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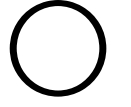

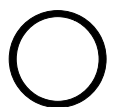
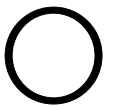
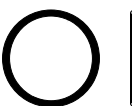
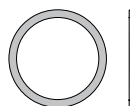
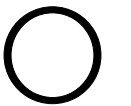
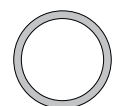
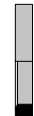
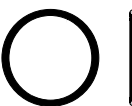




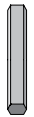



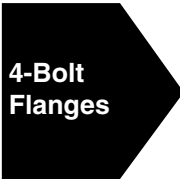
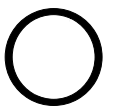

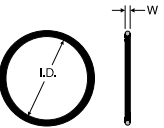
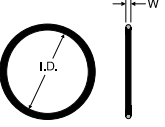


O-Rings and Seals

N



ENGINEERING YOUR SUCCESS.

 <p>O-Ring Face Seal</p>	<p>ORFS O-Ring</p>  <p>N4</p>	<p>XO O-Ring</p>  <p>N4</p>	 <p>Port Ends – SAE, Metric, BSPP, JIS, K4</p>	<p>SAE O-Ring</p>  <p>N4</p>	<p>ISO 6149 O-Ring</p>  <p>N5</p>
<p>Metric O-Ring</p>  <p>N5</p>	<p>Metric Retaining Ring</p>  <p>N5</p>	<p>BSPP O-Ring</p>  <p>N6</p>	<p>BSPP Retaining Ring</p>  <p>N6</p>	<p>EOlastic Seal Ring</p>  <p>N6</p>	<p>JIS B2351 O-Ring</p>  <p>N7</p>
<p>BSPP Bonded Seal</p>  <p>N7</p>	 <p>EO/EO-2</p>	<p>EO-2 Sealing Ring</p>  <p>N7</p>	<p>Bonded Seal for Banjo Fittings</p>  <p>N8</p>	<p>Metal Seal for Banjo Fittings</p>  <p>N8</p>	<p>Pressure Gauge Sealing Ring</p>  <p>N9</p>
<p>EO Swivel O-Ring</p>  <p>N9</p>	<p>EO O-Ring</p>  <p>N10</p>	 <p>4-Bolt Flanges</p>	<p>SAE 4-Bolt Flange O-Ring</p>  <p>N10</p>	 <p>Dual Seal Flanges</p>	<p>Radial Seal O-Ring</p>  <p>N10</p>
<p>Flange Seal O-Ring</p>  <p>N10</p>					

O-Ring Material Selection

Standard O-rings supplied with Parker tube fittings and adapters are 90 durometer hard nitrile (Buna-N). These O-rings are well suited for most industrial hydraulic and pneumatic systems. They have high extrusion resistance making them suitable for very high pressure static applications. Optional high temperature fluorocarbon, Parker compound #V0894, is also available for higher temperature specifications.

O-rings for other than normal hydraulic media or higher temperature applications can be selected from the following chart. The

chart should be used only as a general guide. Before making final selection for a given application, it is recommended that appropriate tests be conducted to assure compatibility with the fluid, temperature, pressure and other environmental conditions.

For fluids not shown in the chart, please contact the Tube Fittings Division.

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Polymer (Abbreviation)	Recommended for	Not Recommended for	Parker Compound No.	Color	SAE J515 Type	Hardness Shore "A"	Temperature Range (°F)	Comments
Nitrile-Butadiene (NBR)	Petroleum base oils and fluids, mineral oils, ethylene glycol base fluids, silicone and di-ester base lubricants, air, water under 150°F, and natural gas.	Phosphate ester base hydraulic fluids, automotive brake fluids, strong acids, ozone, freons, ketones, halogenated hydrocarbons, and methanol.	NBR	Black	CH ²⁾	90	-30° to 250° F	Standard from stock
			N0674	Black	—	70	-30° to 250° F	
			N0103	Black	—	70	-65° to 225° F	
			N1059	Black	CH ²⁾	90	-30° to 275° F	Low compression set
			N0507	Black	—	90	-65° to 180° F	Orange identification dot
			N0304	Black	—	75	-65° to 225° F	
N0508	Black	—	75	-35° to 250° F	Meets FDA requirements for food products			
			N0756	Black	—	75	-65° to 275° F	CNG applications. Standard from stock
Ethylene-Propylene (EPDM)	Phosphate ester base hydraulic fluids, hot water, steam to 400°F, silicone oils and greases, dilute acids and alkalis, ketones, alcohols and automotive brake fluids.	Petroleum base oils and di-ester base lubricants.	E0540	Black	CA ³⁾	80	-65° to 275° F	CO2 climate control systems. H2 fuel cells.
			E0893	Purple ¹⁾	CA ³⁾	80	-65° to 275° F	
			E0962	Black	—	90	-65° to 275° F	
Neoprene (CR)	Refrigerants (freons, ammonia), high aniline point petroleum oils, mild acids, and silicate ester lubricants.	Phosphate ester fluids and ketones.	C0873	Black	—	70	-45° to 250° F	
			C0944	Red ¹⁾	—	70	-45° to 250° F	
Fluorocarbon (FKM ⁵⁾ or FPM)	Petroleum base oils and fluids, some phosphate ester base fluids, silicone and silicate ester base lubricants, di-ester base lubricants, acids and halogenated hydrocarbons.	Ketones, skydrol fluids, amines (VDMH), anhydrous ammonia, low molecular weight esters and ethers, and hot hydrofluoric or chlorosulfonic acids.	V0747	Black	—	75	-15° to 400° F	Standard from stock.
			V0884	Brown ¹⁾	—	75	-15° to 400° F	
			V0894	Brown ¹⁾	HK ⁴⁾	90	-15° to 400° F	
Silicone (Si)	Dry heat (air to 400°F) and high aniline point oils.	Most petroleum fluids, ketones, water and steam.	S0604	Rust ¹⁾	—	70	-65° to 450° F	

Table U6 — O-Ring Selection

- 1) These Parker "Chromassure" color assurance O-rings are available from the Parker Hannifin O-Ring Division. They help eliminate assembly errors, reduce warranty costs and liability risks, and assure safety in aftermarket business.
- 2) Formerly SAE Type I.
- 3) Formerly SAE Type II.
- 4) Formerly SAE Type III.
- 5) "FKM" is the ASTM designation for fluorocarbon. Its ISO designation is "FPM".

Note: Use 90 durometer hard O-rings for applications with 1500 psi or higher pressures.

Dimensions for reference only, subject to change.



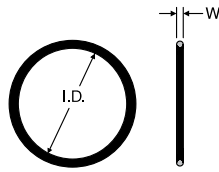
N

ORFS O-Ring

ORFS Tube End O-Ring

Specify size and compound

Example: 2-018 NBR (standard NBR)

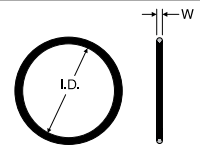


XO O-Ring

Triple-Lok 2 O-Ring

Specify size and compound

Example: 2-019 NBR (standard NBR)



TUBE FITTING PART #	FITTING DASH SIZE	END SIZE		I.D.		W		Material		
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	NBR*	FKM**	N0756***
2-011	4	1/4	6	0.30	7.7	0.07	1.78	•	•	•
2-012	6	3/8	8, 10	0.36	9.3	0.07	1.78	•	•	•
2-014	8	1/2	12	0.49	12.4	0.07	1.78	•	•	•
2-016	10	5/8	14, 15, 16	0.61	15.6	0.07	1.78	•	•	•
2-018	12	3/4	18, 20	0.74	18.8	0.07	1.78	•	•	•
2-020	14	7/8	22	0.86	21.8	0.07	1.78	•	•	•
2-021	16	1	25	0.93	23.5	0.07	1.78	•	•	•
2-025	20	1 1/4	28, 30, 32	1.18	29.9	0.07	1.78	•	•	•
2-029	24	1 1/2	35, 38	1.49	37.8	0.07	1.78	•	•	•
2-135	32	2	50	1.93	49.0	0.10	2.54	•	•	•

TUBE FITTING PART #	TUBE O.D. (in.)	I.D. (in.)	W (in.)	Material
				NBR
5-193	1/4	0.18	0.04	•
5-179	5/16	0.24	0.04	•
5-056	3/8	0.30	0.04	•
5-058	1/2	0.43	0.05	•
2-013	5/8	0.43	0.07	•
2-016	3/4	0.61	0.07	•
2-017	7/8	0.68	0.07	•
2-019	1	0.80	0.07	•
2-023	1 1/4	1.05	0.07	•
2-026	1 1/2	1.24	0.07	•
2-133	2	1.80	0.10	•

* NBR is the standard compound — 90-durometer Nitrile.

** FKM is an optional 90-durometer fluorocarbon compound.

*** N0756 is an optional 75-durometer Nitrile compound for CNG applications.

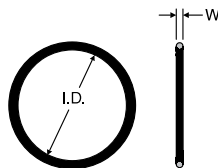
See page N3 for O-ring Material Selection and data.

SAE O-Ring

SAE Straight Thread Port O-Ring

Specify size and compound

Example: 3-906 NBR (standard NBR)



TUBE FITTING PART #	FITTING DASH SIZE	I.D. (in.)	W (in.)	Material		
				NBR*	FKM**	N0756***
3-902	2	0.24	0.06	•	•	
3-903	3	0.30	0.06	•	•	
3-904	4	0.35	0.07	•	•	•
3-905	5	0.41	0.07	•	•	
3-906	6	0.47	0.08	•	•	•
3-908	8	0.64	0.09	•	•	•
3-910	10	0.76	0.10	•	•	
3-912	12	0.92	0.12	•	•	
3-914	14	1.05	0.12	•	•	
3-916	16	1.17	0.12	•	•	
3-920	20	1.48	0.12	•	•	
3-924	24	1.72	0.12	•	•	
3-932	32	2.34	0.12	•	•	

* NBR is the standard compound — 90-durometer Nitrile.

** FKM is an optional 90-durometer fluorocarbon compound.

*** N0756 is an optional 75-durometer Nitrile compound for CNG applications.

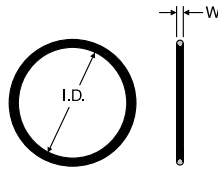
See page N3 for O-ring Material Selection and data.

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Dimensions for reference only, subject to change.

ISO 6149 O-Ring

Metric Straight Thread
Port O-Ring



Specify size and compound (for option compound only)
Example: M-12 ISO O-RING (standard NBR)
M-12 ISO VITON O-RING (optional FKM)

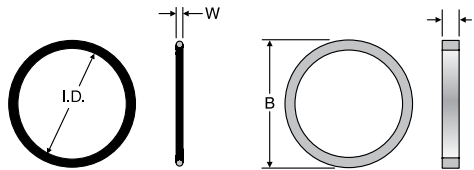


TUBE FITTING PART #	PORT THREAD	I.D. (mm)	W (mm)	Material	
				NBR**	FKM***
M-8 ISO O-Ring	M8 x 1	6.1	1.6	•	
M-10 ISO O-Ring	M10 x 1	8.1	1.6	•	
M-12 ISO O-Ring	M12 x 1.5	9.3	2.2	•	•
M-14 ISO O-Ring	M14 x 1.5	11.3	2.2	•	•
M-16 ISO O-Ring	M16 x 1.5	13.3	2.2	•	•
M-18 ISO O-Ring	M18 x 1.5	15.3	2.2	•	•
M-22 ISO O-Ring	M22 x 1.5	19.3	2.2	•	•
M-27 ISO O-Ring	M27 x 2	23.6	2.9	•	•
*M-30 ISO O-Ring	M30 x 2	26.6	2.9	•	
M-33 ISO O-Ring	M33 x 2	29.6	2.9	•	•
M-38 ISO O-Ring	M38 x 2	34.6	2.9	•	
M-42 ISO O-Ring	M42 x 2	38.6	2.9	•	•
M-48 ISO O-Ring	M48 x 2	44.6	2.9	•	•
M-60 ISO O-Ring	M60 x 2	56.6	2.9	•	

* M30X2 is not a standard ISO 6149 size.
** NBR is the standard compound — 90-durometer peroxide-cured Nitrile.
*** FKM is an optional 90-durometer fluorocarbon compound (for part number, VITON is used eg. M-8 ISO VITON O-RING).
See page N3 for O-ring Material Selection and data.

Metric O-Ring & Retaining Ring

For ISO 9974-1 / DIN 3852-1Port



Specify size and compound
Example: 2-012 NBR (standard NBR O-ring)
M12RRCF (standard steel retaining ring)



TUBE FITTING PART #	METRIC THREAD SIZE	I.D. (mm)	W (mm)	From Stock		TUBE FITTING PART #	B (mm)	L (mm)	Material	
				NBR*	FKM**				CF	71
3-902	M8 x 1	6.07	1.63	•	•	M8RR	13.15	1.00	•	
6-074	M10 x 1	8.00	1.50	•	•	M10RR	14.75	1.00	•	
2-012	M12 x 1.5	9.25	1.78	•	•	M12RR	17.75	1.30	•	
2-013	M14 x 1.5	10.82	1.78	•	•	M14RR	19.75	1.30	•	
3-907	M16 x 1.5	13.46	2.08	•	•	M16RR	21.75	1.50	•	
2-114	M18 x 1.5	15.54	2.62	•	•	M18RR	23.75	2.00	•	
2-017	M20 x 1.5	17.17	1.78	•		M20RR	25.75	1.30	•	
2-018	M22 x 1.5	18.77	1.78	•	•	M22RR	27.75	1.30	•	
2-019	M24 x 1.5	20.35	1.78	•		M24RR	29.75	1.30	•	
2-118	M26 x 1.5	21.89	2.62	•		M26RR	31.75	2.00	•	
2-119	M27 x 2	23.47	2.62	•	•	M27RR	32.75	2.00	•	
2-121	M30 x 2	26.64	2.62	•		M30RR	36.32	2.00	•	
2-122	M33 x 2	28.24	2.62	•		M33RR	39.75	2.00	•	
2-124	M36 x 2	31.42	2.62	•		M36RR	42.75	2.00	•	
2-128	M42 x 2	37.77	2.62	•		M42RR	49.75	2.00	•	
2-130	M45 x 2	40.94	2.62	•		M45RR	52.75	2.00	•	
2-132	M48 x 2	44.12	2.62	•		M48RR	54.95	2.00	•	
2-133	M50 x 2	45.69	2.62	•		M50RR	56.31	2.00	•	

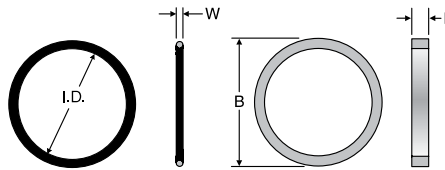
* NBR is the standard compound — 90-durometer Nitrile.
** FKM is an optional 90-durometer fluorocarbon compound.
See page N3 for O-ring Material Selection and data.

Dimensions for reference only, subject to change.



BSPP O-Ring & Retaining Ring

For ISO 1179-1 / DIN 3852-2 Port



Specify size and compound (for O-ring only)
 Example: 2-113 NBR (standard NBR O-ring)
 3/8 RETAINING RING (standard steel retaining ring)

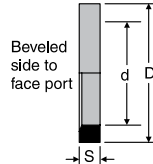


TUBE FITTING PART #	BSPP THREAD SIZE	I.D. (mm)	W (mm)	Material		TUBE FITTING PART #	B (mm)	L (mm)	Material	
				NBR*	FKM**				S	SS
OR8X2X	1/8-28	8	2	•	•	1/8 Retaining Ring	15.0	1.4	•	
2-111	1/4-19	10.77	2.62	•	•	1/4 Retaining Ring	19.5	1.9	•	
2-113	3/8-19	13.94	2.62	•	•	3/8 Retaining Ring	23.5	1.9	•	
5-256	1/2-14	17.96	2.62	•	•	1/2 Retaining Ring	28.5	1.9	•	
2-119	3/4-14	23.47	2.62	•	•	3/4 Retaining Ring	34.5	2.6	•	
2-217	1-11	29.74	3.53	•	•	1 Retaining Ring	43.5	2.6	•	
2-222	1 1/4-11	37.69	3.53	•		1 1/4 Retaining Ring	52.5	2.6	•	
2-224	1 1/2-11	44.04	3.53	•		1 1/2 Retaining Ring	60.0	2.6	•	
2-227	2-11	53.57	3.53			2 Retaining Ring	75.0	2.6		

* NBR is the standard compound — 90-durometer Nitrile.
 ** FKM is an optional 90-durometer fluorocarbon compound.
 See page N3 for O-ring Material Selection and data.

EOlastic Seal Ring

EOlastic Soft Seal for BSPP & Metric Threads (“ED Seal”) DIN 3869



Specify size and compound (for optional compound only)
 Example: ED8X1X (standard NBR)
 ED8X1VITX (optional FPM)

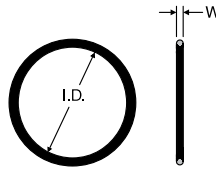
TUBE FITTING PART #	For Male Metric Thread	For Male Thread BSPP	D (mm)	d (mm)	S (mm)	Material	
						NBR*	FKM**
ED8X1X	M8 x 1		9.9	6.5	1.0	•	•
ED10X1X	M10 x 1	G 1/8 A	11.9	8.4	1.0	•	•
ED12X1.5X	M12 x 1.5		14.4	9.8	1.5	•	•
ED14X1.5X	M14 x 1.5	G 1/4 A	16.5	11.6	1.5	•	•
ED16X1.5X	M16 x 1.5		18.9	13.8	1.5	•	•
ED3/8X		G 3/8 A	18.9	14.7	1.5	•	•
ED18X1.5X	M18 x 1.5		20.9	15.7	1.5	•	•
ED20X1.5X	M20 x 1.5		22.9	17.8	1.5	•	•
ED1/2X		G 1/2 A	23.9	18.5	1.5	•	•
ED22X1.5X	M22 x 1.5		24.3	19.6	1.5	•	•
ED26X1.5X	M26 x 1.5	G 3/4 A	29.2	23.9	1.5	•	•
ED26X1.5X	M27 x 2	G 3/4 A	29.2	23.9	1.5	•	•
ED33X2X	M33 x 2	G 1 A	35.7	29.7	2.0	•	•
ED42X2X	M42 x 2	G 1 1/4 A	45.8	38.8	2.0	•	•
ED48X2X	M48 x 2	G 1 1/2 A	50.7	44.7	2.0	•	•

* NBR is the standard compound — 90-durometer Nitrile.
 ** FKM is an optional 85-durometer fluorocarbon compound (for part number VIT is used as suffix). Example: ED8X1VITX

Dimensions for reference only, subject to change.



JIS B2351 O-Ring



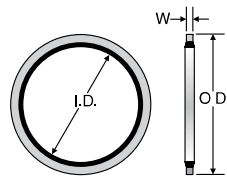
TUBE FITTING PART #	JIS DASH SIZE	T4 THREAD BSPP	I.D. (mm)	W (mm)	JIS B 2401 Description
P8 O-RING	2	1/8-28	7.8	1.9	O-RING CLASS 1 B P 8
P11 O-RING	4	1/4-19	10.8	2.4	O-RING CLASS 1 B P 11
P14 O-RING	6	3/8-19	13.8	2.4	O-RING CLASS 1 B P 14
P18 O-RING	8	1/2-14	17.8	2.4	O-RING CLASS 1 B P 18
P24 O-RING	12	3/4-14	23.7	3.5	O-RING CLASS 1 B P 24
P29 O-RING	16	1-11	28.7	3.5	O-RING CLASS 1 B P 29

* NBR is the standard compound — 90-durometer Nitrile.

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BSPP Bonded Seal

Used on K4 Style Straight Fittings as a Port Seal
For use with ISO 1179 / DIN 3852-2 port



TUBE FITTING PART #	BSPP THREAD SIZE	O.D. (mm)	I.D. (mm)	W (mm)	Material		
					S*	SS	B
D9DT-2	1/8-28	15.9	10.4	2.0	•		
D9DT-4	1/4-19	20.6	13.7	2.0	•		
D9DT-6	3/8-19	23.8	17.3	2.0	•		
D9DT-8	1/2-14	28.6	21.5	2.3	•		
D9DT-10	5/8-14	31.8	23.5	2.3	•		
D9DT-12	3/4-14	34.9	27.1	2.3	•		
D9DT-16	1-11	42.8	33.9	2.3	•		
D9DT-20	1 1/4-11	52.4	42.9	3.3	•		
D9DT-24	1 1/2-11	58.6	48.4	3.3	•		

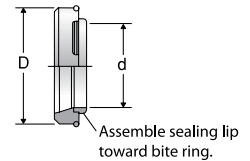
* NBR is the standard elastomer compound — 90-durometer Nitrile
Zinc plated steel ring

EO-2 Sealing Ring

Specify size and material

Examples:

- DOZ10S (standard steel with NBR)
- DOZ10SVIT (standard steel with FKM)
- DOZ10S71 (standard stainless steel with FKM)



TUBE FITTING PART #	SERIES	TUBE O.D. (mm)	D (mm)	d (mm)	Material		
					S	SS	
DOZ04LL	LL	4	6.8	4	•		
DOZ06LL	very light	6	8.8	6	•		
DOZ06L	L	6	10.3	6	•	•	•
DOZ08L	light	8	12.3	8	•	•	•
DOZ10L		10	14.3	10	•	•	•
DOZ12L		12	16.3	12	•	•	•
DOZ15L		15	20.3	15	•	•	•
DOZ18L		18	24.3	18	•	•	•
DOZ22L		22	27.7	22	•	•	•
DOZ28L		28	33.7	28	•	•	•
DOZ35L		35	42.7	35	•	•	•
DOZ42L		42	49.7	42	•	•	•
DOZ06S	S	6	12.3	6	•	•	•
DOZ08S	heavy	8	14.3	8	•	•	•
DOZ10S		10	16.3	10	•	•	•
DOZ12S		12	18.3	12	•	•	•
DOZ14S		14	20.3	14	•	•	•
DOZ16S		16	22.3	16	•	•	•
DOZ20S		20	27.7	20	•	•	•
DOZ25S		25	33.7	25	•	•	•
DOZ30S		30	39.7	30	•	•	•
DOZ38S		38	49.7	38	•	•	•

* Steel black zinc plated with NBR 90-durometer Nitrile compound.

** Steel black zinc plated with FKM 90-durometer fluorocarbon compound.

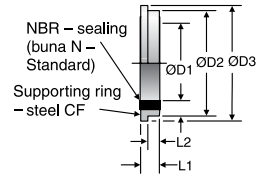
*** Stainless steel with FKM 90-durometer fluorocarbon compound.

Dimensions for reference only, subject to change.

Bonded Seal for Banjo Fittings

Specify size and material

- Examples: KDS 12X (standard steel with NBR)
- KDS 12VITX (standard steel with FKM)
- KDS 1271 (standard stainless steel with PTFE)

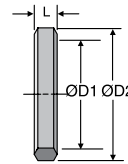


TUBE FITTING PART #	FOR USE WITH WH & TH BANJOS	THREAD	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	Material	
								CF	71
KDS10	6-LM/LR	M10 x 1/G1/8A	10.3	14.9	16.0	2.5	1.1	•	
KDS12	6-SM/8-LM	M12 x 1.5	12.3	17.0	18.0	3.0	1.6	•	
KDS14	6-SR, 8-LR/SM/SR, 10-LM/LR	M14 x 1.5/G1/4A	14.3	18.9	20.0	3.0	1.6	•	
KDS16	10-SM/SR, 12-LM/LR/SR	M16 x 1.5/G3/8A	17	21.9	24.0	3.0	2.1	•	
KDS18	12-SM/15-LM	M18 x 1.5	18.3	23.9	23.9	3.0	—	•	
KDS22	15-LR, 16-SM/SR, 18-LM/LR	M22 x 1.5/G1/2A	22.3	26.9	30.0	4.5	2.6	•	
KDS26	22-LM	M26 x 1.5	26.3	31.9	35.0	3.5	2.6	•	
KDS27	20-SM/SR, 22-LR	M27 x 2/G3/4A	27.3	32.9	38.0	3.5	2.6	•	
KDS33	25-SM/SR, 28-LM/LR	M33 x 2/G1A	33.6	39.9	42.0	3.5	2.6	•	
KDS42	30-SM/SR, 35-LM/LR	M42 x 2/G1 1/4A	42.4	49.9	49.9	3.5	—	•	
KDS48	38-SM/SR, 42-LM/LR	M48 x 2/G1 1/2A	48.4	55.9	60.0	3.5	2.6	•	

Metal Seal for Banjo Fittings

Specify size and material

- Examples: DKA1/8CFX (steel)
- DKA1/871X (stainless steel)

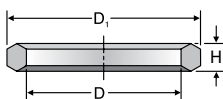


TUBE FITTING PART #	FOR APPLICATION IN BANJOS:				THREAD	D1 (mm)	D2 (mm)	L (mm)	Material	
	WH / TH		SWVE						CFX	71X
BSP										
DKA1/8	6LR		4/6/8 LLR	6LR	G 1/8 A	9.8	14	2.5	•	•
DKA1/4	8LR	6SR	8LR	6SR	G 1/4 A	13.3	18	3.0	•	•
DKA1/4	10LR	8SR	10LR	8SR	G 1/4 A	13.3	18	3.0	•	•
DKA3/8	12LR	10SR	12LR	10SR	G 3/8 A	16.8	22	3.0	•	•
DKA3/8		12SR		12SR	G 3/8 A	16.8	22	3.0	•	•
DKA1/2			15/18LR	14/16SR	G 1/2 A	21.1	26	3.0	•	•
DKA1/2X4.5	15LR	14SR			G 1/2 A	21.1	26	4.5	•	•
DKA1/2X4.5	18LR	16SR			G 1/2 A	21.1	26	4.5	•	•
DKA3/4	22LR	20SR	22LR	20SR	G 3/4 A	26.6	32	3.5	•	•
DKA1	28LR	25SR			G 1 A	33.4	39	3.5	•	•
DKA11/4	35LR	30SR			G 1 1/4 A	42.1	49	3.5	•	•
DKA11/2	42LR	38SR			G 1 1/2 A	48.1	55	3.5	•	•
Metric										
DKA10	6LM		6/8LLM	6LM	M10 x 1	10.1	14	2.5	•	•
DKA12	8LM	6SM	8LM	6SM	M12 x 1.5	12.1	17	3.0	•	•
DKA14	10LM	8SM	10LM	8SM	M14 x 1.5	14.1	19	3.0	•	•
DKA16	12LM	10SM	12LM	10SM	M16 x 1.5	16.1	21	3.0	•	•
DKA18	15LM	12SM	15LM	12SM	M18 x 1.5	18.1	23	3.0	•	•
DKA20		14SM		14SM	M20 x 1.5	20.1	25	3.0	•	•
DKA22		18LM		16SM	M22 x 1.5	22.1	27	3.0	•	•
DKA22X4.5	18LM	16SM			M22 x 1.5	22.1	27	4.5	•	•
DKA26			22LM		M26 x 1.5	26.1	31	3.0	•	•
DKA26X3.5	22LM				M26 x 1.5	26.1	31	3.5	•	•
DKA27		20SM		20SM	M27 x 2	27.1	32	3.5	•	•
DKA33	28LM	25SM			M33 x 2	33.1	39	3.5	•	•
DKA11/4	35LM	30SM			M42 x 2	42.1	49	3.5	•	•
DKA11/2	42LM	38SM			M48 x 2	48.1	55	3.5	•	•

Dimensions for reference only, subject to change.



Pressure Gauge Sealing Ring



Specify size and material

Examples: DK11/2CFX (steel)

DK11/271X (stainless steel)

TUBE FITTING PART #	FOR INTERNAL BSPP THREAD	D (mm)	D1 (mm)	H (mm)	Material		
					CFX	71	COPPER
DK11/4	G 1/4 - 19	6.0	11.3	4.5	•		
DK11/2	G 1/2 - 19	12.0	18.5	5.0	•	•	
M25180	G 1/4	6.4	11.0	1.6			•

EO Swivel O-Ring

O-ring for EO Swivel Nuts, Weld Nipples, and Caps

Part Numbers: RED, DA, GZ, GZR, EGE, EGEO, SKA, EW, ET, EL, VKA, MAVÉ



EO SIZE/SERIES	O-RING NBR*	D	H	O-RING FKM ²	D	H
6L	OR4.5X1.5X	4.5	1.5	OR4.5X1.5VITX	4.5	1.5
8L	OR6.5X1.5X	6.5	1.5	OR6.5X1.5VITX	6.5	1.5
10L	OR8.5X1.5X	8.5	1.5	OR8X1.5VITX	8.0	1.5
12L	OR10.5X1.5X	10.5	1.5	OR10X1.5VITX	10.0	1.5
15L	OR12.5X2X	12.5	2.0	OR12X2VITX	12.0	2.0
18L	OR16X2X	16.0	2.0	OR15X2VITX	15.0	2.0
22L	OR20X2X	20.0	2.0	OR20X2VITX	20.0	2.0
28L	OR26X2X	26.0	2.0	OR26X2VITX	26.0	2.0
35L	OR32X2.5X	32.0	2.5	OR32X2.5VITX	32.0	2.5
42L	OR39X2.5X	39.0	2.5	OR38X2.5VITX	38.0	2.5
6S	OR4.5X1.5X	4.5	1.5	OR4.5X1.5VITX	4.5	1.5
8S	OR6.5X1.5X	6.5	1.5	OR6.5X1.5VITX	6.5	1.5
10S	OR8.5X1.5X	8.5	1.5	OR8X1.5VITX	8.0	1.5
12S	OR10.5X1.5X	10.5	1.5	OR10X1.5VITX	10.0	1.5
14S	OR12X2X	12.0	2.0	OR12X2VITX	12.0	2.0
16S	OR14X2X	14.0	2.0	OR13X2VITX	13.0	2.0
20S	OR17X2.5X	17.0	2.5	OR16.3X2.4VITX	16.3	2.4
25S	OR22X2.5X	22.0	2.5	OR20.3X2.4VITX	20.3	2.4
30S	OR27X2.5X	27.0	2.5	OR25.3X2.4VITX	25.3	2.4
38S	OR35X2.5X	35.0	2.5	OR33.3X2.4VITX	33.3	2.4

*NBR is standard compound — 90-durometer Nitrile.

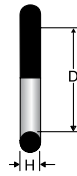
²FKM is optional 85-durometer Fluorocarbon compound.



Dimensions for reference only, subject to change.

EO O-Ring

O-ring for EO Banjo Fitting Bolts
Part Numbers: WH/TH



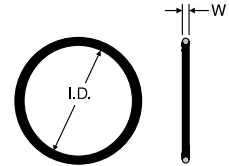
BANJO BOLT METRIC THREAD	BANJO BOLT BSPP THREAD	D	H	O-RING NBR*	O-RING FKM**
M10	G 1/8	9.3	1.5	OR9.3X1.5X	OR9.3X1.5VITX
M12, M14	G 1/4	12.5	1.5	OR12.5X1.5X	OR12.5X1.5VITX
M16	G 3/8	16.0	1.5	OR16X1.5X	OR16X1.5VITX
M18		18.0	1.5	OR18X1.5X	OR18X1.5VITX
M20, M22	G 1/2	20.0	1.5	OR20X1.5X	OR20X1.5VITX
M26, M27	G 3/4	25.0	2.0	OR25X2X	OR25X2VITX
M33	G 1	33.0	2.5	OR33X2.5X	OR33X2.5VITX
M42	G 1 1/4	41.0	2.5	OR41X2.5X	OR41X2.5VITX
M48	G 1 1/2	46.0	3.0	OR46X3X	OR46X3VITX

*NBR is standard compound — 90-durometer Nitrile.

**FKM is optional 85-durometer Fluorocarbon compound.

SAE 4-Bolt Flange O-Ring

Code 61 and Code 62 Flanges



Specify size and compound
Example: 2-210 NBR

TUBE FITTING PART #	HOSE PRODUCTS DIVISION PART # 1)	FITTING DASH SIZE	W (in.)	I.D. (in.)	Material NBR*
2-210	711510-6	8	0.139	0.734	•
2-214	711510-5	12	0.139	0.984	•
2-219	711510-4	16	0.139	1.296	•
2-222	711510-3	20	0.139	1.484	•
2-225	711510-2	24	0.139	1.859	•
2-228	711510-1	32	0.139	2.234	•
2-232	711510-7	40	0.139	2.734	•
2-237	711510-8	48	0.139	3.359	•
2-241		56	0.139	3.859	•
2-245		64	0.139	4.359	•
2-253		80	0.139	5.359	•

*NBR is the standard compound — 90-durometer Nitrile.



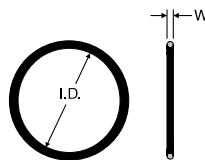
O-ring for DIN 2353 EO Gear Pump Flange Adapters
Part Numbers: BFG/BFW

FLANGE SERIES "LK"	D	H	O-RING NBR*
LK35	20.0	2.5	OR20X2.5X
LK40	26.0	2.5	OR26X2.5X
LK55	33.0	2.5	OR33X2.5X

*NBR is standard compound — 90-durometer Nitrile.

Radial Seal O-Ring

Dual Seal Port O-Ring

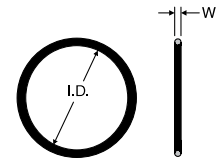


TUBE FITTING PART #	END SIZE	W (in.)	I.D. (in.)
	2 DUAL SEAL		
2-113	1/2	0.103	0.549
2-123	1	0.103	1.174
2-129	1 1/2	0.103	1.549

Standard O-ring compound - 90 durometer NBR. Ordering example with material: 2-113 NBR.

Flange Seal O-Ring

Dual Seal Flange Head O-Ring



TUBE FITTING PART #	END SIZE	W (in.)	I.D. (in.)
	2 DUAL SEAL		
2-022	1/2	0.070	0.989
2-129	1	0.103	1.549
2-136	1 1/2	0.103	1.987

Standard O-ring compound - 90 durometer NBR.

Dimensions for reference only, subject to change.