



# PANACEA® PT70-M

## “EASY TO SEAL” PTFE PROTECTED EPDM GASKETS



### Features and Benefits

Molded Style	Fits ANSI 150 lb. Flanged Joints.
	These gaskets are also compatible with many DN-style flange assemblies, simply by altering bolt hole location. This has been proven by many European customers, for example.
Virgin PTFE Sealing Surface	Almost universal chemical resistance.
	Non-contaminating for High-Purity application.
PTFE Bonded to EPDM	-30°C (-22°F) to 150°C (300°F) continuous service temperature range.
	Bonded PTFE has no loose “ears” to interfere with the installation between flanges.
	EPDM “memory” gives long sealing life.
Molded Dual-Seal Design	Low Bolt torque required to seal.
	2 seals: Primary and Secondary

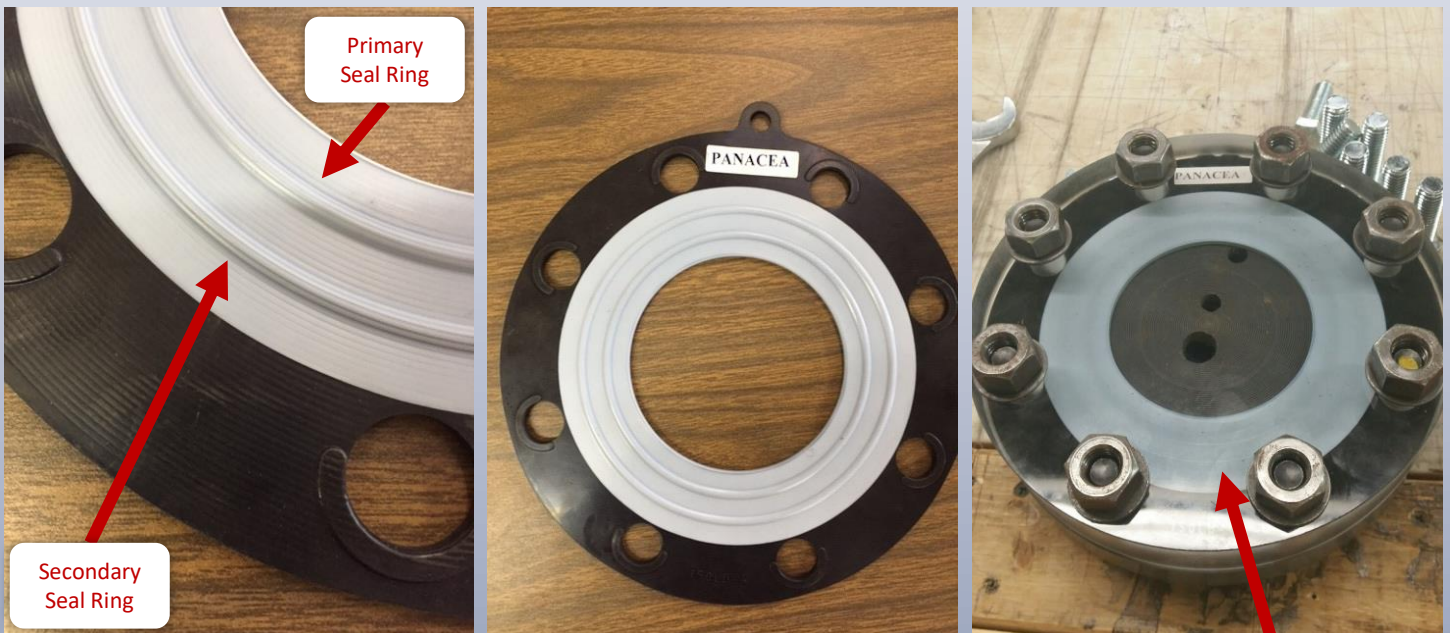
### Specifications

PTFE Seal Surface	Virgin PTFE, minimum 0.3 mm thick (0.012")
EPDM Body	Durometer: 70±5 Shore A
	Elongation: 350% Typical
	Polymer Content: >45%
	Peroxide-Cured
Gasket Overall Thickness	1/2" to 8" — 5 mm (.197") 10" to 24" — 6 mm (.236")
Maximum Allowable Compression Force	10 kg/cm <sup>2</sup> (142 psi)

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- PT70-M gaskets are specified *exclusively* by many chemical manufacturing and processing sites, including for metallic and non-metallic piping.
- PT70-M gaskets can be re-used in many instances – please consult Prince Rubber and Plastics for details.
  - Sealing of PT70-M, and the compression of the sealing ribs, are pictured below. Sealing ribs are able to rebound, nearly entirely, in many cases, after being taken out of compression.

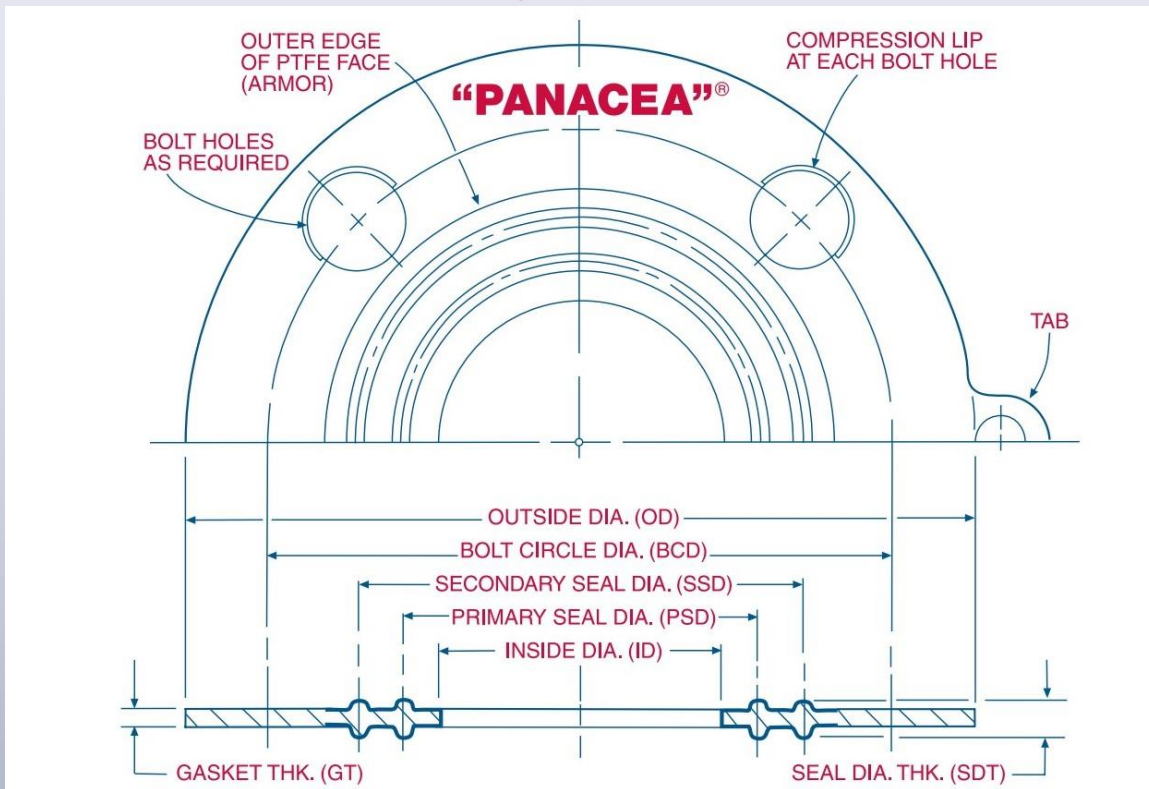


**PT70-M Suggested Bolt Torque Specs**

Nominal Size		Prince Suggested Bolt Torque	
Inches	≈mm	Min Ft*lbs (N*m)	Max Ft*lbs (N*m)
1/2	15	17 (24)	21 (28)
3/4	20	17 (24)	21 (28)
1	25	17 (24)	21 (28)
1 1/4	32	19 (26)	23 (31)
1 1/2	40	22 (29)	26 (35)
2	50	22 (29)	26 (35)
2 1/2	65	30 (41)	36 (49)
3	80	30 (41)	36 (49)
3 1/2	90	30 (41)	36 (49)
4	100	30 (41)	36 (49)
5	125	35 (47)	42 (57)
6	150	35 (47)	42 (57)
8	200	43 (59)	52 (70)
10	250	43 (59)	52 (70)
12	300	53 (72)	63 (86)
14	350	78 (106)	94 (127)
16	400	70 (94)	84 (113)
18	450	78 (106)	94 (127)
20	500	72 (98)	86 (117)
24	600	102 (138)	122 (166)

Seal Rings compress fully, when sealed

- Final torque values to be approved by local engineer of end user.
- Torque suggestion developed using B16.5 150# Flat-Face Flanges.
- Table based on A193 Grade B7 bolts, or those of equal strength.



**Inches**

ANSI 150 LB FLANGE SIZE	GT	SDT	ID	OD	PSD	SSD	BCD	NO OF HOLES AND DIA.
½	1/10	3/16	.71	3 ½	1 3/16	*	2 3/8	4 - 5/8
¾	1/10	3/16	.87	3 7/8	1 3/16	1 5/8	2 ¼	4 - 5/8
1	1/10	1/10	1.14	4 ¼	1 7/16	1 31/32	3 1/8	4 - 5/8
1 ¼	1/10	3/16	1.50	4 5/8	1 13/16	2 5/16	3 ½	4 - 5/8
1 ½	1/10	3/16	1.69	5	2 1/16	2 11/16	3 7/8	4 - 5/8
2	1/10	3/16	2.13	6	2 1/2	3 ¼	4 ¾	4 - 3/4
2 ½	1/10	3/16	2.71	7	3 3/16	4	5 ½	4 - 3/4
3	1/10	3/16	3.15	7 ½	3 5/8	4 13/32	6	4 - 3/4
3 ½	1/10	3/16	3.50	8 ½	4 3/8	5 1/4	7	8 - 3/4
4	1/10	3/16	4.0	9	4 7/8	5 27/32	7 ½	8 - 3/4
5	1/10	3/16	5.0	10	5 29/32	6 7/8	8 ½	8 - 7/8
6	1/10	3/16	6.0	11	6 ¾	7 11/16	9 ½	8 - 7/8
8	1/10	3/16	7.88	13 ½	8 ¾	9 11/16	11 ¾	8 - 7/8
10	1/8	1/4	10.0	16	10 7/8	11 13/16	14 ¼	12 - 1
12	1/8	1/4	12.0	19	13 3/16	14 3/8	17	12 - 1
14	1/8	1/4	13.25	21	14 3/8	15 9/16	18 ¾	12 - 1 1/8
16	1/8	1/4	15.25	23 ½	16 3/4	17 7/8	21 ¼	16 - 1 1/8
18	1/8	1/4	17.25	25	18 11/16	19 7/8	22 ¾	16 - 1 1/4
20	1/8	1/4	19.25	27 ½	20 21/32	21 7/8	25	20 - 1 1/4
24	1/8	1/4	23.25	32	24 5/8	34 1/16	29 ½	20 - 1 3/8

**MM**

ANSI 150 LB FLANGE SIZE	GT	SDT	ID	OD	PSD	SSD	BCD	NO OF HOLES AND DIA.
½	2.5	5	18	86	30	*	60	4 - 16
¾	2.5	5	22	96	30	42	70	4 - 16
1	2.5	5	29	105	37	50	79	4 - 16
1 ¼	2.5	5	38	115	46	59	89	4 - 16
1 ½	2.5	5	43	125	53	68	98	4 - 16
2	2.5	5	54	150	64	83	121	4 - 19
2 ½	2.5	5	69	175	81	101	140	4 - 19
3	2.5	5	80	188	92	112	152	4 - 19
3 ½	2.5	5	90	213	110	134	178	8 - 19
4	2.5	5	103	226	124	148	190	8 - 19
5	2.5	5	129	252	150	174	216	8 - 22
6	2.5	5	153	277	172	196	241	8 - 22
8	2.5	5	200	340	222	246	298	8 - 22
10	3.0	6	254	404	276	300	362	12 - 25
12	3.0	6	305	480	335	365	432	12 - 25
14	3.0	6	337	530	365	395	476	12 - 29
16	3.0	6	387	594	425	455	540	16 - 29
18	3.0	6	438	632	475	505	578	16 - 32
20	3.0	6	489	696	525	555	635	20 - 32
24	3.0	6	591	810	625	865	749	20 - 35

- ½" gasket has only one seal ring
- ½" - 12" gasket sizes are kept in Prince inventory, typically
- 14" - 24" gasket sizes are produced made-to-order, and subject to longer lead times