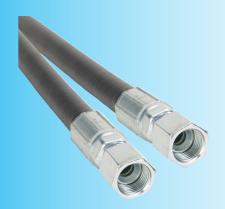


oyal PROFLEX™ Hydraulic Hoses





Part No. 1/2PFX-24IN-FJXEE

Overview

Gates ProFlex hydraulic hose assemblies are lighter and more flexible than many hoses in the industry. Thousands of industrial facilities, global operations and OE manufacturers choose Gates ProFlex hose.

- · Synthetic black rubber
- Reinforced braided steel wire
- Qualified for 200,000 cycles impulse life with MEGACRIMP, PCK, GB (-8, -12 & -16) couplings

		ProFlex	Hydraulic Hoses Sel	ection		
Part No.	I.D. in (mm)	O.D. in (mm)	Assembly Length (ft)	Weight (lbs)	Price	
1/4PFX-24IN-FJXEE				2	0.60	\$29.00
1/4PFX-48IN-FJXEE				4	0.96	\$33.00
1/4PFX-72IN-FJXEE	1/4 (6.3)	0.52 (13.2)	(2) -4 female straight JIC 37° fittings	6	1.31	\$37.00
1/4PFX-96IN-FJXEE			90	8	1.67	\$42.00
<u>1/4PFX-120IN-FJXEE</u>				10	2.02	\$46.00
3/8PFX-24IN-FJXEE	3/8 (9.5)	0.65 (16.5) (2) -6 female straight JIC 37° fittings	2	0.86	\$33.00	
3/8PFX-48IN-FJXEE			\	4	1.34	\$39.00
3/8PFX-72IN-FJXEE				6	1.82	\$44.00
3/8PFX-96IN-FJXEE				8	2.30	\$50.00
3/8PFX-120IN-FJXEE				10	2.79	\$55.00
1/2PFX-24IN-FJXEE				2	1.26	\$42.00
1/2PFX-48IN-FJXEE			(2) -8 female straight JIC 37° fittings	4	1.91	\$49.00
1/2PFX-72IN-FJXEE	1/2 (12.7)	0.81 (20.5)		6	2.62	\$55.00
1/2PFX-96IN-FJXEE				8	3.16	\$61.00
<u>1/2PFX-120IN-FJXEE</u>				10	3.87	\$68.00
3/4PFX-24IN-FJXEE				2	2.18	\$81.00
3/4PFX-48IN-FJXEE			[4	3.24	\$91.00
3/4PFX-72IN-FJXEE	3/4 (19.0)	1.08 (27.4)	(2) -12 female straight JIC 37° fittings	6	4.20	\$102.00
3/4PFX-96IN-FJXEE			9-	8	5.32	\$113.00
<u>3/4PFX-120IN-FJXEE</u>				10	7.74	\$124.00

ProFlex Hydraulic Hose Specifications							
Hose Size	DIN (Ref)	Working Pressure PSI (MPa)	Burst Pressure PSI (MPa)	Min. Bend Radius in (mm)			
-4	6	5,800 (39.9)	23,000 (160.0)	1.9 (48.2)			
-6	10	4,800 (33.1)	19,200 (132.4)	2.5 (64.0)			
-8	12	4,000 (27.6)	16,000 (110.3)	3.5 (88.9)			
-12	19	3,125 (21.5)	12,500 (86.2)	4.7 (119.3)			



Hydraulic Hoses - Overview



Gates hoses and fittings are some of the best in the industry. Royal Brass and Hose is a leading manufacturer of Gates hose assemblies in the USA. AutomationDirect.com offers both the ProFlex™ and MXT™ lines of hoses, both with Gates Megacrimp fittings. Adapters are nickel-plated steel and come in straight or 90° elbows. JIC, o-ring boss and o-ring face connection styles are available.

Features

- Hose diameters from 1/4 inch (-4 size) to 3/4 inch (-12 size)
- Assembly lengths from 2 feet to 10 feet
- Straight female JIC swivel fittings on both ends
- Meets or exceeds SAE 100R2/EN 857 2SC/EN 853 2SN, SAE 100R16, SAE 100R17
- ProFlex tested to 200,000 cycles
- MXT tested to 600,000 cycles
- All Requirements as per SAE J514 & 6149-3

Straight Fittings Each End Hose Assembly Length PRIVEN BY POSSIBILITY PRIVEN BY POSSIBILITY





Applications

- Manufacturing
- Construction
- · Machine tools
- Mining
- Machinery
- Agriculture

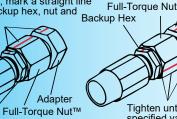
SAE Thread Identification								
Fitting Size	Dash Size	Thread Size						
SAE 4	-04	7/16-20						
SAE 5	-05	1/2-20						
SAE 6	-06	9/16-18						
SAE 8	-08	3/4-16						
SAE 10	-10	7/8-14						
SAE 12	-12	1 1/16-12						

Flats Method Installation							
Termination Type	Dash Size 1/16 in	Flats					
	-04	1.5 - 1.75					
	-06	1.0 - 1.5					
JIC	-08	1.5 - 1.75					
	-10	1.0 - 1.5					
	-12	1.0 - 1.5					

Fitting and Adapter Installation: Flats Method

Once hand-tight, mark a straight line between the backup hex, nut and adapter hex

Backup Hex



Tighten until marks are misaligned by the specified values; this example is two flats. The backup hex mark should align with the adapter mark.

Adapter

NOTE:

- Seal faces must be in contact and the fitting fully handtightened before marking flats
- Flats method is the most accurate for the first assembly cycle; for multiple disassembly/assembly cycles, torque values are more reliable
- Tightening two flats or more is equivalent to severe over-torque and may damage seal faces

Dash Size	JIC 37 ⁰	(Steel)	Flat Face O-Ring Seal (Steel)		teel) SAE O-Ring Boss (Steel) & Gates Adapterless ≤		
1/16 in	LB	-FT	LB-FT		LB-FT		
1/16 in	Min	Max	Min	Мах	Min Max		
-04	11	14	18	23	13	17	
-06	18	22	29	37	22	28	
-08	36	45	41	51	37	46	
-10	57	71	44	55	44	55	
-12	79	99	66	83	70	88	





Part No. 8MJ-6MB

Overview

Hydraulic threaded adapters are used to connect hoses to valves, actuators or manifolds.

- Plated steel body
- All Requirements as per SAE J514 & 6149-3

	HY-TECH Hydra	ulic JIC to O-ring E	Boss Stra	ight Adap	ters Sele	ction	
Part No.	Connection 1 (Male JIC)	Connection 2 (Male O-ring boss)	Мах. Тетр.	Max. Pressure	Qty./pack	Weight (lbs)	Price
<u>4MJ-4MB</u>		-4			2	0.10	\$3.75
<u>4MJ-6MB</u>	-4	-6			2	0.14	\$4.75
<u>4MJ-8MB</u>		-8			2	0.23	\$6.50
<u>6MJ-4MB</u>		-4		5,000 psi	2	0.12	\$4.50
<u>6MJ-6MB</u>	-6	-6			2	0.14	\$4.25
<u>6MJ-8MB</u>	-0	-8			2	0.24	\$6.25
<u>6MJ-10MB</u>		-10			2	0.36	\$8.50
<u>8MJ-6MB</u>		-6		4,500 psi	2	0.22	\$6.00
<u>8MJ-8MB</u>	-8	-8	212°F (100°C)		2	0.27	\$6.50
<u>8MJ-10MB</u>	-0	-10			2	0.36	\$8.75
<u>8MJ-12MB</u>		-12			2	0.60	\$11.00
<u>10MJ-8MB</u>	-10	-8			2	0.38	\$8.50
<u>10MJ-10MB</u>	-10	-10			2	0.40	\$9.00
<u>12MJ-8MB</u>		-8		2 F00 noi	2	0.60	\$12.00
<u>12MJ-10MB</u>	-12	-10		3,500 psi	2	0.56	\$12.00
<u>12MJ-12MB</u>	-12	-12			2	0.67	\$12.00
<u>12MJ-16MB</u>		-16			2	0.93	\$19.00





Part No. 8MJ-6MB90

Overview

Hydraulic threaded adapters are used to connect hoses to valves, actuators or manifolds.

- Plated steel body
- All Requirements as per SAE J514 & 6149-3

	HY-TECH Hydraulio	JIC to O-ring Boss	Elbow	Adapter	s Selecti	on	
Part No.	Connection 1 (Male JIC)	Connection 2 (Male O-ring boss)	Max. Temp.	Max. Pressure	Qty./pack	Weight (lbs)	Price
<u>4MJ-4MB90</u>		-4			2	0.14	\$8.25
<u>4MJ-6MB90</u>	-4	-6			2	0.24	\$9.25
<u>4MJ-8MB90</u>		-8			2	0.45	\$14.50
<u>6MJ-4MB90</u>		-4		5,000 psi	2	0.23	\$10.00
<u>6MJ-6MB90</u>	-6	-6			2	0.23	\$8.00
<u>6MJ-8MB90</u>	-6	-8			2	0.45	\$12.50
<u>6MJ-10MB90</u>		-10			2	0.68	\$18.00
<u>8MJ-6MB90</u>		-6		4,500 psi	2	0.41	\$11.50
<u>8MJ-8MB90</u>	-8	-8	212°F (100°C)		2	0.48	\$13.00
<u>8MJ-10MB90</u>	-0	-10			2	0.72	\$16.00
<u>8MJ-12MB90</u>		-12			2	1.16	\$24.50
<u>10MJ-8MB90</u>		-8			2	0.66	\$17.00
<u>10MJ-10MB90</u>	-10	-10			2	0.75	\$17.00
<u>10MJ-12MB90</u>		-12		2 500:	2	1.19	\$28.00
<u>12MJ-8MB90</u>		-8		3,500 psi	2	1.02	\$32.50
<u>12MJ-10MB90</u>	-12	-10			2	1.07	\$24.50
<u>12MJ-12MB90</u>		-12			2	1.21	\$22.50





Part No. 8MJ-8FJX90

Overview

Hydraulic threaded adapters are used to connect hoses to valves, actuators or manifolds.

- Plated steel body
- All Requirements as per SAE J514 & 6149-3

	HY-TECH Hydraulic Elbow JIC to JIC Adapters Selection									
Part No.	Connection 1 (Male JIC)	Connection 2 (Female JIC)	Max. Temp.	Max. Pressure	Qty./pack	Weight (lbs)	Price			
<u>4MJ-4FJX90</u>	-4	-4	250°F (121.1°C)		E 000 noi	2	0.14	\$9.50		
<u>6MJ-6FJX90</u>	-6	-6			5,000 psi	2	0.23	\$11.00		
<u>8MJ-8FJX90</u>	-8	-8		4,500 psi	2	0.44	\$13.00			
<u>10MJ-10FJX90</u>	-10	-10			2 500 50	2	0.64	\$17.50		
<u>12MJ-12FJX90</u>	-12	-12		3,500 psi	2	1.05	\$26.50			





Part No. 8MB-6FB



Part No. 6MB-6FB90

Overview

Hydraulic threaded adapters are used to connect hoses to valves, actuators or manifolds.

- Plated steel body
- All Requirements as per SAE J514 & 6149-3



Part No. 8MJ-8FFORX

	HY-TECH Hydraulic O	-ring Boss Straight Red	lucer Ac	lapters S	Selection		
Part No.	Connection 1	Connection 2	Max. Temp.	Max. Pressure	Qty./pack	Weight (lbs)	Price
<u>8MB-4FB</u>		-4 female o-ring boss		6 000 pci	2	0.28	\$15.50
<u>8MB-6FB</u>	-8 male o-ring boss	-6 female o-ring boss		6,000 psi	2	0.26	\$7.50
<u>10MB-8FB</u>	-10 male o-ring boss	-8 female o-ring boss	212°F (100°C)	5,000 psi	2	0.41	\$9.00
<u>12MB-8FB</u>	40 mala a dan kara	-o leniale o-ning boss			2	0.42	\$14.50
<u>12MB-10FB</u>	-12 male o-ring boss	-10 female o-ring boss			2	0.63	\$15.00
	HY-TECH Hydrai	ulic O-ring Boss Elbow	Adaptei	s Select	ion		
4MB-4FB90	-4 male o-ring boss	-4 female o-ring boss	212°F	6,000 psi	2	0.30	\$17.50
6MB-6FB90	-6 male o-ring boss	-6 female o-ring boss	(100°C)		2	0.56	\$24.50
	HY-TECH Hydra	aulic JIC to Flat Face A	dapters	Selection	n		
6MJ-6FFORX	-6 male JIC 37 deg	-6 female flat face o-ring	212°F	6,000 psi	2	0.28	\$13.50
8MJ-8FFORX	-8 male JIC 37 deg	-8 female flat face o-ring	(100°C)	o,uuu psi	2	0.48	\$18.00