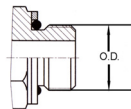


Metric Parallel Connections (Port)

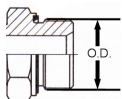
Metric Parallel Thread Connections are offered in 60° Cone Seat, Female Solid and Port Connection (Washer / O-Ring) types, just like BSPP. This series of pages (H), will include Port Connection Types. All "H" designated connections will include a Buna-N O-Ring with a plated Carbon Steel Washer (or Captive Seal) for external port sealing.

Measurement Procedure

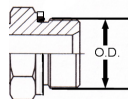
1. With calipers, measure the O.D. (outer diameter) of the Male threads or the I.D. (inner diameter) of the Female threads.
2. Check the thread pitch with the thread pitch gauges.
3. Compare measurements against chart.



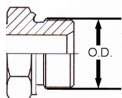
Metric Male Port Connection
(Washer / O-Ring)



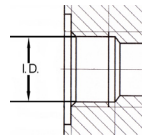
Metric Male Port Connection
(Captive Seal)



Metric Male Port Connection
(Bonded Seal)



Metric Male Port Connection
(Cutting Face)



Metric Parallel Female Port

Dash Size	Thread Pitch	Male Thread O.D. (mm)	Female Thread I.D. (mm)
10	1.0	10	8.5
12	1.5	12	10.5
14	1.5	14	12.5
16	1.5	16	14.5
18	1.5	18	16.5
20	1.5	20	18.5
22	1.5	22	20.5
24	1.5	24	22.5
26	1.5	26	24.5
27D	1.5	27	25.5
27	2.0	27	25.5
30	2.0	30	28.5
33D	1.5	33	31.5
33	2.0	33	31.5
42	2.0	42	40.5
48	2.0	48	46.5
52	2.0	52	50.5

Contents of page series **H**

Metric (Port Connection O-Ring / Washer).....	H2
<i>Converted to</i> ○ NPT.....	H2
<i>Converted to</i> ○ JIC.....	H2
<i>Converted to</i> ○ ORFS.....	H3

Metric Parallel Port Plug Allen Type (with Captive Seal*)



Part Number	Metric
0PHH-10-WD	10x1.0
0PHH-12-WD	12x1.5
0PHH-14-WD	14x1.5
0PHH-16-WD	16x1.5
0PHH-18-WD	18x1.5
0PHH-20-WD	20x1.5
0PHH-22-WD	22x1.5
0PHH-24-WD	24x1.5
0PHH-26-WD	26x1.5
0PHH-27-WD	27x2.0
0PHH-33-WD	33x2.0
0PHH-42-WD	42x2.0
0PHH-48-WD	48x2.0

*Standard seal material is Buna-N. Viton can be quoted upon request.

Metric Port Male to NPT Female Solid (Washer / O-Ring)



Part Number	Metric	NPT
50HN-10-02	10x1.0	1/8-27
50HN-12-02	12x1.5	1/8-27
50HN-12-04	12x1.5	1/4-18
50HN-14-04	14x1.5	1/4-18
50HN-16-06	16x1.5	3/8-18
50HN-16-08	16x1.5	1/2-14
50HN-18-06	18x1.5	3/8-18
50HN-18-08	18x1.5	1/2-14
50HN-20-06	20x1.5	3/8-18
50HN-20-08	20x1.5	1/2-14
50HN-20-12	20x1.5	3/4-14
50HN-22-06	22x1.5	3/8-18
50HN-22-08	22x1.5	1/2-14
50HN-22-12	22x1.5	3/4-14
50HN-26-12	26x1.5	3/4-14
50HN-27-12	27x2.0	3/4-14

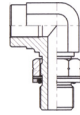
50HN series continued next column

50HN series continued from last column



Part Number	Metric	NPT
50HN-30-12	30x2.0	3/4-14
50HN-30D-12	30x1.5	3/4-14
50HN-33-16	33x2.0	1-11½
50HN-33D-16	33x1.5	1-11½
50HN-42-20	42x2.0	1¼-11½
50HN-48-24	48x2.0	1½-11½

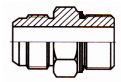
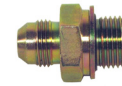
Metric Port Male to Female NPT Solid Adjustable 90° Elbow (Nut / Washer / O-Ring)



This series priced upon request

Part Number	Metric	NPT
59HN-10-02	10x1.0	1/8-27
59HN-12-02	12x1.5	1/8-27
59HN-12-04	12x1.5	1/4-18
59HN-14-04	14x1.5	1/4-18
59HN-16-06	16x1.5	3/8-19
59HN-16-08	16x1.5	1/2-14
59HN-18-06	18x1.5	3/8-18
59HN-18-08	18x1.5	1/2-14
59HN-22-02	22x1.5	1/8-27
59HN-22-06	22x1.5	3/8-18
59HN-22-08	22x1.5	1/2-14
59HN-26-12	26x1.5	3/4-14
59HN-27-12	27x2.0	3/4-14
59HN-33-16	33x2.0	1-11½
59HN-42-20	42x2.0	1¼-11½
59HN-48-24	48x2.0	1½-11½

JIC Male to Metric Port Male (Washer / O-Ring)

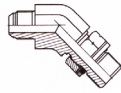
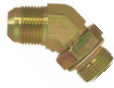


Part Number	JIC	Metric
10JH-04-10	7/16-20	10x1.0
10JH-04-12	7/16-20	12x1.5
10JH-04-14	7/16-20	14x1.5
10JH-04-16	7/16-20	16x1.5
10JH-04-18	7/16-20	18x1.5
10JH-05-10	1/2-20	10x1.0
10JH-05-12	1/2-20	12x1.5
10JH-05-14	1/2-20	14x1.5
10JH-05-18	1/2-20	18x1.5
10JH-06-12	9/16-18	12x1.5
10JH-06-14	9/16-18	14x1.5
10JH-06-16	9/16-18	16x1.5
10JH-06-18	9/16-18	18x1.5
10JH-08-12	3/4-16	12x1.5
10JH-08-14	3/4-16	14x1.5
10JH-08-16	3/4-16	16x1.5
10JH-08-18	3/4-16	18x1.5
10JH-08-20	3/4-16	20x1.5
10JH-08-22	3/4-16	22x1.5
10JH-08-26	3/4-16	26x1.5
10JH-10-14	7/8-14	14x1.5
10JH-10-16	7/8-14	16x1.5
10JH-10-18	7/8-14	18x1.5
10JH-10-20	7/8-14	20x1.5
10JH-10-22	7/8-14	22x1.5
10JH-12-18	1 1/16-12	18x1.5
10JH-12-22	1 1/16-12	22x1.5
10JH-12-26	1 1/16-12	26x1.5
10JH-12-27A	1 1/16-12	27x1.5
10JH-12-27	1 1/16-12	27x2.0
10JH-12-33	1 1/16-12	33x2.0
10JH-12-42	1 1/16-12	42x2.0
10JH-16-26	15/16-12	26x1.5
10JH-16-27	15/16-12	27x2.0
10JH-16-33	15/16-12	33x2.0
10JH-20-42	15/8-12	42x2.0
10JH-24-48	17/8-12	48x2.0

Metric Parallel Port (Washer / O-Ring)

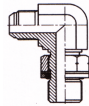
Metric Port

JIC Male to Metric Port Male Adjustable 45° Elbow (Nut / Washer / O-Ring)



Part Number	JIC	Metric
14JH-04-10	7/16-20	10x1.0
14JH-04-12	7/16-20	12x1.5
14JH-04-14	7/16-20	14x1.5
14JH-05-10	1/2-20	10x1.0
14JH-05-12	1/2-20	12x1.5
14JH-05-14	1/2-20	14x1.5
14JH-06-14	9/16-18	14x1.5
14JH-06-16	9/16-18	16x1.5
14JH-06-18	9/16-18	18x1.5
14JH-08-16	3/4-16	16x1.5
14JH-08-18	3/4-16	18x1.5
14JH-10-16	7/8-14	16x1.5
14JH-10-18	7/8-14	18x1.5
14JH-10-22	7/8-14	22x1.5
14JH-12-22	1 1/16-12	22x1.5
14JH-12-26	1 1/16-12	26x1.5
14JH-12-27	1 1/16-12	27x2.0
14JH-16-27	1 5/16-12	27x2.0
14JH-16-33	1 5/16-12	33x2.0
14JH-20-42	1 5/8-12	42x2.0
14JH-24-48	1 7/8-12	48x2.0

JIC Male to Metric Port Male Adjustable 90° Elbow (Nut / Washer / O-Ring)



Part Number	JIC	Metric
19JH-04-10	7/16-20	10x1.0
19JH-04-12	7/16-20	12x1.5
19JH-04-14	7/16-20	14x1.5
19JH-05-10	1/2-20	10x1.0
19JH-05-12	1/2-20	12x1.5
19JH-05-14	1/2-20	14x1.5

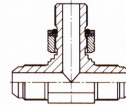
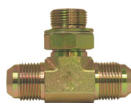
19JH series continued next column

19JH series continued from last column



Part Number	JIC	Metric
19JH-06-14	9/16-18	14x1.5
19JH-06-16	9/16-18	16x1.5
19JH-06-18	9/16-18	18x1.5
19JH-08-14	3/4-16	14x1.5
19JH-08-16	3/4-16	16x1.5
19JH-08-18	3/4-16	18x1.5
19JH-08-22	3/4-16	22x1.5
19JH-10-16	5/8-14	16x1.5
19JH-10-18	5/8-14	18x1.5
19JH-10-20	5/8-14	20x1.5
19JH-10-22	5/8-14	22x1.5
19JH-12-22	1 1/16-12	22x1.5
19JH-12-26	1 1/16-12	26x1.5
19JH-12-27	1 1/16-12	27x2.0
19JH-16-22	1 5/16-12	22x1.5
19JH-16-27	1 5/16-12	27x2.0
19JH-16-33	1 5/16-12	33x2.0
19JH-20-42	1 5/8-12	42x2.0
19JH-24-48	1 7/8-12	48x2.0

JIC Male to Metric Port Male Adjustable Run Tee (Nut / Washer / O-Ring)



Part Number	JIC	JIC	Metric
AJHH-04-04-10	7/16-20	7/16-20	10x1.0
AJHH-04-04-12	7/16-20	7/16-20	12x1.5
AJHH-05-05-10	1/2-20	1/2-20	10x1.0
AJHH-05-05-12	1/2-20	1/2-20	12x1.5
AJHH-05-05-14	1/2-20	1/2-20	14x1.5
AJHH-06-06-14	9/16-18	9/16-18	14x1.5
AJHH-06-06-16	9/16-18	9/16-18	16x1.5
AJHH-08-08-16	3/4-16	3/4-16	16x1.5
AJHH-08-08-18	3/4-16	3/4-16	18x1.5

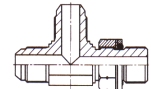
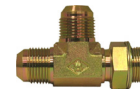
AJHH series continued next column

AJHH series continued from last column



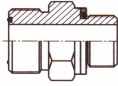
Part Number	JIC	JIC	Metric
AJHH-10-10-18	7/8-14	7/8-14	18x1.5
AJHH-10-10-22	7/8-14	7/8-14	22x1.5
AJHH-12-12-22	1 1/16-12	1 1/16-12	22x1.5
AJHH-12-12-27	1 1/16-12	1 1/16-12	27x2.0
AJHH-16-16-27	1 5/16-12	1 5/16-12	27x2.0
AJHH-16-16-33	1 5/16-12	1 5/16-12	33x2.0
AJHH-20-20-42	1 5/8-12	1 5/8-12	42x2.0
AJHH-24-24-48	1 5/8-12	1 5/8-12	48x2.0

JIC Male to Metric Port Male



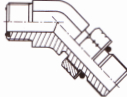
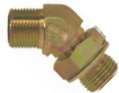
Part Number	JIC	Metric	JIC
AJHH-04-10-04	7/16-20	10x1.0	7/16-20
AJHH-04-12-04	7/16-20	12x1.5	7/16-20
AJHH-05-10-05	1/2-20	10x1.0	1/2-20
AJHH-05-12-05	1/2-20	12x1.5	1/2-20
AJHH-05-14-05	1/2-20	14x1.5	1/2-20
AJHH-06-14-06	9/16-18	14x1.5	9/16-18
AJHH-06-16-06	9/16-18	16x1.5	9/16-18
AJHH-08-16-08	3/4-16	16x1.5	3/4-16
AJHH-08-18-08	3/4-16	18x1.5	3/4-16
AJHH-10-18-10	7/8-14	18x1.5	7/8-14
AJHH-10-22-10	7/8-14	22x1.5	7/8-14
AJHH-12-22-12	1 1/16-12	22x1.5	1 1/16-12
AJHH-12-27-12	1 1/16-12	27x2.0	1 1/16-12
AJHH-16-27-16	1 5/16-12	27x2.0	1 5/16-12
AJHH-16-33-16	1 5/16-12	33x2.0	1 5/16-12
AJHH-20-42-20	1 5/8-12	42x2.0	1 5/8-12
AJHH-24-48-24	1 7/8-12	48x2.0	1 7/8-12

ORS Male to Metric Port Male (Washer / O-Ring)



Part Number	ORFS	Metric
10FH-04-10	9/16-18	10x1.0
10FH-04-12	9/16-18	12x1.5
10FH-04-16	9/16-18	16x1.5
10FH-06-12	11/16-16	12x1.5
10FH-06-14	11/16-16	14x1.5
10FH-06-16	11/16-16	16x1.5
10FH-06-18	11/16-16	18x1.5
10FH-08-16	13/16-16	16x1.5
10FH-08-18	13/16-16	18x1.5
10FH-08-22	13/16-16	22x1.5
10FH-10-18	1-14	18x1.5
10FH-10-22	1-14	22x1.5
10FH-12-22	13/16-12	22x1.5
10FH-12-26	13/16-12	26x1.5
10FH-12-27	13/16-12	27x2.0
10FH-12-33	13/16-12	33x2.0
10FH-16-27	17/16-12	27x2.0
10FH-16-33	17/16-12	33x2.0
10FH-20-33	11/16-12	33x2.0
10FH-20-42	11/16-12	42x2.0
10FH-24-48	2-12	48x2.0

ORS Male to Metric Port Male 45° Adjustable Elbow (Nut / Washer / O-Ring)

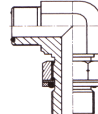


Part Number	ORFS	Metric
14FH-04-10	9/16-18	10x1.0
14FH-06-12	11/16-16	12x1.5
14FH-06-14	11/16-16	14x1.5
14FH-06-16	11/16-16	16x1.5
14FH-08-14	13/16-16	14x1.5
14FH-08-16	13/16-16	16x1.5
14FH-08-18	13/16-16	18x1.5
14FH-10-18	1-14	18x1.5
14FH-10-22	1-14	22x1.5

14FH series continued from last column

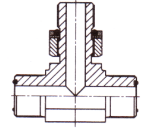


ORS Male to Metric Port Male Adjustable 90° Elbow (Nut / Washer / O-Ring)



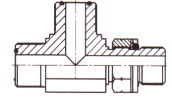
Part Number	ORFS	Metric
19FH-04-10	9/16-18	10x1.0
19FH-04-12	9/16-18	12x1.5
19FH-06-14	11/16-16	14x1.5
19FH-06-16	11/16-16	16x1.5
19FH-08-14	13/16-16	14x1.5
19FH-08-16	13/16-16	16x1.5
19FH-08-18	13/16-16	18x1.5
19FH-08-22	13/16-16	22x1.5
19FH-10-18	1-14	18x1.5
19FH-10-22	1-14	22x1.5
19FH-10-27	1-14	27x2.0
19FH-12-27	13/16-12	27x2.0
19FH-12-33	13/16-12	33x2.0
19FH-16-33	17/16-12	33x2.0
19FH-16-42	17/16-12	42x2.0
19FH-20-42	11/16-12	42x2.0
19FH-20-48	11/16-12	48x2.0
19FH-24-48	2-12	48x2.0

ORS Male to Metric Port Male Adjustable Branch Tee



Part Number	ORFS	ORFS	Metric
AFFH-04-04-10	9/16-18	9/16-18	10x1.0
AFFH-04-04-12	9/16-18	9/16-18	12x1.5
AFFH-04-04-14	9/16-18	9/16-18	14x1.5
AFFH-06-06-14	11/16-16	11/16-16	14x1.5
AFFH-06-06-16	11/16-16	11/16-16	16x1.5
AFFH-08-08-16	13/16-16	13/16-16	16x1.5
AFFH-08-08-18	13/16-16	13/16-16	18x1.5
AFFH-08-08-22	13/16-16	13/16-16	22x1.5
AFFH-10-10-22	1-14	1-14	22x1.5
AFFH-12-12-27	13/16-12	13/16-12	27x1.5
AFFH-16-16-33	17/16-12	17/16-12	33x1.5

ORS Male to Metric Port Male Adjustable Run Tee (Nut / Washer / O-Ring)



Part Number	ORFS	Metric	ORFS
AFHF-04-10-04	9/16-18	10x1.0	9/16-18
AFHF-04-12-04	9/16-18	12x1.5	9/16-18
AFHF-04-14-04	9/16-18	14x1.5	9/16-18
AFHF-06-14-06	11/16-16	14x1.5	11/16-16
AFHF-06-16-06	11/16-16	16x1.5	11/16-16
AFHF-08-16-08	13/16-16	16x1.5	13/16-16
AFHF-08-18-08	13/16-16	18x1.5	13/16-16
AFHF-08-22-08	13/16-16	22x1.5	13/16-16
AFHF-10-22-10	1-14	22x1.5	1-14
AFHF-12-27-12	13/16-12	27x2.0	13/16-12
AFHF-16-33-16	17/16-12	33x2.0	17/16-12

14FH series continued next column