
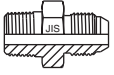


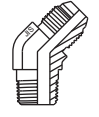
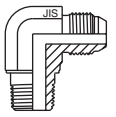

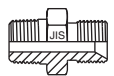
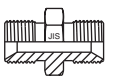
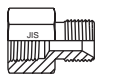

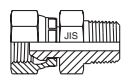
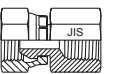
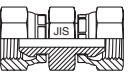

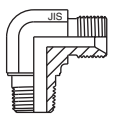
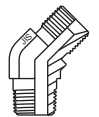







JIS Fittings



The Fitting Authority

 <p>30° Flare</p>	<p>F3T4 BSPT / 30° Flare</p>  <p>14</p>	<p>PNMT4 Plug</p>  <p>14</p>	<p>FNMT4 Cap</p>  <p>14</p>	<p>V3T4 BSPT / 30° Flare</p>  <p>14</p>	<p>C3T4 BSPT / 30° Flare</p>  <p>14</p>
 <p>60° Cone</p>	<p>F3P4 BSPT / 60° Cone</p>  <p>14</p>	<p>HP4 Union</p>  <p>15</p>	<p>G3P4 BSPT / 60° Cone</p>  <p>15</p>	<p>PNMP4 Plug</p>  <p>15</p>	<p>F63P4 60° Swivel / BSPT</p>  <p>15</p>
<p>G63P4 60° Swivel / BSPT</p>  <p>15</p>	<p>HP46 Union Swivel</p>  <p>15</p>	<p>FNMP4 Cap</p>  <p>16</p>	<p>C3P4 BSPT / 60° Cone</p>  <p>16</p>	<p>V3P4 BSPT / 60° Cone</p>  <p>16</p>	
 <p>B2351 Port</p>	<p>P47OMN Hex Head Plug</p>  <p>16</p>	<p>JIS B2351 O-Ring</p>  <p>16</p>			

Introduction

Parker introduced Japanese Industrial Standard (JIS) adapters in the early 1990s to address market requirements for OEM and replacement fittings. These fittings are typically used as hose adapters on equipment designed and/or manufactured in Japan and Korea. Parker's JIS adapters are designed with 30° flare and 60° cone connections and typically incorporate BSP threads.

Parker JIS adapters are designed with BSPP and BSPT port ends and two styles of hose ends: T4 (30° flare, BSPP threads) and P4 (60° cone, BSPP threads). Two additional Parker series of fittings, KA (Komatsu flare) and K4 (BS B5200) adapters, are similar to JIS style fittings and appear in [section J](#) and [section K](#) of this catalog.

The T4 and P4 interfaces provide end user flexibility of connecting to the most common Parker hose ends available as listed in [Table I1](#).

Parker's JIS adapter offering that uses the BSPP port connection are manufactured in accordance with the JIS B2351 type "O" port connection which is commonly used for higher pressure systems. [Fig. I2](#) illustrates this port connection and [Table I2](#) shows appropriate JIS B2351 O-rings and dash sizes.

It should be noted that Parker offers two very similar cone style BSPP adapters — P4 and K4. Parker's K4 (60 cone, BSPP) fittings conform to BS5200, while Parker's JIS cone adapters meet JIS B8363 specifications. **These fittings, while very similar, are not interchangeable.** See the [K4 section](#) of this catalog for more specific information on interchangeability.

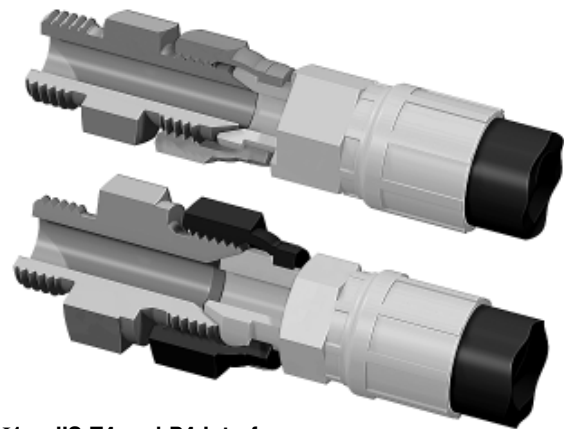


Fig. I1 – JIS T4 and P4 Interfaces

Adapter Connection End	Mating Parker Hose Fitting Series
P4 / P46	UT, GU, G1, G2
T4 / T46	FU

Table I1 – Parker JIS Fittings Hose Adaptability

Design and Construction

Construction: Shaped JIS adapters are manufactured from a hot forged construction. Straight adapters are manufactured from cold drawn barstock.

Threads: The standard JIS products are manufactured with the thread forms listed below:

BSPP Threads: ISO 228-1 G, JIS B 0202,
BSPT Threads: ISO 7/1, JIS B 0203

Identification: All Parker JIS fittings are stamped with "JIS" for positive identification and differentiation from similar style fittings.

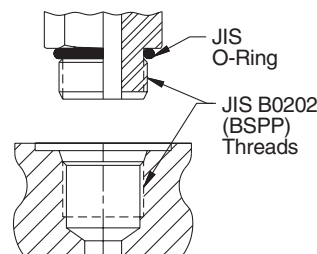


Fig. I2 – JIS B2351 Type "O" Port Connection

"G" Thread BSPP per ISO 228-1 JIS B 0202	Dash Size	Port O-Ring (See Pg. I 6)
1/8-28	2	P8
1/4-19	4	P11
3/8-19	6	P14
1/2-14	8	P18
3/4-14	12	P24
1-11	16	P29

Table I2 – JIS B2351 Port Threads and O-Rings as shown in Fig. I2

Materials Specifications

JIS fitting components are manufactured using state-of-the-art equipment and manufacturing technologies to assure construction integrity, highest strength, long service life and the highest quality. These materials are shown in [Table I3](#).

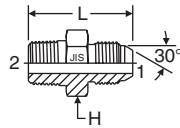
Upon request, JIS fittings can be furnished in materials other than Parker's standard steel offering.

JIS Adapters	Steel	
	ASTM	Type
Forged Bodies	A576	1214/1215
Bar Stock Bodies	A108	12L14

Table I3 – Standard Material Specifications for Parker Japanese Industrial Standard (JIS) Fittings

F3T4 Full Dimensions

Male Connector
30° Flare / BSPT

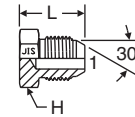


Mates with FU Style hose fittings

TUBE FITTING PART #	END SIZE		H HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 BSPP	2 BSPT			
	-S				
4F3T4	1/4-19	1/4-19	0.75	1.46	5.0
4-6F3T4	1/4-19	3/8-19	0.88	1.51	5.0
6-4F3T4	3/8-19	1/4-19	0.88	1.59	5.0
6F3T4	3/8-19	3/8-19	0.88	1.59	5.0
8-6F3T4	1/2-14	3/8-19	1.06	1.70	5.0
8F3T4	1/2-14	1/2-14	1.06	1.89	5.0
12F3T4	3/4-14	3/4-14	1.44	2.10	4.0
16F3T4	1-11	1-11	1.63	2.30	3.0

PNMT4

Plug
30° Flare



Mates with FU Style hose fittings

TUBE FITTING PART #	END SIZE 1 BSPP	H HEX (mm)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
					-S	
					4PNMT4	1/4-19
6PNMT4	3/8-19	19	0.97	5.0		
8PNMT4	1/2-14	22	1.11	5.0		
12PNMT4	3/4-14	30	1.26	4.0		
16PNMT4	1-11	36	1.30	3.0		

FNMT4

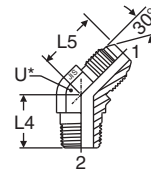
Cap
30° Flare



TUBE FITTING PART #	END SIZE 1 BSPP	H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)		
				-S	
				4FNMT4	1/4-19
6FNMT4	3/8-19	0.88	5.0		
8FNMT4	1/2-14	1.06	5.0		
12FNMT4	3/4-14	1.44	4.0		
16FNMT4	1-11	1.63	3.0		

V3T4 Full Dimensions

45° Male Elbow
30° Flare / BSPT



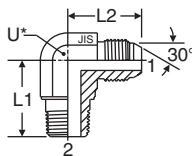
Mates with FU Style hose fittings

* Across wrench flats

TUBE FITTING PART #	END SIZE		L4 (in.)	L5 (in.)	U (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 BSPP	2 BSPT				
	-S					
4V3T4	1/4-19	1/4-19	0.75	0.87	0.56	5.0
6V3T4	3/8-19	3/8-19	0.87	0.97	0.75	5.0
8V3T4	1/2-14	1/2-14	1.06	1.10	0.88	5.0
12V3T4	3/4-14	3/4-14	1.18	1.24	1.06	4.0
16V3T4	1-11	1-11	1.37	1.26	1.31	3.0

C3T4 Full Dimensions

Male Elbow
30° Flare / BSPT



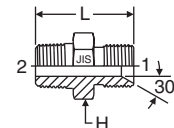
Mates with FU Style hose fittings

* Across wrench flats

TUBE FITTING PART #	END SIZE		L1 (in.)	L2 (in.)	U (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 BSPP	2 BSPT				
	-S					
4C3T4	1/4-19	1/4-19	1.00	0.98	0.56	5.0
6C3T4	3/8-19	3/8-19	1.18	1.14	0.75	5.0
8C3T4	1/2-14	1/2-14	1.42	1.33	0.88	5.0
12C3T4	3/4-14	3/4-14	1.69	1.50	1.06	4.0
16C3T4	1-11	1-11	1.97	1.74	1.31	3.0

F3P4 Full Dimensions

Male Connector
60° Cone / BSPT



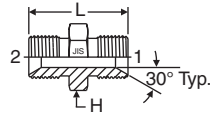
Mates with GU, G1 and G2 Style hose fittings

TUBE FITTING PART #	END SIZE		H HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 BSPP	2 BSPT			
	-S				
4F3P4	1/4-19	1/4-19	0.75	1.44	5.0
6F3P4	3/8-19	3/8-19	0.88	1.50	5.0
8F3P4	1/2-14	1/2-14	1.06	1.81	5.0
12F3P4	3/4-14	3/4-14	1.44	2.05	4.0
16F3P4	1-11	1-11	1.63	2.28	3.0



HP4 Full Dimensions

Union
60° Cone

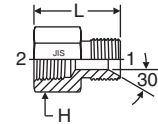


Mates with GU, G1 and G2 Style hose fittings

TUBE FITTING PART #	END SIZE		H HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1	2			
	BSPP	BSPP			
4HP4	1/4-19	1/4-19	0.75	1.34	5.0
6HP4	3/8-19	3/8-19	0.88	1.50	5.0
8HP4	1/2-14	1/2-14	1.06	1.81	5.0
12HP4	3/4-14	3/4-14	1.44	2.05	4.0
16HP4	1-11	1-11	1.63	2.28	3.0

G3P4 Full Dimensions

Female Connector
60° Cone / BSPT



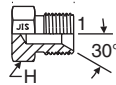
Mates with GU, G1 and G2 Style hose fittings

TUBE FITTING PART #	END SIZE		H HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1	2			
	BSPP	BSPT			
4G3P4	1/4-19	1/4-19	0.75	1.22	5.0
6G3P4	3/8-19	3/8-19	0.88	1.34	5.0
8G3P4	1/2-14	1/2-14	1.06	1.58	5.0
12G3P4	3/4-14	3/4-14	1.44	1.73	4.0
16G3P4	1-11	1-11	1.63	1.93	3.0

- How to Order
- Specs
- Assembly / Installation
- Reference

PNMP4

Plug
60° Cone

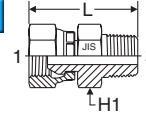


Mates with GU, G1 and G2 Style hose fittings

TUBE FITTING PART #	END SIZE 1 BSPP	H HEX (mm)	L	STANDARD
				Dynamic
				Pressure (x 1,000 PSI)
4PNMP4	1/4-19	17	5.0	-S
6PNMP4	3/8-19	19	5.0	
8PNMP4	1/2-14	22	5.0	
12PNMP4	1/2-14	30	4.0	
16PNMP4	1-11	36	3.0	

F63P4 Full Dimensions

Swivel Male Connector
60° Swivel / BSPT

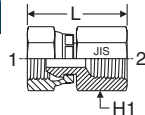


Mates with UT Style hose fittings

TUBE FITTING PART #	END SIZE		H1 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1	2			
	BSPP	BSPT			
4F63P4	1/4-19	1/4-19	0.75	1.73	5.0
6F63P4	3/8-19	3/8-19	0.88	1.94	5.0
8F63P4	1/2-14	1/2-14	1.06	2.25	5.0
12F63P4	3/4-14	3/4-14	1.44	2.55	4.0
16F63P4	1-11	1-11	1.63	2.77	3.0

G63P4 Full Dimensions

Swivel Female Connector
60° Swivel / BSPT

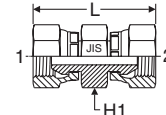


Mates with UT Style hose fittings

TUBE FITTING PART #	END SIZE		H1 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1	2			
	BSPP	BSPT			
4G63P4	1/4-19	1/4-19	0.75	1.61	5.0
6G63P4	3/8-19	3/8-19	0.88	1.78	5.0
8G63P4	1/2-14	1/2-14	1.06	2.02	5.0
12G63P4	3/4-14	3/4-14	1.44	2.20	4.0
16G63P4	1-11	1-11	1.63	2.52	3.0

HP46 Full Dimensions

Swivel Union Connector
60° Swivel



Mates with UT Style hose fittings

TUBE FITTING PART #	END SIZE		H1 HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1	2			
	BSPP	BSPP			
4HP46	1/4-19	1/4-19	0.75	2.12	5.0
6HP46	3/8-19	3/8-19	0.88	2.37	5.0
8HP46	1/2-14	1/2-14	1.06	2.73	5.0
12HP46	3/4-14	3/4-14	1.44	2.96	4.0
16HP46	1-11	1-11	1.63	3.24	3.0

FNMP4

Cap
60° Cone

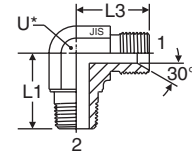


Mates with UT Style hose fittings

TUBE FITTING PART #	END SIZE		H HEX (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 BSPP	2 BSPT		
4FNMP4	1/4-19	1/4-19	0.75	5.0
6FNMP4	3/8-19	3/8-19	0.88	5.0
8FNMP4	1/2-14	1/2-14	1.06	5.0
12FNMP4	3/4-14	3/4-14	1.44	4.0
16FNMP4	1-11	1-11	1.63	3.0

C3P4 Full Dimensions

90° Male Elbow
60° Cone / BSPT



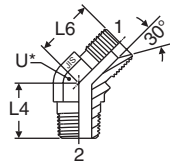
Mates with GU, G1 and G2 Style hose fittings

* Across wrench flats

TUBE FITTING PART #	END SIZE		L1 (in.)	L3 (in.)	U (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 BSPP	2 BSPT				
4C3P4	1/4-19	1/4-19	1.00	0.96	0.56	5.0
6C3P4	3/8-19	3/8-19	1.18	1.14	0.75	5.0
8C3P4	1/2-14	1/2-14	1.42	1.28	0.88	5.0
12C3P4	3/4-14	3/4-14	1.69	1.56	1.06	4.0
16C3P4	1-11	1-11	1.97	1.74	1.31	3.0

V3P4 Full Dimensions

45° Male Elbow
60° Cone / BSPT

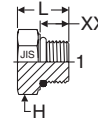


Mates with GU, G1 and G2 Style hose fittings

TUBE FITTING PART #	END SIZE		L4 (in.)	L6 (in.)	U (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 BSPP	2 BSPT				
4V3P4	1/4-19	1/4-19	0.75	0.81	0.56	5.0
6V3P4	3/8-19	3/8-19	0.87	0.91	0.75	5.0
8V3P4	1/2-14	1/2-14	1.06	1.05	0.88	5.0
12V3P4	3/4-14	3/4-14	1.18	1.18	1.06	4.0
16V3P4	1-11	1-11	1.37	1.30	1.31	3.0

P47OMN

Plug



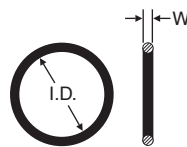
Hex head plug for JIS B2351

TUBE FITTING PART #	END SIZE		H HEX (mm)	L (mm)	XX (mm)	STANDARD Dynamic Pressure (x 1,000 PSI) -S
	1 BSPP	2 BSPT				
4P47OMN	1/4-19	1/4-19	19	19.1	7.9	5.0
6P47OMN	3/8-19	3/8-19	22	20.0	8.8	5.0
8P47OMN	1/2-14	1/2-14	27	24.1	9.6	5.0
12P47OMN	3/4-14	3/4-14	36	26.9	12.4	4.0
16P47OMN	1-11	1-11	41	31.0	12.5	3.0

JIS B2351 O-Ring

O-Ring

90 durometer, Nitrile



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

