High Pressure Fittings 3-TH20E-9 376Cm

TH20 SERIES

- Maximum Pressure: Up to 20,000 psi(1,380 bar)
- Size from 1/4" to 3/4" inch is available.
- Coned and Treaded connection.



ORDERING INFORMATION

1. MATERIAL DESIGNTOR

Material	Designator
316/316L	SS

2. TKF HIGH PRESSURE FITTINGS

3. PRESSURE SERIES

Description	Designator
20,000 psi	20

4. FITTING TYPE

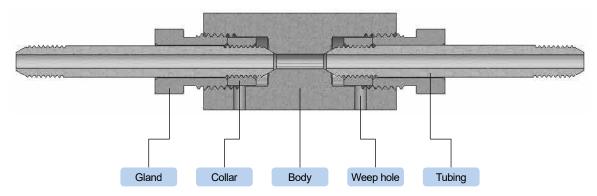
Description	Designator			
Coupling	U			
Elbow	E			
Tee	Т			
Cross	СТ			
Bulkhead	ВН			
Сар	СР			
Plug	Р			
Collar	С			
Gland	G			

5. CONNECTION SIZE

Size	Designator
1/4"	4
3/8"	6
9/16"	9
3/4"	12
1"	16

FEATURES

- One and thread connection provides dependable medium-and high-pressure performance.
- Weep holes standard on all pressure connections to verify proper connection.
- High-pressure Cone and Treaded Fittings, adapters, and couplings are supplied complete with glands and collars except where noted.
- There are 4 patterns body type. (Straight, Elbow, Tee, Cross Type)



MATERIALS

316/L cold worked or high strength stainless steel standard.

Description	Component	Material
	Body	ASTM A479 316/L
316/316L	Gland	ASTM A276 316/L
	Collar	ASTM A276 316/L

PRESSURE RANGES & TEMPERATURE RANGES

Pressure Range	Temperature Range		
20,000 psig (1,378 bar)	-423 °F (-252 °C) to 1200 °F (649 °C)		

TEMPERATURE DERATING FACTORS

Тетре	Temperature					
°F	°C	Factors				
-60 to 200	-51 to 93	1.00				
400	204	0.93				
600	315	0.93				
800	426	0.92				
1,000	537	0.84				

INSTALLATION INSTRUCTIONS

Step 1.

Slide the tubing into the gland.



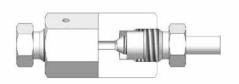
Step 3.

Continue threading until 1 to 2 full threads are exposed at the cone end of the tubing. This will indicate proper position of the collar.

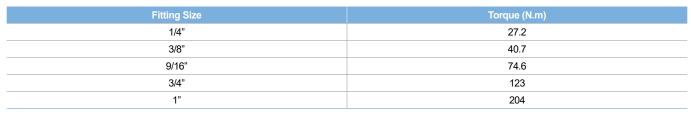


Step 5

Make sure the cone end of the tubing rests firmly on the angled seat of the fitting body.



■ Required Torque



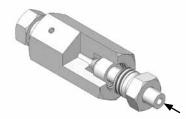
Step 2.

Thread the collar counter-clockwise (left-hand thread) onto the tubing.



Step 4.

Insert the C&T tubing with the collar into the fitting body.



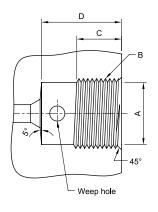
Step 6

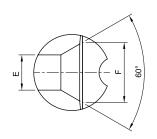
Thread the gland into the fitting body until finger tight. Hold the fitting body steady and tighten the gland to the required torque.

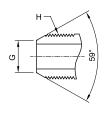


DIMENSIONS

CONE & THREAD END CONNECTIONS







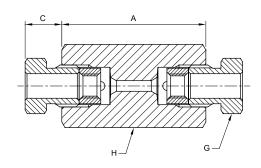
Fitting	Dimensions (mm)									
Fitting Size In.	A	В	С	D			G	н	Tube Engagement Length	
1/4	9.9	7/16-20	7.1	12.7	2.8	4.6	3.6	1/4-28	14.2	
3/8	13.2	9/16-18	9.7	15	5.1	9.1	6.4	3/8-24	17.5	
9/16	19.0	13/16-16	11.2	19	7.9	12.7	10.4	9/16-18	21.3	
3/4	24.1	3/4-14 NPSM	17.8	23.9	11.2	16.0	14.2	3/4-16	25.4	

^{**} Dimensions are for reference only and are subject to change.

COUPLING

TH20U

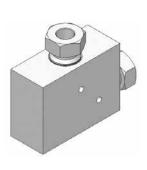


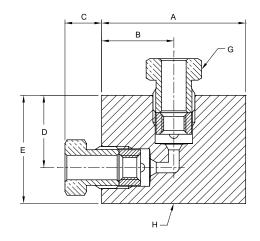


Part No.	Tube O.D.	Dimensions (mm)					
	(in)	A	С	Н	G		
TH20U-4	1/4	38.1	9.4	3/4	1/2		
TH20U-6	3/8	44.5	12.2	3/4	5/8		
TH20U-9	9/16	53.8	17.3	1	7/8		
TH20U-12	3/4	63.5	15.0	1 3/8	1 3/16		

ELBOW

TH20E

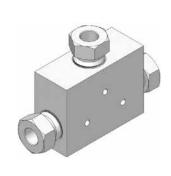


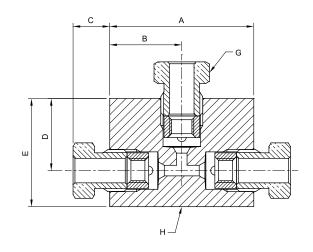


Part No. Tube O.D. (in)	Tube O.D.	Dimensions (mm)						
	Α	В	С	D	E	Н	G	
TH20E-4	1/4	38.1	19.1	9.7	19.1	28.6	5/8	1/2
TH20E-6	3/8	50.8	25.4	12.2	25.4	35.1	3/4	5/8
TH20E-9	9/16	63.5	31.8	17.3	31.8	44.5	1	7/8
TH20E-12	3/4	76.2	38.1	15	38.1	57.2	1 3/8	1 3/16

TEE

TH20T

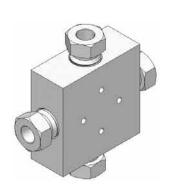


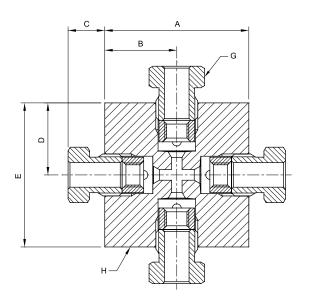


Part No.	Tube O.D.	Dimensions (mm)						
Part NO.	Part No. (in)	Α	В	С	D		Н	G
TH20T-4	1/4	38.1	19.1	9.7	19.1	28.6	5/8	1/2
TH20T-6	3/8	50.8	25.4	12.2	25.4	35.1	3/4	5/8
TH20T-9	9/16	63.5	31.8	17.3	31.8	44.5	1	7/8
TH20T-12	3/4	76.2	38.1	15	38.1	57.2	1 3/8	1 3/16

CROSS

TH20CT



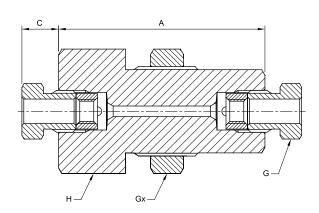


Part No. Tube O.D. (in)	Tube O.D.	Dimensions (mm)						
	(in)	Α	В	С	D		Н	G
TH20CT-4	1/4	38.1	19.1	9.7	19.1	38.1	5/8	1/2
TH20CT-6	3/8	50.8	25.4	12.2	25.4	50.8	3/4	5/8
TH20CT-9	9/16	63.5	31.8	17.3	31.8	63.5	1	7/8
TH20CT-12	3/4	76.2	38.1	15	38.1	76.2	1 3/8	1 3/16

BULKHEAD

TH20BH

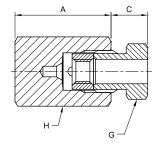




		Dimensions (mm)						
Part No.	Tube O.D. (in)	А	С		н	Gx	Panel Hole Size	Panel Thickness Max.
TH20BH-4	1/4	50.8	9.7	1	1/2	1	22.4	9.7
TH20BH-6	3/8	50.8	12.2	1	5/8	1	23.9	9.7
TH20BH-9	9/16	66.5	17.3	1 3/8	7/8	1 3/8	31.8	12.7
TH20BH-12	3/4	66.5	15	1 7/8	1 3/16	1 7/8	42.9	9.7

CAP TH20CP



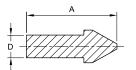


Part No.	Tube O.D. (in)	Dimensions (mm)					
		A	С	Н	G		
TH20CP-4	1/4	25.4	9.4	3/4	1/2		
TH20CP-6	3/8	31.8	12.2	3/4	5/8		
TH20CP-9	9/16	38.1	17.3	1	7/8		
TH20CP-12	3/4	44.5	15.0	1 3/8	1 3/16		

PLUG

TH20P





Part No.	Tube O.D. (in)	Dimensions (mm)		
		A	D	
TH20P-4	1/4	25.4	6.4	
TH20P-6	3/8	31.8	9.5	
TH20P-9	9/16	39.6	14.2	
TH20P-12	3/4	41.2	19.5	

GLAND

TH20G





Part No.	Tube O.D. (in)	G (in)
TH20G-4	1/4	1/2
TH20G-6	3/8	5/8
TH20G-9	9/16	7/8
TH20G-12	3/4	1 3/16

COLLAR

TH20C





Part No.	Tube O.D.
TH20C-4	1/4
TH20C-6	3/8
TH20C-9	9/16
TH20C-12	3/4