



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.

### **Features**

- 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 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	0.60	\$29.00					
<u>1/4PFX-48IN-FJXEE</u>		0.52 (13.2)		4	0.96	\$33.00				
<u>1/4PFX-72IN-FJXEE</u>			(2) -4 female straight JIC 37° fittings	6	1.31	\$37.00				
<u>1/4PFX-96IN-FJXEE</u>			ge	8	1.67	\$42.00				
<u> 1/4PFX-120IN-FJXEE</u>				10	2.02	\$46.00				
3/8PFX-24IN-FJXEE				2	0.86	\$33.00				
3/8PFX-48IN-FJXEE		3/8 (9.5) 0.65 (16.5)	(2) -6 female straight JIC 37° fittings	4	1.34	\$39.00				
<u>3/8PFX-72IN-FJXEE</u>	3/8 (9.5)			6	1.82	\$44.00				
3/8PFX-96IN-FJXEE				8	2.30	\$50.00				
<u>3/8PFX-120IN-FJXEE</u>				10	2.79	\$55.00				
<u>1/2PFX-24IN-FJXEE</u>				2	1.26	\$42.00				
<u>1/2PFX-48IN-FJXEE</u>				4	1.91	\$49.00				
<u>1/2PFX-72IN-FJXEE</u>	1/2 (12.7)	0.81 (20.5)	(2) -8 female straight JIC 37° fittings	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>				2	2.18	\$81.00				
<u>3/4PFX-48IN-FJXEE</u>				4	3.24	\$91.00				
<u>3/4PFX-72IN-FJXEE</u>	3/4 (19.0)	1.08 (27.4)	(2) -12 female straight JIC 37° fittings	6	4.20	\$102.00				
3/4PFX-96IN-FJXEE				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)				

### Hydraulics tHYD-25

For the latest prices, please check AutomationDirect.com



**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<sup>™</sup> and MXT<sup>™</sup> 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



90° One End, Straight Fitting Other End

 Hose Assembly Length	
Gales)   DRIVEN BY POSSIBILITY	

45° One End, Straight Fitting Other End Hose Assembly Length



# Applications

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

SAE Thread Identification							
Fitting Size	Fitting SizeDash SizeThread 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





Tighten until marks are misaligned by the

specified values; this example is two flats. The backup hex mark should align with the adapter mark.

#### NOTE:

- Seal faces must be in contact and the fitting fully handtightened 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
- Tightening two flats or more is equivalent to severe over-torque and may damage seal faces

Dash Size	JIC 37 <sup>d</sup>	(Steel)	Flat Face O-Ring Seal (Steel)		SAE O-Ring Boss (Steel) & Gates Adapterless $\leq$ 4000P		
1/16 in	LB-FT		LB-FT		LB-FT		
1/16 in	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	





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 Hydra	ulic JIC to O-ring B	oss Stra	ight Adap	ters Sele	ction	
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		-	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>	2	-6		4,500 psi	2	0.22	\$6.00
<u>8MJ-8MB</u>		-8	212°F (100°C)		2	0.27	\$6.50
<u>8MJ-10MB</u>	-8	-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		3 500	2	0.60	\$12.00
<u>12MJ-10MB</u>	10	-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.

#### **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			
<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>	<u>^</u>	-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>	0	-8	212°F (100°C)		2	0.48	\$13.00			
<u>8MJ-10MB90</u>	-8	-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	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.

### 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		
<u>4MJ-4FJX90</u>	-4	-4			5.000 psi	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 poi	2	0.64
<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.

### 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		6 000 poi	2	0.28	\$15.50			
<u>8MB-6FB</u>		-6 female o-ring boss		6,000 psi	2	0.26	\$7.50			
<u>10MB-8FB</u>	-10 male o-ring boss	Q famala a ring haas	212⁰F (100⁰C)		2	0.41	\$9.00			
<u>12MB-8FB</u>	12 mala a ring base	-8 female o-ring boss		5,000 psi	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 Hydra	ulic O-ring Boss Elbow	Adapter	s Select	ion					
<u>4MB-4FB90</u>	-4 male o-ring boss	-4 female o-ring boss	212ºF	- 6 ()() per	2	0.30	\$17.50			
<u>6MB-6FB90</u>	-6 male o-ring boss	-6 female o-ring boss	(100°C)		2	0.56	\$24.50			
	HY-TECH Hydr	aulic JIC to Flat Face A	dapters	Selectio	on					
<u>6MJ-6FF0RX</u>	-6 male JIC 37 deg	-6 female flat face o-ring	212ºF		2	0.28	\$13.50			
<u>8MJ-8FFORX</u>	-8 male JIC 37 deg	-8 female flat face o-ring	(100°C)	6,000 psi	2	0.48	\$18.00			