

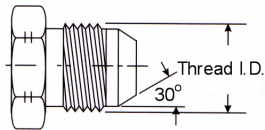
## Japanese Industrial Standard (JIS) Connection Types / Identification

Japanese Industrial Standard hydraulic connections include 30° flare and 30° cone connections (both internal sealing), parallel and tapered port connections, flareless tube connections and bolt-on flange connections. All threaded JIS connections are offered in both inch and metric series. These connections are found on equipment from Japan, Korea, China and other Asian Countries.

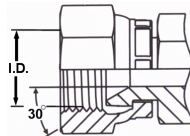
The most common JIS connections encountered on equipment (other than on sea vessels) are the JIS 30° Flare and the JIS 30° Cone. As previously mentioned, the JIS 30° Flare is offered in an inch series (BSPP Threads) and a metric series (Komatsu®). This section is dedicated to the JIS 30° Flare (BSPP Threads).

### Measurement Procedure

1. With calipers, measure the O.D. (outer diameter) of the male threads or the I.D. (inner diameter) of the Female threads.
2. Check the thread pitch with the thread pitch gauges.
3. Check the flare angle (30°) with the seat angle gauge.
4. Compare measurements against chart.



JIS 30° Flare Male



JIS 30° Flare Female

Dash Size	Nominal Size	Thread Pitch	Male Thread O.D. (Inches)		Female Thread I.D. (Inches)	
2	1/8	28	.375	3/8	.344	11/32
4	1/4	19	.531	17/32	.469	7/16
6	3/8	19	.656	21/32	.594	19/32
8	1/2	14	.813	13/16	.750	3/4
12	3/4	14	1.031	1 1/32	.969	15/16
16	1	11	1.938	1 15/16	1.219	1 13/16
20	1 1/4	11	1.656	1 21/32	1.531	1 17/32
24	1 1/2	11	1.875	1 7/8	1.781	1 25/32
32	2	11	2.344	2 11/32	2.219	2 7/32

### Contents in page series **S**

JIS 30° Flare to JIS 30° Flare .....	<b>S2</b>
Converted to..... ○ BSPT.....	<b>S3</b>
Converted to..... ○ BSPP.....	<b>S4</b>
Converted to..... ○ BSPPOR (Washer & O-Ring).....	<b>S4</b>
Converted to..... ○ SAE O-Ring.....	<b>S4</b>
Converted to..... ○ NPT.....	<b>S5</b>
Converted to..... ○ JIC.....	<b>S6</b>
Converted to..... ○ ORFS.....	<b>S6</b>

For the equivalent of the other JIS connection types see the following sections

- **JIS 30° Flare (Metric Threads)** - Komatsu® Section pg K1
- **JIS 30° Cone (BSPP Threads)** - BSPP 60° Section pg B1
- **JIS 30° Cone (Metric Threads)** - Metric 60° Section M1
- **JIS Pipe Parallel Port** - BSPP Port Section pg G1
- **JIS Pipe Tapered Pipe** - BSPT Section pg T1
- **JIS Flareless Tube Connections** quoted upon request.

## JIS Cap



Part Number	JIS
<b>0CS-02</b>	1/8-28
<b>0CS-04</b>	1/4-19
<b>0CS-06</b>	3/8-19
<b>0CS-08</b>	1/2-14
<b>0CS-12</b>	3/4-14
<b>0CS-16</b>	1-11
<b>0CS-20</b>	1¼-11
<b>0CS-24</b>	1½-11
<b>0CS-32</b>	2-11

## JIS Plug



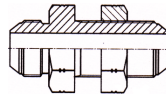
Part Number	JIS
<b>0PS-02</b>	1/8-28
<b>0PS-04</b>	1/4-19
<b>0PS-06</b>	3/8-19
<b>0PS-08</b>	1/2-14
<b>0PS-12</b>	3/4-14
<b>0PS-16</b>	1-11
<b>0PS-20</b>	1¼-11
<b>0PS-24</b>	1½-11
<b>0PS-32</b>	2-11

## JIS Male Union



Part Number	JIS	JIS
<b>10SS-02-02</b>	1/8-28	1/8-28
<b>10SS-04-04</b>	1/4-19	1/4-19
<b>10SS-06-06</b>	3/8-19	3/8-19
<b>10SS-08-08</b>	1/2-14	1/2-14
<b>10SS-12-12</b>	3/4-14	3/4-14
<b>10SS-16-16</b>	1-11	1-11
<b>10SS-20-20</b>	1¼-11	1¼-11
<b>10SS-24-24</b>	1½-11	1½-11
<b>10SS-32-32</b>	2-11	2-11

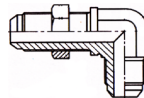
## JIS Male Bulkhead Union



*This series quoted upon request*

Part Number	JIS	JIS
<b>60SS-04-04</b>	1/4-19	1/4-19
<b>60SS-06-06</b>	3/8-19	3/8-19
<b>60SS-08-08</b>	1/2-14	1/2-14
<b>60SS-12-12</b>	3/4-14	3/4-14
<b>60SS-16-16</b>	1-11	1-11

## JIS Male Bulkhead Union 90° Elbow (With Lock Nut)



*This series quoted upon request*

Part Number	JIS	JIS
<b>69SS-04-04</b>	1/4-19	1/4-19
<b>69SS-06-06</b>	3/8-19	3/8-19
<b>69SS-08-08</b>	1/2-14	1/2-14
<b>69SS-12-12</b>	3/4-14	3/4-14
<b>69SS-16-16</b>	1-11	1-11

## JIS Male to Female Swivel



*This series quoted upon request*

Part Number	JIS	JIS
<b>20SS-02-02</b>	1/8-28	1/8-28
<b>20SS-04-04</b>	1/4-19	1/4-19
<b>20SS-06-06</b>	3/8-19	3/8-19
<b>20SS-08-08</b>	1/2-14	1/2-14
<b>20SS-12-12</b>	3/4-14	3/4-14
<b>20SS-16-16</b>	1-11	1-11
<b>20SS-20-20</b>	1¼-11	1¼-11
<b>20SS-24-24</b>	1½-11	1½-11

## JIS Male to Female Swivel 45° Elbow



Part Number	JIS	JIS
<b>24SS-02-02</b>	1/8-28	1/8-28
<b>24SS-04-04</b>	1/4-19	1/4-19
<b>24SS-06-06</b>	3/8-19	3/8-19
<b>24SS-08-08</b>	1/2-14	1/2-14
<b>24SS-12-12</b>	3/4-14	3/4-14
<b>24SS-16-16</b>	1-11	1-11
<b>24SS-20-20</b>	1¼-11	1¼-11
<b>24SS-24-24</b>	1½-11	1½-11

## JIS Male to Female Swivel 90° Elbow



Part Number	JIS	JIS
<b>29SS-02-02</b>	1/8-28	1/8-28
<b>29SS-04-04</b>	1/4-19	1/4-19
<b>29SS-06-06</b>	3/8-19	3/8-19
<b>29SS-08-08</b>	1/2-14	1/2-14
<b>29SS-12-12</b>	3/4-14	3/4-14
<b>29SS-16-16</b>	1-11	1-11
<b>29SS-20-20</b>	1¼-11	1¼-11
<b>29SS-24-24</b>	1½-11	1½-11

## JIS Female Swivel Branch Tee



Part Number	JIS
<b>BSSS-02-02-02</b>	1/8-28
<b>BSSS-04-04-04</b>	1/4-19
<b>BSSS-06-06-06</b>	3/8-19
<b>BSSS-08-08-08</b>	1/2-14
<b>BSSS-12-12-12</b>	3/4-14
<b>BSSS-16-16-16</b>	1-11
<b>BSSS-20-20-20</b>	1¼-11
<b>BSSS-24-24-24</b>	1½-11

## JIS Female Swivel Run Tee



Part Number	JIS
CSSS-02-02-02	1/8-28
CSSS-04-04-04	1/4-19
CSSS-06-06-06	3/8-19
CSSS-08-08-08	1/2-14
CSSS-12-12-12	3/4-14
CSSS-16-16-16	1-11
CSSS-20-20-20	1¼-11
CSSS-24-24-24	1½-11

## JIS Male to BSPT\* Male



Part Number	JIS	BSPT
10ST-02-02	1/8-28	1/8-28
10ST-02-04	1/8-28	1/4-19
10ST-04-02	1/4-19	1/8-28
10ST-04-04	1/4-19	1/4-19
10ST-04-06	1/4-19	3/8-19
10ST-04-08	1/4-19	1/2-14
10ST-06-02	3/8-19	1/8-28
10ST-06-04	3/8-19	1/4-19
10ST-06-06	3/8-19	3/8-19
10ST-06-08	3/8-19	1/2-14
10ST-06-12	3/8-19	3/4-14
10ST-08-04	1/2-14	1/4-19
10ST-08-06	1/2-14	3/8-19
10ST-08-08	1/2-14	1/2-14
10ST-08-12	1/2-14	3/4-14
10ST-12-06	3/4-14	3/8-19
10ST-12-08	3/4-14	1/2-14
10ST-12-12	3/4-14	3/4-14
10ST-12-16	3/4-14	1-11
10ST-16-12	1-11	3/4-14
10ST-16-16	1-11	1-11
10ST-20-20	1¼-11	1¼-11
10ST-24-24	1½-11	1½-11
10ST-32-32	2-11	2-11

## JIS Male to BSPT\* Male 45° Elbow



Part Number	JIS	BSPT
14ST-02-02	1/8-28	1/8-28
14ST-02-04	1/8-28	1/4-19
14ST-04-02	1/4-19	1/8-28
14ST-04-04	1/4-19	1/4-19
14ST-04-06	1/4-19	3/8-19
14ST-06-04	3/8-19	1/4-19
14ST-06-06	3/8-19	3/8-19
14ST-06-08	3/8-19	1/2-14
14ST-08-06	1/2-14	3/8-19
14ST-08-08	1/2-14	1/2-14
14ST-08-12	1/2-14	3/4-14
14ST-12-12	3/4-14	3/4-14
14ST-12-16	3/4-14	1-11
14ST-16-16	1-11	1-11
14ST-20-20	1¼-11	1¼-11

## JIS Male to BSPT\* Male 90° Elbow



Part Number	JIS	BSPT
19ST-02-02	1/8-28	1/8-28
19ST-02-04	1/8-28	1/4-19
19ST-04-02	1/4-19	1/8-28
19ST-04-04	1/4-19	1/4-19
19ST-04-06	1/4-19	3/8-19
19ST-04-08	1/4-19	1/2-14
19ST-06-02	3/8-19	1/8-28
19ST-06-04	3/8-19	1/4-19
19ST-06-06	3/8-19	3/8-19
19ST-06-08	3/8-19	1/2-14
19ST-06-12	3/8-19	3/4-14
19ST-08-04	1/2-14	1/4-19
19ST-08-06	1/2-14	3/8-19
19ST-08-08	1/2-14	1/2-14

19ST series continued next column

19ST series continued from last column



Part Number	JIS	BSPT
19ST-08-12	1/2-14	3/4-14
19ST-12-08	3/4-14	1/2-14
19ST-12-12	3/4-14	3/4-14
19ST-12-16	3/4-14	1-11
19ST-16-12	1-11	3/4-14
19ST-16-16	1-11	1-11
19ST-20-20	1¼-11	1¼-11
19ST-24-24	1½-11	1½-11
19ST-32-32	2-11	2-11

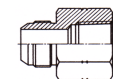
## BSPT\* Male to JIS Female Swivel



This series quoted upon request

Part Number	BSPT	JIS
20TS-04-04	1/4-19	1/4-19
20TS-06-06	3/8-19	3/8-19
20TS-08-08	1/2-14	1/2-14
20TS-12-12	3/4-14	3/4-14
20TS-16-16	1-11	1-11
20TS-20-20	1¼-11	1¼-11
20TS-24-24	1½-11	1½-11
20TS-32-32	2-11	2-11

## JIS Male to BSPT\* Female Solid

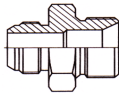


This series quoted upon request

Part Number	JIS	BSPT
50ST-04-02	1/4-19	1/8-28
50ST-04-04	1/4-19	1/4-19
50ST-04-06	1/4-19	3/8-19
50ST-06-04	3/8-19	1/4-19
50ST-06-06	3/8-19	3/8-19
50ST-08-06	1/2-14	3/8-19
50ST-08-08	1/2-14	1/2-14
50ST-12-12	3/4-14	3/4-14
50ST-16-16	1-11	1-11

\* BSPT same as JIS Tapered Pipe Thread

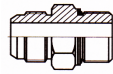
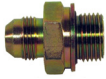
## JIS Male to BSPP\* Male (60° Seat)



*This series quoted upon request*

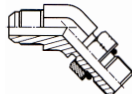
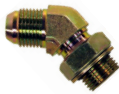
Part Number	JIS	BSPP
<b>10SB-04-04</b>	1/4-19	1/4-19
<b>10SB-06-06</b>	3/8-19	3/8-19
<b>10SB-08-08</b>	1/2-14	1/2-14
<b>10SB-12-12</b>	3/4-14	3/4-14
<b>10SB-16-16</b>	1-11	1-11

## JIS Male to BSPPOR\* Male (Washer / O-Ring)



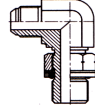
Part Number	JIS	BSPP
<b>10SG-02-02</b>	1/8-28	1/8-28
<b>10SG-04-04</b>	1/4-19	1/4-19
<b>10SG-04-06</b>	1/4-19	3/8-19
<b>10SG-06-06</b>	3/8-19	3/8-19
<b>10SG-06-08</b>	3/8-19	1/2-14
<b>10SG-08-08</b>	1/2-14	1/2-14
<b>10SG-12-12</b>	3/4-14	3/4-14
<b>10SG-16-16</b>	1-11	1-11
<b>10SG-20-20</b>	1 1/4-11	1 1/4-11
<b>10SG-24-24</b>	1 1/2-11	1 1/2-11

## JIS Male to BSPPOR\* Male 45° Adjustable Elbow (Nut / Washer / O-Ring)



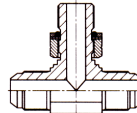
Part Number	JIS	BSP
<b>14SG-02-02</b>	1/8-28	1/8-28
<b>14SG-04-04</b>	1/4-19	1/4-19
<b>14SG-04-06</b>	1/4-19	3/8-19
<b>14SG-06-06</b>	3/8-19	3/8-19
<b>14SG-06-08</b>	3/8-19	1/2-14
<b>14SG-08-08</b>	1/2-14	1/2-14
<b>14SG-12-12</b>	3/4-14	3/4-14
<b>14SG-16-16</b>	1-11	1-11
<b>14SG-20-20</b>	1 1/4-11	1 1/4-11
<b>14SG-24-24</b>	1 1/2-11	1 1/2-11

## JIS Male to BSPPOR\* Male 90° Adjustable Elbow (Nut / Washer / O-Ring)



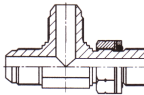
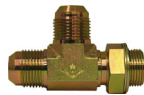
Part Number	JIS	BSP
<b>19SG-02-02</b>	1/8-28	1/8-28
<b>19SG-04-04</b>	1/4-19	1/4-19
<b>19SG-04-06</b>	1/4-19	3/8-19
<b>19SG-06-06</b>	3/8-19	3/8-19
<b>19SG-06-08</b>	3/8-19	1/2-14
<b>19SG-08-08</b>	1/2-14	1/2-14
<b>19SG-12-12</b>	3/4-14	3/4-14
<b>19SG-16-16</b>	1-11	1-11
<b>19SG-20-20</b>	1 1/4-11	1 1/4-11
<b>19SG-24-24</b>	1 1/2-11	1 1/2-11

## JIS Male to BSPPOR\* Male Adjustable Branch Tee (Nut / Washer / O-Ring)



1. Part Number	JIS	JIS	BSP
<b>ASSG-02-02-02</b>	1/8-28	1/8-28	1/8-28
<b>ASSG-04-04-04</b>	1/4-19	1/4-19	1/4-19
<b>ASSG-06-06-06</b>	3/8-19	3/8-19	3/8-19
<b>ASSG-08-08-08</b>	1/2-14	1/2-14	1/2-14
<b>ASSG-12-12-12</b>	3/4-14	3/4-14	3/4-14
<b>ASSG-16-16-16</b>	1-11	1-11	1-11

## JIS Male to BSPPOR\* Male Adjustable Run Tee (Nut / Washer / O-Ring)



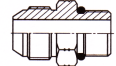
Part Number	JIS	BSP	JIS
<b>ASGS-02-02-02</b>	1/8-28	1/8-28	1/8-28
<b>ASGS-04-04-04</b>	1/4-19	1/4-19	1/4-19
<b>ASGS-06-06-06</b>	3/8-19	3/8-19	3/8-19
<b>ASGS-08-08-08</b>	1/2-14	1/2-14	1/2-14
<b>ASGS-12-12-12</b>	3/4-14	3/4-14	3/4-14
<b>ASGS-16-16-16</b>	1-11	1-11	1-11

## JIS Port Thread O-Ring



Part Number	For JIS (BSPP)
<b>SOR-02</b>	1/8-28
<b>SOR-04</b>	1/4-19
<b>SOR-06</b>	3/8-19
<b>SOR-08</b>	1/2-14
<b>SOR-12</b>	3/4-14
<b>SOR-16</b>	1-11
<b>SOR-20</b>	1 1/4-11
<b>SOR-24</b>	1 1/2-11
<b>SOR-32</b>	2-11

## JIS Male to SAE O-Ring Male



Part Number	JIS	SAE
<b>10SO-04-04</b>	1/8-28	7/16-20
<b>10SO-04-06</b>	1/4-19	9/16-18
<b>10SO-06-04</b>	3/8-19	7/16-20
<b>10SO-06-06</b>	3/8-19	9/16-18
<b>10SO-06-08</b>	3/8-19	3/4-16
<b>10SO-08-06</b>	1/2-14	9/16-18
<b>10SO-08-08</b>	1/2-14	3/4-16
<b>10SO-08-10</b>	1/2-14	7/8-14
<b>10SO-08-12</b>	1/2-14	1 1/16-12
<b>10SO-12-10</b>	3/4-14	7/8-14
<b>10SO-12-12</b>	3/4-14	1 1/16-12
<b>10SO-16-12</b>	1-11	1 1/16-12
<b>10SO-16-16</b>	1-11	1 5/16-12
<b>10SO-20-16</b>	1 1/4-11	1 5/16-12
<b>10SO-20-20</b>	1 1/4-11	1 5/8-12
<b>10SO-24-20</b>	1 1/2-11	1 5/8-12
<b>10SO-24-24</b>	1 1/2-11	1 7/8-12

\* BSPP / BSPPOR same as JIS Parallel

# Japanese Industrial Standard 30° Flare (BSPP Threads)



## Male JIS to Male SAE O-Ring 45° Adjustable Elbow (Nut / Washer / O-Ring)



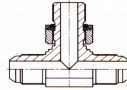
Part Number	JIS	SAE
14SO-04-04	1/8-28	7/16-20
14SO-04-06	1/4-19	9/16-18
14SO-06-04	3/8-19	7/16-20
14SO-06-06	3/8-19	9/16-18
14SO-06-08	3/8-19	3/4-16
14SO-08-06	1/2-14	9/16-18
14SO-08-08	1/2-14	3/4-16
14SO-12-10	3/4-14	7/8-14
14SO-12-12	3/4-14	1 1/16-12
14SO-16-12	1-11	1 1/16-12
14SO-16-16	1-11	1 5/16-12
14SO-20-16	1 1/4-11	1 5/16-12
14SO-20-20	1 1/4-11	1 5/8-12
14SO-24-20	1 1/2-11	1 5/8-12
14SO-24-24	1 1/2-11	1 7/8-12

## JIS Male to SAE O-Ring Male Adjustable 90° Elbow (Nut / Washer / O-Ring)



Part Number	JIS	SAE
19SO-04-04	1/8-28	7/16-20
19SO-04-06	1/4-19	9/16-18
19SO-06-04	3/8-19	7/16-20
19SO-06-06	3/8-19	9/16-18
19SO-06-08	3/8-19	3/4-16
19SO-08-06	1/2-14	9/16-18
19SO-08-08	1/2-14	3/4-16
19SO-08-10	1/2-14	7/8-14
19SO-08-12	1/2-14	1 1/16-12
19SO-12-10	3/4-14	7/8-14
19SO-12-12	3/4-14	1 1/16-12
19SO-16-16	1-11	1 5/16-12
19SO-20-16	1 1/4-11	1 5/16-12
19SO-20-20	1 1/4-11	1 5/8-12
19SO-24-20	1 1/2-11	1 5/8-12
19SO-24-24	1 1/2-11	1 7/8-12

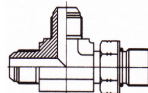
## JIS Male to SAE O-Ring Male Adjustable Branch Tee (Nut / Washer O-Ring)



*This series to be added late 2005*

Part Number	JIS	JIS	SAE
ASSO-04-04-04	1/4-19	1/4-19	7/16-20
ASSO-06-06-06	3/8-19	3/8-19	9/16-18
ASSO-08-08-08	1/2-14	1/2-14	3/4-16
ASSO-12-12-12	3/4-14	3/4-14	1 1/16-12
ASSO-16-16-16	1-11	1-11	1 5/16-12

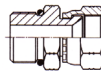
## JIS Male to SAE O-Ring Male Adjustable Run Tee (Nut / Washer / O-Ring)



*This series to be added late 2005*

Part Number	JIS	SAE	JIS
ASOS-04-04-04	1/4-19	7/16-20	1/4-19
ASOS-06-06-06	3/8-19	9/16-18	3/8-19
ASOS-08-08-08	1/2-14	3/4-16	1/2-14
ASOS-12-12-12	3/4-14	1 1/16-12	3/4-14
ASOS-16-16-16	1-11	1 5/16-12	1-11

## SAE O-Ring Male to Female JIS Swivel



*This series quoted upon request*

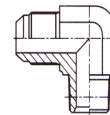
Part Number	SAE	JIS
20OS-04-04	7/16-20	1/4-19
20OS-04-06	7/16-20	3/8-19
20OS-06-06	9/16-18	3/8-19
20OS-06-08	9/16-18	1/2-14
20OS-08-08	3/4-16	1/2-14
20OS-10-12	7/8-14	3/4-14
20OS-12-12	1 1/16-12	3/4-14
20OS-12-16	1 1/16-12	1-11
20OS-16-16	1 5/16-12	1-11

## JIS Male to NPT Male



Part Number	JIS	NPT
10SN-04-02	1/4-19	1/8-27
10SN-04-04	1/4-19	1/4-18
10SN-06-04	3/8-19	1/4-18
10SN-06-06	3/8-19	3/8-18
10SN-06-08	3/8-19	1/2-14
10SN-08-06	1/2-14	3/8-18
10SN-08-08	1/2-14	1/2-14
10SN-12-08	3/4-14	1/2-14
10SN-12-12	3/4-14	3/4-14
10SN-16-12	1-11	3/4-14
10SN-16-16	1-11	1-11 1/2
10SN-20-16	1 1/4-11	1-11 1/2
10SN-20-20	1 1/4-11	1 1/4-11 1/2
10SN-24-24	1 1/2-11	1 1/2-11 1/2

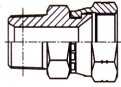
## JIS Male to NPT Male 90° Elbow



*This series quoted upon request*

Part Number	JIS	NPT
19SN-04-04	1/4-19	1/4-18
19SN-06-04	3/8-19	1/4-18
19SN-06-06	3/8-19	3/8-18
19SN-08-06	1/2-14	3/8-18
19SN-08-08	1/2-14	1/2-14
19SN-12-08	3/4-14	1/2-14
19SN-12-12	3/4-14	3/4-14
19SN-16-12	1-11	3/4-14
19SN-16-16	1-11	1-11 1/2
19SN-20-16	1 1/4-11	1-11 1/2
19SN-20-20	1 1/4-11	1 1/4-11 1/2

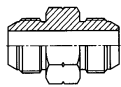
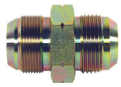
## NPT Male to Female JIS Swivel



*This series quoted upon request*

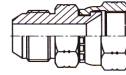
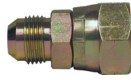
Part Number	NPT	JIS
<b>20NS-04-04</b>	1/4-18	1/4-19
<b>20NS-06-06</b>	3/8-18	3/8-19
<b>20NS-08-08</b>	1/2-14	1/2-14
<b>20NS-12-12</b>	3/4-14	3/4-14
<b>20NS-16-16</b>	1-11½	1-11

## JIC Male to JIS Male



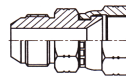
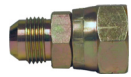
Part Number	JIC	JIS
<b>10JS-04-04</b>	7/16-20	1/4-19
<b>10JS-04-06</b>	7/16-20	3/8-19
<b>10JS-05-04</b>	1/2-20	1/4-19
<b>10JS-05-06</b>	1/2-20	3/8-19
<b>10JS-06-06</b>	9/16-18	3/8-19
<b>10JS-06-08</b>	9/16-18	1/2-14
<b>10JS-08-08</b>	3/4-16	1/2-14
<b>10JS-08-12</b>	3/4-16	3/4-14
<b>10JS-10-08</b>	7/8-14	1/2-14
<b>10JS-10-12</b>	7/8-14	3/4-14
<b>10JS-12-12</b>	11/16-12	3/4-14
<b>10JS-12-16</b>	11/16-12	1-11
<b>10JS-16-12</b>	15/16-12	3/4-14
<b>10JS-16-16</b>	15/16-12	1-11
<b>10JS-16-20</b>	15/16-12	11/4-11
<b>10JS-20-20</b>	15/8-12	11/4-11
<b>10JS-20-24</b>	17/8-12	11/2-11

## JIS Male to JIC Female Swivel



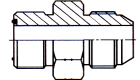
Part Number	JIS	JIC
<b>20SJ-04-04</b>	1/4-19	7/16-20
<b>20SJ-06-04</b>	3/8-19	7/16-20
<b>20SJ-06-06</b>	3/8-19	9/16-18
<b>20SJ-08-06</b>	1/2-14	9/16-18
<b>20SJ-08-08</b>	1/2-14	3/4-16
<b>20SJ-12-10</b>	3/4-14	7/8-14
<b>20SJ-12-12</b>	3/4-14	11/16-12
<b>20SJ-16-12</b>	1-11	11/16-12
<b>20SJ-16-16</b>	1-11	15/16-12
<b>20SJ-20-20</b>	11/4-11	15/8-12
<b>20SJ-20-24</b>	11/4-11	17/8-12

## JIC Male to Female JIS Swivel



Part Number	JIC	JIS
<b>20JS-04-04</b>	7/16-20	1/4-19
<b>20JS-04-06</b>	7/16-20	3/8-19
<b>20JS-06-06</b>	9/16-18	3/8-19
<b>20JS-06-08</b>	9/16-18	1/2-14
<b>20JS-08-08</b>	3/4-16	1/2-14
<b>20JS-10-08</b>	7/8-14	1/2-14
<b>20JS-10-12</b>	7/8-14	3/4-14
<b>20JS-12-12</b>	11/16-12	3/4-14
<b>20JS-16-12</b>	15/16-12	3/4-14
<b>20JS-16-16</b>	15/16-12	1-11
<b>20JS-20-20</b>	15/8-12	11/4-11
<b>20JS-24-24</b>	17/8-12	11/2-11

## ORS Male to JIS Male



Part Number	ORFS	JIS
<b>10FS-04-04</b>	9/16-18	1/4-19
<b>10FS-06-06</b>	11/16-16	3/8-19
<b>10FS-08-08</b>	13/16-16	1/2-14
<b>10FS-12-12</b>	13/16-12	3/4-14
<b>10FS-16-16</b>	17/16-12	1-11

## ORS Male to Female JIS



Part Number	ORFS	JIS
<b>20FS-04-04</b>	9/16-18	1/4-19
<b>20FS-04-06</b>	9/16-18	3/8-19
<b>20FS-04-08</b>	9/16-18	1/2-14
<b>20FS-06-06</b>	11/16-16	3/8-19
<b>20FS-06-08</b>	11/16-16	1/2-14
<b>20FS-06-12</b>	11/16-16	3/4-14
<b>20FS-08-08</b>	13/16-16	1/2-14
<b>20FS-08-12</b>	13/16-16	3/4-14
<b>20FS-12-08</b>	13/16-12	1/2-14
<b>20FS-12-12</b>	13/16-12	3/4-14
<b>20FS-12-16</b>	13/16-12	1-11
<b>20FS-16-16</b>	17/16-12	1-11
<b>20FS-16-20</b>	17/16-12	11/4-11
<b>20FS-16-24</b>	17/16-12	11/2-11
<b>20FS-20-20</b>	111/16-12	11/4-11
<b>20FS-24-24</b>	2-12	11/2-11