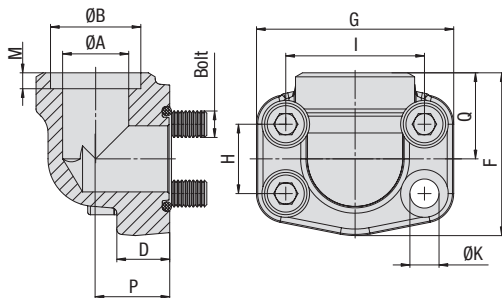


**SAE 90° Single-Part Socket-Weld Flange
Type BFX90-ES • 6000 PSI Series**

6000 PSI High Pressure Series (based on ISO 6162-2:2012)

Nominal Size		PN ¹ (^{bar} / _{PSI})	Dimensions (^{mm} / _{in})												Weight (^{kg} / _{lbs}) ca.		for Bolts		Ordering Codes
DN	(in)	10.9	ØA	ØB	D	F	G	H	I	M	P	Q	ØK	per 100	Metric	UNC			
13	1/2	420	13	21,6	16	60	54	18,2	40,5	10	20	37	8,7	30,1	M8x30	5/16–18 UNC x 1-1/4	BFX90-601-ES-21.6/13-W1		
		6090	.51	.85	.63	2.36	2.13	.72	1.59	.39	.79	1.46	.34	66.22					
13	1/2	420	13	17,5	16	60	54	18,2	40,5	10	20	37	8,7	31,3	M8x30	5/16–18 UNC x 1-1/4	BFX90-601-ES-17.5/13-W1		
		6090	.51	.69	.63	2.36	2.13	.72	1.59	.39	.79	1.46	.34	68.86					
19	3/4	420	19	27,2	19	70	72	23,8	50,8	12	28	43	10,5	70,5	M10x35	3/8–16 UNC x 1-1/2	BFX90-602-ES-27.2/19-W1		
		6090	.75	1.07	.75	2.76	2.83	.94	2.00	.47	1.10	1.69	.41	155.10					
19	3/4	420	16/19	20,3	19	70	72	23,8	50,8	12	28	43	10,5	54,0	M10x35	3/8–16 UNC x 1-1/2	BFX90-602-ES-20.3/16-W1		
		6090	.63/.74	.80	.75	2.76	2.83	.94	2.00	.47	1.10	1.69	.41	118.80					
19	3/4	420	19	25,3	19	70	72	23,8	50,8	12	28	43	10,5	72,9	M10x35	3/8–16 UNC x 1-1/2	BFX90-602-ES-25.3/19-W1		
		6090	.75	1.00	.75	2.76	2.83	.94	2.00	.47	1.10	1.69	.41	160.38					
19	3/4	420	25/19	30,3	19	70	72	23,8	50,8	12	28	43	10,5	65,3	M10x35	3/8–16 UNC x 1-1/2	BFX90-602-ES-30.3/25-W1		
		6090	.98/.74	1.19	.75	2.76	2.83	.94	2.00	.47	1.10	1.69	.41	143.66					
25	1	420	25	34	21	85	79	27,8	57,2	14	34	51	13	108,2	M12x45	7/16–14 UNC x 1-3/4	BFX90-603-ES-34/25-W1 ²		
		6090	.98	1.34	.83	3.35	3.11	1.09	2.25	.55	1.34	2.01	.51	238.04					
25	1	420	25	30,3	21	85	79	27,8	57,2	14	34	51	13	113,9	M12x45	7/16–14 UNC x 1-3/4	BFX90-603-ES-30.3/25-W1 ²		
		6090	.98	1.19	.83	3.35	3.11	1.09	2.25	.55	1.34	2.01	.51	250.58					
32	1-1/4	420	32	42,8	25	95	93	31,8	66,6	16	38	56	13,5	161,7	M12x45	1/2–13 UNC x 1-3/4	BFX90-604-ES-42.8/32-W1		
		6090	1.26	1.69	.98	3.74	3.66	1.25	2.62	.63	1.50	2.20	.53	355.74					
32	1-1/4	420	32	42,8	25	95	93	31,8	66,6	16	38	56	15	145,5	M14x45		BFX90-604-ES-42.8/32-M14-W1		
		6090	1.26	1.69	.98	3.74	3.66	1.25	2.62	.63	1.50	2.20	.59	320.10					
32	1-1/4	420	22/32	30,3	25	95	93	31,8	66,6	16	38	56	13,5	177,0	M12x45	1/2–13 UNC x 1-3/4	BFX90-604-ES-30.3/22-W1		
		6090	.87/1.25	1.19	.98	3.74	3.66	1.25	2.62	.63	1.50	2.20	.53	389.40					
32	1-1/4	420	22/32	30,3	25	95	93	31,8	66,6	16	38	56	15	176,6	M14x45		BFX90-604-ES-30.3/22-M14-W1		
		6090	.87/1.25	1.19	.98	3.74	3.66	1.25	2.62	.63	1.50	2.20	.59	388.52					
32	1-1/4	420	27/32	38,3	25	95	93	31,8	66,6	16	38	56	13,5	176,6	M12x45	1/2–13 UNC x 1-3/4	BFX90-604-ES-38.3/27-W1		
		6090	1.06/1.25	1.51	.98	3.74	3.66	1.25	2.62	.63	1.50	2.20	.53	388.52					
32	1-1/4	420	27/32	38,3	25	95	93	31,8	66,6	16	38	56	15	161,7	M14x45		BFX90-604-ES-38.3/27-M14-W1		
		6090	1.06/1.25	1.51	.98	3.74	3.66	1.25	2.62	.63	1.50	2.20	.59	355.74					
38	1-1/2	420	38	48,6	25	110	110	36,5	79,3	18	42	65	17	254,2	M16x50	5/8–11 UNC x 2	BFX90-605-ES-48.6/38-W1		
		6090	1.50	1.91	.98	4.33	4.33	1.44	3.12	.71	1.65	2.56	.67	559.24					
51	2	420	51	61	35	132	134	44,5	96,8	28	45	75	21	333,6	M20x70	3/4–10 UNC x 2-3/4	BFX90-606-ES-61/51-W1		
		6090	2.01	2.40	1.38	5.20	5.28	1.75	3.81	1.10	1.77	2.95	.83	733.92					

Please see Page 89 for separate Bolt Sets and Sealings.

¹ The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

² For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

Materials / Ordering Options / Examples

- * SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled)
- * SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request)

BFX90-...-ES-**-**-W1
BFX90-...-ES-**-**-W5

- * Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)
- * Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)
- * Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®)

BFX90-...-ES-**-**-W1-K
BFX90-...-ES-**-**-V-W1-K
BFX90-...-ES-**-**-U-W1-K

Please always indicate ØB / ØA.