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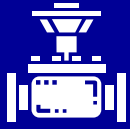
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**FLNAGES TECHNICAL
C A T A L O G**

Catálogo Técnico FLANGIA

ORIFICE FLANGES





GOVAL
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MANUFACTURING & DISTRIBUTOR



GOVAL ITALY S.r.L

GOVAL ITALY established in 2009, a fast-growing company based in Milano Italy, specializes in the supply of valves, pipes, and pipe fittings to variety of industries such as Gas & Oil and Water.

Our policy is to provide high end products sourced from quality assessed manufacturers, whose products meet the EU standards.

Furthermore, we operate internationally and exports products to customers overseas. We make sure that we provide a streamlined process for all of our clients.

Our business model enables manufacturers to have full access to global trade, empowering them to focus on their core markets. We provide our retail partners with high demand products and offer direct to customer fulfillment to help build their extended aisle assortments.

Why US:

Privileges to work with us:

- We stock all of our products in warehouse located in Milano industrial area. We are ready to ship and fulfill your immediate needs.
- We carry a very wide range of valves, pipes and fittings, covering a wide range of corporate needs.
- We are constantly revamping logistics and supply chain processes, so as to keep costs down and our prices competitive.

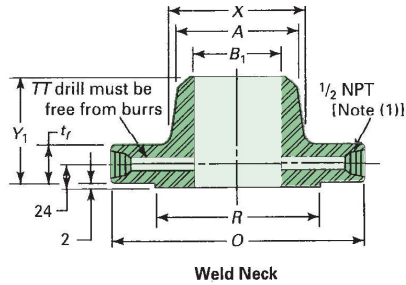
Our Mission

We adopt the latest technology to guarantee excellent quality and services.

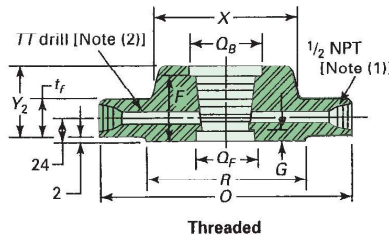
Our Vision

To make a difference through providing the technical solutions that appropriate to every customer's needs.

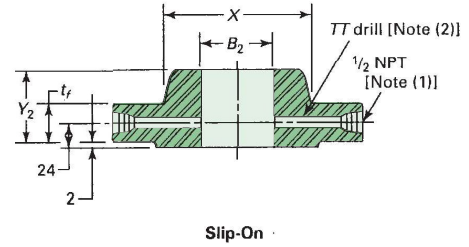
Orifice Flanges, Welding Neck, Threaded, and Slip-On Class 300



Weld Neck



Threaded



Slip-On

ASME B 16.36

Nominal Pipe Size	Outside Diameter of Raised Face, R	Outside Diameter of Flange, S	Minimum Thickness of Flange, t_f	Length Through Hub		Diameter of Hub, X	Hub Diameter Beginning on Chamfer (W.N.), A	Diameter of Counterbore		Counterbore Depth (From Face)		Bore		Diameter of Pressure Connection, TT	Drilling Template				Bolt Length [(3), (4)]	
				Slip-On and Threaded, Y_2	Weld Neck, Y_1			Back, Q_b	Face, Q_f	F	G	Slip-On, B_2	Weld Neck, B_1		Bolt Circle	Number of Holes	Diameter of Holes	Diameter of Bolts	Machine Bolts	Stud Bolts
1	50,8	125	36,6	46	81	54	33,4	35,8	33,0	36,5	19,0	34,5	(5)	6,4	88,9	4	11/16	5/8	115	125
1 1/2	73,0	155	36,6	46	84	70	48,3	50,5	48,0	37,3	18,3	49,5	(5)	6,4	114,3	4	13/16	3/4	120	135
2	92,1	165	36,6	48	84	84	60,3	63,5	59,9	38,1	17,5	61,9	(5)	6,4	127,0	8	11/16	5/8	115	125
2 1/2	104,8	190	36,6	49	87	100	73,0	76,2	72,1	44,4	14,3	74,6	(5)	6,4	149,2	8	13/16	3/4	120	135
3	127,0	210	36,6	51	87	117	88,9	92,2	87,9	46,0	14,3	90,7	(5)	6,4	168,3	8	13/16	3/4	120	135
4	157,2	255	36,6	52	90	146	114,3	117,6	113,0	47,6	14,3	116,1	(5)	12,7	200,0	8	13/16	3/4	120	135
6	215,9	320	36,6	52	98	206	168,3	171,4	166,9	47,6	7,9	170,7	(5)	12,7	269,9	12	7/8	3/4	120	135
8	269,9	380	39,7	60	110	260	219,1	222,2	217,2	55,6	11,1	221,5	(5)	12,7	330,2	12	1	7/8	125	145
10	323,8	445	46,1	65	116	321	273,0	(6)	(6)	(6)	(6)	276,2	(5)	12,7	387,4	16	1 1/8	1	145	165
12	381,0	520	49,3	71	129	375	323,8	(6)	(6)	(6)	(6)	327,0	(5)	12,7	450,8	16	1 1/4	1 1/8	160	180
14	412,8	585	52,4	75	141	425	355,6	(6)	(6)	(6)	(6)	359,2	(5)	12,7	514,4	20	1 1/4	1 1/8	165	185
16	469,9	650	55,6	81	144	483	406,4	(6)	(6)	(6)	(6)	410,5	(5)	12,7	571,5	20	1 3/8	1 1/4	180	195
18	533,4	710	58,8	87	157	533	457,0	(6)	(6)	(6)	(6)	461,8	(5)	12,7	628,6	24	1 3/8	1 1/4	185	205
20	584,2	775	62,0	94	160	587	508,0	(6)	(6)	(6)	(6)	513,1	(5)	12,7	685,8	24	1 3/8	1 1/4	190	215
24	692,2	915	68,3	105	167	702	610,0	(6)	(6)	(6)	(6)	616,0	(5)	12,7	812,8	24	1 5/8	1 1/2	210	240

GENERAL NOTES:

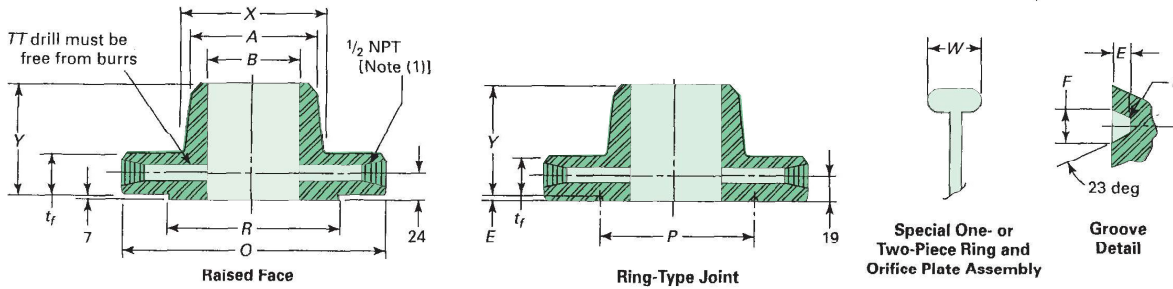
- (1) Dimensions are in millimeters, except for bolt holes. Reference Mandatory Appendix I for U.S. Customary.
- (2) Weld neck flanges NPS 3 and smaller are dimensionally identical to Class 600 flanges and may be so marked.
- (3) All other dimensions are in accordance with ASME B16.5.

Notes:

- (1) Other NPT sizes may be furnished if required.
- (2) For slip-on and threaded flanges, verify that TT drilling extends to inside diameter of pipe after assembly and is free from burrs.
- (3) Bolt lengths include allowance for orifice and gasket thickness of 6 mm (0.25 in.) for NPS 1 to NPS 12 and 10 mm (0.38 in) for NPS 14 to NPS 24.
- (4) In conformance with ASME B16.5, stud bolt lengths do not include point heights.
- (5) Bore diameter of weld neck flanges is to be specified by the purchaser.
- (6) Threaded flanges are furnished in NPS 1 to NPS 8 only.



Orifice Flanges, Welding Neck Class 600



ASME B 16.36

Nominal Pipe Size	Outside Diameter of Raised Face, R	Outside Diameter of Flange, O	Minimum Thickness of Flange, t _f	Length Through Hub, Y	Height of Raised Face, H	Length Through Hub						Diameter of Hub, X	Hub Diameter Beginning of Chamfer, A	Bore, B	Diameter of Pressure Connection, TT	Drilling Template				Diameter of Bolts	Length of Stud Bolts	
						Groove Number	Pitch Diameter, P	Groove Depth, E	Groove Width, F	Radius at Bottom, r	Special Oval Ring Height, W					Number of Holes	Number of Raised Face	Number of Ring Joint	Number of Bolts		Length of Raised Face	Length of Ring Joint
1	50,8	125	36,6	81	2	R16	50,80	6,35	8,74	0,8	25,4	54	33,5	(4)	6,4	88,9	4	11/16	3/4	5/8	125	140
1 1/2	73,0	155	36,6	84	2	R20	68,27	6,35	8,74	0,8	25,4	70	48,3	(4)	6,4	114,3	4	13/16	7/8	3/4	135	140
2	92,1	165	36,6	84	2	R23	82,55	7,92	11,91	0,8	27,0	84	60,3	(4)	6,4	127,0	8	11/16	3/4	5/8	125	140
2 1/2	104,8	190	36,6	87	2	R26	101,60	7,92	11,91	0,8	27,0	100	73,0	(4)	6,4	149,2	8	13/16	7/8	3/4	135	145
3	127,0	210	36,6	87	2	R31	123,83	7,92	11,91	0,8	27,0	117	88,9	(4)	9,5	168,3	8	13/16	7/8	3/4	135	145
4	157,2	275	38,1	102	7	R37	149,23	7,92	11,91	0,8	27,0	152	114,3	(4)	12,7	215,9	8	1	1	7/8	150	165
6	215,9	355	47,7	117	7	R45	211,12	7,92	11,91	0,8	27,0	222	168,3	(4)	12,7	292,1	12	1 1/8	1 1/8	1	180	190
8	269,9	420	55,6	133	7	R49	269,88	7,92	11,91	0,8	27,0	273	219,1	(4)	12,7	349,2	12	1 1/4	1 1/4	1 1/8	195	210
10	323,8	510	63,5	152	7	R53	323,85	7,92	11,91	0,8	27,0	343	273,0	(4)	12,7	431,8	16	1 3/8	1 3/8	1 1/4	220	235
12	381,0	560	66,7	156	7	R57	381,00	7,92	11,91	0,8	27,0	400	323,8	(4)	12,7	489,0	20	1 3/8	1 3/8	1 1/4	230	240
14	412,8	605	69,9	165	7	R61	419,10	7,92	11,91	0,8	27,0	432	355,6	(4)	12,7	527,0	20	1 1/2	1 1/2	1 3/8	240	255
16	469,9	685	76,2	178	7	R65	469,90	7,92	11,91	0,8	30,2	495	406,4	(4)	12,7	603,2	20	1 5/8	1 5/8	1 1/2	260	275
18	533,4	745	82,6	184	7	R69	533,40	7,92	11,91	0,8	30,2	546	457,2	(4)	12,7	654,0	20	1 3/4	1 3/4	1 5/8	280	290
20	584,2	815	88,9	190	7	R73	584,20	9,53	13,49	1,5	31,8	610	508,0	(4)	12,7	723,9	24	1 3/4	1 3/4	1 5/8	300	320
24	692,2	940	101,6	203	7	R77	692,15	11,13	16,66	1,5	36,5	718	609,6	(4)	12,7	838,2	24	2	2	1 7/8	335	350

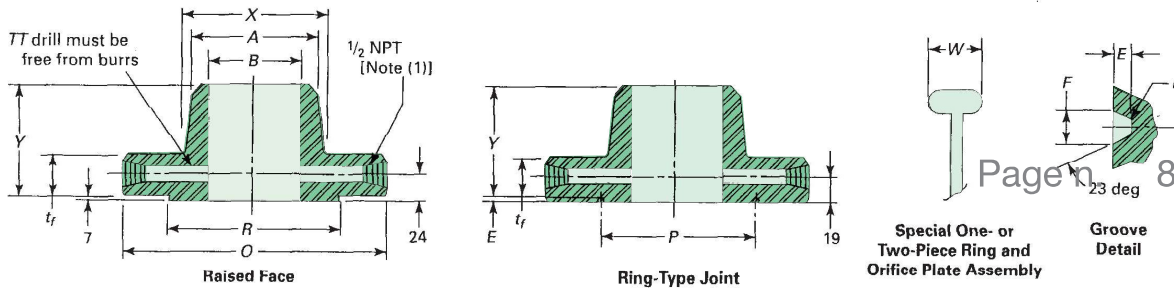
GENERAL NOTES:

- Dimensions are in millimeters, except for bolt holes. Reference Mandatory Appendix I for U.S. Customary.
- Weld neck flanges NPS 3 and smaller are identical to Class 300 flanges except for bolting and be used for such service.
- All other dimensions are in accordance with ASME B16.5.
- Ring joint flange in NPS 24 will require an angular meter tap as shown in Fig. 2

Notes:

- Other NPT sizes may be furnished if required.
- In conformance with ASME B16.5, stud bolt lengths do not include point heights.
- Bolt lengths for raised face flanges include allowance for orifice and gasket thickness of 6 mm (0,25 in.) for NPS 1 to NPS 12 and 10 mm (0,38 in.) for NPS 14 to NPS 24. Bolt lengths for ring-type joint flanges include allowance of 15 mm (0,62 in.) for NPS 1 to NPS 10, 19 mm (0,75 in.) for NPS 18, and 22 mm (0,88) for NPS 20.
- Bore is to be specified by the purchaser.

Orifice Flanges, Welding Neck Class 900



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Special One- or Two-Piece Ring and Orifice Plate Assembly

Groove Detail

ASME B 16.36

Nominal Pipe Size	Outside Diameter of Raised Face, R	Outside Diameter of Flange, O	Minimum Thickness of Flange, t_f	Length Through Hub, Y	Ring-Type Joint							Diameter of Hub, X	Hub Diameter Beginning of Chamfer, A	Bore, B	Diameter of Pressure Connection, TT	Drilling Template			Length of Stud Bolts [(2), (3)]	Raised Ring Face Joint	
					Groove Number	Pitch Diameter, P	Groove Depth, E	Groove Width, F	Radius at Bottom, r	Special at oval Ring Height, W	Diameter of Bolt Circle					Number of Holes	Diameter of Holes	Diameter of Bolts			
1 1 1/2 2 2 1/2					For NPS 2 1/2 and smaller, use Class 1500.																
3	127.0	240	38.1	102	R31	123.83	7.92	11.91	0.8	27.00	127	88.9	(4)	9.5	190.5	8	1	7/8	150	165	
4	157.2	290	44.5	114	R37	149.23	7.92	11.91	0.8	27.00	159	114.3	(4)	12.7	235.0	8	1 1/4	1 1/8	180	190	
6	215.9	380	55.6	140	R45	211.12	7.92	11.91	0.8	27.00	235	168.3	(4)	12.7	317.5	12	1 1/4	1 1/8	195	210	
8	269.9	470	63.5	162	R49	269.88	7.92	11.91	0.8	27.00	298	219.1	(4)	12.7	393.7	12	1 1/2	1 3/8	230	240	
10	323.8	545	69.9	184	R53	323.85	7.92	11.91	0.8	27.00	368	273.0	(4)	12.7	469.9	16	1 1/2	1 3/8	240	255	
12	381.0	610	79.4	200	R57	381.00	7.92	11.91	0.8	27.00	419	323.8	(4)	12.7	533.4	20	1 1/2	1 3/8	260	275	
14	412.8	640	85.8	213	R62	419.10	11.13	16.66	1.5	33.3	451	355.6	(4)	12.7	558.8	20	1 5/8	1 1/2	280	290	
16	469.9	705	88.9	216	R66	469.90	11.13	16.66	1.5	36.5	508	406.4	(4)	12.7	616.0	20	1 3/4	1 5/8	290	305	
18	533.4	785	101.6	229	R70	533.40	12.70	19.84	1.5	39.7	565	457.2	(4)	12.7	685.8	20	2	1 7/8	330	350	
20	584.2	855	108.0	248	R74	584.20	12.70	19.84	1.5	39.7	622	508.0	(4)	12.7	749.3	20	2 1/8	2	355	375	
24	692.2	1040	139.7	292	R78	692.15	15.88	26.97	2.4	47.6	749	609.6	(4)	12.7	901.7	20	2 5/8	2 1/2	445	470	

GENERAL NOTES:

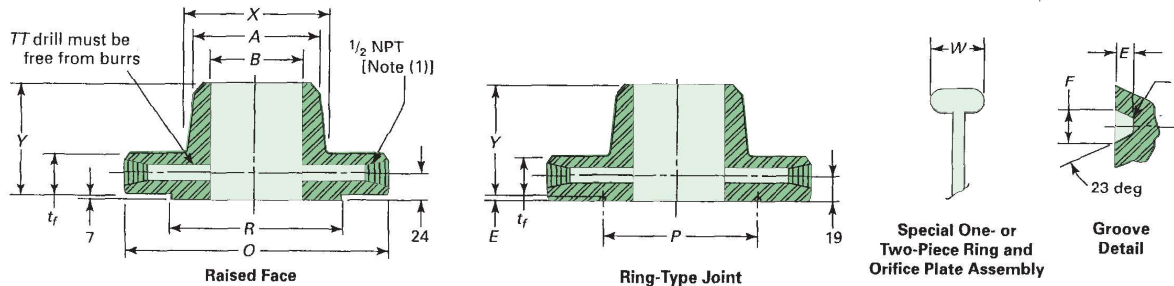
- (a) Dimensions are in millimeters, except for bolts holes. Reference Mandatory Appendix I for U.S. Customary.
- (b) All other dimensions are in accordance with ASME B16.5.
- (c) Ring joint flanges larger than NPS 12 will require angular meter taps as shown in Fig. 2

Notes:

- (1) Other NPT sizes may be furnished if required.
- (2) In conformance with ASME B16.5, stud bolt lengths do not include point heights.
- (3) Bolt lengths for raised face flanges include allowance for orifice and gasket thickness of 6 mm (0.25 in.) for NPS 3 to NPS 12 and 10 mm (0.38 in) for NPS 14 to NPS 24. Bolt lengths for ring-type joint flanges include allowance of 15 mm (0.62 in.) for NPS 3 to NPS 10 and 19 mm (0.75 in) for NPS 12.
- (4) Bore is to be specified by the purchaser.



Orifice Flanges, Welding Neck Class 1500



ASME B 16.36

Nominal Pipe Size	Outside Diameter of Raised Face, R	Outside Diameter of Flange, O	Minimum Thickness of Flange, t_f	Length Through Hub, Y	Ring-Type joint							Diameter of Hub, X	Hub Diameter Beginning of Chamfer, A	Bore, B	Diameter of Pressure Connection, TT	Drilling Template				Length of Stud Bolts [(2), (3)] Raised Ring Face Joint	
					Groove Number	Pitch Diameter, P	Groove Depth, E	Groove Width, F	Radius at Bottom, r	Special Oval Ring Height, W	Diameter of Bolt Circle					Number of Holes	Diameter of Holes	Diameter of Bolts			
1	50,8	150	38,1	83	R16	50,80	6,35	8,74	0,8	25,4	52	33,5	(4)	6,4	101,6	4	1	7/8	150	160	
1 1/2	73,0	180	38,1	89	R20	68,27	6,35	8,74	0,8	25,4	70	48,3	(4)	6,4	123,8	4	1 1/8	1	160	165	
2	92,1	215	38,1	102	R24	95,25	7,92	11,91	0,8	27,00	105	60,3	(4)	6,4	165,1	8	1	7/8	150	165	
2 1/2	104,8	245	41,3	105	R27	107,95	7,92	11,91	0,8	27,00	124	73,0	(4)	6,4	190,5	8	1 1/8	1	165	180	
3	127,0	265	47,7	117	R35	136,53	7,92	11,91	0,8	27,00	133	88,9	(4)	9,5	203,2	8	1 1/4	1 1/8	185	185	
4	157,2	310	54,0	124	R39	161,93	7,92	11,91	0,8	27,00	162	114,3	(4)	12,7	241,3	8	1 3/8	1 1/4	205	215	
6	215,9	395	82,6	171	R46	211,14	9,52	13,49	1,5	28,6	229	168,3	(4)	12,7	317,5	12	1 1/2	1 3/8	265	280	
8	269,9	485	92,1	213	R50	269,88	11,13	16,66	1,5	33,3	292	219,1	(4)	12,7	393,7	12	1 3/4	1 5/8	300	310	
10	323,8	585	108,0	254	R54	323,85	11,13	16,66	1,5	33,3	368	273,0	(4)	12,7	482,6	12	2	1 7/8	345	355	
12	381,0	675	123,9	283	R58	381,00	14,27	23,01	1,5	39,7	451	323,8	(4)	12,7	571,6	16	2 1/8	2	380	400	
14	412,8	750	133,4	298	R63	419,10	15,88	26,97	2,4	44,4	495	355,6	(4)	12,7	635,0	16	2 3/8	2 1/4	415	445	
16	469,9	825	146,1	311	R67	469,90	17,48	30,18	2,4	50,8	552	406,4	(4)	12,7	704,8	16	2 5/8	2 1/2	450	485	
18	533,4	915	162,0	327	R71	533,40	17,48	30,18	2,4	50,8	597	457,2	(4)	12,7	774,7	16	2 7/8	2 3/4	500	535	
20	584,2	985	177,8	356	R75	584,20	17,48	33,32	2,4	54,0	641	508,0	(4)	12,7	831,8	16	3 1/8	3	545	570	
24	692,2	1170	203,2	406	R79	692,15	20,62	36,53	2,4	58,7	762	609,6	(4)	12,7	990,6	16	3 5/8	3 1/2	620	660	

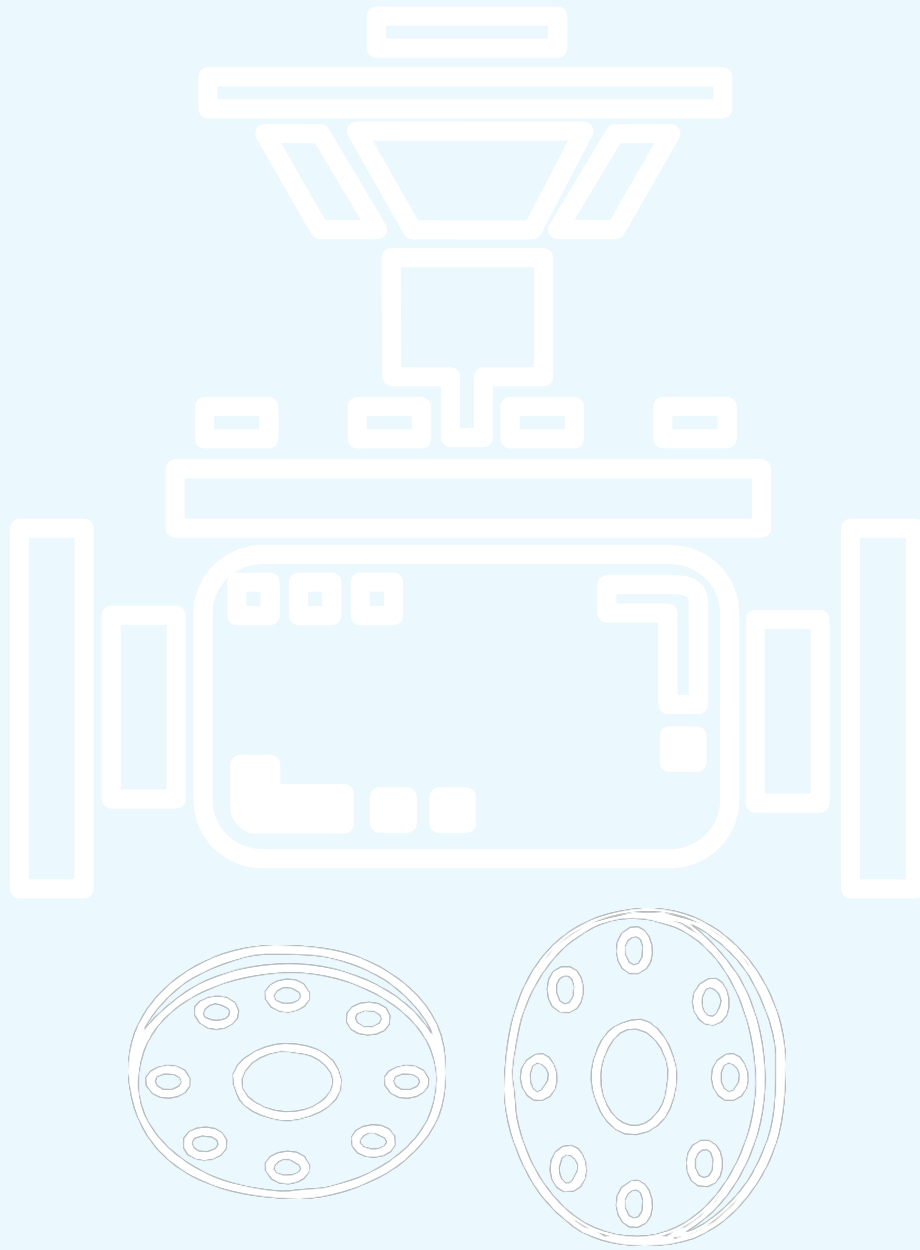
GENERAL NOTES:

- (a) Dimensions are in millimeters, except for bolts and bolt holes.
- (b) All other dimensions are in accordance with ASME B16.5.
- (c) Ring joint flanges larger than NPS 6 will require angular meter taps as shown in Fig. 2

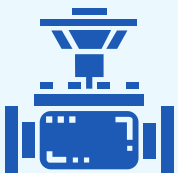
Notes:

- (1) Other NPT sizes may be furnished if required.
- (2) In conformance with ASME B16.5, stud bolt lengths do not include point heights.
- (3) Bolt lengths for raised face flanges include allowance for orifice and gasket thickness of 6 mm (0,25 in.) for NPS 1 to NPS 12. and 10 mm (0,38 in.) for NPS 14 to NPS 24. Bolt lengths for ring-type joint include flanges allowance of 15 mm (0,62 in.) for NPS 1 to NPS 6.
- (4) Bore is to be specified by the purchaser.

■ The manufacturer does not accept any responsibility for any typing or printing errors in this catalog. It also reserves the right to make any alterations or modifications deemed necessary at any time, without altering or interfering with the basic functions of the apparatus.



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