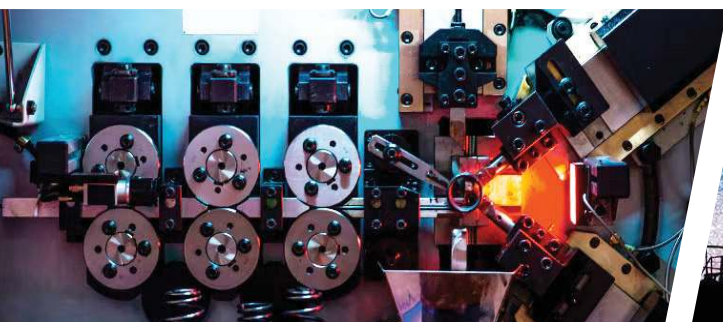


PRODUCT DIRECTORY

Parker Hannifin India Pvt. Ltd.

PHIPL/DOC/008 ,Version 3 ,Edition : 06/25



ENGINEERING YOUR SUCCESS.

Table of Contents

Introduction	01
Motion Systems Group	03
Fluid Connectors Group	57
Filtration Group	88
Engineered Materials Group	176
Instrumentation Group	191
Meggitt	198



Enabling Engineering Breakthroughs that Lead to a Better Tomorrow



ENGINEERING YOUR SUCCESS.

PARKER HANNIFIN CORPORATION THE GLOBAL LEADER

Parker Hannifin is a Fortune 250 global leader in motion and control technologies. For 100 years the company has engineered the success of its customers in a wide range of diversified industrial and aerospace markets.

Parker's engineering expertise and broad range of core technologies like electromechanical, hydraulic and pneumatic with a full complement of fluid handling, filtration, sealing and shielding, adhesives & coatings, climate control, process control and aerospace technologies uniquely positions the company to help solve the world's greatest engineering challenges.

The company partners with its customers to increase their productivity and profitability. With focus primarily on business opportunities in the areas of energy, water, agriculture, environment, defence, life sciences, infrastructure and transportation, Parker has been consistently increasing its presence in these sectors.



Parker Hannifin with \$19.9 Billion in revenue have over 765,000 Products sold to more than 5,48,000 customers. Parker employs approximately 61,000 people worldwide and operates in 43 countries with 18,300 Distribution / MRO outlet serving 1,000 Markets. Traded on the New York Stock Exchange under the symbol Parker is strategically diversified, value-driven and well positioned for global growth as the industry consolidator and supplier of choice. Parker's Win Strategy focuses employees on financial performance, customer service and profitable growth, ensuring our company's continued success.

PARKER HANNIFIN INDIA



Parker in India is headquartered in Navi Mumbai since 1993, has strong footprint with 5 manufacturing units in Navi Mumbai,

Chennai, Nagpur, Hyderabad, Nashik producing quality products from its electromechanical, hydraulic, pneumatic, fluid handling, filtration, sealing & shielding, climate control, process control technologies and Elastomer Adhesives and Coating Solutions.

Parker India with regional sales offices in all metro cities and network of over **120+ distributors** serving customers from Construction, Transportation, Industrial, Defence, Oil & Gas, Power Generation, Mining, Marine, Rail, Agriculture.

Every industry presents challenges, from the demand to

innovate and meet performance standards while complying with environmental regulations to the need to ensure worker safety while containing costs and increasing productivity. While offering engineering and manufacturing leadership, global service and support, component and systems offerings, and collaborative development experience makes Parker your valued partner.

The Win Strategy™

Our Vision: Engineering Your Success

Goals

Engaged People	Customer Experience	Profitable Growth	Financial Performance
STRATEGIES	STRATEGIES	STRATEGIES	STRATEGIES
• Safety #1 • Environment, Social & Governance • Ownership – Entrepreneurial • High Performance Teams & Leaders • Culture of Kaizen	• Quality Solutions On Time • Digital Leadership • Ease of Doing Business	• Strategic Positioning • Market-Driven Innovation • System Solutions • Strong Distribution • Grow Share • Acquisitions	• Simplification • Lean Enterprise • Strategic Supply Chain • Value Pricing

Our Culture & Values



Win Strategy 3.0
July 2024

Competing and winning in today's challenging global markets will require Parker to build on the company's strong foundation while setting a new course with strategies to take performance to the next level. The Win Strategy is built on the established goals of engaged people, premier customer experience, profitable growth and financial performance, and will position Parker to achieve top quartile financial performance among its diversified industrial proxy peer companies.

Winning Together



MOTION SYSTEMS GROUP

Hydraulics

Accumulators - Piston, Bladder and Diaphragm

Piston Accumulators

A Series



- Over 20 standard capacities from 0.1 litres to 76 litres
- 50, 75, 100, 125, 150 and 200 mm nominal bore sizes
- 250 and 350 bar max. working pressures
- Piston speeds up to 4 m/s
- Flow rates up to 5,700 l/min
- Five lobe V - O ring piston seals in five standard seal compounds
- Accumulator and gas bottle configurations
- CE approved to new PED 97/23/EC
- Other approvals available

AP Series



- Over 20 standard capacities from 6 litres to 300 litres
- 180, 250 and 360 mm bore sizes
- 250 and 350 bar maximum working pressures
- High performance sealing systems for piston speeds up to 8 m/s
- Flow rates up to 45,000 l/min
- High flow ports for rapid cycling performance
- Accumulator and gas bottle configurations
- CE approved to new PED 97/23/EC
- Other approvals available

Bladder Accumulators

EHV Series (330 to 690 bar)



- Standard capacities from 0,2 to 57 Litres
- From 330 to 690 bar
- Operating temperature : - 20 °C + 80 °C
- Shell material options include alloyed steel, stainless steel, aluminium, titanium, composites and other internal protections available.
- Various bladder materials available which are compatible with a range of fluids and temperatures.
- CE approved (Meet conformity assessment according to the PED).
- Other approvals available

Diaphragm Accumulators

ELM Series (140 to 350 bar)



- 11 standard capacities from 0.075 to 3,5 Litres
- From 140 to 350 bar
- -20 °C / +80 °C for standard nitrile elastomers for models 0.075 ≥ 1.4 Litres
- -10 °C / +80 °C for standard nitrile elastomers for models ≥ 2 Litres
- -35 °C / +80 °C for hydrin elastomers
- Materials : carbon steel or stainless steel, nitrile or hydrin diaphragm (for other contructions: contact Parker).
- Meet conformity assessment according to the PED (For information about SELO and SELO + CE availability: contact Parker)

Accumulator Accessories

Accumulator Safety Blocks

SB Series / ECA Series



- Protects and isolates any type of accumulator
- Simplifies discharging for routine maintenance
- 350 bar maximum operating pressure
- Available in NG10, NG20 and NG32 series
- User-replaceable, cartridge-type relief valve
- Manually- or electrically-operated discharge valves

Charging Kit and Mounting



- Charging and gauging equipment
- Gauge adapters and assemblies
- Unloading valves
- Mounting clamps and base brackets
- U-Bolt mounting hardware
- Bust discs

Coolers

Air-Oil Coolers

LAC – AC motor



- Cooling capacity up to 300 kW
- Single-phase or three-phase AC motor
- Compact and light weight
- Quiet fan and motor
- Low pressure drop
- High cooling capacity
- Service-friendly, easy to retrofit
- LAC-X for ATEX requirements
- LAC-M for marine environments
- For Power Units
- Lubrication Systems
- Marine Cranes
- Presses
- Wind Power

LOC – circulation pump



- Cooling capacity up to 45 kW
- Integrated circulation pump
- Compact and light weight
- Quiet fan and motor
- Low pressure drop
- High cooling capacity
- Service-friendly, easy to retrofit
- For Power Units
- Lubrication Systems
- Marine Winches
- Presses
- Wind Power

Water-Oil Coolers

PWO – Brazed



- Working pressure 15 bar @ +155 °C
- Maximum working temperature +225 °C
- Cooling capacity up to 500 kW
- Flow range up to 1600 l/min
- Light and compact
- Easy to install
- Cost efficient and environmentally friendly
- Wide range for many applications
- For Power Units
- Lubrication Systems
- Marine Cranes
- Presses
- Wind Power

Cylinders

HMI/HMD



- Tie rod cylinder for heavy duty applications
- Maximum working pressure 210 bar
- Standard bore sizes 25 mm to 200 mm
- Available in any practicable stroke length
- Mounting styles and dimensions to ISO 6020/2 and DIN 24 554
- Up to three rod sizes per bore
- Piston rod diameters 12 mm to 140 mm
- Up to three male and three female rod end threads per bore, plus custom designs
- Up to 12 standard mounting styles
- Detachable gland for easy maintenance
- Parker profiled cushion for increased performance and productivity
- Wide range of mounting accessories
- Single and double rod designs
- Seal types to suit a wide variety of operating environments

2H Series



- Tie rod cylinder for heavy duty applications
- Maximum working pressure 210 bar
- Standard bore sizes 38.1mm to 304.8 mm
- Piston rod diameters 15.9 mm to 215.9 mm
- Rod ends: three standard choices, specials to order
- Available in any practicable stroke length
- 17 standard mounting styles
- Detachable gland for easy maintenance
- Parker profiled cushion for increased performance and productivity

3L Series



- Tie rod cylinder for medium duty applications
- Maximum working pressure 70 bar
- Standard bore sizes 25.4 mm to 203.2 mm
- Rod diameters 12.7 mm to 139.7 mm
- Available in any practicable stroke length
- Rod ends: three standard choices, specials to order
- 15 standard mounting styles
- Detachable gland for easy maintenance
- Parker profiled cushion for increased performance and productivity

HMIX Series



- Cylinders with integral feedback devices designed for use with servo and proportional valves in closed-loop applications
- Maximum working pressures up to 210 bar
- Bolt-on and integral manifolds available
- Full range of transducer types
- Wide range of stroke lengths available
- Simplifies machine design and reduces number of hydraulic lines
- Eliminates need for limit switches, deceleration valves, shock absorbers and mechanical linkages in many applications
- Integrally mounted valves eliminate assembly time and fittings
- Intrinsically safe and explosion proof designs available

MA3/MMB



- Maximum working pressures 250 bar (MA3) and 160 bar (MMB)
- Heavy duty, flanged 'mill' cylinders with bore sizes up to 320 mm
- Fatigue-free at rated pressure
- Mounting styles and dimensions to ISO 6022 (MA3) and ISO 6020/1 (MMB)
- Two rod sizes per bore
- Strokes available in any practical length
- Piston rod diameters up to 220 mm
- Detachable gland for easy maintenance
- Seal types to suit a wide variety of operating environments
- Parker profiled cushions for increased performance and productivity
- Wide range of options including feedback and position sensing

HTR Series



- Rack and pinion rotary actuator provides high power at low rotational speed
- Gearing and cylinders self-contained and protected against contamination
- Standard and custom rotations available
- Full range of options

HTR Series	Pressure bar (psi)	Displacement cm³/rad (in³/rad)	Torque Newton Meter (lb-in)
.9	207 (3000)	6 (0.36)	102 (900)
1.8	207 (3000)	12 (0.7)	203 (1800)
3.7	207 (3000)	25 (1.5)	418 (3700)
5	207 (3000)	33 (2.0)	565 (5000)
7.5	207 (3000)	51 (3.1)	847 (7500)
10	207 (3000)	65 (4.0)	1130 (10,000)
15	207 (3000)	93 (5.7)	1695 (15,000)
22	138 (2000)	145 (8.8)	1695 (15,000)
30	207 (3000)	186 (11.3)	3390 (30,000)
45	138 (2000)	290 (17.7)	3390 (30,000)
75	207 (3000)	480 (29.3)	8474 (75,000)
150	207 (3000)	960 (58.6)	16,948 (150,000)
300	207 (3000)	1856 (113.3)	33,896 (300,000)
600	207 (3000)	3701 (226.0)	67,791 (600,000)

LTR Series



- Rotary actuator for low pressure applications
- Rack and pinion gearing with lightweight aluminum housing
- Three positions of rotation
- Full range of options

LTR Series	Pressure bar (psi)	Displacement cm ³ /rad (in ³ /rad)	Torque Newton Meter (lb-in)
101	102 (1500)	7 (0.40)	67 (592)
102	68 (1000)	13 (0.80)	67 (592)
151	102 (1500)	20 (1.20)	200 (1770)
152	102 (1500)	39 (2.41)	399 (3530)
201	102 (1500)	46 (2.81)	479 (4240)
251	102 (1500)	70 (4.30)	728 (6443)
202	102 (1500)	93 (5.67)	957 (8470)
252	102 (1500)	141 (8.59)	1456 (12,885)
321	68 (1000)	187 (11.40)	1289 (11,407)
322	68 (1000)	374 (22.80)	2578 (22,813)

Compact EHA



- Compact, free-standing actuator for high power density applications
- Provides a complete actuation system for space critical industrial, mobile and remote use
- Eliminates need for separate pump, tank, hoses, valves and actuator
- Max. force, extension - 21.3kN
- Max. force, retraction - 16.0kN
- Max. speed - 84mm/s (no load)
- Standard stroke lengths - 102 mm, 152 mm, 203 mm
- Mounting pin diameters - 6.4 mm, 9.5 mm, 12.7 mm
- Motor Options - 12V DC, 245W or 560W; 24V DC, 245W or 560W

Motors -Fixed Displacement

Gerotor

TE



TF



TG

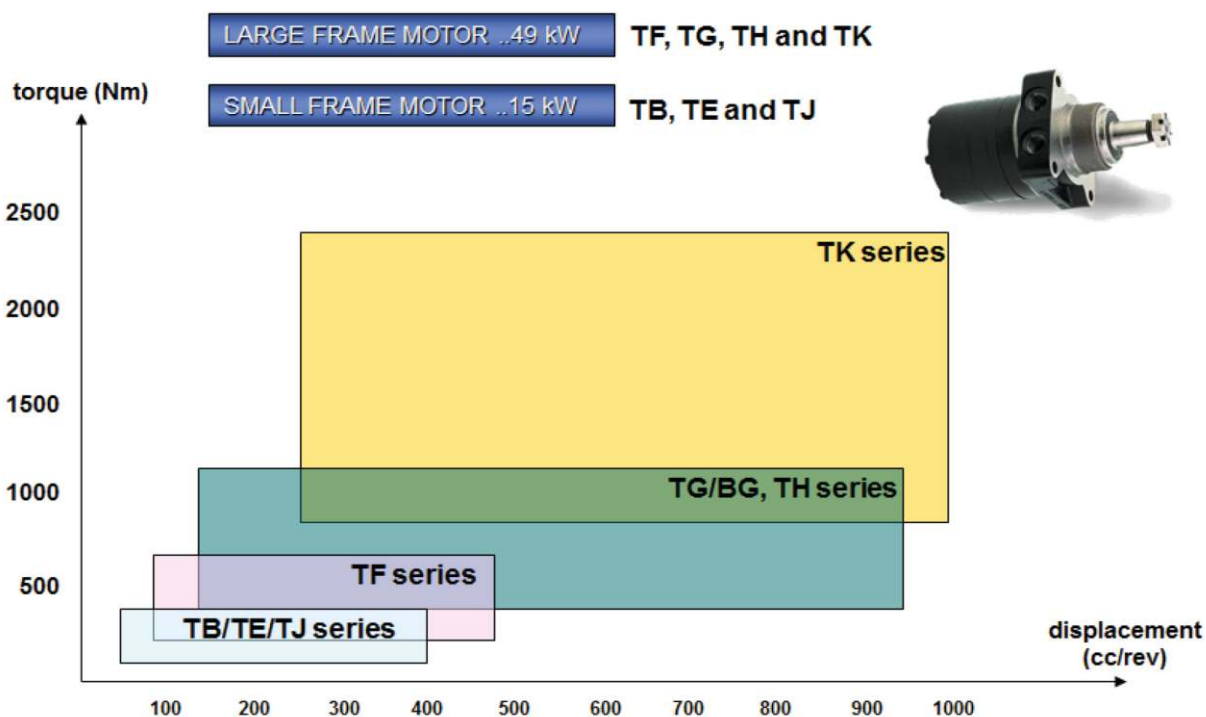


TH



- High volumetric efficiency
- Full flow spline cooling
- High pressure shaft seal / no drainline
- High flow shaft seal cooling
- High starting torque
- High side load capacity
- Long life
- Balanced performance in both directions of rotation (TE)
- Very compact design (TL)

TL



Frame size TE	0036	0045	0050	0065	0080	0100	0130	0165	0195	0230	0260	0295	0330	0365	0390
Displacement (cm ³ /rev)	36	41	49	65	82	98	130	163	195	228	260	293	328	370	392
Max cont pressure (bar)	140	140	140	140	140	140	140	140	140	120	110	100	100	95	85
Max operating speed (rpm)	1141	1024	1020	877	695	582	438	348	292	328	287	256	228	203	191
Max cont output torque (Nm)	55	71	90	125	160	190	255	310	390	380	400	428	443	467	445
Weight (kg)	6.7	6.8	6.9	7.0	7.1	7.2	7.6	7.8	8.1	8.3	8.6	8.8	9.1	9.4	9.6

Frame size TF	0080	0100	0130	0140	0170	0195	0240	0280	0360	0405	0475
Displacement (cm ³ /rev)	81	100	128	141	169	197	238	280	364	405	477
Max cont pressure (bar)	207	155	138	138	138	138	138	138	130	128	113
Max operating speed (rpm)	693	749	583	530	444	381	394	334	258	231	195
Max cont output torque (Nm)	220	195	230	255	315	365	425	510	595	655	680
Weight (kg)	14.0	14.0	14.2	14.3	14.6	14.9	15.3	15.6	16.3	17.0	17.5

Frame size TL	0140	0170	0195	0240	0280	0310	0360
Displacement (cm ³ /rev)	140	169	195	238	280	310	364
Max cont pressure (bar)	190	190	190	190	190	190	172
Max operating speed (rpm)	613	512	484	399	335	310	255
Max cont output torque (Nm)	364	449	511	620	730	847	890
Weight (kg)	10.9	11.1	11.4	11.8	12.2	12.4	12.9

Frame size TG	0140	0170	0195	0240	0280	0310	0335	0405	0475	0530	0625	0785	0960
Displacement (cm ³ /rev)	141	169	195	238	280	310	337	405	477	528	623	786	959
Max cont pressure (bar)	207	207	207	207	207	207	207	172	138	138	121	103	69
Max operating speed (rpm)	660	554	477	393	334	303	277	232	237	213	182	143	118
Max cont output torque (Nm)	390	475	555	675	795	924	965	940	885	980	985	1045	775
Weight (kg)	14.6	14.8	15.1	15.5	15.9	16.1	16.3	16.9	17.5	18.3	19.0	20.5	22.2

Frame size TH	0140	0170	0195	0240	0280	0310	0335	0405	0475	0530	0625	0785	0960
Displacement (cm ³ /rev)	141	169	195	238	280	310	337	405	477	528	623	786	959
Max cont pressure (bar)	207	207	207	207	207	207	207	172	138	138	121	103	69
Max operating speed (rpm)	660	554	477	393	334	303	277	232	237	213	182	143	118
Max cont output torque (Nm)	390	475	555	675	795	924	965	940	885	980	985	1045	775
Weight (kg)	16.9	17.2	17.4	17.8	18.2	18.4	18.6	19.2	19.8	20.6	21.3	22.9	24.5

TK



- High volumetric efficiency
- Flow through internal spline and shaft seal cooling
- High pressure shaft seal / no drainline
- High starting torque
- High side load capacity
- Long life

Frame size TK	0250	0315	0400	0500	0630	0800	1000
Displacement (cm ³ /rev)	250	315	400	500	630	800	1000
Max cont pressure (bar)	241	241	207	207	207	190	172
Max operating speed (rpm)	523	413	373	298	237	276	218
Max cont output torque (Nm)	814	1029	1153	1439	1617	1916	2413
Weight (kg)	30.8	31.4	32.3	33.2	34.5	36.0	37.9

Pumps - Fixed Displacement

Gear

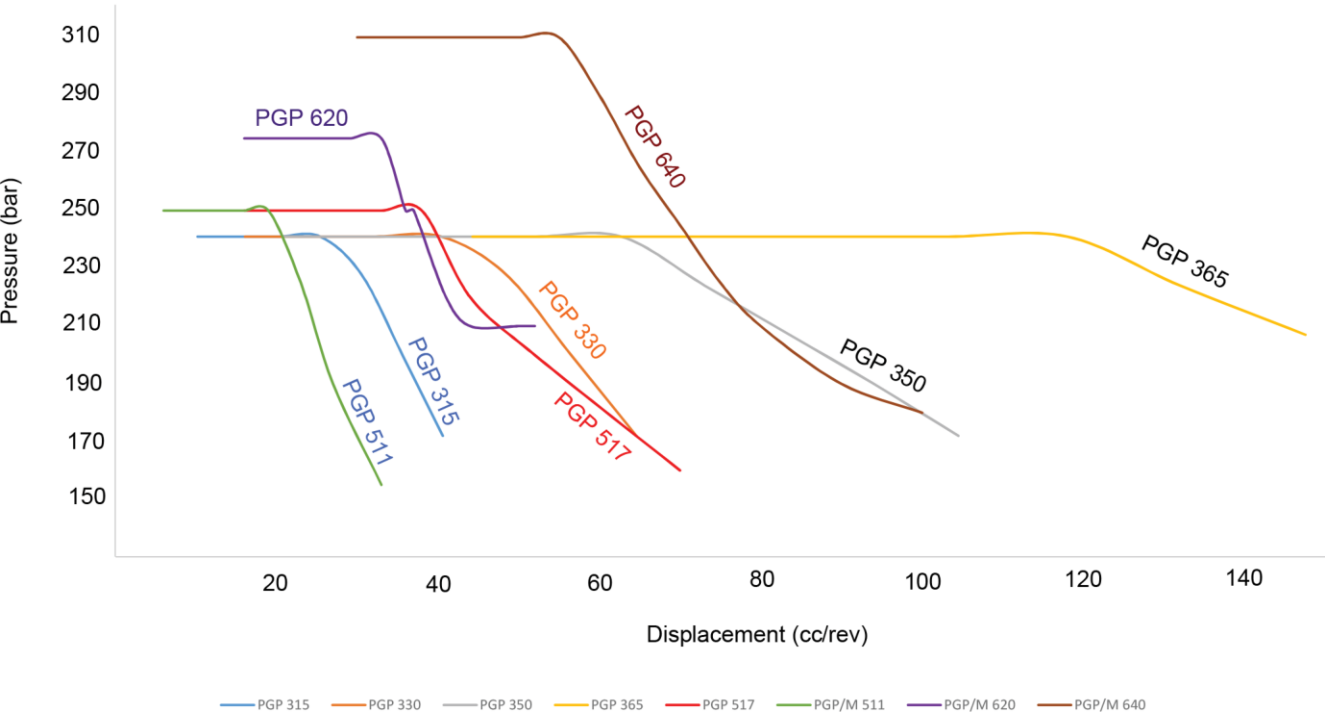
PGP 500, 600



- Superior performance
- High efficiency
- Low noise operation at high operating pressures
- International mounts and connections
- Integrated valve capabilities
- Common inlet multiple pump configurations

Displacement (ccm)	CAST IRON				ALUMINIUM			
	PGP 300		PGP 600		PGP 500			
0 - 10								
20	PGP 315			PGP/M 620		PGP/M 511		
30								
40		PGP 330						
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Pressure Vs Displacement



Frame size PGP 511	0060	0080	0100	0110	0140	0160	0190	0230	0270	0310	0330	
Displacement (cm ³ /rev)	6	8	10	11	14	16	19	23	27	31	33	
Max cont pressure (bar)	250	250	250	250	250	250	250	225	190	165	155	
Max operating speed (rpm)	3500	3500	3500	3500	3500	3500	3250	2750	2350	2100	2000	
Input power (kW)	4.5	6.0	7.5	8.3	10.5	12.0	14.3	14.7	14.9	16.7	17.3	
Weight (kg)	3.40	3.47	3.55	3.57	3.71	3.79	3.91	4.06	4.21	4.37	4.45	

Frame size PGP 517	0140	0160	0190	0230	0250	0280	0330	0380	0440	0520	0700	
Displacement (cm ³ /rev)	14	16	19	23	25	28	33	38	44	52	70	
Max cont pressure (bar)	250	250	250	250	250	250	250	250	220	200	160	
Max operating speed (rpm)	3400	3400	3300	3300	3100	3100	3000	3000	2800	2700	2400	
Input power (kW)	9.6	11.0	13.1	15.8	17.2	19.3	22.7	26.1	27.0	28.6	31.2	
Weight (kg)	7.92	8.00	8.12	8.29	8.37	8.50	8.70	8.91	9.16	9.49	10.24	

Frame size PGP 620	0160	0190	0210	0230	0260	0290	0330	0360	0410	0440	0460	0500	0520
Displacement (cm ³ /rev)	16.0	19.0	21.0	23.0	26.0	29.0	33.0	36.0	41.0	44.0	46.0	50.0	52.0
Max cont pressure (bar)	275	275	275	275	275	275	275	250	220	210	210	210	210
Max operating speed [rpm]	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3000	3000
Weight (kg)	12.0	12.1	12.1	12.2	12.3	12.6	12.7	12.8	13.0	13.1	13.2	13.3	13.4

Frame size PGP 640	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	
Displacement (cm ³ /rev)	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	
Max cont pressure (bar)	310	310	310	310	310	310	290	265	245	225	210	
Max operating speed [rpm]	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
Weight (kg)	21.0	21.0	22.0	22.0	23.0	23.0	24.0	24.0	25.0	25.0	25.0	

Vane

DENISON®

Single



- 320 bar max pressure for T7B, 300 bar for T7AS* & T7D, 275 bar for T6C & 240 bar for T7E
- Silent technology even under high pressure
- Wide range of displacements
- User friendly = easy conversions & evolutions
- Wide number of shafts available (SAE & ISO)
- Rear drive train options available (SAE A, SAE B or SAE C)

Frame size T7AS*	B06	B10	B11	B13	B17	B20	B22	B25	B26	B28	B30	B32	B34	B36	B40
Displacement (cm ³ /rev)	5.8	9.8	11.0	12.8	17.2	19.8	22.5	24.9	26.0	28.0	30.0	31.8	34.0	36.0	40.0
Max cont pressure (bar)	275	275	275	275	275	275	275	240	275	275	275	275	240	240	240
Max int pressure (bar)	300	300	300	300	300	300	300	275	300	300	300	300	280	280	280
Max operating speed ¹ (rpm)	3600	3600	3600	3600	3600	3600	3600	3000	3600	3600	3600	3600	3000	3000	3000
Input power ² (kW)	6.0	9.0	9.9	11.3	14.6	16.5	18.6	20.4	20.6	22.1	23.6	25.0	26.6	28.1	31.1
Weight (kg)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.3	11.3	11.3	11.3	11.3	11.3	11.3

Frame size T7B	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B14	B15
Displacement (cm ³ /rev)	5.8	9.8	12.8	15.9	19.8	22.5	24.9	28.0	21.8	35.0	41.0	45.0	50.0
Max cont pressure (bar)	290	290	290	290	290	290	290	290	290	275	275	275	240
Max int pressure (bar)	320	320	320	320	320	320	320	320	320	300	300	300	280
Max operating speed ¹ (rpm)	3600	3600	3600	3600	3600	3600	3600	3600	3600	3000	3000	3000	3000
Input power ² (kW)	5.4	8.6	11.0	13.5	16.6	18.8	20.7	23.2	26.2	27.0 ⁴	31.5 ⁴	34.5 ⁴	35.7 ⁹
Weight (kg)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0

Frame size T6C	003	005	006	008	010	012	014	017	020	022	025	028	031
Displacement (cm ³ /rev)	10.8	17.2	21.3	26.4	34.1	37.1	46.0	58.3	63.8	70.3	79.3	88.8	100.0
Max cont pressure (bar)	240	240	240	240	240	240	240	240	240	240	240	160	160
Max int pressure (bar)	275	275	275	275	275	275	275	275	275	275	275	210	210
Max operating speed ¹ (rpm)	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2500	2500	2500
Input power ² (kW)	5.3 ⁴	12.2	14.7	17.7	22.3	24.1	29.5	36.9	40.2	44.1	49.5	48.5 ⁶	54.4 ⁶
Weight (kg)	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7

Frame size T7D	B14	B17	B20	B22	B24	B28	B31	B35	B38	B42	B45	B50
Displacement (cm ³ /rev)	44.0	55.0	66.0	70.3	79.5	89.7	98.3	111.0	120.3	136.0	145.7	158.0
Max cont pressure (bar)	250	250	250	250	250	250	250	250	250	230	210	160
Max int pressure (bar)	300	300	300	300	300	300	300	280	280	260	260	210
Max operating speed ¹ (rpm)	3000	3000	3000	3000	3000	3000	3000	2800	2800	2500	2200	2200
Input power ² (kW)	34.2	42.4	50.7	53.9	62.0	68.7	75.6	80.5 ⁹	85.6 ⁹	90.5 ⁸	89.5 ⁷	85.0 ⁶
Weight (kg)	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0

Frame size T7E	042	045	050	052	054	057	062	066	072	085	
Displacement (cm ³ /rev)	132.3	142.4	158.5	164.8	171.0	183.3	196.7	213.3	227.1	268.7	
Max cont pressure (bar)	210	210	210	210	210	210	210	210	210	75	
Max int pressure (bar)	240	240	240	240	240	240	240	240	240	90	
Max operating speed ¹ (rpm)	2200	2200	2200	2200	2200	2200	2200	2200	2200	2000	
Input power ² (kW)	82.6	88.7	98.3	102.1	105.8	113.2	121.3	131.2	139.5	65.8 ¹⁰	
Weight (kg)	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	

1) Shaft speed for petroleum based fluids. For higher speeds, please contact Parker

2) 1500 rpm, TB at 175 bar, T7B at 320 bar, T7AS* & T7D at 300 bar & T6C & T7E at 240 bar

3) 275 bar max 4) 300 bar max 5) 140 bar max 6) 210 bar max 7) 240 bar max 8) 260 bar max 9) 280 bar max 10) 90 bar max

- CE pumps: for variable speed applications = Highly dynamic systems driven by brushless motors

- T7AS and ASW: E06 to E40

- T7B: E03 to E15

- T7D: E14 to E42

Double



- Very low noise
- SAE or ISO standards
- One piece shaft (no internal torque limitations)
- Single inlet
- 32 porting orientations available, 16 different double pump frames
- 1443 displacement possibility (from 5.8 to 268.7 cm³/rev) with a max displacement of 537.4 cm³/rev
- Displacement combinations with above T7B – T6C – T7D & T7E
- High power to weight ratio
- Wide range of options available = different shafts, threads, pilots

Triple



- Very low noise
- Single common inlet
- 128 porting orientations available
- 15260 displacement combinations (from 5.8 to 268.7 cm³/rev) with a max displacement of 638 cm³/rev
- One piece shaft (no internal torque limitation)
- High power to weight ratio
- 15 different triple pump frames available

Example Model	Displacement (cc/rev)	Max Pressure (Bar)	Speed (RPM)
	no. of cam ring displacements ()	Cont / Int	Min/ Max
T7BB	5.8 - 31.8 (9)	290 / 320	600 / 3600
	35.0 - 45 (3)	275 / 300	600 / 3000
	50	240 / 280	600 / 3000
T6CC	10.8 – 70.3 (10)	240 / 275	600 / 2800
	79.3	240 / 275	600 / 2500
	88.8 - 100 (2)	160 / 210	600 / 2500
T7DD	44.0 - 99.2 (7)	250 / 250	600 / 3000
	113.4 - 120.6 (2)	250 / 250	600 / 2800
	137.5	230 / 250	600 / 2500
	145.7*	210 / 240	600 / 2200
	158.0*	160 / 210	600 / 2200
T7EE	132.3 - 227.1 (9)	210 / 240	600 / 2200
	268.7	75 / 90	600 / 2000

Model	Displacement (cc/rev)	Max Pressure (Bar)	Speed (RPM)
	no. of cam ring displacements ()	Cont / Int	Min / Max
T67DBB	5.8 - 31.8 (9)	290/320	600/3600
	35.0 - 45 (3)	275/300	600/3000
	50	240/280	600/3000
T67DCC	10.8 - 70.3 (10)	240/275	600/2800
	79.3	240/275	600/2500
	88.8 - 100 (2)	160/210	600/2500
T7DDC	44.0 - 99.2 (7)	250/250	600/3000
	113.4 - 120.6 (2)	250/250	600/2800
	137.5	230/250	600/2500
	145.7*	210/240	600/2200
	458.0*	160/210	600/2200
T67EDC	132.3 - 227.1 (9)	210/240	600/2200
	268.7	75/90	600/2000

Pumps Vane

SDV Single



The SDV Series includes fixed displacement vane pump ideal for low to mid pressure applications. Their compact design and low noise features make them well suited for filter carts, test stands and remote pilot pumps.

- Two compact frame sizes
- Low noise
- 100% tested
- Easy to convert or repair

Series SDV10	-1	-2	-3	-4	-5	-6	-7
Displacement (cm ³ /rev) (in ³ /rev)	3.3 0.2	6.6 0.4	9.8 0.6	13.1 0.8	16.4 1.0	19.5 1.2	22.8 1.4
Max continuous pressure (bar) (psi)	175 2500	175 2500	175 2500	175 2500	175 2500	150 2200	140 2000
Max speed (RPM)	1800	1800	1800	1800	1800	1800	1800

Series SDV20	-6	-7	-8	-9	-11	-12	-13
Displacement (cm ³ /rev) (in ³ /rev)	19.5 1.2	22.8 1.4	26.5 1.6	29.7 1.8	36.4 2.2	39.0 2.4	42.4 2.6
Max continuous pressure (bar) (psi)	175 2500	175 2500	175 2500	175 2500	175 2500	150 2200	150 2200
Max speed (RPM)	1800	1800	1800	1800	1800	1800	1800

SDV Double



The SDV Series includes fixed displacement vane pumps ideal for low to mid-pressure applications. A double pump provides the flexibility of two different displacements within one housing. Compact design and low-noise features make them well suited for filter carts, test

stands, remote pilot pumps and for hi/lo circuits.

- Two compact frame sizes
- Low noise
- 100% tested
- Easy to convert or repair

Series SDV2010	-7	-8	-9	-11	-12	-13
Displacement* (cm ³ /rev) (in ³ /rev)	26.1 - 45.6 1.6 - 2.8	29.8 - 49.3 1.8 - 3.0	33.0 - 52.5 2.0 - 3.2	39.7 - 59.2 2.4 - 3.6	42.3 - 61.8 2.6 - 3.8	45.7 - 65.2 2.8 - 4.0
Max continuous pressure (bar) (psi)	175 2500	175 2500	175 2500	175 2500	150 2200	150 2200
Max speed (RPM)	1800	1800	1800	1800	1800	1800

*Range calculated by adding displacement for SDV20 to range of displacements for SDV10.

Series SDV2020	-7	-8	-9	-11	-12	-13
Displacement* (cm ³ /rev) (in ³ /rev)	42.3 - 52.5 2.6 - 3.2	46.0 - 56.2 2.8 - 3.4	49.2 - 59.4 3.0 - 3.6	55.9 - 72.8 3.4 - 4.4	58.5 - 75.4 3.6 - 4.6	61.9 - 78.8 3.8 - 4.8
Max continuous pressure (bar) (psi)	175 2500	175 2500	175 2500	175 2500	150 2200	150 2200
Max speed (RPM)	1800	1800	1800	1800	1800	1800

*Range calculated by adding displacement for SDV20 (shaft end) to range of SDV20 (cover end).

Axial Piston

F10 Series (Pumps/Motors)



F10 is a bent-axis, fixed displacement motor/pump. It can be used in numerous applications in both open and closed loop circuits.

- Max intermittent pressure up to 350 bar and continuous operating pressure up to 300 bar
- The 7 piston design provides high start-up torque and smooth motor operation
- ISO, Cartridge and SAE versions

Frame size F10	30	37	56	80	90	107	125	
Displacement (cm ³ /rev)	30	37	54.4	78.6	93.0	104.0	125.0	
max continuous (bar)	300	300	300	300	300	300	300	
Max operating Continuous	4900	4400	3800	3500	3400	3200	2800	
Weight (kg)	11.5	11.5	15.7	18.6	25.7	25.7	33.0	

F11 Series (Pumps/Motors)



- Pressures up to 420 bar
- High overall efficiency (low losses)
- Accept high external shaft loads
- Good resistance to vibrations and temperature shocks
- Proven reliability
- Easy to service
- CETOP, ISO and SAE versions available

Frame size F11	05	10	12	14	19	
Displacement (cm ³ /rev)	4.9	9.8	12.5	14.3	19.0	
Max cont pressure (bar)	350	350	350	350	350	
Max operating speed (rpm)	4600	4200	4000	3900	3500	
Weight (kg)	5	7.5	8.2	8.3	11	

F12 Series (Pumps/Motors)



- Pressures up to 480 bar
- Very high power capability
- High overall efficiency
- Small envelope size
- ISO, SAE and cartridge versions available
- Proven reliability
- Easy to service

Frame size F12	30	40	60	80	90	110	125	150	250	
Displacement (cm ³ /rev)	30.0	40.0	59.8	80.4	93.0	110.1	125	150.0	242.0	
Max cont pressure (bar)	420	420	420	420	350	420	420	350	350	
Max operating speed (rpm)	3150	2870	2500	2300	2300	2200	2100	1700	1500	
Weight (kg)	12	16.5	21	26	26	36	36	70	77	

Axial Piston Motor (Variable Displacement)

V12 Series



- Very high operating speeds
- Displacement ratio 5:1
- Pressures up to 480 bar
- Very high power capability
- High starting torque
- Low weight
- High overall efficiency
- Axial or side ports
- Controls available for most needs
- ISO, SAE and cartridge versions

Frame size V12	60	80
Displacement max at 35° (cm³/rev)	60	80
Displacement min at 6.5° (cm³/rev)	12	16
Max cont pressure (bar)	420	420
Max operating speed (rpm)	7000	6250
Corner power cont (kW)	235	280
Weight (kg)	28	33

V14 Series



- Very high operating speeds
- Displacement ratio 5:1
- Pressures up to 480 bar
- Very high power capability
- Good control characteristics
- Smooth operation also at creep speed
- High overall and starting torque efficiency
- Compact design
- Low noise level
- ISO, SAE and cartridge versions

Frame size V14	110	160
Displacement max at 35° (cm³/rev)	110	160
Displacement min at 6.5° (cm³/rev)	22	32
Max cont pressure (bar)	420	420
Max operating speed (rpm)	5700	5000
Corner power cont (kW)	440	560
Weight (kg)	54	68

V16 Series



V16 Displacement 220/270 cc

"The fastest in the World"

- Best in the world speed capability allows the customer to increase their production
- Smooth, fast and accurate control thanks to our new design gives outstanding maneuverability
- Zero displacement capability in combination with world class efficiency gives superior fuel economy and less CO2-emissions
- The bent-axis design gives a robust and reliable motor that withstand pressures up to 550 bar

Frame size V16	220	270
Displacement max at 35° (cm³/rev)	220	270
Displacement min at 6.5° (cm³/rev)	40	49
Max cont pressure (bar)	450	450
Max operating speed (rpm)	2950/4950/5550	2950/4600/5000
Corner power cont (kW)	488	555
Weight (kg)	90	93

Pumps -Variable Displacement

P1M Series



P1M Series delivers higher speeds and efficiency that increases machine productivity, reduces costs, and extends pump life in a robust, compact envelope.

- Patented inlet design increases speed ratings and fill capabilities while reducing erosion, cavitation, & pressure ripples.
- Compact package allows fit into tighter spaces.
- Best-in-class power density due to higher pressure ratings, speeds, and efficiency
- Fast response EDC for increased productivity
- Nine piston design reduces pressure ripples
- Optional dual shaft seals for wet PTO mounting for all sizes

Technical Specifications

	Units	28cc	45cc	54cc	65cc	85cc
Displacement	cc/rev (in3/rev)	28 (1.71)	45 (2.75)	54 (3.29)	65 (3.97)	85 (5.19)
Maximum Continuous Pressure	bar (psi)	280 (4060)	280 (4060)	250 (3625)	280 (4060)	280 (4060)
Maximum Speed (at 1 bar abs inlet pressure)	rpm	3300	3000	2900	2800	2700
Weight (non-thru drive)	kg (lbs)	16.8 (37)	20.5 (45)	21.3 (47)	28.2 (62)	30.1 (66)
Weight (thru drive)	kg (lbs)	21.3 (47)	25.9 (57)	26.8 (59)	32.3 (71)	35.2 (77)
Maximum Case Pressure	bar (psi)	2.0 (29) or 0.5 (7.3) above inlet				
Fluid Temperature Range	C (F)	-40 to 95 (-40 to 203)				
Fluid Viscosity Continuous Range	cSt	7 to 160				
Maximum Fluid Viscosity	cSt	5000 (cold start only)				
Minimum Intermittent Fluid Viscosity	cSt	6 (less than 1% of duty cycle)				

PV Series



- High strength cast iron housing
- Modular controls concepts
- Large servo pistons for fast response
- Thru-drive for 100 % nominal torque
- 9 piston design
- Multiple pressure control
- SAE and metric mounting features
- Reduced flow and pressure ripple
- Service-friendly

Frame size PV	16	20	23	28	32	40	46	63	80	92	140	180	270	360
Displacement (cm ³ /rev)	16	20	23	28	32	40	46	63	80	92	140	180	270	360
Max cont pressure (bar)	350	350	350	350	350	350	350	350	350	350	350	350	350	420
Max operating speed (rpm)	3000	3000	3000	3000	2800	2800	2800	2800	2500	2300	2400	2200	1800	1750
Input power (kW)	15.5	19.5	22.5	24.5	31	39	45	61.5	78	89.5	136	175	263	350
Weight (kg)	19	19	19	19	30	30	30	60	60	60	90	90	172	180

PD Series



- Compact overall package size for easy installation
- wide range of hydromechanic and electronic control solutions
- open loop 100% overcenter available (60cc and above) for pump controlled actuation
- Quiet operation (9 piston design, ripple chamber)
- SAE and metric mounting features
- High flexibility by various thru drive options
- Service friendly

Frame size PD	018	028	045	060	075	100	140
Displacement (cm ³ /rev)	18	28	45	60	75	100	140
Max cont pressure (bar)	280	280	280	280	280	280	280
Max operating speed (rpm)	3300	3200	2800	2500	2400	2100	2100
Weight (kg)	14	18	24	30	31	53	67

P2



The P2 Series is a variable displacement piston pump intended for mobile applications, featuring a very compact design, low noise level and low pressure ripple. Stable and quick to respond to system demands, the P2 is designed for cost-effective

installation within the limited space available on modern mobile machines.

- Sealed shaft bearing
- High self-priming speed
- Flexible, reliable, service friendly

Frame size P2	-060	-075	-105	-145
Displacement (cm ³ /rev) (in ³ /rev)	60 3.7	75 4.6	105 6.4	145 8.8
Max continuous pressure (bar) (psi)	317 4600	317 4600	317 4600	317 4600
Self priming speed @ 1 bar inlet pressure	2800	2500	2300	2200

P3



P3 piston pumps are ideal for mobile applications that require high self-priming speed and operating pressure up to 4600 psi. These high performance pumps are suited for mobile applications where inlet fill characteristics are not ideal; i.e. high

altitudes, long inlet lines, cold weather and high pump drive speeds.

- Sealed shaft bearing
- Compact packaging
- Low noise level
- Easy to install
- Flexible, reliable, service friendly

Frame size P3	-075	-105	-145
Displacement (cm ³ /rev) (in ³ /rev)	75 4.6	105 6.4	145 8.8
Max continuous pressure (bar) (psi)	317 4600	317 4600	317 4600
Self priming speed @ 1 bar inlet pressure	3000	2600	2500

Hydrostatic Transmission

Gold Cup



The Gold Cup Hydrostatic Transmission pumps are variable displacement piston pumps of an unparalleled rugged design. Rated to 5000 psi continuous pressure and continuous duty, the Gold Cup design has the unique feature of an internal servo/replenish and the ability to utilize system over pressure to directly control the stroking chambers. This affords the fastest and most stable control strategy available.

The controls are completely modular in design and can be configured to meet most system requirements with standard factory options.

All internal wear surfaces are hydrostatically balanced and/or hydraulically linked allowing for a long and serviceable life. The Gold Cup pump also has the ability to run in many open loop applications and

also has digital (flow/pressure) capability for the most difficult of control requirements.

The Gold Cup Series has been designed to operate in a wide range of industries needing closed-loop control, high pressure, high power density such as blast hole drill rigs, shredding, cranes, mining, hydraulic test stands, pulp and paper, military, marine and power generation.

- Quick change valve block – easy to service or replace
- Modular controls – easy to service and change
- Versatile controls – can be located on either side of pump or motor for maximum freedom of design
- Dampened low inertia rocker cam – more stable, quieter and faster than other designs
- Exclusive zero-backlash rotary servo design – lifetime accuracy
- Field adjustable compensator override – easily adjusted without removing from machinery
- Precision barrel bearing, a distinctive Parker Denison Hydraulics feature for over 30 years – permits high speeds, high pressure and provides long life
- Patented ring style replenishing checks – fastest operation with no sliding poppets or parts and low pressure drop
- Hot oil shuttle available – fast, reliable operation
- Auxiliary pump can be changed without disassembling the transmission
- Standard SAE keyed or splined drive shafts are available
- High pressure mechanical shaft seals can be changed without disassembling the transmission. Double lip seals are also available
- One piece stroking vane/cam means no lost motion, zero backlash, better control, and no linkages to wear out
- Stroking vane seals are pressure loaded for longer life
- Standard compensator vent ports allow for a wide variety of controls (see applications manual)
- Rocker cam displacement indicator helps troubleshoot the system
- Modulated servo pressure saves power
- Standard Code 62 SAE split flange connections
- Conforms to SAE mounting standards. These products are qualified to meet Military specifications MIL-P-17869A and MIL-S-901-C Grade A
- Fastest compensator response: Gives maximum of 10% pressure overshoot at rated conditions (guaranteed times under all conditions; faster response times possible depending upon application)

Frame Size P/M	6	7	8	11	14	24	30
Displacement (cm ³ /rev) (in ³ /rev)	98.3 6	118.8 7.25	131.1 8	180.3 11	229.5 14	403.2 24.6	501.5 30.6
Max continuous pressure (bar) (psi)	350 5000	350 5000	350 5000	350 5000	350 5000	350* 5000*	350* 5000*
Max intermittent pressure** (bar) (psi)	420 6000	420 6000	350 5000	420 6000	420 6000	350* 5000*	350* 5000*
Max rated drive speed (RPM)	3000	3000	2700	2400	2400	2100	1800

*Variable speed. Higher servo pressure may be required.

**10% of operating time, not exceeding 6 successive seconds.

Hydraulic Valves

Directional Control Valves



- NFPA manifold mounted
- Rugged spools with four control lands; up to 21 spool styles available depending on operator
- Solenoid, lever, cam, air or oil pilot operated
- Soft-shift available on D1 and D3 solenoid operated valves
- Low pressure drop
- Phosphate finish body
- Easy access mounting bolts

Series	D1SE	D1V	D3V	D31V	D41V	D91V	D111V
Maximum flow* (LPM) (GPM)	20 4	83 22	150 40	175 45	2000 528	622 180	300 79
Max operating pressure (bar) (psi)	350 5075	345 5000	345 5000	345 5000	350 5075	345 5000	350 5075
Mounting style (NFPA) (CETOP) (NG)	D03 3 6	D03 3 6	D05 5 10	D05H 5H -	D10 10 32	D08 8 25	D07 7 16

*Depending on spool

Sandwich Valves – Manapak



- Mounted between directional control valves and their mounting surface
- Steel bodies and internal hardened steel components for strength and durability

Series	CM	CPOM	FM	PRDM	PRM	RM
Type	Check	P.O. Check	Flow control	Direct operating pressure reducing	Pressure reducing	Pressure relief
Maximum flow LPM (GPM) D03 Mounting, Size 2 D05 Mounting, Size 3 D08 Mounting, Size 6	76 (20) 113 (30) 340 (90)	53 (14) 76 (20) 227 (60)	76 (20) 113 (30) 340 (90)	151 (40) 303 (80)	64 (17) 189 (50)	53 (14) 76 (20) 340 (90)
Max optional pressure: (bar) (psi)	345 5000	345 5000	345 5000	315 4568	345 5000	345 5000

Pressure Valves



- Manifold, inline, SAE flange or DIN cartridge
- 350 bar operating pressure
- Functions include relief, pressure reducing and sequence, and unloading

Colorflow Valves



- Inline mounted flow, check, needle, gauge isolator and snubber valves
- Flow controls available in pressure compensated models
- Sizes 1/4" to 2"
- Choice of NPTF, SAE, BSPP and ISO 6149 metric ports
- Maximum operating pressures up to 350 bar
- Flows up to 250 l/min
- Steel bodies; some models also available with brass or stainless steel

Proportional Control Valves



- Maximum operating pressures to 350 bar
- On-board and remote electronics available
- Zero lap servo spools offered for closed loop applications
- Explosion proof models available (ATEX CE II 2 G)

Proportional Directional Control	Series	Direct Operated		Pilot Operated				Spool Feedback	Integrated Electronics
Size: NG		06	10	16	25	32			
Size: ISO/CETOP		03	05	07	08	10			
Std. performance	D*FB	X	X						optional
	D*FB CANopen	X	X						optional
	D*1FB			X	X	X			optional
	D1FV	X							optional
High reproducibility	D*1FC			X	X	X	X		X
VCD performance / Servo performance	D1FP	X						X	X
	D3FP		X					X	X
	D30FP			X				X	X
	D*1FP			X	X	X	X	X	X
	D*1FE			X	X	X	X	X	X

Proportional Directional Control	Series	Direct Operated		Pilot Operated				Integrated Electronics	
Size: NG		06	06	10	25	32			
Size: ISO/CETOP		03	03	05	08	10			
Proportional relief	RE06*T	X							X
	RE06*W	X							
	R4V/R6V OBE			X	X	X			X
	R4V/R6V			X	X	X			
Proportional reducing	R4R			X	X	X			X
	R4R P2			X	X	X			
3-Way proportional reducing	VMY		X	X					X

DIN Cartridge Proportional Control	Series	Pilot Operated									Spool Feedback	Integrated Electronics
Size: NG		16	25	32	40	50	63	80	100	125		
Std. performance	TDA	X	X	X	X	X	X	X	X	X		
Standard performance	TEA			X	X	X	X	X	X	X		
2-way standard performance	TDW		X	X	X	X	X	X	X	X		
2-way servo performance	TDP		X	X	X	X	X	X	X	X	X	X
2-way servo performance	TEP		X	X	X	X	X	X	X	X	X	X
3-way servo performance	TPQ		X	X	X	X	X	X	X	X	X	X

Electronics



- Valve drivers provide ramping, set-points and deadband compensation
- Feedback amplifiers provide advantages of closed loop control
- Power supplies for a variety of valve applications
- DIN card holders

Drivers – Proportional Directional Valves		
Series	Description	Use with
PWDXXA-400	Programmable, Feedback, Min, Max	Driving Open loop valves with external feedback. (Future: D**FS, D*FC, RLL*R)
PWD00A-400	Programmable, Min, Max, ramps, setpoint	D**FW, D*FB, WLL, RLL

Drivers – Proportional Pressure Control Valves		
PCD00A-400	Programmable, Min, Max, ramps	RE*W, PE*W

Drivers – Proportional Throttle Valves		
PCD00A-400	Programmable, Min, Max, ramps	VBY, VMY, RE*W, PE*W

Drivers – Servovalves		
PID00A-400	Programmable, closed loop	BD, D*FX, D*FH, D*FP

Auxiliary Function Cards		
PZD00A-40*	Programmable, Signal Conditioning	Standard proportional control cards or valves with integrated electronics

Din Cartridge Valves



- Available in sizes 16 mm, 25 mm, 32 mm, 40 mm, 50 mm, 63 mm, 80 mm, 100 mm
- Flows up to 17,000 LPM (4500 GPM)
- Maximum operating pressures up to 350 bar (5000 psi)
- Proportional throttle, relief and pressure controls
- Complete selection of pressure controls
- Variety of direct and pilot operated checks
- Directional controls to 7500 LPM (2000 GPM)

Series	Proportional Throttle				Proportional Relief	Pressure Control	
	TDA	TEA	TEH	TDL	RE	R*E	RS*E
Normal sizes (NG)	16 -100	25 - 100	25 - 100	40 - 100	16 - 63	16 - 63	16 - 63
Max operating pressure (bar) (psi)	350 5075	350 5075	350 5075	350 5075	350* 5075*	350* 5075*	350* 5075*

*Y port = 100 bar (1450 psi); any pressure at Y is additive to valve setting

Series	C101	C10DEC	C111	C121	C18DEC	C18DB	C10B
Function	2-pos, 2-way	With poppet monitor switch	With poppet stroke limiter	With pilot valve interface	Active cartridge with dampening poppet & monitor switch	Active cartridge with dampening poppet	check valve
Normal sizes (NG)	16 -100	16 - 63	16 -100	16 -100	25 - 63	25 - 63	16 - 100
Nominal Flow 5 bar (LPM) (GPM)	7000 1852	4000 1058	7000 1852	7000 1852	4000 1058	4000 1058	8000 2113
Max operating pressure (bar) (psi)	350 5075	350 5075	350 5075	350 5075	350 5075	350 5075	350 5075

Threaded Cartridge Valves



Parker offers the broadest line of threaded cartridge valves, specialty valves and integrated packages in the industry. Parker is staffed with experienced cartridge and application engineers to design and specify products to meet customer applications.

Product Highlights

- Standard cavities sizes from 4–20
- Pressures to 420 bar (6000 psi)
- Flows up to 378 LPM (100 GPM)
- Steel and aluminum line bodies
- New RESILON™ D-Ring Seal eliminates need for back-up rings; improves wear, extrusion and spiral failure resistance (Winner's Circle)
- Spherical Poppet design assures accurate alignment and reduces leakage rating on many valves
- New crimp design eliminates adhesive between adapter and cage
- Custom manifolds available

- Most products hex-chrome free zinc plated
- Adjustment options for pressure & flow controls

Solenoid Valves

- Optional manual overrides
- SUPER COIL exceeds IP69K specifications
 - Water dunk test qualified
 - Endurance tested
 - Water spray and chemical solvent compatibility
 - 10 standard termination options (and many specials)
 - Many DC and AC voltages available

Bodies and Cavities

Parker Standard	industry standard, -4 through -20 sizes
Counterbalance	single and dual
Cavity Plugs	-8, -10, -12, -16 sizes
Special Bodies	unique Sterling and Waterman bodies

Check Valves

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Poppet/Ball type	500 (132)	420 (6000)
Pilot operated	150 (40)	420 (6000)
Dual pilot operated	190 (50)	350 (5000)

Coils and Electronics

Supercoils	IP69K, standard voltages, molded connectors
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Directional Controls

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Pilot operated spool	400 (105)	420 (6000)

Flow Controls

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Needle valves	225 (60)	420 (6000)
Pressure compensated	56 (15)	420 (6000)
Pressure compensated priority	90 (24)	420 (6000)
Flow dividers/combiners	320 (85)	420 (6000)

Load Motor Controls

Valve Type	FlowCapacity Liters/Min (GPM)	Max Working Pressure bar (psi)
Standard pilot assisted	350 (90)	350 (5000)
Vented to atmosphere	180 (48)	350 (5000)

Logic Elements

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Poppet	303 (80)	240 (3500)
Spool	500 (132)	420 (6000)

Manual Valves

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Poppet	45 (12)	350 (5000)
Spool	17 (5)	350 (5000)

Pressure Controls

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Direct acting relief	100 (26)	420 (6000)
Pilot operated relief	400 (106)	420 (6000)
Direct acting sequence	47 (12)	420 (6000)
Pilot operated sequence	160 (42)	420 (6000)
Direct acting reducing	56 (13)	420 (6000)
Pilot operated reducing	150 (40)	350 (5000)

Proportional Valves

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Pressure relieving	95 (25)	350 (5000)
Pressure reducing	30 (8)	210 (3000)
Flow controls	325 (60)	210 (3000)
Directional control	38 (10)	350 (5000)

Shuttle Valves

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Insert	38 (10)	420 (6000)
Cartridge	50 (13)	420 (6000)
Spool	175 (46)	420 (6000)

Solenoid Valves

Valve Type	FlowCapacity LPM (GPM)	Max Working Pressure bar (psi)
Poppet	75 (20)	350 (5000)
Spool	285 (75)	350 (5000)

Valves Open-Center Directional Control

P70CF/P70CP, V10, V20, V20EH, V70/V90, VA/VG20, VA/VG35, VG35EH



P70CF/P70CP

Parker offers a wide range of open-center directional control valves for mobile markets that also can be used as closed-center, constant-pressure and constant-pressure unloaded valves. Each valve technology offers unique features for improved machine performance and cost.

Parker also provides machine designers with a broad choice of circuitries, spool positioners and port accessories within each valve model. Field-proven differential area and pilot-operated relief valves also are available.

Parker's valve models come with a wide selection of special metering spools designed to optimize machine control and enhance operator comfort. Parker's market experience in machine control will direct you to the right solution.

A full line of pilot controllers with spring packs matched to remote-actuated directional control valves ensures predictable and reliable machine performance. For electrohydraulic operation, all valves are designed to interface with the IQAN electronics package.



V10



V20



V90



VA/VG20



VA/VG35

Open-Center Technology

Series	Max Input Flow LPM (GPM)	Max Work Port Flow LPM (GPM)	Max Pressure psi	Max Pressure bar	Open Center	Closed Center	Constant Pressure Unloaded	Load Sense
BV06-solenoid only	38 (10)	38 (10)	3000	207	X			
V10	57 (15)	57 (15)	3500	240	X	X		
KA18	82 (22)	82 (22)	4600	320	X			
P70CF, P70CP	76 (20)	76 (20)	4600	315	X	X	X	X
MD06-solenoid only	95 (25)	95 (25)	3000	207	X			
V20	95 (25)	95 (25)	3500	240	X	X	X	X
V20EH	95 (25)	95 (25)	3500	240	X	X	X	X
VA20 VG20	170 (45)	170 (45)	2500 3500	172 240	X	X	X	
VA35 VG35	246 (65)	246 (65)	2500 3500	172 240	X	X	X	
VG35EH	246 (65)	246 (65)	4000	275	X	X		
V90	379 (100)	379 (100)	3500	240	X			

Valves Load-Sense Directional Control

K170LS, K220LS, L90LS, M402LS, VP120, VP170, VPL



M402LS



L90LS

Parker's range of load-sensing control valves includes three models of load-sense only valves, five models of pre-compensated valves, and three models of post-compensated valves. All load-sense control valves offer improved machine control and efficiency. Market demands for improved productivity and reduced horsepower consumption make all of these control valves excellent candidates for mobile equipment.

Pre-compensated valves use traditional technology for load-sense pressure-compensation, and can limit pressure on selected work ports without flow loss. Post-compensated valves share flow

during pump over-demand conditions. All models have a full line of manual, hydraulic pilot and electrohydraulic spool positioners. Additionally, a wide variety of special metering spools are available to maximize machine control or to limit the speed of a function.

A full line of pilot controllers with spring packs matched to remote-actuated directional control valves ensures predictable and reliable machine performance. For electrohydraulic operation, all valves are designed to interface with the IQAN electronics package.



VP120



VPL



K220LS



VP170

Load-Sense – Pre & Post Compensated

Series	Max Input Flow LPM (GPM)	Max Work Port Flow LPM (GPM)	Max Pressure psi	Max Pressure bar	Load Sense	Load Sense Post-Pressure Compensated	Load Sense Pre-Pressure Compensated
V20LS	114 (30)	114 (30)	3500	240	X		
M402LS	500 (132)	500 (132)	5440	375	X		
VP120	159 (42)	12 (32)	4650	320		X	
VP170	227 (60)	170 (45)	5000	345		X	
VPL	189 (50)	114 (30)	5000	345			X
VP, VPO	379 (100)	208 (55)	4000	275			X
L90LS	151 (40)	91 (24)	4600	315			X
K170LS	284 (75)	170 (45)	3800	262			X
K220LS	379 (100)	220 (58)	5000	345			X

Valves Remote Control Systems

Hydraulic



The PCL4 is a hydraulic pilot system for the proportional remote control of directional valves, pumps, motors, etc. It is available with coordinate lever-units, as well as linear units for hand or foot control. The PCL4 is intended primarily for the remote control of hydraulically operated spool actuators and pump regulators in all kinds of mobile and industrial applications.



All connection ports can be obtained with G 1/4", M14x1.5 or 9/16" UNF connection threads. The coordinate valve is available in a version with all connections in the base plate. Up to 6 linear units can be built together in a block.

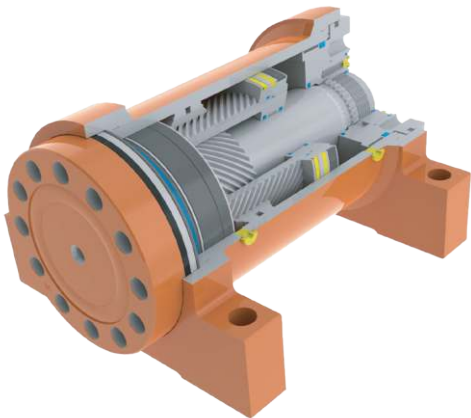
System Type	Hydraulic Pilot Pressure
Control pressure range	1 – 69 bar (14–1000 psi)
Control flow	Max 4 LPM (1 GPM)
Individual control characteristics for each direction	X
Selectable start and final pressures	X
Selectable lever force	X
Curves with straight characteristics	X
Curves with two-step characteristics	X
Curves with forced opening (final step)	X
Friction brake for retention in any position	X
Mechanical or electromagnetic end-position detent	X

Helical, Hydraulic Rotary Actuators

Series L and T

For over 50 years, Helac has lead the way in actuator technology and innovation. Our extensive line of compact and powerful rotary actuators offer simple and cost-effective solutions to move, support and position rotating loads in countless applications.

Helac actuators are designed to replace multiple components and function as a rotating device, mounting structure and bearing, all-in-one. They feature tremendous torque output and exceptional load bearing capability in compact dimensions. Catalog HY34-1001



- **Powerful:** High torque, high bearing capacity
- **Durable:** Moving parts enclosed, suitable for harsh environments
- **Compact:** High power density, fits in tight spaces
- **Hold Position:** Zero internal leakage, smooth operation, no external brake required
- **Simplifies:** Eliminates bearings, linkages & brackets, reduces bill of materials, simplifies supply chain, assembly and maintenance
- **Backdrives in overload conditions:** Hydraulic fuse, prevents mechanical damage when properly equipped



Operating information L10 Series

Rotation	180° and 360°
Maximum Drive Torque:	3,000 to 25,000 in-lb
Maximum Holding Torque:	11,000 to 83,000 in-lb
Maximum Straddle Moment:	9,000 to 100,000 in-lb
Maximum Cantilever Moment:	9,000 to 100,000 in-lb
Mounting:	Flange



Operating information L20 Series

Rotation	180°
Maximum Drive Torque:	4,500 to 39,000 in-lb
Maximum Holding Torque:	11,800 to 93,200 in-lb
Maximum Straddle Moment:	22,500 to 280,000 in-lb
Maximum Cantilever Moment:	12,000 to 140,000 in-lb
Mounting:	Foot



Operating information L30 Series

Rotation	180° and 360°
Maximum Drive Torque:	17,000 to 215,000 in-lb
Maximum Holding Torque:	43,600 to 520,000 in-lb
Maximum Straddle Moment:	119,000 to 1,505,000 in-lb
Maximum Cantilever Moment:	45,900 to 645,000 in-lb
Mounting:	Flange or Foot



Operating information T Series

Rotation	200° and 220°
Maximum Drive Torque:	25,000 to 60,000 in-lb
Maximum Holding Torque:	54,200 to 127,000 in-lb
Maximum Straddle Moment:	37,500 to 90,000 in-lb
Mounting:	Foot



Pneumatics



ISO Cylinders P1F-S/P1F-T

- Cylinders as per ISO 15552 standards
- Profile and Tie rod construction
- Dia-32 to 320 mm, Max 10 bar, Temp -5 to +150 deg C
- Complete range of mountings and sensors



Compact ISO Cylinders - P1P

- Bore size : Φ 20 to 100 mm
- Compact cylinders with ISO 21287 standards
- Space saving with end covers
- Auto switch available



Rod less Cylinder– OSPP

- Comprehensive range
- Bore sizes Φ 16 to Φ 80 mm
- Capable of long strokes of up to 10 Mtr
- Compact design for space savings
- Built-in guidance
- Excellent life cycle
- Built-in magnets for sensors
- Supports high direct & cantilever loads



Heavy Duty Pneumatic Cylinder-2A

- Parker 2A/2AN series pneumatic cylinders incorporates design features superior in a 250psi rated cylinder
- Bore size 1" to 14"
- MOC - Steel body and end caps
- Tie-rod construction
- "Jewel" Rod gland for increased machine productivity
- Temp -10 to +165 deg F
- Available in any practical stroke lengths
- Different mounting combinations available



Guide cylinder - P5T series

- Bore size 16 to 100 mm
- Maximum Stroke length 200 mm
- Anodized aluminum body with SS piston rod
- Extend stroke force 120 to 4712 N @ 6 bar



Rotary Actuator – PTR

- Rotating angle 90, 180, 270, 360, 450 deg
- Operating pressure 250 psi
- Torque 39 to 2281 lbf/sq-in @ 100 psi
- Sensing Proximity, Reed, Hall Effect
- Nitrile and fluorocarbon seals



Viking Lite & Xtreme valves

- Sizes 1/8, 1/4, 3/8, 1/2" inline solenoid valves
- Manifold option up to 10 valves
- Hi flow rates 0.6 to 3.5 Cv
- Coils with LED & surge suppression
- Bi-stable manual overrides
- Suitable for temperature ranges
- -40 to +150 degree C
- Atex certified for use in flammable environment



Moduflex Valves

- Multifunctional design with stand alone valves to valve islands with hard wire & IO link compatible.
- Flexibility, simplicity, reliability, cost efficiency and easy diagnostic with P2M communication module.
- Ceramic seals suitable for 100 million operations
- Optimum size to flow ratio, up to 0.8 Cv
- Response time less than 10 ms
- Shorter spool for reduced switch over time
- External piloting with built in connectors for low pressure & vacuum applications.



H-Micro valves

- Plug in Valve islands
- Valve islands for centralized applications
- Valve islands compatible with fieldbus protocols DeviceNet, EtherNet/IP, Profibus-DP, ControlNet
- Compact with flow 0.35 Cv
- WCS Metal spool with life more than 50 million cycles
- Low power consumption only 0.6W
- Optional Multi pin connector for decentralized applications

H series - ISO Valves



- Suitable for positive pressure & vacuum application
- Air or solenoid operated
- Ceramic technology
 - Low friction
 - High Flow
 - Long life : Minimum 100 million operations maintenance free.
- Modular design that accommodates different valve sizes in one assembly. Size : #01, #02, #1, #2, #3
- Different pressure zones.
- Control of pilot pressure.
- Spool sensing
- Safe power capable
- Flow rate 0.55 Cv to 6.0 Cv
- Designed to ISO 5599 & 15407 standards

Electronic Pressure Regulators



- Fast response times
- Accurate output pressure
- Robust industrial design
- Excellent linearity and hysteresis
- Quick, full flow exhaust
- Digital display indicates output pressure
- Electrical connector M12
- No air consumption in steady state

Global FRL units



- Maximum operating pressure 17 bar
- Modular Design compatible with soft start valves, dump valves and air take off blocks.
- Size 1/8" to 2" Filters, FR, FRL and Regulators.
- Coalescing filters available
- Quick release bowl design.
- Manual and Automatic drain
- 5, 40 micron filtration as standard
- Polycarbonate & Metal bowls w/sight gauge.
- SS body Filters and FR's available as option

Safety Exhaust Valve



- The P33 Safety Exhaust valve is designed to safely remove trapped air from the machine during a faulted or e-stop condition.
- Max Operating pressure - 150 psi, 30 bar
- Flow rate - up to 265 SCFM, up to 125 dm³/sec, up to 7500 L/min
- Port size – 3/4 "
- Mounting Type -Inline / Stand-Alone or Modular Mount (on P32/P33 FRL)
- Operating Temp - 4 to 50°C, 40 to 120° F
- Input Voltage – 24V DC

Air Saver Unit – ASV/ASC/ASO



- Valve that converts continuous blow to Pulse blow w/o any external control
- Reduce air consumption up to 50%
- Improves blow efficiency
- 6 sizes – 150 l/min to 15,000 l/min

Water Retract Actuator



- Water Retract Actuator is a solution designed to prevent excessive water spillage during the routine tip change of a spot-welding gun. It reduces the water pressure in the closed-off cooling circuit which eliminates the problems of water being expelled under pressure during a tip change in weld shop robots resulting in dry tip change.
- Available in 3 capacities 125, 250 and 500 ml

PCH Network Portal

What is PCH Network Portal?

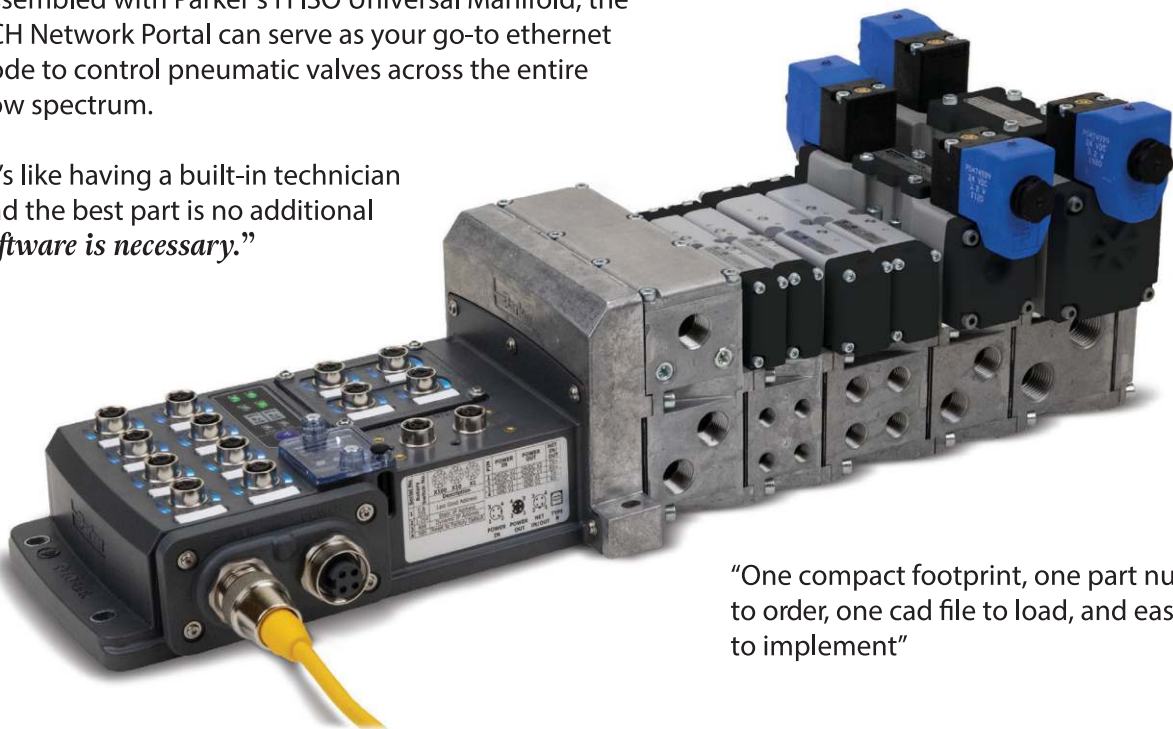
PCH Network Portal is a new approach to ethernet communication modules that redefines and revolutionizes machine I/O architecture (inputs and outputs). As an ethernet node with IO-Link master capability that supports multiple Industrial Ethernet communication protocols (EtherNet/IP, PROFINET, Modbus TCP and EtherCAT), the PCH Network Portal can communicate with many industrial controllers used in the automation industry. It is classified as a Cyber Physical System for its ability to communicate across machinery while offering maximum function integration, simplicity of use, and significant architecture cost reductions.

The PCH Network Portal was engineered for flexible manufacturing applications where machine changes are common, PLC's are not always accessible, and where obstacles on the plant floor make setup, configuration and troubleshooting time consuming. The PCH Network Portal was engineered with configurable I/O with true PNP / NPN circuitry switching and the open protocol, IO-Link, on each port for easy machine design changes. With built-in configurable IO-Link master ports all packed into an IP65, weld splatter resistant housing, the PCH Network Portal can future-proof your machine to changes in your network architecture. Built-in programming functions such as debounce timers and time stamped rolling 40 errors, warnings and events logs make troubleshooting and integration easy, even for an unseasoned programmer.

When commissioning or troubleshooting, multiple interfaces can be used in conjunction with a PLC, such as the embedded webpage and the PC based PCH Portal Configuration Tool. Configuration and troubleshooting can be done via a laptop, tablet, or phone via a secure and lockable Bluetooth connection, providing remote control of the PCH Network Portal which enhances safety by allowing commissioning and troubleshooting outside of the safety area of the machine; especially when dealing with robot controllers or end effector tooling. NOTE: When PCH is owned by a PLC or another master controller configuration and forcing of valves, inputs and outputs is limited.

Assembled with Parker's H ISO Universal Manifold, the PCH Network Portal can serve as your go-to ethernet node to control pneumatic valves across the entire flow spectrum.

"It's like having a built-in technician and the best part is no additional *software is necessary.*"

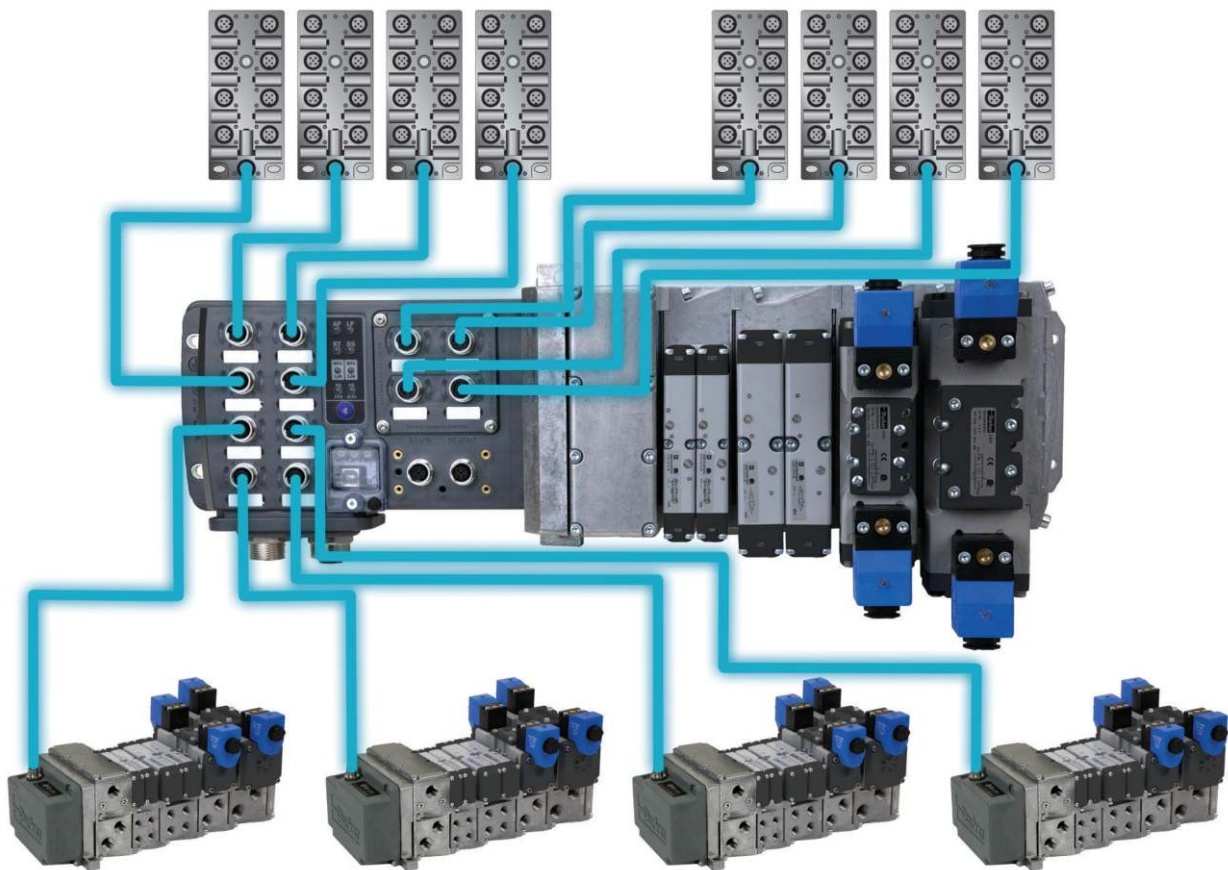


"One compact footprint, one part number to order, one cad file to load, and easier to implement"

Architecture Savings, Dramatic versatility

The modularity of the PCH Network Portal can significantly optimize the layout and architecture of a machine offering significant cost reductions in machine design, during integration or simply through rapid troubleshooting and maintenance benefits. Reducing architecture complexity, increasing compatibility and interchangeability of connected devices, together with an ease of set-up and programming, allows the PCH Network Portal to achieve incredible savings in machinery design.

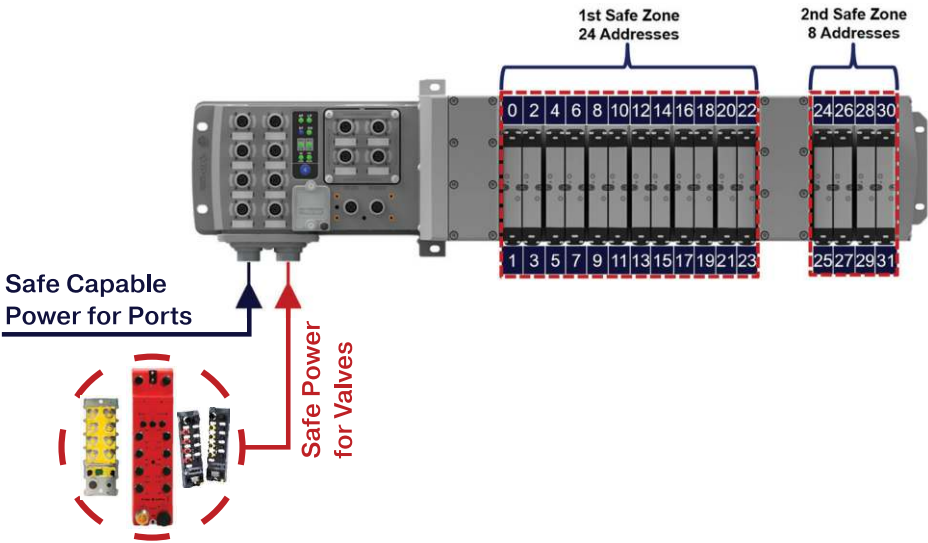
Utilizing the PCH Network Portal allows applications the flexibility of expanded I/O. Furthermore, taking advantage of the PCH Network Portal's IO-Link master capabilities can dramatically increase the available I/O on a machine. IO-Link opens the door to low cost integration of devices like RFID read head integration, smart lights, distribution blocks, and inductive couplers all in one fixed form factor. This integrated flexibility eliminates the need for expensive ethernet masters, and cabling. As your application grows, the PCH Network Portal can adapt to meet many needs in the automation world.



The example above shows the PCH Network Portal expanded to 128 inputs via 8 IO-Link discrete I/O blocks, 4 additional valve manifolds via IO-Link each expandable to 24 valves. These connections are made with the non-proprietary and open protocol IO-Link, which uses standard M12 cables. The PCH Network Portal provides the opportunity to control an entire cell or line by with just one ethernet connection.

Flexible Design, Value Redefined

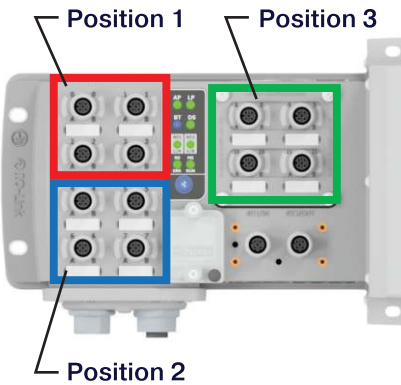
Safe power enhances the security of important connections such as light curtains that require OSSD test pulsing following machinery directives to achieve safety conformance. The illustration below shows the flexibility offered by the PCH Network Portal when separated into two isolated safe power zones using the S4 or S5 power options. The left power connector ('Safe Power Capable for Ports') provides safe capable power to the PCH Network Portal I/O auxiliary ports. The right power connector ('Safe Power for Valves') provides 2 safe power zones for attached pneumatic valves via isolated pins and safe grounds. The first safe power zone covers the first 24 valve solenoids of the pneumatic manifold. The second safe power zone covers the final 8 valve solenoids of the pneumatic manifold. NOTE: Intermediate air supply with expansion too 25th address is required. These safe power zones can be used to implement safe process lines and safe machines all in one compact and powerful solution.



Designing Your System

The PCH Network Portal can accommodate up to three module variants (A, B, and C), each offering uniquely customizable ports. Once you select your module those ports become fully configurable as IO-Link A or IO-Link B master ports or configurable PNP or NPN digital I/O ports. This makes changes on the machine flexible without having to purchase new components.

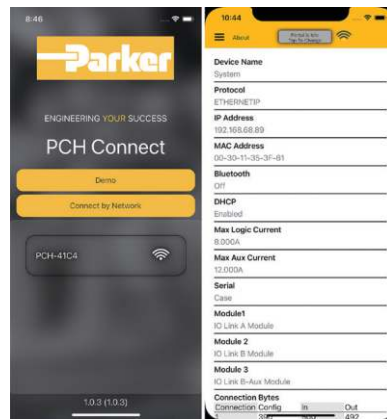
Module Variant	Description	Each port can have any of the following behavior:
A	Class A IO-Link or Dual I/O	1 IO-Link Class A Master and (1 input or 1 output) OR 2 Inputs 24V DC (PNP or NPN) OR 2 Outputs 250 mA, @ 24V DC OR 1 Input 24V DC (PNP or NPN) and 1 Output 250 mA, @ 24V DC
B	Class B IO-Link or Single I/O	1 IO-Link Class B Master 1 Input 24V DC (PNP or NPN) 1 Output (Logic Power), 250 mA, @ 24V DC
C	Class B IO-Link or Dual I/O	2 M12 Ports with digital output (each port will have 2 outputs (aux power) 500 mA, @ 24V DC 2 M12 Ports, each port will be configured as one of the following: 1 IO-Link Class B Master OR 1 Input, 24VDC (PNP/NPN) OR 1 Output (Logic Power), 250mA @ 24V DC



Streamlined Diagnostics

Can't access the PLC? No Problem!

With the PCH Portal Bluetooth App installed on your phone or tablet, you can access usable prognostic/diagnostic data and time stamped event logs wirelessly to make accessing data and commissioning your machine simple. Testing and checking I/O, IO-Link devices and other mechanical functions of your machine becomes less of a hassle, by allowing someone to walk freely around the machine, while these checks are being done. The same functions that the PCH Web Interface and Configuration Tool have are also included with PCH Bluetooth App.



Secure



Lockable



PCH Portal Configuration Tool

PLC Mode ☒ Configure Mode ☐

STATUS CONFIGURATION FORCE MODE LOG HELP

Status

PCH10EABC0-P4

Address	Valve Tag	Connect	State	Address	Valve Tag	Connect	State
0	VALVE_1	OFF	Green	16	VALVE_17	OFF	Green
1	VALVE_2	OFF	Green	17	VALVE_18	OFF	Green
2	VALVE_3	OFF	Green	18	VALVE_19	OFF	Green
3	VALVE_4	OFF	Green	19	VALVE_20	OFF	Green
4	VALVE_5	OFF	Green	20	VALVE_21	OFF	Green
5	VALVE_6	OFF	Green	21	VALVE_22	OFF	Green
6	VALVE_7	OFF	Green	22	VALVE_23	OFF	Green
7	VALVE_8	OFF	Green	23	VALVE_24	OFF	Green
8	VALVE_9	OFF	Green	24	VALVE_25	OFF	Green
9	VALVE_10	OFF	Green	25	VALVE_26	OFF	Green
10	VALVE_11	OFF	Green	26	VALVE_27	OFF	Green
11	VALVE_12	OFF	Green	27	VALVE_28	OFF	Green
12	VALVE_13	OFF	Green	28	VALVE_29	OFF	Green
13	VALVE_14	OFF	Green	29	VALVE_30	OFF	Green
14	VALVE_15	OFF	Green	30	VALVE_31	OFF	Green
15	VALVE_16	OFF	Green	31	VALVE_32	OFF	Green

Device Information

Device Name	PCH Portal
Protocol	Ethernet/IP
IP Address	192.168.1.1
Bluetooth	ON
DHCP	Disabled
Total Current Available	Logic 0.06 A Aux <12 A
Maximum Current	Logic 8 A Aux 12 A
Configuration Data Bytes	390
Bytes Produced	500
Bytes Consumed	492
Serial Number	

LED	Status	Value	Description
Aux Power	Green	23.87 V	Connected and within Limit
Logic Power	Green	23.96 V	Connected and within Limit
Bluetooth	Blue	7min	Remaining Time
Device Status	Green	-	Normal

LED	Status	Description
Port 1 LINK/Activity Status	Grey	No link, no activity
Port 2 LINK/Activity Status	Grey	No link, no activity
NS/ERR LED	Grey	---
MS/RUN LED	Green	---

● Output Configured ● Input ON ● IO-Link Configured, but no device connected ● IO-Link Configured, device connected
 ● Output Forced ON ● Output Forced OFF ● IO pin is short - circuited or faulted ● Output ON

Device connected

When using the 'PCH Portal Configuration Tool' your built-in technician comes to life with easy to follow screens for readouts, adjustments, and settings. Configuring the PCH Network Portal to the network is easy. Fast and storable configurations combined with embedded smart diagnostic and prognostic tools like built-in debounce times and up/down counters translate to quick change-over and short downtime. Further problems are easy to spot with the rolling 40 error, warnings, and events log which are time stamped. No more guessing at what went wrong in plant. Commissioning and troubleshooting a tool can even be done remotely from outside the work cell via the device's secure and lockable Bluetooth connectivity.

Electromechanical & Drives (EM&D)

Parker Motion Controller - PAC



General	PAC120
Function	Mini-IPC with integrated CODESYS SPS and EtherCAT master function for I/O modules systems PACHC and PACIO
Housing	Aluminium strap, plastic
Protection class	IP20
Mounting	35 mm DIN rail
Operation temperature	0 °C...+55 °C

Common Features

- Fan-less ARM processor technology
- Ethernet and EtherCAT
- Fieldbus options: EtherCAT, Profinet, EtherNet/IP, Modbus
- OPC UA server
- CODESYS V3.5
- CODESYS WebVisu
- CODESYS SoftMotion
- IEC61131-3 programming
- PLCopen motion control
- Web configuration tool
- SD card slot and USB interface
- Expandable with Parker PACIO modules
- DIN rail mounted

IQAN-MC4



Capabilities	MC41	MC42	MC43
vmAC core			
MCU triple core 300 MHz	✓	✓	✓
Program memory (Flash/SRAM)	0.5 MB / 0.5 MB	1 MB / 1 MB	1.5 MB / 1.5 MB
Data log memory (Dflash)	2 MB	2 MB	2 MB
Settings and counter memory (FRAM)	32 KB	32 KB	32 KB
Inputs total	18	18	50
Voltage inputs: 12-bit, 0 – 5 V	8	8	26
Voltage inputs: 12-bit, 0 – 32 V	2	2	2
Current-loop inputs: 13-bit, 0 – 20 mA	2	2	4
Timer inputs (Freq., PWM, Pulse): 0 – 50 KHz	6	6	6
Digital inputs	6	6	18
Outputs total	8	16	36
CAM outputs (closed-loop): 100 – 2500 mA	2 x 2	6 x 2	10 x 2
PWM outputs: 4 A high-side (6 A in parallel)	4	4	8
PWM outputs: 2.5 A low-side	4	12	20
Digital outputs: 300 mA low-side	-	-	8
Network			
CAN	2	3	5
Ethernet	-	✓	✓

Mobile Controllers With Open Programming - IQAN-Open

Program with CODESYS, MATLAB, C
Supports functional blocks
Over-the-air connection



CM2723



General	
Weight	0.46 kg
Operating Temperature	–40°C to +85°C
Storage Temperature	–40°C to +85°C
Electrical	
System Voltage	12 V
Operating Voltage	9 V to 16 V
Micro Core Capabilities	
Micro Type	STM32F407 (Cortex M4 based)
Flash Size	1024 kB
RAM Size	192 kB
EEPROM Size	8 kB (Upgradeable to 128 kB) plus 256 Bytes of Product Information
3 axis Accelerometer	(Optional)
Real Time Clock	(Optional)
Communication Channels	
CAN (SAE J1939)	2
RS232	1 (optional, part of Configurable Inputs/Outputs)
Configurable Inputs *	Maximum of 27 inputs
Analog Inputs	Up to 16 (Input Load: 16-Analog, 8-Resistive, 4-Frequency)
Digital Inputs	Up to 21 (Input Load: 21-Active High, 9-Active Low, 3- Wake Up)
Outputs	
High Side Outputs – PWM capable	8
Max Continuous Load	3,4 A
Max PWM Frequency	300 Hz
High Side Outputs – Digital	8
Max Continuous Load	350 mA
Low Side Outputs – Type 1	6
Max Continuous Load	2.5 A
+5V Sensor Supply	2 (5V and/or 8V at 75 mA max current)
Maximum Module Current	15 A
Mechanical	
Enclosure Material	Plastic
Connector Type	1 x 34 pins, 1 x 26 pins, 60 pins total AMP Super Seal
Mounting Method	2 x M10-1.5 bolts

PHD Displays

Product Features:

- Color display
- CAN Bus Interface
- Touch screen
- Outdoor rated
- Video input (PHD50/PHD70)
- Compact size
- Easy to program
- Software simulation with no hardware required
- Shareable demo applications
- Customizable bezel
- Multiple language support
- Built-in I/O
- Low power sleep mode



Sensors

Advanced sensors enhance productivity and profitability

Product Features:

- tough stainless steel or plastic housings
- sealed electrical connectors
- easy to install
- protected against shock, vibration and electro-magnetic interference
- wide range of operating conditions (IP67)
- excellent stability
- reduces build costs and maintenance costs
- full technical and after sales support



Global Vehicle Inverter (GVI)

Parker’s GVI series represents the latest mobile application design standards for compact and reliable inverters.

	Low voltage	High Voltage
Nominal Voltage	24 / 48 / 80 / 96 Vdc	650 Vdc
Peak Current	700 Arms	500 Arms
Peak Power	68 kVA	300 kVA
Safety	-	Motor Torque Off and HVIL
Protection	IP65	IP6K9K
Control Type	Speed or Torque control	
Feedback	Sin/Cos encoder	Resolver
Communication	CAN J1939, CAN Open, Parker IQAN compatible	
Cooling	Cold plate	WEG liquid cooled
Conformance	IEC60068, EN61000-4, EN1175-1, IEC60529, EN55022	ISO20653:2006, ISO16750-4, ISO16750-3 EN60068-2, CISPR25 Ed.4 Class 3, ISO11452-4, ISO11452-8, ISO7637-2

Global Vehicle Motor (GVM)

The efficient GVM motor with PMAC technology offers high torque density and high speeds to meet the requirements of electric or hybrid-electric equipment.

	GVM142	GVM210	GVM310
Operating Voltage	24 to 800 VDC	24 to 800 VDC	up to 800 VDC*
Peak Power	up to 57 kW	up to 280 kW	up to 409 kW
Max. Torque	up to 85 Nm	up to 710 Nm	up to 1430 Nm
Pump Interface	SAE A	SAE A SAE B SAE C 4 bolts ISO 7653	SAE C SAE D 4 bolts

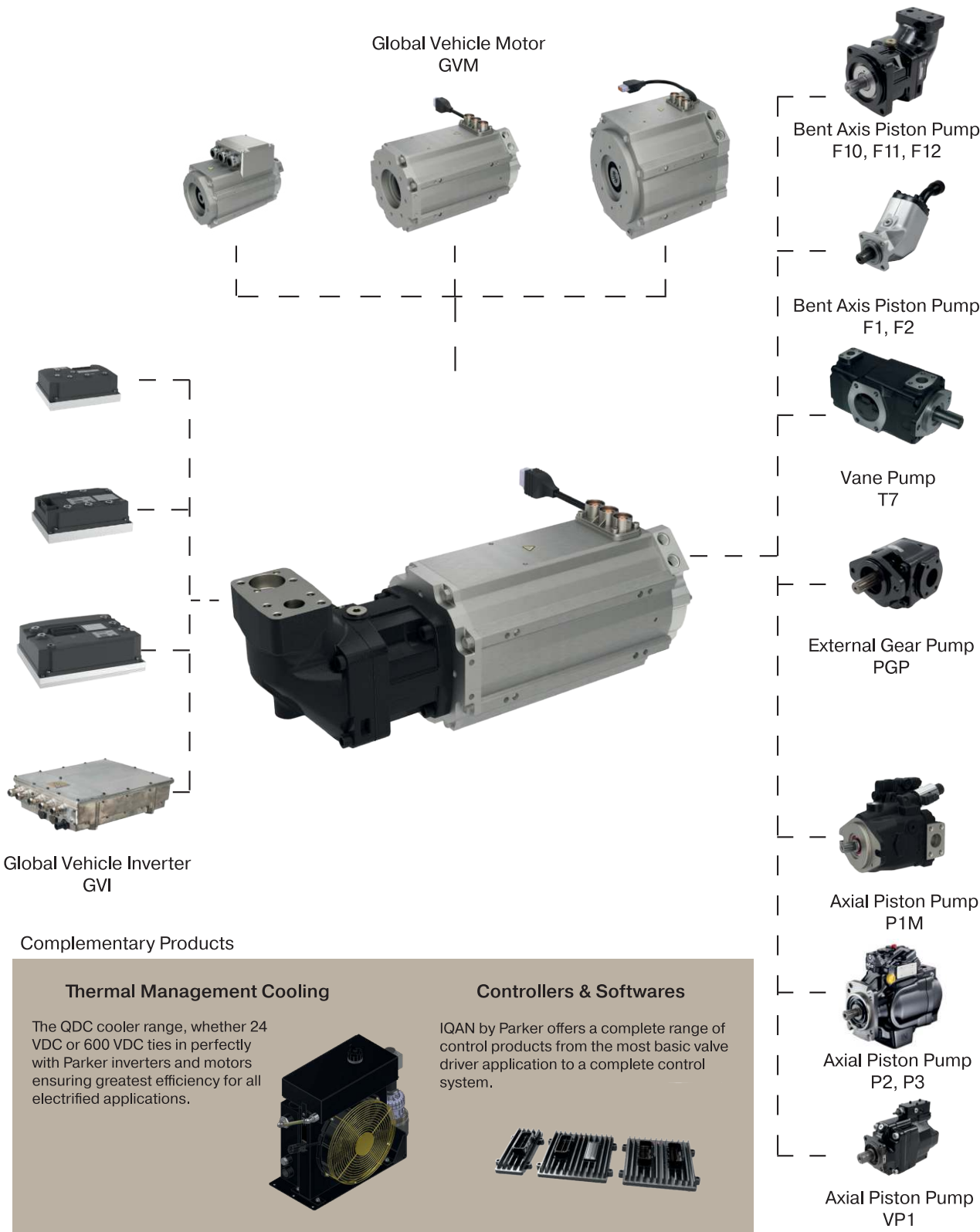
Configured ePump

Parker's global expertise in hydraulic, electric motor, and inverter technologies is combined into the Configured ePump, creating an optimized and customizable system for hybrid electric and all fully electric mobile applications.



Motor type	GVM Permanent Magnet AC synchronous motor (PMAC)
Pump type	Parker hydraulic vane pumps, axial piston, bent axis, gear pumps or Helical Gear pumps
Rated voltage	24 to 800 VDC
Hydraulic power	up to 260 kW
Flow range	up to 350 l/min
Pressure range	up to 450 bar
Protection (motor + pump)	IP6K9K as standard with GVM servomotors

Configured ePump Combinations



Variable Speed Drive - AC10 Series



Overview

Description

The AC10 Compact Drive is a simple, reliable and economical solution to every-day motor control applications requiring speed or torque control within the power range of 0.2 kW to 180 kW for IP20 and 0.4 kW to 90 kW for IP66. Having compact dimensions and features normally only associated with higher specification drives, including sensorless vector mode for control of Permanent Magnet (PMAC) and AC induction motors, output frequency up to 590 Hz, 3 phase 400 V supplies in all 11 frame sizes and a full 150 % overload at 0.5 Hz for 1 minute, AC10 provides an optimised solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance.

All AC10 drives are now compatible with DSE-Lite: an easy-to-use software package designed to make commissioning and managing your variable speed drive application as simple as possible.



Technical Characteristics IP20 - Overview

Power Supply	220 ... 240 VAC $\pm 15\%$ Single Phase 220 ... 240 VAC $\pm 15\%$ Three Phase 380 ... 480 VAC $+10\%$ -15% Three Phase
Input Frequency	50/60 Hz
Power Range	0.2...180 kW
Operating Temperature	-10...50 °C (derate above 40 °C)
Analogue Inputs	1x (0-10V), 1x (0-10V, 0-5V, 0-20mA, 4-20mA)
Analogue Outputs	1x (0-10 V), 1x (0-20 mA)
Digital Inputs	6x 24 VDC frames 1-5, 8x 24 VDC frames 6-11
Digital Outputs	1x 24 VDC frames 1-5 2x 24 VDC frames 6-11
Relay Output	1x 5 A @230 VAC

Technical Characteristics IP66 - Overview

Power Supply	220 ... 240 VAC $\pm 15\%$ Single Phase 220 ... 240 VAC $\pm 15\%$ Three Phase 380 ... 480 VAC $+10\%$ -15% Three Phase
Input Frequency	50/60 Hz
Power Range	0.4...90 kW
Operating Temperature	-10...50 °C
Analogue Inputs	1x (0-10V), 1x (0-10V, 0-5V, 0-20mA, 4-20mA)
Analogue Outputs	1x (0-10 V, 0-20 mA)
Digital Inputs	6x 24 VDC
Digital Outputs	1x 24 VDC
Relay Output	1x 5 A @230 VAC

Variable Speed Drive - AC15 Series



Overview

Description

The AC15 Compact Drive is a simple to use, reliable and economical solution for every-day motor control applications that require speed or torque control in the power range of 0.37 kW to 30 kW. With compact dimensions and features normally only associated with higher specification drives, including Safe Torque Off, Ethernet communications, sensorless vector mode for control of both Permanent Magnet (PMAC) and AC induction motors and a full 150 % overload for 1 minute, AC15 provides an optimized solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance.

Technical Characteristics - Overview

Power Supply	220 ... 240 VAC ±10 % Single Phase 220 ... 240 VAC ±10 % Three Phase 380 ... 480 VAC ±10 % Three Phase
Input Frequency	50/60 Hz ±10 %
Power Range	0.37...30 kW Heavy Duty (HD)
Overload	150% for 60 sec.
Output Frequency	0.5 - 590 Hz
Safe Torque Off (STO)	SIL2, PLd
Operating Temperature	0...40 °C (derate up to max 45°C)*
Altitude	0-1000m (derate up to 2000m)

* Temperature derate not available on 0.37kW 230V version

Variable Speed Drive - AC20 Series

Overview

Description

The AC20 Advanced Compact Drive is a highly featured yet economical solution to general purpose motor control applications. AC20 provides speed or torque control in the power range 1.5 kW to 180 kW. Its compact dimensions house many features normally only associated with system drives, including sensorless vector mode for control of Permanent Magnet (PMAC) and AC induction motors, encoder feedback and IO expansion option cards, Safe Torque Off and an onboard Ethernet port that supports major industrial Ethernet protocols. AC20 provides the perfect solution for OEM machine builders looking for a compact, cost-effective drive without compromising on performance.



Technical Characteristics

Power Supply	220 ... 240 VAC ±10 % Single Phase 220 ... 240 VAC ±10 % Three Phase 380 ... 480 VAC ±10 % Three Phase
Input Frequency	50/60 Hz ±10 %
Power Range	1.5...180 kW Heavy Duty (HD)
Overload	150% for 60 sec.
Output Frequency	0.5 - 590 Hz
Safe Torque Off (STO)	SIL2, PLd
Operating Temperature	0...40 °C (derate possible up to 45°C)*
Altitude	0-1000m (derate 1% per 100m up to 2000m max.)

* Without communications option fitted

Variable Speed Drive - AC30 Series

Overview

Description

The AC30 variable speed drive has been designed to provide users with exceptional levels of motor control, from simple open-loop pumps and fans through to closed-loop process line applications.

The AC30 combines advanced performance with exceptional ease of use, making even the most complex applications simple to achieve.



Technical Characteristics - Overview

Ratings								
380-480 (±10 %) VAC Supplies Three Phase								
Normal Duty				Heavy Duty				
kW	hp	Output Current [A _{rms}]		kW	hp	Output Current [A _{rms}]		Frame
		400 V	460 V			400 V	460 V	
1.1	1.5	3.5	3.0	0.75	1	2.5	2.1	D
2.2	3	5.5	4.8	1.5	2	4.5	3.4	D
4	5	10	7.6	3	4	7.5	5.8	D
5.5	7.5	12	11	4	5	10	7.6	D
7.5	10	16	14	5.5	7.5	12	11	E
11	15	23	21	7.5	10	16	14	E
15	20	32	27	11	15	23	21	F
18.5	25	38	36	15	20	32	27	F
22	30	45	40	18.5	25	38	36	G
30	40	60	52	22	30	45	40	G
37	50	73	65	30	40	60	52	G
45	60	87	77	37	50	73	65	H
55	75	105	96	45	60	87	77	H
75	100	145	124	55	75	105	96	H
90	125	180	156	75	100	145	124	J
110	150	205	180	90	125	180	156	J
132	200	260	240	110	150	205	180	J
160	250	315	302	132	200	260	240	K
200	300	380	361	160	250	315	302	K
250	350	440	414	200	300	380	361	K
280	450	530	520	250	400	480	480	L
315	500	590	590	280	450	530	520	L
355	550	650	650	315	500	590	590	M
400	600	700	680	355	550	650	640	M
450	650	790	770	400	600	700	700	N

Modular Systems Drives

Modular Systems Drives - AC890 0.55 - 1200 kw

Description

The AC890 is a compact, modular systems drive engineered to control speed and position of open-loop and closed-loop, single- or multi-motor AC or servo motor applications.



Stand Alone version



The Complete Drive

The AC890SD series Stand Alone drive provides a complete AC input to AC motor output, with power input and output terminals.

Other characteristics of the AC890SD include:

- Power output up to 900 kW
- 208-500 VAC input supply
- Access to all feedback and networking options
- Built-in dynamic brake switch provisions to add external braking resistor
- 24 VDC control board supply for programming without power
- Torque and speed outputs
- USB programming port

Common Bus version



Common Bus Drive

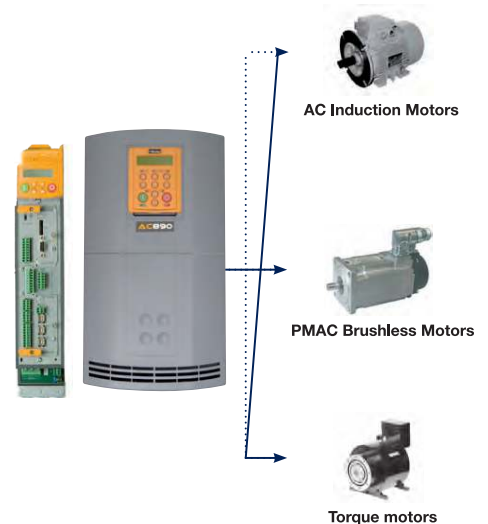
The AC890 is also available in a common bus platform, where individual motor output drives are easily connected to a common bus supply.

Characteristics of the common bus drive (AC890CD):

- Power output to 900 kW (1200HP) in 9 frame sizes
- Power Supply: 320-705 VDC
- Access to all feedback and networking options
- 24 VDC control board supply for programming without power
- Torque and speed analogue outputs
- USB programming port

Characteristics of the common bus supply module (AC890CS):

- Power output 7.5-110 kW
- Power Supply: 208-500 VAC
- Built-in dynamic braking unit (external braking resistor required)
- Operator display for diagnostics
- Up to 162 A output per module



DC Drives - DC590+ Integrator Series 15A - 1950A

Overview

Description

The DC590+ Integrator Series DC drive is the latest development of the range which also includes the AC690+ AC drives. It benefits from 30 years experience of designing and manufacturing drives for process line control with dedicated function blocks which simplify the implementation of applications such as sectional drive reels, winder control etc. The function block capabilities offer unparalleled flexibility in both new installations and retrofit applications. A number of common fieldbus communications options enable connectivity to a wide range of popular control networks allowing the DC590+ to be integrated in larger control systems.



Technical Characteristics - Overview

Power configuration	DC590+ 4 quadrant regenerative; 2 fully controlled 3 phase thyristor bridges DC591+ 2 quadrant; 1 fully controlled 3 phase thyristor bridge
Armature rating (ADC)	Frame 1 15, 35 A Frame 2 40, 70, 110, 165 A Frame 3 180, 270 A Frame 4 380, 500, 725, 830 A Frame 6 1250, 1600, 1950 A
Overload	15...270 A; 200 % for 10 s 150 % for 30 s - from 380 A: several overload choices are available
Supply voltage (VAC) 50/60 Hz	220...500 V ($\pm 10\%$) Frame 1...4 110...220 V ($\pm 10\%$) Option Frame 1...4 500...600 V ($\pm 10\%$) Option Frame 4 380...600 V ($\pm 10\%$) Frame 6 380...690 V ($\pm 10\%$) Frame 6
Field current max	4 A Frame 1 10 A Frame 2 and 3 30 A Frame 4
Field voltage max	$V_{\text{field}} = V_{\text{AC}} \times 0.82$
Operating Environment	
Operating temperature	0...45 °C (15...165 A) 0...35 °C (180...270 A) 0...40 °C (current ≥ 1200 A) derate by 1 %/°C up to 55 °C max
Altitude	500 m above sea level Derate by 1 %/200 m above 500 m to 5000 m max

External Stack Controller - DC598+, DC599+ Series

The economical solution for retrofit

applications

When upgrading machines equipped with older high power DC drives, the most cost-effective and quickest way is often to reuse the existing thyristor power stack, which in most cases will be in perfect working order. To preserve your investment, Parker SSD Drives has developed a DC598+ / DC599+ power stack controller offer specially aimed at retrofit applications and based on the DC590+ controller.

Available in 2 versions, the DC599+ two quadrant non-regenerative and DC598+ four quadrant full-regenerative versions, can be used to drive the power stacks of existing DC drives manufactured by Parker SSD or other manufacturers, delivering the benefits of the recent technological innovations of the DC590+ Series drive.

The DC598+ and DC599+ offer the ability to upgrade your equipment quickly and easily and integrates with your existing control equipment or SCADA package. The DC598+ and DC599+ retrofit solutions are recommended for currents above 800 A.



Technical Characteristics

Supply Voltage	110...240 VAC $\pm 10\%$ 220...500 VAC $\pm 10\%$ 380...690 VAC $\pm 10\%$ 3 ph coding or 1 ph power
Supply Frequency	50/60 Hz $\pm 10\%$
Output Field Current	60 ADC naturally cooled - 120 ADC force cooled (1 x Field Current DC value) Amps 1 ph. AC Nominal 3 ph AC
Field Output Voltage	(0.9 x 1 ph Supply Voltage) VDC
Total Losses	(3 x idc out) Watts.
Auxiliary Supply	110...240 VAC $\pm 10\%$ 1 ph - Naturally cooled 110...120 VAC $\pm 10\%$ 1 ph - Force cooled 115 V fan 220...240 VAC $\pm 10\%$ 1ph - Force cooled 230 V fan
Auxiliary Supply Current	SMPS Quiescent Current = 500 mA 115 VAC or 250 mA 230 VAC ie 50 VA. Fan current - 270 mA @115 VAC or 135 mA @230 VAC
Auxiliary Supply Fuse	3 A

Intelligent Servo Drive Compax3

Overview

Description

Compax3 is Parker Hannifin's global servo drive. The drive series includes single and multi axis drives as well as hydraulic controllers. It features a power range from 1 to 109 kVA.

The servo drives are completely developed and manufactured in Germany. An additional Compax3 production site was established in the US. As a global servo drive controller, Compax3 is of course available all over the world. Service and support sites are located in the vicinity of all major industry locations - worldwide. The "Parker Authorized Distribution Partners" do play an important role in this context - well-trained and experienced application and support specialists will provide the necessary professional support in any situation.



Compax3H
High Power
High Performance
Servo Drive

Compax3S
High Performance
Servo Drive

Technical Characteristics - Overview

Device:	Current [A]		Supply voltage	Power [kVA]
Compax3	I _{cont.}	I _{peak} (<5 s)		
S025V2	2.5	5.5	1 *	1.0
S063V2	6.3	12.6	230/240 VAC	2.5
S100V2	10	20	3 *	4.0
S150V2	15	30	230/240 VAC	6.0
S015V4	1.5	4.5	3 * 400/480 VAC	1.25
S038V4	3.8	9.0		3.1
S075V4	7.5	15		6.2
S150V4	15	30		11.5
S300V4 ⁽¹⁾	30	60		25.0
H050V4	50	75	3 * 400/480 VAC	35.0
H090V4	90	135		70.0
H125V4	125	187.5		91.0
H155V4	155	232.5		109.0

Parker Servo Drive - PSD1

PSD1-S

unique features

- Single or three phases power supply
- Compact housing
- Particularly suitable for small machines

Standalone axis PSD1 S	Continuous current [A _{rms}]	Peak current A (≤ 2 s)
PSD1 SW1200	2	6
PSD1 SW1300	5	15



PSD1-M

unique features

- The most compact multi-axis servo system on the market
- One, two or three axis versions combined in one housing
- Common DC bus connection for energy exchange between drives

Multi axis PSD1 M	Continuous current [A _{rms}]	Peak current A (≤ 2 s)
PSD1 MW1300	5	10
PSD1 MW1400	8	16
PSD1 MW1600	15	30
PSD1 MW1800	30	60
PSD1 MW2220	2 + 2	4 + 4
PSD1 MW2330	5 + 5	10 + 10
PSD1 MW2440	8 + 8	16 + 16
PSD1 MW3222	2 + 2 + 2	4 + 4 + 4
PSD1 MW3433	8 + 5 + 5	16 + 10 + 10



Explosion Proof Motor for Zone 2 - EY Series

Advantages

- Brushless servo motors with explosion proof certification from a notified body.
- Conforming with CE/ATEX and International safety standard
- For an ambient temperature at 40°C or 60°C
- For gas and dust explosive atmospheres
- High precision
- High motion quality
- High dynamic performance
- Low cogging
- Compactness and robustness
- Maintenance free
- High power density (6 kW in a 155 square frame)
- Compatible with all popular drives



Technical characteristics

Motor type	Permanent magnet synchronous motors
Frame size	70 - 155 mm
Torque range	1.8 to 41 Nm
Speed range	Up to 6800 min ⁻¹
Number of poles	10
Mounting	Flange with smooth holes
Marking	CE / ATEX
Voltage supply	230 / 400 VAC
Conformance	ATEX 2014/34/EU Directive
	IEC/EN60034-1
	IEC/EN60034-5
	IEC/EN60079-0
	IEC/EN60079-15 (Gas)
Classification	II 3 GD Ex nA IIC T3 Gc IP65 / Ex tc
	IIC T200°C Dc IP65 (Gas or dust)
Ingress protection level	IP65
Connections	Connector

Explosion Proof Motor for Zone 1 - EX Series

Advantages

- Servo motors with explosion proof enclosure "d"
- Conforming with CE/ATEX and IECEx
- For an ambient temperature at 40°C or 60°C
- For gas and dust explosive atmospheres
- High precision
- High motion quality
- High dynamic performance
- Low cogging
- Compactness and robustness
- Maintenance free
- High power density (6 kW in a 155 square frame)
- Compatible with all popular drives



Technical Characteristics - Overview

Motor type	Permanent magnet synchronous motors
Number of poles	10
Torque range	1.6 ... 35 Nm
Speed range	1100...7600 min ⁻¹
Operating temperature	Up to +40°C (standard) Up to +60°C (with derating)
Marking*	ATEX/IECEx, KOSHA
Voltage supply	230 / 400 VAC
Conformance	ATEX 2014/34/EU Directive
	IEC/EN60079-0, IEC/EN60079-1 IEC/EN60079-31 standards
Classification	II 2GD Ex db IIB T4 Gb IP65 Ex tb IIIC T135 °C Db IP65 (Gas or Dust)
Ingress protection level	IP65 (standard)
Connections	Cable glands

Servo Motor - MH / MB

Features

- Large set of feedback option
- Customization
- Increase inertia option
- ATEX certification for MB105/145
- Options
 - Flying cables
 - Terminal box (power and resolver)
 - External encoder
 - Increased inertia
 - Brake
 - Feedback - resolver/incremental/SinCos/absolute encoder
 - Thermal protection (PTC for MB and KTY compatible for MH)
 - Second shaft



Technical Characteristics - Overview

Motor Type	Permanent magnets synchronous servo motor
Rotor Design	Rotor with surface rare earth magnets
Power supply	230 VAC or 400 VAC
Operating temperature	-10/+40 °C
Number of poles	4 for M_ 70 8 for M_ 105-145-205-265
Power Range	0.05...67 kW
Torque Range	0.2...285 Nm
Speed Range	0...10 000 min ⁻¹
Mounting	Flange with smooth holes B14, B3 option
Shaft End	Plain keyed shaft Plain smooth shaft (option)
Cooling	Natural ventilation Self-ventilation (option for size 105-145-205) Forced ventilation (option for size 105-145-205) Water cooled (option for size 145)
Protection Level (IEC60034-5)	IP64 IP65 (option)
Feedback sensor	Resolver Absolute EnDat or Hiperface Incremental Encoder
Voltage Supply	230 / 400 VAC
Temperature Class	Class F
Connections	Connectors Flying cables Terminal Box (see table option for combination)
Marking	CE / UL (size 145/205 under preparation)
Standards In compliance with:	73/23/CEE and 93/68/CEE EN60034-1 EN60034-5 EN60034-5/A1 EN60034-9 EN60034-14

Low Inertia Servo Motors - SMH / SMB

Features

- High number of feedback options
- Customised windings/voltages
- Increased Inertia option
- Multiple connection options



Technical Characteristics - Overview

Motor Type	Permanent magnets synchronous servomotor
Rotor Design	Rotor with surface rare earth magnets
Number of poles	8
Power Range	0.1 – 9.4 kW
Torque Range	0.19 – 60 Nm
Speed Range	0 – 7500 min ⁻¹
Mounting	Flange with smooth holes
Shaft End	Plain keyed shaft Plain smooth shaft (option)
Cooling	Natural ventilation
Protection Level (IEC60034-5)	IP64 IP65 (option/standard for SM_170)
Feedback sensor	Resolver Absolute Endat or Hiperface Incremental Encoder
Thermal protection	PTC for SMB and KTY compatible with SMH
Other options	Brake Second shaft Increased inertia
Marking	CE UL (SM_40 and SM_170 excluded)
Voltage Supply	80 / 230 / 400 VAC other voltage under request
Temperature Class	Class F
Connections	Rotatable connectors Flying cables Terminal Box (see table option for combination) Special connector (under request)

FL20 series Servo Drives and Servo Motors

Technical Characteristics

FL20 Servo drive	
Supply voltage	220 VAC -15% ~ +10% Single / Three Phase 380/400 VAC ±10% Three Phase
Power range	Single Phase 220V 0.05kW ~ 1.8kW Three Phase 220V 0.05kW ~ 4.5kW Three Phase 380V 1kW ~ 37kW
Frequency response	PMSM : 1.2kHz
Operating temperature	-10 °C ~ +40 °C
Humidity	Below 90%
Altitude	1000m or below
Vibration	Below 0.5G (4.9 m/s ²)
IP rating	IP20



Parker Servo Drives & Motors

Power Range 220V 0.05kW - 4.5kW
380/400V 1kW - 37kW

Gearheads and Gearmotors



Product Series		Gear Geometry	Performance	Configuration	Frame Size	Nominal Continuous Torque Nm (in-lb)	Radial Load N (lbs)	Backlash arc-min	Page
Generation II Stealth®	PS	Helical Planetary	High Precision	In-Line	60 – 115 mm	27 – 230 (240 – 2047)	1650 – 7500 (370 – 1683)	8 – <3	12
	PX	Helical Planetary	Mid Precision	In-Line	60 – 115 mm NEMA 23 – 42	20 – 160 (178 – 1424)	1550 – 6800 (348 – 1526)	10 – <6	16
	RS	Helical Planetary/ Spiral Bevel	High Precision	Right Angle	60 – 115 mm	13 – 220 (115 – 1958)	1650 – 7500 (370 – 1683)	14 – <6	20
	RX	Helical Planetary/ Right Angle	Mid Precision	Right Angle	60 – 115 mm NEMA 23 – 42	10 – 136 (89 – 1210)	1550 – 6800 (348 – 1526)	20 – <12	24
Generation I Stealth®	PS	Helical Planetary	High Precision	In-Line	180 – 220 mm	294 – 1808 (2616 – 16,091)	7900 – 58,000 (1775 – 13,020)	8 – <3	30
	RS	Helical Planetary/ Spiral Bevel	High Precision	Right Angle	180 – 220 mm	141 – 1808 (1255 – 16,091)	7900 – 58,000 (1775 – 13,020)	10 – <4	34
	PV	Planetary	Standard	In-Line	40 – 115 mm NEMA 17 – 42	3.5 – 148 (31 – 1317)	190 – 10,555 (43 – 2370)	15 – <12	40

High Force Electro Thrust Cylinder - ETH



Overview:

The ETH electric cylinder closes the gap between pneumatic and hydraulic actuators; it can act as a suitable alternative to both in many applications and can have the added benefit of increasing the reliability of the production process. Taking the costs for air and oil into consideration, you will find that in most cases an electromechanical system such as the ETH electro cylinder offers the more economical solution. Combined with a wide choice of accessories, the ETH becomes a highly customisable solution, suitable for a variety of applications.

Technical Characteristics - Overview

Type	ETH Electro Cylinder
Frame sizes	ETH032 / ETH050 / ETH080 / ETH100 / ETH125
Screw lead	5, 10, 16, 20 mm
Stroke	up to 2000 mm
Traction/thrust force	up to 114 000 N
Speed	up to 1.3 m/s
Acceleration	up to 15 m/s ²
Equivalent dynamic axial force at a lifetime of 2500 km	up to 49 600 N
Efficiency	up to 90 %
Repeatability	up to ± 0.03 mm
Protection classes	IP54 IP54 with stainless steel screws IP65
Drive	Inline: Axial drive or parallel drive with high performance toothed belt
Directives	2011/65/EC: Conform to RoHS  2014/34/EU Equipment group II Category 2, authorized for gas atmospheres zone 1 and zone 2
Classification	ETH032, 050:  II 2G Ex h IIC T4 Gb ETH080*:  II 2G Ex h IIB T4 Gb Conformity certificate number: EPS 13 ATEX 2 592 X (X: there are special specification of use, please observe the intended use of the ATEX Cylinder)

High Load Rodless Linear Actuator - HLR

Features

- Compact outside dimensions of 69 x 64 mm and 82 x 76.5 mm
- Rigid aluminum extrusion profile for self-supporting solutions
- High load capacity up to 3847 N (based on a theoretical lifetime of 8.000 km)
- High thrust force up to 900 N
- Motor can be mounted on four sides for highest flexibility
- Acceleration up to 50 m/s²
- Velocity up to 5 m/s
- Last generation linear guide and timing belt for minimised noise emission
- Stainless steel cover as standard for the use in harsh environment
- Easy accessible lubrication bore for reduced maintenance effort
- Extreme straight movement over the complete stroke for building up reliable multi-axis solutions
- High repeatability for highest customer requirements.



Technical Characteristics - Overview

Actuator size	HLR070	HLR080
Drive	Belt drive	
Guiding System	Linear guide	
Width x Height [mm]	69x64	82x76.5
Max. normal load Fz [N]	3847	
Max. thrust force Fx [N]	500	900
Repeatability [mm]	±0.05	
Max. velocity [m/s]	5	
Max. acceleration [m/s²]	50	
Max. travel length [mm]	2500	3500
Distance [mm/rev]	105	125
Conformity	2011/65/EG: ROHS compliant	
	 RoHS	
Protection class	IP40	

I-Force and Ironcore Linear Motors

Linear Motor Design Benefits

- High speeds
- High accelerations
- Fast response – 100 times that of a mechanical system
- Stiffness – spring rate better than a mechanical system
- Zero backlash – direct drive technology
- Maintenance free operation – mechanical simplicity due to reduced component count
- Long travels without performance loss
- Suitable for vacuum and extreme environments



I-Force Ironless Motors Selection

Model	AKD-Z15	110	210	310	410	610
Page	6	8	12	16	20	24
Cross Section – H x W mm (in)	51 x 14 (2.01 x 0.55)	50 x 21 (2.05 x 0.82)	57.1 x 31.7 (2.25 x 1.25)	86.4 x 34.3 (3.40 x 1.35)	114.3 x 50.8 (4.50 x 2.00)	191 x 64.7 (7.50 x 2.50)
Continuous Force – N (lbs)	12 (2.7)	44 (10)	104.5 (24.8)	262 (58)	878 (197)	1614 (363)
Peak Force – N (lbs)	42.1 (9.5)	200 (45)	494 (110)	1170 (263)	3928 (883)	7261 (1632)
Maximum Track Length – mm (in)	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Modular Single Piece	N/A	914 (36)	1219 (48)	1676 (66)	1829 (72)	N/A
Cooling	–	–	Internal air cooling manifold available	Internal air cooling manifold or liquid cooling available	Internal air cooling manifold or liquid cooling available	Internal air cooling manifold or liquid cooling available
Hall Effect Devices	None	None, Imbedded	None, Imbedded	None, Imbedded	None, Imbedded	None, Imbedded



Ripped Ironcore motor selection

Model	R5	R7	R10	R16
Cross Section – H x W mm (in)	37.5 x 55 (1.476) x (2.165)	37.5 x 70 (1.476 x 2.756)	58 x 100 (2.28 x 3.94)	58 x 160 (2.28 x 6.30)
Continuous Force – N (lbs)	90 (22)	462 (104)	1121 (252)	2230 (501)
Peak Force – N (lbs)	325 (73)	1761 (396)	4097 (921)	7433 (1671)
Maximum Track Length – mm	160 or 240	160 or 240	180 or 240	180 or 240
Cooling	–	–	–	–
Hall Effect Devices	Optional	Optional	Optional	Optional

FLUID CONNECTORS GROUP



EO-2 Fittings

EO-2 version is equipped with soft seal to prevent leakage. Suitable for applications involving high vibrations & pressure peaks.



Parker O-Lok O-Ring Face Seal Fittings (ORFS)

Soft seal fittings provide leak free connections for high pressure hydraulic systems. Excellent where reliability, versatility and ease of assembly are important factors.



EO-2 Progressive Ring Fittings

For use in high pressure industrial applications. Available in various sizes & configurations for utmost flexibility.



Triple-Lok JIC 37 Fittings

Triple-Lok is a universal 37° flared fitting for medium pressure applications. Usable with metric or inch size tubes, or hoses.

EO2 PLUS



EO PLUS



EO2 FORM



EO - New Generation Fittings

- New high performance Tube Fittings
- Highest pressure ratings up to 800 bar
- Corrosion resistance - 500 hrs. against white rust
- Chromium6 free surface treatment
- Reduction of tightening torques up to 25%
- Easier and safer assembly
- Stronger materials
- New design



EO-DUR Stainless Steel Fittings

EO-DUR fittings with specially coated nuts are ideally suited for use in chemical, process & offshore industries.



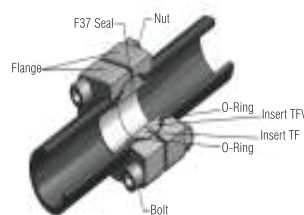
EO Brass Fittings

EO brass fittings are available in different designs of EO standard range and approved for use in medium corrosion environments such as ship-buildings, central lubrication and plant construction.



Metru-Lok Medium Pressure Brass Tube Fittings

One-piece Metru-Lok is ready to use bite type fitting for use with copper or plastic tubing.



Parflange
F37
non-welded flange system

Non-Welded Technology

Parflange F37 non-welded piping systems utilize standard SAE Code 61/62, ISO 6162 and ISO 6164 flange interfaces. Parflange F37 is fully complemented with Parker's fabrication equipment and a broad range of interconnect components, valves, clamps and seamless tubes. The Parflange F37 system utilizes two core connection technologies to achieve leak-free non-welded connections: F37 Flare and F37 Retaining Ring.



Eo-Karrymat Presetting Machine
Portable pre-assembly device for EO tube connections.



Eomat PRO
Assembly machine for the cost-effective production of tube lines with EO fittings. The machine is designed for assembly of Parker EO-2 and Progressive Ring fittings, according to DIN EN ISO 8483-1 (DIN 2352), with common tube materials (steel, stainless steel, copper, nylon).



Eomat UNI
Universal assembly machine for hydraulic tube fittings. The EOMAT UNI is an electro-hydraulic machine for the assembly of: EO-2EO Progressive Ring PSR/DPR and Triple-Lok® 37° flared tube fittings.



Eomat ECO
Mobile assembly machine for EO hydraulic fittings to DIN EN ISO 8434-1. The EOMAT ECO is a portable machine for the assembly of EO-2 and EO Progressive Ring fittings. This electro-hydraulic unit is simple to operate; the assembly pressure is set on the digital display. The equipment is simple to use, robust and easy to move. The EOMAT ECO is an ideal piece of equipment for hydraulic service.



Prestoplok 2 Push-in Fittings - Thermo plastic Body
Prestoplok 2 is an instant fitting for plastic tubing.



Check Valves
Check valves for in line mounting or cartridge systems. Several unique features (double seat, no seal, guided poppet, oil retention groove in the poppet and poppet-guide cushion) that ensure years of trouble-free operations.



Brass Adaptors
Comprehensive range of adaptors for versatile connections.



2-way Ball Valves for Pneumatics and Low Pressure
2-way ball valves designed for pneumatic systems and other low pressure applications.



Presto-NTA Air Brake Fittings
Presto-NTA push-in brass instant fitting for use with polyamide airbrake tubing. Available in 2 types: reusable & permanent.



Tubes and Tube Bends
Seamless EO tubes and tube bends according to DIN 2391. Material: St 37.4 steel and 1.4571/1.4541 stainless steel



EO Non-Return Valves

Non-return valves with sealing by using a 90° cone with a seal of synthetic material. Valve has a lift stop for safe free outlet.



EO Tube Clamps

Sizes:

series A : 6 to 55 mm tube o.d.

series B : 6 to 42 mm tube o.d.

series C : 8 to 220 mm tube o.d.

Material:

Polypropylene, Polyamide 6,

Aluminium



EO Shut-Off/ High Pressure and 2-way Bal valves Shut-off and High Pressure Valves

Product range:

series L from 6 to 35 mm tube o.d.,

series S from 6 to 38 mm tube o.d.



Parker Push-Lok Hose

Parker Push-Lok hoses

for low-pressure applications,

- robots in the automotive

industry, packaging machines,

pneumatic tooling etc.

Easy assembling without clamps.

Also available in "free of any wetting
disturbance solvents"



Polyflex/Parflex High Pressure Thermoplastic Hoses

Pressure range up to 70 Mpa, with outstanding flexibility, low volumetric expansion, small bend radius, light weight. Single or multiple lines with crimped couplings.

Construction: Thermoplastic materials with reinforcement of fibre or steel wire braids or spirals.



Polyflex Products for Beverage and Domestic Applications

Beverage Industry:

Single line food quality tubing

made of (LDPE, PVC, PVDF,

PA and EVA), multi layered

extruded tubing "Python" thermally

insulated multicore bundles,

thermoplastic "TrueSeal" fittings

and associated products.



Polyflex Thermoplastic Ultra High Pressure Hoses

Pressure range from 70 Mpa to 400MPa, low volumetric expansion.

Applications: Hydraulic tools, tension elements, test rigs, metal forming and off-shore. Crimped couplings of special steel with maximum operating safety.



Polyflex Ultra High Pressure Thermoplastic Hoses for Water Jetting Technology

For pressure upto 400 Mpa, low volumetric expansion, excellent impulse resistance.

Application: High pressure cleaning, tube cleaning, concrete repair, sewer cleaning and repair, water jet cutting, crimped couplings in special steel of maximum operating safety.



Polyflex Thermoplastic Hoses for Surface Finishing.

Low and high pressure applications, excellent chemical resistance against paints and solvents, electric conductivity throughout service life.

Application: Paint Spraying, 2 Component equipment. Crimped couplings of free-cutting or stainless steel.



Polyflex/Parflex PTFE Hoses

With Excellent resistance against aggressive media.

Application: chemical Industry, low and high pressure plants for expanded plastics, technical gases.

Crimped couplings for assembly at your work shop according to Polyflex/Parkrimp assembly system.



Polyflex Products for Offshore Technologies

Single line hoses and hose umbilicals for On-and Off-shore applications. Long length, high temperature, light weight hoses for Subsea Controls.



Parker PAGE Hose

Parker PAGE Hose, are leaders in the design and manufacturing of Fluoropolymer and Fittings Application: Chemical Transfer, Cooling Lines, Oil & Gas Transfer, Food & Beverage, Air & Gas Transfer, Pig Tails, Robotics, Hot Glue Applicators, Compressor Discharge, Paint Lines, Powder Coating, Trim Tabs, Dispensing Sealants,



Parflex Multitube®

Multitube's bundles offer protection to the individual tubes while being routed through a plant or facility. We offer a wide range of choices for metal and plastic tubes, tubing lengths, jacket materials and colour options. Specialised Other testing and third party certifications are available upon request. Pds offered are Metal tube products, Plastic tube bundles, Steam and electric trace bundles. Temptube, Light & heavy trace, Self-regulating low and high temperature heated bundles, Continuous and intermittent steam purge bundles, Analyzer heated and unheated bundles



Parkrimp Compact No-skive Hose

Compact hose with small bend radius & higher pressure ratings.



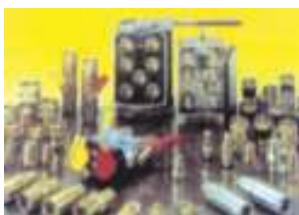
Quick Connect Couplings for Industrial & Process Industries

Couplings with ball or screw-locking mechanism available in broad range of materials and seal compounds. Used in hydraulic & fluid handling applications.



High Pressure Quick Couplings

High pressure well proven designs for ease of connection & leakfree performance



Agricultural Hydraulic Couplings

Quick couplings and multi-coupler systems with ball locking mechanism designed for applications like hydraulic connection between implements and tractors, excavators, loaders, tools, jacks and other hydraulic systems.



Diagnostic Couplings

Diagnostic couplings provide easily accessible test points for performance testing of hydraulic and pneumatic systems, enabling "early detection" high equipment efficiency and long life.



ParClean No-Skive. High Pressure Cleaning Hose 463 / 493

Pressure-washing applications. For use with water with constant temperatures up to 120o °C. The black or blue cover is highly abrasion & chemical resistant. Extremely flexible, easy to handle.



Parkrimp No-Skive Compact hose 691

Twinhose for forklift trucks High abrasion resistant - constant pressure values



Pneumatic

Quick couplings
Meet ISO 6150-B, ISO 6150-C
or European standards.
Offers better flow characteristics
on any type of pneumatic
applications.



Parkrimp Multispiral No-skive Hose

Complete range of
Multispiral from 4 SP/4SH,
SAE 100R12, R13 and R15.
No skiving required.
Parkrimp No-Skive = Connection
with safety.



Snap-tite

Snap-tite is a manufacturer of
innovative high-pressure fluid
power components for oil and gas,
industrial and research markets.

- QuikXChange quick disconnect
coupling specifically for excavator
attachments.
- 75 Series Quick Disconnect,
Fire Safe to API 16D
- Multi coupling panels, Sub-Sea
Connects under pressure
- Directional Control Valves,
All stainless steel construction



Service Junior

Service Junior wireless is a digital
manometer featuring a MIN/MAX
display function. Full scale (FS)
accuracy is $\pm 0.5\%$ based on the
upper limit of the measurement
range. Dynamic pressure peaks are
measured at a scanning rate of
10 ms (100 measurement values
/second). The MIN/Max memory is
continuously updated and rewritten



Rectus Coupling

RECTUS quick connect couplings
have stood for the highest precision
and reliability. The pneumatic
systems are used in many
industries, primarily for compressed
air but also for connections with
liquid media.



Service Plus

The new Serviceman Plus is a
mobile, extremely robust and
easy-to-use measuring device for
many measurement tasks in mobile
hydraulics or stationary hydraulic
sensors.

Available in 2 designs:

- With 2 inputs for analogue Parker
sensors
- With a CAN interface for up to
3 Parker CAN sensors



TEMA Couplings

With their many innovative
design variants, TEMA quick
connect couplings are among
the best hydraulic connecting
elements in the world. They
particularly stand out for their
extremely low pressure drop and
maximum power transmission.



Service Master Plus

This diagnostic tool for any fluid
power system is more than just a
meter; it incorporates data
measurement, display, and
on-screen analysis to provide
increased functionality that extends
far beyond standard meters
currently on the market. Combining
CAN bus sensor communication
protocol with traditional analog
inputs, the Parker Service Master
Plus has 24 channels for a variety
of inputs and outputs. In addition,
this unit incorporates multiple data
interfaces for connectivity and data
storage, a variety of display options
for user preference and storage
capabilities of up to one billion
measured values.



SensoControl Flow Transducers and Turbine

Flow measurement in hydraulic systems either as turbine, poppet type sensor with high dynamic resolution or gear counter for high precision measurements.

SCFT turbine:

4 measurement ranges, up to 600 l/min. high pressure-resistant up to 400 bar, integrated pressure and temperature measuri



SensoControl Test points and Adaptors

Broad range of EMA measuring points and adaptors in galvanized finish for rapid and simple adaption of sensors and measuring equipment to hydraulic systems.

Plug and screw designs with various threads and seal forms are available. EMA measuring points can be connected under pressure.



SensoControl Flow Temperature Sensors

Temperature sensors for fixed installation or mobile service.



SensoControl Pressure Sensors

Pressure sensors with piezo or thin film technology. Heavy-duty stainless steel design. Linearized output signals for measurement ranges up to 600 bar. Available as a combined designed with pressure and temperature sensor.



SensoControl Hand-held measuring device

Hand-held measuring devices for services and diagnostic on-site to record all systems parameters. The devices are easy to operate and rugged. Connection to a printer and



SensoControl Measuring Systems

Complete diagnostic system for pressure, temperature, flow and rotation. Simple to operate; particularly suitable for on-site service use. Kit available with broad range of sensors and adaptors.



KarryKrimp 2 Crimping Machines

Portable hose assembly machine for fast and safe production of hose assemblies. The KarryKrimp 2 machines are simple to operate. No gauges to set. No special skills required.

Can crimp the following hoses:

- 1+2 brads hoses from DN 06 to DN 32 (size -4 to -16)
- 3+4 layer hoses from DN 06 to DN 25 (size -4 to -16)
- 4SH+6 layer hoses in DN 20 and DN 25 (size - 12 and -16)



Parker Hose Cutting Machine TH3-1

Designed to cut hydraulic hoses with textile fibre braid reinforcement and 1-6 steel wire layer reinforcement up to SAE 100R15.



Adjustable Hose Press

TH 8-520-Basic model with manual control

TH 8-520.E - Machine with electronic control

This adjustable hose press can be used for crimping all Parkjer No-Skive hose types



EO Tube Bending and Cutting Tools

- Tube cutting tool AV 6/42
- Combined tube cutting and bending tool BAV 6/12
- Tube bending tool for tubes with o.d. from 6 to 25 mm
- Programmable tube bending tool BVP 6/18 for exact repetition of bending operations.



EO Pre-Assembly and Flaring machine EOMAT III/A

Electronically controlled hydraulic drive unit for:

- assembly of EO-2 fittings and cutting rings
- flaring of steel and SS tubes (material 1.4571) with an outer diameter of 4 to 42 mm.

Safe, reproduceable assembly results from combined pressure and displacement measurement. User-friendly menu based control. Short cycle times.



Parflange 1040 74° and 180° Flaring Machine

Automated machine for long run production

This orbital flaring machine is designed to flare tubes:

- a) o.d. 6 to 50 mm (1/4" to 2") for Triple-Lok/JIC 37° fittings assembly.
 - b) o.d. from 6 to 38 mm (1/4" to 1.1/2") for Parker O-Lok/ORFS fittings assembly.
- Easy to operate, No pressure setting nor tool adjustment required. Fast and efficient.

TexLoc™ Products



Flexible Fluoroplastic Tubings

- Available flexible convoluted and corrugated tubing products
- Superior flex life, resist chemicals in harsh environment, Offer reduced bend radius perform at elevated temp, handle static dissipative and vacuum service
- Available in PTFE, PFA, FEP, ECTFE, ETFE, MFA, PEEK™, PVDF
- Application in the chemical, pharmaceutical and pulp and paper industry
- Comply to standards SAE AMS-T-81914 / AMS-H-27267



Precision Fluoroplastic Tubings

- Innovative Precision tolerance tubings
- Material Capabilities-PTFE, FEP, PFA, ETFE, ECTFE, MFA, THV, PEEK™ and ULTEM™
- Application - Environmental and Water sampling, automotive and marine, Petroleum, Chemical Processing, Medical and Pharmaceutical, Semiconductor, Electronics

TEXMED™ Products



Fluoroplastic Medical Heat Shrink

- Wide range of USP class
- VI materials in TEXfluor™ PTFE, FEP, PFA, ETFE, MFA, Polyolefin
- Encompasses expansion ranges from 1.3:1 up to 5:1 in PTFE material
- Application for medical devices and instrumentation

Valve & Added Service



PARKER TRACKING SYSTEM (PTS)

PTS helps customer reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements. Using our web-based application, PTS generates a unique identification code for each hose assembly which is printed on a durable barcode or RFID label.

PTS can eliminate costly hours of equipment downtime, helping customers achieve greater productivity and profitability.

www.parker.com/pts



PARKER ONSITE

Parker OnSite brings our solutions to fabricate hose and tube assemblies to your worksite, even in the most remote locations. Parker OnSite containers are built to order and are ideal maintenance and repair solution for Oil Fields, Mining, Forestry, Construction and any other industry that can't afford to have extended downtime.

www.parker.com/onsite



COMPLETE PIPING SOLUTIONS (CPS)

Combining the best non-welded piping system with a complete engineered piping service package, CPS offers your project incomparable assurance, efficiency and value.

CPS centers feature our Parflange F37 technology supported with engineering consultation, design, state-of-the art piping fabrication and installation.

www.completepipingsolutions.com



HoseFinder
Hose Selection Mobile App
India Version

MOBILE PHONE APP

Need a hose or fitting? We'll help you find it. Configure your selection by using Parker's STAMP process, or browse by category for a range of hoses, fittings and accessories. It's like a catalog in your pocket, only better. How can something so powerful, be so small?

Hydraulic Hose

421SN

Hydraulic

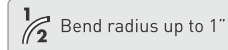
EN 853 / SAE 100 R1 AT

**Application:**

Recommended for medium pressure hydraulic oil lines

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One braid steel wire
Outer Cover : NBR-PVC synthetic rubber

**Application:**

- 40°C to 100°C (-40°F to 212°F)

Impulse Cycles:

Specified - 1,50,000 cycles.
Tested upto - 3,00,000 cycles.

421SN High Temperature

Hydraulic

EXCEEDS EN 853 1SN / SAE

**Application:**

Recommended for medium pressure hydraulic oil lines & up to 135°C

Construction:

Inner tube : CPE - Synthetic rubber
Reinforcement : One braid steel wire
Outer Cover : CPE / CR synthetic rubber

Temp. Range:

- 40°C to 135°C (-40°F to 275°F)

SLIMLINE

Hydraulic

EN 857 1SC

**Application:**

Recommended for medium pressure hydraulic oil lines, compact design supports at constraint installation routing.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One high tensile steel wire braid
Outer Cover : SBR - Synthetic rubber

Temp. Range:

- 40°C to 100°C (-40°F to +212°F)

301SN

Hydraulic

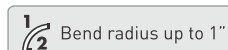
EN 853 2SN / SAE 100 R2AT

**Application:**

Recommended for HIGH pressure hydraulic oil lines

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two braid steel wire
Outer Cover : NBR-PVC synthetic rubber

**Temp. Range:**

- 40°C to 100°C (-40°F to 212°F)

Impulse Cycles:

Specified - 2,00,000 cycles.
Tested upto - 4,00,000 cycles.

301SN High Temperature Hydraulic

Exceeds EN 853 2SN / SAE 100R2AT



Application:

Recommended for high pressure hydraulic oil lines & up to 135°C

Construction:

Inner tube : CPE - Synthetic rubber
Reinforcement : Two braid steel wire
Outer Cover : CPE / CR synthetic rubber

Temp. Range

- 40°C to 135°C (-40°F to 275°F)

462PM / SLIMLINE

Hydraulic
EN 857 2SC



Application:

Recommended for high pressure hydraulic oil lines, compact design supports at constraint installation routing.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two braid steel wire
Outer Cover : SBR synthetic rubber

Temp. Range:

- 40°C to +100°C (-40°F to +212°F)

471 / 471TC

Hydraulic - Tough Cover
EN 857 TYPE 2SC



Application:

Petroleum base hydraulic fluids & lubricating oils.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two braid steel wire
Outer Cover : NBR - PVC Synthetic rubber Smooth Cover for TC and Wrap Finish for regular Hose

Temp. Range:

- 40°C to 100°C (-40°F to +212°F)

Type Approvals: ABS

436

Hydraulic - Compact High Temperature (150°C)
SAE 100R16



Application:

Recommended for HIGH pressure hydraulic oil lines & up to 150°C

Construction:

Inner tube : CPE - Synthetic rubber
Reinforcement : Two braid steel wire
Outer Cover : CPE - Synthetic rubber, blue colour cover

Temp. Range:

- 48°C to 150°C (-55°F to +302°F)

MH-174™

BCS 174-1992 Underground Mining

**Application:**

Recommended for medium-high pressure hydraulic oil lines & for underground mines application.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two high tensile braid steel wire
Outer Cover : CR - Synthetic rubber, flame resistant

Temp. Range:

- 40°C to +100°C (-40°F to +212°F)

Impulse Cycles:

Tested upto - 1,00,000 cycles @ 35 CPM

601 PM / EN 854 R3

Hydraulic

**Application:**

Recommended for hydraulic oil lines, heavy duty transmission oil cooler lines

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two fibre braid
Outer Cover : SBR - Synthetic rubber

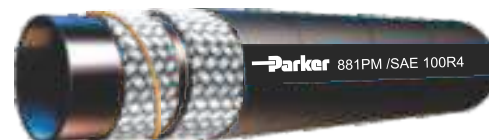
Temp. Range:

- 40°C to +100°C (-40°F to +212°F)

881PM / SAE 100R4

Hydraulic

Suction and Return Line

**Application:**

Recommended hydraulic return lines / suction lines

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Multiple layers of fibre braid and one helical wire
Outer Cover : CR - Synthetic rubber

Temp. Range:

- 40°C to +100°C (-40°F to +212°F)

Type Approvals: ABS

EN 854 R6 / SAE 100R6

Hydraulic

**Application:**

Recommended for hydraulic low pressure lines, return lines & drain lines

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One synthetic textile braids
Outer Cover : SBR - Synthetic rubber

Temp. Range:

- 40°C to +100°C (-40°F to +212°F)

Powerflex™

Hydraulic

More Power - More Flexibility

Application:

Recommended for high pressure hydraulic oil lines. **Highly flexible & resistant to impulses.**

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two special high tensile steel wire braid
Outer Cover : SBR - Synthetic rubber

Temp. Range:

- 40°C to 100°C (-40°F to +212°F)



Hitech Hose

Hydraulic

Hot Oil

Application:

Pressurised hot oil lines and rotary oil / air compressor lines.

Construction:

Inner tube : CPE - Synthetic rubber
Reinforcement : High tension braid steel wire
Outer Cover : Fibre braid

Application:

- 40°C to 150°C (-40°F to 302°F)



401 / Pilot Hose

Application:

Recommended for low pressure lines with installation constraints. Ideal for severe installation like engine compartment.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One braid steel wire
Outer Cover : CR synthetic rubber

Temp. Range:

- 40°C to 120°C (-40°F to 248°F)

Type Approvals:

BV, LR, MED



Super Jack

Hydraulic Jack Hose

Application:

Recommended for constant high pressure hydraulic oil lines, for application like hydraulic jacks.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two steel wire braid
Outer Cover : SBR - Synthetic rubber

Temp. Range:

- 40°C to 100°C (-40°F to +212°F)



701

Hydraulic EN 856 4SP



Application:

Recommended for very high pressure hydraulic oil lines

Construction:

Inner tube : CR - Synthetic rubber
Reinforcement : Four spiral steel wire
Outer Cover : CR synthetic rubber

Temp. Range:

- 40°C to 100°C (-40°F to 212°F)

Impulse Cycles:

Specified - 4,00,000 cycles.
Tested upto - 8,00,000 cycles.

731

Hydraulic EN 856 4SH



Application:

Recommended for very high pressure hydraulic power lines

Construction:

Inner tube : CR - Synthetic rubber
Reinforcement : Four spiral steel wire
Outer Cover : CR - synthetic rubber

Application:

- 40°C to 100°C (-40°F to 212°F)

Impulse Cycles:

Specified - 4,00,000 cycles.
Tested upto - 8,00,000 cycles.

Type Approvals:

ABS, BV, LR, MED

721

Hydraulic EN 856 R12



Application:

Recommended for medium pressure hydraulic oil lines & up to 135°C

Construction:

Inner tube : CR - Synthetic rubber
Reinforcement : Four spiral steel wire
Outer Cover : CR - synthetic rubber



Bend radius up to 1-1/2"

Temp. Range:

- 40°C to 135°C (-40°F to 275°F)

Impulse Cycles:

Specified - 5,00,000 cycles.
Tested upto - 10,00,000 cycles.

Type Approvals:

BV, LR, MED

781

Hydraulic EN 856 R13



Application:

Recommended for very high pressure hydraulic power lines, constant pressure on all hose sizes.

Construction:

Inner tube : CR - Synthetic rubber
Reinforcement : Four or six spiral steel wire
Outer Cover : CR - Synthetic rubber

Temp. Range:

- 40°C to +125°C (-40°F to 257°F)

Impulse Cycles:

Specified - 5,00,000 cycles.
Tested upto - 10,00,000 cycles.

Type Approvals:

ABS, BV, LR, MED

792PM / SPIRAFLEX



Hydraulic SAE 100 R15

Application:

Recommended for high pressure hydraulic power lines. Constant pressure on all hose sizes.

Construction:

Inner tube : CR - Synthetic rubber
Reinforcement : Four or six high tensile steel wire spiral
Outer Cover : SBR synthetic rubber

Temp. Range:

- 40°C to 125°C (-40°F to 257°F)

Impulse Cycles:

Specified - 5,00,000 cycles.
Tested upto - 10,00,000 cycles.

Type Approvals: MED

PUSH- LOK® 801 - Push - Lok Plus®



Multipurpose

Available Cover Colours

GRA RED YEL BLU GRN BLK

Application:

Pneumatic, Petroleum base hydraulic fluids, lubricating oils and antifreeze solutions. Diesel fuel - approved only when coupled with HY Series fittings.

Construction:

Inner tube : Synthetic rubber
Reinforcement : One fibre braid
Outer Cover : Synthetic rubber, MSHA accepted

Temp. Range

Air : +70°C (+158°F)
Water : +85°C (+185°F)
Oil : -40°C (-40°F to 257°F)

201

Transportation

SAE 100R5 SAE J140 All / D.O.T. FMVSS 106 All-Brake

**Application:**

Petroleum base hydraulic fluids and lubricating oils, diesel and antifreeze solutions.

Construction:

Inner tube : Synthetic rubber
Reinforcement : One fibre braid and one steel wire braid
Outer Cover : Fibre braid

Temp. Range:

- 40°C to 150°C (-40°F to +302°F)

213

Transportation

SAE J140 AI / D.O.T. FMVSS 106 AI - Air Brake

**Application:**

Petroleum base hydraulic fluids and lubricating oils, diesel and antifreeze solutions.

Construction:

Inner tube : PKR®
Reinforcement : One fibre braid and one steel wire braid
Outer Cover : Fibre braid

Temp. Range:

- 45°C to 150°C (-50°F to 302°F)

387

Hydraulic - Constant Working Pressure ISO 18752 CLASS 210-AC/BC/CC

Application:

Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner tube	:	Synthetic rubber
Reinforcement	:	One or two braid steel wire (4 spiral for size -20, -24 and -32)
Outer Cover		
Standard Cover	:	Synthetic rubber
Tough Cover	:	Synthetic rubber abrasion resistant
Super Tough	:	Synthetic rubber super abrasion resistant

Temp. Range:

Standard Cover:
- 40°C to 100°C (-40°F to +212°F)-AC/BC
Tough Cover / Super Tough
- 40°C to 125°C (-40°F to +257°F)-CC

Performance



487

Hydraulic - Constant Working Pressure ISO 18752 CLASS 280-AC/BC/CC

Application:

Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner tube	:	Synthetic rubber
Reinforcement	:	One or two braid steel wire (4 spiral for size -16, -20, -24 and -32)
Outer Cover		
Standard Cover	:	Synthetic rubber
Tough Cover	:	Synthetic rubber abrasion resistant
Super Tough	:	Synthetic rubber super abrasion resistant

Temp. Range:

Standard Cover:
- 40°C to 100°C (-40°F to +212°F)-AC/BC
Tough Cover / Super Tough
- 40°C to 125°C (-40°F to +257°F)-CC

Performance



787

Hydraulic - Constant Working Pressure ISO 18752 CLASS 350 - BC/DC

Application:

Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner tube	:	Proprietary Synthetic rubber
Reinforcement	:	Four or six spiral steel wires
Outer Cover		
Standard Cover	:	Synthetic rubber
Tough Cover	:	Synthetic rubber abrasion resistant
Super Tough	:	Synthetic rubber super abrasion resistant

Temp. Range:

Standard Cover:
- 40°C to 100°C (-40°F to +212°F)-BC
Tough Cover / Super Tough
- 40°C to 125°C (-40°F to +257°F)-DC

Performance



797

Hydraulic - Constant Working Pressure ISO 18752 CLASS 420 - BC/CC/DC

Application:

Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner tube	:	Proprietary Synthetic rubber
Reinforcement	:	Four or six spiral steel wires
Outer Cover		
Standard Cover	:	Synthetic rubber
Tough Cover	:	Synthetic rubber abrasion resistant
Super Tough	:	Synthetic rubber super abrasion resistant

Temp. Range:

Standard Cover:
- 40°C to 100°C (-40°F to +212°F)-BC
Tough Cover / Super Tough
- 40°C to 125°C (-40°F to +257°F)-CC/DC

Performance



esistant

Industrial Hose

GST® II General Service Hose Series 7093



Application: • Air (including oil mist), mild chemicals, water • Agriculture, construction, general industrial. Vacuum : Not Recommended	Construction: Construction: Inner tube : Black EPDM; ARPM Class C oil resistance Reinforcement : Multiple textile piles Outer Cover : Black EPDM; smooth finish Design Factor : 4:1	Temp. Range: -30°C to +125°C (-22°F to +257°F)
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Super MPT® Multipurpose Oil Resistant Hose - Nonconductive Series 7396



Application: Air, mid chemical, oil water Cooling lines for electric furnaces and pot lines; lubrication systems. Agriculture, construction, foundries, general industrial. Vacuum : Not Recommended	Construction: Construction: Inner tube : Black nitrile, ARPM Class A oil resistance Reinforcement : Multiple textile piles Outer Cover : Red chloroprene wrapped finish Design Factor : 4:1	Temp. Range: Standard Cover: - 29°C to 100°C (-20°F to +212°F)
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Super MPT® Multipurpose Oil Resistant Hose - Nonconductive Series 7397



Application: Air, mid chemical, oil water Cooling lines for electric furnaces and pot lines; lubrication systems. Agriculture, construction, foundries, general industrial. Vacuum : Not Recommended	Construction: Inner tube : Black nitrile, ARPM Class A oil resistance Reinforcement : Multiple textile piles Outer Cover : Black chloroprene wrapped finish Design Factor : 4:1	Temp. Range: - 29°C to 100°C (-20°F to +212°F)
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Airmaster Exceeds IS 446 : 1980 TYPE 3



Application: Recommended for high pressure rock drill and pneumatic service in drilling of quarries, construction & general industry.	Construction: Inner tube : NBR - Synthetic rubber Reinforcement : One light tensile steel wire braid Outer Cover : SBR - Synthetic rubber Design Factor : 4:1	Temp. Range: - 35°C to 70°C (-31°F to +158°F)
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Dragon Breath®

Hot Air Blower Hose

Series SW360



Application:

Hot air blower systems in-plant transfer; delivery, loading / unloading .
General industrial transportation.

Vacuum : Not Recommended

Construction:

Inner tube : Black EPDM
Reinforcement : Multiple tire cord wraps with helix wire
Outer Cover : SBR - Synthetic rubber
Design Factor : 4:1

Temp. Range:

- 34°C to +177°C Continuous
[-30°F to +350°F Continuous]

MAXIFLEX®

Lightweight Air Hose

Series 7308E



Application:

Air water, Heavy duty air tools, Compressors, Construction, General Industrial Mines Quarries

Vacuum : Not Recommended

Construction:

Inner tube : Black SBR
Reinforcement : Multiple textile piles
Outer Cover : Yellow SBR
Design Factor : 3:1

Temp. Range:

- 29°C to +100°C Continuous
[-20°F to +212°F Continuous]

MPW-1000®

High Pressure Wire Braid Multipurpose Hose

Series 7204



Application:

Air, Mild Chemicals, Oil , Water, Hot Asphalt, Glue, Oil, Tar and Wax, Steam, Biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline, High Pressure Washdown, Cleaning Containment Vessels General Industrial, manufacturing and Processing Plants, Refineries.

Vacuum : Not Recommended

Construction:

Inner tube : Black nitrile
Reinforcement : One wire braid
Outer Cover : Black chloroprene; perforated wrapped finish

Design Factor : 4:1 (10:1 Steam @ 150psi / 10.3 bar)

Temp. Range:

Steam : - 29°C to +187°C
[-20°F to +368°F]
Other : - 29°C to +149°C
[-20°F to +300°F]
Intermittent : 177°C (350°F)

Thoro-braid®

Medium Pressure Wire Braid Mine and Multipurpose Hose Series 7251



Application:

Air, Mild Chemical, Water, Heavy Duty Air Tools Compressors; Bull Hose, Drill Hose Dust Construction, General Industrial, Mines and Quarries

Vacuum : Not Recommended

Construction:

Inner tube : Black Chloroprene
Reinforcement : One or multiple wire braids
Outer Cover : Yellow nitrile/PVC, perforated wrapped finish

Design Factor : 4:1

Temp. Range:

- 29°C to 100°C [-20°F to +212°F]

Yellow Bird®

High Pressure Wire Braid Mine and Multipurpose Hose Series 7284 MSHA

**Application:**

Air, Water, Heavy Duty Air Tools
Compressors; Drill Hose Dust
Suppression in Mines,
Construction, General
Industrial, Mines and Quarries

Vacuum : Not Recommended

Construction:

Inner tube : Black SBR
Reinforcement : One wire braid
Outer Cover : Yellow nitrile/PVC,
perforated wrapped finish

Design Factor : 4:1

Temp. Range:

- 29°C to 100°C (-20°F to +212°F)

Stinger™ II

High Pressure Wire Braid Mine and Multipurpose Hose Series 7268E MSHA

**Application:**

Air, mild chemical, oil, water,
heavy duty air tools,
compressors; drill hose, dust
suppression in mines,
construction, general
industrial, mines and quarries

Vacuum : Not Recommended

Construction:

Inner tube : Black nitrile
Reinforcement : One wire braid
Outer Cover : Yellow nitrile/PVC;
perforated wrapped finish

Design Factor : 4:1

Temp. Range:

- 29°C to 100°C (-20°F to +212°F)

E-Z Form™

Multipurpose Hose Series 7219

**Application:**

Biodiesel (to B20 in dedicated
and non-dedicated service),
diesel, ethanol, gasoline oil.
Oil suction/return lines vehicle
fuel fill connector lines; drain
lines.

Buses, cranes, mobile off-road
equipment.

Vacuum : Full

Construction:

Inner tube : Black nitrile
Reinforcement : Multiple textile plies with
dual wire helix
Outer Cover : Black chloroprene: Greek
corrugated finish.

Design Factor : 4:1

Temp. Range:

- 29°C to +93°C (-20°F to +200°F)

Dry Cement Hose

1/8" SBR Tube Series SS135

**Application:**

Abrasive materials, dry
cement, lime, powders, silica
Bluk transport trucks
construction, general
industrial

Vacuum : Not Recommended

Construction:

Inner tube : 1/8" Black SBR; static
dissipating
Reinforcement : Multiple textile plies
Outer Cover : Black SBR; wrapped finish

Design Factor : 4:1

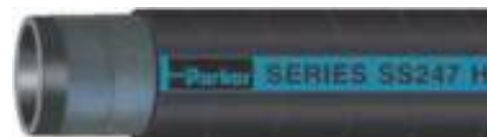
Temp. Range:

- 40°C to +83°C (-40°F to +180°F)

Heavy Duty Dry Cement Hose

1/4" SBR Tube

Series SS247



Application:

Dry Abrasive materials, cement, pebble lime, powders, sand, silica

In-plant transfer/loading. Bulk transport trucks construction. General industrial

Vacuum : Not Recommended

Construction:

Inner tube : 1/4" Black SBR, static dissipating.
Reinforcement : Multiple textile piles
Outer Cover : Black SBR; wrapped finish

Design Factor : 3:1

Temp. Range:

- 40°C to +82°C (-20°F to +180°F)

Super Injector Hose

Coke Injection Hose



Application:

Conveyance of abrasive material like fines and alumina etc.

Construction:

Inner tube : UHMWPE with Synthetic rubber on it.
Reinforcement : Multiple layers of fibre braid with helical wire
Outer Cover : Synthetic Rubber

Temp. Range:

- 40°C to +100°C Continuous

Sand Blast Hose

Natural Rubber Tube

Series 7244



Application:

Abrasive material, sand clean, condition or strip cement, steel, stone and other materials. Construction, general industrial, shipyard

Vacuum : Not Recommended

Construction:

Inner tube : Black natural rubber blend - static conductive
Reinforcement : Multiple textile piles
Outer Cover : Black natural rubber blend - static conductive

Temp. Range:

- 29°C to +71°C (-20°F to +160°F)

Super Injector Hose

Coke Injection Hose



Application:

Abrasive materials, debris, sand, construction, general industrial, mining, sand clean-up/recovery

Vacuum : Full

Construction:

Inner tube : 3/16" Black natural rubber; static dissipating
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Black SBR, wrapped finish
Design Factor : 4:1

Temp. Range:

- 40°C to +66°C (-40°F to +150°F)

Hot Tar & Asphalt Hose

Series SW387



Application: Abrasive materials, cement, grout, plaster, shotcrete construction, general industrial Vacuum : Not Recommended	Construction: Inner tube : Black SBR Reinforcement : Multiple textile piles Outer Cover : Black SBR; wrapped finish Design Factor : 2:1	Temp. Range: - 40°C to +82°C (-20°F to +180°F)
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EDHPN

Explosive Emulsion Dispensing Hose



Application: Dispensing explosive emulsion from mobile delivery unit to drilled pit at blasting site	Construction: Inner tube : NBR / SBR - Synthetic rubber with oil & abrasion resistance Reinforcement : One layer of high tensile steel wire braid Outer Cover : CR - Synthetic black rubber with high abrasion, flame, ozone and weather resistant	Temp. Range: - 40°C to +70°C (-40°F to +158°F)
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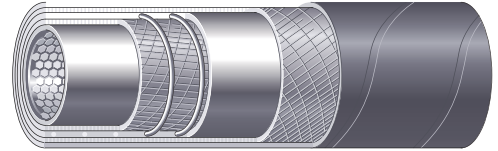
Slim Hole Rotary Hose

Oilfield Hose



Application: - Off-shore applications and hydraulic drill rigs - Suitable for petroleum based hydraulic fluids, synthetic esters, biodegradable hydraulic fluids, water-glycol based fluids and air.	Construction: Inner tube : CR - Synthetic rubber Reinforcement : Four steel wire spirals Outer Cover : CR - Synthetic rubber	Temp. Range: - 40°C to +121°C (-40°F to +250°F)
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Cergom 10



Application:

Suitable for compressed air and vacuum conveying systems for high abrasive materials, such as dry cement, coal powders, minerals, ceramic powders, glass fibers, etc. Developed for tough environments. Such as mining, steelworks, ceramic and glass industries, insulating material manufacturers, etc.

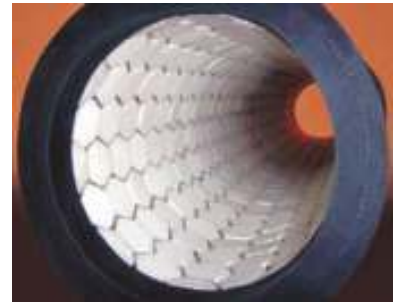
Vacuum : Full

Construction:

Inner tube : Ceramic hexagonal plates, embedded in BR/NR-rubber
Reinforcement : Synthetic textile fabrics, embedded steel wire helix and build- in copper wire to provide electrical continuity.
Outer Cover : NBR/SBR, Black, smooth, abrasion resistant, antistatic (R=2,0 M /m), Resistant to ageing and weathering.
Design Factor : 3:1

Temp. Range:

- 30°C to +70°C (-22°F to +158°F)



MPOSD

Multipurpose Suction & Discharge Hose



Application:

- Brine, crude oil, mild chemicals petroleum waste, sediments, sludge, slurries, water
- Frac tank transfer, oil field waste recovery, general industrial.

Vacuum : Full

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two braids steel wire with one helical wire
Outer Cover : SBR - Synthetic rubber

Design Factor : 4:1

Temp. Range:

- 40°C to +100°C (-20°F to +212°F)

BS & W™

Corrugated Oil Field Suction / Vacuum Hose Series 7213E



Application:

Brine, crude oil, mild chemicals, petroleum waste, sediments, sludge, slurries, water, Oil field waste recovery, general industrial

Vacuum : Full

Construction:

Inner tube : Black nitrile /SBR
Reinforcement : Multiple textile piles with wire helix
Outer Cover : Black nitrile /SBR corrugated wrapped finish.

Design Factor : 3:1

Temp. Range:

- 30°C to +85°C (-22°F to +185°F)

Wildcatter®

Hot Oiler Hose Series 7301



Application:

Hot asphalt, glue, tar, oil, wax. In-plant transfer: delivery trucks construction, general industrial, oil field

Vacuum : Not Recommended

Construction:

Inner tube : Black chloroprene
Reinforcement : Multiple wire braids
Outer Cover : Black- chloroprene wrapped finish

Design Factor : 3:1

Temp. Range:

- 40°C to +135°C / +149°C
(-40°F to +275°F / 300°F)

Translite® Tank Truck Hose Series 7216E



Application:

Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil in-plant and storage tank transfer delivery, transport.

Vacuum : Full

Construction:

Inner tube : Black nitrile
Reinforcement : Multiple textile piles with wire helix
Outer Cover : Black synthetic rubber; wrapped finish

Design Factor : 4:1

Temp. Range:

- 37°C to +82°C (-35°F to +180°F)

Petromax™ Corrugated Tank Truck Hose Series SWC316



Application:

Alkalies, Brine, Glycols, Herbicides, Mild chemicals, slurries, water agriculture, construction, general industrial, irrigation, surface mining

Vacuum : Full

Construction:

Inner tube : Black nitrile
Reinforcement : Multiple textile piles with dual wire helix
Outer Cover : Black nitrile corrugated wrapped finish.

Design Factor : 4:1

Temp. Range:

- 40°C to +93°C (-40°F to +200°F)

Titanflex® Corrugated Tank Truck Hose Series SWC609



Application:

Biodiesel (to B100 in dedicated service) diesel, ethanol, gasoline, oil in-plant and storage tank transfer, delivery transport.

Vacuum : Full

Construction:

Inner tube : Black nitrile
Reinforcement : Multiple textile piles with wire helix
Outer Cover : Black nitrile; corrugated wrapped finish

Design Factor : 4:1

Temp. Range:

- 40°C to +93°C (-40°F to +200°F)

Titanflex® Corrugated Tank Truck Hose Series SWC609R



Application:

Biodiesel (to B100 in dedicated service) diesel, ethanol, gasoline, oil in-plant and storage tank transfer, delivery transport.

Construction:

Inner tube : Black nitrile
Reinforcement : Multiple textile piles with wire helix
Outer Cover : Red nitrile; corrugated wrapped finish

Design Factor : 4:1

Temp. Range:

- 40°C to +93°C (-40°F to +200°F)

Fuel Dispensing Hose

BS EN 1360 TYPE3

Available in colours GRN BLU RED YEL

Application:

Recommended for low pressure petrol / diesel dispensing applications.

Construction:

Inner tube : NBR - Synthetic Rubber
Reinforcement : One braid steel wire
Outer Cover : NBR/PVC Synthetic Rubber

Temp. Range:

- 40°C to +93°C (-40°F to +200°F)

Type Approvals:
ATEX Approved*



LPG Hose

BS 4089 : 1989 Type 1

Application:

Recommended for LPG handling.

Construction:

Inner tube : NBR - Synthetic Rubber
Reinforcement : One high tensile steel wire braid
Outer Cover : CR - Synthetic Rubber

Temp. Range:

- 20°C to +45°C (-68°F to +113°F)



CNG Hose

SAE J30 R6

Application:

Compressed Natural Gas (CNG)

Construction:

Inner tube : Synthetic Rubber
Reinforcement : One fibre braid
Outer Cover : Synthetic Rubber

Temp. Range:

- 5°C to +100°C (-23°F to +212°F)



CNG 25

Exceeds SAE J30 R6

Application:

Transfer of CNG for industrial and general applications.
Used as a connector in CNG conversion kit for automobiles.

Construction:

Inner tube : Seamless synthetic rubber tube compatible with CNG
Reinforcement : One high tensile steel wire braid
Outer Cover : Heat, abrasion, weather and ozone resistant synthetic rubber

Temp. Range:

- 40°C to +93°C (-40°F to +200°F)



517 Refrigerant Hose



Application:

Use for New - Refrigerant
(R-134A, R404A, R407C)
Bus-Cooler line

Construction:

Inner tube : CIIR - Synthetic Rubber
Reinforcement : One braid steel wire
Outer Cover : EPDM Synthetic Rubber

Temp. Range:

- 30°C to +125°C (-22°F to +257°F)

Thermic Steam - I IS 10655 : 1999 Type 3 / BS 5342



Application:

Steam at high temperature

Construction:

Inner tube : EPDM - Synthetic Rubber
Reinforcement : One high tensile steel wire braid
Outer Cover : EPDM - Synthetic Rubber

Temp. Range:

Upto +184°C (Upto +363°F)

Thermic Steam - II IS 10655 : 1999 Type 3 / BS 5342



Application:

Steam at high temperature

Construction:

Inner tube : EPDM - Synthetic Rubber
Reinforcement : Two high tensile steel wire braid
Outer Cover : EPDM - Synthetic Rubber

Temp. Range:

Upto +205°C (Upto +401°F)

Spiralblast 20K™ Water Jetting Hose



Application:

Water blast / Jetting

Construction:

Inner tube : CR - Synthetic Rubber
Reinforcement : Four high tensile steel wire spirals
Outer Cover : SBR - Synthetic Rubber

Temp. Range:

0°C to +80°C Continuous
(+32°F to +176°F Continuous)

Spiralblast 25K™

Water Jetting Hose



Application:

Water blast / Jetting

Construction:

Inner tube : CR - Synthetic Rubber
Reinforcement : Four high tensile steel wire spirals
Outer Cover : SBR - Synthetic Rubber

Temp. Range:

0°C to +80°C Continuous
(+32°F to +176°F Continuous)

Spiralblast 30K™

Water Jetting Hose



Application:

Water blast / Jetting

Construction:

Inner tube : CR - Synthetic Rubber
Reinforcement : Four high tensile steel wire spirals
Outer Cover : SBR - Synthetic Rubber

Temp. Range:

0°C to +80°C Continuous
(+32°F to +176°F Continuous)

Spiralblast 36K™

Water Jetting Hose



Application:

Water blast / Jetting

Construction:

Inner tube : CR - Synthetic Rubber
Reinforcement : Four high tensile steel wire spirals
Outer Cover : SBR - Synthetic Rubber

Temp. Range:

0°C to +80°C Continuous
(+32°F to +176°F Continuous)

Spiralblast 50K™

Water Jetting Hose



Application:

Water blast / Jetting

Construction:

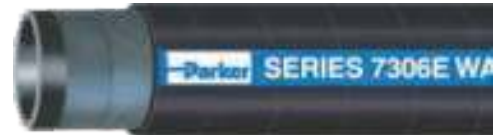
Inner tube : CR - Synthetic Rubber
Reinforcement : Four high tensile steel wire spirals
Outer Cover : SBR - Synthetic Rubber

Temp. Range:

0°C to +80°C Continuous
(+32°F to +176°F Continuous)

EPDM Water Discharge Hose

Series 7306E



Application:

Alkalies brine glycols, herbicides mild chemicals, slurries, water, agriculture, construction, general industrial, irrigation, surface mining

Vacuum : Not Recommended

Construction:

Inner tube : Black EPDM
Reinforcement : Multiple textile plies
Outer Cover : Black EPDM; wrapped finish
Design Factor : 3:1

Temp. Range:

-29°C to +82°C (-20°F to +176°F)

Super - Flex[®]

EPDM Water Suction Hose

Series 7392E



Application:

Alkalies brine glycols, herbicides mild chemicals, slurries, water, agriculture, construction, general industrial, irrigation, surface mining

Vacuum : Fill

Construction:

Inner tube : Black EPDM
Reinforcement : Multiple textile plies with wire helix
Outer Cover : Black EPDM; wrapped finish
Design Factor : 3:1

Temp. Range:

-40°C to +82°C (-40°F to +180°F)

Blue Thunder[®]

UHMWPE Chemical Hose

Series 7373T



Application:

Acid, chemicals, solvents. In-plant and storage tank transfer
Delivery transport.

Vacuum : Full

Construction:

Inner tube : Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement : Multiple textile plies with dual wire helix
Outer Cover : Blue EPDM; corrugated wrapped finish
Design Factor : 4:1

Temp. Range:

-40°C to +121°C (-40°F to +250°F)

Sewer Cleaning Hose

S6 - Predator[®] Hose

Features

- Easily identified orange cover signifies 2500 psi constant pressure
- Bonded construction provides excellent kink resistance and flexibility

Certifications

- NSWMA (National Solid Waste Management Assoc.)
- WASTEC (Waste Equipment Technology Assoc.)
- WEMI (Waste Equipment Management Inst.)



S9 - Predator® Hose

Features

- Easily identified blue cover signifies 3000 psi constant pressure
- Bonded construction provides excellent kink resistance and flexibility

Certifications

- NSWMA (National Solid Waste Management Assoc.)
- WASTEC (Waste Equipment Technology Assoc.)
- WEMI (Waste Equipment Management Inst.)



PXT Hose

Exceeds EN 853, EN 857 and SAE100R16 Performance

Features

- Exceeds EN 853, EN 857 and SAE100R16 performance.
- MSHA Certified, Abrasion Resistance Tough Cover.
- Up-to 25% Less Bend Radius than standard 2SC Hoses.
- 3.25x Impulse tested (6,50,000 Cycles) than 2SC Standard.
- Compatible with Parker 43 series hose fittings.

Application:

Petroleum base
Hydraulic Fluids and
lubricating oils.

Construction:

Inner Tube: Synthetic Rubber
Reinforcement: Two Braid Steel Wire
Cover: Synthetic Rubber-Tough Cover, MSHA

Temp. Range

-40°C to +100°C (-40°F to +212°F)

Impulse Cycles:

Tested to 6,50,000 Cycles



Limber 6K

High Performance Spirals

Exceeds 4SP/4SH, SAE100R15 and ISO 18752 Performance

Features

- Up-to 20% Improved force to bend compared to standard hose.
- 1/2 Bend Radius and Exceeds 4SP/4SH, SAE100R15 and ISO 18752 DC performance.
- 1,000,000 Impulse Cycles at 1.33 Working Pressure.
- Compatible with Bio-degradable Hydraulic Fluids and Water-Glycol Based fluids.
- MSHA Certified, Standard Cover.
- Hose rubber material meets REACH requirements.

Application:

Mineral Oil, Glycol,
Water-glycol
Emulsions, Water (0°C
to +70°C).

Construction:

Inner Tube : NBR Based Oil & Heat Resistant
Synthetic Rubber
Reinforcement: Four Spiral Steel Wire
Cover : Nitrile based Flame Resistant, MSHA
Cover

Temp. Range

-40°C to +120°C (-40°F to +250°F)

Impulse Cycles:

1,000,000 Cycles



Steam Hose - 18Bar

Construction:

Inner Tube	: Steam Resistance Butyl Based Black Synthetic Rubber.
Reinforcement	: Multiple layers of High Tensile steel wire Braid.
Cover	: Ozone, heat Weather Resistance EPDM based Synthetic Rubber.
Temp. Range	: -40°C to +210°C / -40°F to +410°F (Continuous with saturated Steam) + 245oC / +473oF (For intermittent Superheated Steam)

SILO S&D 1/8 SBR Tube Series SS135



Application:

Suction & Delivery of Dry
Abrasive Media, Dry
Cement Alumina Fly Ash
Applications

Vacuum : Full

Construction:

Inner Tube	: Synthetic Rubber
Reinforcement:	Multiple textile piles with wire helix
Outer Cover	: Synthetic Rubber

Design Factor : 4:1

Temp. Range

-40°C to +82°C (-40°F to +180°F)

Oiler Suction Discharge Hose

1/8 SBR Tube Series SS135



Application:

Brino, crude oil, mild
chemicals, petroleum
waste, sediments, sludge,
slurries, water. Oilfield
waster recovery, general
industrial.

Construction:

Inner Tube	: Black Nitrile
Reinforcement:	Multiple textile piles with Dual Wire helix
Outer Cover	: Black Synthetic Rubber Corrugated Finish

Design Factor : 3:1

Temp. Range

-37°C to +82°C
-35°F to +180°F

SUPER -FLEX[®] EPDM Water Suction Hose Series 7392E



Application:

Alkalies, Brine, Glycols,
Herbicides, Mild Chemicals,
Slurries, Water Agriculture,
Construction, General
Industrial, Irrigation,
Surface Mining.

Construction:

Inner Tube	: Black EPDM
Reinforcement:	Multiple textile piles with wire helix
Outer Cover	: Black EPDM; wrapped finish

Design Factor : 3:1

Temp. Range

-40°C to +82°C
(-40°F to +180°F)

EPDM Water Discharge Hose

Series 7306E



Application:

Alkalies, brine, glycols, herbicides, mild chemicals, slurries, water
Agriculture, construction, general industrial, irrigation, surface mining.

Vacuum : Not Recommended

Construction:

Inner Tube : Black EPDM
Reinforcement: Multiple textile piles
Outer Cover : Black EPDM; wrapped finish

Temp. Range

-29°C to +82°C
-20°F to +180°F

Cement Discharge Hose



Application:

For discharge of dry bulk materials, dry cement, sand, fly ash, gravels etc.

Construction:

Inner Tube : Synthetic Rubber
Reinforcement: High tensile synthetic textile
Outer Cover : Synthetic Rubber

Temp. Range

-40°C to +70°C
-40°F to +158°F

DRAGON RIG



Application:

Recommended for water well rigs, pneumatic services in quarries, construction and general industry.

Construction:

Inner Tube : Synthetic rubber
Reinforcement: Two wire braid
Outer Cover : Synthetic rubber

Temp. Range

-40°C to +150°C
(-40°F to +302°F)

Legris Products



Liquifit Fittings

(6302 series)

Used in Filters, Softeners, RO systems Dispensers, Heaters, Coolers, High Purity Water. Temp. range -10°C to +95°C @ 16 Bar.

Available in 3 colors white, grey and black.

Size available

Tube 1/4", 3/8", 1/2"

BSPT 1/8", 1/4", 3/8", 1/2"

NPT 1/8", 1/4", 3/8", 1/2"



Tubes and Hoses

The extensive compatibility of Legris fittings/technical tubes & hoses is ideally suited for many industrial and food applications

Nylon Tubing

Polyurethane Tubing

Fluoropolymer FEP Tube

Recoil Hoses

Polyethylene Tubing

Braided PVC Hose



LF 3000 Fittings

Polymer Push - in fittings, Flow control regulators Pneumatic function fittings and universal compression fittings

Working pressure: 20 bar maximum

Working temperature: -20°C to +80°C



Blow Gun

Maximum Flow (tolerance +/-10%)

Noise Level ISO15744

Spread of air cone

Complies with norms

Suitable Fluids: Compressed air

Working Pressure: 0 to 16 bar

Working Temp:- 20°C to +60°C



Lf3600 Instant Fittings

Chemical Nickel Plated

Brass Instant Fittings.

Suitable for fluids such as liquids and gases compatible with the material of the fitting.

Working pressure: maximum 30 bar

Working temperature: -20°C to +150°C



Ball Valves

Applications in industrial automation, fluid and process control Nickel Plated Brass

Ball Valve Fluoropolymer series

Ball Valve Lockable Ball Valves



LF 3900 / LF 3800 Instant Fittings

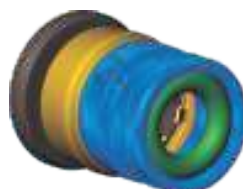
Stainless steel instant and function fittings

All Fluids compatible with fitting and tubing materials

Working pressure: 30 bar

Working temperature: -20°C to +150°C

Application: Food Process, Medical, Pharmaceutical, Chemical, Paper Industries



Carstick Cartridges

Assembly time saving with complete safety

Suitable for automatic processes

Closer mounting tolerances and shallow cavities

Suitable fluid: Compresses air

Working pressure: max. 20 bar



Energy Saving Compressed Air System-Transair

Aluminum Piping-Light Weight

Energy saving product

Easy to install

Minimal Pressure drop

Leakage free

Used for Compressed air, inert gases, CO₂ and Vacuum application

Maximum Pressure and Temp.

- 13 bar, -20°C to +65°C

- 16 bar, -20°C to +50°C

Resistance to corrosion Power Coated Pipe

Available sizes are 16.5 mm, 25 mm, 40 mm, 63mm, 76mm, 100 mm.

Maintenance free 10 years warranty product.

Carbon Free Hose

Parker CFH-8 CARBON FREE ID 1/2" WP 17 BAR / 250 PSI 8 mm 10 mm **Parker**

Part no	ID (ref.)		OD (Nominal)		W.P		MBR		Weight	
	mm	Inch	mm	Inch	Bar	PSI	mm	inch	lb/ft	kg/mt
CFH-8	12.5	1/2	21.5	0.85	17	250	75	3.0	0.21	0.31
CFH-12	19.0	3/4	31.0	1.22	17	250	102	4.0	0.42	0.63
CFH-16	25.4	1	37.5	1.48	17	250	127	5.0	0.47	0.70
CFH-20	31.8	1.1/4	45.5	1.79	17	250	178	7.0	0.8	1.20
CFH-24	38.1	1.1/2	53.5	2.11	17	250	216	8.5	1.09	1.62
CFH-32	50.8	2	66.5	2.62	17	250	330	13.0	1.42	2.13

Construction:

Tube: Grey Colour Synthetic Rubber

Reinforcement: One or Multiple Layers of Textile Reinforcement

Cover: Green Colour Ozone , Heat and Weather Resistant Synthetic Ruber

Temperature: - 40^o C to 100^o C

Application: Furnace Coolant and electrical cable coolant in Steel Industry & Non conductive applications. With excellent low leakage current less than 15 Micro Amp. at 6000V D.C.

RSD-Series

ISO A-Profile



Technical Description

The RSD series has been manufactured according to the regulations and dimensions of the standard specification ISO 7241-1 A series and can be connected with other series complying with the same standard.

Advantages

Our one hand operated push-pull version serve to prevent leakage and destruction of the hydraulic hoses by automatic disconnection in case of accidental traction on the hose. The integrated detent system prevents circuit shut off in back-flow condition (> 240 l/min - direction male to female). The connection can be done under full system pressure in the plug.

Working Pressure

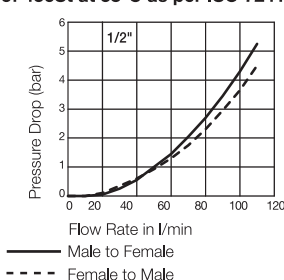
See charts.

Working Temperature

-30°C up to +110°C (NBR) depending on the medium. Special seals are available on request (see page 6).

Material Coupling	Standard
Coupling Body	Chrome VI free Plated Steel
Sleeve	Chrome VI free Plated Steel
Valve	Chrome VI free Plated Steel
Springs	Steel
Locking Balls	Steel
Seals	Composite
Valve Holder	Composite

Flow Capacity with Oil with Viscosity of 43cSt at 38°C as per ISO 7241/2-2000



Applications Area



FILTRATION GROUP

HYDRAULIC FUEL FILTRATION

Return Line Filters PT Series

Parker's PT Series Return Line Filters combine high efficiency Microglass filtration with low cost installation in a patented design. Allowable operating pressure of 150 PSI/10.3 Bar and capable of flows up to 50 GPM/180 LPM depending on viscosity.



Tanktop Mounted Suction and Return Filter - SR Series

The SR series filters are capable of feeding filtered oil under positive pressure to the suction side of the boost pump filtering both open and closed loop oil systems through one filter.



High Pressure Inline Filter – iProtect® EPF Series

The Parker EPF Series is a highly compact, eco-friendly inline hydraulic oil filter that features a re-usable element core. Capable of flows up to 700 L/min (185 GPM). Maximum allowable operating pressure 450 bar (6,500 psi).



Medium Pressure Inline Hydraulic Filter – iProtect® GMF Series

The Parker GMF Series is a highly compact, environmentally friendly inline hydraulic oil filter that features a re-usable element core. Capable of flows up to 600 L/min (158 GPM). Maximum allowable operating pressure 70 bar (1,015 psi).



In-Tank Mounted Filter - IN-AGB Series

The IN-AGB Series is a low cost, high performance in-tank mounted return line filter featuring a quick response bypass construction with low hysteresis and a high dirt-holding capacity.



High Pressure In-Line Filter - 100P Series

The 100P Series high pressure in-line filters have been designed so only the end cap of the bowl needs to be removed in order to change the element making it ideal for applications where space is at a premium.



Medium Pressure In-Line Filter - 45M Series

The 45M Series of medium pressure filters offer an ideal solution to the problem of protecting system components at lower pressures. The robust filter housing allows the 45M product to be applied in harsh environments.



Tanktop Mounted Return Line Filter - BGT Series

The BGT Series features pre-filtration by means of a magnet column and a full flow bypass with low hysteresis. Providing maximum flow rates of 2400 l/min at maximum pressure 10 bar.



Portable Filtration System Guardian Series

Parker's Guardian Portable Transfer Unit is a hand-held unit designed to filter new fluids, and polish the existing fluids in a system to reduce contamination levels. Lightweight and compact, ideal for one person operation and on-site conditioning.



Submicronic Removal Fluid Purification Systems

The Parker SMR Series Purification System uses patented technology to remove contaminants from oil. Portable, and improving a system's demulsibility, Parker has created a solution for on-site oil purification even in the most demanding environments.



Portable Purification Systems PVS Series

The Parker PVS Series Portable Purification System features automatic operation and ease of maintenance. This vacuum dehydrator is conveniently portable, and able to purify a system's oil on-site, even in the most demanding environments.



Submicronic Removal Fluid Purification Systems

The Parker SMR Series Purification System uses patented technology to remove contaminants from oil. Portable, and improving a system's demulsibility, Parker has created a solution for on-site oil purification even in the most demanding environments.



Low Pressure In-Line Spin-On Filter - Maxiflow Series

The Maxiflow Series is a range of spin-on filters designed to provide low cost quality protection for hydraulic or lubrication systems. Maximum pressure 10 bar. Maximum flow 360 l/min.



Low Pressure Inline Filter Moduflow Plus Series

Parker's Moduflow™ Plus series suction/return/duplex patented filter element features longer life and increased dirt capacity. Allowable operating pressure of 200PSI/13.8Bar and capable of flows up to 150GPM/581LPM depending on viscosity.



Low Pressure Tank Mounted Filter Moduflow Plus Series

Parker's Moduflow™ Plus series suction/return/duplex patented filter element features longer life and increased dirt capacity. Allowable operating pressure of 200 PSI/13.8 Bar and capable of flows up to 150 GPM/581 LPM depending on viscosity.



High Pressure Inline Filter WPF Series

The new industry standard in high pressure hydraulic filtration incorporating advanced features designed to improve system reliability. Allowable operating pressure of 7000 PSI/483 Bar and capable of flows up to 137 GPM/520 LPM depending on viscosity.



Sentinel Compact Oil Purifier

The Parker Sentinel features automatic operation, which minimizes energy consumption while extending the usable life of fluids. This compact vacuum dehydrator provides flexibility to the user allowing for operation in areas where space is at a premium.



Premium Hydraulic Fluid - DuraClean

DuraClean™ is ultra-premium hydraulic oil provided exclusively by Parker. The fluid has a unique additive chemistry designed to maximize oil life while providing optimum anti-wear protection for the components of today's advanced hydraulic systems.



Tanktop Mounted Return Line Filter - STF Series

The STF Series return line filters are designed for situations where the use of aluminium is restricted in applications such as marine and industrial. Max. flow 500 l/min - Max. pressure 10 bar.



Tanktop Mounted Return Line Filter - TTF Series

The TTF Series features pre-filtration by means of a magnet column and a quick response bypass with low hysteresis. Maximum pressure 10 bar. Maximum flow 500 l/min. A second return port is an available option as is a filling port in the filter cover.



High Pressure Inline Filter 100P Series

Parker's 100P High Pressure Inline Filters are designed for systems where reverse flow can be expected and where space is at a premium. Allowable operating pressure of 6000 PSI/414 Bar and capable of flows up to 120 GPM/455 LPM depending on viscosity.



High Pressure Inline/Reverse Flow Filter 50P Series

Parker 50P High Pressure Filter Series is fully customizable with reverse flow capability to meet any system needs. Meeting SAE HF4 Automotive Standards. Max allowable operating pressure 5000 PSI/344.8 BAR and flow rates to 130GPM/492 LPM.



Eco130 Series Medium Pressure Filters

Parker Filtration engineered the ECO130 series of Medium pressure filters to satisfy demanding applications in the industrial markets throughout the world. With metric mounting and G thread ports, this series is truly a global design.



15/40/80CN Series Medium Pressure Filters

The CN Series is a compact, cost effective, medium pressure filter designed with coreless filtration technology. CN Series bowl features a permanently fixed core designed to reduce solid waste and minimize disposal costs with every element change out.



Medium Pressure Inline Filter IL8 Series

Parker's IL8 Inline Filters combines high efficiency Quantumfiber filtration with low cost installation. Allowable operating pressure of 500 PSI/34.5 Bar and capable of flows up to 425 GPM/1609 LPM depending on viscosity.



High Pressure Inline/Duplex Filter 15P/30P/30PD Series

The Parker 15P/30P Series is a high pressure all aluminum filter assembly that comes in a variety of options. The 15P/30P Series has a rated fatigue pressure of up to 2,000psi and flow rate up to 45gpm.



Low Pressure Spin-On Filters 12AT/50AT Series

Our rebranded Spin-On Low Pressure Filter Series are cost effective yet uncompromising in performance and quality. Max allowable operating pressure of 150 PSI/10.3 Bar and capable of flows up to 50 GPM/190 LPM depending on viscosity.



Low Pressure Tank Top Filters GLF Series

Parker's GLF Series Return Line Filters combine high efficiency Microglass filtration with low cost installation in a patented design. Allowable operating pressure of 150 PSI/10.3 Bar and capable of flows up to 230 GPM/871 LPM depending on viscosity.



Medium Pressure Inline Filter 12CS/50CS Series

The Parker 12CS/50CS Coreless Medium Pressure Spin-On Filter Series are the Smart Alternative to Spin-on Cans. Max allowable operating pressure of 500 PSI/34.5 Bar and capable of flows up to 50 GPM/190 LPM depending on viscosity.



High Pressure Stainless Steel Filter 40S Series

The 40S Series is a high pressure filter constructed in all 316 stainless steel which makes it ideally suited for water and caustic applications or where harsh environmental conditions exist. Allowable operating pressure of 3000 PSI/138 Bar and capable.



Portable Filtration Cart / Trolley – 10MFP Series

The 10MFP Series portable filter cart is a mobile filtration device that removes free water and contaminants from hydraulic fluid. Capable of pre-filtering and transferring fluid at 38 L/min. Available with optional iCountPD online particle detector.



High Pressure In-Line Duplex Filter - 22PD-32PD Series

The 22PD-32PD Series High Pressure Duplex Filters are specially designed to offer continuous operation, even during element change.



Medium Pressure Inline Duplex Filter MPD Series

The Parker MPD's innovative modular design provides solutions across a broad range of industrial applications. Allowable operating pressure of 1200 PSI/82.8 Bar and capable of flows up to 150 GPM/581 LPM depending on viscosity.



DFS Diesel Filtration Skids

DFS™ Series Combining Particulate Filtration with Water Coalescing Providing high quality fuel to the modern high pressure common rail fuel injection systems is imperative to avoid costly downtime and engine repair. The Velcon Diesel Filtration Skid (DFS) plays an important role in a comprehensive fuel contaminant control program as it provides fuel conditioning to assure the consistent removal of abrasive particles and damaging water.



DVF Series Vertical Micronic Filter Vessels

Parker CLEANDiesel® DVF Series Vertical Micronic Filter Vessels for Bulk Diesel Fuel Filtration.



HM Series Horizontal CDF® Vessels

The Velcon CDF Monitor Vessels, equipped with the CDF® Cartridges, provide superior performance and reliability for assuring clean, dry fuel. These vessels are for use downstream of filter/separators or on refueler trucks.



DVX Point-of-Use Filter Housings

Parker CLEANDiesel DVX Series Point-of-Use Filter Housings for Diesel Fuel.



DV Series Vertical Filter/Separator

Parker CLEANDiesel® DV Series Vertical Filter/Separator Vessel for Bulk Diesel Fuel Filtration.



30, 50, 75 GPM Insulating Oil Filters System

High performance HCP and HDP Series Filter Pumps provide fast, cost effective insulating oil filtration in the field. HCP30 Series-Flow Filter-Pumps were developed for use with insulating oil having high levels of carbon contamination as a primary problem and water contamination as a secondary problem.



Velcon V Series Vertical Filter/Separator Vessels

Parker Velcon V Series Vertical Filter/Separator Vessels for Aviation Fuel Filtration.



Hydraulic – Condition Monitoring

icountBSplus Advanced Bottle Sampler

The revolutionary icountBSplus is an advanced, fully contained bottle sampling system that ensures fast, accurate and repeatable detection of contamination in diesel fuels. Compact and portable, the icountBSplus is ideal for use in the laboratory, on-line or off-line applications. The system is fully accredited to all particle counting standards - ISO, NAS, AS and GOST - including the latest ISO medium dust certification.



icountFS Portable Condition Monitoring for Fuel Systems

The revolutionary icountBSplus is an advanced, fully contained bottle sampling system that ensures fast, accurate and repeatable detection of contamination in diesel fuels. Compact and portable, the icountBSplus is ideal for use in the laboratory, on-line or off-line applications. The system is fully accredited to all particle counting standards - ISO, NAS, AS and GOST - including the latest ISO medium dust certification.



IPM Integrated Particulate Monitors

Parker Velcon's IPM™ Series represents the most up-to-date technology in solid particle contamination analysis. The IPM is a compact, permanently-mounted laser-based particle detector module that provides a cost-effective solution to fluid management and contamination control. The IPM-200 Series measures particle contamination continuously utilizing the Parker icountPD (iPD) technology, updates the display, and outputs ISO code values to an RS-232, CAN bus, or Cellular Data Acquisition Module.



Inline Particle Monitor – iCountPD

The Parker iCountPD is a highly compact, permanently mounted laser detection particle size monitor that enables continuous monitoring of contamination levels in hydraulic and fluid circuits. Capable of communicating results in ISO4406 / AS4059 or NAS1638.



Portable Particle Monitor – iCountOS

The iCountOS is a highly rugged portable particle size monitor that can be used for measuring contamination levels in fuels and/or hydraulic fluids. Capable of operation online (direct connection to system) or offline (sampling from tank or reservoir).



Ferrous Wear Meter

The Ferrous Wear Meter (FWM) detects metal particles in an oil samples taken from lubricated machinery. It offers a simple, easy to use instrument that delivers Parker Kittiwake's quality, accuracy and reliability. This unit is ideal for testing and analysing oil samples on-site, on-board or in remote locations where full laboratory analysis is not possible.



High Pressure Mechanical Flowmeter - Flowline

The Flowline Series is a range of rugged inline mechanical flowmeters that provide visual indication of fluid flow in hydraulic systems. Capable of measuring flows ranging from 1 - 360 L/PM. Maximum allowable working pressure: 350 bar (5076 psi). The Parker Flowline Series comprises a wide range of inline mechanical flow measurement devices that are designed for high-flow, high-pressure applications, including off-road mobile pump performance / industrial oil supply lines. The flowmeters are non-intrusive (i.e. do not obstruct flow) and are available with either a brass or stainless steel housing, making them suitable for use in harsh environments, where high-pressure and corrosive chemicals can damage conventional measurement devices.



Low Pressure Mechanical Flowmeter – Easiflow

The Easiflow line comprises a range of highly economical, inline mechanical flowmeters that provide visual indication of fluid flow in hydraulic systems. Capable of measuring flows ranging from 1 to 150 L/MIN. Maximum allowable working pressure: 10 bar.



ANALEX_PQL -Ferrous Debris Monitor

The ANALEXpql is developed to replace the widely used pqM and pqA. Using all new hardware, software and the latest technology. The highly accurate ANALEXpql is an essential addition to the modern used oil analysis laboratory.



XRF Analyser

The XRF analyser offers the ability to spot check the Sulphur content of fuel oil. The XRF will help shipowners and operators ensure compliance with the latest International Maritime Organization (IMO) regulations for emissions.



Fuel Drip Bunker Samplers

Bunker samplers are designed to provide a representative sample of the entire fuel delivery. Manufactured from stainless steel, all products comply with ISO 3170, BS 3195, ASTM D 4057 and ISO TR 13729 standards, as well as the Singapore Bunkering Procedure.



icountLaserCM30 - Portable Particle Monitor

The Parker icountLCM30 is a next generation fluid system particle contamination monitoring offering an under 90 seconds test procedure. Multi-standard ISO, NAS, AS and GOST cleanliness reporting, data entry and integral printing are all featured on this next generation contamination monitor.



Portable Heated Viscometer

The Parker Heated Viscometer is a highly rugged and easy-to-use diagnostic device that provides oil viscosity centistoke results in minutes for fast onsite maintenance decisions. Supplied in a compact case for maximum portability.



Inline Sensors & Monitors for emulsion oils - System 20

System 20 monitors, combined with the inline sensor, give the user accurate and instant readings of oil or water flow, pressure and temperature without the need to shut down the system.



Power Plant Lab

The Deisel Power Plant Lab is a high spec system consisting of a wall mounted cabinet containing a suite of core electronic QC tests lubricants and residual fuel oils. Of rugged design and suitable for long term use in harsh environments, all equipment is simple to use and ideal for operation by ships engine room crew.



Fluid Moisture Sensor – iCountMS Range

The iCountMS Range is an online moisture sensor that allows for continuous monitoring of relative humidity (moisture content) in hydraulic and lubricating fluid circuits. Three models available with maximum allowable working pressures up to 420 bar.



Fuel and Lube Cabinet

A wall mounted cabinet containing core QC tests lubricants and residual fuel oils. Typically supplied to deep sea marine customers for diesel engine lubricants and fuel oils. An installed user base of many hundreds of deep sea operations. Of rugged design and suitable for long term use in harsh environments, all equipment is simple to use and ideal for operation by ships engine room crew.



MWDS - Metal Wear Debris Sensor

The Parker Metallic Wear Debris Sensor goes beyond the scope of normal wear debris sensors to offer even smaller size online resolution. With an unbeatable detection range, the sensor provides a debris count for both ferrous and non-ferrous metals.



MHC-MEMO PRO - on-site Acoustic Emissions instrument

MHC-Memo Pro - the ultimate tool for condition monitoring, Full spectrum capture and analysis capability with the included software. Route logging facility for multiple plant routes. The MHC-Memo Pro is the top of the range hand held device, featuring enhanced analysis capability, for those looking for the absolute instrument to assist their condition monitoring program. The MHC-Memo Pro is able to monitor a near unlimited number of machines on a periodic basis.



Dataflow - Flow Transmitters

The Low Cost Transmitter the Dataflow Compact Transmitter was designed to offer OEM's and end users alike a means of monitoring low flows on liquids with an electronic output signal- but at low cost. Fluid passes through the one piece sensor body impacting on the twin vanned turbine rotor, causing it to rotate at a speed proportional to the flow rate. The lightweight Grilamid body with its virtually unrestricted flow path, offers negligible pressure drop for flows up to 25 l/min and withstanding pressures up to 20 bar.



Portable Contamination Analyser - Gamma Eye Series

The Parker Gamma Eye portable contamination analyser offers superior performance for sites where significant quantities of gamma contaminated material need to be assayed and segregated within a short time frame. The Parker Gamma Eye portable contamination analyser bucket monitor provides a quick assessment of the bulk gamma contamination of excavated material within the bucket of a mechanical digger. This instrument contains a large scintillation crystal which is mounted within a substantial frame. The sensor is pre-calibrated for the contamination isotope of interest and can be set to alarm for discrete activity bands.



Low Pressure Mechanical Flowmeters – Loflow Series

The Parker Metallic Wear Debris Sensor goes beyond the scope of normal wear debris sensors to offer even smaller size online resolution. With an unbeatable detection range, the sensor provides a debris count for both ferrous and non-ferrous metals.



Fuel and Lub Oil Test Kits

Parker patent Fuel and Lub Oil Test Kits are quick, simple to use chemical test that provides an accurate measure of the parts per million (PPM) value of Fe²⁺ and Fe³⁺ compounds in used scrape down oil.



Acoustic Bearing Checker– Machinery Health Check (MHC)

Parker MHC Bearing Checker is an innovative hand-held device that provides engineers with the capability to quickly and analyse bearing condition and lubrication state. Allows for measurements of impact and distress.



FPS - Fluid Property Sensor

Modern mobile equipment calls for a hydraulic fluid ensuring profitable and reliable operation. The FPS monitors online Dielectric, Density, Viscosity and temperature. The FPS is a novel fluid property sensor that will directly and simultaneously measure the viscosity, density, dielectric constant and temperature of fluids. Relying on patented tuning fork technology, the sensor monitors the direct and dynamic relationship between multiple physical properties to determine the quality, condition and contaminant loading of fluids such as engine oil, fuel, transmission and brake fluid, hydraulic, gears oils, refrigerants and solvents.



ANALEX_RPD - Rotary Particle Depositor

The ANALEXrpd Particle Depositor offers a rapid and simple method of debris separation. A measured volume of sample is applied, by pipette, to a glass substrate located on a rotating magnet assembly. particles of debris are deposited radially as three concentric rings by the combined effects of rotational, magnetic and gravitational forces. Removal of the lubricant by solvent washing and drying gives a stable well-separated deposit pattern ready for examination by optical or electron microscope.



LinerSCAN - Cylinder Liner Monitor

Parker LinerScan system is designed to remove the uncertainty of cylinder damage resulting from low fuel quality, slow steaming, low sulphur levels, lower oil feed rates and cylinder oil formulation changes. The world's first real-time alarm system for engine liner wear. LinerSCAN marks a new era in asset protection, providing early warning against critical engine damage whilst providing the information needed to save on lube oil costs.



MHC- 4000 Series Sensors

The MHC 4000 Series Sensors Smart Acoustic Emission sensors from Parker Kittiwake's Holroyd range are a development in smart AE sensors for fixed installations and incorporating proven MHC technology. Three sensors are included in this range.



Universal Bottle Sampler - UBS

The UBS provides the dynamic link to portable particle counters. The UBS off-line sampler has microprocessor technology to recognize and adjust to the connecting monitor including the icountLCM30.



DIGI Plus Oil Test Kits

Protect your assets, improve productivity, and increase uptime with regular on-site oil analysis. Parker's complete range of economical oil test kits provide reliable oil condition results in minutes.



ENGINE & MOBILE FILTRATION

Racor Clean Diesel FBO FF/WS

FBO filter assemblies are designed to meet the toughest industrial refueling conditions while providing easy cartridge change outs. The FBO assemblies can be used for a variety of applications including mobile refuelers, refueling cabinets, diesel fuel dispensing pumps and primary fuel filter/water separators for large diesel engines.



Fuel Filter / Water Separator with Integrated Fuel Heater – Racor GreenMAX Series

The GreenMAX™ is a high-capacity, environmentally friendly fuel filter water separator. The filter is available with two fuel heating options and provides maximum protection of diesel engine components under any climatic conditions.



Marine FBO FF/WS

Marine FBO filter assemblies are designed to meet the toughest industrial refueling conditions while providing easy filter cartridge change outs. Flow rates can vary from 20 to 75 gpm (76 to 284 lpm), depending on filter cartridge element used and fuel type.



Fuel Filter Water Separator – Racor Spin-on Series

Racor Spin-on Series Fuel Filter Water Separators provide maximum protection of modern engines by effectively removing water, sand, dirt, and rust contamination from fuel. Integral priming pump and fuel heater available as an option.



Disposable Fuel Filter / Water Separator – SNAPP Series

The Racor SNAPP™ Series is a compact, easy-to-service, disposable fuel filter water separator designed for use in mobile and stationary gasoline and diesel engines. It has no threads or seals, making change-outs quick, clean, and painless.



Fuel Filter Water Separator – Racor Turbine Series

The Racor Fuel Filter Water Separator Turbine Series is a three-stage filtration system that provides maximum protection of diesel engine components by effectively removing contaminants from fuel, such as water, silica, sand, dirt, and rust.



Marine Fuel Filter Water Separator – Racor Turbine Series

The Racor Fuel Filter Water Separator Turbine Series is a three-stage filtration system that provides maximum protection of diesel engine components by effectively removing contaminants from fuel, such as water, silica, sand, dirt, and rust.



Marine Fuel Filter Water Separator – Racor Spin-on Series

The Racor Fuel Filter Water Separator Turbine Series is a three-stage filtration system that provides maximum protection of diesel engine components by effectively removing contaminants from fuel, such as water, silica, sand, dirt, and rust.



High Pressure Fuel Filter / Water Separator – Racor 110A Series

The 110A Series is a two-piece, all aluminum fuel filter water separator with a cartridge-type filter element that's ideally suited for use in gasoline and diesel engines equipped with high-pressure injection systems. It can be installed on the vacuum or pressure side of a fuel pump (up to 100 psi /6.9 bar) with a maximum flow rate of 15 gph (57 lph) for diesel fuel and 35 gph (132 lpm) for gasoline.



Fuel Manager Filters - Racor FM Series

Racor Fuel Manager filter series removes excess water from your fuel source and features convenient drain valves. Keep water and harmful contaminants from becoming a problem for the fuel system with the Racor Fuel Manager filter series.



Racor Oil Filters

Racor lube & oil filter spin-ons protect your engine from wear particles that can otherwise lead to premature parts failure. Longer drain intervals requires filters that have both high capacity and the ability to withstand the rigors of time and temperature without failing or going into bypass. Racor's oil filters are up to the challenge.



Crankcase Ventilation – Super Impactor

The Super Impactor CCV eliminates environmental pollution from crankcase emissions, allowing open and closed crankcase circuit solutions at >98% efficiency, with no service element. Smaller, lighter, more economical and with higher efficiencies than its closest rivals, the systems also include the ultimate crankcase pressure regulator offering the tightest crankcase pressure control.



Engine Air Filters – Racor ECO TL Series

Racor ECO TL Series Engine Air Filters ensure delivery of clean, purified air into gasoline and diesel engines. The filters feature a highly compact and rugged design, allowing for safe, trouble-free operation in heavy-duty applications.



Disposable Engine Air Filters – Racor ECO Series

Racor ECO Series Disposable Engine Air Filters ensure delivery of clean, purified air into gasoline and diesel engines. The filters come available in a variety of configurations and allow for safe, trouble-free servicing in any application.



Dynamic Engine Air Precleaners – Racor AFAP, AFHP, AFUP, EACP, Spinaire Series

Racor Engine Air Precleaners extend engine life and reduce downtime by removing impurities from intake air before it enters the filter. They come available in a variety of configurations for use in any gasoline or diesel engine application.



Cabin Air Panel Filters

Panel Cabin Air Filters help prevent contaminants and pollutants from entering the cabin area. The space-saving design is utilized in a wide variety of heavy-duty trucks and passenger vehicles.



Radial Seal Air Filters

Baldwin engine air intake filter elements protect heavy-duty equipment by preventing airborne dirt and other contaminants from entering the combustion chamber. Radial seal filters utilize a urethane compound to form the molded ends and bond the media pack, which includes the inner and outer metal wrappers, forming a strong, yet flexible package. The heavy-duty radial seal gasket formed from this urethane compound is designed to make servicing easier and more cost effective.



Axial Seal Air Filter Elements

Baldwin's Extreme Performance air filters offer significant benefits over conventional cellulose-only media, including higher initial efficiency and greater capacity for extended filter replacement intervals.



Air Breather Filters

Baldwin air breathers prevent contamination and water created from fluctuations in the reservoir from entering the system, ensuring proper equipment operation and helping to prevent premature parts wear.



EnduraCube Air Elements

Highly efficient and durable, Baldwin EnduraCube air filter elements ensure proper equipment function by preventing airborne contaminants from reaching the combustion chamber.



EnduraPanel Air Elements

Highly efficient and durable, Baldwin EnduraPanel air filter elements ensure proper equipment function by preventing airborne contaminants from reaching the combustion chamber.



Channel Flow EXO Air Filter Elements

Channel Flow EXO is the next generation of the popular Baldwin Channel Flow air filter line. Channel Flow EXO filters take the straight-through airflow path of Channel Flow and combine it with cutting edge, proprietary technology.



Channel Flow Air Filter Elements

Baldwin Channel Flow Air Filters protect heavy-duty equipment by preventing ambient dirt and other contaminants from entering the combustion chamber. The high efficiency media with straight-through air path ensures optimal flow in a compact size.



DEF Filters

Baldwin Diesel Exhaust Fluid (DEF) filters remove contaminants to ensure proper function of your vehicle's Selective Catalytic Reduction (SCR) system. If DEF is not filtered, urea crystals and other contaminants picked up during storage and handling can cause malfunction of the SCR system. A Baldwin DEF filter removes harmful particulate, preventing plugged dosing valves and enabling the SCR system to do the important job of reducing harmful Oxides of Nitrogen (NOx) emissions.



INDUSTRIAL AIR FILTRATION

OIL-X Compressed Air Filter

The Parker OIL-X range of die-cast compressed air filters has been designed from the outset to meet the air quality requirements of all editions of ISO8573-1, when validated in accordance with the stringent requirements of ISO12500-1. Designed using domnick hunter filtration technology, OIL-X filters are designed to not only minimize the use of compressed air and electrical energy in their operation, but also to significantly reduce the operational costs of the compressor by minimizing pressure losses.



OIL-X 'Point Of Use' Oil Vapour Reduction Filters

OIL-X 'point of use' oil vapour reduction filters are available in two options: the Grade ACS single stage adsorption filter and Grade AC double stage filter - Grade AC consists of both coalescing and adsorption filter elements combined into one housing. OIL-X Grades ACS and AC are used for smaller flow rate applications and applications where more frequent element changes can be tolerated. Reduction of oil vapour and hydrocarbon odours, providing a maximum remaining oil content of $<0.003\text{mg/m}^3$ ($<0.003\text{ppm}$) @ 21°C (70°F).



GH Series High Pressure Compressed Air Filter

Parker GH series high pressure filters are designed to be ideal for high pressure applications up to 350 bar g. The innovative construction features of the filter housing provide a reliable assembly, as well as simple and safe handling for replacing the filter element. One essential construction feature is the double O-ring seal which protects the housing thread against pollution and humidity and therefore prevents the thread from corrosion. Additionally the second O-ring prevents the filter housing parts from over winding.



INSTRUMENTATION AND GAS SAMPLING FILTER ELEMENTS

Parker's Finite J-Series Filters are designed to filter contaminants such as rust, pipe scale, compressor lube oil, and water from compressed gases. These filters are often used in high pressure CNG systems, not only as inter-stage filters in the multi-stage compression of the gas, but also in the storage and delivery of the gas for CNG powered vehicles. Parker's varied media choices remove up to 99.995% of both solid and liquid aerosols, and contaminants as small as 0.01 microns in size. Specially designed for use in system pressures up to 5,000 psig.



Compressed Air Filters - HX Series

Parker's new HX-Series product line possess many important design and construction features that combine to provide leading compressed air filtration performance. Improved flow characteristics result in lower pressure differential, which is related to the ongoing operating cost of employing high-efficiency nanofiber coalescing filters. Parker's special UNI-CAST formed elements and our deep bed pleated elements provide lower pressure drop and less frequent changeouts, saving time and money.



G50 Series Compressed Air Filters

The Parker GH50 Series Intermediate Pressure filter range is available in multiple filtration grades to cover all filtration requirements, including general purpose and high efficiency coalescing grades, general purpose and an oil vapour reduction grade. These are High efficiency compressed air filters for industrial applications requiring pressures of up to 50 barg.



OIL-X Carbon Steel Fabricated Compressed Air Filter

The Parker domnick hunter OIL-X range of fabricated carbon steel compressed air filters combine an innovative filter housing and filter element design to achieve optimum flow characteristics with minimum pressure drop, resulting in considerable cost savings throughout the entire operating lifetime of the filter element. These are High efficiency compressed air filters for applications requiring large flow rates up to 31248 m³/hr @ 7 bar g with a maximum operating pressure of 16 bar g.



Balston 2000 Series Compressed Air Filters

Parker Balston 2000 series compressed air and gas filters remove contaminants at an efficiency of up to 99.99% for 0.01 micron particles and droplets.



Balston 2000 Series Compressed Air Filters

Parker Balston 6000 series stainless steel compressed air filters protect equipment and delicate instruments from the dirt, water, and oil usually found in compressed air and other gases. These filters will remove contaminants at a very high efficiency - up to 99.99% for 0.01 micron particles and droplets. Liquid releases from the filter cartridge to an automatic drain as rapidly as it enters the filter. This allows the filter to continue removing liquids for an unlimited time without loss of efficiency for flow capacity.



High Pressure Compressed Air Filters - 3in to 10in Line Size

Balston high pressure compressed air filters offer exceptionally high efficiency coalescing filtration of compressed air at high flow rates. The housings are ASME Code stamped to 665 psig.



Natural Gas Filters 6 IN to 10 IN Line Size

Parker Balston High Flow Rate Natural Gas Filters offer high efficiency coalescing filtration and are specifically designed to remove suspended liquids and dirt from pipeline natural gas. Housings are ASME code stamped up to 1440 psig.



Sterile Air Filters 3IN to 10IN Line Size

Parker Balston sterile air filters for the food industry remove all viable organisms from compressed air and other gases at an efficiency of 99.9999+% for 0.01 micron sized particles.



Balston Disposable Filter Units

Parker Balston disposable filter units offer all the advantages of microfiber filter cartridges for high efficiency liquid and gas filtration combined with the economics and convenience of complete disposability.



Finite H-Series Filter Housings

Parker's Finite filter vessels eliminate oil, water, and particulate contamination from large flows of compressed air and gas. Temperatures up to 450°F (232°C). Pressures to 500 PSIG (34 bar). Flows from 10 to 1660 SCFM (17-2822 m³/hr)



Compressed Air and Gas - Up to 800 PSIG - M-Series

Parker Finite offers an array of filters sized to handle any natural gas flow and several media choices to meet natural gas application demands. ASME filter housings are constructed from carbon steel. Choices of filter media types include glass fiber for coalescing liquids, cellulose for particulate removal and activated carbon materials for oil vapor and hydrocarbon removal. Filter element ratings are available from 100 microns down to 0.01 micron. Pressures to 800 PSIG. Flows from 78 to 2,500 SCFM



Sample Analyzer Filters

Parker Balston samples analyzer filters protect sensitive process instrumentation from sample impurities by removing solids and liquids from gases with 99.9999+% efficiency at 0.01 micron. The sample filters also provide liquid filtration to 1 micron or lower. To satisfy a wide range of requirements, Balston sample filters are offered in a wide range of materials including stainless steel, polypropylene, and other corrosion resistant materials. The high efficiency filter elements are inert to most all liquids and gases.



Finite SN 3-Stage Stainless Steel Filters for Food Contact Applications

Finite SN 3-Stage Filters for Food Contact Applications. Finite 3 Stage Stainless Steel Filters deliver up to 99.9999+% efficiency at 0.01 microns. These filters will hold up to the most demanding washdown applications.



Finite HX 3-Stage Filters for Food Contact Applications

Finite HX 3-Stage Filters for Food Contact Applications. Finite 3 Stage Aluminum Filters deliver up to 99.9999+% efficiency at 0.01 microns. Finished with a durable powder coating that will hold up to the most demanding non-washdown applications.



EcoPure Plus Filters

The Parker EcoPurePlus amasses decades of Parker's experience in designing and manufacturing compressed air filters and treatment systems and has been developed by the same highly trained team of filter experts responsible for the industry renowned Oil-X Evolution compressed air filter range. The EcoPurePlus inherits many of the same proven compressed air purification technologies of Oil-X Evolution and the result is a compressed air filter providing the optimum balance of cost, filtration performance, energy efficiency and lifetime for general industrial standard compressed air applications.



Hyperfilter Compressed Air Filters (For Pressures Up To 16 Bar G)

Hyperfilter coalescing, dry particulate and oil vapour removal filters have been specifically designed to prevent these undesired effects, offering a comprehensive range of compressed air filters covering all industrial needs. Available in 5 filter grades: Coarse pre-filter, general purpose and high efficiency coalescing filters, dry particulate filter and oil vapour removal filter.



OIL-X OVR Oil Vapour Reduction Filter

Compact, modular construction oil vapour removal filters designed to reduce oil vapour when industrial applications require compressed air to meet ISO8573-1 Class 0 or Class 1.



LV Series Paint Compatible Compressed Air Filter

Working closely for many years with automotive manufacturers and the producers of water and solvent based paints, Parker ZANDER understands the industry and its special needs. Ordinary filters may clean compressed air but can release silicone into the compressed air stream from lubricants, cleaning agents, 'o'-rings or other component parts. Silicone is recognized as the worst possible contaminant in paint spraying applications and Parker ZANDER assemble the LV Series Paint Compatible Filters in a silicone-free atmosphere and manufacturing area using only certified silicone-free components.



WVM Series Large Flow Low Energy Vacuum Regenerated Compressed Air Dryer

Low energy large flow industrial compressed air dryers providing flow rates up to 7300m³/h @ 7 barg with a dew point of -40°C (-20°C and -70°C options). Energy savings of up to 25%. Parker Generation 5 WVM compressed air dryers provide an energy efficient heat regenerated compressed air drying solution for large scale compressed air applications. Ideal for electronics and automotive production plants but suitable for all general manufacturing industries where typically high volume flows and low pressure dewpoints are required.



CDAS/OFAS/FBP Large Flow Heatless Compressed Air Dryer

Large flow modular compressed air dryers providing pressure dew points of -40°C, -20°C and -70°C options available. With flow rates up to 2040 m³/hr @ 7 barg, even greater flow rates can be achieved by multi-banking the dryers. Parker's CDAS HL Clean Dry Air Systems provide clean, dry compressed air in accordance with all editions of ISO8573-1, the international standard for compressed air quality. Parker's OFAS HL Clean Dry Air Systems have been third party validated by Lloyds register to provide ISO 8573-1 Class 0 Air. The FBP compressed air dryer system adds FDA approval and improved air quality to ensure food beverage and pharmaceutical standards are achieved



CDAS LE/OFAS LE/FBP LE Large Flow Low Energy Vacuum Assist Heatless Compressed Air Dryer

Advanced Vacuum Assisted Low Energy Heatless Desiccant Dryers technology for industry leading performance; a source of increased productivity, sustainability and profitability. Large flow modular compressed air dryers providing pressure dew points of -40°C, -20°C and -70°C options available. With flow rates up to 2040 m³/hr @ 7 barg, even greater flow rates can be achieved by multi-banking the dryers. Energy saving technology – to manage compressed air flow requirements resulting in reducing compressed air use, which sequentially lowering energy consumption and save operational costs. Parker's CDAS HL Clean Dry Air Systems provide clean, dry compressed air in accordance with all editions of ISO8573-1, the international standard for compressed air quality. Parker's OFAS HL Clean Dry Air Systems have been third party validated by Lloyds register to provide ISO 8573-1 Class 0 Air. The FBP compressed air dryer system adds FDA approval and improved air quality to ensure food beverage and pharmaceutical standards are achieved.



Compact Inline Desiccant Dryers - DD15, DD30, DD60 Series

DD15, DD30 and DD60 are compact sized point-of-use inline desiccant dryers that remove all traces of water vapor, oil vapor and particulate. They are designed for intermittent and not continuous use applications.



Mini Disposable Inline Desiccant Dryers - DD10 Series

DD10 is a mini, point-of-use, disposable, inline desiccant dryer that removes all traces of water vapor, oil vapor and particulate. It is designed for intermittent and not continuous use applications.



CDAS HL Medium Flow Heatless Compressed Air Dryer System

Parker's CDAS HL Clean Dry Air Systems provide clean, dry compressed air in accordance with all editions of ISO8573-1, the international standard for compressed air quality. They are energy efficient and can provide pressure dewpoints of -70°C, -40°C or -20°C with flow rates up to 300 m³/hr (177 cfm) @ 7 barg (102 psi g). Clean, dry air improves production efficiency and reduces maintenance costs and downtime. Many products claim to provide this, however only CDAS HL Clean Dry Air Systems provide the highest levels of dry compressed air with validated performance.



OFAS HL Medium Flow Oil Free Heatless Compressed Air Dryer System

Compressed air contamination problems can be simply avoided by installing a Parker OFAS HL Oil Free Air System (including OIL-X filtration). The fully integrated heatless compressed air dryer and filtration packages are suitable for use with any compressor type and can be installed in the compressor room or at point of use. Fitted with a third adsorbent column for oil vapour removal, Parker's OFAS HL Clean Dry Air Systems have been third party validated by Lloyds register to provide ISO 8573-1 Class 0, with respect to total oil from both oil lubricated and oil free compressors, ensuring the highest quality air at the point of use for critical applications.



FBP HL Medium Flow Heatless Compressed Air Dryer System

The Parker FBP (Food, Beverage, and Pharmaceutical) compressed air dryer system provides compressed air treatment with innovative technology and features which deliver 100% validated air quality and world leading standards of efficiency. Based upon the OFAS platform, the FBP compressed air dryer system adds FDA approval and improved air quality to ensure food beverage and pharmaceutical standards are achieved.



PMD Miniature Heatless Compressed Air Dryer

The Parker PMD Micro Dryer provides a constant outlet dewpoint in accordance with ISO8573-1 class 2 for water vapour. The ultra small adsorption dryer can be used for low flow applications requiring a -40°C pressure dewpoint at a maximum flow rate of $0.21 \text{ m}^3/\text{h}$ @ 7 barg (0.12 cfm @ 102 psig). The constant -40°C pressure dewpoint provided by the PMD Micro Dryer provides an outlet dewpoint which inhibits the growth of micro-organisms (allowing their efficient reduction using filtration).



PPD Series Portable Desiccant Compressed Air Dryers

Parker's PPD Series of Portable Desiccant Compressed Air Dryers are comprehensive compressed air treatment systems each equipped with multiple stages of a filtration and a twin tower adsorption dryer for compressed air dehumidification. Packaged on portable, heavy-duty skid these highly engineered systems ensure high quality compressed air in accordance with ISO8573-1, the international standard for compressed air quality. Ideal for rental applications.



EcoDry Blower Purge Desiccant Air Dryers

Parker EcoDry Blower Purge Desiccant Air Dryers use the adsorption method to remove moisture from compressed air. Nominal pressure dewpoints down to -40°C (-70°C as option) by directing the flow of saturated compressed air over a bed of desiccant. Parker EcoDry, EDB dryers contain 2% purge air type and zero purge air type. 2% purge air type dryers combine heat with either a small portion of the dried compressed air or with forced ambient air to affect regeneration. Zero purge air type dryers only use ambient air to affect regeneration. The heated, low pressure air flows gently through the regenerating bed, adsorbing the moisture that accumulated on the surface of the desiccant during the drying cycle and exhausting it to the atmosphere.



StarlettePlus-E (SPS) Series Compressed Air Refrigeration Dryers

Refrigerated compressed air dryers effective in removing water vapor, down to levels in accordance with ISO8573-1, from compressed air flow rates between 10-250 scfm while maintaining industry leading low operating costs. Parker's StarlettePlus-E (SPS) Series dryers are the most environmentally friendly refrigeration dryers available. Designed to work with low Global Warming Potential (GWP) refrigerant, R513A, SPS complies with the requirements of the United States Environmental Protection Agency SNAP Rules 20 & 21 and European F-Gas Regulation (EU 517/2014). This makes Parker PSE the best choice to protect your investment, the climate and the environment.



PoleStar Smart-E (PSE) Series Cycling Compressed Air Refrigeration Dryers

Energy saving refrigerated compressed air dryers effective in removing water vapor, down to levels in accordance with ISO8573-1, from compressed air flow rates between 325-6000 scfm while maintaining industry leading low operating costs. Energy saving refrigerated compressed air dryers effective in removing water vapor, down to levels in accordance with ISO8573-1, from compressed air flow rates between 325-6000 scfm while maintaining industry leading low operating costs.



Refrigeration Dryer Series - PRD10 - PRD250 (10-250 SCFM)

Refrigeration air dryers are ideal for general purpose oil free air treatment applications. Dewpoints of 38°F to 50°F are suitable for many indoor applications where general removal of water and some vapor is suitable for the end user's process.



Refrigeration Dryer Series - PRD325-PRD2400 (325-2400 SCFM)

Refrigeration air dryers are ideal for general purpose oil free air treatment applications. Dewpoints of 38°F to 50°F are suitable for many indoor applications where a general removal of water and some vapor is suitable for the end user's process.



SPL Series Refrigerated Dryers

Parker Hiross SPL Series Refrigerated Dryers provide volume flow from 0.6 to 5 m³/min with pressure dew points of 3°C to 10°C which ensures continuity and reliability of industrial applications. Starlette Plus safeguards continuous performance and superior efficiency in every industrial compressed air application. It can easily be adapted to suit all working conditions, maintaining reliable dewpoint control and the lowest possible pressure drops and operating costs. With its state-of-the-art PlusPack heat exchangers and the most compact dimensions of any system in its class, Starlette Plus is the superior choice for any compressed air treatment application.



PDG Series Refrigerated Dryers

Parker Hiross PDG Series Refrigerated Dryers provide volume flow from 7 to 110 m³/min with pressure dew points of 3°C to 10°C which ensures continuity and reliability of industrial applications. This series dryer treats compressed air efficiently, eliminating the problems associated with wet, untreated air in the compressed air system. When fitted with Parker efficiency compressed air filters. The PDG represents a performance package capable of providing dried, filtered compressed air has a minimum pressure dew-point of 3°C at a pressure of 7 bar g and clean, free of liquid water.



PCO2 Carbon Dioxide Quality Incident Protection Systems (flow rates up to 4354kg/h)

PCO2 Carbon Dioxide Quality Incident Protection Systems from Parker offer a comprehensive solution to preserve and guarantee the quality of gaseous carbon dioxide used in sparkling beverage bottling. Using multi-layer adsorbant technology, the PCO2 range is suitable for flow rates between 181 to 4354 Kg/h @ 24 bar g (400 to 9600 Lb/h @ 350 psi g) for plant scale protection.



BIOGAS MK SILOXANE REMOVAL SYSTEM

The Parker PpTek BioGas ManualKleen Siloxane Removal System (BGMK) is a Bio-Chemical filtering system that is fitted in the fuel supply line of a BioGas to Energy plant decontaminating landfill and sewage gas of siloxanes and other VOC's. Fitted in the main BioGas supply it can also be used to filter siloxanes protecting boilers used to heat water on water treatment sites. Using the same Parker PpTek patented media materials as the BioGas AutoKleen (BGAK) the unit is fitted with sufficient media to last approximately 3 months without the need for regeneration. Inline adsorption system that chemically remove siloxanes from BioGas, allowing engines to operate deposit free thereby helping to reduce emissions.



BIOGAS AK SILOXANE REMOVAL SYSTEM

The Parker PpTek BioGas AK is an inline regenerative adsorption system that will chemically remove siloxanes from the BioGas, allowing engines to operate deposit free and helping to reduce emissions. Fitted in the fuel supply line of a bioGas to energy plant BioGas AK decontaminates landfill and sewage gas of siloxanes and other VOC's. Simple, compact, robust, self contained & regenerative, the system enables extended full-power operation, increased service intervals and payback within an operating period as short as 12 months. The media is hydrophobic repelling water consequently no costly chiller is required to remove moisture.



Hyperchill - Industrial Process Chillers for Precision Cooling

Chillers designed to provide precise and accurate temperature control for a wide variety of industrial applications, with cooling capacities from 76 kW to 360 kW @ 25°C ambient temperature.



Hyperchill Process Water Chiller - PCW Series

Hyperchill maximizes productivity and minimizes costs, by operating in a closed circuit, and continuously reutilizing the same water to avoid waste. It always supplies the exact water temperature requested, despite ambient conditions and load requests.



Hyperchill Laser Industrial Process Chiller for Precision Cooling

Ideal for the precision cooling of water used typically in laser marking, cutting and welding processes. The performance of high-powered lasers depends on effective cooling. High-powered lasers generate a significant amount of heat that must be removed from the laser system to avoid overheating critical components. Carbon dioxide (CO₂) lasers, excimer lasers, ion lasers, solid-state lasers, and dye lasers all use liquid cooling to remove excess heat.



Hyperchill BioEnergy Water Chiller for Biogas and Landfill Gas Cooling Applications

Specially designed for Biogas applications to ensure an accurate control of water temperature. For biogas as a fuel, most of the impurities have to be removed, as they can cause contamination, deposits and damage to equipment. In particular, biogas needs to be dried by cooling it to temperatures close to 5°C (41°F), using water-cooled heat exchangers fed by water chillers. Hyperchill Bioenergy is a key component in this biogas treatment process.



Hyperchill Plus - Industrial Water Chiller for Precision Cooling of Low Viscosity Industrial Cooling Fluids

Chillers designed to provide precise and accurate temperature control for a wide variety of industrial applications, with cooling capacities from 1.7 kW to 58.3 kW @ 25°C (63°F) ambient temperature. The availability of a wide range of accessories and options makes Hyperchill Plus a very flexible solution that fits the needs of a wide variety of industrial applications. With a non-ferrous hydraulic circuit, Hyperchill Plus is suitable for cooling low viscosity cooling fluids including water and water-glycol mixtures. Hyperchill Plus ensures stable working conditions combined with improved efficiency and productivity of the process. Hyperchill Plus contributes significantly to the reduction of plant downtime and maintenance costs due to inconsistent cooling of low viscosity cooling fluids. Each individual Hyperchill Plus unit is extensively tested to guarantee efficient operation and reliability in most working conditions.



Antares Plus-E Green Hybrid Technology Low Energy Compressed Air Dryer

Green, low energy Hybrid Technology dryers for compressed air applications in industrial and processing markets. Providing volume flows up to 2040 m³/h @ 7 bar g at a dew point of -40°C (-20°C and -70°C options available). The Antares Plus-E hybrid technology low energy dryer (ATT+ 060-340) is a green and eco-friendly solution integrating the principles of refrigeration and adsorption into a single compact compressed air treatment package, resulting in a highly efficient, economic and low maintenance drying solution, with particular attention to the environment thanks to the use of a low GWP refrigerant (R513A).



Compressed Air Dryers, Membrane -40°F/C Dewpoint

Balston Membrane Compressed Air Dryers, supply clean, dry compressed air with dewpoints as low as -40°F (-40°C). Balston Membrane Air Dryers combine superior coalescing technology with a proven innovative membrane system to supply clean, dry compressed air with dewpoints as low as -40°F (-40°C), and provide low cost operation with minimal maintenance. Balston Membrane Air Dryers are engineered for easy installation, operation, and long term reliability. Applications include low dewpoint instrument air, pneumatic equipment, pressurizing electrical cabinets, analytical instrumentation, instrument air for analyzer buildings, dry air for hazardous areas, and general laboratory air supply.



Compressed Air Dryers, Membrane 35°F/2°C Dewpoint

Balston Membrane Air Dryers combine superior coalescing filtration technology with a proven, innovative membrane system to supply clean, dry, +35°F dewpoint compressed air, and provide low cost operation with minimal maintenance. If the house compressed air is equipped with a refrigerated dryer, the dewpoint drops to +15°F (-9°C). Available in 8 models, the dryers can deliver compressed air at flow rates up to 100 SCFM (170 NM³/Hr). These systems are engineered for easy installation, operation, and long term reliability. By incorporating high efficiency coalescing filtration and the highest efficiency membrane available, the systems provide low cost operation with minimal maintenance.



Compressed Air Dryers for Electrical Cabinets and Enclosures

The meat and dairy industry demands the ultimate in cleanliness and sanitation in their food preparation areas. These areas are washed down nightly. Every square inch of equipment is sprayed with hot (140°F), high pressure sanitizers. These sanitizers are caustic or acidic depending on the food. Much of the equipment is pneumatically operated but more and more this industry is moving to electronic controls that are housed in "water-tight" NEMA 4x cabinets. Electrical cabinets eventually develop leaks allowing moisture build up on electronic components. The moisture leads to premature component failure. Premature failure of components leads to emergency service and production down time.



Compressed Air Dryers, Membrane for Coordinate Measuring Machines

Balston Air Dryers for Coordinate Measurement Machines (CMM) combine superior coalescing technology with a proven, innovative membrane system to supply clean, dry compressed air with a constant dewpoint to 35°F (2°C).



Compressed Air & Gas - Up to 150 PSIG - FMD Membrane Dryer Series

Finite's FMD Membrane Dryer Series is designed to remove water vapor and aerosols at point-of-use for intermittent flows up to 40 SCFM with a +35°F dewpoint and 10 SCFM with a -40°F dewpoint.



Ultra Dry Gas Generator

Parker Model UDA-300 Compressed Air Dryer provides ultra-dry, purified compressed air to analytical instruments. Designed for NMR instruments, the Parker compressed air dryer will reduce the dewpoint of compressed air to -100°F (-73°C).



Atomic Absorption Gas Purifier

Parker Atomic Absorption (AA) Gas Purifier is an engineered, wall mountable system designed to purify gases commonly used with AA Spectrophotometers. Consisting of two independent filtration systems for purifying compressed air and for acetylene gas.



TOC Gas Generators

Parker's TOC Gas Generators produce carrier/combustion gas, from an existing compressed air supply for TOC instruments. Eliminates the need to purchase expensive, inconvenient, high pressure cylinders of air, nitrogen, or oxygen.



FT-IR Purge Gas Generators

Parker's FT-IR Purge Gas Generator is specifically designed for use with FT-IR Spectrometers to provide a purified purge and air bearing gas from compressed air.



CO2-free Laboratory Gas Generator - K-MT LAB Series

Parker K-MT-LAB Series CO2-free Gas Generators provide cleanroom air for many GC or TOC applications, at flow rates between 1.5 and 175 NL/min.



Hydrogen Generators for GC Fuel Gas Applications (>99.9995% Purity) Gas Generators

Utilising field proven PEM cell technology, hydrogen is produced on demand from deionised water and electricity, at low pressure and with minimal stored volume. Innovative control software allows unrivalled operational safety and reliability. The H generators ideally supply fuel gas to all known GC combustion detectors used in today's laboratory workflows. Three models operate at flow rates; 160 ml/min, 250 ml/min and 500 ml/min.



Hydrogen Generators for GC and GC/MS Carrier Gas Applications (>99.9999 Purity)

Parker Model UDA-300 Compressed Air Dryer provides ultra-dry, purified compressed air to analytical instruments. Designed for NMR instruments, the Parker compressed air dryer will reduce the dewpoint of compressed air to -100°F (-73°C).



Hydrogen Generators for Fuel Gas

Parker fuel gas hydrogen generators utilize proton exchange membrane, which eliminates the use of liquid electrolytes with hydrogen generators. Simply connect your in-house supply of deionized water to the nitrogen generator for virtually hands-free operation. With an output capacity of up to 510 cc/minute, one generator can supply 99.9995% pure hydrogen for up to several FID's.



Hydrogen Generators for Fuel and Carrier Gas

These generators are used extensively with gas chromatographs to provide a fuel gas for Flame Ionization Detectors (FID), a reaction gas for hall detectors, and a carrier gas to ensure absolute repeatability of retention times. High sensitivity trace hydrocarbon analyzers and air pollution monitors also use hydrogen to ensure the lowest possible background noise. Generator flow capacities of up to 300 cc/min. of ultra-high purity hydrogen are available. Parker Hydrogen Generators are compact benchtop units designed for use in the laboratory or in the field.



FID Gas Stations

Parker Balston's FID-1000NA, FID-2500NA, and FID-3500NA Gas Stations provide both hydrogen gas and zero grade air to FID detectors on Gas Chromatographs. These systems are specifically designed to provide fuel gas and support air to 10-11 Flame Ionization Detectors, Flame Photometric Detectors or Total Hydrocarbon Analyzers. Hydrogen gas is produced from deionized water using a Proton Exchange Membrane Cell. The hydrogen generator compartment utilizes the principle of electrolytic dissociation of water and hydrogen proton conduction through the membrane. The hydrogen supply produces up to 500 cc/min of 99.9995% pure hydrogen with pressures to 60 psig.



Hydrogen Generators For GC & GC/MS Fuel and Carrier Gas Applications (99.99999+ Purity)

The Parker Balston H2PEMPD ultra high purity hydrogen generators offer the optimum combination of safe operation, reliability, performance and low cost of ownership. H2PEMPD hydrogen generators utilise field proven PEM cell technology, hydrogen is produced on demand from deionized water and electricity. It then passes through a palladium purifier module to remove oxygen down to <0.01ppm. Innovative control software allows remote monitoring and the connection of several generators together (cascading) to supply applications with a large hydrogen demand. An output capacity of up to 1,300 ml/min at a purity of 99.99999+% and pressures up to 11.9 bar.



Nitrogen Generators for Agilent 6400 & 6500 LC/MS Instruments

Complete 'Plug and Play' system specifically designed for the Agilent 6400 & 6500. Produces a continuous supply of LC/MS grade nitrogen. Parker domnick hunter LCMS64/65 dual flow nitrogen gas generators employ robust, field proven technology to meet the drying, sheath, nebulisation and collision gas requirements of the Agilent Technologies QQQ & Q-TOF instrumentation portfolio.



High Purity Nitrogen and Dry Air Generators

Parker domnick hunter G6 and G7 nitrogen and dry air generators employ robust, field proven technology to produce ultra high purity nitrogen and dry air suitable for chemical analysis applications. The G6 and G7 generators provide a continuous stream of nitrogen and dry air from a single 'plug & play' unit, are extremely quiet in operation and are fully approved for use by major instrumentation manufacturers. Ideal for analytical instruments that require high purity nitrogen and air. Produces a continuous supply of high purity nitrogen (99.999%) and dry air.



Ultra High Purity Nitrogen Generator

Parker domnick hunter nitrogen gas generators employ robust, field proven technology to produce ultra high purity nitrogen for critical life science, chemical analysis and spectroscopy applications. Flow rates range from 0.75 L/min to 3 L/min, with purities >99.9995%.



Ultra High Purity Zero Nitrogen Generators for GC makeup gas and carrier gas

Ideal for GC make-up and carrier gas applications including ECD and is fitted with economy mode as standard resulting in an increased compressor life. Parker domnick hunter zero nitrogen generators employ robust, field proven technology to produce ultra high purity nitrogen for GC makeup and carrier gas applications. An integral heated platinum catalyst ensures carrier grade nitrogen free from organic impurities to < 0.1 ppm.



Nitrogen Generators for LC/MS applications

The Parker domnick hunter LCMS nitrogen gas generators employ robust, field proven technology to meet the drying, sheath and nebulisation gas requirements of today's latest LC/MS instrumentation. Two models operate at flow rates of 20 and 30 L/min.



High Purity Nitrogen Generators for Analytical Instruments Including ICP

Parker domnick hunter nitrogen gas generators employ robust, field proven technology to produce high purity nitrogen for life science, chemical analysis and spectroscopy applications. Flow rates range from 5 to 12.5 lpm, with purities from 99.8 to 99.999%.



PSA Nitrogen Generators - Dual Bed

Produce between 95% - 99.999% pure, compressed nitrogen at dewpoints to -58°F (-50°F) from nearly any compressed air supply. Designed to continually transform standard compressed air into nitrogen at safe, regulated pressures without operator attention.



PSA Nitrogen Generators - MonoBed

Monobed Nitrogen Generators produce up to 99.99% pure, compressed nitrogen at dewpoints to -58°F (-50°F) from nearly any compressed air supply. Balston PSA Nitrogen Generators are designed to continually transform standard compressed air into nitrogen at safe, regulated pressures without operator attention.



Full Featured Dual Bed Nitrogen Generators

Ideal for GC make-up and carrier gas applications including ECD and is fitted with economy mode as standard resulting in an increased compressor life. Parker domnick hunter zero nitrogen generators employ robust, field proven technology to produce ultra high purity nitrogen for GC makeup and carrier gas applications. An integral heated platinum catalyst ensures carrier grade nitrogen free from organic impurities to < 0.1ppm.



Nitrogen Generators for Solvent Evaporation

Parker NitroVap Generators can provide clean, ultra-dry nitrogen to sample evaporators. The NitroVap generators are complete systems with state-of-the-art, highly reliable components engineered for easy installation, operation and long term performance. These systems offer high nitrogen output flows in a miniature cabinet. The user can activate the manual SLEEP economy mode to eliminate compressed air consumption when the sample concentrator is not in use.



UHP NITROGEN FOR ICP SPECTROMETERS

Parker Ultra-High Purity (UHP) Nitrogen Generators transform standard compressed air into a safe, regulated supply of 99.995 to 99.9999% UHP nitrogen exceeding the specification of UHP cylinder gas and dewars. Innovative design features include integral compressors with economy mode as standard. This extends compressor life and reduces ongoing running costs. Typical applications include optical purge for ICP-OES (Inductive Coupled Plasma - Optical Emissions) high flow GC make up gas, solvents evaporation, DSC (Differential Scanning Calorimeter) and virtually any analytical instrument that requires a small to medium flow of UHP nitrogen.



NITROFLOW LAB Mobile Nitrogen Gas Generator For LC/MS

NitroFlow Lab is a self-contained nitrogen gas generator that produces up to 32 l/min of pure LC/MS grade nitrogen at pressures up to 8 bar. Nitrogen is produced by utilising a combination of compressor and membrane separation technologies. High and low pressure compressors are carefully matched to the hollow fibre membranes to ensure quiet and reliable operation. Oil free compressed air is passed through the unique proprietary hollow fibre membranes which separate the air into a concentrated nitrogen stream.



ALIGN Product Series for LC-MS

NEW Parker ALIGN™ Series of gas generators designed specifically for in-laboratory use, serving LC-MS/MS instruments. ALIGN™ generators are a total solution to providing the laboratory-grade gases required by mass spectrometers – plug-and-play systems that will perfectly meet the needs of the instrument. ALIGN™ Series generators are state-of-the-art machines featuring the best energy efficiency and gas purity on the market. Smart controllers enable the generators to operate only as much as the instrument calls for, thereby conserving energy, reducing electric bills, eliminating unnecessary noise, and increasing the reliability of the entire system.



Self-contained Nitrogen Generator for beverage dispense

Building on Parker's history of over 35 years of producing Nitrogen Generators, we are pleased to offer a nitrogen gas generator specifically designed to meet the needs of retail coffee establishments. Parker Nitrogen Generators eliminate the danger, inconvenience and high costs of truck delivered nitrogen. There is no need to rely on an outside supplier. The hassles of changing high pressure cylinders and the routine interruption of nitrogen supply is completely eliminated. Parker Nitrogen Generators are also good for the environment.



NITROSource PSA Nitrogen Gas Generator (5% to 5 ppm maximum remaining oxygen content)

Building on Parker's history of over 35 years of producing Nitrogen Generators, we are pleased to offer a nitrogen gas generator specifically designed to meet the needs of retail coffee establishments. Parker Nitrogen Generators eliminate the danger, inconvenience and high costs of truck delivered nitrogen. There is no need to rely on an outside supplier. The hassles of changing high pressure cylinders and the routine interruption of nitrogen supply is completely eliminated. Parker Nitrogen Generators are also good for the environment.



SmartFluxx Nitrogen Gas Membrane Modules (10% to 0.5% maximum remaining oxygen content)

SmartFluxx design optimizes highest nitrogen capacity and lowest feed-air consumption, keeping the modules the smallest available on the market. SmartFluxx provides nitrogen gas of 90% to 99,5% equivalent nitrogen purity. The correct purity is available instantly as there is no need to heat-up the membrane to open the polymer structure, consequently further reducing the energy consumption, resulting in reduced CO2 emissions. SmartFluxx offers flexible mounting solutions offer a small system footprint. With no serviceable parts, Smartfluxx operates maintenance free.



HiFluxx Nitrogen Gas Membrane Modules (5% to 0.5% maximum remaining oxygen content)

Membrane modules for producing nitrogen gas at pressures up to 13 barg from a standard compressed air supply. HiFluxx provides nitrogen gas of 95% to 99,5% equivalent nitrogen purity. Nitrogen is used as a clean, dry, inert gas primarily for removing oxygen from products and/or processes. Parker modules can be built into a custom-made nitrogen generator or can be integrated with your (production) process to provide an on-demand, continuous source of nitrogen gas.



EnOxy Oxygen Membrane Modules

Hollow-fibre membrane modules that produce oxygen enriched air (up to 40% purity) from compressed air. Parker hollow-fibre membrane modules produce oxygen enriched air from compressed air to offer a cost effective, reliable and safe alternative to traditional oxygen gas supplies. Parker modules can be built into a custom-made oxygen generator or can be integrated with your process to provide an on-demand, continuous source of oxygen gas. Oxygen enriched air is used in many health and wellness related applications such as nitrox diving, oxygen bars and oxygen training rooms.



ED3000 Series

Automatic zero air loss condensate drain for industrial compressed air treatment applications. ED3000 Series level sensing condensate drains use internal sensors to determine the exact moment to discharge condensate, this results in a minimised number of switching cycles and thus, to a maximum service life of the drain valve.



HDF Series

Zero loss mechanical float condensate drains for industrial compressed air and biogas treatment applications. HDF series drains are compact and highly reliable automatic float controlled condensate drains for industrial compressed air and biogas treatment applications. Because the drain never runs completely dry, no air/gas is lost during the discharge process. HDF series condensate drains therefore reduce the waste of compressed air/gas which has a positive effect on the efficiency of the whole system.



Traptronic TRAP Series

Time controlled condensate drains for industrial compressed air treatment applications. The Parker Traptronic range of time controlled drains are designed to remove condensate from compressed air systems. They use a solenoid valve in combination with an electronic timer. The units are compact and can be installed on all compressed air system components like compressors, aftercoolers, dryers, filters and pressure vessels, regardless of their size or capacity. The condensate drain is ready to use directly after installation and adjusting the interval and discharge times. Any further manual drainage can be omitted.



ED4100 Series

Automatic zero air loss level sensing condensate drains for industrial compressed air treatment applications up to 50 barg. The safe and reliable removal of large amounts of condensate, especially at critical installation points, such as compressor aftercoolers, storage vessels, and separators, where approx. 70 to 80% of condensate arises, really make Parker's ED4100 range of condensate drains stand out. The ED4100's integrated dirt filter, large valve cross-section, direct controlled 2/2-way solenoid valve and capacitive level sensing allows for the safe, reliable, and economical removal of condensate, whilst simultaneously preventing any loss of compressed air.



Zero Air / Zero Energy Loss Condensate Drains

Zero Air/Zero Energy Loss Condensate Drains are designed for economical removal of unwanted water, oil emulsions, and other liquids. Zero air/zero energy loss condensate drains are designed for economical removal of unwanted water, oil emulsions, and other liquids. These drains will only open when liquid is present and will not allow any compressed air to escape from the system. A Zero air/zero energy loss condensate drain is necessary because condensate is always present in a compressed air system.



Up to 232 PSIG - Zero Loss Drains

Finite's zero loss condensate drains are designed for economical removal of unwanted water, oil, emulsions, and other liquids. These drains will only open when liquid is present and will not allow compressed air to escape from the system.



CDV Series

The Parker CDV range of time controlled drains are designed to remove condensate from compressed air systems. They operate by using a combination of a solenoid valve with an electronic timer. The units are compact and can be installed on most compressed air system components like compressors, aftercoolers, dryers, filters and pressure vessels, regardless of their size or capacity. The drains are ready to use after installation and adjustment to the interval of discharge times.



ES2000 Series Oil/Water Separators

Oil/water separators are installed as part of the compressed air purification system and are designed to reduce the oil concentration in the collected condensate. The oily condensate that is removed from the compressed air system cannot be discharged directly to the foul sewer without the oil content being reduced to within legal disposal limits. By reducing the oil concentration in water to permitted levels, discharge can be safely directed to the foul sewer meaning large volume of clean water, up to 99.9% of the total condensate, can be safely disposed of. This leaves a relatively small amount of concentrated oil to be disposed of legitimately and economically.



Hypercool Water Cooled Aftercooler

Hypercool water cooled aftercoolers represent the vital first step in this process, installed immediately downstream of compressors or blowers they eliminate over 80% of the water present within compressed air and gas systems. Controlled compressed air or gas temperature is essential for many industrial applications for efficient operation. The air or gas temperature can be very high at the compressor outlet. Hypercool water cooled aftercoolers can control this. They have been specifically designed to achieve maximum cooling at minimum cost, within a package designed to withstand the rigors of modern industry.



Breathing Star BSP-MT 1-8

Small to medium flow breathing air treatment systems providing purified breathing air, with CO/CO₂ reduction. Meeting European Pharmacopoeia and other international breathing air standards with volume flow rates up to 139 m³/h @ 13 barg.



BAM Breathing Air System

Skid mounted, seven stage breathing air system providing breathing air with CO/CO₂ reduction for high-capacity multiple personnel breathing air applications at volume flow rates up to 1426m³/h @ 7 barg.



Breathing Star BSP-MT 10-95

Medium to large flow breathing air treatment systems providing purified breathing air, with CO/CO₂ reduction. Meeting European Pharmacopoeia and other international breathing air standards with volume flow rates up to 1371 m³/h @ 13 barg.



BAS - Breathing Air System

Small to medium flow breathing air systems providing purified breathing air, with CO/CO₂ reduction. Tested in accordance with European Pharmacopoeia and other international breathing air standards with volume flow rates up to 300 m³/h @ 7 barg.



BHA Filter Support Cages

A well-built cage is critical to the overall performance and durability of your filter bag. Parker Hannifin cages feature evenly spaced rings and wires, with a rounded bottom pan (never cringed) to help ensure proper filter fit.



BHA Prevail ePTFE Membrane Filter

Laminated to a base material, BHA Preveil ePTFE membrane filter bags are designed to resist sticky and sub-micron particulates while ensuring consistent airflow. That means you can spend more time producing, and less time and resources on fabric filter maintenance. Our BHA Preveil ePTFE laminated filter bags are designed to help you effectively reduce energy costs, increase your production, and keep up with increasingly stringent environmental emissions requirements. You can count on Parker Hannifin to deliver what you need, where you need it, when you need it



BHA PulsePleat® pleated filter elements

BHA PulsePleat elements are custom manufactured to fit easily and quickly into nearly every OEM style of pulse-jet baghouse elements are available with many types of filter media, tops/bottoms, and inner cores to handle different types of process conditions, temperatures, and gas stream. A breakthrough in pleated filter technology for Cement, Lime, Carbon Black and other extremely high temperature applications.



PSG - Roof and ceiling mounted ESP mist collector

The PSG electrostatic precipitator (ESP) is a centralized solution that is connected to ducting and is ideally suited for controlling oil, smoke and coolant emissions and commercial, industrial and restaurant cooking emission applications. PSG system solutions for a wide variety of industrial food processing applications for high-profile industrial kitchen applications. The ESP process charges particles and strips them from the airstream, capturing even sub-micronic contaminants, and leaves only clean air to be exhausted from the unit.



SHN - Ceiling mounted ESP mist collector

Ceiling or above floor mounted mist collector for water and oil-based coolants. The unit can be configured as an ambient air cleaner or duct can be connected for close to source capture applications. The Smoghog SHN systems collect oil smoke and mist particles, and handle airflows from 1,000 to 5,200 CFM. Comprised of an ionizer section and an ESP collection cell, SHN units can accommodate additional filtration options for heavy-duty applications. The SHN filters, as well as the ESP components, conveniently slide in and out of the system for easy manual cleaning. SHN units can be ducted, unducted, wall and ceiling mounted.



MSH - Machine Mounted ESP mist collector

The SmogHog model MSH is a self-contained mist collector that can be mounted directly onto machining centers or locally ducted. Mists, fumes and smoke generated from oil and water based coolants are drawn into the system and then subjected to a highly efficient multi-stage filtration process including a coalescing pre-filter and ESP collection cell(s). Clean air is then recirculated back into the plant for a cleaner, healthier work environment. High filtration efficiency keeps air clean in your factory and process running at peak performance with more than 99% removal efficiency by mass and greater than 90%* particle removal of 0.3 micron liquid particles.



SGN - Ceiling mounted ESP mist collector

SGN units collect high-volume oil smoke and coolant emissions and are equipped for airflow capacities ranging from 2,200 to 9,000 CFM. SGN units powerful systems employ a single ESP unicell, which combines the ionizer and collection cell. SGN units have supplemental filtration accessories available. SGN units are made of a fully welded construction. SGN units have toolless door latches and quick access to motor/blower section. SGN units offer selectable blank inlet collar or various inlet diameters.



SHM - Stationary Floor mount media mist collector

The SmogHog SHM Floor is a self-contained mist collector designed using long-life PEACH filters that are a coalescing filter with an open 3-D depth matrix structure which allows liquids to saturate the media depth and grow to fullest potential then drain with gravity when the droplet is ready, all while maintaining a low differential pressure. The media is a synthetic blend engineered specifically for capturing and draining oil mist and coolant contaminants. The multi-layer media features a special, thermally bonded gradient density fiber structure so the media stays strong, but open during operation for optimized performance. The allows for high efficiency, extended service life and low-pressure losses.



SHM - Machine Mounted media mist collector

The Smoghog SHM machine mounted mist collector is designed using long-life PEACH media that are a coalescing filter with an open 3-D depth matrix structure which allows liquids to saturate the media depth and grow to fullest potential then drain with gravity when the droplet is ready, all while maintaining a low differential pressure. The media is a synthetic blend engineered specifically for capturing and draining oil mist and coolant contaminants. The multi-layer media features a special, thermally bonded gradient density fiber structure so the media stays strong, but open during operation for optimized performance.



Mist Eliminator - ecomist

Parker Zander's range of ecomist Mist Eliminators is the result of extensive research and development, and many years of experience in the design and manufacture of high efficiency compressed air treatment products. Compressed air purification equipment must have a very low pressure drop, long service life and be strong enough to withstand the most arduous operating conditions. Protection from oil slugs or compressor air/ oil separator failure is essential. Parker Zander's series of ecomist Mist Eliminators is specifically designed to meet these demands and will optimize oil removal while ensuring extremely low pressure drop and long service life. The ecomist's pressure drop is one of the lowest available at 0.5 psi which is typically 8 psi lower than conventional filters. This provides significant energy savings as on average every 2 psi pressure drop in the system equals a 1% loss in compressor horsepower.



CRYSTAL-AIREuv

The CRYSTAL-AIRE[®]uv air purifier is a mobile, wall hanging or ceiling mounted particle irradiation and filtration system that utilizes ultraviolet UV-C energy, and high efficiency filtration to neutralize and clean ambient air within an occupied room or space. The innovative design of CRYSTAL-AIRE[®]uv combines ultraviolet germicidal irradiation (UVGI) wavelength technology with high efficiency True-HEPA filtration to provide continuous cleaning of air in an indoor space. The combination of ultraviolet radiation and True-HEPA filtration captures, irradiates and filters bacteria, dust, mold spores, odors, bioaerosols and virus particles as small as 0.3 microns which is about 250 times smaller than a human hair.



VB-750 Downdraft Dust Collector

The Parker VB Benchtop Downdraft Filtration Unit is a stationary self-contained source capture extraction system for intermittent use. The VB 750 downdraft bench provides a downflow of 750 CFM and is specifically designed for applications where workers need an integrated collection area and work surface that also draws contaminants downward and away from the worker's breathing zone then traveling through a filtration media to remove particles entrained in the airstream before returning the clean air back into the workspace. Model VB is ideal for grinding and finishing operations of small parts and components.



VB-1500 Downdraft Dust Collector

The Parker VB Benchtop Downdraft Filtration Unit is a stationary self-contained source capture extraction system for intermittent use. The VB 1500 downdraft bench provides a worktop area of 48.5" wide and 24" deep with a downflow of 1500 CFM and is specifically designed for applications where workers need an integrated collection area and work surface that also draws contaminants downward and away from the worker's breathing zone then traveling through a filtration media to remove particles entrained in the airstream before returning the clean air back into the work space. Model VB is ideal for grinding and finishing operations of small parts and components. This self-contained system is the perfect choice for economical and efficient dust collection.



VF-750 Fixed Portable Dust Collector

The Parker VF-750 Portable Filtration Unit is a mobile self contained source capture extraction system for intermittent use and can reach up to 750 CFM. The VF-750 is equipped with a 6 inch diameter inlet collar that can be used to attached an 6 inch flexible hose or rigid ducting (may required a connection flange that is not included). Serving as the airflow and filtration source for an entire system, this self-contained system is the perfect choice for economical and efficient dust collection. Ideal for ducted operation, the VF system's small cabinet makes it easy to position close to the dust source—saving valuable floor space.



VP-1500 Portable Dust Collector

The Parker VP-1500 Portable Filtration Unit is a mobile self contained source capture extraction system for intermittent use and can reach up to 1,500 CFM. The XA extraction arm hood is positioned in the work zone to capture and remove dust, smoke, fumes and process emissions such as welding or cutting fume at the particulate generation source before they enter the workers breathing zone, the immediate workspace or ambient work environment. The VP-1500 can be equipped with a 8 inch XA extraction arm of 7, 10 or 12 feet.



VP-750 Portable Dust Collector

The Parker VP-750 Portable Filtration Unit is a mobile self contained source capture extraction system for intermittent use and can reach up to 750 CFM. The XA extraction arm hood is positioned in the work zone to capture and remove dust, smoke, fumes and process emissions such as welding or cutting fume at the particulate generation source before they enter the workers breathing zone, the immediate workspace or ambient work environment. The VP-750 unit can be equipped with a 6 inch XA extraction arm of 7, 10 or 12 feet.



SCB ceiling mounted source capture dust collector

The SCB is the perfect choice for applications where source is required and floor space is a premium. Installed above the plant floor, this continuous cleaning dust collection system draws fumes, dust and other airborne contaminants from the workspace using two 7'/10'/12' that are 8 inch diameter counter balanced extraction arms , 6/8 inch flexible or rigid duct via inlet collars that are located close to the fume or dust generation source and collecting into a variety of available filters (Protura Nanofiber or Protura Nanofiber Fire Retardant (FR)), and recirculates the air back into the plant.



SCA ceiling mounted ambient dust collector

The SCA is the perfect choice for applications where source capture is impractical. Installed above the plant floor, this continuous cleaning dust collection system draws fumes, dust and other airborne contaminants from the workspace into a variety of available filters (Protura Nanofiber or Protura Nanofiber Fire Retardant (FR)), and recirculates the air back into the plant.



PNP - Plug-N-Play Stationary Dust Collector

The PHP DustHog "Plug-N-Play (PNP) cartridge dust collector provides a safe, effective and convenient solution to handle non-explosive dust collection applications including thermally generated fumes from welding, laser or plasma cutting operations as well as other common nuisance dusts. Connect the power, compressed air and the ductwork and the unit is ready to run. The collector is available with 95% or HEPA after filters. The unit requires 90 to 110 PSI of clean dry air for pulsing. It is available with slip, flanged or rolled inlet collars. Other options include auto flow control, input power disconnect, and dust drawer liners. The filters are Protura DH Nanofiber filter technology, the filters offer high operational efficiency, low operating pressure loss and reduced compressed air usage.



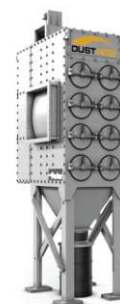
D Series Ambient

DA/DB/DBM Media Bag and Box Filter dust collectors can help your plant meet OSHA requirements for employee health and safety by removing contaminants from the air. Designed as a simple and economical solution to collect dry airborne particles, these systems circulate and filter out any particulate and may be suspended in the ambient air. These multi-purpose units contain high-efficiency filters ideal for removing smoke, dust and other pollutants from a facility with airflows from 1,350 to 3,600 CFM.



D Series Ambient

The high-performance, heavy duty SFC unit is ideal for all your dust and fume collection needs. Filtering out the polluted air that commonly occurs within a manufacturing environment, SFC's many industrial applications include grinding, welding, buffing, sanding, smelting, bulk powder handling, and more. Plus, our design allows for field expandability so you can add modules and increase the capacity of your system at any time. The SFC unit removes harmful pollutants resulting from common manufacturing processes such as grinding, welding, buffing and sanding. The result: a safer, cleaner environment for your employees.



SDC - Shaker Dust Collector

The SDC shaker-style systems safely and effectively collect airborne pollutants captured at the source helping ensure the safety of employees and students while achieving OSHA and NFPA regulatory compliance for combustible or explosive dusts. The SDC's proven performance in removing up to 99% of dust by weight will keep your facility cleaner which improves product quality, reduces maintenance time and ultimately, leads to operational savings.



MCB - Crossflow Dust Collector

The MCB unit creates a cross draft ventilation that eliminates hazardous contaminants before recirculating clean air. It prevents fine dust from migrating to areas with sensitive electrical and mechanical equipment. There are no obstructions from source capture devices, worker can perform their job with the need for fume arms, hoods or other barriers that can interfere with manufacturing operations and parts movement.



BHA Dust Cartridges

Parker Hannifin is at the forefront of technology and innovation; we develop and manufacture proprietary filter media technologies using our advanced research capabilities to ensure the latest developments are in our BHA® cartridge filters. ProTura®, the most advanced nanofiber filtration technology, and BHA® Preveil® among many other media choices are available in our pleated cartridge filter elements for use in most cartridge-style dust collectors.



BHA Neutralite

BHA® Neutralite® is injected into a baghouse to establish initial dust cake on new filter bags or to re-establish dust cake on bags in operation. BHA Neutralite powder was developed to protect bags from particulate bleed through, blinding, and problems caused by hydrocarbons and moisture carryover. Parker offers both BHA Neutralite Powder and BHA Neutralite SR (Spark Retardant) for specialized applications to help prevent bags from spark carryover.



BHA Visolite

BHA® Visolite®, a lightweight fluorescent powder used to facilitate finding leaks. The patented Leak Detection System can help reduce downtime and is more effective and safer than visual inspections. BHA Visolite is designed to provide the highest visibility for locating filter bag tears, holes, bad seals and structural weak points—such as weld cracks. To facilitate trying to find leaks, BHA Visolite, a lightweight fluorescent powder, is injected into the baghouse. The powder follows the path of least resistance, accumulating around the source of leakage. A monochromatic light is then used to pinpoint the exact location of air leakage and indicate its severity.



Gas Turbine Filters

With 50 years experience in gas turbine inlet filtration, we know how to develop and produce high quality gas turbine air inlet filters and systems that provide superior performance in a wide range of environmental conditions. Whether you need a cartridge, vCell, pocket or panel filter or a complete gas turbine inlet filtration system, our filtration solutions portfolio is designed to meet your operating goals.



Airguard HVAC Filters

Ideal for HVAC systems across commercial, industrial, institutional, and paint overspray markets that require a MERV 6 to MERV 16 efficiency per ASHRAE Filter Testing Standard 52.2. Parker offers a complete line of clean room, High-Efficiency Particulate Air (HEPA) and Ultra-Low Particulate Air (ULPA) standalone and pre-filters that remove microscopic particles and contaminants with efficiencies up to 99.999%. Our diverse product offering for paint overspray collection includes filters that meet National Emission Standards for Hazardous Air Pollutants (NESHAP) established by the Environmental Protection Agency (EPA), making our filters and filtration solutions ideal for aerospace, automotive, data and furniture applications.



PROCESS FILTRATION

Gas Filter-Separator Cartridges

Gas filter-separator cartridges remove wetted solid contaminants that are typically deformable or shear sensitive. The cartridges also aid in the coalescing process by forming liquid droplets that are removed afterwards by a liquid extraction device in the second stage of the filter vessel.



Gas Coalescer Cartridges

Gas coalescers are specifically designed to coalesce fine aerosol liquid droplets and mist from a natural gas stream. The gas usually flows from the inside diameter to the outside diameter of the cartridge. Typical liquids coalesced include NGL, condensate, amine, glycol and lube oils.



Gas Filter-Coalescer Cartridges

Gas filter-coalescers maintain coalescer performance levels with the added benefit of being able to remove large amounts of wetted solid contaminants. They are designed to capture solids on the first stage of the cartridge, keeping the second stage of the cartridge clean for maximum coalescing efficiency.



Dry Gas Filter Cartridges

Gas filter-separator cartridges remove wetted solid contaminants that are typically deformable or shear sensitive. The cartridges also aid in the coalescing process by forming liquid droplets that are removed afterwards by a liquid extraction device in the second stage of the filter vessel.



Liquid Particulate Cartridges

Liquid particulate cartridges are available in a variety of sizes and micron ratings in order to provide the optimal solution for a multitude of liquid applications. Cartridges are available in both depth and pleated filter technologies.



Liquid Particulate Filter Bags & Pleated Bag Replacements

Liquid filter bags offer an economical solution to liquid filtration. Bags are available to fit most bag housing styles. To extend time between bag change-outs, explore our line of pleated bag replacement cartridges which offer a high-capacity solids loading, longer life alternative.



Liquid Sorbents

Liquid sorbents, such as activated carbon, effectively reduce hydrocarbon contaminants in fluids such as a water, amine and glycol. These products are available in bulk activated carbon, granular activated carbon canisters, activated carbon block cartridges, and polymeric cartridges. Sorbents are typically used to aid in process fluid reclamation or to meet disposal limit requirements.



Liquid Two-Phase Coalescer & Separator Cartridges

Liquid coalescers and separators combine scientific principles and proven designs to perform the coalescence and separation between two immiscible liquids with different densities.



SERIES GEM2 & PGCPH, PEACH GEMINI PURASEP® 2

Horizontal gas coalescer providing ultra-clean gas with high efficiency removal of solid and liquid contaminants down to 0.3 microns. It is designed to remove liquids such as lubricating oils, low surface tension liquids and aerosol mists. Made in 6" to 84" diameters with stock options available.



SERIES 77V, SPARTAN PURASEP®

Vertical gas coalescer with highly efficient removal of aerosol mist down to the 0.3 micron level. Made in 6" to 60" diameters with stock options available.



SERIES 89, SMALL VOLUME

Vertical gas coalescer used for smaller volume applications with a maximum liquid loading of 8 gallons per day. Liquid aerosol removal down to the 0.3 micron level. Stock units available from 6" to 10" diameter at 150# ANSI rating.



SERIES 75TL, TITAN PURASEP®

Vertical and horizontal quick change filter-separator for solid and liquid contaminant removal 1 micron and larger. Vessel contains a first stage filter cartridge followed by a second stage mist extraction device such as a wave plate or cyclotube. Made in 6" to 84" diameters.



SERIES 85, SMALL VOLUME

Vertical gas coalescer with highly efficient removal of aerosol mist down to the 0.3 micron level. Made in 6" to 60" diameters with stock options available.



SERIES 70TL, TITAN PURASEP® SERIES 30, IN-LINE CAST STEEL SERIES 30F, IN-LINE FABRICATED STEEL

Vertical and horizontal quick change gas filter for removal of dry, solid contaminants. Variety of micron rating filtration levels available. Made in 6" to 84" diameters.



SERIES 30, IN-LINE CAST STEEL

In-line dry gas filter for gas distribution, regulator stations, instrument gas applications. Variety of micron rating filtration levels available. Made in cast steel design, units are available in 2", 3" and 4" flange connections at 150#, 300# and 600# ANSI ratings.



SERIES 30F, IN-LINE FABRICATED STEEL

In-line dry gas filter for gas distribution, regulator stations, instrument gas applications. Variety of micron rating filtration levels available. Made in fabricated steel design, units are available in 2" to 12" flange connections at 150#, 300# and 600# ANSI ratings.



SERIES 95, VANE STYLE

Vertical and horizontal separators and scrubbers utilizing a vane mist extractor to remove liquid contaminants 8-10 microns and larger. Best for removing hydrocarbon liquids and water. Made in 12" to 120" diameters.



SERIES 95-CT, CYCLOTUBE® STYLE

Vertical and horizontal separators and scrubbers utilizing a cyclotube mist extractor to remove liquid contaminants 3 -5 microns and larger. Best for removing crawling liquids and low surface tension liquids such as lube oil, glycol, paraffin, brine, asphaltenes. Made in 12" to 120" diameters.



SERIES 55X, XTREAMPURE® HIGH FLOW STYLE

Vertical and horizontal liquid filter for removal of solid contaminants. Provides high flow rate and high contaminant loading by utilizing large 6" diameter cartridges in 40", 60", 80" lengths. Variety of cartridge styles and micron rating filtration levels available. Made in 10" to 84" diameters.



SERIES 55, TRADITIONAL STYLE

Vertical and horizontal liquid filter for removal of solid contaminants. Uses traditional 2.5" and 3" diameter cartridges. Variety of cartridge styles and micron rating filtration levels available. Made in 6" to 72" diameters.



SERIES 55C, CHEMELEAN® ECONOMY LINE

Liquid filter for removal of solid contaminants for flows up to 200 gpm. Comes in two sizes to hold a 20" or 40" length cartridge. Comes in 8" diameter and 150# ANSI rating. 2" NPT connections with option for 2" flange connections. Clamp saddles or legs allow for vertical or horizontal mounting.



SERIES 110XP, XTREAMPHASE® HIGH FLOW STYLE

Horizontal vessel for coalescing and separating two immiscible liquids with an inlet discontinuous phase up to 10% by volume. Uses high flow style toolless cartridge technology with an advanced new vessel design to optimize separation. Made in 10" to 84" diameters.



SERIES 110, XTREAMPHASE® TRADITIONAL TWO-STAGE

Vertical and horizontal vessel for coalescing and separating two immiscible liquids with an inlet discontinuous phase up to 5% by volume. Removes discontinuous phase down to 8 ppm(v) or less. Uses hydrophilic coalescer and hydrophobic separator cartridges. Made in 14" to 60" diameters.



SERIES 110, XTREAMPHASE® TRADITIONAL SINGLE STAGE

Horizontal vessel for coalescing and separating two immiscible liquids. Density difference needs to be at least 20%. Uses mesh pad (wafer pack) to remove discontinuous phase. Removal performance excelsior or stainless steel 50-75 ppm(v) and glass 15-20 ppm(v). Made in 8" to 84" diameters.



SERIES 10, CANISTER STYLE

Vertical vessel using quality, activated carbon in canisters to adsorb dissolved liquid impurities from process streams such as air, gas, water, amine and glycol. Helps prevent foaming, odor and hydrocarbon contaminant build-up. Made in 14" to 66" diameters.



SERIES 10FB, FIXED BED STYLE

Vertical vessel using a fixed bed of quality, activated carbon to adsorb dissolved liquid impurities from process streams such as air, gas, water, amine and glycol. Helps prevent foaming, odor and hydrocarbon contaminant build-up. Made in 24" to 140" diameters.



SERIES 14, XTREAMSORB FILTER-ADSORBER

Vertical 2 stage Filter-Adsorber uses PEACH media to filter particulate & absorb hydrocarbons, followed by extruded carbon block to adsorb impurities from process streams (air, gas, water, amine & glycol). Helps prevent foaming, odor & hydrocarbon contaminant build-up. Made in 8" to 72" diameters.



Automated sterile filtration system, CSM

Parker and Agidens Process Automation offer fully automated sterile filtration systems, which may be specifically tailored to your unique brewing process. The CSM range of beer sterile filtration systems provide either continuous or batch processing combined with automated CIP and integrated integrity testing, ensuring complete microbial control for breweries of all production capacities.



PSD Sanitary Lenticular Housing

Parker's PSD sanitary stainless steel lenticular housing series is designed to meet the quality standards of the food & beverage, cosmetics, electronic, pharmaceutical, and chemical industries for depth filtration. The highly polished mirror finish of the 316L filter housings inside and out provide superior corrosion resistance and minimize the process fluid from adhering to the internal surfaces, thus enhancing the cleaning operation. The highly corrosive-resistant material is ideal because of its superior strength and chemical compatibility.



Depth-Clear S-Series Lenticular Filters

Depth-Clear S-Series depth lenticular filters are constructed of specially formulated cellulose media and inorganic filter aids to provide reliable particle retention and enhanced throughput for superior performance in critical applications.



Depth-Clear Filter Sheets | Food and Beverage

Parker's Depth-Clear Filter Sheets are designed with a proprietary formulation which produces precision depth media, superior filtration, and long onstream life cycle in critical applications.



Depth-Clear Activated Carbon Lenticular Filter

The Depth-Clear activated carbon lenticular filter has highly porous, activated, carbon-cellulose fibers and a cationic resin for efficient absorption of color, hazes, proteins, and bioburden.



Depth-Clear H-Series Lenticular Filters

The Depth-Clear H-Series lenticular filters provide reliable particle retention and enhanced throughput for superior performance in food and beverage applications. The filters are made of a specially formulated filter media with cellulose and inorganic filter aids and provide a 150 percent increase in media strength.



Depth-Clear II Dual Layer Lenticular Filter

The Depth-Clear II dual-layer lenticular filter has two serial layers of proprietary depth media creating a dual-zone filter module for increased throughput, reduced premature blinding, and increased operating efficiency.



Depth-Clear P & LE-Series Lenticular Filters

Depth-Clear P and LE-Series lenticular filters are specifically formulated to meet performance requirements for applications in the pharmaceutical and biotech industries. Both filter grades have complete product control and traceability.



Depth-Clear D Dual Layer Encapsulated Lenticular Filter

The Depth-Clear D dual-layer encapsulated lenticular filter is designed for single-use filtration providing positive containment with intuitive operation. Its simplicity of design and operation are complemented using advanced cellulosic depth medias designed and manufactured for the bio-pharmaceutical industry. This filter features Parker-patented core assembly for support and seal.



PROPOR HC

PROPOR HC filters offer effective and economical processing of difficult to filter or viscous solutions. The optimized PROPOR HC PES membrane configuration features a highly asymmetric membrane prefilter layer, which significantly extends throughput and prevents the problems associated with premature filter blockage with complex solutions.



PROPOR BR

PROPOR BR filters feature an integral meltblown prefilter layer to maximize dirt holding capacity while the polyethersulfone membrane guarantees a bioburden log reduction of greater than 5 giving excellent microbial protection. This makes PROPOR BR ideal for bioburden reduction of LVPs prior to terminal sterilization.



PROPOR MR

PROPOR MR filters have been designed to remove mycoplasma without compromising on flow rates for quick processing of cell culture media and reduced risk of contamination. Incorporating a highly retentive 0.1 micron rated PES membrane, PROPOR MR is validated against the industry standard *Brevundamonas diminuta* as well as *Acholeplasma laidlawii*, a common mycoplasma species found in contaminated cell cultures.



TETPOR PLUS

TETPOR PLUS filters are manufactured entirely from fluoropolymers making them extremely resistant to a wide range of aggressive chemicals. The increasing use of ozonation for the treatment of WFI systems has highlighted compatibility issues with vent filters based on standard polypropylene components. 0.2 micron sterilizing grade TETPOR PLUS filter cartridges provide guaranteed long term performance in these applications with the additional benefit that the filter's integrity can be validated by the water intrusion test method.



PROPOR LR

A number of studies have concluded that not all microorganisms are removed 0.2 micron rated membranes under all conditions. PROPOR LR filters use a 0.1 micron rated membrane, which can remove diminutive organisms, while maintaining flow rates typical of a 0.2 micron filtration system.



SWC Wound Filter Cartridges

The SWC filter cartridge offers a wide range of fibers and core materials. Roving is wound onto a center core for strength. The diagonal pattern of the media forms a tight, interlocking weave. Parker domnick hunter Process Filtration has one of the world's largest manufacturing plants for wound cartridges, offering superior quality along with technical, engineering and marketing support.



Flo-Pac Pleated Cellulosic Filter Cartridges

Parker Fulflo® Flo-Pac® Filter Cartridges are the perfect choice for many industrial filtration requirements. Flo-Pac® pleated filter cartridges contain premium grade, phenolic impregnated cellulosic filter media. Parker's line of pleated filter cartridges are designed for critical filtration applications, providing long service life, high flow rate and low pressure drop.



Fulflo Metallic 304 and 316 stainless steel filter cartridges

Parker's Fulflo® stainless steel filter cartridges provide the optimum filtration solutions for filtering liquids and gases in high temperature and high flow rate applications. Available in a cylindrical or pleated design, cleanable stainless steel filter cartridges are the logical choice when natural and synthetic media filter cartridges cannot meet aggressive process liquid filtration conditions.



Fluoroflow

The Fluoroflow® pleated membrane filter cartridge is our standard product for aggressive wet etch and clean and industrial chemical filtration applications. The filter provides good flow rates and on-stream life at an economical cost. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 150°C. It is available either ozone DI flushed and dried or wet-packed for quick installation.



Fulflo XTL Wound Filter Cartridges

The unique construction of Parker's patented Fulflo® XTL™ (extended life) filter cartridges provides twice the average life of conventionally wound filter cartridges for process fluid filtration. Computer modeling has optimized the wound cartridge geometry maximizing the use of the internal cartridge surface area. The enhanced design provides improved dirt-holding capacity (twice the average) over standard wound cartridges, while providing true controlled depth filtration.



Fulflo Honeycomb Wound Filter

Parker has been a leader in filter media innovation and performance since we first invented the Honeycomb™ Filter Tube over 65 years ago. Parker has the world's largest manufacturing capacity for wound filter cartridges, offering superior quality along with technical, engineering and marketing support. Effective removal ratings at nominal 90% efficiency from 0.5µm to 150µm.



BEVPOR MS

BEVPOR MS filter provide full retention to industry regulated, water contaminating organisms to ensure the microbiological safety of bottled water. The inert and highly asymmetric PES membrane provides validated microbial retention to regulated, contaminating organisms. The 0.2 micron grade provides complete sterility in accordance with ASTM F838-05 requirements. Combined with hydrophilic properties for easy integrity testing, BEVPOR MS filters provide assured performance throughout their service life.



Abso-Mate™ Pleated Melt Blown Filter

Parker's Abso-Mate™ Filtration Cartridges provide the ultimate in economical filtration for even the most critical process fluids. The proprietary melt blown media is rigidly controlled for reliable results time after time. Abso-Mate cartridges are produced without adhesives that can potentially contaminate fluids.



Oilblock

OILBLOCK™ absorption cartridges are specifically manufactured for the high efficiency removal of free dispersed oils from water. The cartridges employ a proprietary modified polymer that both absorbs and chemically binds the hydrocarbon molecules into its interior matrices, the oil cannot be released once absorbed. Consequently these properties make Oilblock cartridges an effective absorbent for free emulsified and dissolved oils, synthetic lubricants, grease and a multitude of organic solvents.



Oilclog

OILCLOG absorption cartridges are specifically manufactured for produced water treatment at oil & gas production facilities. Oilclog absorption cartridges are highly efficient in the removal of free and dissolved hydrocarbons (TPH) and emulsified oils from water. The absorption media is granulated organic material, impregnated with a powerful surfactant that quickly absorbs the hydrocarbons and forms a bond with the oil. Contaminated water flows from the top to the bottom of the cartridge trapping the oil inside the element.



Fluoroflow-Select Pleated Membrane Filter

The Fluoroflow-Select pleated membrane filter cartridge provides exceptional flow rates and on-stream life. It utilizes our unique SELECT pleat technology which increases filtration area and flow rate by over 70% versus our standard Fluoroflow filter. This results in increased bath turnover and longer filter life demanded by today's fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C.



DuraBond Melt Blown Filter

DuraBond™ melt blown filter cartridges are the most economical high strength filter cartridges available. Featuring an integral rigid thermally bonded construction, the DuraBond filter cartridge provides consistent filtration for a wide variety of fluids. Its fixed pore structure acts as a sieve-like particle "classification" filter for pigmented coatings allowing pigments to pass while stopping large agglomerates.



Fluoroflow-XL Membrane Filter

The Fluoroflow®-XL filter cartridge is setting the new standard for exceptional flow rates and on-stream life. It utilizes a larger diameter filter cartridge (3.25") combined with our unique SELECT pleating technology that increases filtration area and flow rate by over 70%. This results in increased bath turnover and longer filter lifetime demanded by today's advanced 300mm fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180 °C.



Flo-Pac Plus Pleated Cellulosic Filter

Parker Fulflo® Flo-Pac®+ pleated filter cartridges are the filters of choice for many industrial filtration requirements. These filter cartridges are manufactured with premium grade, phenolic impregnated cellulosic filter media for long service life, high flow rate and low pressure drop. Unique epoxy resin bonding of end caps, pleat side seal and gaskets provides excellent resistance to most organic solvents.



MaxGuard

Parker's MaxGuard™ high capacity filter cartridge product line provides a cost-effective alternative to bag media or standard 2½ inch filter cartridges for high flow applications. Each MaxGuard filter cartridge has a 6" nominal outside diameter and can handle flows up to 90 gpm, significantly reducing the number of filter cartridges required for large flow applications. MaxGuard filter cartridges are available in polypropylene, and cellulose media. All filter cartridges feature an industry standard 226 positive O-ring seal and easy-to-grasp integrated handle.



Fulflo TruBind 300 Sorbent Filter

Parker Fulflo® TruBind™ absorbent filter cartridges utilize a modified polymeric absorbent that economically and effectively reduces trace hydrocarbon contamination in aqueous fluids. The enhanced polymer, configured in a radial-flow-design filter cartridge, provides maximum utilization of available surface area. This product can be used alone or as an enhancement to other systems. Whether process fluid reclamation or meeting disposal requirements is the goal, TruBind can solve many demanding hydrocarbon-contaminated aqueous fluid problems.



BEVPOR MH

BEVPOR MH filter cartridges have been specifically designed for sterilization and stabilization of a range of beverages prior to filling operations. The unique construction delivers class-leading service lifetime and returns lowest cost of ownership for leading beverage processes.



PROCLEAR GF

PROCLEAR GF liquid filters deliver reliable and cost-effective removal of particulate and microorganisms from pharmaceutical liquids. The glass microfibre filtration media offers maximum throughput and flow rates for economical clarification.



BEVPOR MW

Parker domnick hunter's BEVPOR MW filter cartridges provide full retention to industry regulated, water contaminating organisms to ensure the microbiological safety of bottled water, designed for increased process control and operational efficiency.



BEVPOR PH

Parker's BEVPOR PH filter cartridges provide validated microbial retention to industry regulated contaminating organisms. Designed to provide the optimum solution for the microbial stabilization of wine, beer and bottled water.



BEVPOR PS

BEVPOR PS filter cartridges have been specifically designed as a cost-effective solution for microbial stabilization of bottled water, beer stabilization and wine.



PROCLEAR PP

PROCLEAR PP liquid filters are ideal for the general pharmaceutical clarification duties. The all polypropylene construction makes these filters especially suited to applications where chemical compatibility could be an issue.



PROPOR SG

PROPOR SG filters provide fast, economical and validated sterile filtration of pharmaceutical liquids such as biopharmaceutical products and intermediates, buffers, water and reagents. The asymmetric pore structure and high voids volume of the PROPOR SG membrane allow high throughputs and exceptionally high flow rates compared with competitive PES and alternative membranes. Low protein and preservative binding properties minimize product loss due to adsorption.



Polyflow Membrane Select Filter

Polyflow® Membrane-SELECT filter cartridges are optimized for use in microelectronics applications such as bulk chemicals and photoresists. The all-polypropylene construction is an economical alternative to fluoropolymer-based filter cartridges. The innovative SELECT pleating provides increased performance over competitive filter cartridges. The filter membrane area is increased by about 30% while flows are more than 50% higher within the same footprint. The result is one of the longest-lasting filter cartridges on the market.



Fluoroflow-HSA Pleated Membrane Filter

The Fluoroflow®-HSA filter cartridge provides good flow rates and on-stream life. The enhanced pleating provides more than 40% more surface area than our standard Fluoroflow filter cartridge. This results in increased bath turnover and longer filter lifetime demanded by today's fabs. The all fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C.



Chemflow-PE Select Pleated Membrane Filter

The Chemflow®-PE SELECT filter cartridge uses a PTFE membrane along with HDPE supports that provide an economical high-performance alternative to all-fluoropolymer filter cartridges. The Chemflow®-PE SELECT filter cartridge provides a high degree of retention and cleanliness. With its unique SELECT pleating technology, the liquid flow rates are increased by up to 50% compared to our standard Chemflow®-PE.



MaxGuard

Parker's new Fulflo® MaxGuard Select high-capacity filter cartridge product line provides a cost-effective alternative to bag media or standard 2½ inch filter cartridges for high flow applications. Each MaxGuard Select filter cartridge can handle flows up to 100gpm, significantly reducing the number of filter cartridges required for large-flow applications. MaxGuard Select contains up to 40% more dirt-holding capacity than the standard MaxGuard filter. The MaxGuard Select filter cartridge is available with polypropylene media. All cartridges feature an industry standard 226 positive O-ring seal and an easy-to-grasp integrated handle.



TETPOR LIQUID

TETPOR LIQUID filters are particularly suitable for sterilization and particulate removal from aggressive chemicals (including acids, bases and solvents) within a wide range of critical processing industries. The superior performance, strength and durability of TETPOR LIQUID filters stems from the use of a single layer, high security PTFE membrane, which has a high dirt holding capacity due to its high void volume. This results in low pressure drops and long service life. High flow rates are achieved due to the optimized pleat pack density and the superior design construction of TETPOR LIQUID filters.



Fluoroflow-XF Membrane Filter

The Fluoroflow®-XF filter cartridge uses a superior high-flux asymmetric PTFE membrane which provides unmatched flow rates and on-stream life. Customers using the filter cartridge for viscous fluids like phosphoric acid, have reported flow rates and lifetimes more than twice that of the leading competitor. The benefits of increased bath turnover and longer life are improved process performance and lower filtration costs. In addition, the all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 150°C.



ParMax

The best of pleated and large diameter technologies are combined in Parker's ParMax™ high-flow filter cartridges. ParMax filter cartridges are available with polypropylene and microfiberglass media in absolute (99.98%) ratings from 0.8 to 90 micron. The filters unique layered construction provides excellent retention across a wide range of flux rates. One-six inch diameter filter cartridge can handle up to 500gpm flow (60" length). The inside-to-outside flow allows for a high contaminant holding capacity.



Fulflo Mega Flow

Parker's Fulflo® Mega-Flow™ filter cartridges are a cost-effective alternative to wound and other 2½ in. OD style filter cartridges in high flow applications, such as reverse osmosis pre-filtration, where nominal efficiency is sufficient. Each Mega-Flow cartridge can handle flow rates up to 175 gpm (662 lpm), which reduces the number of filter cartridges required and allows for smaller housings. Each 6-inch (152 mm) diameter Mega-Flow cartridge has flow capacity equal to 8 standard 2½ in. OD X 40 in. long cartridges. Positive O-ring seals and a built-in handle make cartridge installation reliable, fast & easy.



Fulflo Mega Flow Plus

Parker's Fulflo® Mega-Flow™ Plus filter cartridges are ideally suited for high flow applications where absolute particle removal is required. Each Mega-Flow Plus filter cartridge can handle flow rates up to 175 gpm (662 lpm), significantly reducing the number of filter cartridges required as well as the housing size. Each 6-inch (152 mm) diameter Mega-Flow+ filter cartridge has flow capacity equal to 8 standard 2 ½ inch OD X 40-inch-long cartridges. Positive O-ring seals and a built-in handle make cartridge installation reliable, fast and easy.



Fulflo PCC Pleated Cellulosic Filter

Parker Fulflo® Pleated Cellulosic Filter Cartridges meet a broad range of critical filtration applications. Each filter cartridge in the Fulflo Pleated Cellulosic series is manufactured with premium grade, phenolic impregnated, cellulosic filter media. Phenolic resin locks the cellulosic fibers into a rigid, porous matrix. This structure provides superior particle removal and particle retention performance under the most severe conditions.



Chemflow-PE

The Chemflow®-PE filter cartridge uses a PTFE membrane along with HDPE supports that provide an economical alternative to all-fluoropolymer cartridges. It provides a high degree of retention and cleanliness along with good flow and lifetime. This filter is ideally suited for bulk chemical delivery and lower temperature wet processes (<60°C). It is available dry or wet-packed for quick installation.



Fulflo Honeycomb Ultrafine Wound Filter

Parker has been a leader in filter media innovation and performance since we first invented the Honeycomb™ Filter Tube over 65 years ago. Parker has the world's largest manufacturing capacity for wound cartridges, offering superior quality along with technical, engineering and marketing support. Effective removal ratings at nominal 90% efficiency from 0.5µm to 150µm.



Fulflo TruBind 400 Sorbent Filter

Parker Fulflo® TruBind™ absorbent filter cartridges utilize a modified polymeric absorbent that economically and effectively reduces trace hydrocarbon contamination in aqueous fluids. The enhanced polymer, configured in a radial-flow-design filter cartridge, provides maximum utilization of available surface area. This product can be used alone or as an enhancement to other systems. Whether process fluid reclamation or meeting disposal requirements is the goal, TruBind filters can solve many demanding hydrocarbon-contaminated aqueous fluid problems.



Glass-Mate

Glass-Mate™ filter cartridges offer an economical choice for absolute-rated efficiency, high flow rate capability and long service life. A wide variety of construction components, end fittings and seal options make this product line ideal for pre-filtration and point-of-use filtration for many industrial applications.



MegaBond

MegaBond™ Nominal (MBN) filter cartridges are the most economical high purity filter cartridges available. Featuring a graded density matrix of uniform polypropylene fibers, the MBN provides consistent filtration for a wide variety of fluids. No fiber finish or surfactants are present to generate extractables leading to foaming or other undesirable effects on the filtrate.



Proflow II-E

The Proflow™II-E filter cartridge uses a PTFE membrane along with high-purity polypropylene supports that provide an economical alternative to all-fluoropolymer filter cartridges. It provides a high degree of retention and cleanliness along with good flow and lifetime. This filter is ideally suited for ultrapure microelectronics fluids and gases. The hydrophobic PTFE filter membrane serves as a highly efficient barrier to insure low moisture content of gases. It is available dry or wet-packed for quick installation and lower extractables.



Proflow II-G

Proflow™ II-G filter cartridges provide an economic alternative for general applications where reliable gas and liquid flow rates are required. With 5.6 square feet of expanded PTFE membrane, Proflow II-G filter is a highly efficient hydrophobic barrier, for the production of dry gas, and will effectively purify aggressive liquids and organic solvents. Proflow II-G cartridges are manufactured under cleanroom conditions and integrity tested before shipment to assure consistent performance and quality.



Chemflow-XF

The Chemflow®-XF filter cartridge uses a superior asymmetric PTFE membrane which provides unmatched flow rates and on-stream life. It is constructed with HDPE supports providing an economical alternative to all-fluoropolymer filter cartridges while still maintaining a high degree of retention and cleanliness. This filter is ideally suited for bulk chemical delivery and lower temperature wet processes (<60°C).



Proflow II-E Select

The Proflow™ II-E-SELECT filter cartridge provides exceptional flow rates and on-stream life. It uses a PTFE filter membrane along with high-purity polypropylene supports that provide an economical alternative to all-fluoropolymer filter cartridges. With its unique SELECT pleating technology, the liquid flow rates are increased by up to 50% versus our standard Proflow II-E filter. This filter is ideally suited for ultra-pure microelectronics fluids and gases. It is available dry or wet-packed for quick installation and lower extractables.



Proflow-HE

The Proflow™-HE filter cartridge is designed for filtration of microelectronic (MiE) fluids. High-purity polypropylene and hydrophilic PTFE provide an economical alternative for the filtration of various MiE chemicals. The hydrophilic nature of the PTFE filter membrane does not require pre-wetting for aqueous based liquids typically necessitated with standard PTFE filter membranes. This can reduce total operating cost and improve process up-times.



Clariflow-WG

The Clariflow-WG Pleated Membrane Filter Cartridge is built around a unique polyethersulfone (PES) membrane that is inherently hydrophilic, and contains no added surfactants or wetting agents. It delivers clean filtrates, flow rates, extended service life and excellent resistance to hydrolysis. Water Service cartridges are fabricated under cleanroom conditions.



Clariflow-G

Clariflow® General grade filter cartridges are designed for general-purpose use in the filtration of high-purity liquids and aqueous chemicals. The mirrored-anisotropic Polyethersulfone (PES) membrane is inherently hydrophilic and has a pore morphology that delivers exceptionally high flow rates. Because there are no added surfactants or wetting agents, and the support layers and structure are all-polypropylene, the filter exhibits low extractables, broad chemical compatibility and good resistance to hydrolysis.



Clariflow-WE

Clariflow® -WE filter cartridges provide an economical way to filter fluids used in microelectronics such as DI water and aqueous-based chemicals. Constructed of the same high-quality materials as Clariflow®-E or E-SELECT, these filter cartridges are suited to less demanding applications with respect to flow and lifetime. The combination of hydrophilic PES membrane and a high-purity, all-polypropylene support structure results in a very low level of ionic and organic extractables, broad chemical compatibility, and resistance to particle shedding.



Fulflo 1401

Parker's Fulflo® 1401 pleated filter cartridges are designed to replace similar competitive filter cartridges in high pressure water injection and disposal, gas streams, and fluid processing. Available in cellulosic and polypropylene media.



Clariflow-WN (Wine Grade)

At the heart of the Clariflow-WN (Wine Grade) pleated membrane filter cartridge design is a special membrane composed of polyethersulfone (PES). Choosing either the 0.65 or 0.45 µm pore sizes for red and white wines, PES membrane offers superior flow, extended on-stream life, and the consistent removal of micro-organisms and particulates. Clariflow-WN (Wine Grade) cartridges are inherently hydrophilic, and contain no added surfactants or wetting agents. The PES membrane also exhibits low color-binding characteristics. This ensures that the filter will not affect the taste of the wine being processed.



Avasan Melt blown Filter

Avasan melt blown filter cartridges are manufactured with a proprietary manufacturing process using a specially formulated polypropylene polymer. This formulation provides a uniquely graded density filter cartridge designed for high purity applications. The fiber matrix of the cartridge has been engineered to provide structural integrity throughout the long service life of the cartridge and the finish-free construction provides optimum fluid purity and eliminates foaming. Avasan's inherent fluid compatibility properties plus graded density make it the economical filter choice for high clarity requirements.



Clariflow-E

Clariflow® -E filter cartridges are optimized for use in microelectronics applications such as DI water and aqueous-based chemicals. The unique mirrored-anisotropic PES (Polyethersulfone) filter membrane has exceptionally high flow rates and on-stream lifetime while providing consistent removal of both organic and inorganic particulates. The combination of hydrophilic PES filter membrane and a high-purity, all-polypropylene support structure results in a very low level of ionic and organic extractables, broad chemical compatibility, and resistance to particle shedding.



Clariflow-E-Select

Clariflow® -E-SELECT filter cartridges are optimized for use in microelectronics applications such as DI water and aqueous-based chemicals. The unique mirrored-anisotropic PES (Polyethersulfone) filter membrane has exceptionally high flow rates and on-stream lifetime while providing consistent removal of both organic and inorganic particulates. The innovative SELECT pleating provides increased performance over competitive filter cartridges. The filter membrane area is increased by over 50% while flows are 40% higher within the same footprint. The result is one of the longest lasting filter cartridges on the market.



Clariflow-XP and -XL

Extra protection and extended life are what make Clariflow -XP & -XL filters ideal for the clarification of particulate-laden biological and pharmaceutical solutions. A double-layered configuration of PES membrane (0.45 or 0.65µm over 0.2µm) provides for a built-in pre-filter which decreases the potential for premature fouling as may be seen with competitive 0.2µm rated filters. In addition, the non-fiber-releasing membrane offers superior flow and will provide typical microbial retention of up to 107 /cm² organisms (*B. diminuta*) per HIMA guidelines.



Claripor

The best of pleated and depth style technologies combine in Parker's Claripor™ pleated depth filter cartridges. The unique layered construction provides absolute retention with high flow rates and excellent gel removal. These features, in addition to Claripor's pleated depth filter cartridges high contaminant holding capacity and exceptional clarifying ability make it an ideal choice for a wide array of critical process applications. Claripor filter cartridges are available with polypropylene media in absolute (99.98%) micron ratings from 0.5 to 90 microns.



Evadur

The best of pleated and depth style technologies combine in Parker's Claripor™ pleated depth filter cartridges. The unique layered construction provides absolute retention with high flow rates and excellent gel removal. These features, in addition to Claripor's pleated depth filter cartridges high contaminant holding capacity and exceptional clarifying ability make it an ideal choice for a wide array of critical process applications. Claripor filter cartridges are available with polypropylene media in absolute (99.98%) micron ratings from 0.5 to 90 microns.



Polyflow

Polyflow® Membrane filter cartridges are optimized for use in microelectronics applications such as bulk chemicals and photoresists. The all-polypropylene construction is an economical alternative to fluoropolymer-based cartridges.



Polyflow-G

Polyflow®-G depth filter media has been developed for a wide variety of general process applications from fluid clarification to general prefiltration. Its high dirt-loading, random-fiber polypropylene depth media provides consistent particle retention. Polyflow-G filter media is thermally bonded from 100% virgin polypropylene to ensure clean filtrates and excellent chemical and thermal compatibility in the most demanding processing conditions. Polyflow-G filter media leads in overall reduction of filtration costs when compared to spunbonded, stringwound, and nominally-rated pleated pre-filter cartridges. Its longer filtration life reduces downtime due to fewer change-outs.



Poly-Mate Plus

Poly-Mate™ Plus Pleated Depth Filter Cartridges, made of pleated polypropylene microfiber, provide high efficiency and high purity filtration making them an ideal membrane pre-filter or cost-effective alternative to membrane cartridges.



Fluorocap Filter Capsule

The Fluorocap® encapsulated filter cartridge is our standard product for aggressive wet etch and clean applications. It provides good flow rates and on-stream life at an economical price. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Its integral filter design maximizes up-time with safe and simple change-outs. Available wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.



Steelflow

The Steelflow™ filter cartridge product line has been developed for microfiltration applications requiring a cartridge that will tolerate extreme thermal ranges and differential pressures while providing an extended service life and excellent dirt-holding capacity. Steelflow filter cartridges attain their superior performance due to our proprietary 421® filter medium, composed of 100%, 316L random fiber stainless steel. The unique calendering process compresses the fiber matrix to form specialized filter media which provides consistently high porosities and large filtration areas.



Fluorocap-Select

The Fluorocap®-SELECT encapsulated filter cartridge provides exceptional flow rates and on-stream life. It utilizes our unique SELECT pleating that increases filtration area and flow by over 25% compared to our standard Fluorocap. This results in increased bath turnover and longer filter lifetime demanded by today's fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Its integral filter design maximizes up-time with safe and simple changeouts. Available wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.



Fluorocap -XF

The Fluorocap®-XF encapsulated filter cartridge uses a superior asymmetric PTFE membrane which provides unmatched flow rates and on-stream life. Customers using the capsule for viscous fluids like phosphoric acid, have reported flow rates and lifetimes more than twice that of the leading competitor. The advantages of increased bath turnover and longer lifetime improve yields while decreasing filtration costs. In addition, the all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Its integral filter design maximizes up-time with safe and simple change-outs.



Fluorocap-XL

The Fluorocap®-XL encapsulated filter cartridge is setting the new standard for exceptional flow rates and onstream life. It utilizes a larger diameter filter cartridge combined with our unique SELECT pleating that increases filtration area by over 70%. This results in increased bath turnover and longer filter life to meet the demands of today's advanced 300 mm fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180°C. Its integral filter design maximizes up-time with safe and simple change-outs. Available wet-packed for quick installation or Ultraclean wet-packed which offers the lowest metals extractables in the industry.



PLEATFLOW TH

The contaminants present in well injection fluids can lead to formation blockage ultimately decreasing productivity. PLEATFLOW TH cartridges will reliably and effectively resolve these issues. The high performance Pleatflow TH cartridge is specifically manufactured for the filtration of oilfield fluids and its fully thermal welded construction ensures safe operation and optimum filtration performance. Pleatflow TH elements are manufactured with a rigid outer cage ideally suited for use in harsh oilfield environments and available in a wide range of microns suitable for the protection of oilfield formations.



PLEATFLOW

The Pleatflow range of filter cartridges offer ideal solutions for the pre and final filtration of a wide variety of process liquids, providing long service life at minimal cost. The 100% polypropylene hardware construction of the filter ensures minimum extractable levels with a range of industrial solvents and optimal integrity when used in physically demanding applications. Pleatflow filter cartridge manufacturing utilises graded density medias in both glass fibre and polypropylene. The filter design provides broad chemical compatibility, consistent efficiency and superior service life.



PROSTEEL

PROSTEEL filters are ideally suited to filtration of solvents used in a wide range of presses in pharmaceutical production. This range of stainless steel filters provides the solution to compatibility issues while maintaining excellent flow rates for clarifying duties. The filters are available in two formats, in absolute and nominal retention ratings and in a pleated or cylindrical wrap construction. This allows a cost-effective selection depending on flow rate, retention and dirt holding requirements.



Cryptoclear PES

Cryptoclear PES filter cartridges have been specifically designed and independently tested for the removal of *Cryptosporidium parvum* oocysts. This eliminates the threat of cryptosporidium infection from the water supply. Designed with an asymmetrical pore structure, with a high voids volume, Cryptoclear PES offers unrivalled retention capacity, for high throughputs and high flow rates. The strong robust construction allows for repeated cleaning and sanitization in-situ. With an extended service life, total cost of filtration can be reduced.



Cryptoclear PLUS

Cryptoclear PLUS pleated filter cartridges have been specifically designed for the reduction of *Cryptosporidium parvum* oocysts from water in food, beverage and healthcare industries. With graded density polypropylene pleated media, designed for optimized dirt holding capacity and oocyst reduction, Cryptoclear PLUS cartridges deliver extended lifetime to blockage, under high particulate loading conditions.



PEPLYN HA

PEPLYN HA filter cartridges have been specifically designed to provide the optimum solution for particulate removal in liquid clarification applications. The filtration media balances a high surface area and closely controlled porosity, in a configuration that maximizes the cleaning efficiency of the cartridge through backwash procedures. Capture of larger insoluble particulate is predominantly on the surface of the media, where the rigid, open pleat structure ensures that backwash cleaning provides effective removal.



PEPLYN HD

PEPLYN HD Filter media has outstanding particle holding capacity through its multi-layer high depth construction, providing extended service lifetimes and consistent quality filtrate under demanding conditions. Capture of particles is through the depth of the media with larger particles being retained in the outer prefiltration layers, while the inner graded density media provides accurately defined retention to finer particulate. Both these mechanisms combine to provide a cartridge filter which returns extended service lifetimes.



PEPLYN TF

PEPLYN TF filter cartridges have been specifically designed to protect wine from residual particulate which can remain following primary clarification processes, as well as protecting beer from the passage of filter aids and lees used in primary clarification processes. The carefully constructed polypropylene media ensures insoluble particulate is captured on the surface of the filtration media in a way that it can be removed easily through backwashing. This feature, combined with the strong, rigid construction provides reliable filtration performance over extended operational lifetimes.



PREPOR NG

PREPOR NG filter cartridges advance the technology offered by Parker's existing, widely used and respected PREPOR products. This range of filter cartridges has been designed for use in pre-stabilization applications in beer, wine, and bottled water processing. Designed utilizing Parker's considerable expertise in the sector, and in close cooperation with leading beverage producers, PREPOR NG prefilters provide excellent process control, high efficiency and security. Strong and durable construction ensures increased service life and minimal process downtime versus other products on the market.



BEVPOR BR

BEVPOR BR filters protect the unique characteristics of beer by removing yeast and other spoilage organisms to ensure microbial stability during cold stabilization. The inert and highly asymmetric PES membrane provides validated microbial retention to typical spoilage organisms, whilst protecting the beer's organoleptic qualities to preserve a fresh taste and a long shelf-life once packaged. The incorporation of an active prefilter layer, combined with an increased filtration area provides high beer flow rates, greater resistance to blockage and maximized service lifetime.



Poly-Mate X

Parker Poly-Mate X Cartridges incorporate a unique combination of polypropylene melt blown and spunbonded media to provide high surface area, finish-free and non-fiber releasing filtration. All-polypropylene construction with a robust extruded cage design maximizes chemical resistance to acids, bases, salts, and most organic solvents.



PREPOR PP

PREPOR PP filters will also "condition" liquids and can be used to improve the visual clarity and filterability of products to benefit the performance and efficiency of terminal stabilization operations such as final membrane stabilization and pasteurization. The filters have been designed to withstand harsh operating conditions. Their mechanical strength and wide chemical resistance make them suitable for aggressive clean-in-place operations using chemicals and steam.



PREPOR MAX

The unique layered construction of PREPOR MAX provides excellent retention across a wide range of flux rates. One 6" diameter cartridge can handle up to 80m³ / hr flow (60" length). The inside to outside flow allows for a high contaminant holding capacity and a long filter life, which makes the PREPOR MAX an ideal choice for a wide variety of critical process applications. PREPOR MAX cartridges are available in polypropylene in absolute (99.98%) micron ratings from 1 to 50 micron.



MegaBond Absolute

The MegaBond Absolute melt blown filter cartridges offer high dirt-holding capacity and absolute-rated filtration efficiency leading to long service life without contaminant migration. The MegaBond Absolute has a fixed core inner structure of thermally bonded continuous microfine polypropylene fibers. The modified outer layer fixed pore structure maximizes the graded density surface area to enhance dirt-holding capacity.



SPUNFLOW QA

The Spunflow QA range of absolute rated, graded density filter elements are manufactured from thermally bonded microfibres layered onto a central core. The construction consists of numerous, distinctive filter zones with coarser outer layers acting as prefilters for the tighter, absolute rated central zone. This removal profile produces an element possessing high voids volume, giving high flow rates, low pressure loss, high dirt holding capacity and long life. The thermally bonded media also eliminates fibre migration and resists unloading during service. Available in two grades, polypropylene and polyester / nylon, the range offers extremely wide chemical compatibility.



SPUNFLOW QN

Graded density, high porosity Spunflow QN filter elements are manufactured from thermally bonded polypropylene microfibres. Offering high throughputs, low pressure loss, high dirt holding capacity and long on stream life, the bonded fibre construction minimises any possibility of fibre migration and resists particle shedding, even under pulse conditions. Fibre diameter is controlled throughout extrusion, the microfibres are then thermally bonded into a complex filter matrix during filter construction. These interlinked graded density layers offer maximum support and maximum void volume resulting in true depth filtration.



PROCLEAR PP+

PROCLEAR PP+ filters are designed to provide excellent retention and dirt holding capacity in pharmaceutical prefiltration applications. Polypropylene filtration media utilizing optimized depth construction provides excellent retention and dirt holding characteristics, while ensuring broad-spectrum chemical compatibility. Meltblown polypropylene depth filter media offers low extractable levels in comparison to glass fibre or cellulosic materials while maintaining similar retention performance.



FULFO® PARMAX™ RCP

The Fulflo® ParMax™, Series RCP, is a large 6" diameter cartridge designed to flow liquid from inside-to-outside. This design has several advantages. It allows for high flow rate capability within a single cartridge so fewer cartridges are needed compared to traditional 2.5" and 3" diameter designs. It keeps contaminants trapped within the cartridge, so the vessel remains clean. It is available in a NSF/ANSI/CAN 61 certified option suitable for drinking water, in which all materials of construction are FDA listed and acceptable for potable and edible liquid contact according to CFR Title 21.



PEPLYN PLUS

An all polypropylene construction ensures a broad range of chemical compatibility making PEPLYN PLUS cartridges particularly suitable for the filtration of aggressive and viscous chemicals and solvents. They do not suffer from hydrolysis in aggressive solutions which would result in the contamination of the process fluid. Available in a range of absolute retention ratings, PEPLYN PLUS cartridges represent a cost-effective solution to clarify and condition a range of products prior to intermediate storage or further processing.



Semi-automated Bioprocessing System: SciLog® NFF

The SciLog® NFF is a proven platform for use in discovery to production-scale applications including viral filtration, cell harvesting, chromatography column loading, as well as clarification and sterilization. The system automatically monitors, adjusts and documents pressures and flow rate to optimize processing times and maximize filter life and efficiency. Using the onboard sensors and automation we eliminate the need for constant monitoring during production runs.



SciLog® WeighStation™ Family

The SciLog® WeighStation™ family are mobile, single-use bioprocessing container holders integrated with scales for gravimetric fluid handling. Multiple configurations are available to improve process precision while enabling system flexibility. The SciLog® WeighStation™ provides fluid measurement for a wide range of upstream and downstream applications for bioprocessing containers from 5L to 200L, with scale resolution from 0.1 g to 0.01 Kg depending on your application.



Bulk Filtration and Dispense - SciLog FD

At the bulk filtration and dispense stage of a bioprocess huge investment has already been made in the production and purification of your biopharmaceutical and it is here that it is at its most potent and valuable. The SciLog® FD system is designed and built to ensure containment, protecting your operators from exposure and your product from contamination. The hardware and consumables have been designed in tandem to minimize product losses and maximize yield. As the flow path is completely enclosed, the two operations of filtration and dispensing can be performed in areas of lower classification, thereby eliminating the need for vertical laminar flow cabinets.



SciLog Single-Use Inline Dilution (ILD)

Automated inline dilution is a process by which two liquid streams are brought together in a controlled fashion to meet a target concentration. Inline dilution allows for more efficient and flexible process design by blending or diluting multiple buffers to the required concentrations at the point of use, resulting in smaller buffer batch sizes and thus a smaller facility footprint. The SciLog Inline Dilution System can create buffers for downstream processes such as purification, chromatography, and adjustment steps or to dilute media for upstream processing.



SciLog TFF Standard

Parker's years of industry experience in designing and building Tangential Flow Filtration systems have allowed us to streamline the design and build process. This enables Parker to deliver commercial off-the-shelf systems faster than our competitors. Parker has three standard TFF systems capable of feed flow rates of 0.25 L/min to 85 L/min, using either peristaltic or diaphragm feed pumps. By designing our manifolds in tandem with our systems we have minimized hold up volumes to maximize yield. The SciLog TFF is also capable of utilizing any brand of hollow fiber or cassette in a single use or reusable format.



SciLog TFF Configurable

Parker's years of industry experience in designing and building Tangential Flow Filtration (TFF) systems have allowed us to streamline the design and build process while enabling Parker to deliver configured systems with the same lead times as competitor's standard products. Using a modular system design, components can be easily switched to fit process specifications. Each component is independently validated and integrated using standard industry automation practices (S88). SciLog TFF Systems are also available as commercial off-the-shelf systems in standard low flow, medium flow, and high flow formats.



SciLog® Cryobag Filler System

The SciLog Cryobag Filler System is designed to optimize the formulation and filling of cell based products. Using an integrated stir plate and chiller, your cells are kept at your specified temperature while waiting to be dispensed. In addition to providing adequate mixing of your cryopreservation agent of choice. Automated sealing of all the bags is done simultaneously using TPE tubing. This reduces the time it takes to get them off the system and into the freezer, preventing damage being caused by cryopreservation agents.



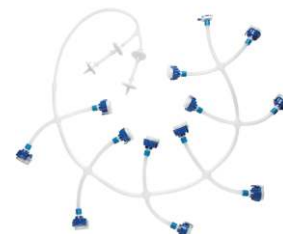
Bioprocess Containers

Single-use liquid handling systems. Customized for your requirements. Variety of bioprocess containers available include: 2D and 3D in a variety of sizes from 1L to 1,000L configurable for your process. A range of ports are available from 1/8" to 1".



Single-Use Molded Silicone Manifolds and Tubing

Customized, overmolded manifolds can be pre-assembled and sterilized. Available with platinum-cured Silicone & TPE, Our overmolding technology allows for any configuration of Ys, Ts, crosses, reducers, elbows and molded tri-clamps with unlimited lengths between molds. Inside diameters are available from 1/8" to 1". Molded silicone manifolds can be created out of mitos-P or mitos-R tubing - see Datasheets under Product Support for more information. Parker domnick hunter's molded manifolds are fully validated and delivered with a certificate of conformance.



Freezing Bottles, PureTain®

Closed system bottle solutions with an open architecture that is perfectly suited for freezing, low-temperature storage, and transportation of sensitive biopharmaceutical products. Drawing on the full potential of Parker's global R&D, production and supply chain footprint, customers can rely on our PureTain® single-use freezing bottles for storage and transportation of their products in the challenging biopharmaceutical application environment. Maximum contamination risk mitigation is achieved by our overmolding technologies, providing a closed-system solution where no opening is possible.



Tubing Manifolds, PureTain®

Custom manifolds for biopharma processing provide secure tube-to-tube connections with an open architecture and a wide range of integration options for peripherals. As an independent system integrator, Parker is able to implement all common single-use pharma components (tubing, vent filters, aseptic connectors, etc.) from approved manufacturers into custom-made PureTain® tubing manifolds. As a result, customers can continue using their internally validated and established brands and products. Parker's proprietary overmolding technology allows us to offer reliable, tailored tube-to-tube connections in a wide variety of combinations. X, Y and T configurations are fully customizable to your specific needs.



Bottle Caps, PureTain®

Customized cap solutions for bottles in biopharma applications provide a fully customizable tube-to-unit interface with innovative fluid management capabilities. Parker provides you with multi-functional PureTain® cap solutions, building on the high design flexibility of our tube-to-container interfaces. Our open architecture approach enables us to integrate exactly the TPE or silicone tubing required in your application. By design, the bottle caps are not limited with regard to the number of lines present in the cap interface or the diameter of tubing. Peripherals such as aseptic ports or vent filters can easily be integrated.



Final Fill Manifolds, PureTain®

Molded single-use filling manifolds for bioprocessing applications exhibit maximum levels of fluid management integrity and accuracy ensuring highest dose control and integrity for final fill applications. Parker's PureTain® single-use filling manifolds ensure an aseptic product transfer and filling process from your bulk tank to the needle. Our overmolding solutions include molded ports, distributors and pump-head manifolds ensuring highest dose control and system integrity. The filling manifold can be equipped with filters, bags, sterile connectors, disconnectors, TPE/silicone filling tubing, and filling needles as well as port solutions to perfectly fit your process.



Aseptic Sampling Systems, PureTain®

Fully customizable small- and large-volume aseptic single-use sampling systems for bioprocessing applications offer perfect protection of the product using a closed system approach and are fine-tuned in their configuration to minimize product loss. Parker offers highly modular PureTain® single-use sampling systems. Our open architecture approach enables us to integrate sampling bags, sampling flasks, syringes, or centrifugation tubes. Furthermore, various connectors such as aseptic connectors, steam-through connectors, or tube welding can be implemented to connect the sampling system to your process, ensuring process sterility and sample representativity.



PETG media bottles, PureTain®

PETG media bottles with closure for storage, transportation, and sampling of actives or intermediates and many other aqueous solutions like media and buffers in biopharmaceutical processes. The square Parker PureTain® PETG media bottles are the ideal solution for pharmaceutical and laboratory applications. They can be used at temperatures down to -80 °C. The bottles are made of a durable polyethylene terephthalate G copolymer (PETG). The raw material meets USP Class VI. They are available as non-sterile or gamma-irradiated versions in various sizes.



Thermoplastic Tubing (TPE), PureTain®

Thermoplastic elastomer (TPE) tubing for cell culture processes and transfer of critical fluids in single-use bioprocess applications. Parker's PureTain® TPE tubing is designed to support the transfer of critical fluids in a wide range of biopharma and bioprocess applications such as cell cultivation, ensuring sterile connections in single-use assemblies and systems. The TPE tubing is heat-sealable and weldable with excellent biocompatibility.



Platinum-Cured Silicone Tubing, PureTain®

Platinum-cured pharma grade silicone tubing for fluid transfer and peristaltic pump applications. Parker's PureTain® platinum-cured pharma grade silicone tubing is designed to meet the highest standards for fluid transfer in both the pharmaceutical and biotech industries. Great flexibility paired with flex cracking resistance provides excellent performance for peristaltic pump applications. The highest-purity translucent tubing is manufactured in clean room ISO class 7 and offers excellent biocompatibility.



SpinBag Mixing System

Parker's 3D SpinBag bioprocess containers are constructed of durable, particle-free, DuraPure C93 film, each containing a platinum-cured silicone coated magnetic spin bar. When placed on a mixing plate, the spin bar rotates to create a vortex of motion for thorough mixing/stirring of fluid contents. Parker SpinBags are available in a variety of sizes and port configurations to easily integrate within your application. For a complete SpinBag Mixing System solution, Parker offers both standard and custom SpinBag designs capable of handling volumes from 5L to 50L. Our range of mixers are easy to operate with digital control panels to adjust speed and set temperature accuracy.



Platinum Cured Silicone, mitos-P Tubing

mitos-P is a non-reinforced platinum-cured silicone tubing with lot and part number etched directly onto the tubing. This tubing is well suited for performance in applications requiring use of peristaltic pumps and / or molded assemblies. This precision tubing is manufactured with an automated control system that repeatedly measures the inner bore and wall thickness, maintaining a 0.002" to 0.008" tolerance.



Platinum Cured Silicone, mitos-R Reinforced Tubing

mitos-R is a platinum-cured silicone hose with polyester fiber braid reinforcement structure to maintain flexibility, withstand high pressure and resist kinking. This hose can be molded with other silicones into manifold assemblies with molded tri-clamp, creating seamless and crevice-free fittings. It can also be used in radially-crimped hose assemblies.



Platinum Cured Silicone, mitos-W Wire Reinforced Hose

mitos-W is a platinum-cured silicone hose with multi-ply fiber braids and 316 stainless steel helical wire reinforcement. mitos-W is ideal for high pressure or vacuum applications.



Platinum Cured Silicone, mitos-WCO Wire and Convoluted Reinforced Hose

mitos-WCO is a platinum-cured silicone hose with multi-ply fiber braids, 316 stainless steel helical wire reinforcement and a convoluted exterior. The convoluted exterior provides excellent bend radius and resistance to kinking.



Bag Assemblies, PureTain®

Parker's PureTain® single-use bag assemblies ensure efficient, closed, and safe fluid handling with a modular design customized to specific process requirements. The bag assemblies can be easily integrated into your process and used in many process steps from lab to commercial scales. Various size ranges are available with accessories, tubing, fittings, and related products.



Bottle Assemblies, PureTain®

Parker's PureTain® container systems for bulk drug substance management provide the highest level of protection for the products. Excellent fluid flow with controlled fluid dynamics, elimination of the risk of leakage and thus contamination is of paramount importance in complex configurations involving multiple containers in filling and draining operations.



Carboy Assemblies, PureTain®

Parker's PureTain® carboy assemblies are custom-designed with configured ports, connectors, vent filters, and tubing to meet your process needs. Tubing can be positioned to ensure careful filling and efficient draining to support UF/DF applications, for example. Various tube types, sizes, and carboy materials are available.



Erlenmeyer Flask Assemblies, PureTain®

Parker's PureTain® single-use Erlenmeyer flasks are available with or without vented caps in various sizes, configurations, and material options. The fully integrated filling and draining options enable closed system configurations eliminating contamination risks. Our open-architecture approach enables us to integrate the specific tubing material and configuration required in your application. The caps are not limited regarding the number of lines present in the cap interface or the tubing diameters. Peripherals such as aseptic connectors and ports as well as vent filters can easily be integrated.



Erlenmeyer Flasks, PureTain®

Parker's PureTain® Erlenmeyer shake flasks are the perfect solution for cell cultivation, media preparation, mixing, and storage. They are available in different sizes (125 ml to 1000 ml) with vented or non-vented HDPE cap. The flask body is made of durable, transparent, and robust PC or PETG material. The integrated scale enables precise media handling.



Freezing Bags, PureTain®

Parker's PureTain® freezing bags ensure protection of product integrity during cryo-preservation and low-temperature storage. The single layer EVA/polyolefin film contains no binders, agents, or adhesives, providing excellent biocompatibility as a product contact material. The EVA film is highly durable with excellent flexibility. Compatible with a large number of cell preservation media such as DMSO/Dextran, the freezing bags are a perfect fit for handling valuable cell and gene therapy intermediates and products.



Isolator Transfer Sets, PureTain®

Maximum levels of integrity and excellent accuracy with respect to fluid management must be achieved during final filling as one of the last process steps on the way to the final product. Parker's PureTain® single-use systems for final filling applications must meet these special requirements to guarantee a contamination-free and precisely dosed final product in a closed environment. Parker's overmolding solutions ensure both maximum protection against contamination by validated and completely closed systems and fully controlled fluid path dynamics due to smooth transitions between tubing and connectors. A unique port design for beta bags and canisters enables seamless tubing transfer of filling lines into an isolator.



PUPSIT Assemblies, PureTain®

Parker's PureTain® PUPSIT (pre-use and post-use integrity testing) filtration assemblies are designed for reliable sterile filtration meeting the special requirements to guarantee a contamination-free and precisely closed final-fill system. The system is designed to include sterile connections, various filters, sampling, and venting bags or bottles ensuring sterility and system integrity.



Sampling Bags, PureTain®

Parker's PureTain® sampling and bioprocess bags meet the exacting standards for media handling operations in a wide variety of biopharma processing applications, from product sampling, media and buffer storage, intermediate product hold to media transportation. The robust, flexible, inert low-density polyethylene fluid contact layer assures consistency in terms of product contact materials across the whole PureTain® bioprocess bag product range. Extensive customization options ensure perfect fit to specific process scenarios.



Sampling Bottles, PureTain®

Parker's PureTain® single-use sampling bottles enable the design of a completely closed system that can be customized to perfectly fit specific applications. The bottles are fully customizable to any silicone and TPE tubing regardless of tubing diameter, tubing length, number of tubes, or brand and are available for a wide range of containers.



MabTec®

The SciLog® MabTec® is a fully automated gravimetric cell culture maintenance system that automatically feeds, harvests, or recirculates in full disposable or hybrid bioreactor flow paths. The MabTec® system has pre-programmed modes for bioreactor maintenance applications that minimize set-up times and eliminates additional bioreactor errors. The MabTec® system has a pre-programmed mode for inoculating, transfecting, and induction when used with a laboratory scale; allowing precise additions without a physical presence, which is optimal for repeated schedules or inconvenient hours.



ChemTec™

The SciLog® ChemTec™ is an automated precision metering pump system that can be used for volumetric or gravimetric control of feed scheduling of bioreactors, chemical metering, pH adjustments, solution weight maintenance and preparative chromatography. ChemTec™ systems are available with peristaltic, piston or magnetic gear pump heads which can provide dispensing accuracy with less than 0.5% error. The ChemTec™ system has automatic documentation and alarm /pump stop settings allowing the user to focus on other tasks while the system is running. Programmable end points ensure the system stops operation when application target endpoints are reached or when run stops command.



FilterTec™

The SciLog FilterTec™ automated laboratory-scale normal flow filtration (NFF) system can optimize filtration parameters, maximize filter throughput and can be used as a filter evaluation tool. The FilterTec™ connects up to three pressure sensors to automatically adjust and document filter back pressure and filtrate to optimize filtration parameters and maximize filter throughput, providing the user the ability to focus on other tasks with a safe, walk-away system operation. The patented R/P Stat Method enables constant rate NFF via a pump PID loop including inline pressure sensors; which increases filter yield up to 30% when a programmed maximum pressure is reached, the system switches to constant pressure mode by reducing the pump speed.



PureTec®

The SciLog® PureTec® is a laboratory-scale tangential flow filtration (TFF) and parameter development system. The PureTec® system is delivered as a complete development system including three pressure sensors, an 8.1 kg balance, a 500 ml vessel with magnetic stirrer and a start-up kit including tubing and fittings. The automatic documentation and alarm / pump stop settings allow the user to focus on other tasks while the system is running. Programmable end points ensure the system stops operating when a user defined concentration or diafiltration is reached.



LabTec®

The SciLog® LabTec® automates, optimizes and documents repetitive liquid dispensing with or without in-line filter sterilization. The LabTec models are ideally suited for dispensing sterile solutions in media kitchens and microbiology laboratories. Also widely used in small production runs to fill your final product into vials, bottles, bags and containers. The automatic documentation and alarm/pump stop settings allow the user to focus on other tasks while the system is running. Remote control and programmable end points ensure the system starts and stops operating when a given dispense is complete or an interlock condition occurs. When used with SciDoc software or a printer, documentation capabilities include 7 real-time parameters.



VitaPump™

The SciLog® VitaPump™ System provides high-precision metering and documentation of vitamin usage for quality control, compliance and inventory. The automated VitaPump™ System with piston head includes the VitaPump™ with analog cable, scale & connection cable, printer (with cable & paper), and Tygon food grade tubing. The VitaPump™ controller and scale combination provides high accuracy metering to avoid over fortification or under fortification and sends documentation to the printer or PC.



ChemTec II

The ChemTec II is our next generation precision metering system which uses high resolution optical motor encoders for volumetric applications as well as connection to a balance for gravimetric applications. Applications range from programmable dispensing strategies, reactor biomass and pH maintenance, Analog control, as well as solution weight maintenance or diafiltration control. The automatic documentation and alarm/pump stop settings allow the user to focus on other tasks while the system is running. Programmable end points ensure the system ceases operation when interlock alarms or application target endpoints are reached. The ChemTec II is available with peristaltic heads.



SciTemp

The SciTemp Sensor monitor is available for use with single-use SciTemp Temperature Sensors. In addition to displaying the outputs for its specific sensor type, each monitor will read and display the unique sensor serial number and factory calibration information recorded on each SciLog Sensor's memory chip. When connected to a PC using SciDoc Software, available separately, real-time documentation of sensor data can be completely automated.



SciPres II Series

Parker SciPres II single-use scalable pressure sensors are designed for compatibility with our SciPres II sensor monitor, next generation laboratory pumps, and SciLog bioprocessing NFF & TFF systems. SciPres II is available in five sizes, pre-calibrated and gamma stable, with calibration and identity information stored on the sensor's chip. Careful monitoring and control of pressure is essential for the efficiency and safety of several units of operation within a biopharmaceutical manufacturing process. SciPres II pressure sensors measure and document pressure in a range of filtration, separation and purification applications.



SciCon II Series

The next generation SciCon II Series combines conductivity and temperature sensing capabilities in a compact, disposable, single-use package. The SciCon II comes in five different sizes to fit a variety of tubing sizes and are pre-programmed with a unique ID for easy traceability and data documentation when combined with SciDoc software. The sensors come pre-calibrated with factory calibration data stored on each sensor's chip for out-of-box plug and play use. The data can be accessed via the SciDoc software, direct to your PC via the SciCon II monitors, or as part of an integrated platform via a DIN card. The SciCon II Sensors are also configured into our bioprocessing systems and next generation laboratory pumps.



SciLog® SciCon®

The SciLog® SciCon combines temperature and conductivity sensing capabilities in a compact, single-use package. Each sensor is pre-programmed with a unique ID for easy traceability and data documentation when combined with the SciLog® SciDoc software. Factory calibration data is also stored on each sensor's chip for out-of-box plug and play use.



SciLog® SciPres®

The SciLog® SciPres combines pressure sensing capabilities and the convenience of disposability with easy set up. Each sensor is pre-programmed with a unique ID for easy traceability and data documentation when combined with the SciLog® SciDoc software. Factory calibration data is also stored on each sensor's chip for out-of-box plug and play use.



SciLog® SciTemp®

Parker domnick hunter's SciTemp® temperature sensors can monitor and control temperature in these critical applications ensuring the validated conditions are met. SciTemp® temperature sensors can also help to prevent protein denaturation due to temperature rises during the process, for example because of shear generated in pumps and across filtration membranes. Parker domnick hunter's range of SciLog® sensors is pre-calibrated and suitable for use in GMP applications, each carrying a unique ID, which stores the ID and calibration information. The sensors can be sterilized by autoclave sterilization.



Village Marine Pure Water Commercial Series

The Village Marine PW Commercial Series Watermaker is designed for rugged conditions, where fresh water supplies are necessary. This desalinator is able to produce up to 3,000 GPD, making it ideal for applications such as commercial and oil and gas.



Sea Recovery Coral Sea Series - Horizontal, or Vertical

The Sea Recovery Coral Sea Series Vertical Watermaker has large, yet efficient production capabilities. Able to produce up to 3,600 GPD (13,627 LPD), a great desalination choice for large yachts and other applications. Durable construction, while combining industrial-strength production, space saving designs, and convenient style configurations – the perfect watermaker for large yachts, as well as commercial fishing vessels, work boats, oil rigs, charter boats, and onshore facilities such as villas, small hotels, and private residences.



Sea Recovery North Sea Series

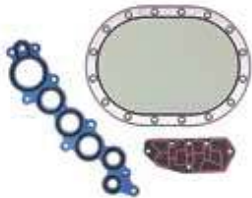
The Sea Recovery North Sea Series Watermaker offers many standard features and customizable options. Able to produce between 19813 GPD – 38305 GPD 75 M3/D – 145 M3/D, this is a great desalinator for various commercial applications.



Engineered Materials Group

Sealing Products & Systems

Composites



Gask-O-Seals

Gask-O-Seals are very reliable elastomer bonded-to-metal or plastic sealing devices intended for applications requiring extreme reliability, longevity, and durability.



Integral Seals

Integral seals are best suited for high-volume OEM or retrofit applications in automotive, industrial, aerospace and military applications.



Bonded Piston Seals

Used in automatic transmission applications, differentials and braking systems.



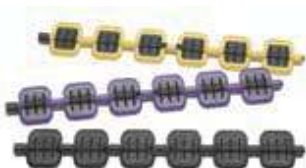
Carrier Gaskets

Our custom designed carrier gaskets are comprised of an elastomeric seal over-molded onto one or both sides of a thermoplastic nylon carrier.



Fastener and Fitting Seals

Fastener and fitting seals provide reliable static sealing for screws, bolts, tube fittings and other fasteners. Available in a wide range of sizes, materials, compounds and surface finishes.



Active Runner Intake Manifold Valves

Commonly referred to as Short Runner Valves (SRV) or Charge Motion Control Valves (CMCV), these assemblies vary the air flow rate into a manifold to maximize fuel efficiency and horsepower in vehicles.

Custom Molded Seals



Custom Molded or Machined Shapes

Our custom molded and machined seals are available in a virtually infinite range of shapes and cross sections.



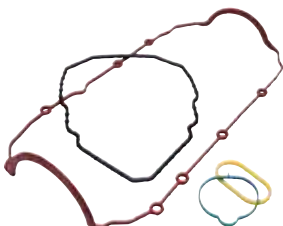
Diaphragms and Directional Valve Seals

Diaphragms and directional valve seals are used in a variety of media types and can be designed for extreme temperature conditions.



Over-Molded Seals and Sub-Assemblies

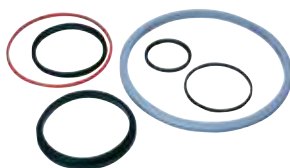
Over-molded seals and sub-assemblies provide a value added design solution, often eliminating components in a finished assembly.



Press-in-Place Seals

Press-in-place seal design technology provides simple seal retention in straight-walled or dove-tail grooves.

Extruded Products



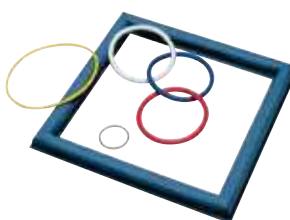
Standard and Custom Lathe-Cuts

Cross-sections such as double chamfers, D-rings, L-gaskets, external U-sections, angle L-seals and short lip seals are available from any of the major polymer families.



ParFab Extruded Profiles

Standard extruded profiles are available in many configurations, such as solid and hollow-O, solid and hollow-D, U-channel, rectangular, solid and hollow square and hollow-dart configuration profiles.



ParFab Spliced / Fabricated Products

ParFab products can be fabricated into low closure force seals, large diameter O-rings, non-standard O-rings and custom profiles. They are an ideal, cost-effective sealing solution for many applications.



Non-Sealing Extruded Products

Non-sealing products include sleeves, bumpers, tubing, pills, grips, rollers and many other configurations extruded from a variety of basic rubber and thermoplastic materials.



Continuous Profiles

Customized continuous profiles for sealing, damping, protecting and to simplify assembly processes. They are produced from elastic materials that are precisely adapted to the respective purpose. Material options are compact elastomers, sponge rubber, thermoplastics and combinations of those materials.

The final product is either cut to length or delivered on rolls, which makes it ideally suited for automated processing. Finishing options are lamination and kiss-cutting.

Metal Seals



Semi-Dynamic Metal Seals

Frequently selected for high-pressure/high-temperature (HPHT) service, dynamic seals excel under extreme environments.



Ultra-High-Temperature Metallic Seals

Parker metal seals are available in advanced nickel-based superalloys, turbine blade alloys, and with optional integral thermal insulation.



Metal Seals and Gaskets

Our resilient metal seals are available in a wide range of base metals and plating finishes. Applications include cryogenic, high vacuum, ultra-low leakage, high radiation and significant thermally induced movements.



Air Duct Seals

Parker's air duct seals for heavy-duty engines feature a single-piece, easy-to-install metal design that provides lower leak rates than seals from traditional competitors. The continuous, single-piece metal seal design is enhanced with the use of TriCom-HT, Parker's proprietary high-temperature, anti-wear coating.

O-Rings



O-Rings

O-rings are available in all AS568 inch sizes as well as a wide range of metric sizes to DIN 3771, ISO 3601 and JIS B2401. Over 1,500 non-standard O-ring sizes are available for special order.

- NBR
- Acetal
- Silicone
- EPDM
- HNBR
- AFLAS
- FKM
- FFKM
- PU
- PTFE



O-Ring Accessories

To assist in the installation of O-ring seals, Parker provides a number of useful items for use in sizing, installing and lubricating O-rings.

- KIT NO: 3 (NBR/FKM)
- KIT NO: 4 (NBR/FKM)
- KIT NO: 5 (NBR/FKM)
- KIT NO: 8 (NBR/FKM)
- FILLED O-RING KIT (NBR/EPDM/FKM)
- O-RING MEASURING CONE/ π -tape

Packings



Rod Seals

The PolyPak line of fluid power rod and piston seals has been the industry standard for over 40 years.



Wipers and Scrapers

Complete line of canned, energized and snap-in rod wipers. Single and double lip snap-in wipers also available.

Piston Seals

Our diverse range of piston seal profiles suit a broad range of hydraulic and pneumatic applications.



ChemCast Piston Seals

Providing flawless sealing at temperatures over 300° F (149° C) and pressures exceeding 50,000 psi.



Urethane Piston Seals

Complete line of urethane single and bi-directional piston seals. Parker's Molythane and Resilon materials are industry known for the highest performance and quality.



PTFE Piston Seals

Complete line of PTFE energized piston seals are offered in various PTFE compounds including bronze, glass and graphite loaded solutions



Wear Rings and Bearings

Offered in a variety of heights, thicknesses and cut, our full line of wear rings and bearing products maximize value for cylinder manufacturers.



V-Packings

Wide range of V-pack solutions from homogenous rubber, fabric reinforced rubber, PTFE, PEEK and other engineered materials.



T-Seals

Elastomer seal elements with nylon or PTFE back-up rings, prevent seals from extruding or rolling in the groove.

PTFE Seals



PTFE FlexiSeals

Utilizing a variety of jacket profiles, PTFE compounds, spring types, and lip configurations, these seals can be designed to meet the requirements of the most demanding seal environments.



PTFE Fluid Power Seals

Including piston seals, rod seals, buffer seal rings, rod wipers, rotary swivel seals and wear rings. Proprietary high-performance compounds are available for especially demanding applications.



PTFE FlexiLip and FlexiCase Rotary Seals

FlexiLip high-speed PTFE lip seals are designed for rotary applications where elastomer lip seals fail, and mechanical seals are too costly.

Rotary Shaft Seals



Rotary Shaft Oil Seals

Complete line of oil seal products including the proprietary Clipper® Oil Seal design, with integrally precision-molded rubber/aramid fiber outer case and elastomeric inner lip. Available in a wide range of configurations.



ProTech Bearing Isolators

ProTech bearing isolators are the ultimate in bearing protection with their unitized, two-piece non-contact design providing zero lubricant leakage and total exclusion of contaminants.



High Speed Shaft Seals

FlexiLip high-speed PTFE lip seals are designed for rotary applications where elastomer lip seals fail, and mechanical seals are too costly. Designed to run in dry and abrasive media environments and available in single, double and triple sealing lip designs.

Fabric Reinforced Products



Fabric Reinforced Products

Parker uses our material expertise to design fabric reinforced products in a wide variety of custom shapes and sizes. The products perform in applications with vibration, shock, and movement with resistance to fuels and solvents.

Specialty Rubber Products



Oil & Gas Elastomer Products

Parker's drilling and well-servicing products span a broad range – including blowout preventers, packing elements, diaphragms, drill pipe/casing protectors, hammer union seals, packer cups, cement plugs, liner wipers, flex plugs, oil saver rubbers, pipe wipers, rod strippers, swab cups, pulsation dampeners, test cups and water saver rubbers.

Medical Component Manufacturing



Liquid Silicone Molding

Parker's Life Sciences Business Unit uses USP Class VI and biomedical-grade liquid silicone rubber materials from key material suppliers for molding elastomeric medical components. Capabilities include:

- Complex geometries
- Small components / Micro-molding
- Semi- and fully-automatic liquid injection molding
- Multi-stream additives, color, self-bleed oil, and others
- Antimicrobial materials



Thermoplastic & TPE Molding

Parker's Life Sciences Business Unit offers medical thermoplastic and thermoplastic elastomer injection molding capabilities, including 2K overmolding. Material selection includes:

- ABS
- Acetal
- Acrylic
- Carbon fiber composites
- EVA
- LCP
- Nylons including glass filled
- PEEK
- Polycarbonate
- Polyetherimide (PEI)
- Polypropylene
- Polystyrene
- PTFE
- PVC
- Thermoplastic elastomers with a wide range of hardness



Medical-Grade Compression Molding

Parker's Life Sciences Business Unit uses tested and certified medical grade elastomers in whiteroom environments to support a wide range of applications.

Applications

- Septums
- Duckbills / directional valves
- Vial stoppers
- Syringe plungers

Materials

- Polyisoprene
- Nitrile
- Fluorocarbon
- Silicone
- EPDM
- Butyl

Medical Device & Instrument Assembly



Silicone Medical Device Assembly

Parker's extensive silicone device assembly, fabrication and packaging is completed at our FDA Registered ISO 13485 certified manufacturing facilities. We contract manufacture the following types of silicone devices in either ISO 7 (Class 10,000) or ISO 8 (Class 100,000) certified clean rooms.

- Cardiovascular catheters
- Endotracheal catheters
- Feeding catheters & devices
- Multi-port urological catheters
- Nasal airways with single & dual balloons
- Orthopedic devices
- Pediatric catheters
- Peritoneal dialysis catheters
- Surgical wound drainage tubes
- Tracheostomy catheters
- Wire-reinforced diagnostic catheters



General Medical Devices

We offer single use devices, non-sterile reusable devices and in-vitro diagnostic assembly, testing, packaging, sterilization and distribution. **Class I, II and III medical devices:**

- Audiology
- Cardiac cath lab
- Cardiology
- Chronic care
- Clinical laboratory
- Critical care
- Dialysis
- Labor and delivery
- Neurology
- Oncology
- Operating room
- Respiratory therapy
- Sleep labs

Medical Grade Silicone Extrusions & Packaging



Single and Multi-Lumen Tubing

Wide range of medical grade single and multi-lumen tubing and extruded profiles.

- Color coded tubing & rods
- Continuous laser monitoring of tubing size during extrusion
- Custom and standard sizes
- Medical grade silicones from all major suppliers
- On-line cutting to length & 50 ft. coils
- Profiled tubing & rods
- Striping and multicolor/multilayer coextrusion
- Wire-reinforced tubing
- X-ray striped & X-ray opaque tubing



Packaging

We assist in all aspects of packaging selection and utilize vendors who deliver quality materials, on time and at reasonable prices. We arrange D.O.T.-approved transit testing for your product as requested, and manage the sterilization process for turnkey product and device support.

Biopharma Production Processes

Single-Use Fluid Management Systems

Parker Prädifa offers custom single-use systems, sealing and fluid handling components for biopharma laboratory and manufacturing applications, supporting customers from product design to finished devices, including regulatory matters.

They considerably mitigate the risk of contamination, allow for integration of pre-validated components and help reduce overall system costs.



Custom Container Solutions

Customizable container solutions using our proprietary overmolding technology include tube-to-container interfaces, tube-to-tube connections, in-container tube management, anti-foam feature, tamper evidence seal, tube fixation and protection caps.



Custom Manifold Systems

Customized manifold systems which implement all common single-use pharma components and mitigate the risk of contamination through excellent fluid path management.



Flex Caps

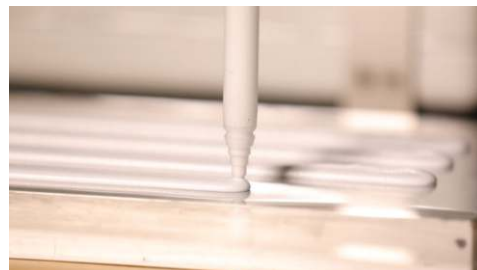
Multi-functional cap solutions provide fully customizable tube-to-unit interfaces with innovative fluid management capabilities. They mitigate the risk of contamination and allow for integration of previously validated components such as tubing.

Parker Lord – APS Products

Gap fillers

Features

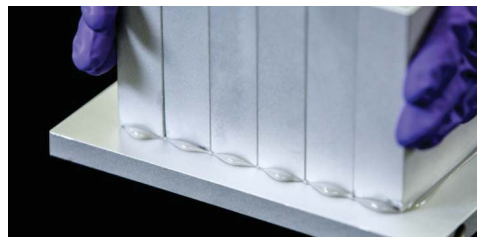
Our liquid-dispense, cure-in-place gap fillers combine high thermal conductivity and low viscosity to dissipate heat from high powered electric vehicle components.



Thermally conductive adhesives

Features

Whether you need structural integrity or an improved thermal connection, these adhesives allow design flexibility and the ability to bond a variety of substrates. Our adhesives couple high-bond strength with thermal conductivity for ease of use and cost-savings.



Potting & Encapsulants

Features

CoolTherm® potting and encapsulants improve performance by optimizing heat dissipation with high thermal conductivity and low viscosity.



Structural Adhesive

Features

With the ability to bond to a variety of substrates including bare metal, painted metal, composite, rubber-to-substrate, and more, these adhesives are suitable for a variety of applications.



JMC Dielectric Coatings

Features

JMC Coating is a thermal-cure epoxy resin specially designed for thin film coating of heat sinks and magnets and provides electrical insulation.



Low Density PU Foams

Features

These foams are low density, low viscosity two-component encapsulant systems. We currently offer foams in silicone and urethane chemistries, specifically formulated for the electric vehicle market.



Parker Lord – EPM Products

Chemlok® Adhesives

Features

Rubber-to-metal and rubber-to-substrate bonding adhesives stand up to any challenge across any industry, in any application delivering reliable value to your business.



Chemlok® Cold-Bond Adhesives

Features

Save money and work safer with cold-bond adhesives that bond vulcanized rubber-to-metal and rubber-to-rubber at ambient temperatures.



Silicone Primers and Adhesives

Features

High-performance peroxide- and platinum-cured silicone adhesives with proven performance in a variety of industries including automotive, aerospace, industrial and electronics.



Sipiol® Weatherstrip Coatings

Features

Improve automotive sealing durability and performance for primary and secondary doors, trunks, hoods and sunroofs. Our coatings offer high abrasion resistance, ultraviolet stability and noise reduction.



Flocklok® Flock Adhesives

Features

Flock adhesives form a dependable barrier against the elements to adhere polyester or nylon flock fibers to automotive sealings.



LokRelease™ Mold Release

Features

Mold release agent designed for use with molded elastomers. LokRelease™ provides a semi-permanent, anti-stick surface coating for fast, easy part removal from molds.



LokRelease™ Chemical Cleaning Solution

Features

Eliminate the need for risky and unsafe cleaning procedures when removing dried-on adhesives from mixing equipment and fixtures.



Sipiol® UV Cure Dielectric Coating

Features

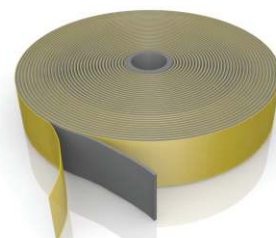
Sipiol UV is a UV-cured, VOC-Free, 100% solids, dielectric coating that cures in seconds that has superior adhesion to metals and plastics.



Primers for Double-Sided Tape

Features

Parker LORD primers are formulated to strengthen the bond between the adhesive and the double-sided tape by increasing surface tension, resulting in a strong mechanical bond, apply easily by spray, brush, dip or wipe methods. It provides excellent water-resistant properties.



Parker Lord – NVH Products

Elastomeric Mounts & Bushings

Features

The adverse effects of vibration, shock and noise disturbances range from simple annoyances to shortened equipment life. Our customizable application of LORD Elastomeric Anti Vibration Mounts and Bushings provide simple, reliable, and cost-effective solutions to accommodate motion and decrease vibration and noise.



Fluidlastic™ Cab Mounts

Features

LORD Fluidlastic Cab Mounts combine elastomeric and viscous fluid damping technology to reduce cab noise and vibration levels measurably better than conventional rubber mounts.



Advanced Suspension Systems

Features

Unlike passive suspension systems, LORD Advanced Suspension Systems use patented Magneto-Rheological (MR) Technology to control and optimize vehicle suspension stability in real time. Our products provide superior vibration isolation with greatly enhanced shock control.



Tactile Feedback Device

Features

Our TFD Steering Unit (for SbW systems) uses our patented Magneto-Rheological (MR) technology to provide a continuously variable resistive steering torque in all-electric or electro-hydraulic steering systems. TFD Steering Units deliver high-fidelity steering “feel” and maximum control to the operator, and can be customized to your steering preference.



Drivetrain Couplings

Features

Elastomeric Damping for Torsional Loading. Suppresses torsional vibration and spikes. Extends the life of power and drivetrain components, Allows for slip to prevent failures of mating components, such as flywheels and driveshafts.



Chomerics

Thermal Interface Materials

THERM-A GAP™

- Pre-Cured, 1-Part, Dispensable Gap Fillers and
- Gap Pads



THERMFLOW™ Phase Change TIM Pads

CHOTHERM® Elect. Ins. Thermal Pads

THERMAL Greases

THERMATTACH® Adhesives Tapes

THERM-A-FORM™ Underfill and Potting

EMI Shielding Materials 1

Elastomer Extrusions



Sheet Stock and Die-cut Gaskets



Molded Parts



FIP Gaskets



Soft Shield 3500



Soft Shield 4850



Spring-Line



Foil/ Fabric Tapes



EMI Shielding Materials 2

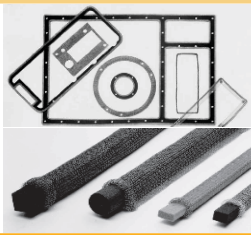
Transparent ITO Films



All Metal Gasket



Mesh over Elastomer Gasket



Wire Impregnated in Elastomer



Soft Shield 3500



Adhesives



Sealants



Instrumentation Group

Process Control in Oil & Gas, Power Generation Flow Hookups and Measurement

Tube & Fittings



A-Lok® Tube Fittings

A-Lok® double ferrule fittings used in instrumentation applications where high-quality, leak-free joints required.

CPI™ Tube Fittings

Known for positive, leak-free sealing, CPI™ single ferrule tube fittings meet stringent demands of process control, power and instrumentation systems.

Available in many sizes, configurations in variety of materials with heat code traceability.



Parker Tubes

- Parker tubing offers the high surface smoothness and close dimensional tolerances needed to ensure there are no leakages when connected with Parker fittings.
- 100% Eddy Current and Hydrostatic tested
- Superior OD Finish and Close tolerances
- Strict control on ovality, concentricity and hardness
- High cleanliness of Tubing Inside
- Protection of tube ends and ID from environments contamination
- From 1/4" till 1" OD availability

Valves & Manifolds



2 Valve Manifolds

Comprehensive range for interface with pressure gauges, transmitters and switches



Flow Manifolds

3, 5 Valve Manifolds in variety of configuration for interface with differential pressure transmitters



Check Valves and Filters

Parker check valves provide unidirectional control of liquids and gases available in numerous sizes and a variety of inch/metric port connections, including CPI™ and A-Lok® compression. Parker in-line and T-type filters are designed as secondary filters for protection of small instrumentation lines and components against contamination.

Proportional Relief Valves

Parker offers proportional relief valves with externally adjustable pressure settings. Optional manual override permits relief of pressure regardless of the set point.



Ball Valves

Parker manual, pneumatically actuated, and electrically actuated ball valves control fluids in process, power, metering and instrumentation applications. Miniature, high pressure and swing-out ball valves available in various sizes.



DBB & Flanged Products

Complete range of double block, bleed firesafe and fugitive emission manifolds and conversion connectors



Parker Diaphragm Valve

- Vericlean™, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance.
- Internally threadless and springless
- Fully functional from vacuum to 3500 psig
- 100% Helium leak tested
- Standard full internal electropolish



Regulators, Valves

- Internally threadless design reduces particle generation.
- Low internal volume reduces purge times.
- Fully functional from vacuum to 4000 psig
- 100% Helium leak tested
- Standard full internal electropolish
- Cleaned for O2 service is standard

Autoclaves



Autoclave Valves, Fittings & Tubings - High Pressure

Needle Valves/Ball Valves/
Relief Valves
Valve Actuator
Fittings and Tubing
Adaptors / Couplings
Pressure upto 1,50,000 p.s.i.



Hand & Needle Valves

Needle, multi port, gauge, rising plug, O.S & Y, high pressure and cryogenic valves. Upto 10000 psi pressure rating. Available in variety of materials & sizes.

Change Over System



- Internally threadless design reduces particle generation.
- Low internal volume reduces purge times.
- Fully functional from vacuum to 4000 psig
- 100% Helium leak tested
- Standard full internal electropolish
- Cleaned for O2 service is standard

Parker Vent Master



- Helps customers achieve sample disposal environmental compliance and maintain a **stable analyzer reference pressure**
- Senses Vent Header pressure
- Compensates for varying flow from multiple analyzers
- Isolates Flare Header pressure fluctuations

Parker Gen II R-Max™ Stream Switching System



The Parker Gen II R-max™ is a multi-functional system capable of integrating both stream switching and filtering into one unique compact assembly. The system was engineered with a focus on improved product reliability and reduced cost of ownership. The Parker Gen II R-max™ Stream Switching System utilizes state-of-the-art surface mount technology to reduce leak paths, internal volume, and dead volume. With surface mounting, system components may be easily removed and replaced without breaking process connections.

Natural Gas Dispensing

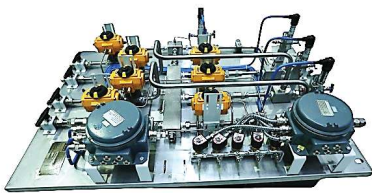
CNG Dispenser



These are designed to direct the flow of CNG in line with banking system with reference to Low / medium & high bank sequence operation.

- Parker make CNG Dispensers are Safe, Reliable & Rugged with ease of maintenance & operation
- Product offering : 3 Bank 2 Fill / 2 Bank 2 Fill / 1 Bank 2 Fill - Car Dispenser
1 Bank 1 Fill / 3 Bank 1 Fill - Bus Dispenser
3 Bank 2 Fill & 1 Bank 2 Fill - Car Cum Bus Dispenser
3 Bank 4 Fill - Four Arm Car Dispenser & Customised option available requirement.
- More than 7500+ CNG dispensers working satisfactorily all across India, & globally.
- Authorized Service Partners available 24 X 7 for Dispenser maintenance across India.

Priority Panels



These are designed to direct the flow of CNG from compressor to Cascade / Dispenser & LCV as per requirement.

- Parker make CNG Priority Panels are Safe, Reliable & Rugged with ease of maintenance & operation. Parker components provides unmatched reliability and helps customer for one stop solution.
- Product offering : Configuration available from 3 Bank to 9 Bank as per the customer requirement with 1/2", 3/4" & 1" Tube Size.
- More than **1500+ CNG Priority** Panels working satisfactorily all over India.

Calibration Kit/ Prover Meter



- Prover meter kits which are approved by NABL accredited Lab FCRI for Inspection & Testing of dispensers. Check batch accuracy upto +_1.5%
- All spares except MFM are in house Parker Components
- Bus / Car

Actuator Ball Valve Assembly



These are Pneumatic / Electric controlled actuators used for opening & closing of Ball Valves which are used in CNG Dispensers / Priority Panels & Spares required at CNG Station /Analyser OEM's.

- Product offering : Configuration available for all sizes.
- Customisation available.

Accessories



Pipe Fittings

Highest integrity, corrosion resistant precision tube fittings, proven in the most arduous applications. Silver plated ferrule option for superlative safety levels in critical gas applications.

- A-LOK® twin ferrule
- Instrument Pipe fittings
- CPI™ single ferrule
- Dielectric fittings



Refueling Nozzles

NGV1 / ANSI standard, keyed refueling nozzles for public or private use

- Type 1 patented interlock, push to connect, design.
- Type 2 push connect or sleeve operated, with fill/vent valve.
- Type 3 push connect or sleeve operated.



Filters

Compact high efficiency oil and water condensate and particulate filtration, for high volume refuelling or onboard vehicle applications.



Pressure Regulators

Veriflo high performance Pressure Regulators for accurate control of high and low pressure applications.



Refueling Receptables

NGV1 / ANSI standard, keyed and pressure-actuated to prevent back flow and over pressurisation.

- Bulkhead designs for rigid mounting.
- Integral filter element option.



Hoses

High strength. Abrasion and weather resistant, conductive polymer core hose for high pressure fill and vent duties.

- Refueling
- Vent recovery



Couplings - Breakaway

Shuts off gas flow in the event of accidental disconnection of the Break-Away harness on CNG dispensers.

Fluid and Climate Control

Parker and Parker Sporlan Refrigeration & Air - conditioning - Commercial



Expansion Valves

Thermostatic expansion valves, block valves, automatic expansion valves. Constant pressure valves. Electronic expansion valves with stepper motor.



Solenoid Valved - Refrigeration

Are pilot operated, 2 way normally closed valves for liquid, suction and discharge gas lines. It is used with all kinds of Freon refrigerant excluding ammonia.



System Protectors

Filter dryers, accumulators, and receivers. Brass shut-off valves. Sight glass / moisture indicators. Mufflers. Replaceable core dryers. Water regulating valves. Automotive and commercial applications.

Refrigeration & Air - Conditioning - Industrial



Refrigeration Specialty

Pressure regulators. Refrigerant float switches. Automatic flow regulators. Solenoid valves. Gas powered suction stop valves. Check valves. Safety relief valves. Hand valves. Service valves.



Herl

Product line includes hand shutoff valves, stop valves, ball valves, Globe valves, Overflow valves of various sizes from 1/4" to 8" for both ammonia and halocarbon refrigerants

Industrial Equipment



Products Solutions

- 2 way and 3 way direct-, pilot-operated or magnafit solenoid valves for application valves for applications with compressed air
- Special design solenoid valves designed with the capability of providing long life expectancy and response times of a few milliseconds
- New generation of compact low power EPP4 pneumatic pressure regulators with voltage or current control

Process Market



Products Solutions

- Solenoid valves manufactured from
- aluminum, brass or 316 L stainless
- steel with 1/8" to 3/4" post connection
- functioning in ambient temperature
- ranges from -40°C (-40°F) to
- +60°C (140°F)
- Large range of solenoid valves with
- manual reset function for offshore
- application
- EExPress pneumatic valve islands
- with Profi bus DPTM bus for
- applications in Ex zones
- Wide range of solenoid valves with 1/4"
- and 1/2" Namur interface (BSP or NPT)
- controlling flow rates up to 3000 l/min - 800
- USA GPM 660 UK GPM

General purpose – Air, Water, Steam and gas applications



- Compact 2-way and 3-way miniature solenoid valves, ON/OFF and proportional with brass, stainless steel or PTFE body for water, steam, air, liquid and aggressive gas applications.
- Compact solenoid valves designed for optimising internal dead space.
- Isolation solenoid valves with fluid separation membrane.
- Various seal materials according to customers' applications (FKM, NBR, EPDM and PTFE).

Oil and Gas burners



Products solutions

2 way solenoid valves with 1/8" to 1/2" port connections or flange mounted Safety solenoid valves for controlling the supply of diesel oil in the injection line and closing the circuit between storage tank and burner
Various sealing techniques satisfying the most stringent technology requirements (ruby FKM)
UL and TUV Germany certification - DIN CERTCO, according to standards EN 204 and EN161

Beverage Dispensing



Markets

Professional coffee and vending machines.

Applications

Water and steam ON-OFF control, volume flow control for the preparation of various beverages, boiler pressure control.

Advantages

- More than 40 years' experience with ruby seals, a key technology guaranteeing tightness and resistance to limescale.
- Reduced maintenance and long life time of solenoid valves.
- A wide range of solenoid valves complying to food compatibility standards such as UL sanitation, NSF, WRAS, ENEC

Products solutions

- 2-way and 3-way solenoid valves, ON/OFF, proportional or PWM (Pulse Width Modulated) for the management of all fluids in the transportation sector (air, water, glycol, petrol, diesel oil, biodiesel, oil, urea).
- Piped, flanged or cartridge mounted solutions.
- Customised systems including solenoid valves, sensors, filters and taps

Commercial Equipment



Markets

Machine, equipment and systems manufacturing activities for use in establishments which provide services for public, business, government as well as private individuals.

Applications

Car washing equipment, laundry equipment, plumbing, spraying systems, humidifiers, controls for water level, steam and vacuum.

Advantages

- A wide selection of solenoid valves and solutions adapted to management of the most common fluids.
- Unrivalled product availability thanks to a worldwide network of distributors.
- Exclusive diaphragm design to achieve high flow capacity (only on 7321B/7322B water valves).

Products solutions

- 2-way and 3-way direct-, pilotoperated or magnalift solenoid valves for applications with air, water, hot water, steam and light oils.
- Solenoid valves rated for water up to pressures of 100 bar - 1500 psi - and tested over millions of cycles.
- Various materials (brass, stainless steel, NBR, FKM, PTFE, EPDM) intended for a wide range of applications

Transportation



Markets

Vehicles intended for transportation (on/off-road), construction or agriculture. Additionally, systems for rail, aerospace, marine and stationary engines.

Applications

Embedded on-off control of fuel, relay control for gearbox, EGR function (Exhaust Gas Recirculation) according to anti-pollution standards, cabin heating and engine preheating, engine braking, exhaust braking, SCR function (Selective Catalytic Reduction), tilting systems on Pendolino trains, pneumatic braking for railways, cooling fan pneumatic control, DOC function (Diesel Oxidation Catalyst), balancing of ship tanks.

Advantages

- Solenoid valves and electrical components customised according to the technical specifications of transport industry customers (vibrations, shocks, temperatures, long life cycle, corrosion, IP protection degrees, electromagnetic compatibility...).
- Solutions adapted to international anti-pollution standards Euro 4 & 5/US07/J07.
- Compact systems for the railway industry.

Products solutions

- 2-way and 3-way solenoid valves, ON/OFF, proportional or PWM (Pulse Width Modulated) for the management of all fluids in the transportation sector (air, water, glycol, petrol, diesel oil, biodiesel, oil, urea).
- Piped, flanged or cartridge mounted solutions.
- Customised systems including solenoid valves, sensors, filters and taps.

Process Control Valves



Sinclair Collins Valves High Pressure

Available in 2-way normally open or normally-closed, and 3-way types pressure classes - 4000 psi. These valves are available in 1/2" through 3" sizes.



Sinclair Collins Valves Low Pressure

Line mounted 2- and 3-way, normally-open and normally-closed valves are available. Provide a pressure range up to 500 psi (34 bar) and are designed to handle temperatures ranging from -40°F to 450°F (-40° to 232°C). Also available are shaping modules and control valve combination for Tyre presses.



Series PA - 2/2 - Way Angle Body Valves Valve Features

- Compound design, high flow rates
- Visual position indicator standard
- For temperature from 14°F to 356°F / -10°C to 180°C
- Working pressure up to 16 bar, 232 psi
- Dampened closing anti-water hammer design (fluid under seat)
- Metal actuator housing for exceptional durability in steam & mildly aggressive applications
- Valves satisfy the Pressure Equipment Directive 97/23/EC
- Mountable in any position
- Tight shut-off and long Service life
- Valve seats and body gaskets fully repairable

Parker Meggitt

Sensors and conditioners

TQ9xx, EA90x and IQS90x proximity measurement system

The TQ9xx proximity sensors, EA90x extension cable and IQS9xx signal conditioner form a proximity measurement system. This proximity measurement system allows contactless measurement of relative vibration, position and other measurements in harsh environments.

Features

- Available in standard versions and in Ex versions certified internationally for use in hazardous areas.
- Broad family of sensors with different measurement ranges (sensitivities), mounting options standard, reverse or right-angle and pressure capabilities (up to 100 bar)
- Suitable for safety-related applications such as IEC 61508 SIL 2 or ISO 13849 Cat 1, PL c certified measurement chains, and conforms to API 670 5th edition

Product Specification

- Measurement range: from 2 to 4 mm
- Pressure range: up to 100 bar
- Temperature range: -40 to 180°C (for sensors),
-40 to 200°C (for cabling), -40 to 85°C for signal conditioner



CA202 piezoelectric- based accelerometer

The CA202 sensor are high-temperature, piezoelectric-based accelerometers designed for the long-term measurement and monitoring of absolute vibration in the most severe of environments (up to 700°C) such as heavy-duty gas turbines and steam turbines. An external charge amplifier (IPC707 signal conditioner), is required to convert this charge-based signal into a current or a voltage signal.

Features

- Available with an integral soft-line cable with a flexible stainless steel hose
- Available in standard versions and Ex versions certified for use in potentially explosive atmospheres

Product Specification

- Sensitivity: 100 pC/g
- Measurement range: up to 400 g
- Temperature range: -55 to 260°C
- Frequency response: 0.5 to 6000 Hz



CE620 piezoelectric-based accelerometer

The CE series of sensors are piezoelectric-based accelerometers that come with either attached electronics for higher temperature applications (up to 350°C) or integrated electronics for lower temperature applications (up to 120°C).

Features

- Designed for general-purpose vibration measurement, typically balance of plant (BOP) machinery such as compressors, gearboxes, motors, pumps and fans
- Industry standard IEPE (integrated electronics piezo electric) vibration sensor so installation is easier (no external signal conditioners and simpler cabling)
- Available as a sensor only or with an integral cable
- Available in standard versions and Ex versions certified for use in hazardous areas



Product Specification

- Voltage output signal: 100 or 500 mV/g
- Measurement range: up to 400 g
- Temperature range: -55 to 120°C (for 100 mV/g versions) or -55 to 90°C (for 500 mV/g versions)
- Frequency response: 0.5 to 14000 Hz (for 100 mV/g versions) or 0.2 to 3700 Hz (for 500 mV/g versions)

LS12x and ILS73x air gap measurement system

The LS series of air gap sensors are designed for the contactless measurement of the air-gap between rotor and stator in hydroelectric generators, large alternators and motors. The air-gap measurement system consists of a LS12x air-gap sensor with an integral cable and an ILS73x signal conditioner.

Features

- Available with cable lengths of 5 or 10 m
- Accurate and precise results over the full measurement and temperature ranges
- Enhanced filtering of noise and spikes induced by high excitation currents

Product Specification

- Measurement range: up to 60mm
- Temperature range: -15 to 125°C (for LS12x air gap sensors) and -25 to 70°C (for ILS73x signal conditioner)



Protection and monitoring systems

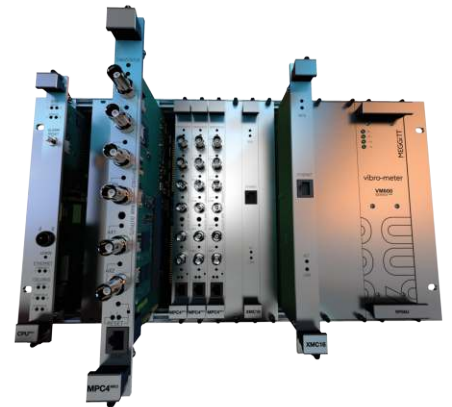
VM600^{Mk2}

Centralised machinery protection and condition monitoring system

The VM600 Mk2 is the next generation rack-based system for advanced machinery protection and condition monitoring, specially designed for critical rotating machinery. Typically used for larger gas and steam turbines and plants often including a larger quantity of balance-of plant equipment.

Features

- Integrated - Machinery protection and condition monitoring from one set of modules.
- Modular design - Modularity and function combinations enable advanced systems to be built with a minimal number of modules.
- Easy configuration - Simple to configure and operate using the VibroSight software.
- SIL 2 in accordance with IEC 61508
- API 670 5th edition machinery protection compliant
- Cybersecure in accordance with IEC 62443 (formerly ISA 99).



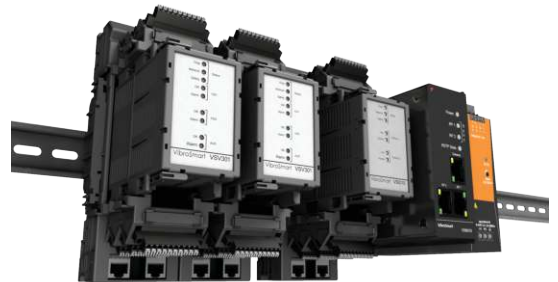
VibroSmart

Distributed machinery protection and condition monitoring system

VibroSmart is a family of networkable devices developed to implement a machinery protection system (MPS) and/or condition-monitoring system (CMS) solutions with a low-to-medium measurement channel density that can be installed wherever they are required.

Features

- Reduced installation costs – As VibroSmart devices are mounted directly on, or near, the machine, operators save on installation and wiring costs by up to 30%. The use of standard Ethernet cables helps simplify installation.
- Versatile solution – The VibroSmart VSV301 can process most types of signal – vibration, displacement and dynamic pressure. It can be configured to offer unique combinations of MPS and/or CMS functionality.
- As simple or as elaborate as you need – VibroSmart's modular structure is highly flexible and scalable. A single VibroSmart VSV301 can function as a stand-alone system or it can be combined with other VibroSmart devices to offer a networked monitoring system.



VibroSight

Condition monitoring and machinery protection software

VibroSight is the advanced machinery protection and condition monitoring system software designed for operation with VM600 Mk2 rack-based systems and VibroSmart distributed monitoring systems for a wide range of applications within the power generation, oil & gas, and process industries. VibroSight is fast and powerful, user-friendly software that enables the reliability and operational efficiency of industrial machinery to be optimised through the use of advanced predictive-maintenance methodologies.

Features

- Allows cost-effective monitoring of more of your assets, across more plants, with no compromise on performance
- Priced by channel so assets with lower channel-counts can be monitored for less investment
- Easily scalable due to modular design
 - From a standalone system for machinery protection (MPS) to a complete condition monitoring (CMS) solution
 - Better asset management decisions through advanced prognostics
- Real-time networking features for critical assets
- Condition monitoring with VibroSight supports efficient predictive maintenance



**Scan the QR code to visit
our online catalogue**

Parker Hannifin Training Center: Empowering Innovation and Excellence

The Parker Hannifin Training Center is a state-of-the-art facility equipped with modern classrooms, hands-on labs, and advanced simulation tools. It is designed to provide a conducive learning environment where theoretical knowledge meets practical application. The center offers a wide range of courses tailored to different levels of expertise, from introductory sessions for new employees to advanced technical training for seasoned professionals.

The training center boasts a team of highly experienced instructors who are experts in their respective fields. These professionals bring a wealth of knowledge and real-world experience, providing invaluable insights and mentorship to

participants. Their expertise ensures that the training is up-to-date with the latest industry trends and technological advancements.

The Parker Hannifin Training Center is a testament to the company's commitment to excellence and innovation. By providing high-quality education and training, Parker Hannifin ensures that its workforce, partners, and customers are well-equipped to meet the challenges of today's dynamic industrial landscape. The center not only enhances individual capabilities but also contributes to the overall growth and success of the industries it serves.



PARKER TECHNOLOGIES



Parker Hannifin India Pvt. Ltd.

MANUFACTURING LOCATIONS



NAVI MUMBAI

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Domestic Tari_ Area,
Anjur Village,
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NASHIK

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