

# Flared Ends / Stub Ends

February, 2023

## MATERIAL

- **Body:** Cross Linked Polyethylene (PE-Xa)

## SPECIFICATIONS

- **Temperature range:** -50°C / -58°F to 110°C / 230°F



## Pressure-Temperature De-rating Table [Bar/Psi]

Temperature °C/°F	Class 10	Class 15	Class 24
10 / 50	11.20 / 162.4	17.0 / 246.5	26.90 / 390.1
20 / 68	9.90 / 143.5	15.0 / 217.5	23.80 / 345.1
30 / 86	8.80 / 127.6	13.3 / 192.9	21.10 / 306.0
40 / 104	7.80 / 113.1	11.8 / 171.1	18.70 / 271.2
50 / 122	7.00 / 101.5	10.5 / 152.2	16.70 / 242.2
60 / 140	6.30 / 91.3	9.5 / 137.7	15.00 / 217.5
70 / 158	5.60 / 81.2	8.5 / 123.2	13.40 / 194.3
80 / 176	5.10 / 73.9	7.5 / 108.7	12.00 / 174.0
90 / 194	4.50 / 65.2	6.8 / 98.6	10.90 / 158.0
95 / 203	4.10 / 59.4	6.4 / 92.8	10.30 / 149.3
100 / 212	3.5 / 50.7	5.5 / 79.7	9.0 / 130.5
105 / 221	2.8 / 50.7	4.5 / 65.2	7.0 / 101.5
110 / 230	2.40 / 34.8	3.8 / 55.1	5.90 / 85.5

Table in compliance with DIN 16892.

## Length (L) for Pexgol stub end

Pipe diameter (mm)	Standard length (mm)	Minimum length L (mm)
32	500	85
40	500	85
50	500	104
63	500	120
75	500	130
90	500	140
110	500	160
125	500	182
140	500	180
160	500	180
180	500	198
200	500	200
225	500	200
250	500	215
280	500	228
315	500	238
355	500	255
400	500	285
450	500	320
500	500	350

## Bolts for connecting flared ends

Pexgol Pipe dia.	Flange size	Bolt size**	Bolt length (mm)**	No. of bolts	Torque N x m	Torque lb x ft
63	2"	5/8"	50	4	98	72
75	2 ½"	5/8"	50	4	98	72
90	3"	5/8"	50	4	98	72
110	4"	5/8"	50	8	98	72
125	4"	5/8"	50	8	98	72
140	6"	3/4"	60	8	163	120
160	6"	3/4"	60	8	163	120
180	6"	3/4"	60	8	163	120
200	8"	3/4"	60	8	163	120
225	8"	3/4"	60	8	163	120
250	10"	7/8"	70	12	260	192
280	10"	7/8"	70	12	260	192
315	12"	7/8"	70	12	260	192
355	14"	1"	70	12	399	294
400	16"	1"	75	16	399	294
450	18"	1-1/8"	75	16	578	426
500	20"	1-1/8"	100	20	578	426

## Notes:

- The straight sections with flared ends are produced with a tolerance of +/- 10mm in length.
- Torquening the bolts should be done in a crisscross manner.
- When connecting a GP Flange Coupler with a flared end, the torquening values of the GP Flange Coupler are the ones that should be used.
- The flared end should be used together with Golan's approved flanges.
- In case of connection with an stub end made from a different material which require a different torque value (for example: fiberglass), it is possible to use the lower torque value. However, in that case it is necessary to perform a "Repeated fastening process". Meaning, first fastening during installation, then a second torque after 12 hours and last torquing 24 hours after the initial installation time. During that time, no pressure should be introduced to the system.

## Fixpoint Requirements

OD	Class					
	10	12	15	19	24	30
32						
40			X	X	X	X
50			X	X	X	X
63			X	X	X	X
75	X	X	X	X	X	X
90	X	X	X	X	X	X
110	X	X	X			
125	X	X	X			
140	X	X	X			
160	X	X	X			
180	X	X	X			
200						
225						
250						
280						
315						
355						
400						
450						
500						

Fixpoint is not required
Fixpoint is required

\*Fixpoints are required in some cases (see table) in order to prevent pipe pull-out.

## Pexgol sections with Flared ends on both sides

- The following table lists the lengths of short flared ends Pexgol sections.
- The A length is relevant for short sections which are supplied with regular flanges.
- The shorter B length is applicable for short sections which are supplied with split flanges that can be mounted after the short section is flared.

Pipe diameter (mm)	Minimum length of a flanged Pexgol pipe with full S.O. flanges	Minimum length of a Pexgol pipe with split S.O. flange
	A	B
90	210	165
110	215	165
160	225	175
180	240	200
200	290	230
225	290	230
250	355	290
280	340	280
315	380	320
355	355	285
400	395	320
450	410	330
500	550	350
630	--	380

