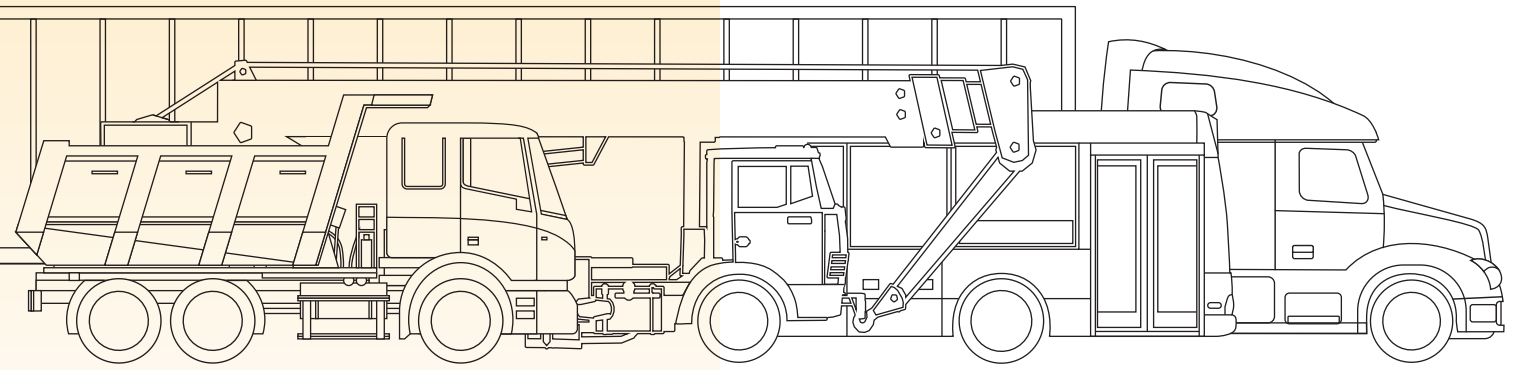
Link to Master Table of Contents

Link to Section Table of Contents

Standards & Approvals, Alphanumeric Index



ENGINEERING YOUR SUCCESS.

Table of Contents

Performance Standards and Specifications P3

Applicable Standards and Specifications for Hose Products P5

Applicable Standards for Industrial Hose Products, by Standard Number P6

Applicable Standards for Parflex Products P6

Applicable Standards for Tube Fittings Products, by Standard Number P7

Thread Designations and Document Standards for Threads Used in Fluid Connectors P8

Document Sources for Connector Specifications P9

Alphanumeric Index P11

End Fitting Size Chart P19

Offer of Sale P20

Performance Standards and Specifications

Hose	SAE J517	SAE Other	DOT FMVSS 106	USCG MTH (1)	ISO	DNV (2)	EN	MSHA (3)	German Lloyd	ABS	UL-21 LPG	BV	Other
AX		J1942		H				X					
BXX		J1942		H				X					
F42													
JK	100R2AT				ISO 1436-1 Type 2SN		EN 853 Type 2 SN	X					1J100, NFPA 1936
MX	100R1AT	J1942		H				X					
P35	100R13	J1942		HF	ISO 3862-1 Type R13	X	EN 853 Type R13	X		X		X	
SS23CG											X		CAN/CGA-8.1-M86 Type III, ECE 110 Class 1
SS25UL											X		AGA - AS/NZS 1869D
201	100R5	J1402 AII	AII										
206	100R5	J1402 AII	AII										
213		J1402 AI	AI										
221FR (4)		J1527 R3, J1942, USCG A1		H, HF	ISO 7840			X	X	X			ABYC
244		J2064 Type B											
266		J1402 AII	AII										
285		J2064 Type C											
293		J1402 AI	AII										
301LT		J1942		HF		X				X			
302	100R2AT	J1942		HF	ISO 1436-1 Type 2SN	X	EN 853 Type 2 SN			X		X	
304													
351ST	100R19							X					
351TC	100R19							X					
422	100R1AT	J1942		HF	ISO 1436-1 Type 1SN	X	EN 853 Type 1SN			X			
424													
426	100R1AT	J1942		HF				X		X			
431		J1942		H				X					
436		J1942		HF				X		X			
451ST	100R17							X					
451TC	100R17	J1942		HF				X		X			
471ST					ISO 11237-1 Type 2SC		EN857 Type 2SC	X					
471TC		J1942		HF	ISO 11237-1 Type 2SC	X	EN857 Type 2SC	X		X		X	
472LT							EN857 Type 2SC						
472TC		J1942		HF	ISO 11237-1 Type 2SC	X	EN857 Type 2SC	X		X			
482ST	100R1AT				ISO 1436-1 Type 1SN		EN853 Type 1SN	X					
601	100R3	J1942		H	ISO 4079 Type R3		EN854-Type R3	X					

Continued

KEY TO UNDERSTANDING AGENCY APPROVALS FOR BUILDING HOSE ASSEMBLIES

ABS Approved assemblies can be manufactured at any location with Parker's permission. No restrictions.

DNV Approved assemblies can only be manufactured in a Parker approved location that demonstrates a quality system and management program is in place and must be audited by DNV. Each location must be granted a "license" issued by Parker HPD for building hose assemblies. Three exist today; Davenport Iowa, Grimsby Canada, and Yangsan Korea.

BV Approved assemblies can only be produced in a BV approved location that demonstrates a quality system and management program is in place. Each location must have an initial audit performed by BV before the "license" can be issued. Additionally, ongoing audits setup by BV will be required at each approved location. Davenport Iowa is our only approved assembler.

UL "Listed" Assemblies must be made at Davenport Iowa

CSA/CGA Assemblies must be made at Davenport Iowa

Performance Standards and Specifications (Continued)

Hose	SAE J517	SAE Other	DOT FMVSS 106	USCG MTH (1)	ISO	DNV (2)	EN	MSHA (3)	German Lloyd	ABS	UL-21 LPG	BV	Other
611HT	100R6						EN854	X					
701		J1942		H, HF	ISO 3862-1 Type 4SP		EN856-Type 4SP			X			
711		J1942		HF		X		X		X			
721	100R12				ISO 3862-1 Type R12		EN856-Type R12	X					
721ST	100R12				ISO 3862		EN856	X					
721TC	100R12	J1942		HF	ISO 3862-1 Type R12	X	EN856-Type R12	X		X			
722TC		J1942		HF		X		X		X			
731		J1942		HF		X	EN856-Type 4SH			X			
761								X					
772LT													
772ST	100R12				ISO 3862-1 Type R12		EN856-Type R12	X					
772TC	100R12	J1942		HF	ISO 3862-1 Type R12	X	EN856-Type R12	X		X			
774													
781	100R13	J1942		HF	ISO 3862-1 Type R13	X	EN856-Type R13	X		X			
782ST	100R13				ISO 3862-1 Type R13		EN856-Type R13	X					
782TC	100R13	J1942		HF	ISO 3862-1 Type R13	X	EN856-Type R13	X		X		X	
787TC		J1754, J1942		HF	ISO18752-DC	X		X		X			
791TC	100R15	J1942		HF	ISO 3862-1 Type R15	X		X		X			
792ST	100R15				ISO 3862-1 Type R15			X					
792TC	100R15	J1942		HF	ISO 3862-1 Type R15	X		X		X			
797TC		J1754, J1942		HF	ISO18752-DC	X		X		X			
801								X					
804													
811HT with 81		J1942		HF									
821													
821FR													
836								X					
881		J1942		H, HF				X					

Notes:

(1) U.S.C.G./MTH (Marine Technical & Hazardous Materials Branch) hoses, hose assemblies and appropriate fittings meet 46CFR56.60-25(c) for use on commercial vessels. Hoses and hose assemblies meet the requirements of SAE J1942. Hose fittings meet the requirements of SAE J1475.

F = Fuel and lube systems.

H = Hydraulic Systems.

*Some hoses are accepted for different pressures for F and H. Also, not all sizes are accepted for all applications. See HPD approval bulletin #APR-004 or consult the Parker Hose Products Division, Technical Services Department, for details. The Canadian Coast Guard accepts all hoses accepted by the U.S. Coast Guard.

(2) Det Norske Veritas (DnV) approvals are with permanent (crimp) type fittings only. See HPD Approval Bulletin #APR-006 or consult the Parker Hose Products Division, Technical Services Department, for details.

(3) Hose with MSHA (Mine Safety and Health Administration) approved flame resistant cover will be marked accordingly on the layline.

(4) 221FR is type accepted by Lloyd's Register. It meets the requirements of the American Boat and Yacht council. 221FR is certified to meet the EC Directive 94/25/EC in accordance with ISO 7840.

For questions on standards and specifications please contact www.parker.com.

Applicable Standards and Specifications for Hose Products

Many products listed in this catalog meet SAE, JIC, JIS, MSHA, Coast Guard, UL, and DOT Standards listed in this section. For standards not covered in this listing, consult www.parker.com.

Standard	Parker Part Number	Description
SAE Standards – Hose Fittings		
J516		All hose fittings used with hoses listed under SAE J517 standard.
SAE Standards – Adapters		
J512, 010102	0104	45° Flare/Pipe
J512, 010103	0204	45° Flare/Pipe
J512, 010202	2104	45° Flare/Pipe
J512, 010203	2204	45° Flare/Pipe
J512, 010101	0404	45° Flare/45° Flare
J512, 040105	1404	45° Flare/45° Flare
J512, 010302	3104	45° Flare/Pipe
J512, 010220	2504	45° Flare/Str. Thrd. O-Ring
All 37° Flared Hose Adapters Meet JIC and ASME Standards.		
J514, 070101	0303	37° Flare/37° Flare
J514, 070102	0103	37° Flare/Pipe
J514, 070103	0203	37° Flare/Pipe
J514, 070109	03P	37° Flare/Plug
J514, 070110	06B	Short Nut
J514, 070112	06C	Cap Nut
J514, 070115	06S	Tube Sleeve
J514, 0701180	53N	Lock Nut
J514, 070119	03L3	37° Flare/37° Flare
J514, 070122L	5303	37° Flare/Str. Thrd. O-Ring
J514, 070122L	05L3	37° Flare/Str. Thrd. O-Ring
J514, 070123	0603	37° Flare/Flare Swivel
J514, 070201	2303	37° Flare/37° Flare
J514, 070203	2203	37° Flare/Pipe
J514, 070220	2503	37° Flare/Str. Thrd. O-Ring
J514, 070221	3903	37° Flare/Str. Thrd. O-Ring
J514, 070302	3103	37° Flare/Pipe
J514, 070320	3503	37° Flare/Str. Thrd. O-Ring
J514, 070321	3703	37° Flare/37° Flare Swivel
J514, 070401	033T	37° Flare/37° Flare
J514, 070424	013T	37° Flare/Pipe
J514, 070425	213T	37° Flare/Pipe
J514, 070426	023T	37° Flare/Pipe
J514, 070427	223T	37° Flare/Pipe
J514, 070428	053T	37° Flare/Str. Thrd. O-Ring
J514, 070429	253T	37° Flare/Str. Thrd. O-Ring
J514, 070432	063T	37° Flare/37° Flare Swivel
J514, 070433	393T	37° Flare/37°Flare Swivel

Standard	Parker Part Number	Description
SAE Standards – Adapters (Continued)		
J514, 070501	033X	37° Flare/37° Flare
J514, 070502	5603	37° Flare/Pipe
J514, 070601	0353	37° Flare/37° Flare Bulkhead
J514, 070701	2343	37° Flare/37° Flare Bulkhead
J514, 070801	3353	37° Flare/37° Flare Bulkhead
J514, 090109	05CP	Str. Thrd. O-Ring Plug
J514, 070202	2103	37° Flare/37° Flare
J514, 070603	0253	37° Flare/37° Flare
J514, 070958	533T	37° Flare/37° Flare
J514, 070959	543T	37° Flare/37° Flare
J514, 071602	5703	37° Flare/Pipe
J514, 090136	0510	Str. Thrd. O-Ring
J514, 090109B	05HP	Str. Thrd. O-Ring/Hex Plug
J514, 080110	11N	Flareless Nut
J514, 080102	0111	Flareless Adapter
J514, 080115A	11S	Flareless Ferrule
J514, 140137	0101	Pipe Nipple
J514, 140138	0202	Pipe/Pipe
J514, 140139	0201	Pipe/Pipe
J514, 140140	0102	Pipe Reducer
J514, 140238	2202	Pipe/Pipe
J514, 140239	2102	Pipe/Pipe
J514, 140338	4202	Pipe/Pipe
J514, 140339	3102	Pipe/Pipe
J514, 140424	012T	Pipe/Pipe
J514, 140425	212T	Pipe/Pipe
J514, 140438	022T	Pipe/Pipe
J514, 140109P	01HP	Pipe Plug
J514, 140109E	01CP	Pipe Plug
J514, 140237	2101	Pipe/Pipe
J514, 140538	212T	Pipe/Pipe
J516, 140157	0507	Str. Thrd. O-Ring/Pipe Swivel
J516, 140231	2207	Pipe/Pipe Swivel
J516, 140257	2507	Str. Thrd. O-Ring/Pipe Swivel
J516, 140357	3507	Str. Thrd. O-Ring/Pipe Swivel
J516, 140130	0107	Pipe/Pipe Swivel
J516, 140131	0207	Pipe/Pipe Swivel
J516, 140230	2107	Pipe/Pipe Swivel
J516, 140330	3107	Pipe/Pipe Swivel

Applicable Standards for Industrial Hose Products
By Standard Number

Industry Stds*	CARB	EPA	ISO 1307-1997	SAE								TMC RP303B
				J20R1 A	J20R2 A	J20R2 D-1	J20R3 A	J20R3EC D-2	J30R7	J30R14 T2	J2006	
Hose Series**	389	389	6620	6620	6621	7395 (Performance)	6722	7181	389	389	ES269	6620
	397	397	6621	6750	6623		6723		395	397 (Performance)	SS269	6621 (Performance)
			6623	6751			6724		397 (Performance)		SW569	6623
			6635									

*Industry and/or Governmental Organizations

CARB Caiifornia Air Resource Board
EPA Environmental Protection Agency
ISO International Standards Organization
SAE Society of Automotive Engineers
TMC

** See product pages for details.

Applicable Standards For Parflex Products

Agency and Specifications	Approved Parflex Products
Flame Resistance:	
MSHA	D6R, 560, 590 (except -3), 510C (except -4), 540N, 56DH, HLB
UL94HB	83FR NN, NB, NNR, NBR (wall thickness above 0.033", contact Parflex for availability)
Natural Gas Service:	
For Vehicles and Dispensing Systems ANSI IAS NGV4.2 - CSA 12.52	5CNG
European Safety Standard (TUV) Kraftfahrt-Bundesamt ECE R110	5CNG-3, 5CNG-8 (Assemblies from Parker Polyflex Europe Only)
Hydraulic Service:	
SAE 100R1	560
SAE 100R2	590
SAE 100R7	540N, 548N, 510C, 518C
SAE 100R14	919
SAE 100R14B	919B
SAE 100R16	590
SAE 100R17	D6R
WASTEC WRP05-1996 (check revision):	
Waste Equipment Technology Association	S4, S5, S6, S9
Transportation Standards:	
SAE J844, FMVSS106 (49CFR571.106)	1120A, 1120B, BRAKCOIL®, SliderCoil™
Electrical, Non-Conductivity:	
SAE J517	518C, 548N, 568DH
DNV (with approved fittings only):	
Det Norski (Norwegian) Veritas Marine Steel Ships, Mobile Offshore and Fixed Offshore Drilling Units	520N, 580N, 588N, H580N, 518C, 540N, 573X, 575X, 590, 593, 560
American Bureau of Shipping (ABS):	
Product Design Assessment	590-4, 590-6, 590-8

Applicable Standards For Tube Fittings Products
by Standard Number

Standard	Description
ASTM A269	Seamless and welded type 316 Stainless Steel tubing
ASTM B633	Zinc plating
ASTM F1387	Mechanically attached fittings — Triple-Lok, Ferulok and Seal-Lok
DIN 2353	24° cone compression (bite-type) fitting range (configurations)
DIN 3852-1	Metric parallel thread port (ISO 9974-1)
DIN 3852-2	BSPP parallel thread port (ISO 1179-1)
DIN 3852-3	Metric O-ring port (ISO 6149-1)
DIN 3861	24° cone machining and sleeve for compression (bite-type) fittings
DIN 3865	24° cone nipple with O-ring
DIN 3859	Technical delivery conditions for compression fittings
DIN 1630	Seamless steel tube
DIN 2391	Seamless precision steel tubes
DIN 17458	Stainless steel tubes
ISO 1179	BSPP, flat face port and stud ends – same as DIN 3852 - Part 2
ISO 3304	Seamless precision steel tubes
ISO 3305	Welded precision steel tubes
ISO 6149	Metric straight thread O-ring port and stud ends – same as SAE J2244 and DIN 3852, Part 3
ISO 6162	Four bolt split flange connections – inch and metric bolts (inch bolt, Part II – same as SAE J518)
ISO 8434-1	24° cone bite type fittings (EO fittings)
ISO 8434-2	Metric 37° flare fittings (Metric Triple-Lok)
ISO 8434-3	Metric face seal fitting with ISO 6149 port end – (Metric Seal-Lok)
ISO 8434-4	24° cone bite type fittings with weld nipple (EO Fittings)
ISO 19879	Test methods for threaded fluid connectors
SIO 8434-6	60° cone connectors with BSPP threads
ISO 9974	Metric flat face port and stud ends – same as DIN 3852 - Part 1
JIS B8363	60° cone (male and female) hose adapters
MIL-16142	UN/UNF straight thread O-ring port – same as SAE J1926-1
MIL-F-18866	37° flare and flareless tube fittings – Triple-Lok and Ferulok (dimensionally similar to SAE J514)

Standard	Description
MIL-33649	Straight thread O-ring port – different from SAE J1926-1
NFPA T3.8.32)	Test methods for steel separable tube fittings
SAE J343	Tests and procedures for hose and hose assemblies (impulse test applies to fittings)
SAE J356	Welded and flash controlled low carbon steel tubing
SAE J512	Automotive tube fittings - 45° flare type - Inverted flare type - Tapered sleeve compression type
SAE J514	Hydraulic tube fittings - 37° flare (Triple-Lok) - Flareless – 24° bite type (Ferulok) - O-ring plugs - Pipe fittings - Adapter unions (pipe swivel – “07” adapters)
SAE J515	Hydraulic O-rings (SAE straight thread, face seal, four-bolt split flange, and metric O-ring port)
SAE J518	Code 61 and 62 four-bolt split flange connections – (same as ISO 6162 Type II flange connection)
SAE J524	Seamless low carbon steel tubing
SAE J525	Welded and cold drawn low carbon steel tubing
SAE J527	Brazed double wall steel tubing
SAE J528	Seamless copper tube
SAE J531	Automotive pipe, filler and drain plugs (HP and HHP plugs)
SAE J533	Flares for tubing – 37° and 45° single and double flares
SAE J846	Coding system for identification of fluid connectors
SAE J1065	Pressure ratings for hydraulic tubing
SAE J1231	Beaded tube hose fittings
SAE J1453	O-ring face seal fitting with SAE port end – (Seal-Lok)
SAE J1644	Test methods for fluid connectors
SAE J1926	SAE straight thread O-ring port and stud ends – same as ISO 11926
SAE J2244	Metric straight thread O-ring port and stud ends – same as ISO 6149
SAE J2435	Welded and flash controlled C-1021 tubing
SAE J2467	Welded and cold drawn, C-1021 tubing
SAE J2613	Welded and flash controlled high strength low alloy (HSLA) tubing
SAE J2614	Welded and cold drawn HSLA tubing

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Thread Designations and Document Standards for Threads Used in Fluid Connectors

Abbreviation	Description	Applicable Standards
Straight Pipe		
NPSC	American Standard Straight Pipe Threads in Pipe Couplings Couplings	ANSI B1.20.1 FED-STD-H28/7
NPSF	Dryseal American Standard Fuel Internal Straight Pipe Threads (generally used in soft or ductile materials to mate with NPTF external taper threads)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
NPSI	Dryseal American Intermediate Internal Straight Pipe Threads (for brittle or hard materials; intended to mate with PTF-SAE short external taper threads)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
NPSM	American Standard Straight Pipe Threads for Free-Fitting Mechanical Joints for Fixtures (these threads fit freely over NPTF threads. They are used in swivel nuts of 07 adapters)	ANSI B1.20.1 FED-STD-H28/7
Taper Pipe		
ANPT	Aeronautical National Taper Pipe Threads (similar to NPT with various additional requirements in gaging)	MIL-P-7105
NPT	American Standard Taper Pipe Threads for General Use	ANSI B1.20.1 FED-STD-H28/7
NPTF	Dryseal American Standard Taper Pipe Threads (used in all of our steel and brass fittings)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
PTF — SAE Short	Dryseal SAE Short Taper Pipe Threads (mainly used in low pressure pneumatic and fuel applications)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
PTF — SPL Short[1)]	Dryseal Special Short Taper Pipe Threads	ANSI B1.20.3
PTF — SPL Extra Short[1)]	Dryseal Special Extra Short Taper Pipe Threads	ANSI B1.20.3

Abbreviation	Description	Applicable Standards
Unified Threads		
UN	Unified Constant Pitch Threads (standard series: 4, 6, 8, 12, 16, 20, 28, 32)	ANSI B1.1 FED-STD-H28/2
UNC	Unified Coarse Threads	ANSI B1.1 FED-STD-H28/2
UNEF	Unifed Extra Fine Threads	ANSI B1.1 FED-STD-H28/2
UNF	Unified Fine Threads	ANSI B1.1 FED-STD-H28/2
UNS	Unified Special Pitch Threads	ANSI B1.1 FED-STD-H28/3
UNJ	Unified Controlled Root Radius Threads	ANSI B1.15 FED-STD-H28/4
Metric Threads		
M	Metric Screw Threads — M profile	ISO 261 ANSI B1.13M FED-STD-H28/21
M — Keg	Metric Taper Threads (mainly used in Germany)	DIN 158
British Standard Pipe Threads		
R (BSPT)	British Standard Taper Pipe Threads, External	BS 21 ISO 7/1
Rc (BSPT)	British Standard Taper Pipe Threads, Internal	BS 21 ISO 7/1
Rp or G (BSPP)	British Standard Pipe (Parallel) Threads	BS 2779 ISO 228/1
Japanese Standard Pipe Threads		
PF[2)]	JIS Parallel Pipe Threads	JIS B202 ISO 228/1
PT[2)]	JIS Taper Pipe Threads	JIS B203 ISO 7/1
PS	JIS Parallel Internal Pipe Threads (to mate with PT threads)	JIS B203

1) Used in some pneumatic components where shortened thread depth is required because of lack of enough material due to component size limitations.

2) PF and PT threads are functionally interchangeable with BSPP and BSPT threads, respectively. These are old designations. They are being replaced with G (for PF) and R and Rc (for PT) as documents are revised.

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Document Sources for Connector Specifications

ANSI American National Standards Institute
11 West 42nd Street, 13th Floor
New York, New York 10036-8002
Phone: 212-642-4900
Fax: 212-398-0023
www.ansi.org

BSI British Standards Institution
389 Chiswick High Road
London, W4 4AL
United Kingdom
Phone: 44-181-996-9000
Fax: 44-181-996-7400
http://www.bsigroup.com/

British Standards are also available from ANSI

DIN Deutsches Institut Fur Normung
(German Institute for Standards)
Burggrafenstrasse 6
Postfach 1107
D - 1000 Berlin 30, Germany
http://www.beuth.de/en/

English translations of some German Standards can be obtained from:

ANSI

— or —

Global Engineering Documents
15 Inverness Way East
Englewood, CO 80112-9660
Phone: 1-800-854-7179

FED-STD Federal Standard
Department of Defense Single Stock Point
Commanding Officer
Naval Publications and Forms Center
5801 Taber Avenue
Philadelphia, PA 19120-5099

ISO International Organization for Standardization
Case Postale 56
I, Rue de Varembe
CH - 1211 Geneve 20
Switzerland
http://www.iso.org/

ISO Documents are also available from ANSI

JIS Japanese Industrial Standards
Published by Japanese Standards Association
1-24 Akasaka 4
Minto-ku, Tokyo 107-8440
Japan
Phone: 81-3-3583-8000
Fax: 81-3-3586-2014

English translations of some Japanese Standards can be obtained from ANSI

SAE SAE International
400 Commonwealth Drive
Warrendale, PA 15096-0001
Phone: 412-776-4841
Fax: 412-776-0002
http://standards.sae.org/

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Alphanumeric Index

Part Number	Page(s)
090	D23
0C	K6
0E	K6
0F	K6
017M	D24
077T	F91
0107	F90
0109	F114
0188	D19
0207	F89
0507	F89
0588	D19
0688	D19
015301	M11
015306	M11
015307	M11
015308	M11
015309	M11
015736	M11
16	K7
17	K7
24	K7
25	K7
201	I8
206	I8
213	A4
239	M20
266	A5
271	I8
285	A13
293	I9
339	M20
389	A11
395	A11
397	A11
410	M36
436	A5
560	B5
590	B6
801	A4
811	A7
821	A4
836	A4
881	A8
919	B6
1120	I7
1163	L12
1232	M18
1588	D19
1788	D19
1988	D19
2107	F90
2188	D19
2207	F91
2507	F90
2600	M38
2625	M38
2650	M38
2676	M38
2829	M13, M14
3005	L12
3009	L12
3010	L12
3050	L12
3107	F90
3188	D20
3207	F90
3507	F90
3788	D20
3988	D20
4010	L8
4050	L8
4110	L8
4150	L8
5005	L8, L11
5009	L8, L11
5050	L11
5205	L8, L11
5209	L8, L11
5507	F90
5607	F91
6100	L11
6105	L11
6107	L11
6108	L11
6109	L11
6110	L11
6115	L11
6120	L11
6125	L11
6130	L11
6135	L11
6601	L7
6602	L8
6608	L7
6610	L8
6620	C3
6621	C3
6623	C3
6657	L8
6659	L8
6722	C4
6724	C4
6750	C5
6751	C5
6823	C6
6824	C6
7181	A8
7186	A8
7219	A9
7236	A13
7307	A14
7309	A13
7395	A10
7399	A10
7705	A12
8010	L8, L11
8888	D20
10081	E53
10125	E14
10126	E14
10143	E19
10156	E32
10171	E40
10177	E45
10243	E20
10256	E32
10326	E14
10343	E20
10356	E33
10371	E40
10377	E45
10426	E14
10443	E20
10456	E33
10543	E20
10556	E33
10571	E40
10577	E45
10626	E14
10643	E20
10656	E33
10671	E40
10677	E45
10743	E21
10756	E33
10825	E14
10826	E14
10843	E21
10856	E33
11143	E21
11243	E21
11256	E34
11343	E22
11356	E34
11543	E22
11571	E40
11577	E46
11643	E22
11671	E41
11677	E46
11743	E22
11771	E41
11777	E46
11843	E22
11871	E41
11877	E46
11943	E22
11971	E41
11977	E46
12643	E23
12671	E41
12677	E46
12743	E23
12771	E41
12777	E46
12826	E14
12843	E23
13726	E15
13743	E23
13756	E34
13771	E42
13777	E47
13926	E15
13943	E24
13956	E34
13971	E42
13977	E47
14126	E15
14143	E24
14156	E35
14171	E42
14177	E47
14943	E24
15960	M20
16726	E18
16743	E25
16756	E35
16826	E18
16926	E18
16943	E25
16956	E35
17726	E18
17743	E25
17926	E18
17943	E25
18971	E42
19243	E25
19256	E35
20090	D23
20120	D8
20121	D11
20122	D13
20151	D14
20190	D21
20320	D8
20351	D14
20420	D8
20620	D8
20621	D11
20622	D13
20623	D14
20651	D14
20690	D21
20820	D8
20821	D11
20822	D13
20823	D14
20851	D15
20890	D21
21120	D8
21347	M32
21348	M32
21520	D8
21720	D9
21920	D9
22820	D9
22821	D11
22890	D21
23220	D9

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Alphanumeric Index

Part Number	Page(s)
23221	D11
23223	D14
23490	D22
23720	D9
23721	D11
23790	D22
23920	D9
23921	D11
23951	D15
23990	D22
24120	D9
24121	D11
24221	M33
24231	M33
24248	M20
24398	M20
25399	M11
26120	D9
26190	D22, I17
26720	D9
26721	D12
26790	D22
26920	D10
26921	D12
26990	D22
27121	M33
27131	M33
27720	D10
27721	D12
27790	D23
27920	D10
27921	D13
27990	D23
28120	D10
30182	D15
30282	D15
30382	D15
30482	D15
30682	D15
30882	D15
31382	D16
32882	D16
32982	D16
33482	D16
33782	D16
33982	D16
34182	D16
34982	D16
35082	M32
36782	D16
36982	D17
37782	D17
37982	D17
38282	D17
39282	D17
54505	M32
54531	M32
56707	M31
56747	M31
550570	M15
550572	M15
550573	M17
550574	M17
550575	M17
550576	M17
550577	M17
550578	M17
550579	M15, M16, M17
550580	M17
550581	M15, M16, M17
550582	M15, M16, M17
550583	M15, M16, M17
550584	M15, M16, M17
550585	M15, M16, M17
560569	M15
580661	M20
590533	M17
590535	M17
590537	M17
621044	M16
621045	M16
621046	M17
621047	M16
621048	M17
621049	M16, M17
621102	M19
631075	M19
631076	M19
631140	M19
631156	M16
820090	M18
820091	M15, M16
820092	M15, M16
820093	M16
820094	M16
860062	M35
860063	M35
870149	M16, M17, M18
870150	M16
930420	M17
930421	M17
974250	M19
987036	M19
987037	M19
10191N	E54
10193N	E57
101CY	E58
101GHSV	G20
101HY	E60
101SF	E65
102CY	E58
102-F-*	M14
102HY	E60
10391N	E54
103HY	E60
105HY	E60
10691N	E54
10693N	E57
106CY	E59
106HY	E61
106SF	E65
10791N	E54
107HY	E61
10891N	E54
108HY	E61
10C43	E21
10C56	E34
10C77	E45
10G43	E21
10GHY	E61
10L43	E21
10LHY	E61
111HY	E62
113CY	E59
113HY	E62
1163-60-BPD	G20
1163-61-BPD	G20
11C43	E23
11C56	E34
11C77	E46
11D43	E23
11L43	E23
11LHY	E62
1200P-2200P	G17
1201P-2201P	G18
1202P-2202P	G17
1203P-2203P	G17
1204P	G17
122HBL	G20
1232 Wheel	M18
125HB	G21
125HBL	G21
125HBLSV	G21
126HBL	G21
127HB	G21
12891N	E54
128HBLSV	G21
128HY	E62
1295HB	G21
129HB	G21
129HY	E62
12U71	E42
13491N	E54
134HY	E62
13791N	E55
13793N	E58
137HY	E62
13991N	E55
13993N	E58
139CY	E59
139HB	G21
139HY	E63
13D43	E24
13DHY	E63
13E56	E34
1-4	K10
14*	K6
14-*	K6
14191N	E55
141HY	E63
144F	G15
144F-244F	G15
14526-PR	E15
14526-PT	E15
145F	G15
146HBLFSV	G21
147F	G15
1495F	G16
149F-249F	G16
149F-X-MIX	G22
14A77	E47
14B77	E47
14F77	E47
14FL	G14
14FS	G14
14FSV	G14
14G77	E47
14K	K6, K7
14K93N	E58
14KW	K6, K7
14KY	K6, K7
14N77	E48
14V43	E24
15*	K6
150F	G13
151F	G13
155F	G13
15926-PB	E15
15926-PT	E15
1595F	G13
159F-259F	G13
159F-X-MIX	G22
15G26	E15
15G26-PR	E15
15H26	E16
15K26	E16
15K26-PB	E16
15K26-PR	E16
15L26	E16
15L26-PB	E16
15L26-PR	E16
15L26-PT	E16
15M26-PR	E16
15M26-PT	E17
15N26-PB	E17
15N26-PT	E17
15P26-PT	E17
15R26	E17
15S26	E17
15T26	E17
15V26	E17
15W26	E17
15Z26	E17
16*	K6, K7
16-*	K6, K7
16191N	I17
164C	G11
164PMT	I10
164PTC	G9
164VL	G10
165C-265C	G11
165PMT	I10
165PMTBH	I10
165PTC	G9
166FSV	G13
16791N	E55
167HY	E63
168C	G11
1695HB	G21
1695VLV	G10

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Part Number	Page(s)
16991N	E55
169C-269C	G11
169HB-X-MIX	G22
169HY	E63
169PMT	I10
169PMTBH	I10
169PMTL	I10
169PMTNS	I10
169PMTNS-X-M	I10
169PMTR	I10
169PTCNS	G9
169VL	G10
16A43	E25
16A71	E42
16A77	E48
16A79	E52
16B77	E48
16E77	E48
16F43	E25
16F71	E42
16F77	E48
16F79	E52
16G77	E48
16G79	E52
16K	K6, K7
16KW	K6, K7
16KY	K6, K7
16N43	E25
16N71	E42
16N77	E48
16N79	E52
17*	K6, K7
170C-270C	G12
170PMT	I11
170PMTNS	I11
170VL	G10
171C	G12
171HB	G22
171PMT	I11
171PMTNS	I11
171PTCNS	G9
171VL	G10
1725HB	G22
172C	G12
172PMT	I11
172PMTNS	I11
172PTCNS	G9
176C	G12
17791N	E56
177C	G12
177HY	E63
1795HB	G22
17991N	E56
179C	G12
179HB	G22
179HB-X-MIX	G22
179HY	E63
179PMT	I11
179PMTNS	I11
179VL	G10
17B25	I17
17B26	I17
189PMTR	I11
18-DC	M44
19291N	E56
193HY	E63
1AL56	E35
1AP77	E49
1B143	E26
1B156	E35
1B243	E26
1B256	E35
1B291N	E56
1B443	E26
1B456	E36
1B543	E26
1C	K6
1C043	E26
1C343	E26
1C356	E36
1C443	E26
1C456	E36
1C543	E26
1C556	E36
1C643	E27
1C656	E36
1C943	E27
1C956	E36
1C971	E43
1C977	E49
1CA43	E27
1CA56	E37
1CE43	E27
1CE56	E37
1CF43	E27
1CF56	E37
1D043	E28
1D056	E37
1D0HY	E64
1D243	E28
1D256	E37
1D271	E43
1D277	E49
1D943	E28
1D956	E38
1D9HY	E64
1E	K6
1EN43	E28
1ET43	E28
1EU43	E28
1F	G14, K6
1F443	E28
1FU43	E28
1FU71	E43
1FU77	E49
1GJ43	E29
1GJHY	E64
1GKCY	E59
1GU43	E29
1GU71	E43
1GU77	E49
1GUHY	E64
1J043	E29
1J056	E38
1J071	E43
1J077	E49
1J0HY	E64
1J143	E29
1J156	E38
1J171	E43
1J177	E49
1J191N	E56
1J1HY	E64
1J256	E38
1J543	E29
1J556	E38
1J571	E43
1J577	E50
1J643	E29
1J726	E18
1J743	E30
1J756	E38
1J771	E44
1J777	E50
1J779	E53
1J791N	E57
1J793N	E58
1J7HY	E64
1J926	E18
1J943	E30
1J956	E39
1J971	E44
1J977	E50
1J979	E53
1J991N	E57
1J993N	E58
1J9CY	E59
1J9HY	E65
1JB43	E30
1JBSF	E65
1JC26	E19
1JC43	E31
1JC56	E39
1JC71	E44
1JC77	E50
1JC91N	E57
1JC93N	E58
1JCCY	E59
1JCHY	E65
1JS43	E31
1JS56	E39
1JS71	E44
1JS77	E50
1JS79	E53
1JSHY	E65
1JSSF	E66
1K577	E50
1K777	E50
1K977	E51
1L743	E31
1L943	E31
1L956	E39
1L971	E44
1LB43	E32
1LMCY	E59
1MU43	E32
1MU71	E44
1RV26	E19
1RZ26	E19
1S243	E32
1S526	E19
1S526-PR	E19
1T126	E19
1TU56	E39
1TU91N	E57
1UT43	E32
1UT71	E44
1UTHY	E65
1X577	E51
1X777	E51
1X977	E51
1XA77	E51
1XA79	E53
1XB77	E51
1XE77	E51
1XF77	E51
1XF79	E53
1XG77	E52
1XM77	E52
1XN77	E52
1XN79	E53
1XU43	E32
1XU71	E45
1XUHY	E65
1ZM77	E52
201BU	D23
206BU	D23
207ACBH	G18
207P	G16
208-FSS-BPD	M20
208P	G16
209P	G16
210A	M21
210P	G16
211P	G16
212FB	M21
212P	G16
213BU	D23
213P	G16
215PN	G16
215PNL	G17
216P	G17
217T	F91
218B	M18
218B Shaft	M18
218B Wheel	M18
218P	G17
219P	G17
21K	K6, K7
21KW	K6, K7
21KY	K6, K7
2200PDE	G18
2205P	G18
220P	G17
2214P	G18
2224P	G17
2225P	G18
222P	G17
222P-X-MIX	G22
226A	M20

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Alphanumeric Index

Part Number	Page(s)
226A Blades	M20
227T	F91
24*	K7
24-*	K7
244IFHD	G18
245IFHD	G19
249IFHD–249IF	G19
24B-Cabinet	M44
25*	K7
250IFHD	G19
251IFHD	G19
252IFHD	G19
255IFHD	G19
259IFHD	G19
25H21	D12
25L21	D12
25M21	D12
25N21	D12
25S21	D12
25T21	D12
264AB	I14
264C	G11
264NTA	I15
265AB	I14
265NTA	I15
269HB	G22
269PMT	I10
269TF	G9
270AB	I14
270NTA	I16
279HB	G22
2C*	K6
2E	K6
2F	K6
2GF	G14
2J120	D10
2J720	D10
2J920	D10
2JS20	D10
2S521	D13
31D82	D16
32PTC	I12
332T-115V	M20
351ST	A6
351TC	A6
362PTC	I12
364PTC	I12
365PTC	I12
367-FH-BPD	M14
368-FH-BPD	M14
368PTC	I12
369PTC	I12
369PTCSP	I12
370PTC	I12
371PTC	I12
371PTCSP	I12
372PTC	I12
372PTCSP	I12
377PTC	I13
379PTC	I13
37G82	D17
37PTCSP	I13
38K	K7
38KW	K7
38KY	K7
3B282	D17
3C*	K6
3C382	D17
3C482	D17
3C582	D18
3CA82	D18
3CF82	D18
3D082	D18
3D982	D18
3E	K6
3F	K6
3GF	G14
3J182	D18
3J782	D18
3J982	D18
3JC82	D19
400-S-TIP	M36
40B-Cabinet	M44
410-N	M36
410-S	M36
410-SV	M36
412 KIT	M15
415-N	M36
415-S	M36
41FL	G14
41FS	G14
41IF	G18
41IFF	G18
41IFS	G18
424 KIT	M16
42F	G14
42IFHD	G18
43F	G15
451ST	A6
451TC	A6
46F	G15
46IFHD	G18
471ST	A5
471TC	A5
472LT	A5
485F	G15
48F	G15
48F-X-MIX	G22
48IFHD	G18
50GHSV	G19
50H	M22
510C	B4
518C	B4
53GH	G19
540N	B5
54GH	G19
55AG	M27
55GH	G19
55SG	M27
55SSG	M27
56DH/568DH	B6
56RBSG	I17
58AG	M27
58SG	M27
5E*	K6
5F	K6
60 HAB	D24
60AB	I15
60C	G12
60NTA	I16
60PT	G12
60RB	I17
60TF	G9
60VL	G10
60VLV	G10
61 HAB	D24
611HT	I8
61AB	I15
61C	G12
61CL	G12
61NTA	I16
61RB	I17
61RBSG	I17
61TF	G9
61VL	G10
62AB	I14
62ABH	I14
62ANBH	I14
62C	G11
62CBH	G11
62NBH	I14
62NFBH	I14
62NTA	I15
62PMT	I9
62PMTBH	I9
62PMTBHR	I9
62PTC	G9
62RB	I17
62TF	G9
62VL	G10
639C	G12
639F	G13
639PM/639PMT	I11
63NTA	I16
63PT	G12
640F	G13
660FHD	G13
661FHD	G13
664FHD	G14
66AB	I14
66C	G11
66NBH	I15
66NTA	I15
66PMT	I9
66PMTBH	I9
66PTC	G9
66RBSV	I17
66VL	G10
6723/6723M	C4
67RBSG	I17
682C	G12
682VL	G10
685HB	G20
685VLV	G10
68C	G11
68HB	G20
68HB-X-MIX	G20
68NTA-X-MIX	G22
68PMT	I9
68PMTBH	I10
68PMT-X-M	I10
68PTC	G9
68RB	I17
68RBSG	I17
68TF	G9
68VL	G10
69GH	G19
70GH	G19
71GH	G19
7216E	A12
722LT	A6
722TC/ST	A6
75GH	G19
76RB	I17
787TC	A7
78GH	G19
792LT	A7
79GH	G19
80C-Axx	M12
80GH	G19
811HT	A7
81C-R01	M12
81C-R02	M12
81GH	G19
82C-061L	M9
82C-0AP	M10
82C-0EP	M9
82C-0HP	M9
82C-CHD	M9
82C-KKB	M9
82C-R01	M9
82C-R02	M9
82C-R02-PFD	M11
82GH	G19
83C-001	M11
83C-080	M11
83C-KDA	M11
83C-OCB	M11
83C-R01-PFD	M11
83C-R02	M11
83C-R02H	M11
83C-S20	M11
83C-S40	M11
83GH	G19
85C-00L	M10
85C-061L	M10
85C-0EP	M11
85C-0HP	M10
85C-12V	M11
85C-1PH	M9, M10
85C-CHD	M10
85CD-00L	M9
85C-KKB	M10
85C-R01	M10
85C-R02	M10
85C-STD	M9, M10
88DB	D20, M29
88GH	G19
88HC	D20, M29
88HC-H	D20, M29

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Part Number	Page(s)
8C*	K6
8GC-002	M12
8PC-001	M12
8PC-00P	M12
8PC-030	M11
8WC-001	M12
8WC-00P	M12
901GH	G20
90GH	G20
93-FB-BPD	M21
945TH	M21
94C-001-PFD	M11
94C-060-PFD	M11
94GH	G20
95GH	G20
96GH	G20
97HC	G20
98GH	G20
98GHSV	G20
99GH	G20
99GHSV	G20
9C*	K6
9-DC	M44
A2C	K9
A3C	K9
A87LPOEG87LPM	F86
A8CP	K9
AF160026	M19
AG	M22
AM	D24, E24
AOE4G	F86
AOEG	F85
AOEG5	F85
AOEL6	F27
AOEX6	F40
AOG5JG5	F87
AS	F59
AS3	F105
AS6	F105
AS-B	M23
AS-Y	M23
B10	K6
B10-*	K6
B12*	K6
B13*	K6
B14	K6
B15	K6
B16	K6, K7
B17	K6, K7
B20-*	K7
B22*	K7
B23*	K7
B24	K7
B25	K7
B2C	K6
B30-*	K7
B32*	K7
B33*	K7
B34*	K7
B34-*	K7
B35*	K7
B36*	K7
B36-*	K7
B37*	K7
B38*	K7
B38-*	K7
B39*	K7
B3C	K6
B3HQ	F100
B50-*	K9
B52*	K9
B53*	K9
B72	K9
B73	K9
BFG	F101
BFW	F108
BG441-NBL	M37
BG442-SBL	M37
BG443-NBL	M37
BG444-SBL	M37
BH*-60	L7
BH*-60-STM	L7
BH*-61	L7
BH*-61-STM	L7
BH2*	K11
BH3*	K11
BH5G	K11
BH8CP	K11
BL	F20
BML	F20
BPGF	K8
BPGFN	K8
BST	L12
BTX	F32
BU	F48
BUEQ1	F107
BUHLO	F96
BUHQ1	F99
BUVQ1	F107
BVGF	K8
BVGFC	K8
C2PMTB	I13
C3MX	F43
C3P4	F92
C3PMTB	I13
C3T4	F91
C4OMLO	F29
C4OMX	F42
C5BU	F50
C5OLO	F28
C5OX	F41
C5OXO	F47
C6BU	F49
C6LO	F27
C6MK4	F94
C6MLO	F27
C6X	F40
C6XO	F47
C87OMLO	F28
C87OMX	F42
C8OMLO	F28
C8OMX	F42
C8UPMTB	I13
CBI2	F52
CBU	F50
CC5BU	F50
CC5OLO	F28
CC5OX	F40
CC87OMLO	F28
CCCTX	F41
CCTX	F41
CD	F86
CD 4078	M39
CD45	F85
CFE	L10
CL	M28
CLO	F28
CP	F106
CR	F86
CTX	F41
CTXO	F47
D	F53
D6R	B5
DA	F60
DBI2	F52
DBU	F50
DC601	H11
DC602	H11
DC603	H11
DC604	H11
DC606	H11
DC607	H11
DCR601	H11
DD	F86
DD45	F85
DG101	F75
DG102-M	F76
DG102-R	F76
DG103	F75
DG104-M	F76
DG104-R	F76
DG105	F75
DG106-M	F77
DG106-R	F76
DG107	F76
DG108	F76
DPR	F53
DT-*-MFMF-*	M38
DT-*-MFMO-*	M38
DTX	F42
DV	F78
DVGE-M	F75
DVGE-R	F75
DVWE-M	F75
DVWE-R	F75
E	F54
E6MK4	F94
EAS-500	L8
EBU	F49
EGE-M-ED	F62
EGE-NPT	F61
EGEO	F61
EGE-R-ED	F61
EL	F72
EL-M-ED	F73
ELO	F27
EL-R-ED	F72
EMK4	F94
EMLO	F27
ERHD	I10
ES*	I10
ESV	F56
ET	F71
ET-M-ED	F72
ET-R-ED	F72
ETX	F40
ETXO	F47
EW	F66
EW-M-ED	F66
EW-R-ED	F66
EZ	K10
F2PMTB	I13
F3HG	F85
F3HG5	F85
F3MK4	F94
F3MX	F37
F3P4	F92
F3PMTB	I13
F3T4	F91
F42EDMLO	F23
F42EDMX	F36
F4OHG	F84
F4OHG5	F84
F4OMX	F37
F5BU	F48
F5OF	F80
F5OG	F82
F5OG5	F81
F5OHAO	F80
F5OHG4	F82
F5OHG8	F81
F5OHQ1	F99
F5OHQ2	F99
F5OLO	F22
F5OX	F34
F5OXO	F46
F63MX	F38
F63P4	F92
F642EDML	F25
F642EDMX	F38
F65OL	F25
F65OX	F37
F682EDML	F25
F682EDMX	F38
F687OML	F25
F687OMX	F38
F68OMX	F38
F6L	F25
F6MK4	F93
F6X	F38
F82EDMLO	F23
F82EDMX	F36
F87OHG87M	F84
F87OMLO	F23
F87OMX	F36
F8OHG	F83
F8OHG5	F83
F8OMX	F36
F8UPMTB	I13
FBI2	F52

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Alphanumeric Index

Part Number	Page(s)
FBU	F49
FC	L9
FCC	F98
FCS	F97
FEC	L10
FEM	L9
FF	F80, L9
FF33M	F81
FF5OLO	F22
FF5OX	F35
FFF	F80
FFTX	F35
FG	F83
FH	L10
FHG4	F83
FHG5	F82
FHG8	F83
FHS3	F98
FHS6	F98
FLO	F22
FM	F54
FMK4	F93
FNI	F53
FNL	F32
FNMK4	F94
FNMKA	F96
FNML	F32
FNMP4	F92
FNMT4	F91
FNTX	F46
FNU	F52
FR	L9, L10
FS	L10
FSC Clamp	M25
FS-F	M24
FSS	M25
FST-711617	M25
FTX	F35
FTXO	F46
G	F55
G3P4	F92
G4MK4	F93
G4MX	F37
G4Q	F103
G5EQ	F109
G5G5JAO	F87
G5G5JG5	F87
G5HG5	F81
G5HQ	F101
G5Q	F102
G5Q – Stainless Steel	F110
G63P4	F92
G65L	F25
G6L	F25
G6X	F37
GAI-M	F59
GAI-R	F59
GBI2	F52
GBU	F49
GE-M	F58
GE-M-ED	F57
GE-NPT	F56
GEO	F57
GEQ	F109
GE-R	F58
GE-R-ED	F57
GE-UNF/UN	F56
GFS	F100
GG	F81
GG44M	F81
GHQ	F101
GLO	F23
GM	F54
GMA3	F111
GQ	F102
GQ – Stainless Steel	F110
GQS	F105
GR	F55
GTX	F35
GTXO	F47
GZ	F61
GZR	F61
H*-62	L7
H*-63	L7
H*-65	L7
H*-66	L7
H0*	K11
H1*	K11
H1-65M	L8
H1-66M	L8
H2*	K11
H3*	K11
H3-68	L7
H3-69	L7
H4*	K11
H5*	K11
H6*	K11
H6MK4	F93
H8*	K11
H9*	K11
HBI2	F52
HBU	F48
HC	M29
HC-548N	B6
HF	K8
HG	M26
HHP	F88
HL6	F25
HLB	B5
HLO	F21
HMK4	F93
HMKA	F95
HMLO	F21
HP	F88, M30
HP3M	F89
HP4	F92
HP46	F92
HP5ON	F88
HP-B	M30
HPC	F88
HPMTB	I13
HT	M30
HTFL	J3
HTX	F33
HTXO	F46
HV104C	H12
HV104C-kit	H12
HX6	F37
J6MK4	F95
J788	D20
J988	D20
JBI2	F52
JBU	F50
JC88	D21
JLO	F29
JMK4	F94
JMLO	F29
JPMTB	I13
JS88	D21
JTX	F43
JTXO	F47
JX6	F43
K	F74
KBU	F51
KH	F79
KH-R/NPT	F80
KLO	F31
KMMOO	F88
KTX	F46
L2C	K9
L3C	K9
LD	F79
LEE-M	F71
LEE-OR	F71
LEE-R	F71
LEE-UNF/UN	F70
LHTX	F33
LOEQ1	F107
LOEQ2	F107
LOEX6	F96
LOHB3	F24
LOHL6	F25
LOHL6 Orifice	F114
LOHL6G5TP	F111
LOHQ1	F99
LOHQ2	F99
LOHT3	F24
LOHU86	F96
LOHX6	F96
LOVQ1	F107
LOVQ2	F107
LV91	I15
M	F53
MBI2	F52
MBU	F51
MIK-1	M34
MMLOHB3	F24
MMO	F88
MMO444M	F88
MMS	F87
MRO	F87
MTM04T-TFD	M31
MTX	F45
MV608	H6
MV609	H6
MV708	H6
MV709	H6
NR	L8, L9, L10
NS	L8
NV101F	H12
NV102F	H12
NV103F	H13
NV104C-NV104CA	H13
NV105C-NV105CA	H13
NV106C-NV106CA	H13
NV107P	H13
NV108P	H13
NV109P	H13
NV311P	H13
NV312P	H13
OBI2	F52
OBU	F51
OLUBE-884-4-TFD	M31
OTX	F45
PF101	
P47OMN	F89, F92
P5ON	F88
P87OMN	F89
PBH	K10
PBS	K10
PD XXXXX-XXXXX	M39
PD240	M40
PDH-19	M40
PDH-32	M40
PDP242	M43
PDP323	M43
PDP341	M43
PDP343	M43
PDP361	M43
PD XXXXX-XXXXX-CAN	M39
PER	K10
PES	K10
PFE	L10
PFT	J3
PG	M26, M27
Pneu-Cab	M44
PNI	F52
PNLO	F31
PNMK4	F94
PNMKA	F95
PNMLO	F31
PNMP4	F92
PNMT4	F91
PNTX	F46
PNU	F51
Portboard A	M34
Portboard B	M34
PQ	F106
PQ – Stainless Steel	F110
PS	M23
PS*10102	F115
PS*10103	F115
PS*10106	F115
PS*10110	F115
PS*10202	F115

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

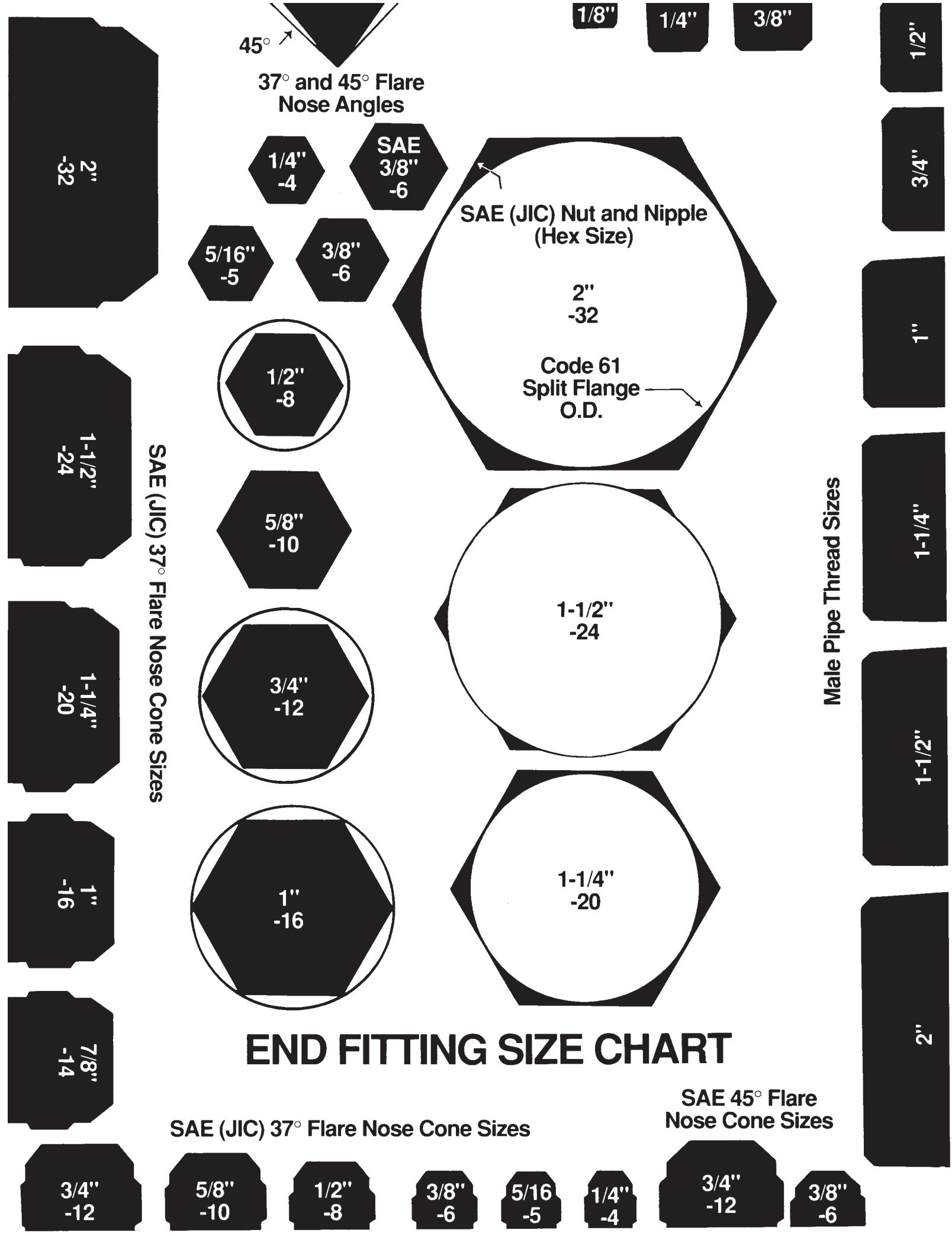
Part Number	Page(s)
PS*10203	F115
PS*10206	F115
PS*10210	F115
PS*10302	F115
PS*10303	F116
PS*10306	F116
PS*10310	F116
PS*10502	F116
PS*10503	F116
PS*10506	F116
PS*10510	F116
PS*11002	F116
PS*11003	F116
PS*11006	F117
PS*11010	F117
PS*1JMJM	F117
PS*90102	F117
PS*90103	F117
PS*90105	F117
PS*90106	F117
PS*90107	F117
PS*90110	F117
PS*901JM	F117
PS*90202	F118
PS*90203	F118
PS*90205	F118
PS*90206	F118
PS*90207	F118
PS*90210	F118
PS*90302	F118
PS*90303	F118
PS*90305	F119
PS*90306	F119
PS*90307	F119
PS*90310	F119
PS*90502	F119
PS*90503	F119
PS*90505	F119
PS*90506	F119
PS*90507	F119
PS*90510	F119
PS*91002	F120
PS*91003	F120
PS*91005	F120
PS*91006	F120
PS*91007	F120
PS*91010	F120
PSR	F53
PTC-001	M18
PTC-01RB	M18
PTFE Tape	M32
PTR	F82
PTR34M	F84
PV	M27
QPQPJQ	F109
R4OMLO	F31
R4OMX	F46
R5BU	F51
R5OLO	F30
R5OX	F44
R5OXO	F47
R6BU	F50
R6LO	F30
R6MK4	F95
R6MLO	F30
R6X	F44
R87OMLO	F31
R87OMX	F45
RBU	F51
RED	F60
RF	K12
RHD	F77
RHDI	F78
RHV-M-ED	F77
RHV-R-ED	F77
RHZ-M-ED	F78
RHZ-R-ED	F78
RI	F85
RI-ED	F84
RK	F122
ROV	F74
RRS	F87
RTX	F45
RTXO	F47
RVP	F78
S2101	F120
S2102	F120
S2103	F121
S2107	F121
S2110	F121
S22	K7
S2201	F121
S2202	F121
S2203	F121
S2207	F121
S2210	F121
S23	K7
S2301	F121
S2302	F121
S2303	F121
S2307	F121
S2310	F122
S2501	F122
S2502	F122
S2503	F122
S2507	F122
S2510	F122
S2C	K6
S32633-BPD	M18
S4	B7
S4OMLO	F31
S4OMX	F45
S5	B7
S5BU	F51
S5OLO	F30
S5OX	F44
S6	B7
S6BU	F50
S6LO	F30
S6MK4	F95
S6MLO	F30
S6X	F44
S87OMLO	F31
S87OMX	F45
S8UPMTB	I13
S9	B7
SAE-500	L8
SBR	F21, F33
SBU	F51
SCA-7/16-EMA-3	M40
SCC-110	M40
SCC-155-02-05	M43
SCC-210	M39
SCC-300	M40
SCJA-1/4	M40
SCJR-*-4MP	M40
SCJR-*-EMA	M40
SCJR-*-PD	M40
SCJR8-KIT-EMA	M41
SCJR8-KIT-PD	M41
SCK-102-03-02	M39
SCK-315-02-36	M39
SCK-401-0.3-Y	M39
SCK-401-05-4F-4M	M39
SCK-401-R	M39
SCK-USB-MINISTICK	M39
SCM-155-0-02	M39, M43
SCM-155-2-05	M39
SCSN-440	M39
NN-*	J4
NB-*	J4
SG	M22
SH*	K11
SHP	F88
SKA	F62
SLO	F30
SLUBE-884-2-TFD	M31
SMA3-*	M43
SMA3-400	M40
SPGG5	F106
SPV104C-kit	H13
SS23CG	A12
SS25UL	A12
ST	L12
STX	F44
SV	F55
SV404P	H14
SWVE-M	F67
SWVE-R	F67
T	F68
T22X	F46
TC-1050-BPD	M18
TEE-M	F70
TEE-OR	F70
TEE-R	F70
TEE-UNF/UN	F69
TH11-1	M20
TH3-50-*	M19
TH3-51	M19
TH-M	F73
TH-M-KDS	F74
TH-R	F73
TH-R-KDS	F73
TKW160	A13
TL (Inch)	F20
TLS (Metric)	F21
TPL (Inch)	F20
TPLS (Metric)	F20
TR	F69
TR-37	L8
TRBU	F49
TRLON	F24
TRTX / TRTXN	F34
TU	F48
TX (inch)	F32
TX (metric)	F32
UC	K9
US5	G14
V203F	H11
V204F	H12
V303C/V303CA	H12
V304C/V304CA	H12
V3MX	F39
V3P4	F92
V3T4	F91
V401P	H12
V402P	H12
V403P	H12
V404P	H14
V404PH	H14
V405P	H14
V406P	H12
V407P	H12
V408NTA	I16
V409F	H14
V410NTA	I16
V412F	H14
V4OMLO	F26
V4OMX	F40
V5BU	F49
V5OLO	F26
V5OX	F39
V6LO	F26
V6X	F39
V87OMLO	F26
V87OMX	F39
VBU	F49
VDHA	F79
VDHB	F79
VEE-M	F63
VEE-OR	F62
VEE-R	F63
VEE-UNF/UN	F62
VH	F54
VKA	F74
VKA3	F114
VLO	F26
VS176NTA	I15
VS269AB	I14
VS269NTA	I16
VS271AB	I14
VS271NTA	I16
VS272AB	I14
VS272NTA	I16
VS279AB	I15
VS279NTA	I16
VS68AB	I15
VS68NTA	I15

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Alphanumeric Index

Part Number	Page(s)
VSTI M-ED	F89
VSTI M-OR	F89
VSTI R-ED	F89
VTX	F39
W	F63
W4Q	F103
W5Q	F103
W5Q – Stainless Steel	F110
W5SQS	F106
W6EQ	F109
W6Q	F104
W7EQ	F108
W7HQ	F101
W7Q	F103
WAS	F68
WB1HQ1	F102
WB1Q1	F104
WB3HQ1	F102
WB3HQ2	F102
WB3Q1	F104
WB3Q2	F104
WB5HQ1	F102
WB5HQ2	F102
WB5Q1	F104
WB5Q2	F104
WB7HQ2	F102
WB7Q2	F104
WBT	F105
WBU	F48
WEBU	F50
WEE-M	F66
WEE-OR	F65
WEE-R	F65
WEE-UNF/UN	F65
WELO	F27
WE-M keg	F64
WEMLO	F27
WE-NPT	F64
WE-R keg	F64
WETX	F40
WF5OLO	F22
WF5OX	F33
WFS	F108
WFTX	F33
WGTX	F34
WH-M	F67
WH-M-KDS	F68
WH-R	F67
WH-R-KDS	F68
WJJLO	F29
WJJMLO	F29
WJJTX	F43
WJLO	F29
WJMLO	F29
WJTX	F43
WLN	F32, F48
WLNL	F21
WLNML	F21
WLO	F21
WMK4WL4NM	F93
WMLO	F22
WNLO	F26
WNMLO	F26
WNTX	F39
WSD	F105
WSV	F63
WTX	F33
WV	F80
X6EF	F40
XEMK46	F97
XEQ1	F107
XEQ2	F107
XHB3	F35
XHBU	F96
XHBU2	F97
XHL6	F96
XHLO	F96
XHMK46	F97
XHMKA	F96
XHMKA6	F95
XHQ1	F99
XHQ2	F99
XHU86	F97
XHX6	F34
XHX6G5TP	F111
XHX7 Orifice	F114
XV500CS	H6
XV500CS-X-04	H6
XV500CS-X-21	H6
XV500HP-X	H6
XV500HP-X (LARGE)	H6
XV500P	H6
XV500P-20	H6
XV500P-24	H6
XV500P-32	H6
XV500P-X-04	H6
XV500P-X-21	H6
XV501P	H7
XV501P-X-04	H7
XV501P-X-21	H7
XV501SS	H7
XV502CS	H7
XV502CS-X-21	H7
XV502P	H7
XV502P-X-04	H7
XV502P-X-21	H7
XV502P-X-ACT	H7
XV502P-X-SUB	H7
XV502SS	H8
XV502SS-X-20	H8
XV502SS-X-21	H8
XV506CS	H8
XV506HP-X	H8
XV506HP-X (LARGE)	H8
XV506P	H8
XV506P-24	H8
XV506P-32	H8
XV509P	H8
XV510P	H8
XV510P-X-04	H9
XV520P	H9
XV533P	H9
XV540P	H9
XV590P	H9
XV590P-X-04	H9
XV591P	H9
XV591P-X-04	H9
XV600P	H9
XV633P	H9
XVP500CS	H9
XVP500HP-X	H9
XVP500HP-X (LARGE)	H10
XVP500P	H10
XVP501P	H10
XVP502CS	H10
XVP502P	H10
XVP502SS	H10
XVP506HP-X	H10
XVP506HP-X (LARGE)	H10
XVP510P	H10
XVQ1	F107
XVQ2	F107
XVV500P	H10
XVV501P	H11
XVV502P	H11
XVVP500P	H11
XVVP501P	H11
XVVP502P	H11

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.



END FITTING SIZE CHART

PARKER-HANNIFIN CORPORATION

OFFER OF SALE

The goods, services or work (referred to as the "Products") offered by Parker-Hannifin Corporation, its subsidiaries, groups, divisions, and authorized distributors ("Seller") are offered for sale at prices indicated in the offer, or as may be established by Seller. The offer to sell the Products and acceptance of Seller's offer by any customer ("Buyer") is contingent upon, and will be governed by all of the terms and conditions contained in this Offer of Sale. Buyer's order for any Products specified in Buyer's purchase document or Seller's offer, proposal or quote ("Quote") attached to the purchase order, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer.

1. Terms and Conditions. Seller's willingness to offer Products for sale or accept an order for Products is subject to the terms and conditions contained in this Offer of Sale or any newer version of the same, published by Seller electronically at www.parker.com/saleterms/. Seller objects to any contrary or additional terms or conditions of Buyer's order or any other document or other communication issued by Buyer.

2. Price; Payment. Prices stated on Seller's Quote are valid for thirty (30) days, except as explicitly otherwise stated therein, and do not include any sales, use, or other taxes or duties unless specifically stated. Seller reserves the right to modify prices to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified by Seller's Credit Department). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law.

3. Shipment; Delivery; Title and Risk of Loss. All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of normal use, whichever occurs first. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. No other claims against Seller will be allowed unless asserted in writing within thirty (30) days after delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the defect is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

6. LIMITATION OF LIABILITY. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE WITHIN A REASONABLE PERIOD OF TIME. **IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.**

7. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

10. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller retains a security interest in all Products delivered to Buyer and this agreement is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

11. Improper Use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, application, design, specification or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Products; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

12. Cancellations and Changes. Buyer may not cancel or modify or cancel any order for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change Product features, specifications, designs and availability.

13. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

14. Force Majeure. Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

15. Waiver and Severability. Failure to enforce any provision of this agreement will not invalidate that provision; nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate this agreement, in writing, if Buyer: (a) breaches any provision of this agreement (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

17. Governing Law. This agreement and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement.

18. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and refund the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller is not liable for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged. The terms contained herein may not be modified unless in writing and signed by an authorized representative of Seller.

20. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards of care, including those of the United Kingdom, the United States of America, and the country or countries in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act") and the U.S. Food Drug and Cosmetic Act ("FDCA"),each as currently amended, and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that it is familiar with the provisions of the U. K. Bribery Act, the FCPA, the FDA, and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller.

5/14

Contact your authorized Parker Fleet Distributor for ordering, catalogs and further information or visit www.parker.com for detailed information.

Link to Master Table of Contents | Link to Section Table of Contents

Parker's Industrial Segment — Global Technology Platforms

Motion Systems

Flow & Process Control

Filtration & Engineered Materials

Product Groups

Hydraulics

Key Markets
- Aerial lift
- Agriculture
- Air conditioning
- Construction machinery
- Entertainment
- Forestry
- Industrial machinery
- Machine tools
- Marine
- Material handling
- Mining
- Oil & gas
- Power generation
- Recreational vehicles
- Refuse vehicles
- Renewable energy
- Truck hydraulics
- Turf equipment

Key Products
- Accumulators
- Cartridge valves
- Coolers
- Electrohydraulic actuators
- Electronic displays & HMIs
- Electronic I/O controllers
- Fan drives
- Hybrid drives
- Hydraulic cylinders
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Hydrostatic steering
- Integrated hydraulic circuits
- Intensifiers
- Power take-offs
- Power units
- Rotary actuators
- Sensors
- Telematic controllers

Automation

Key Markets
- Automotive
- Conveyor & material handling
- Factory automation
- Fluid controls
- Food & beverage
- Industrial machinery
- Life sciences
- Machine tools
- Medical
- Mobile
- Oil & gas
- Packaging machinery
- Paper machinery
- Plastics machinery
- Primary metals
- Process
- Renewable energy
- Safety & security
- Semiconductor & electronics
- Transportation

Key Products
- AC/DC drives & systems
- Air preparation
- Diesel Emissions Products
- Electric actuators, gantry robots & slides
- Human machine interfaces
- Inverters
- Manifolds
- Miniature fluidics
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- Rotary actuators
- Solenoid valves
- Stepper motors, servo motors, drives & controls
- Structural extrusions
- Vacuum generators, cups & sensors
- Valves

Fluid Connectors

Key Markets
- Aerial lift
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Life sciences
- Marine
- Mining
- Mobile
- Oil & gas
- Renewable energy
- Transportation

Key Products
- Check valves
- Connectors for low pressure fluid conveyance
- Deep sea umbilicals
- Diagnostic equipment
- Hose couplings
- Industrial hose
- Mooring systems & power cables
- PTFE hose & tubing
- Quick couplings
- Rubber & thermoplastic hose
- Tube fittings & adapters
- Tubing & plastic fittings

Instrumentation

Key Markets
- Air conditioning
- Alternative fuels
- Biopharmaceuticals
- Chemical
- Food & beverage
- Industrial refrigeration
- Life sciences
- Microelectronics
- Mining
- Oil & gas
- Pharmaceuticals
- Power generation
- Precision cooling
- Refining
- Refrigeration
- Water/wastewater

Key Products
- Accumulators
- Analytical instruments & sample conditioning systems
- CNG dispensers
- CO2 controls
- Electronic controllers
- Electronic valves
- Filter driers
- Fluid system fittings, valves, regulators & manifold valves
- Fluid system mass flow meters/ controllers
- Fluoropolymer chemical delivery fittings, valves & pumps
- High pressure fittings, valves, pumps & systems
- High purity gas delivery fittings, valves, regulators
- Medical devices
- Natural gas on-board fuel systems
- Pressure regulating valves
- Refrigeration electronic controls & monitoring
- Safety relief valves
- Thermostatic & electronic expansion valves

Filtration

Key Markets
- Aerospace
- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile
- Oil & gas
- Power generation
- Renewable energy
- Transportation
- Water purification

Key Products
- Analytical gas generators
- Aviation fuel filters
- Compressed air & gas treatment solutions
- Engine fuel, oil, air & CCV filtration systems
- Fluid condition monitoring systems
- Hydraulic & lubrication filters
- Instrumentation filters
- Liquid, air and gas filters
- Membrane & fiber filters
- Nitrogen & hydrogen generators
- Sterile air filtration
- Water desalination and purification filters & systems

Engineered Materials*

Key Markets
- Aerospace
- Chemical processing
- Consumer
- Fluid power
- General industrial
- Information technology
- Life sciences
- Microelectronics
- Military
- Oil & gas
- Power generation
- Renewable energy
- Telecommunications
- Transportation

Key Products
- Dynamic seals
- Elastomeric o-rings
- Electro-medical instrument design & assembly
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- High temperature metal seals
- Homogeneous & inserted elastomeric shapes
- Medical device fabrication & assembly
- Metal & plastic retained composite seals
- Shielded optical windows
- Silicone tubing & extrusions
- Thermal management
- Vibration dampening

*The Engineered Materials Group was formerly known as the Seal Group.

Parker's Aerospace Systems Segment — Global Technology Platforms

Aerospace

Product Group

Aerospace

Key Markets
- Aftermarket services
- Business jets
- Commercial transports
- Engines
- General aviation
- Helicopters
- Military aircraft
- Missiles
- Power generation
- Regional transports
- Unmanned aerial vehicles

Key Products
- Control actuation systems & components
- Engine systems & components
- Fluid conveyance systems & components
- Fluid metering, delivery & atomization devices
- Fuel systems & components
- Fuel tank inerting systems
- Hydraulic systems & components
- Lubrication components
- Power conditioning & management systems
- Thermal management
- Wheels & brakes

© 2014 PARKER HANNIFIN CORPORATION

Parker Fluid Connectors Group
North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:
Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:
Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:
Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call toll free...

1-800-C-PARKER
(1-800-272-7537)

North American Divisions

Fluid System Connectors Division
Otsego, MI
phone 269 694 9411
fax 269 694 4614

Hose Products Division
Wickliffe, OH
phone 440 943 5700
fax 440 943 3129

Industrial Hose Division
Wickliffe, OH
phone 440 833 2120
fax 440 833 2230

Parflex Division
Ravenna, OH
phone 330 296 2871
fax 330 296 8433

Quick Coupling Division
Minneapolis, MN
phone 763 544 7781
fax 763 544 3418

Tube Fittings Division
Columbus, OH
phone 614 279 7070
fax 614 279 7685

Distribution Service Centers

Buena Park, CA
phone 714 522 8840
fax 714 994 1183

Conyers, GA
phone 770 929 0330
fax 770 929 0230

Louisville, KY
phone 502 937 1322
fax 502 937 4180

Portland, OR
phone 503 283 1020
fax 503 283 2201

Toledo, OH
phone 419 878 7000
fax 419 878 7001
fax 419 878 7420
(FCG Kit Operations)

Canada
Grimsby, ONT
phone 905 945 2274
fax 905 945 2203
(Contact Grimsby for other Service Center locations.)

© 2014 Parker Hannifin Corporation

Cat 3460 10M WPC 9/2014

Parker Hannifin Corporation
Fluid Connectors Group
6035 Parkland Blvd.
Cleveland, OH 44124
phone 216 896 3000
fax 216 896 4022
www.parker.com

Your Local Authorized Parker Distributor