

PIPE END PRESSURE RATINGS Compression Tube End x NPT

PIPE END PRESSURE RATING

Pressure ratings of the compression tube port is governed by the connective tubing pressure rating. The allowable working pressure of those fittings with both compression tube port and pipe end port are determined by the lower pressure port.

NPT Threads are ASME B1.20.1 (NPT), SAE AS71051

ISO/NPT PIPE SIZE	316 SS and CARBON STEEL				BRASS			
	MALE		FEMALE		MALE		FEMALE	
	psig	bar	psig	bar	psig	bar	psig	bar
S VALUE	20ksi				10ksi			
1/16	14000	965	6600	455	7400	510	3300	227
1/8	10000	689	6400	441	5000	345	3200	220
1/4	8300	572	6500	448	4100	282	3200	220
3/8	8000	551	5200	358	4000	275	2600	179
1/2	7800	537	4800	331	3900	269	2400	165
3/4	7500	517	4600	317	3700	255	2300	158
1	5300	365	4400	303	2600	179	2200	152
1 1/4	6200	427	5000	345	3100	214	2500	172
1 1/2	5100	351	4500	310	2500	172	2200	152
2	4000	276	3900	269	2000	138	1900	131

PIPE THREAD SEALANTS

Pipe thread sealant for tapered pipe thread assembly is essential to ensure leak-free thread sealing. Sealant usually contains a lubricant. Thread sealant fills the voids between the threads and prevents thread galling. Wrap PTFE tape clockwise from first thread. Do not overhang the first thread; the tape may get into the fluid system.

PRESSURE EQUIVALENTS:

1 bar = 100 kPa = 14.503 psi 1 kPa = 0.01 bar = 0.145 psi

1 psi = 0.069 bar = 6.89 kPa 1 kg/cm2 = 0.98 bar = 14.22 psi

ELASTOMER SEAL TEMPERATURE RATINGS

Elastomer O-ring Rating	
NBR	-40 to 110°C (-40 to 230°F)
FKM	-28 to 204°C (-18 to 400°F)
FFKM (Kalrez®)	-30 to 275°C (-22 to 527°F)

*Care must be taken as fitting with elastomer O-ring seal may have lower temperature rating.
 Kalrez®: DupPont™

GENERAL COMPRESSION TUBE FITTING SPECIFICATIONS & DATA



Operating Pressures & Temperatures - Stainless Steel Compression Tubing

- Applications Include: Compression, Instrumentation, Vacuum, Gas, Cryogenic, High pressure & Temperature Service.
- These tube fittings are designed using industrial codes and specifications with additional cutting-edge engineering on swaging action and sealing integrity.
- Provides excellent leak-free sealing on high pressure gas, vacuum, impulse, thermal shock, heavy vibration and many other stringent applications.
- All tube fittings are double ferrule and consist of a body, front ferrule, back ferrule and nut.
- Stainless steel bar stock conforms to ASTM A276, ASTM 479, ASME SA479 and JIS GA 303
- Stainless steel forged fittings conform to ASTM A182, ASME SA 182 and JIS G3214

