Technical Information

Connection Information

DHL Series Connections

Dimensions of Female DHL Series Connections (DHL) - Double Ferrule Type

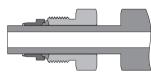
Tube O.D.	Commention		Dimensions	s, in. (mm)	
in.(mm)	Connection	Р	с	D	E
1/8 (3.18)	DHL2	3/8-24	0.63 (15.9)	0.13 (3.2)	0.09 (2.4)
1/4 (6.35)	DHL4	1/2-20	0.85 (21.7)	0.25 (6.4)	0.19 (4.8)
3/8 (9.53)	DHL6	5/8-18	0.89 (22.5)	0.38 (9.5)	0.25 (6.4)
1/2 (12.7)	DHL8	13/16-16	0.96 (24.4)	0.50 (12.7)	0.37 (9.5)
9/16 (14.3)	DHL9	15/16-14	1.20 (30.6)	0.56 (14.3)	0.41 (10.4)
3/4 (19.1)	DHL12	1 1/4-12	1.54 (39.2)	0.75 (19.1)	0.56 (14.2)

NOTES: 1. All dimensions are shown for reference only and should not be considered as actual machining dimensions. 2. All threads are manufactured to class 2A or 2B fit.

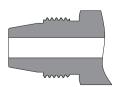
Types of DHL Series Connections

- a. Female DHL Series (DHL)
- DHL Series Tubing
- b. Female DHL Series (DHL) (Without Ferrules and Nut)
- DHL Series Tube Stub with Ferrules and Nut (DHM)

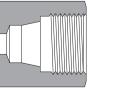


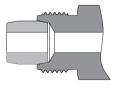


- c. Female DHL Series (DHL) (Without Ferrules and Nut)
- Male DHL Series (One-Piece) (DMP)



d. Female DHL Series (DHL) (Without Ferrules and Nut) Male DHL Series (Two-Piece) (DCP)







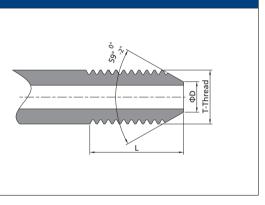
Medium Pressure Connections

Dimensions of Female Medium Pressure Connections (2FH)

Tube O.D.	Connection	Diı	imensions, in. (mm)			
in.(mm)	Connection	Р	В	с	D	E
1/4 (6.35)	2FH4	7/16-20	0.29 (7.3)	0.50 (12.7)	0.19 (4.8)	0.11 (2.8)
3/8 (9.53)	2FH6	9/16-18	0.39 (10.0)	0.63 (16.0)	0.31 (7.9)	0.20 (5.2)
9/16 (14.3)	2FH9	13/16-16	0.44 (11.2)	0.75 (19.1)	0.50 (12.7)	0.31 (7.9)
3/4 (19.1)	2FH12	3/4-14	0.31 (13.0)	0.94 (23.9)	0.63 (15.9)	0.44 (11.1)
1 (25.4)	2FH16	1 3/8-12	0.83 (21.0)	1.31 (33.3)	0.88 (22.4)	0.56 (14.3)

Dimensions of Medium Pressure Coned-and-Threaded Tubing Connections

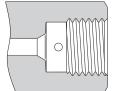
Tube		Dimensions, in. (mm)				
O.D. x I.D. in.	Connection	T (Left Hand)	D	L		
1/4 x 0.109	2FH4	1/4-28	0.14 (3.6)	0.34 (8.7)		
3/8 x 0.203	2FH6	3/8-24	0.25 (6.4)	0.44 (11.1)		
9/16 x 0.312	2FH9	9/16-18	0.41 (10.3)	0.50 (12.7)		
3/4 x 0.438	2FH12	3/4-16	0.56 (14.3)	0.63 (15.9)		
1 x 0.562	2FH16	1-14	0.72 (18.3)	0.78 (19.8)		



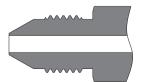
NOTES: 1. All dimensions are shown for reference only and should not be considered as actual machining dimensions. 2. All threads are manufactured to class 2A or 2B fit.

Types of Medium Pressure Connections

- a. Female MP (2FH)
- Medium Pressure Coned and Threaded Tubing
- c. Female MP (2FH) (Without Collar and Gland)



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Male MP (One-Piece) (2MP)

d. Female MP (2FH)

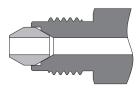
b. Female MP (2FH)

and Gland)

(Without Collar

Male MP (Two-Piece) (2CP)

MP Nipple (2CT)

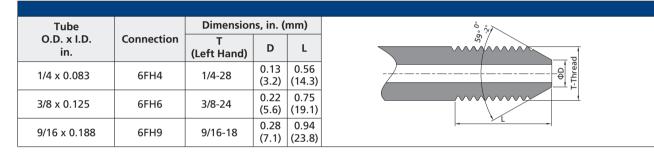


High Pressure Connections

Dimensions of Female High Pressure Connections (6FH)

Tube	Compation	Dir	nensior	ns, in. (I	mm)	
O.D. in.(mm)	Connection	Р	В	с	D	E
1/4 (6.35)	6FH4	9/16-18	0.39 (9.8)	0.45 (11.4)	0.17 (4.3)	0.09 (2.4)
3/8 (9.53)	6FH6	3/4-16	0.54 (13.6)	0.64 (16.3)	0.26 (6.6)	0.13 (3.2)
9/16 (14.3)	6FH9	1 1/8-12	0.63 (16.0)	0.75 (19.1)	0.38 (9.7)	0.19 (4.8)

Dimensions of High Pressure Coned-and-Threaded Tubing Connections



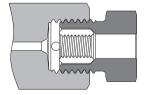
b.

NOTES: 1. All dimensions are shown for reference only and should not be considered as actual machining dimensions. 2. All threads are manufactured to class 2A or 2B fit.

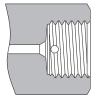
Types of High Pressure Connections

a. Female HP (6FH)

High Pressure Coned and Threaded Tubing

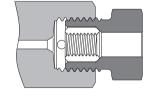


c. Female HP (6FH) (Without Collar and Gland)



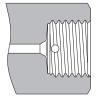
- - Male HP (One-Piece) (6MP)





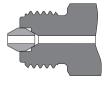
Female HP (6FH)

d. Female HP (6FH) (Without Collar and Gland)



HP Nipple (6CT)

Male HP (Two-Piece) (6CP)



Quick Couplings

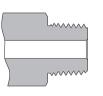
Subsea Valves

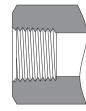
FITOK

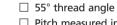
Thread Ends

Thread Specifications

Conn	ection Type	Code	Thread Type	Thread Specification
Male or	^r Female NPT	NS or FNS	NPT	ASME B1.20.1, SAE AS7105
Male or Fer	male ISO/BSP Tapered	RT or FRT	ISO/BSP Tapered	ISO 7-1, BS EN 10226-1, DIN E 10226-1, JIS B0203
Heavy-Duty Stud Ends	(SAE J1926-2, ISO 11926-2)	SH	SAE/MS	ASME B1.1
	Truncated Housing (SAE J1926-1,) 11926-1)	US		
Male or Fem	nale JIC (37° Flare)	AN		
		118.4		
Male	Type "M" Female NPT (NS or FNS)	HM		

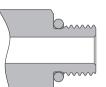




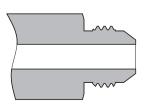


- □ Pitch measured in inch
- $\hfill\square$ Truncation of roots and crests are flat
- □ Taper 1:16
- □ Type of sealing: thread sealant

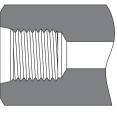
Heavy-Duty Stud Ends (SH)



Male JIC (37° Flare) (AN)

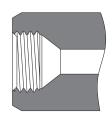


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Ports with O-ring Seal in Truncated Housing (US)

Female JIC (37° Flare) (AN)



- □ 60° thread angle □ Pitch measured in inch
- $\hfill\square$ Truncation of roots and crests are rounded
- □ SH Stud End complies with SAE J1926-2, ISO 11926-2 US Port complies with SAE J1926-1, ISO 11926-1

□ 60° thread angle

- □ Pitch measured in inch
- □ Truncation of roots and crests are rounded
- □ 74° coned connections

Medium & High Pressure Fittings and Tubing

Line Filters

P-Thread

Quick Couplings

Medium & High Pressure Fittings and Tubing

Medium & High Pressure Valves

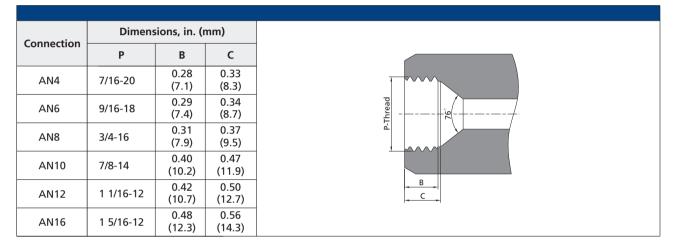
Subsea Valves

FITOK

Dimensions of AN Stud End (Male)

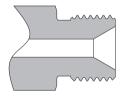
Connection	Dimensions, in. (mm)								
connection	Р	В	с	D	E				
AN4	7/16-20	0.20 (5.1)	0.55 (14.0)	0.36 (9.2)	0.19 (4.9)				
AN6	9/16-18	0.20 (5.2)	0.56 (14.1)	0.48 (12.1)	0.32 (8.1)				
AN8	3/4-16	0.26 (6.6)	0.66 (16.7)	0.65 (16.6)	0.43 (10.8)				
AN10	7/8-14	0.28 (7.0)	0.76 (19.3)	0.77 (19.5)	0.54 (13.7)				
AN12	1 1/16-12	0.32 (8.2)	0.86 (21.9)	0.94 (23.9)	0.67 (16.9)				
AN16	1 5/16-12	0.32 (8.2)	0.91 (23.1)	0.19 (30.2)	0.91 (23.2)				

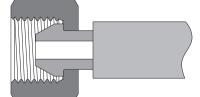
Dimensions of AN Port (Female)



Male Type "M" (HM)

Female Swivel Type "M"Hose Fitting





- \Box 60° thread angle
- Pitch measured in inch
- $\hfill\square$ Truncation of root and crest are rounded
- \Box 60° coned connections

Dimensions of HM Stud End

Connection	Dimen	sions, in.	(mm)
Connection	Р	В	E
HM9	9/16-18	0.50 (12.7)	0.09 (2.4)
HM12	3/4-16	0.63 (16.0)	0.29 (7.4)
HM14	7/8-14	0.76 (19.2)	0.15 (3.8)
HM16	1-12	0.64 (16.3)	0.39 (10.0)
HM21	1 5/16-12	0.62 (15.7)	0.69 (17.5)

Technical Information H-06

문

В

60,000

(4137)

59,000 (4068)

58,000

(4000)

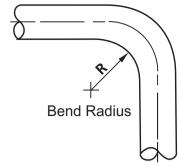
b

1 2 3 4 5

0

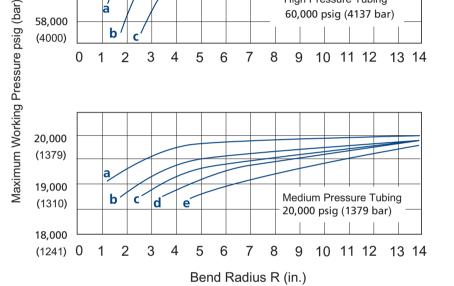
Working Pressure vs. Bend Radius Curve

Medium & High Pressure Tubing (316/316L SS)



High Pressure Tubing 60,000 psig (4137 bar)

	Tube O.D. x I.D. in.	R (min.) in. (mm)
а	1/4 x 0.083	1.25 (31.8)
b	3/8 x 0.125	1.75 (44.5)
С	9/16 x 0.188	2.63 (66.7)



7 8 9

6

High Pressure Tubing

60,000 psig (4137 bar)

10 11 12 13 14

Medium Pressure Tubing 20,000 psig (1379 bar)

	Tube O.D. x I.D. in.	R (min.) in. (mm)
а	1/4 x 0.109	1.25 (31.8)
b	3/8 x 0.203	1.75 (44.5)
С	9/16 x 0.312	2.63 (66.7)
d	3/4 x 0.438	3.50 (89.9)
е	1 x 0.562	4.63 (117.5)

Quick Couplings