



# Ring Gasket Type BX

TYPE "BX" Ring Gasket - according to ASME B16.20  
TYPE BX Pressure Energized Ring Gasket according to API 6A

NOMINAL PIPE SIZE / NOMINAL PRESSURE						RING NUMBER	OUTSIDE DIA. OF RING OD 0, -0.13	ID	HEIGHT OF RING H <sup>(3)</sup> +0.20, 0	WIDTH OF RING A <sup>(3)</sup> +0.20, 0	WIDTH OF FLAT C +0.15, 0	RADIUS IN RING R <sup>(2)</sup> 8% to 12% Gasket "H"	HOLE DIA. D ±0.50	DIA. OF FLAT ODT ±0.05
API 6BX														
2000	3000	5000	10000	15000	20000									
			1 <sup>-1/16</sup>	1 <sup>-1/16</sup>		Bx150	72.19	53.59	9.30	9.30	7.98	0.93	1.6	70.87
			1 <sup>-3/16</sup>	1 <sup>-3/16</sup>	1 <sup>-3/16</sup>	Bx151	76.40	57.15	9.63	9.63	8.26	0.96	1.6	75.03
			2 <sup>-1/16</sup>	2 <sup>-1/16</sup>	2 <sup>-1/16</sup>	Bx152	84.68	64.21	10.24	10.24	8.79	1.02	1.6	83.24
			2 <sup>-9/16</sup>	2 <sup>-9/16</sup>	2 <sup>-9/16</sup>	Bx153	100.94	78.18	11.38	11.38	9.78	1.14	1.6	99.31
			3 <sup>-1/16</sup>	3 <sup>-1/16</sup>	3 <sup>-1/16</sup>	Bx154	116.84	92.05	12.40	12.40	10.64	1.24	1.6	115.09
			4 <sup>-1/16</sup>	4 <sup>-1/16</sup>	4 <sup>-1/16</sup>	Bx155	147.96	119.51	14.22	14.22	12.22	1.42	1.6	145.95
			7 <sup>-1/16</sup>	7 <sup>-1/16</sup>	7 <sup>-1/16</sup>	Bx156	237.92	200.69	18.62	18.62	15.98	1.86	3.2	235.28
			9	9	9	Bx157	294.46	252.50	20.98	20.98	18.01	2.10	3.2	291.49
			11	11	11	Bx158	352.04	305.77	23.14	23.14	19.86	2.31	3.2	348.77
			13 <sup>3/8</sup>	13 <sup>3/8</sup>	13 <sup>3/8</sup>	Bx159	426.72	375.31	25.70	25.70	22.07	2.57	3.2	423.09
			13 <sup>3/8</sup>			Bx160	402.59	375.11	23.83	13.74	10.36	2.38	3.2	399.21
			16 <sup>3/4</sup>			Bx161	491.41	459.00	28.07	16.21	12.24	2.81	3.2	487.45
			16 <sup>3/4</sup>	16 <sup>3/4</sup>	16 <sup>3/4</sup>	Bx162	475.49	447.04	14.22	14.22	12.22	1.42	1.6	473.48
			18 <sup>3/4</sup>			Bx163	556.16	521.41	30.10	17.37	13.11	3.01	3.2	551.9
			18 <sup>3/4</sup>	18 <sup>3/4</sup>		Bx164	570.56	521.39	30.10	24.59	20.32	3.01	3.2	566.29
			21 <sup>1/4</sup>			Bx165	624.71	587.73	32.03	18.49	13.97	3.20	3.2	620.19
			21 <sup>1/4</sup>			Bx166	640.03	587.76	32.03	26.14	21.62	3.20	3.2	635.51
26 <sup>3/4</sup>						Bx167	759.36	733.15	35.86	13.11	8.03	3.59	1.6	754.28
	26 <sup>3/4</sup>					Bx168	765.25	733.15	35.86	16.05	10.97	3.59	1.6	760.17
			5 <sup>1/8</sup>			Bx169	173.51	147.65	15.85	12.93	10.69	1.58	1.6	171.27
			6 <sup>3/8</sup>	6 <sup>3/8</sup>		Bx170	218.03	189.59	14.22	14.22	12.22	1.42	1.6	216.03
			8 <sup>-9/16</sup>	8 <sup>-9/16</sup>		Bx171	267.44	238.99	14.22	14.22	12.22	1.42	1.6	265.43
			11 <sup>-5/32</sup>	11 <sup>-5/32</sup>		Bx172	333.07	304.62	14.22	14.22	12.22	1.42	1.6	331.06
30	30					Bx303	852.75	818.82	37.95	16.97	11.61	3.79	1.6	847.37

- NOTE: 1) All 23° surfaces on BX gaskets shall have a surface finish no rougher than 0.8 µm Ra (32 µin RMS).  
2) Radius " R " shall be 8 % to 12 % of the gasket height " H ".  
One pressure-passage hole required per gasket on centerline. See fig. 1  
3) A plus tolerance of 0.20 mm for width " A " and height " H " is permitted, provided the variation in width or height of any ring does not exceed 0.10 mm throughout its entire circumference.  
4) Flatness shall be flat within a tolerance of 0.2% of ring outside diameter to a maximum of 0.38mm (0.015 in).



Fig.1 Dimensions in millimetres

