EC79 Certified



HD Series O-Ring Face Seal Fittings

VALVE AND FLOW CONTROL SPECIALISTS SERVICE AND RELIABILITY Man

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VALVE AND FLOW CONTROL SPECIALISTS SERVICE AND RELIABILITY

IDK-LOK HD Series

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All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

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Connector HDSMC-N	Swivel Run Tee	2	6	Bulkhead Locknut HDBN		30

All dimensions are in millimeters unless otherwise specified and only for reference subject to change. www.dklok.com



DK-LOK HD Series

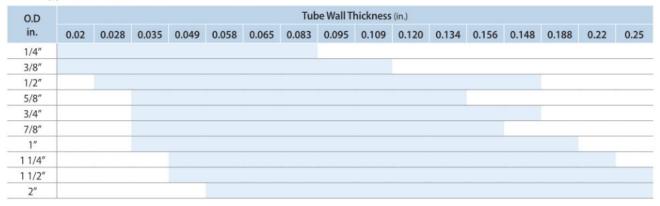
Technical Information

What is HD Series O-Ring Face Seal Fittings?

HD Series O-Ring Face Seal Fittings is manufactured in strict accordance with the requirements of SAE J1453. HD Series O-Ring Face Seal Fittings are composed of Body, Nut, O-ring and Sleeve, and can be completely sealed by O-ring. A 90-degree expanded tubing or brazed sleeve compresses and seals the O-ring in the precision machined groove of the fitting body. This approach is suitable for higher pressure hydraulic systems and provides superior sealing performance. It is also suitable for piping systems with high vibration and continuous impact pressure. HD Series O-Ring Face Seal Fittings are available in a variety of sizes for tube diameters and wall thicknesses and are easily adaptable to tubes of inches and meters.

The outer diameter and the wall thickness of the tube is applicable please refer to Table 1.

Table 1. Applicable Tube O.D and Wall Thickness



O.D							Tube W	all Thickn	ess (mm)						
mm	0.5	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5	4.0	5.0	6.0	7.0
6															
8															
10															
12															
14															
15, 16, 18															
20															
22															
25															
28															
30															
32															
35															
38															

Table 2. Standard Material

		Material
٢	art	Stainless Steel
D- d-	Bar Stock	ASTM A479 TYPE316
Body	Forging	ASTM A182 F316
Sle	eeve	ASTM A479 TYPE316
Braze	d Sleeve	ASTM A262 TYPE316L
1	lut	ASTM A479 TYPE316

Design and Construction

HD Series O-Ring Face Seal Fittings consist of four main parts: Body, Sleeve, O-ring and nut.

Body

- The fitting body can be suitably applied to the piping system by providing various shapes and flow paths.
- O-ring grooves on the body surface are machined precisely to ensure perfect sealing.
- In addition, O-ring grooves of all fitting bodies include an O-ring of an appropriate size basically for convenient use.
- Straight-line products are basically made of cold drawn bar stock, Elbow, Tee and Cross are forged to improve strength and extend life.
- O-ring grooves meet the improved dimensional requirements to prevent O-ring deviation of Style "B" of SAE J1453.

Sleeve for 90° expanded tubing

- This is a method of compressing the O-ring of the fitting body by expanding the tube end to 90°.
- With the sleeve in place, leaving the correct length for a 90° expansion at the end of the tube, use a 90° expander to expand the tube.
- When the tube is extended to 90°, the tube and the sleeve are fixed to each other, and the 90° expansion surface should have a good roughness.
- Tubes with poor surface roughness are damaged when they come into contact with the O-ring of the body, resulting in reduced sealing capacity and reduced service life.

Brazed sleeve

- It brazes and secures the tube and sleeve, and the sleeve compresses the O-ring of the fitting body.
- Since the sleeve surface contacts the O-ring of the fitting body, the sleeve itself should have good roughness.

Nut

- The screws of the body and the nut are manufactured according to ASME / ANSI B1.1.
- Stainless steel is silver plated on the threads of the nut to prevent galling of the screws during assembly.
- · Carbon steel is basically galvanized.

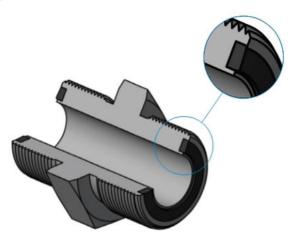


Fig. A1 - Captive O-ring Groove (CORG) Cutaway with DK-Lok's trap seal

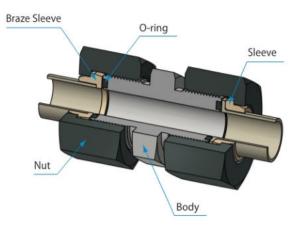


Fig. A1 - DK-Lok's Union cutaway with flanged and brazed assemblies



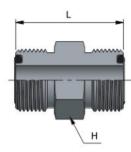
Metric

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DK-LOK

Union HDU





Fractional

Part No.	End	Size	н		Dynamic
	Tube O.D		HEX (in.)	L (mm)	Pressure (psig)
HDU-4T	1/4	1/4	5/8	27.4	9,200
HDU-6T	3/8	3/8	3/4	31.0	9,200
HDU6T-4T	3/8	1/4	3/4	30.0	9,200
HDU-8T	1/2	1/2	7/8	35.6	9,200
HDU8T-6T	1/2	3/8	7/8	33.5	9,200
HDU-10T	5/8	5/8	1 1/16	42.4	6,000
HDU10T-8T	5/8	1/2	1 1/16	39.9	6,000
HDU-12T	3/4	3/4	1 1/4	47.0	6,000
HDU12T-8T	3/4	1/2	1 1/4	42.9	6,000
HDU12T-10T	3/4	5/8	1 1/4	45.5	6,000
HDU-16T	1	1	1 1/2	49.5	6,000
HDU16T-12T	1	3/4	1 1/2	49.0	6,000
HDU-20T	1 1/4	1 1/4	1 3/4	51.6	6,000
HDU20T-16T	1 1/4	1	1 3/4	51.6	6,000
HDU-24T	1 1/2	1 1/2	2 1/8	53.1	5,000
HDU-32T	2	2	2 3/4	63.0	3,000

Part No.	End Size Tube O.D (mm)	H HEX (mm)	L (mm)	Dynamic Pressure (psig)
HDU-6M	6	17	27.5	9,200
HDU-8M	8,10	19	31.0	9,200
HDU-12M	12	22	35.5	9,200
HDU-14M	14,15,16	27	42.5	6,000
HDU-18M	18,20	32	47.0	6,000
HDU-22M	22,25	41	49.5	6,000
HDU-28M	28,30,32	46	51.5	6,000
HDU-35M	35,38	55	53.0	5,000

* Size 32 is not included in SAE J1453.

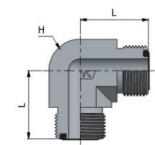
Union Elbow





Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	Dynamic Pressure (psig)
HDL-4T	1/4	9/16	21.6	9,200
HDL-6T	3/8	3/4	24.9	9,200
HDL-8T	1/2	3/4	27.9	9,200
HDL-10T	5/8	1 1/16	33.5	6,000
HDL-12T	3/4	1 3/16	37.6	6,000
HDL-16T	1	1 7/16	41.4	6,000
HDL-20T	1 1/4	1 5/8	44.4	5,000
HDL-24T	1 1/2	1 7/8	49.0	4,000
HDL-32T	2	2 1/2	70.1	3,000



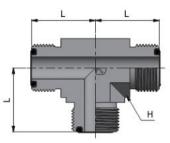
Metric

Part No.	End Size Tube O.D (mm)	H HEX (mm)	L (mm)	Dynamic Pressure (psig)
HDL-6M	6	14	21.5	9,200
HDL-8M	8,10	19	25.0	9,200
HDL-12M	12	19	28.0	9,200
HDL-14M	14,15,16	27	33.5	6,000
HDL-18M	18,20	30	37.5	6,000
HDL-22M	22,25	36	41.5	6,000
HDL-28M	28,30,32	41	44.5	5,000
HDL-35M	35,38	50	49.0	4,000

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Union Tee





Fractional

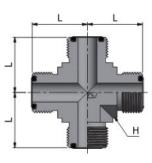
Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	Dynamic Pressure (psig)
HDT-4T	1/4	9/16	21.6	9,200
HDT-6T	3/8	3/4	24.9	9,200
HDT-8T	1/2	3/4	27.9	9,200
HDT-10T	5/8	1 1/16	33.5	6,000
HDT-12T	3/4	1 3/16	37.6	6,000
HDT-16T	1	1 7/16	41.4	6,000
HDT-20T	1 1/4	1 5/8	44.4	5,000
HDT-24T	1 1/2	1 7/8	49.0	4,000
HDT-32T	2	2 1/2	70.1	3,000

Metric

Part No.	End Size Tube O.D (mm)	H HEX (mm)	L (mm)	Dynamic Pressure (psig)
HDT-6M	6	14	21.5	9,200
HDT-8M	8,10	19	25.0	9,200
HDT-12M	12	19	28.0	9,200
HDT-14M	14,15,16	27	33.5	6,000
HDT-18M	18,20	30	37.5	6,000
HDT-22M	22,25	36	41.5	6,000
HDT-28M	28,30,32	41	44.5	5,000
HDT-35M	35,38	50	49.0	4,000

Union Cross





Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	Dynamic Pressure (psig)
HDX-4T	1/4	9/16	21.6	9,200
HDX-6T	3/8	3/4	24.9	9,200
HDX-8T	1/2	3/4	27.9	9,200
HDX-10T	5/8	1 1/16	33.5	6,000
HDX-12T	3/4	1 3/16	37.6	6,000
HDX-16T	1	1 7/16	41.4	6,000
HDX-20T	1 1/4	1 5/8	44.4	5,000

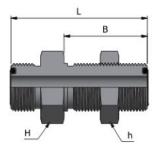


Metric

DK-LOK

Bulkhead Union





Fractional

Part No.	End Size Tube O.D (in.)	H,h HEX (in.)	B (mm)	L (mm)	Dynamic Pressure (psig)
HDUB-4T	1/4	13/16	31.5	48.3	9,200
HDUB-6T	3/8	1	34.0	53.1	9,200
HDUB-8T	1/2	1 1/8	36.6	58.4	9,200
HDUB-10T	5/8	1 5/16	40.4	66.5	6,000
HDUB-12T	3/4	1 1/2	41.4	69.1	6,000
HDUB-16T	1	1 3/4	41.9	70.1	6,000
HDUB-20T	1 1/4	2	41.9	70.1	6,000
HDUB-24T	1 1/2	2 3/8	41.9	70.1	5,000

Part No.	End Size Tube O.D (mm)	H,h HEX (in.)	B (mm)	L (mm)	Dynamic Pressure (psig)
HDUB-6M	6	22	31.5	48.0	9,200
HDUB-8M	8,10	27	34.0	53.0	9,200
HDUB-12M	12	30	36.5	58.5	9,200
HDUB-14M	14,15,16	36	40.5	66.5	6,000
HDUB-18M	18,20	41	41.5	69.0	6,000
HDUB-22M	22,25	46	42.0	70.0	6,000
HDUB-28M	28,30,32	50	42.0	70.0	6,000
HDUB-35M	35,38	60	42.0	70.0	5,000

Bulkhead Elbow



Fractional

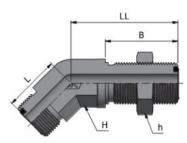
Part No.	End Size Tube O.D (in.)	h HEX (in.)	H HEX (in.)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDBL-4T	1/4	13/16	9/16	31.5	22.6	47.0	9,200
HDBL-6T	3/8	1	3/4	34.0	25.9	52.1	9,200
HDBL-8T	1/2	1 1/8	3/4	36.6	29.0	55.6	9,200
HDBL-10T	5/8	1 5/16	1 1/16	40.4	34.5	63.0	6,000
HDBL-12T	3/4	1 1/2	1 3/16	41.4	38.6	67.1	6,000
HDBL-16T	1	1 3/4	17/16	41.9	42.4	71.1	6,000
HDBL-20T	1 1/4	2	1 5/8	41.9	45.5	75.4	5,000
HDBL-24T	1 1/2	2 3/8	1 7/8	41.9	49.5	79.5	4,000

Metric

Part No.	End Size Tube O.D (mm)	H HEX (mm)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDBL-6M	6	14	31.5	22.5	47.0	9,200
HDBL-8M	8,10	19	34.0	26.0	52.0	9,200
HDBL-12M	12	19	36.5	29.0	55.5	9,200
HDBL-14M	14,15,16	27	40.5	34.5	63.0	6,000
HDBL-18M	18,20	30	41.5	38.5	67.0	6,000
HDBL-22M	22,25	36	42.0	42.5	71.0	6,000
HDBL-28M	28,30,32	41	42.0	45.5	75.5	5,000
HDBL-35M	35,38	50	42.0	49.5	79.5	4,000

45°Bulkhead Elbow





Fractional

Part No.	End Size Tube 0.D (in.)	h HEX (in.)	H HEX (in.)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDBLB-4T	1/4	13/16	9/16	31.5	16.0	43.9	9,200
HDBLB-6T	3/8	1	3/4	34.0	19.0	48.5	9,200
HDBLB-8T	1/2	1 1/8	3/4	36.6	20.6	51.0	9,200
HDBLB-10T	5/8	1 5/16	1 1/16	40.4	23.6	56.4	6,000
HDBLB-12T	3/4	1 1/2	1 3/16	41.4	25.9	60.4	6,000
HDBLB-16T	1	1 3/4	1 7/16	41.9	30.0	65.0	6,000
HDBLB-20T	1 1/4	2	1 5/8	41.9	32.0	67.1	5,000
HDBLB-24T	1 1/2	2 3/8	1 7/8	41.9	37.1	67.1	4,000

Metric

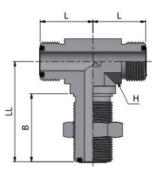
Part No.	End Size Tube O.D (mm)	H HEX (mm)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDBLB-6M	6	14	31.5	16.0	44.0	9,200
HDBLB-8M	8,10	19	34.0	19.0	48.5	9,200
HDBLB-12M	12	19	36.5	20.5	51.0	9,200
HDBLB-14M	14,15,16	27	40.5	23.5	56.5	6,000
HDBLB-18M	18,20	30	41.5	26.0	60.5	6,000
HDBLB-22M	22,25	36	42.0	30.0	65.0	6,000
HDBLB-28M	28,30,32	41	42.0	32.0	67.0	5,000
HDBLB-35M	35,38	50	42.0	37.0	67.0	4,000





Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDBBT-4T	1/4	9/16	31.5	22.6	47.0	9,200
HDBBT-6T	3/8	3/4	34.0	25.9	52.1	9,200
HDBBT-8T	1/2	3/4	36.6	29.0	55.6	9,200
HDBBT-10T	5/8	1 1/16	40.4	34.5	63.0	6,000
HDBBT-12T	3/4	1 3/16	41.4	38.6	67.1	6,000
HDBBT-16T	1	1 7/16	41.9	42.4	71.1	6,000
HDBLB-20T	1 1/4	1 5/8	41.9	32.0	67.1	5,000
HDBLB-24T	1 1/2	1 7/8	41.9	37.1	67.1	4,000



Metric

Part No.	End Size Tube O.D (mm)	H HEX (mm)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDBBT-6M	6	14	31.5	22.5	47.0	9,200
HDBBT-8M	8,10	19	34.0	26.0	52.0	9,200
HDBBT-12M	12	19	36.5	29.0	55.5	9,200
HDBBT-14M	14,15,16	27	40.5	34.5	63.0	6,000
HDBBT-18M	18,20	30	41.5	38.5	67.0	6,000
HDBBT-22M	22,25	36	42.0	42.5	71.0	6,000
HDBBT-28M	28,30,32	41	42.0	45.5	75.5	5,000
HDBBT-35M	35,38	50	42.0	49.5	79.5	4,000

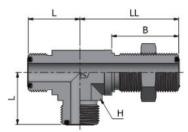


Metric

DK-LOK

Bulkhead Run Tee





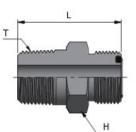
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Part No.	End Size Tube O.D (in.)	H HEX (in.)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDRBT-4T	1/4	9/16	31.5	22.6	47.0	9,200
HDRBT-6T	3/8	3/4	34.0	25.9	52.1	9,200
HDRBT-8T	1/2	3/4	36.6	29.0	55.6	9,200
HDRBT-10T	5/8	1 1/16	40.4	34.5	63.0	6,000
HDRBT-12T	3/4	1 3/16	41.4	38.6	67.1	6,000
HDRBT-16T	1	17/16	41.9	42.4	71.1	6,000
HDRBT-20T	1 1/4	1 5/8	41.9	45.5	70.9	5,000
HDRBT-24T	1 1/2	1 7/8	41.9	49.5	79.5	4,000

Part No.	End Size Tube O.D (in.)	H HEX (mm)	B (mm)	L (mm)	LL (mm)	Dynamic Pressure (psig)
HDRBT-6M	6	14	31.5	22.5	47.0	9,200
HDRBT-8M	8,10	19	34.0	26.0	52.0	9,200
HDRBT-12M	12	19	36.5	29.0	55.5	9,200
HDRBT-14M	14,15,16	27	40.5	34.5	63.0	6,000
HDRBT-18M	18,20	30	41.5	38.5	67.0	6,000
HDRBT-22M	22,25	36	42.0	42.5	71.0	6,000
HDRBT-28M	28,30,32	41	42.0	45.5	71.0	5,000
HDRBT-35M	35,38	50	42.0	49.5	79.5	4,000

Male Connector





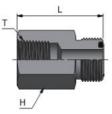
Fractional

	E	End Size	н		Dynamic
Part No.	Tube O.D (in.)	T NPT	HEX (in.)	(mm)	Pressure (psig)
HDMC4T-2N	1/4	1/8 - 27	5/8	27.2	6,000
HDMC4T-4N	1/4	1/4 - 18	5/8	32.0	6,000
HDMC4T-6N	1/4	3/8 - 18	3/4	33.5	6,000
HDMC4T-8N	1/4	1/2 - 14	7/8	38.6	6,000
HDMC6T-2N	3/8	1/8 - 27	3/4	29.5	6,000
HDMC6T-4N	3/8	1/4 - 18	3/4	31.7	6,000
HDMC6T-6N	3/8	3/8 - 18	3/4	34.0	6,000
HDMC6T-8N	3/8	1/2 - 14	7/8	39.4	6,000
HDMC8T-4N	1/2	1/4 - 18	7/8	37.6	6,000
HDMC8T-6N	1/2	3/8 - 18	7/8	37.6	6,000
HDMC8T-8N	1/2	1/2 - 14	7/8	41.7	6,000
HDMC8T-12N	1/2	3/4 - 14	1 1/8	42.9	6,000
HDMC10T-8N	5/8	1/2 - 14	1 1/16	46.2	6,000
HDMC10T-12N	5/8	3/4 - 14	11/8	46.2	5,500
HDMC12T-8N	3/4	1/2 - 14	11/4	49.0	6,000
HDMC12T-12N	3/4	3/4 - 14	11/4	49.0	6,000
HDMC12T-16N	3/4	1 - 111/2	13/8	54.1	4,500
HDMC16T-12N	1	3/4 - 14	11/2	50.8	5,500
HDMC16T-16N	1	1 - 111/2	11/2	55.6	4,500
HDMC16T-20N	1	1 1/4 - 11 1/2	13/4	58.4	3,000
HDMC20T-12N	1 1/4	3/4 - 14	7/8	51.3	4,500
HDMC20T-16N	1 1/4	1 - 11 1/2	17/8	57.7	4,500
HDMC20T-20N	1 1/4	1 1/4 - 11 1/2	17/8	58.4	4,000
HDMC24T-24N	1 1/2	1 1/2 - 11 1/2	21/8	61.0	3,000

Н	D	CF	-1	J

Female Connector





Fractional

	En	End Size			Dynamic
Part No.	Tube O.D (in.)	T NPT	HEX (in.)	(mm)	Pressure (psig)
HDCF4T-2N	1/4	1/8 - 27	5/8	26.2	6,000
HDCF4T-4N	1/4	1/4 - 18	3/4	31.7	6,000
HDCF6T-4N	3/8	1/4 - 18	3/4	33.0	6,000
HDCF6T-6N	3/8	3/8 - 18	7/8	34.0	6,000
HDCF8T-6N	1/2	3/8 - 18	7/8	34.0	6,000

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

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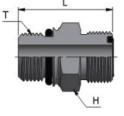
Male Connector

Fractional / Metric

Metric Straight Thread Connector

HDMC-MO





Fractional / Metric

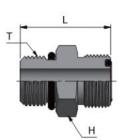
		End Siz	e	н		Dynamic
Part No.	Tuk	be O.D	Т	HEX	L (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	(((((()))))))))))))))))))))))))))))))))	(psig)
HDMC4T-12M150	1/4	6	M12X1.5	17	28.5	9,200
HDMC4T-14M150	1/4	6	M14X1.5	19	29.5	9,200
HDMC6T-12M150	3/8	8,10	M12X1.5	22	32.0	9,200
HDMC6T-14M150	3/8	8,10	M14X1.5	22	32.0	9,200
HDMC6T-16M150	3/8	8,10	M16X1.5	22	33.5	9,200
HDMC6T-18M150	3/8	8,10	M18X1.5	24	36.1	9,200
HDMC8T-14M150	1/2	12	M14X1.5	24	35.1	9,200
HDMC8T-16M15O	1/2	12	M16X1.5	24	36.6	9,200
HDMC8T-18M150	1/2	12	M18X1.5	24	38.1	9,200
HDMC8T-22M15O	1/2	12	M22X1.5	27	39.6	6,000
HDMC8T-27M200	1/2	12	M27X2.0	32	44.2	6,000
HDMC10T-18M15O	5/8	14,15,16	M18X1.5	27	41.0	6,000
HDMC10T-22M15O	5/8	14,15,16	M22X1.5	27	42.0	6,000
HDMC10T-27M20O	5/8	14,15,16	M27X2.0	32	47.0	6,000
HDMC12T-22M15O	3/4	18,20	M22X1.5	32	45.0	6,000
HDMC12T-27M20O	3/4	18,20	M27X2.0	32	48.5	6,000
HDMC12T-33M200	3/4	18,20	M33X2.0	41	51.5	6,000
HDMC16T-27M20O	1	22.26	M27X2.0	41	33.6	6,000
HDMC16T-33M20O	1	22,25	M33X2.0	41	52.0	6,000
HDMC20T-33M20O	1 1/4	28,30,32	M33X2.0	46	35.1	5,000
HDMC20T-42M200	1 1/4	28,30,32	M42X2.0	50	54.5	5,000
HDMC24T-48M200	1 1/2	35,38	M48X2.0	55	57.0	5,000

		End Siz	e	н	L (mm)	Dynamic
Part No.	Tul	be O.D	Т	HEX		Pressure
	(in.)	(mm)	PF	(mm)	(man)	(psig)
HDMC4T-2GE	1/4	6	1/8 - 28	17	25.7	9,200
HDMC4T-4GE	1/4	6	1/4 - 19	19	30.5	9,200
HDMC4T-6GE	1/4	6	3/8 - 19	22	31.6	9,200
HDMC4T-8GE	1/4	6	1/2 - 14	27	35.4	6,000
HDMC6T-2GE	3/8	8,10	1/8 - 28	19	31.1	9,200
HDMC6T-4GE	3/8	8,10	1/4 - 19	19	31.9	9,200
HDMC6T-6GE	3/8	8,10	3/8 - 19	22	33.0	9,200
HDMC6T-8GE	3/8	8,10	1/2 - 14	27	36.5	6,000
HDMC6T-12GE	3/8	8,10	3/4 - 14	32	40.3	6,000
HDMC8T-4GE	1/2	12	1/4 - 19	22	37.5	9,200
HDMC8T-6GE	1/2	12	3/8 - 19	22	34.6	9,200
HDMC8T-8GE	1/2	12	1/2 - 14	27	38.4	6,000
HDMC8T-12GE	1/2	12	3/4 - 14	32	41.9	6,000
HDMC10T-6GE	5/8	14,15,16	3/8 - 19	27	42.4	9,200
HDMC10T-8GE	5/8	14,15,16	1/2 - 14	27	41.1	6,000
HDMC10T-12GE	5/8	14,15,16	3/4 - 14	32	44.3	6,000
HDMC12T-8GE	3/4	18,20	1/2 - 14	32	48.5	6,000
HDMC12T-12GE	3/4	18,20	3/4 - 14	32	46.1	6,000
HDMC12T-16GE	3/4	18,20	1 - 11	41	47.5	6,000
HDMC12T-20GE	3/4	18,19,20	1 1/4 - 11	50	53.0	6,000
HDMC16T-12GE	1	22,25	3/4 - 14	38	50.3	6,000
HDMC16T-16GE	1	22,25	1 - 11	41	49.8	6,000
HDMC16T-20GE	1	22,25	1 1/4 - 11	50	53.8	6,000
HDMC16T-24GE	1	22,25	1 1/2 - 11	55	57.5	5,000
HDMC20T-16GE	1 1/4	28,30,32	1 - 11	48	55.9	6,000
HDMC20T-20GE	1 1/4	and the spin second second	1 1/4 - 11	50	53.8	6,000
HDMC20T-24GE	1 1/4		1 1/2 - 11	55	57.6	5,000
HDMC24T-24GE	1 1/2	38	1 1/2 - 11	55	57.6	5,000



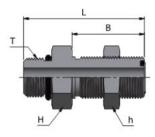
Straight Thread Connector





Straight Thread Bulkhead Connector

HDMCB-U



Fractional

Fractional

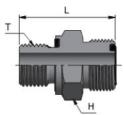
	E	nd Size	н	1	Dynamic
Part No.	Tube 0.D (in.)	T UN/UNF	HEX (mm)	(mm)	Pressure (psig)
HDMC4T-4U	1/4	7/16 - 20	5/8	28.7	9,200
HDMC4T-5U	1/4	1/2 - 20	5/8	29.5	9,200
HDMC4T-6U	1/4	9/16 - 18	3/4	30.5	9,200
HDMC4T-8U	1/4	3/4 - 16	7/8	33.5	9,200
HDMC6T-4U	3/8	7/16 - 20	3/4	34.0	9,200
HDMC6T-5U	3/8	1/2 - 20	3/4	31.0	9,200
HDMC6T-6U	3/8	9/16 - 18	3/4	32.0	9,200
HDMC6T-8U	3/8	3/4 - 16	7/8	35.0	9,200
HDMC6T-10U	3/8	7/8 - 14	1	38.6	9,200
HDMC6T-12U	3/8	1 1/16 - 12	1 1/4	42.4	9,200
HDMC8T-4U	1/2	7/16 - 20	7/8	36.6	9,200
HDMC8T-6U	1/2	9/16 - 18	7/8	37.6	6,000
HDMC8T-8U	1/2	3/4 - 16	7/8	36.6	9,200
HDMC8T-10U	1/2	7/8 - 14	1	40.4	6,000
HDMC8T-12U	1/2	1 1/16 - 12	1 1/4	44.4	6,000
HDMC8T-16U	1/2	1 5/16 - 12	1 1/2	45.5	6,000
HDMC10T-6U	5/8	9/16 - 18	1 1/16	41.4	6,000
HDMC10T-8U	5/8	3/4 - 16	1 1/16	45.0	6,000
HDMC10T-10U	5/8	7/8 - 14	1 1/16	42.9	6,000
HDMC10T-12U	5/8	1 1/16 - 12	1 1/4	47.0	6,000
HDMC10T-16U	5/8	1 5/16 - 12	1 1/2	48.0	6,000
HDMC12T-6U	3/4	9/16 - 16	1 1/4	45.0	6,000
HDMC12T-8U	3/4	3/4 - 16	1 1/4	48.5	6,000
HDMC12T-10U	3/4	7/8 - 14	1 1/4	50.5	6,000
HDMC12T-12U	3/4	1 1/16 - 12	1 1/4	48.5	6,000
HDMC12T-16U	3/4	1 5/16 - 12	1 1/2	49.5	6,000
HDMC14T-14U	7/8	1 3/16 - 12	1 3/8	48.5	6,000
HDMC16T-8U	1	3/4 - 16	1 1/2	49.8	6,000
HDMC16T-10U	1	7/8 - 14	1 1/2	52.1	6,000
HDMC16T-12U	1	1 1/16 - 12	1 1/2	54.6	6,000
HDMC16T-16U	1	1 5/16 - 12	1 1/2	50.0	6,000
HDMC16T-20U	1	1 5/8 - 12	1 7/8	52.6	6,000
HDMC16T-24U	1	1 7/8 - 12	2 1/8	54.1	6,000
HDMC20T-16U	1 1/4	1 5/16 - 12	1 7/8	57.9	6,000
HDMC20T-20U	1 1/4	1 5/8 - 12	1 7/8	52.6	6,000
HDMC20T-24U	1 1/4	1 7/8 - 12	2 1/8	54.1	5,000
HDMC24T-20U	1 1/2	1 5/8 - 12	2 1/8	59.4	5,000
HDMC24T-24U	1 1/2	1 7/8 - 12	2 1/8	54.1	5,000
HDMC32T-32U	2	2 1/2 - 12	2 3/4	58.9	3,000

	En	End Size		н			Dynamic
Part No.	Tube 0.D (in.)	T UN/UNF	HEX (in.)	HEX (in.)	B (mm)	L (mm)	Pressure (psig)
HDMCB4T-4U	1/4	7/16 - 20	13/16	13/16	31.5	54.4	9,200
HDMCB6T-6U	3/8	9/16 - 18	1	1	34.0	58.7	9,200
HDMCB8T-8U	1/2	3/4 - 16	1 1/8	1 1/8	36.6	66.0	9,200
HDMCB10T-10U	5/8	7/8 - 14	1 5/16	1 5/16	40.6	68.3	6,000
HDMCB12T-12U	3/4	1 1/16 - 12	1 1/2	1 1/2	41.7	73.4	6,000
HDMCB16T-16U	1	1 5/16 - 12	1 3/4	13/4	42.2	74.9	6,000

Male Connector

HDMC-ME





Fractional / Metric

		End Siz	e	н		Dynamic Pressure	
Part No.	Tul	be O.D	т	HEX	L (mm)		
	(in.)	(mm)	Metric	(mm)	(mm)	(psig)	
HDMC4T-12M15E	1/4	6	M12X1.5	17	29.7	9,200	
HDMC4T-14M15E	1/4	6	M14X1.5	19	30.5	9,200	
HDMC6T-14M15E	3/8	8,10	M14X1.5	22	31.9	9,200	
HDMC6T-16M15E	3/8	8,10	M16X1.5	22	31.9	9,200	
HDMC8T-16M15E	1/2	12	M16X1.5	22	32.0	9,200	
HDMC8T-18M15E	1/2	12	M18X1.5	24	34.6	9,200	
HDMC10T-22M15E	5/8	14,15,16	M22X1.5	27	41.1	6,000	
HDMC12T-22M15E	3/4	18,20	M22X1.5	32	42.7	6,000	
HDMC12T-27M20E	3/4	18,20	M27X2.0	32	46.1	6,000	
HDMC16T-33M20E	1	22,25	M33X2.0	41	49.8	6,000	
HDMC20T-42M20E	1 1/4	28,30,32	M42X2.0	50	54.0	5,000	

Long Straight Thread Connector

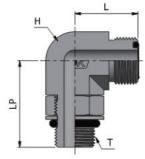


Fractional

	End	Size	н		Dynamic	
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	(mm)	Pressure (psig)	
HDMCL4T-4U	1/4	7/16 - 20	5/8	52.6	9,200	
HDMCL6T-4U	3/8	7/16 - 20	3/4	60.7	9,200	
HDMCL6T-6U	3/8	9/16 - 18	3/4	57.7	9,200	
HDMCL8T-8U	1/2	3/4 - 16	7/8	67.8	9,200	
HDMCL10T-10U	5/8	7/8 - 14	1 1/16	79.8	6,000	
HDMCL12T-12U	3/4	1 1/16 - 12	1 1/4	95.5	6,000	
HDMCL16T-16U	1	1 5/16 - 12	1 1/2	105.2	6,000	
HDMC20T-20U	1 1/4	1 5/8 - 12	1 7/8	120.9	6,000	
HDMCL24T-24U	1 1/2	1 7/8 - 12	2 1/8	133.6	5,000	

Straight Thread Elbow



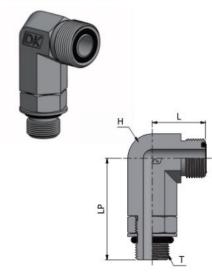


	En	d Size	н		LP	Dynamic
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	L (mm)	(mm)	Pressure (psig)
HDLM4T-4UP	1/4	7/16 - 20	9/16	21.6	33.02	6,000
HDLM4T-6UP	1/4	9/16 - 18	9/16	23.6	37.08	6,000
HDLM4T-8UP	1/4	3/4 - 16	3/4	24.9	40.39	6,000
HDLM6T-4UP	3/8	7/16 - 20	3/4	24.9	35.05	6,000
HDLM6T-5UP	3/8	1/2 - 20	3/4	24.9	35.05	6,000
HDLM6T-6UP	3/8	9/16 - 18	3/4	24.9	37.08	6,000
HDLM6T-8UP	3/8	3/4 - 16	3/4	26.4	40.39	6,000
HDLM6T-10UP	3/8	7/8 - 14	7/8	29.2	50.04	6,000
HDLM6T-12UP	3/8	1 1/16 - 12	1 1/16	32.5	55.12	6,000
HDLM8T-6UP	1/2	9/16 - 18	3/4	27.9	36.58	6,000
HDLM8T-8UP	1/2	3/4 - 16	3/4	27.9	40.39	6,000
HDLM8T-10UP	1/2	7/8 - 14	7/8	30.7	50.04	6,000
HDLM8T-12UP	1/2	1 1/16 - 12	1 3/16	33.5	55.12	6,000
HDLM10T-8UP	5/8	3/4 - 16	1 1/16	33.53	45.97	6,000
HDLM10T-10UP	5/8	7/8 - 14	1 1/16	33.5	50.04	6,000
HDLM10T-12UP	5/8	1 1/16 - 12	1 3/16	36.1	55.12	6,000
HDLM12T-12UP	3/4	1 1/16 - 12	1 3/16	37.6	55.12	6,000
HDLM12T-8UP	3/4	3/4 - 16	1 3/16	37.6	46.48	6,000
HDLM12T-10UP	3/4	7/8 - 14	1 3/16	37.6	51.05	6,000
HDLM12T-16UP	3/4	1 5/16 - 12	1 7/16	40.9	59.44	5,500
HDLM16T-12UP	1	1 1/16 - 12	1 7/16	41.4	58.42	6,000
HDLM16T-16UP	1	1 5/16 - 12	1 7/16	41.4	59.44	5,500
HDLM16T-20UP	1	1 5/8 - 12	1 5/8	44.4	61.98	4,000
HDLM20T-20UP	1 1/4	1 5/8 - 12	1 5/8	44.4	61.98	4,000
HDLM20T-16UP	1 1/4	1 5/16 - 12	1 5/8	44.4	61.98	4,000
HDLM20T-24UP	1 1/4	1 7/8 - 12	1 7/8	49.0	66.04	4,000
HDLM24T-20UP	1 1/2	1 5/8 - 12	1 7/8	49.0	66.04	4,000
HDLM24T-24UP	1 1/2	17/8-12	1 7/8	49.0	66.04	4,000
HDLM32T-32UP	2	21/2-12	21/2	70.1	77.98	2,500



NDK-LOK

Long Straight Thread Elbow



Fractional

	End	Size	н		1.0	Dynamic	
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	(mm)	LP (mm)	Pressure (psig)	
HDLLM4T-4UP	1/4	7/16 - 20	9/16	21.6	56.4	6,000	
HDLLM6T-6UP	3/8	9/16 - 18	3/4	24.9	66.5	6,000	
HDLLM8T-8UP	1/2	3/4 - 16	3/4	27.9	74.9	6,000	
HDLLM10T-10UP	5/8	7/8 - 14	1 1/16	33.5	88.9	6,000	
HDLLM12T-12UP	3/4	1 1/16 - 12	1 3/16	37.6	101.1	6,000	
HDLLM16T-16UP	1	15/16 - 12	1 5/8	41.4	114.0	5,500	

Male Elbow



Fractional / Metric

		End Siz	e	н			Dynamic
Part No.	Tub	e O.D	т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	PF	(mm)	(iiiii)	(mm)	(psig)
HDLM4T-2GP	1/4	6	1/8 - 28	14	21.5	30.0	4,000
HDLM4T-4GP	1/4	6	1/4 - 19	19	23.5	36.0	4,000
HDLM4T-6GP	1/4	6	3/8 - 19	19	24.5	38.0	4,000
HDLM6T-4GP	3/8	8,10	1/4 - 19	19	25.0	36.0	4,000
HDLM6T-6GP	3/8	8,10	3/8 - 19	19	26.5	38.0	4,000
HDLM8T-4GP	1/2	12	1/4 - 19	19	28.0	35.5	4,000
HDLM8T-6GP	1/2	12	3/8 - 19	19	28.0	38.0	4,000
HDLM8T-8GP	1/2	12	1/2 - 14	27	31.0	48.5	4,000
HDLM8T-12GP	1/2	12	3/4 - 14	30	33.5	51.5	4,000
HDLM10T-6GP	5/8	14,15,16	3/8 - 19	27	33.5	40.5	4,000
HDLM10T-8GP	5/8	14,15,16	1/2 - 14	27	33.5	48.5	4,000
HDLM10T-12GP	5/8	14,15,16	3/4 - 14	30	36.0	51.5	4,000
HDLM10T-16GP	5/8	14,15,16	1 - 11	36	39.5	58.5	4,000
HDLM12T-8GP	3/4	18,20	1/2 - 14	30	37.5	49.5	4,000
HDLM12T-12GP	3/4	18,20	3/4 - 14	30	37.5	51.5	4,000
HDLM12T-16GP	3/4	18,20	1 - 11	36	41.0	58.5	4,000
HDLM16T-12GP	1	22,25	3/4 - 14	36	41.5	56.0	4,000
HDLM16T-16GP	1	22,25	1 - 11	36	41.5	58.5	4,000
HDLM16T-20GP	1	22,25	1 1/4 - 11	41	44.5	61.0	3,000
HDLM20T-16GP	1 1/4	28,30,32	1 - 11	41	44.5	61.0	4,000
HDLM20T-20GP	1 1/4	28,30,32	1 1/4 - 11	41	44.5	61.0	2,000
HDLM20T-24GP	1 1/4	28,30,32	1 1/2 - 11	50	49.0	64.5	2,000
HDLM24T-24GP	1 1/2	35,38	1 1/2 - 11	50	49.0	64.5	2,000

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Metric Straight Thread Elbow HDLM-MPH



Fractional / Metric

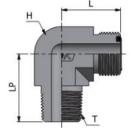
Fractional

		End Size	2	н			Dynamic
Part No.	Tub	e O.D	т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	Unity	(())))	(psig)
HDLM4T-12M15PH	1/4	6	M12X1.5	14	21.5	33.0	6,000
HDLM4T-14M15PH	1/4	6	M14X1.5	17	23.5	35.5	6,000
HDLM6T-12M15PH	3/8	8,10	M12X1.5	17	25.0	35.5	6,000
HDLM6T-14M15PH	3/8	8,10	M14X1.5	17	25.0	35.5	6,000
HDLM6T-16M15PH	3/8	8,10	M16X1.5	17	25.0	37.5	6,000
HDLM8T-14M15PH	1/2	12	M14X1.5	19	28.0	36.0	6,000
HDLM8T-18M15PH	1/2	12	M18X1.5	19	28.0	41.0	6,000
HDLM8T-22M15PH	1/2	12	M22X1.5	27	31.0	49.0	6,000
HDLM10T-18M15PH	5/8	14,15,16	M18X1.5	27	33.5	47.5	6,000
HDLM10T-22M15PH	5/8	14,15,16	M22X1.5	27	33.5	49.0	6,000
HDLM12T-22M15PH	3/4	18,20	M22X1.5	27	37.5	49.0	6,000
HDLM12T-27M20PH	3/4	18,20	M27X2.0	27	37.5	55.5	6,000
HDLM16T-33M20PH	1	22,25	M33X2.0	36	41.5	59.5	5,000
HDLM20T-38M20PH	1 1/4	28,30,32	M38X2.0	41	44.5	62.0	4,000
HDLM20T-42M20PH	1 1/4	28,30,32	M42X2.0	41	44.5	63.0	4,000
HDLM24T-48M20PH	1 1/2	35,38	M48X2.0	50	49.0	71.5	4,000

* For special M38x2 (ISO 6149-1 style) port. The current ISO 6149 does not include the M38 size.

Male Elbow

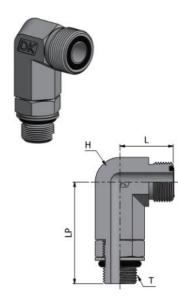




End Size Dynamic н LP L Part No. Pressure Tube O.D т HEX (mm) (mm) (in.) (psig) NPT (in.) HDLM4T-2N 1/4 1/8 - 27 9/16 20.3 21.6 6,000 HDLM4T-4N 1/4 1/4 - 18 9/16 28.4 21.6 6,000 3/8 - 18 6,000 HDLM4T-6N 1/43/4 31.0 24.6 HDLM4T-8N 1/4 1/2 - 14 7/8 37.3 27.2 6,000 HDLM6T-4N 3/8 1/4 - 18 3/4 27.7 24.9 6,000 HDLM6T-6N 3/4 31.0 24.9 6,000 3/8 3/8 - 18 3/8 6,000 HDLM6T-8N 1/2 - 14 7/8 37.3 29.2 HDLM8T-4N 1/2 1/4 - 18 3/4 31.0 27.9 6,000 HDLM8T-6N 1/2 3/8 - 18 3/4 31.0 27.9 6,000 HDLM8T-8N 1/2 1/2 - 14 7/8 37.3 27.9 6,000 HDLM8T-12N 3/4 - 14 1 1/16 40.4 33.5 4,000 1/2 HDLM10T-6N 1 1/16 6,000 5/8 3/8 - 18 32.5 33.3 1 1/16 6,000 HDLM10T-8N 5/8 1/2 - 14 37.3 33.3 HDLM10T-12N 5/8 3/4 - 14 13/16 40.4 35.8 4,000 HDLM12T-8N 6,000 3/4 1/2 - 14 13/16 40.4 37.3 HDLM12T-12N 3/4 3/4 - 14 13/16 40.4 37.3 4,000 3/4 1 - 11 1/2 1 5/16 41.1 3,000 HDLM12T-16N 50.0 HDLM16T-12N 1 3/4 - 14 17/16 45.2 41.7 4,000 HDLM16T-16N 1 1 - 11 1/2 17/16 50.0 41.7 3,000 1 1/4 2,500 HDLM20T-20N 1 1/4 - 11 1/2 15/8 60.4 44.7 HDLM24T-20N 1 1/2 1 1/4 - 11 1/2 17/8 66.3 48.8 2,500 HDLM24T-24N 11/2 1 1/2 - 11 1/2 17/8 67.1 48.8 2,500



Long Metric Straight Thread Elbow

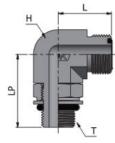


Fractional / Metric

		End Size	2	н			Dynamic
Part No.	Tube O.D		Т	HEX	L	LP (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	(mm)	((((((())))))))))))))))))))))))))))))))	(psig)
HDLLM4T-12M15PH	1/4	6	M12X1.5	14	21.5	56.5	6,000
HDLLM6T-14M15PH	3/8	8,10	M14X1.5	17	25.0	56.5	6,000
HDLLM6T-16M15PH	3/8	8,10	M16X1.5	17	25.0	66.5	6,000
HDLLM8T-18M15PH	1/2	12	M18X1.5	19	28.0	75.0	6,000
HDLLM8T-22M15PH	1/2	12	M22X1.5	27	31.5	88.0	6,000
HDLLM10T-22M15PH	5/8	14,15,16	M22X1.5	27	33.5	88.0	6,000
HDLLM12T-27M20PH	3/4	18,20	M27X2.0	27	37.5	100.5	6,000
HDLLM16T-33M20PH	1	22,25	M33X2.0	36	41.5	114.5	5,000
HDLLM20T-42M20PH	11/4	28,30,32	M42X2.0	41	44.5	126.5	4,000

Metric Straight Thread Elbow





Fractional / Metric

		End Size	•	н			Dynamic
Part No.	Tube O.D		т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	((((((())))))))))))))))))))))))))))))))	((((((((((((((((((((((((((((((((((((((((psig)
HDLM4T-12M15P	1/4	6	M12X1.5	14	21.5	33.0	3,600
HDLM6T-12M15P	3/8	8,10	M12X1.5	17	25.0	35.5	3,600
HDLM6T-14M15P	3/8	8,10	M14X1.5	17	25.0	35.5	3,600
HDLM6T-16M15P	3/8	8,10	M16X1.5	17	25.0	37.5	3,600
HDLM8T-14M15P	1/2	12	M14X1.5	19	28.0	36.0	3,600
HDLM8T-18M15P	1/2	12	M18X1.5	19	28.0	41.0	3,600
HDLM8T-22M15P	1/2	12	M22X1.5	27	31.5	49.0	3,600
HDLM10T-22M15P	5/8	14,15,16	M22X1.5	27	33.5	49.0	3,600
HDLM12T-27M20P	3/4	18,20	M27X2	30	37.5	55.5	3,600
HDLM16T-33M20P	1	22,25	M33X2	36	41.5	59.5	2,500
HDLM20T-38M20P	1 1/4	28,30,32	M38X2	41	44.5	62.0	2,500
HDLM20T-42M20P	1 1/4	28,30,32	M42X2	41	44.5	63.0	2,500

45°Straight Thread Elbow



	Ene	d Size	н	L	LP	Dynamic
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	(mm)	(mm)	Pressure (psig)
HDLBM4T-4UP	1/4	7/16 - 20	9/16	16.0	30.0	6,000
HDLBM4T-6UP	1/4	9/16 - 18	3/4	17.5	33.1	6,000
HDLBM6T-4UP	3/8	7/16 - 20	3/4	19.0	31.0	6,000
HDLBM6T-6UP	3/8	9/16 - 18	3/4	19.0	33.1	6,000
HDLBM6T-8UP	3/8	3/4 - 16	3/4	19.0	36.6	6,000
HDLBM8T-6UP	1/2	9/16 - 18	3/4	20.6	32.5	6,000
HDLBM8T-8UP	1/2	3/4 - 16	3/4	20.6	36.6	6,000
HDLBM8T-10UP	1/2	7/8 - 14	3/4	21.6	44.4	6,000
HDLBM10T-8UP	5/8	3/4 - 16	1 1/16	23.6	39.9	6,000
HDLBM10T-10UP	5/8	7/8 - 14	1 1/16	23.6	44.4	6,000
HDLBM10T-12UP	5/8	1 1/16 - 12	1 3/16	24.4	50.0	6,000
HDLBM12T-10UP	3/4	7/8 - 14	1 3/16	25.9	46.0	6,000
HDLBM12T-12UP	3/4	1 1/16 - 12	1 3/16	25.9	50.0	6,000
HDLBM12T-16UP	3/4	1 5/16 - 12	1 7/16	29.5	52.6	5,500
HDLBM16T-10UP	1	7/8 - 14	1 7/16	30.0	51.6	6,000
HDLBM16T-12UP	1	1 1/16 - 12	1 7/16	30.0	51.6	6,000
HDLBM16T-16UP	1	1 5/16 - 12	1 7/16	30.0	52.6	5,500
HDLBM16T-20UP	1	1 5/8 - 12	1 5/8	32.0	53.6	4,000
HDLBM20T-20UP	1 1/4	1 5/8 - 12	1 5/8	32.0	53.6	4,000
HDLBM24T-24UP	1 1/2	17/8-12	1 7/8	37.1	53.6	4,000

45°Metric Straight Thread Elbow



Fractional / Metric

		End Size	e	н			Dynamic
Part No.	Tube O.D		т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	(mm)	(iiiii)	(psig)
HDLBM4T-12M15PH	1/4	6	M12X1.5	14	16.0	30.0	6,000
HDLBM4T-14M15PH	1/4	6	M14X1.5	17	17.5	31.5	6,000
HDLBM6T-16M15PH	3/8	8,10	M16X1.5	17	19.0	33.5	6,000
HDLBM8T-18M15PH	1/2	12	M18X1.5	19	20.5	37.0	6,000
HDLBM10T-22M15PH	5/8	14,15,16	M22X1.5	27	23.5	44.0	6,000
HDLBM12T-27M2PH	3/4	18,20	M27X2	27	26.0	50.5	6,000
HDLBM16T-33M2PH	1	22,25	M33X2	36	30.0	52.5	5,000
HDLBM20T-42M20PH	1 1/4	28,30,32	M42X2	41	32.0	54.0	4,000
HDLBM24T-48M20PH	1 1/2	35,38	M48X2	50	37.0	56.5	4,000



45° Male Elbow



	En	d Size	н		1.0	Dynamic Pressure (psig)
Part No.	Tube O.D (in.)	T NPT	HEX (in.)	(mm)	LP (mm)	
HDLBM4T-2N	1/4	1/8 - 27	9/16	16.3	16.0	6,000
HDLBM4T-4N	1/4	1/4 - 18	9/16	21.8	17.3	6,000
HDLBM6T-4N	3/8	1/4 - 18	3/4	22.1	18.8	6,000
HDLBM6T-6N	3/8	3/8 - 18	3/4	22.1	18.8	6,000
HDLBM8T-6N	1/2	3/8 - 18	3/4	24.1	20.3	6,000
HDLBM8T-8N	1/2	1/2 - 14	7/8	29.7	21.8	6,000
HDLBM10T-8N	5/8	1/2 - 14	1 1/16	29.7	23.4	6,000
HDLBM12T-12N	3/4	3/4 - 14	1 5/16	33.0	25.9	4,000
HDLBM16T-16N	1	1 - 11.5	1 7/16	37.6	30.0	3,000
HDLBM20T-20N	1 1/4	1 1/4 - 11.5	1 5/8	42.4	32.0	2,500

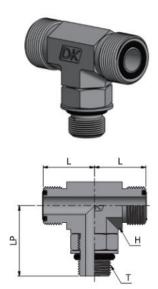
45° Male Elbow



Fractional / Metric

		End Size	2	н			Dynamic
Part No.	Tube O.D		т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	PF	(mm)	(mm)	(mm)	(psig)
HDLBM4T-2GP	1/4	6	1/8 - 28	14	16.0	27.5	4,000
HDLBM4T-4GP	1/4	6	1/4 - 19	19	17.5	32.0	4,000
HDLBM6T-4GP	3/8	8,10	1/4 - 19	19	19.0	32.0	4,000
HDLBM6T-6GP	3/8	8,10	3/8 - 19	19	19.0	33.5	4,000
HDLBM6T-8GP	3/8	8,10	1/2 - 14	27	19.5	43.5	4,000
HDLBM8T-6GP	1/2	12	3/8 - 19	19	20.5	33.5	4,000
HDLBM8T-8GP	1/2	12	1/2 - 14	27	21.0	43.5	4,000
HDLBM10T-8GP	5/8	14,15,16	1/2 - 14	27	23.5	43.5	4,000
HDLBM10T-12GP	5/8	14,15,16	3/4 - 14	30	24.5	46.5	4,000
HDLBM12T-12GP	3/4	18,20	3/4 - 14	30	26.0	46.5	4,000
HDLBM12T-16GP	3/4	18,20	1 - 11	37	26.0	51.0	4,000
HDLBM16T-16GP	1	22,25	1 - 11	37	30.0	51.0	4,000

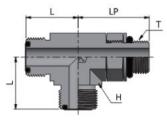
Straight Thread Branch Tee



	Ene	d Size	н		1.0	Dynamic	
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	(mm)	LP (mm)	Pressure (psig)	
HDTBM4T-4UP	1/4	7/16 - 20	9/16	21.6	33.0	6,000	
HDTBM4T-6UP	1/4	9/16 - 18	9/16	23.6	37.1	6,000	
HDTBM6T-6UP	3/8	9/16 - 18	3/4	24.9	37.1	6,000	
HDTBM6T-4UP	3/8	7/16 - 20	3/4	24.9	35.0	6,000	
HDTBM6T-8UP	3/8	3/4 - 16	3/4	26.4	40.4	6,000	
HDTBM8T-8UP	1/2	3/4 - 16	3/4	27.9	40.4	6,000	
HDTBM8T-10UP	1/2	7/8 - 14	1 1/16	31.5	50.0	6,000	
HDTBM8T-12UP	1/2	1 1/16 - 12	1 3/16	34.0	55.1	6,000	
HDTBM10T-10UP	5/8	7/8 - 14	1 1/16	33.5	50.0	6,000	
HDTBM10T-12UP	5/8	1 1/16 - 12	1 3/16	36.1	55.1	6,000	
HDTBM12T-12UP	3/4	1 1/16 - 12	1 3/16	37.6	55.1	6,000	
HDTBM12T-16UP	3/4	1 5/16 - 12	1 7/16	40.9	59.4	5,500	
HDTBM16T-16UP	1	1 5/16 - 12	1 7/16	41.4	59.4	5,500	
HDTBM16T-20UP	1	1 5/8 - 12	1 5/8	44.4	62.0	4,000	
HDTBM20T-20UP	1 1/4	1 5/8 - 12	1 5/8	44.4	62.0	4,000	
HDTBM24T-24UP	1 1/2	17/8-12	17/8	49.0	66.0	4,000	

Straight Thread Run Tee



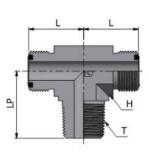


Fractional

	Ene	d Size	н		10	Dynamic	
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	(mm)	LP (mm)	Pressure (psig)	
HDTRM4T-4UP	1/4	7/16 - 20	9/16	21.6	33.0	6,000	
HDTRM4T-6UP	1/4	9/16 - 18	3/4	23.4	37.1	6,000	
HDTRM6T-6UP	3/8	9/16 - 18	3/4	24.9	37.1	6,000	
HDTRM6T-8UP	3/8	3/4 - 16	3/4	26.4	40.4	6,000	
HDTRM8T-8UP	1/2	3/4 - 16	3/4	27.9	40.4	6,000	
HDTRM8T-10UP	1/2	7/8 - 14	1 1/16	31.5	50.0	6,000	
HDTRM10T-10UP	5/8	7/8 - 14	1 1/16	33.5	50.0	6,000	
HDTRM10T-12UP	5/8	1 1/16 - 12	1 3/16	36.1	55.1	6,000	
HDTRM12T-12UP	3/4	1 1/16 - 12	1 3/16	37.6	55.1	6,000	
HDTRM12T-16UP	3/4	1 5/16 - 12	17/16	40.9	59.4	5,500	
HDTRM16T-16UP	1	1 5/16 - 12	17/16	41.4	59.4	5,500	
HDTRM16T-20UP	1	1 5/8 - 12	1 5/8	44.4	62.0	4,000	
HDTRM20T-20UP	1 1/4	1 5/8 - 12	1 5/8	44.4	62.0	4,000	
HDTRM24T-24UP	1 1/2	17/8-12	1 7/8	49.0	66.0	4,000	

Male Branch Tee



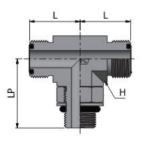


Fractional / Metric

	En	d Size	н		10	Dynamic	
Part No.	Tube O.D (in.)	T NPT	HEX (in.)	(mm)	LP (mm)	Pressure (psig)	
HDTBM4T-4N	1/4	1/4 - 18	9/16	21.6	28.4	6,000	
HDTBM6T-4N	3/8	1/4 - 18	3/4	24.9	27.7	6,000	
HDTBM6T-6N	3/8	3/8 - 18	3/4	24.9	31.0	6,000	
HDTBM8T-6N	1/2	3/8 - 18	3/4	27.9	31.0	6,000	
HDTBM8T-8N	1/2	1/2 - 14	7/8	27.9	37.3	6,000	
HDTBM10T-8N	5/8	1/2 - 14	1 1/16	33.3	37.3	6,000	
HDTBM12T-12N	3/4	3/4 - 14	1 3/16	37.3	40.4	4,000	
HDTBM16T-16N	1	1 - 11.5	1 7/16	41.7	50.0	3,000	
HDTBM20T-20N	1 1/4	1 1/4 - 11.5	1 5/8	44.7	60.4	2,500	

Metric Straight Thread Branch Tee HDTBM-MPH

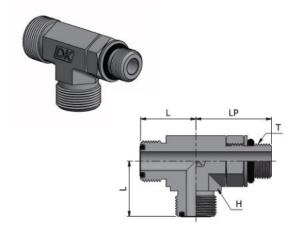




Fractional / Metric

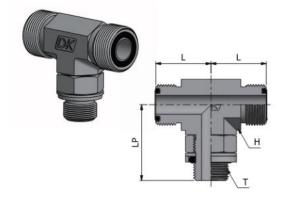
		End Size	e	н			Dynamic
Part No.	Tube O.D		Т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	(unit)	(mm)	(psig)
HDTBM4T-12M15PH	1/4	6	M12X1.5	14	21.5	33.0	6,000
HDTBM4T-14M15PH	1/4	6	M14X1.5	19	23.5	35.5	6,000
HDTBM6T-14M15PH	3/8	8,10	M14X1.5	19	25.0	35.5	6,000
HDTBM6T-16M15PH	3/8	8,10	M16X1.5	19	25.0	37.5	6,000
HDTBM8T-14M15PH	1/2	12	M14X1.5	19	28.0	36.0	6,000
HDTBM8T-18M15PH	1/2	12	M18X1.5	19	28.0	41.0	6,000
HDTBM8T-22M15PH	1/2	12	M22X1.5	27	31.0	49.0	6,000
HDTBM10T-22M15PH	5/8	14,15,16	M22X1.5	27	33.5	49.0	6,000
HDTBM12T-27M20PH	3/4	18,20	M27X2.0	30	37.5	55.5	6,000
HDTBM16T-33M20PH	1	22,25	M33X2.0	36	41.5	59.5	5,100
HDTBM20T-42M20PH	1 1/4	28,30,32	M42X2.0	41	44.5	63.0	4,000
HDTBM24T-48M20PH	1 1/2	35,38	M48X2.0	50	49.0	71.5	4,000

Metric Straight Thread Run Tee HDTRM-MPH



		End Siz	e	н			Dynamic
Part No.	Tub	be O.D	т	HEX	L (mm)	LP (mm)	Pressure (psig)
	(in.)	(mm)	Metric	(mm)	(mm)	(mm)	
HDTRM4T-12M15PH	1/4	6	M12X1.5	14	21.5	33.0	6,000
HDTRM4T-14M15PH	1/4	6	M14X1.5	19	23.5	35.5	6,000
HDTRM6T-14M15PH	3/8	8,10	M14X1.5	19	25.0	35.5	6,000
HDTRM6T-16M15PH	3/8	8,10	M16X1.5	19	25.0	37.5	6,000
HDTRM8T-14M15PH	1/2	12	M14X1.5	19	28.0	36.0	6,000
HDTRM8T-18M15PH	1/2	12	M18X1.5	19	28.0	41.0	6,000
HDTRM8T-22M15PH	1/2	12	M22X1.5	27	31.0	49.0	6,000
HDTRM10T-22M15PH	5/8	14,15,16	M22X1.5	27	33.5	49.0	6,000
HDTRM12T-27M20PH	3/4	18,20	M27X2.0	30	37.5	55.5	6,000
HDTRM16T-32M20PH	1	22,25	M32X2.0	36	41.5	59.5	4,000
HDTRM20T-42M20PH	1 1/4	28,30,32	M42X2.0	41	44.5	63.0	4,000
HDTRM24T-48M20PH	1 1/2	35,38	M48X2.0	50	49.0	71.5	4,000

Male Branch Tee

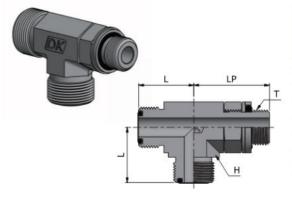


Fractional / Metric

Fractional / Metric

		End Size	e	н	03		Dynamic
Part No.	Tube O.D		т	HEX	(mm)	LP (mm)	Pressure
	(in.)	(mm)	PF	(mm)	(mm)	(mm)	(psig)
HDTBM4T-2GP	1/4	6	1/8 - 28	14	21.5	30.0	4,000
HDTBM4T-4GP	1/4	6	1/4 - 19	19	23.5	36.0	4,000
HDTBM6T-4GP	3/8	8,10	1/4 - 19	19	25.0	36.0	4,000
HDTBM6T-6GP	3/8	8,10	3/8 - 19	19	26.5	38.0	4,000
HDTBM8T-6GP	1/2	12	3/8 - 19	19	28.0	38.0	4,000
HDTBM8T-8GP	1/2	12	1/2 - 14	27	31.0	48.5	4,000
HDTBM10T-8GP	5/8	14,15,16	1/2 - 14	27	33.5	48.5	4,000
HDTBM12T-12GP	3/4	18,20	3/4 - 14	30	37.5	51.5	4,000
HDTBM16T-16GP	1	22,25	1 - 11	36	41.5	58.5	4,000

Male Run Tee HDTRM-GP



Fractional / Metric

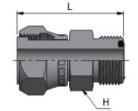
		End Size	e	н			Dynamic
Part No.	Tube O.D		т	HEX	L (mm)	LP (mm)	Pressure
	(in.)	(mm)	PF	(mm)	(mm)	(mm)	(psig)
HDTRM4T-2GP	1/4	6	1/8 - 28	14	21.5	30.0	4,000
HDTRM4T-4GP	1/4	6	1/4 - 19	19	23.5	36.0	4,000
HDTRM6T-4GP	3/8	8,10	1/4 - 19	19	25.0	36.0	4,000
HDTRM6T-6GP	3/8	8,10	3/8 - 19	19	26.5	38.0	4,000
HDTRM8T-6GP	1/2	12	3/8 - 19	19	28.0	38.0	4,000
HDTRM8T-8GP	1/2	12	1/2 - 14	27	31.0	48.5	4,000
HDTRM10T-8GP	5/8	14,15,16	1/2 - 14	27	33.5	45.2	4,000
HDTRM12T-12GP	3/4	18,20	3/4 - 14	30	37.5	51.5	4,000
HDTRM16T-16GP	1	22,25	1 - 11	37	41.5	58.5	4,000

All dimensions are in millimeters unless otherwise specified and only for reference subject to change. www.dklok.com



Swivel Union





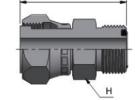
Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	Dynamic Pressure (psig)
HDUS-4T	1/4	5/8	40.4	9,200
HDUS-6T	3/8	3/4	45.0	9,200
HDUS-8T	1/2	7/8	53.8	9,200
HDUS-10T	5/8	1 1/16	61.5	6,000
HDUS-12T	3/4	1 1/4	69.6	6,000
HDUS-16T	1	1 7/16	74.9	6,000

Tube End Extender / Expander

HDSU





L

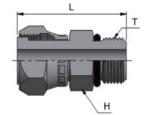
Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	Dynamic Pressure (psig)
HDSU-4T	1/4	5/8	33.8	9,200
HDSU-6T	3/8	3/4	36.6	9,200
HDSU6T-4T	3/8	3/4	34.8	9,200
HDSU8T-6T	1/2	7/8	41.1	9,200
HDSU8T-8T	1/2	7/8	42.4	9,200
HDSU10T-8T	5/8	1 1/16	46.0	6,000
HDSU12T-10T	3/4	1 1/4	50.5	6,000
HDSU16T-12T	1	1 1/2	54.9	6,000
HDSU20T-16T	1 1/4	1 3/4	57.9	5,000
HDSU24T-20T	1 1/2	2 1/8	59.7	4,000

Straight Thread Swivel Connector







	End	Size	н		Dynamic Pressure (psig)
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	L (mm)	
HDSMC4T-4U	1/4	7/16 - 20	5/8	37.1	9,200
HDSMC6T-6U	3/8	9/16 - 18	3/4	39.9	9,200
HDSMC8T-8U	1/2	3/4 - 16	7/8	49.5	9,200
HDSMC10T-10U	5/8	7/8-14	1 1/16	54.1	6,000
HDSMC12T-12U	3/4	1 1/16 - 12	1 1/4	59.4	6,000
HDSMC16T-16U	1	1 5/16 - 12	1 1/2	67.6	6,000
HDSMC20T-20U	1 1/4	1 5/8 - 12	17/8	67.6	5,000

Tube End Reducer







AND THE	
	TIMO

L

Part No.		End	Size	L	Dynamic	
HDSR		Liiu	JIZE			
*One Piece Design (With Crimp Nut)	** Two Piece Design (With Large Nut)	Tube O.D Swivel (in.)	Tube O.D (in.)	(mm)	Pressure (psig)	
HDSR6T-4T		3/8	1/4	19.6	9,200	
-	HDSR8T-4T	1/2	1/4	22.1	9,200	
HDSR8T-6T	-	1/2	3/8	22.6	9,200	
-	HDSR10T-4T	5/8	1/4	23.1	6,000	
-	HDSR10T-6T	5/8	3/8	23.9	6,000	
-	HDSR10T-8T	5/8	1/2	25.4	6,000	
	HDSR12T-4T	3/4	1/4	24.9	6,000	
-	HDSR12T-6T	3/4	3/8	25.9	6,000	
-	HDSR12T-8T	3/4	1/2	27.4	6,000	
HDSR12T-10T	12	3/4	5/8	29.5	6,000	
-	HDSR16T-8T	1	1/2	29.0	6,000	
-	HDSR16T-10T	1	5/8	32.0	6,000	
HDSR16T-12T	-	1	3/4	33.0	6,000	
-	HDSR20T-12T	1 1/4	3/4	33.5	5,000	
HDSR20T-16T	82	1 1/4	1	34.0	5,000	
-	HDSR24T-12T	1 1/2	3/4	33.5	4,000	
-	HDSR24T-16T	1 1/2	1	34.0	4,000	
-	HDSR24T-20T	1 1/2	1 1/4	34.0	4,000	
-	HDSR32T-20T	2	1 1/4	36.1	3,000	
-	HDSR32T-24T	2	1 1/2	36.1	3,000	

* Assembled with swivel nut.

Fractional

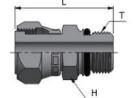
** Assembled with page HDN nut.



	End	Size	н		Dynamic
Part No.	Tube O.D Swivel (in.)	T NPT	HEX (in.)	L (mm)	Pressure (psig)
HDSMC4T-2N	1/4	1/8 - 27	5/8	33.8	6,000
HDSMC4T-4N	1/4	1/4 - 18	5/8	38.6	6,000
HDSMC6T-4N	3/8	1/4 - 18	3/4	42.9	6,000
HDSMC6T-6N	3/8	3/8 - 18	3/4	42.4	6,000
HDSMC8T-6N	1/2	3/8 - 18	3/4	49.5	6,000
HDSMC8T-8N	1/2	1/2 - 14	7/8	54.4	6,000
HDSMC10T-8N	5/8	1/2 - 14	1 1/16	58.2	6,000
HDSMC12T-12N	3/4	3/4 - 14	1 1/4	60.2	5,500
HDSMC16T-16N	1	1 - 11.5	1 1/2	72.9	4,500

Swivel ISO 6149 Connector





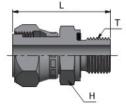
Fractional / Metric

Part No.		End Size	2	н		Dynamic
	Tube O.D		Т	HEX	L	Pressure
	(in.)	(mm)	Metric	(mm)	(mm)	(psig)
HDSMC4T-12M15O	1/4	6	M12X1.5	17	37.0	9,200
HDSMC6T-12M15O	3/8	8,10	M12X1.5	17	39.0	9,200
HDSMC6T-14M15O	3/8	8,10	M14X1.5	19	38.0	9,200
HDSMC6T-16M15O	3/8	8,10	M16X1.5	22	43.5	9,200
HDSMC8T-16M15O	1/2	12	M16X1.5	22	48.0	9,200
HDSMC10T-22M15O	5/8	14,15,16	M22X1.5	27	53.0	6,000
HDSMC10T-27M20O	5/8	14,15,16	M27X2.0	32	57.0	6,000
HDSMC12T-27M20O	3/4	18,20	M27X2.0	32	59.5	6,000
HDSMC16T-33M20O	1	22,25	M33X2.0	41	67.5	6,000

Swivel Metric Connector

HDSMC-ME





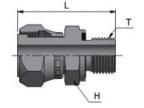
Fractional / Metric

		End Size	2	н		Dynamic
Part No.	Tube O.D		т	HEX	L (mm)	Pressure
	(in.)	(mm)	Metric	(mm)	(mm)	(psig)
HDSMC4T-12M15E	1/4	6	M12X1.5	17	38.2	9,200
HDSMC6T-14M15E	3/8	8,10	M14X1.5	19	40.2	9,200
HDSMC8T-16M15E	1/2	12	M16X1.5	22	47.3	9,200
HDSMC10T-22M15E	5/8	14,15,16	M22X1.5	27	51.8	6,000
HDSMC12T-27M20E	3/4	18,20	M27X2.0	32	57.2	6,000
HDSMC16T-33M20E	1	22,25	M33X2.0	41	67.0	6,000

Swivel BSPP Connector

HDSMC-GE



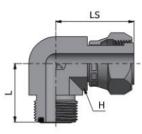


Fractional / Metric

Part No.		End Size				Dynamic
	Tube O.D		т	HEX	L	Pressure
	(in.)	(mm)	PF	(mm)	(mm)	(psig)
HDSMC4T-2GE	1/4	6	1/8	14	34.0	7,200
HDSMC6T-4GE	3/8	8,10	1/4	19	40.2	9,200
HDSMC8T-6GE	1/2	12	3/8	22	47.3	9,200
HDSMC10T-8GE	5/8	14,15,16	1/2	27	51.8	6,000
HDSMC12T-12GE	3/4	18,20	3/4	32	57.2	6,000
HDSMC16T-16GE	1	22,25	1	46	67.0	6,000

Swivel Elbow





Metric

Fractional

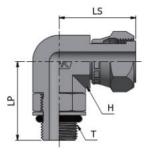
Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSL-4T	1/4	9/16	21.6	27.2	9,200
HDSL-6T	3/8	3/4	24.9	29.7	9,200
HDSL-8T	1/2	3/4	27.9	38.1	9,200
HDSL-10T	5/8	1 1/16	33.5	40.9	6,000
HDSL-12T	3/4	1 3/16	37.6	46.5	6,000
HDSL-16T	1	17/16	41.7	53.6	6,000
HDSL-20T	1 1/4	1 5/8	44.4	57.9	5,000
HDSL-24T	1 1/2	1 7/8	48.8	61.2	4,000

Part No.	End Size Tube O.D (mm)	H HEX (mm)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSL6M-4T	6	14	21.5	27.2	9,200
HDSL8M-6T	8,10	19	25.0	29.7	9,200
HDSL12M-8T	12	19	28.0	38.0	9,200
HDSL14M-10T	14,15,16	27	33.5	41.0	6,000
HDSL18M-12T	18,20	30	37.5	46.5	6,000
HDSL22M-16T	22,25	36	41.6	53.5	6,000
HDSL28M-20T	28,30,32	41	44.5	58.0	4,000
HDSL35M-24T	35,38	50	48.8	61.0	4,000

Straight Thread Swivel Male Elbow

HDSLM-UP





	End	d Size	н	10		Dynamic	
Part No.	Tube O.D (in.)	T UN/UNF	HEX (in.)	LS (mm)	LP (mm)	Pressure (psig)	
HDSLM4T-4UP	1/4	7/16 - 20	9/16	26.4	33.0	6,000	
HDSLM6T-6UP	3/8	9/16 - 18	3/4	29.7	37.1	6,000	
HDSLM8T-8UP	1/2	3/4 - 16	3/4	38.1	40.4	6,000	
HDSLM10T-10UP	5/8	7/8 - 14	1 1/16	41.9	50.0	6,000	
HDSLM12T-12UP	3/4	1 1/16 - 12	1 1/16	45.5	55.1	6,000	
HDSLM16T-16UP	1	1 5/16 - 12	1 5/16	52.6	59.4	5,500	
HDSLM20T-20UP	1 1/4	15/8-12	1 5/8	57.9	62.0	4,000	
HDSLM24T-24UP	1 1/2	17/8-12	1 7/8	61.0	66.0	4,000	

45°Swivel Elbow



Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSLB-4T	1/4	9/16	16.0	25.1	9,200
HDSLB-6T	3/8	3/4	18.8	28.4	9,200
HDSLB-8T	1/2	3/4	20.3	37.8	9,200
HDSLB-10T	5/8	1 1/16	23.4	38.9	6,000
HDSLB-12T	3/4	1 3/16	25.9	43.9	6,000
HDSLB-16T	1	1 7/16	30.0	47.5	6,000
HDSLB-20T	1 1/4	1 5/8	32.0	50.3	5,000
HDSLB-24T	1 1/2	17/8	36.8	52.3	4,000

Swivel Female Connector

HDSCF-N

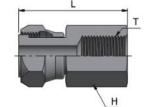


	End	Size	н		Dynamic
Part No.	Tube O.D (in.)	D.D T HEX (in.)	(mm)	Pressure (psig)	
HDSCF4T-4N	1/4	1/4 - 18	3/4	37.6	6,000
HDSCF6T-4N	3/8	1/4 - 18	7/8	40.6	6,000
HDSCF8T-4N	1/2	1/4 - 18	7/8	44.4	6,000

Straight Thread Swivel Female Connector

HDSCF-U



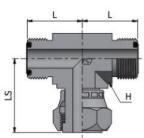


Fractional

Part No.	End	Size	н	1	Dynamic
	Tube O.D (in.)	T UN/UNF	HEX (mm) (in.)		Pressure (psig)
HDSCF4T-4U	1/4	7/16 - 20	3/4	35.05	6,000
HDSCF4T-6U	1/4	9/16 - 18	13/16	36.83	6,000
HDSCF6T-4U	3/8	7/16 - 20	3/4	38.35	6,000
HDSCF8T-4U	1/2	7/16 - 20	7/8	39.88	6,000

Swivel Branch Tee





Metric

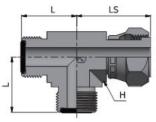
Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSBT-4T	1/4	9/16	21.6	27.18	9,200
HDSBT-6T	3/8	3/4	24.9	29.72	9,200
HDSBT-8T	1/2	3/4	27.9	38,10	9,200
HDSBT-10T	5/8	1 1/16	33.5	40.89	6,000
HDSBT-12T	3/4	1 3/16	37.6	46.48	6,000
HDSBT-16T	1	17/16	41.4	53.59	6,000
HDSBT-20T	1 1/4	1 5/8	44.4	57.91	5,000
HDSBT-24T	1 1/2	1 7/8	49.0	60.96	4,000

Part No.	End Size Tube O.D (mm)	H HEX (mm)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSBT-6M	6	14	21.5	27.2	
HDSBT-8M	8,10	19	25.0	29.7	9,200
HDSBT-12M	12	19	28.0	38.0	9,200
HDSBT-14M	14,15,16	27	33.5	41.0	6,000
HDSBT-18M	18,20	30	37.5	46.5	6,000
HDSBT-22M	22,25	36	41.5	53.5	6,000
HDSBT-28M	28,30,32	41	44.5	58.0	4,000
HDSBT-35M	35,38	50	49.0	61.0	4,000

Swivel Run Tee





Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSRT-4T	1/4	9/16	21.6	27.2	9,200
HDSRT-6T	3/8	3/4	24.9	29.7	9,200
HDSRT-8T	1/2	3/4	27.9	38.1	9,200
HDSRT-10T	5/8	1 1/16	33.5	40.9	6,000
HDSRT-12T	3/4	1 3/16	37.6	46.5	6,000
HDSRT-16T	1	1 7/16	41.4	53.6	6,000
HDSRT-20T	1 1/4	1 5/8	44.4	57.9	5,000
HDSRT-24T	1 1/2	17/8	49.0	61.0	4,000

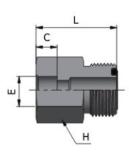
Metric

Part No.	End Size Tube O.D (mm)	H HEX (mm)	L (mm)	LS (mm)	Dynamic Pressure (psig)
HDSRT-6M	6	14	21.5	27.2	9,200
HDSRT-8M	8,10	19	25.0	29.7	9,200
HDSRT-12M	12	19	28.0	38.0	9,200
HDSRT-14M	14,15,16	27	33.5	41.0	6,000
HDSRT-18M	18,20	30	37.5	46.5	6,000
HDSRT-22M	22,25	36	41.6	53.5	6,000
HDSRT-28M	28,30,32	41	44.5	58.0	4,000
HDSRT-35M	35,38	50	48.8	61.0	4,000



Braze Connector **HDCF-TSW**

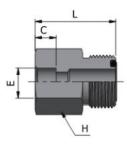




	End	ize	Н		E		Dynamic
Part No.	Tube O.D (in.)	SW (in.)	HEX (in.)	C (mm)	Tube Socket (mm)	L (mm)	Pressure (psig)
HDCF4T-4TSW	1/4	1/4	5/8	13.5	6.6	21.8	9,200
HDCF4T-6TSW	1/4	3/8	5/8	13.5	9.6	21.8	9,200
HDCF6T-4TSW	3/8	1/4	3/4	14.5	6.6	22.9	9,200
HDCF6T-6TSW	3/8	3/8	3/4	14.5	9.6	22.9	9,200
HDCF6T-8TSW	3/8	1/2	3/4	14.5	12.9	22.9	9,200
HDCF8T-4TSW	1/2	1/4	7/8	16.3	6.6	24.6	9,200
HDCF8T-6TSW	1/2	3/8	7/8	16.0	9.6	24.6	9,200
HDCF8T-8TSW	1/2	1/2	7/8	16.0	12.9	24.6	9,200
HDCF8T-10TSW	1/2	5/8	7/8	16.0	16.0	24.6	6,000
HDCF8T-12TSW	1/2	3/4	1 1/16	17.0	19.3	29.5	6,000
HDCF10T-6TSW	5/8	3/8	1 1/16	18.8	9.6	27.2	6,000
HDCF10T-8TSW	5/8	1/2	1 1/16	18.8	12.9	27.2	6,000
HDCF10T-10TSW	5/8	5/8	1 1/16	18.8	16.0	27.2	6,000
HDCF10T-12TSW	5/8	3/4	1 1/16	18.8	19.3	31.2	6,000
HDCF12T-8TSW	3/4	1/2	1 1/4	21.1	12.9	29.5	6,000
HDCF12T-10TSW	3/4	5/8	1 1/4	21.1	16.0	29.5	6,000
HDCF12T-12TSW	3/4	3/4	1 1/4	21.1	19.3	33.5	6,000
HDCF12T-16TSW	3/4	1	1 1/2	21.1	25.6	35.0	6,000
HDCF16T-8TSW	1	1/2	1 1/2	24.6	12.9	33.0	6,000
HDCF16T-12TSW	1	3/4	1 1/2	24.6	19.3	37.1	6,000
HDCF16T-16TSW	1	1	1 1/2	24.6	25.6	38.6	6,000
HDCF16T-20TSW	1	1 1/4	1 3/4	24.4	32.0	38.6	6,000
HDCF20T-16TSW	1 1/4	1	1 3/4	24.6	25.6	38.6	6,000
HDCF20T-20TSW	1 1/4	1 1/4	1 3/4	24.6	32.0	38.6	6,000
HDCF20T-24TSW	1 1/4	1 1/2	2 1/8	24.6	38.3	38.6	5,000
HDCF24T-20TSW	1 1/2	1 1/4	2 1/8	24.6	32.0	38.6	5,000
HDCF24T-24TSW	1 1/2	1 1/2	2 1/8	24.6	38.3	38.6	5,000

Braze Connector **HDCF-MSW**





	End S	Size	н	-	E	L (mm)
Part No.	Tube O.D (mm)	SW (mm)	HEX (mm)	(mm)	Tube Socket (mm)	
HDCF6M-6MSW	6	6	17	13.5	6.1	22.0
HDCF6M-8MSW	6	8	17	13.5	8.1	22.0
HDCF8M-10MSW	8,10	10	19	14.5	10.1	23.0
HDCF12M-12MSW	12	12	22	16.0	12.1	24.5
HDCF14M-16MSW	14,15,16	16	27	19.0	16.1	27.5
HDCF18M-20MSW	18,20	20	32	21.0	20.2	33.5
HDCF22M-25MSW	22,25	25	41	24.5	25.2	38.5
HDCF28M-30MSW	28,30,32	30	46	24.5	30.2	38.5

38

55

24.5

38.2

Dynamic Pressure (psig)

9,200

9,200 9,200

9,200

6,000

6,000 6,000

6,000

5,000

38.5

35,38

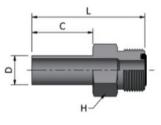
Metric

HDCF35M-38MSW

Tube Stub Connector







Fractional

Part No.	End Size Tube O.D (in.)	H HEX (in.)	C (mm)	D DIA (mm)	L (mm)	Dynamic Pressure (psig)
HDCW-4T	1/4	5/8	22.35	6.3	40.1	5,900
HDCW-6T	3/8	3/4	22.35	9.6	42.4	3,800
HDCW-8T	1/2	7/8	25.40	12.7	48.0	5,500
HDCW-12T	3/4	1 1/4	29.46	19.0	59.7	3,500
HDCW-16T	1	1 1/4	28.70	25.4	58.9	2,600
HDCW-16T61L	1	1 1/2	28.70	25.4	61.0	2,600

Plug HDP



Fractional

Part No.	End Size Tube O.D (in.)	H HEX (mm)	L (mm)	Dynamic Pressure (psig)
HDP-4T	1/4	5/8	16.5	9,200
HDP-6T	3/8	3/4	19.0	9,200
HDP-8T	1/2	7/8	22.1	9,200
HDP-10T	5/8	1 1/16	25.9	6,000
HDP-12T	3/4	1 1/4	27.4	6,000
HDP-14T	7/8	1 3/8	27.9	6,000
HDP-16T	1	1 1/2	27.9	6,000
HDP-20T	1 1/4	1 3/4	27.9	6,000
HDP-24T	1 1/2	2 1/8	27.9	5,000
HDP-32T	2	2 3/4	35.6	3,000

Cap HDC



Fractional

Part No.	End Size Tube O.D (in.)	Thread Size Swivel UN/UNF	H HEX (mm)	N (mm)	L (mm)	Dynamic Pressure (psig)
HDC-4T	1/4	9/16-18	11/16	8.9	16.8	9,200
HDC-6T	3/8	11/16-16	13/16	10.4	18.8	9,200
HDC-8T	1/2	13/16-16	15/16	11.9	22.1	9,200
HDC-10T	5/8	1-14	1 1/8	13.5	25.9	6,000
HDC-12T	3/4	1 3/16-12	1 3/8	15.0	28.4	6,000
HDC-14T	7/8	1 5/16-12	1 1/2	15.0	28.4	6,000
HDC-16T	1	1 7/16-12	1 5/8	16.0	29.5	6,000
HDC-20T	1 1/4	1 11/16-12	17/8	16.0	29.5	6,000
HDC-24T	1 1/2	2-12	2 1/4	16.0	29.5	5,000
HDC-32T	2	2 1/2-12	27/8	20.1	37.1	3,000

Metric

Part No.	End Size Tube O.D (in.)	H HEX (mm)	L (mm)	Dynamic Pressure (psig)
HDP-6M	6	17	16.5	9,200
HDP-8M	8,10	19	19.0	9,200
HDP-12M	12	22	22.0	9,200
HDP-14M	14,15,16	27	26.0	6,000
HDP-18M	18,20	32	27.5	6,000
HDP-22M	22,25	41	28.0	6,000
HDP-28M	28,30,32	46	28.0	6,000
HDP-38M	38	55	28.0	5,000



Metric

Part No.	End Size Tube O.D (mm)	Thread Size Swivel UN/UNF	H HEX (mm)	N (mm)	L (mm)	Dynamic Pressure (psig)
HDC-6M	6	9/16-18	17	9.0	16.8	9,200
HDC-8M	8,10	11/16-16	22	10.5	18.8	9,200
HDC-12M	12	13/16-16	24	12.0	22.0	9,200
HDC-14M	14,15,16	1-14	30	13.5	26.0	6,000
HDC-18M	18,20	1 3/16-12	36	15.0	28.6	6,000
HDC-22M	22,25	17/16-12	41	16.0	29.5	6,000
HDC-28M	28,30,32	1 11/16-12	50	16.0	29.5	6,000
HDC-35M	35,38	2-12	60	16.0	29.5	5,000

All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

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Sleeve HDPS





Fractional

Fractional

Part No.	End Size d (in.)	D (mm)	Dynamic Pressure (psig)
HDPS-4T	1/4	12.7	7.6
HDPS-6T	3/8	15.7	8.6
HDPS-8T	1/2	18.8	10.7
HDPS-10T	5/8	23.4	10.7
HDPS-12T	3/4	27.7	11.9
HDPS-16T	1	34.0	13.5
HDPS-20T	1 1/4	40.4	12.9
HDPS-24T	1 1/2	48.5	12.4
HDPS-32T	2	60.7	13.7

Metric

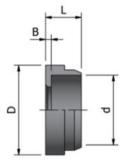
Part No.	End Size d (mm)	D (mm)	Dynamic Pressure (psig)
HDPS-6M	6	12.7	7.5
HDPS-8M	8	15.7	8.5
HDPS-10M	10	15.7	8.5
HDPS-12M	12	18.9	10.5
HDPS-14M	14	23.5	10.5
HDPS-15M	15	23.5	10.5
HDPS-16M	16	23.5	10.5
HDPS-18M	18	27.8	12.0
HDPS-20M	20	27.8	12.0
HDPS-25M	25	34.0	13.5
HDPS-30M	30	40.5	13.0
HDPS-32M	32	40.5	13.0
HDPS-35M	35	48.5	12.5
HDPS-38M	38	48.5	12.5

*Must be mechanically attached using Sleeve system. *Additional-S not required, HDPS-6M is complete part number.

Braze Reducer Sleeve

HDS





	End Size		D	d	в	Ē.
Part No.		e O.D n.)	(mm)	(mm)	(mm)	(mm)
HDS-4T	1/4	-	12.7	6.6	1.0	9.4
HDS-6T	3/8	-	15.7	9.6	1.0	9.4
HDS6T-4T	3/8	1/4	15.7	6.6	2.0	10.4
HDS-8T	1/2	-	19.0	12.9	1.0	9.4
HDS8T-4T	1/2	1/4	19.0	6.6	3.6	11.9
HDS8T-6T	1/2	3/8	19.0	9.6	3.6	11.9
HDS-10T	5/8	-	23.4	16.0	1.5	10.4
HDS10T-4T	5/8	1/4	23.4	6.6	5.1	13.5
HDS10T-6T	5/8	3/8	23.4	9.6	5.1	13.5
HDS10T-8T	5/8	1/2	23.4	12.9	5.1	13.5
HDS-12T	3/4	-	27.9	19.3	1.5	14.0
HDS12T-4T	3/4	1/4	27.9	6.6	6.1	14.5
HDS12T-6T	3/4	3/8	27.9	9.6	6.1	14.5
HDS12T-8T	3/4	1/2	27.9	12.9	6.1	14.5
HDS12T-10T	3/4	5/8	27.9	16.0	5.6	14.5
HDS12T-14T	3/4	7/8	27.9	22.3	1.5	16.5
HDS-14T	7/8	-	31.0	22.3	1.5	14.0
HDS-16T	1	-	34.3	25.6	1.5	15.5
HDS16T-8T	1	1/2	34.3	12.9	7.1	15.5
HDS16T-10T	1	5/8	34.3	16.0	6.6	15.5
HDS16T-12T	1	3/4	34.3	19.3	4.6	17.0
HDS16T-14T	1	7/8	34.3	22.3	4.6	17.0
HDS-20T	11/4	-	40.6	32.0	1.5	15.5
HDS20T-12T	1 1/4	3/4	40.6	19.3	7.1	19.6
HDS20T-16T	11/4	1	40.6	25.6	7.1	21.1
HDS-24T	11/2	-	48.5	38.3	1.5	15.5
HDS24T-16T	1 1/2	1	48.5	25.6	7.1	21.1
HDS24T-20T	1 1/2	1 1/4	48.5	32.0	7.1	21.1
HDS-32T	2	-	61.2	51.0	1.5	16.5

Unplated part, oil dipped for corrosion protection.

*D is for silver brazing.

** 12-14 HDS must be assembled with 12-14 HDN.

***Size 14 and 32 are not included in SAE J1453.

Uses HDBR silver braze rings.

Metric

	End Size	D	d	в	1	
Part No.	Tube O.D (mm)	(mm)	(mm)	(mm)	(mm)	
HDS-6M	6	12.8	6	1.0	9.5	
HDS-8M	8	15.8	8	1.0	9.5	
HDS-10M	10	15.8	10	1.0	9.5	
HDS-12M	12	18.9	12	1.0	9.5	
HDS-16M	16	23.5	16	1.5	10.5	
HDS-20M	20	27.9	20	1.5	14.0	
HDS-25M	25	34.2	25	1.5	15.5	
HDS-30M	30	40.6	30	1.5	15.5	
HDS-38M	38	48.5	38	1.5	15.5	

Unplated part, oil dipped for corrosion protection.

*D is for silver brazing.

·Uses HDBR (metric) silver braze rings.

-Stainless steel part number example: HDS-10M.

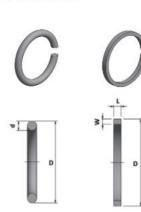
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All dimensions are in millimeters unless otherwise specified and only for reference subject to change.

Nut HDN



Braze Ring



Part No.	End Size Tube O.D (in.)	Thread Size UNF/UNF	H HEX (in.)	D (mm)	L (mm)
HDN-4T	1/4	9/16-18	11/16	10.4	15.0
HDN-5T	5/16	5/8-18	3/4	11.9	16.0
HDN-6T	3/8	11/16-16	13/16	13.5	17.0
HDN-8T	1/2	13/16-16	15/16	16.5	20.1
HDN-10T	5/8	1-14	1 1/8	21.1	23.9
HDN-12T	3/4	1 3/16-12	1 3/8	24.1	26.4
HDN12T-14T	7/8	1 3/16-12	1 3/8	25.1	30.5
HDN-14T	7/8	1 5/16-12	1 1/2	27.3	26.4
HDN-16T	1	17/16-12	15/8	29.2	27.4
HDN-20T	1 1/4	1 11/16-12	17/8	36.1	27.4
HDN-24T	1 1/2	2-12	21/4	43.9	27.4
HDN-32T	2	21/2-12	27/8	56.4	33.0

Metric

Part No.	End Size Tube O.D (mm)	Thread Size UNF/UNF	H HEX (mm)	D (mm)	L (mm)
HDN-6M	6	9/16-18	17	10.5	15.0
HDN-8M	8,10	11/16-16	22	13.5	17.5
HDN-12M	12	13/16-16	24	16.6	20.0
HDN-14M	14,15,16	1-14	30	21.1	24.0
HDN-18M	18,20	1 3/16-12	36	24.1	26.5
HDN-22M	22,25	17/16-12	41	29.1	27.5
HDN-28M	28,30,32	1 11/16-12	50	36.0	27.5
HDN-35M	35,38	2-12	60	44.0	27.5

Fractional

Fractional

Part No.	End Size Tube O.D (in.)	d (mm)	D (mm)	w (mm)	L (mm)
HDBR-4T	1/4	1.3	6.6	-	- 2
HDBR-6T	3/8	-	9.9	1.8	0.8
HDBR-8T	1/2	-	13.1	1.8	0.8
HDBR-10T	5/8	(*)	16.3	1.8	0.8
HDBR-12T	3/4		19.4	2.0	1.0
HDBR-14T	7/8	1.5	22.6	-	-
HDBR-16T	1	1.2	25.8	2.0	1.0
HDBR-20T	1 1/4	-	32.1	2.0	1.0
HDBR-24T	1 1/2	-	38.5	2.0	1.0
HDBR-32T	2	2.3	51.2		-

Metric

Part No.	End Size Tube O.D (mm)	D (mm)	L (mm)
HDBR-6M	6	6.4	1.2
HDBR-8M	8	8.4	1.2
HDBR-10M	10	10.4	1.2
HDBR-12M	12	12.4	1.2
HDBR-16M	16	16.4	1.2
HDBR-20M	20	20.4	1.6
HDBR-25M	25	25.4	1.6
HDBR-30M	30	30.4	1.6
HDBR-38M	38	38.4	1.6

Bulkhead Locknut

HDBN



rr.	a	τ	0	n	а	L

Part No.	End Size Tube O.D (in.)	Thread Size UNF/UNF	H HEX (in.)	L (mm)
HDBN-4T	1/4	9/16-18	13/16	6.9
HDBN-6T	3/8	11/16-16	1	7.9
HDBN-8T	1/2	13/16-16	1 1/8	8.9
HDBN-10T	5/8	1-14	1 5/16	10.4
HDBN-12T	3/4	1 3/16-12	1 1/2	10.4
HDBN-14T	7/8	1 5/16-12	1 5/8	10.4
HDBN-16T	1	1 7/16-12	1 3/4	10.4
HDBN-20T	1 1/4	1 11/16-12	2	10.4
HDBN-24T	1 1/2	2-12	2 3/8	10.4

Metric

Part No.	End Size Tube O.D (mm)	Thread Size UNF/UNF	H HEX (mm)	L (mm)
HDBN-6M	6	9/16-18	22	7.0
HDBN-8M	8,10	11/16-16	27	8.0
HDBN-12M	12	13/16-16	30	9.0
HDBN-14M	14,15,16	1-14	36	10.5
HDBN-18M	18,20	1 3/16-12	41	10.5
HDBN-22M	22,25	1 7/16-12	46	10.5
HDBN-28M	28,30,32	1 11/16-12	50	10.5
HDBN-35M	35,38	2-12	60	10.5