

Metric Fitting Expansion

4300 Catalog Supplement September 2015

aerospace
climate control
electromechan
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shield



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 **WARNING**

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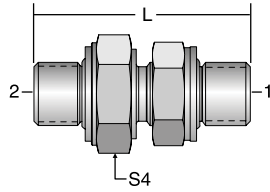
The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale."

F80HA80

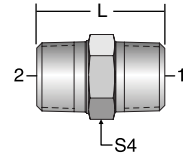
Metric Union
Metric-ORR / Metric-ORR
(for ISO 9974 / DIN 3852-1 Port)



TUBE FITTING PART #	End Size		S4 Hex (mm)	L (mm)	Dynamic Pressure (x 1,000 PSI)
	1 Metric Str	2 Metric Str			S
M10F80HA80	M10X1	M10X1	16	33.8	6.0
M12F80HA80	M12X1.5	M12X1.5	19	36.8	6.0
M14F80HA80	M14X1.5	M14X1.5	22	37.3	6.0
M16F80HA80	M16X1.5	M16X1.5	22	46.0	5.0
M18F80HA80	M18X1.5	M18X1.5	27	48.8	5.0
M20M18F80HA80	M20X1.5	M18X1.5	27	49.8	4.0
M22F80HA80	M22X1.5	M22X1.5	27	52.6	4.0
M27F80HA80	M27X2	M27X2	32	62.0	4.0
M33F80HA80	M33X2	M33X2	41	62.0	3.0

FHF3

Male Pipe Adapter
BSPT / NPTF

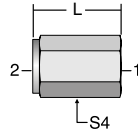


TUBE FITTING PART #	End Size		S4 Hex (in.)	L (in.)	Dynamic Pressure (x 1,000 PSI)
	1 NPTF	2 BSPT			-S
1/8 FHF3	1/8-27	1/8-28	7/16	1.09	6.0
1/4 FHF3	1/4-18	1/4-19	5/8	1.45	6.0
3/8 x 1/4 FHF3	3/8-18	1/4-19	3/4	1.45	6.0
1/4 x 3/8 FHF3	1/4-18	1/8-28	3/4	1.45	6.0
3/8 FHF3	3/8-18	3/8-19	3/4	1.45	6.0
1/2 FHF3	1/2-14	1/2-14	7/8	1.89	6.0
3/4 FHF3	3/4-14	3/4-14	1 1/8	1.96	5.5
1 FHF3	1-11	1-11	1 3/8	2.34	4.5

Note: The BSPT thread end has an identification collar.

GHG4

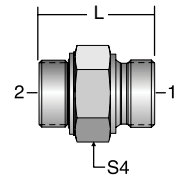
Female Pipe Adapter
BSPP / NPTF



TUBE FITTING PART #	End Size		S4 Hex (in.)	L (in.)	Dynamic Pressure (x 1,000 PSI)
	1 NPTF	2 BSPP			-S
1/4 GHG4	1/4-18	1/4-19	3/4	1.23	6.0
3/8 GHG4	3/8-18	3/8-19	7/8	1.26	6.0
1/2 GHG4	1/2-14	1/2-14	1 1/8	1.50	5.0
3/4 GHG4	3/4-14	3/4-14	1 3/8	1.87	4.0
1 GHG4	1-11 1/2	1-11	1 5/8	2.17	3.0

K4HF80

Metric Male Connector
BSP 60° Cone / Metric-ORR
(for ISO 9974 / DIN 3852-1 Port)



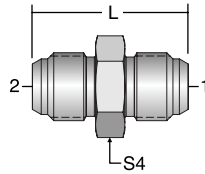
TUBE FITTING PART #	End Size		S4 Hex (mm)	L (mm)	Dynamic Pressure (x 1,000 PSI)
	1 BSPP	2 Metric Str			S
2M10K4HF80	1/8-28	M10X1	17	25.7	5.1
4M12K4HF80	1/4-19	M12X1.5	19	30.1	5.1
4M14K4HF80	1/4-19	M14X1.5	19	30.1	5.1
6M16K4HF80	3/8-19	M16X1.5	22	32.6	5.1
8M16K4HF80	1/2-14	M16X1.5	27	34.6	2.9
6M18K4HF80	3/8-19	M18X1.5	27	34.1	2.9
8M18K4HF80	1/2-14	M18X1.5	27	33.1	2.9
8M22K4HF80	1/2-14	M22X1.5	32	40.4	2.9
12M27K4HF80	3/4-14	M27X2	41	47.9	2.9
16M33K4HF80	1-11	M33X2	41	56.7	1.7

Dimensions and pressures for reference only, subject to change.



HT4

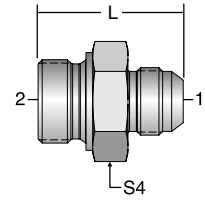
JIS Union Flare
30° Flare / 30° Flare



TUBE FITTING PART #	End Size		S4 Hex (in.)	L (in.)	Dynamic Pressure (x 1,000 PSI)
	1 BSPP	2 BSPP			-S
4 HT4	1/4-19	1/4-19	3/4	1.45	5.0
6 HT4	3/8-19	3/8-19	7/8	1.68	5.0
8 HT4	1/2-14	1/2-14	1 1/16	1.88	5.0
12 HT4	3/4-14	3/4-14	1 7/16	2.12	4.0
16 HT4	1-11	1-11	1 5/8	2.28	3.0

XHK4

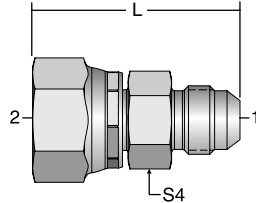
BSPP Swivel Adapter
37° Flare / 60° Cone



TUBE FITTING PART #	End Size		S4 Hex (in.)	L (in.)	Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 BSPP			-S
4-4 XHK4	1/4	1/4-19	3/4	1.25	5.1
6-4 XHK4	3/8	1/4-19	7/8	1.42	2.9
6-6 XHK4	3/8	3/8-19	7/8	1.46	2.9
8-6 XHK4	1/2	3/8-19	1 1/16	1.61	2.9
8-8 XHK4	1/2	1/2-14	1 1/16	1.69	2.9
10-8 XHK4	5/8	1/2-14	1 1/8	1.89	2.9
12-12 XHK4	3/4	3/4-14	1 5/16	2.13	2.9
12-16XHK4	3/4	1-11	1 5/8	2.27	1.7
16-16 XHK4	1	1-11	1 5/8	2.32	1.7

XHT46

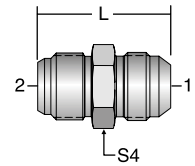
BSPP Swivel Adapter
37° Flare / 30° Flare Swivel



TUBE FITTING PART #	End Size		S4 Hex (in.)	L (in.)	Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 BSPP			-S
4 XHT46	1/4	1/4-19	9/16	1.22	5.0
6 XHT46	3/8	3/8-19	11/16	1.32	5.0
8 XHT46	1/2	1/2-14	7/8	1.46	5.0
12 XHT46	3/4	3/4-14	1 1/4	1.92	4.0
16 XHT46	1	1-11	1 1/2	2.05	3.0

XHT4

Union Adapter
37° Flare / JIS 30° Flare

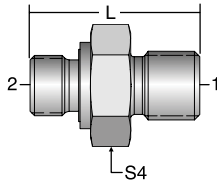


TUBE FITTING PART #	End Size		S4 Hex (in.)	L (in.)	Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 BSPP			-S
4-4 XHT4	1/4	1/4-19	3/4	1.42	5.0
6 XHT4	3/8	3/8-19	3/4	1.55	5.0
8 XHT4	1/2	1/2-14	7/8	1.75	5.0
12 XHT4	3/4	3/4-14	1 1/8	2.06	4.0
16 XHT4	1	1-11	1 3/8	2.17	3.0

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F50HF42

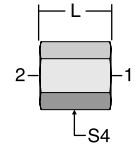
Conversion Adapter
SAE-ORB / BSPP-ED



TUBE FITTING PART #	End Size		S4 Hex (mm)	L (mm)	Dynamic Pressure (x 1,000 PSI)	
	1	2			S	
	UN/UNF-2A	BSPP				
4-1/8F50HF42ED	7/16-20	1/8-28	17	27.2	9.2	
4-1/4F50HF42ED	7/16-20	1/4-19	19	31.8	9.2	
5-1/4F50HF42ED	1/2-20	1/4-19	19	31.4	9.2	
6-1/4F50HF42ED	9/16-18	1/4-19	19	32.0	9.2	
6-3/8F50HF42ED	9/16-18	3/8-19	22	32.5	9.2	
8-1/4F50HF42ED	3/4-16	1/4-19	22	34.9	9.2	
8-3/8F50HF42ED	3/4-16	3/8-19	22	36.5	9.2	
8-1/2F50HF42ED	3/4-16	1/2-14	27	40.0	6.0	
10-1/2F50HF42ED	7/8-14	1/2-14	27	42.0	6.0	
12-1/2F50HF42ED	1 1/16-12	1/2-14	32	45.0	6.0	
12-3/4F50HF42ED	1 1/16-12	3/4-14	32	47.0	6.0	
16-3/4F50HF42ED	1 5/16-12	3/4-14	38	48.0	6.0	
16-1F50HF42ED	1 5/16-12	1-11	41	51.0	6.0	
20-11/4F50HF42ED	1 5/8-12	1 1/4-11	50	54.0	6.0	
24-11/2F50HF42ED	1 7/8-12	1 1/2-11	55	56.0	5.0	

G8HG8

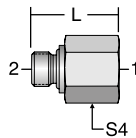
Metric Female Union
Metric-ORR / Metric-ORR
(for ISO 9974 / DIN 3852-1 Port)



TUBE FITTING PART #	End Size		S4 Hex (mm)	L (mm)	Dynamic Pressure (x 1,000 PSI)	
	1	2			S	
	Metric Str	Metric Str				
M10G8HG8	M10X1	M10X1	17	19	6.0	
M14G8HG8	M14X1.5	M14X1.5	22	28	6.0	
M16G8HG8	M16X1.5	M16X1.5	24	29	6.0	
M18G8HG8	M18X1.5	M18X1.5	27	29	6.0	
M20G8HG8	M20X1.5	M20X1.5	32	32	5.0	
M27G8HG8	M27X2	M27X2	38	38	5.0	
M33G8HG8	M33X2	M33X2	46	44	5.0	

F82HG8

Conversion Adapter
Metric-ED / Metric-ORR
(for ISO 9974 / DIN 3852-1 Port)



TUBE FITTING PART #	End Size		S4 Hex (mm)	L (mm)	Dynamic Pressure (x 1,000 PSI)	
	1	2			S	
	Metric Str	Metric Str				
M10-M8F82EDHG8	M10X1	M8X1	17	21.3	5.0	
M10-M12F82EDHG8	M10X1	M12X1.5	17	27.4	5.0	
M12-M10F82EDHG8	M12X1.5	M10X1	19	31.8	5.0	
M12-M14F82EDHG8	M12X1.5	M15X1.5	19	32.8	5.0	
M12-M16F82EDHG8	M12X1.5	M16X1.5	22	33.5	5.0	
M14-M12F82EDHG8	M14X1.5	M12X1.5	22	32.3	5.0	
M14-M16F82EDHG8	M14X1.5	M16X1.5	22	33.3	5.0	
M16-M14F82EDHG8	M16X1.5	M14X1.5	24	32.3	5.0	
M16-M18F82EDHG8	M16X1.5	M18X1.5	24	33.5	5.0	
M18-M16F82EDHG8	M18X1.5	M16X1.5	27	32.8	3.4	
M18-M20F82EDHG8	M18X1.5	M20X1.5	27	36.1	3.4	
M22-M20F82EDHG8	M22X1.5	M20X1.5	30	36.8	3.4	

Dimensions and pressures for reference only, subject to change.



Offer of Sale

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10. **Buyer's Obligation; Rights of Seller.** To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed 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.
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15. **Waiver and Severability.** Failure to enforce any provision of this agreement will not waive 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 written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appointments 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 by a third party (d) makes an assignment for the benefit of creditors, or (e) dissolves or liquidates all or a majority of its assets.
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Dimensions and pressures for reference only, subject to change.



Offer of Sale

- 18. Indemnity for Infringement of Intellectual Property Rights.** Seller shall have no liability 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 return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability 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 shall 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.
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Dimensions and pressures for reference only, subject to change.



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North American Divisions & Distribution Service Centers

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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

Strongsville, OH
phone 440 268 2120
fax 440 268 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

Lakeville, MN

phone 952 469 5000
fax 952 469 5729

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 3945
(Contact Grimsby for other Service Center locations.)



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