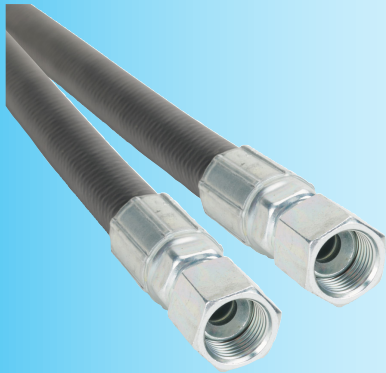




PROFLEX™ Hydraulic Hoses



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.

Features

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

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

ProFlex Hydraulic Hoses Selection

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



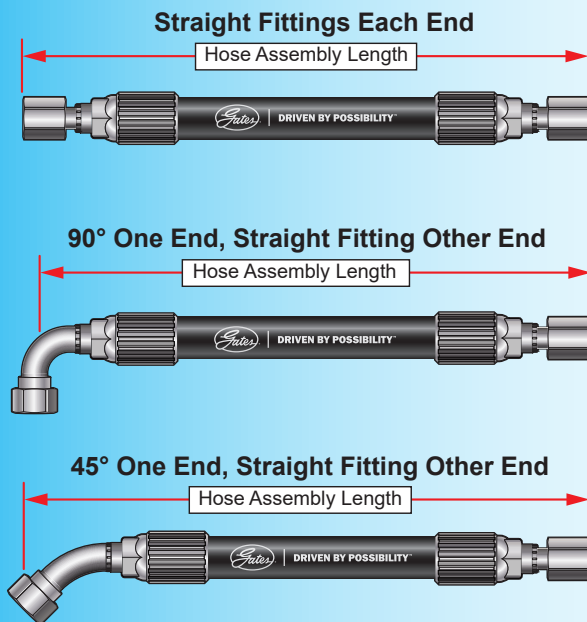
Gates hoses and fittings are some of the best in the industry. Royal Brass and Hose is a leading manufacturer of Gates hose assemblies in the USA. AutomationDirect.com offers both the ProFlex™ and MXT™ lines of hoses, both with Gates Megacrimp fittings. Adapters are nickel-plated steel and come in straight 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

Applications

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



SAE Thread Identification

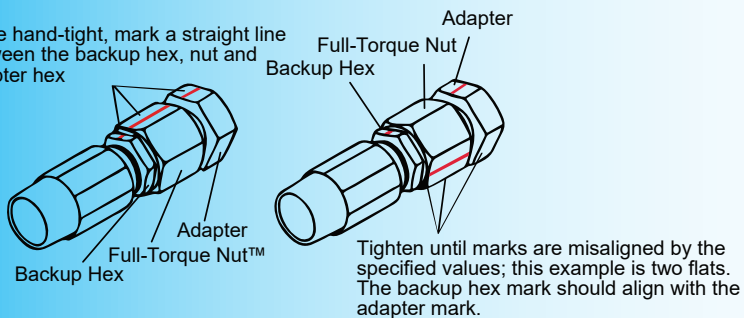
Fitting Size	Dash Size	Thread Size
SAE 4	-04	7/16-20
SAE 5	-05	1/2-20
SAE 6	-06	9/16-18
SAE 8	-08	3/4-16
SAE 10	-10	7/8-14
SAE 12	-12	1 1/16-12

Flats Method Installation

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

Fitting and Adapter Installation: Flats Method

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

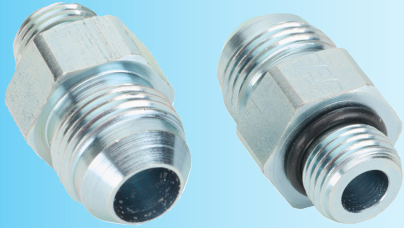


NOTE:

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

Dash Size	JIC 37° (Steel)		Flat Face O-Ring Seal (Steel)		SAE O-Ring Boss (Steel) & Gates Adapterless ≤ 4000PSI	
1/16 in	LB-FT		LB-FT		LB-FT	
	Min	Max	Min	Max	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

HY-TECH Hydraulic Threaded Adapters



Part No. 8MJ-6MB

Overview

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

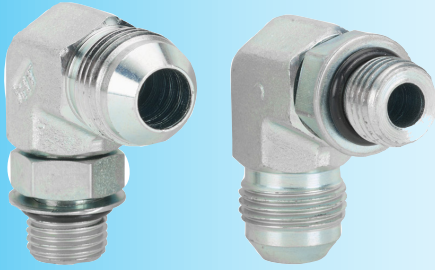
Features

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

HY-TECH Hydraulic JIC to O-ring Boss Straight Adapters Selection

Part No.	Connection 1 (Male JIC)	Connection 2 (Male O-ring boss)	Max. Temp.	Max. Pressure	Qty./pack	Weight (lbs)	Price
<u>4MJ-4MB</u>	-4	-4	212°F (100°C)	5,000 psi	2	0.10	\$3.75
<u>4MJ-6MB</u>		-6			2	0.14	\$4.75
<u>4MJ-8MB</u>		-8			2	0.23	\$6.50
<u>6MJ-4MB</u>	-6	-4			2	0.12	\$4.50
<u>6MJ-6MB</u>		-6			2	0.14	\$4.25
<u>6MJ-8MB</u>		-8			2	0.24	\$6.25
<u>6MJ-10MB</u>		-10			2	0.36	\$8.50
<u>8MJ-6MB</u>	-8	-6		4,500 psi	2	0.22	\$6.00
<u>8MJ-8MB</u>		-8			2	0.27	\$6.50
<u>8MJ-10MB</u>		-10			2	0.36	\$8.75
<u>8MJ-12MB</u>		-12			2	0.60	\$11.00
<u>10MJ-8MB</u>	-10	-8		3,500 psi	2	0.38	\$8.50
<u>10MJ-10MB</u>		-10			2	0.40	\$9.00
<u>12MJ-8MB</u>	-12	-8			2	0.60	\$12.00
<u>12MJ-10MB</u>		-10			2	0.56	\$12.00
<u>12MJ-12MB</u>		-12			2	0.67	\$12.00
<u>12MJ-16MB</u>		-16			2	0.93	\$19.00

HY-TECH Hydraulic Threaded Adapters



Part No. [8MJ-6MB90](#)

Overview

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

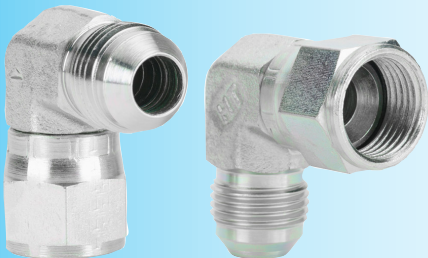
Features

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

HY-TECH Hydraulic JIC to O-ring Boss Elbow Adapters Selection

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

HY-TECH Hydraulic Threaded Adapters



Part No. [8MJ-8FJX90](#)

Overview

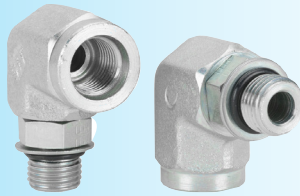
Hydraulic threaded adapters are used to connect hoses to valves, actuators or manifolds.

Features

- 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
4MJ-4FJX90	-4	-4	250°F (121.1°C)	5,000 psi	2	0.14	\$9.50
6MJ-6FJX90	-6	-6			2	0.23	\$11.00
8MJ-8FJX90	-8	-8		4,500 psi	2	0.44	\$13.00
10MJ-10FJX90	-10	-10		3,500 psi	2	0.64	\$17.50
12MJ-12FJX90	-12	-12			2	1.05	\$26.50

HY-TECH Hydraulic Threaded Adapters

Part No. 8MB-6FBPart No. 6MB-6FB90

Overview

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

Features

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

Part No. 8MJ-8FFORX

HY-TECH Hydraulic O-ring Boss Straight Reducer Adapters Selection							
Part No.	Connection 1	Connection 2	Max. Temp.	Max. Pressure	Qty./pack	Weight (lbs)	Price
<u>8MB-4FB</u>	-8 male o-ring boss	-4 female o-ring boss	212°F (100°C)	6,000 psi	2	0.28	\$15.50
<u>8MB-6FB</u>		-6 female o-ring boss			2	0.26	\$7.50
<u>10MB-8FB</u>	-10 male o-ring boss	-8 female o-ring boss		5,000 psi	<u>2</u>	0.41	\$9.00
<u>12MB-8FB</u>	-12 male o-ring boss				2	0.42	\$14.50
<u>12MB-10FB</u>		-10 female o-ring boss			2	0.63	\$15.00
HY-TECH Hydraulic O-ring Boss Elbow Adapters Selection							
<u>4MB-4FB90</u>	-4 male o-ring boss	-4 female o-ring boss	212°F (100°C)	6,000 psi	2	0.30	\$17.50
<u>6MB-6FB90</u>	-6 male o-ring boss	-6 female o-ring boss			2	0.56	\$24.50
HY-TECH Hydraulic JIC to Flat Face Adapters Selection							
<u>6MJ-6FFORX</u>	-6 male JIC 37 deg	-6 female flat face o-ring	212°F (100°C)	6,000 psi	2	0.28	\$13.50
<u>8MJ-8FFORX</u>	-8 male JIC 37 deg	-8 female flat face o-ring			2	0.48	\$18.00