
























# STAUFF Flanges

High-pressure flange connectors  
and gear pump flanges

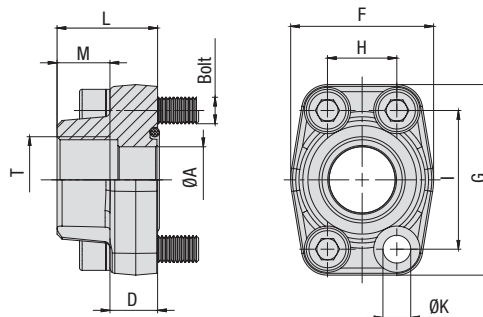
---

Product Catalogue



	<b>SAE Single-Part Flange with Female BSPP Thread</b> BFX-G	40		<b>SAE 90° Single-Part Flange with Female BSPP Thread</b> BFX90-G	71
	<b>SAE Single-Part Counterflange with Female BSPP Thread</b> BAS-G	42		<b>SAE 90° Single-Part Flange with Female NPT Thread</b> BFX90-N	72
	<b>SAE Single-Part Flange with Female NPT Thread</b> BFX-N	44		<b>SAE 90° Single-Part Butt-Weld Flange for High Pressure Tubes</b> BFX90-STC	73
	<b>SAE Single-Part Counterflange with Female NPT Thread</b> BAS-N	46		<b>SAE 90° Single-Part Butt-Weld Flange for Metric Tubes</b> BFX90-SRE	74
	<b>SAE Single-Part Flange with Female UN/UNF Thread</b> BFX-U	48		<b>SAE 90° Single-Part Socket-Weld Flange</b> BFX90-ES	76
	<b>SAE Single-Part Butt-Weld Flange for High Pressure Tubes</b> BFX-ST	50		<b>SAE 90° Single-Part Flange with Male Metric Thread and 24° Conical Bore (Shape W acc. to DIN 3861)</b> BFX90-L/S	78
	<b>SAE Single-Part Butt-Weld Counterflange for High Pressure Tubes</b> BAS-ST	52			
	<b>SAE Single-Part Butt-Weld Flange for Low Pressure Tubes</b> BFX-STRE	54			
	<b>SAE Single-Part Butt-Weld Counterflange for Low Pressure Tubes</b> BAS-STRE	55			
	<b>SAE Single-Part Butt-Weld Flange for Metric Tubes</b> BFX-SRE	56			
	<b>SAE Single-Part Butt-Weld Counterflange for Metric Tubes</b> BAS-SRE	58			
	<b>SAE Single-Part Socket-Weld Flange</b> BFX-ES	60			
	<b>SAE Single-Part Socket-Weld Counterflange</b> BAS-ES	62			
	<b>SAE Single-Part Socket-Weld Flange (Flat Style)</b> BFX-FL-ES	64			
	<b>SAE Single-Part Socket-Weld Counterflange (Flat Style)</b> BAS-FL-ES	65			
	<b>SAE Single-Part Flange with Male Metric Thread and 24° Conical Bore (Shape W acc. to DIN 3861)</b> BFX-L/S	66			
	<b>SAE Single-Part Flange with Male BSPP Thread and 60° Conical Bore (acc. to BS 5200)</b> BFX-B	68			
	<b>SAE Single-Part Flange with Male UN/UNF Thread and 37° JIC Taper (acc. to ISO 8434-2 / SAE J514)</b> BFX-J	70			

SAE Single-Part Flange with Female BSPP Thread  
Type BFX-G • 3000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) ca. per 100	for Bolts			Ordering Codes
				ØA	D	F	G	H	I	L	M	T (BSPP)	ØK <sup>3</sup>		Metric <sup>3</sup>	UNC		
13	1/2		350	13	16	47	57	17,5	38,1	36	15	1/2	8,7	27,6	M8x30	5/16-18 UNC x 1-1/4	BFX-301-G-W1	
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.59		.34	60.72				
13	1/2		350	13	16	47	57	17,5	38,1	36	20	3/8 (06)	8,7	29,3	M8x30	5/16-18 UNC x 1-1/4	BFX-301-G06-W1	
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.79			.34				64.46
19	3/4		350	19	18	50	67	22,3	47,6	36	18	3/4	10,5	38,6	M10x35	3/8-16 UNC x 1-1/2	BFX-302-G-W1	
			5075	.75	.71	1.97	2.64	.88	1.87	1.42	.71			.41				84.92
19	3/4		350	13	18	50	67	22,3	47,6	36	15	1/2 (08)	10,5	40,3	M10x35	3/8-16 UNC x 1-1/2	BFX-302-G08-W1	
			5075	.51	.71	1.97	2.64	.88	1.87	1.42	.59			.41				88.66
25	1		345	25	18	54	72	26,2	52,4	38	20	1	10,5	45,4	M10x35	3/8-16 UNC x 1-1/2	BFX-303-G-W1	
			5003	.98	.71	2.13	2.83	1.03	2.06	1.50	.79			.41				99.88
25	1		345	19	18	54	72	26,2	52,4	38	18	3/4 (12)	10,5	54,0	M10x35	3/8-16 UNC x 1-1/2	BFX-303-G12-W1	
			5003	.75	.71	2.13	2.83	1.03	2.06	1.50	.71			.41				118.80
32	1-1/4		280	31	21	68	82	30,2	58,7	41	22	1-1/4	11,5 (13,5)	67,9	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-G-W1	
			4061	1.22	.83	2.68	3.23	1.19	2.31	1.61	.87			.45 (.53)				149.38
32	1-1/4		280	25	21	68	82	30,2	58,7	41	20	1 (16)	11,5 (13,5)	85,5	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-G16-W1	
			4061	.98	.83	2.68	3.23	1.19	2.31	1.61	.79			.45 (.53)				188.10
38	1-1/2		210	38	25	79	96	35,7	69,9	44	24	1-1/2	13,5 (14,5)	113,9	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-G-W1	
			3045	1.50	.98	3.11	3.78	1.41	2.75	1.73	.94			.53 (.57)				250.58
38	1-1/2		210	31	25	79	96	35,7	69,9	44	22	1-1/4 (20)	13,5 (14,5)	119,7	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-G20-W1	
			3045	1.22	.98	3.11	3.78	1.41	2.75	1.73	.87			.53 (.57)				263.34
51	2		210	50	25,5	88	102	42,9	77,8	45	26	2	13,5 (14,5)	120,4	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-G-W1	
			3045	1.97	1.00	3.46	4.02	1.69	3.06	1.77	1.02			.53 (.57)				264.88
51	2		210	38	25,5	88	102	42,9	77,8	45	24	1-1/2 (24)	13,5 (14,5)	154,6	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-G24-W1	
			3045	1.50	1.00	3.46	4.02	1.69	3.06	1.77	.94			.53 (.57)				340.12
64	2-1/2		175	63	26	101	115	50,8	88,9	50	30	2-1/2	13,5 (14,5)	154,5	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-G-W1	
			2538	2.48	1.02	3.98	4.53	2.00	3.50	1.97	1.18			.53 (.57)				339.90
64	2-1/2		175	50	26	101	115	50,8	88,9	50	26	2 (32)	13,5 (14,5)	201,8	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-G32-W1	
			2538	1.97	1.02	3.98	4.53	2.00	3.50	1.97	1.02			.53 (.57)				443.96
76	3		160	73	27,5	127	137	61,9	106,4	50	30	3	17	215,0	M16x50	5/8-11 UNC x 2	BFX-308-G-W1	
			2320	2.87	1.08	5.00	5.39	2.44	4.19	1.97	1.18			.67				473.00
76	3		160	63	27,5	127	137	61,9	106,4	50	30	2-1/2 (40)	17	257,2	M16x50	5/8-11 UNC x 2	BFX-308-G40-W1	
			2320	2.48	1.08	5.00	5.39	2.44	4.19	1.97	1.18			.67				565.84
89	3-1/2		35	89	27,5	138	155	69,8	120,7	50	30	3-1/2	17	247,2	M16x50	5/8-11 UNC x 2	BFX-309-G-W1	
			508	3.50	1.08	5.43	6.10	2.75	4.75	1.97	1.18			.67				543.84
102	4		35	99	27,5	147	163	77,8	130,2	50	30	4	17	292,5	M16x50	5/8-11 UNC x 2	BFX-310-G-W1	
			508	3.90	1.08	5.79	6.42	3.06	5.13	1.97	1.18			.67				643.50
127	5		35	120	28	180	184	92	152,4	50	30	5	17	365,0	M16x55	5/8-11 UNC x 2-1/4	BFX-311-G-W1	
			508	4.72	1.10	7.09	7.24	3.62	6.00	1.97	1.18			.67				803.00

Please see Page 89 for separate Bolt Sets and Sealings.

Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) **BFX-...-G-W1**
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A - 1.4404 (on request) **BFX-...-G-W5**

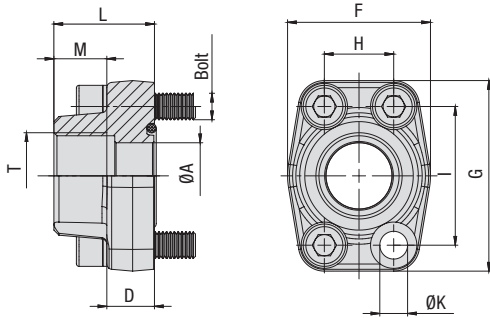
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP) **BFX-...-G20-W1**

- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX-...-G-W1-K**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) **BFX-...-G-V-W1-K**
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) **BFX-...-G-U-W1-K**

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Flange with Female BSPP Thread  
Type BFX-G • 6000 PSI Series



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

C

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) Ca.		for Bolts		Ordering Codes
DN	(in)		10.9	ØA	D	F	G	H	I	L	M	T (BSPP)	ØK	per 100	Metric	UNC	
13	1/2	420	13	16,5	47	57	18,2	40,5	36	15	1/2	8,7	27,2	M8x30	5/16-18 UNC x 1-1/4	BFX-601-G-W1	
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.59		.34	59.84				
13	1/2	420	13	16,5	47	57	18,2	40,5	36	20	3/8 (06)	8,7	29,3	M8x30	5/16-18 UNC x 1-1/4	BFX-601-G06-W1	
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.79		.34	64.46				
19	3/4	420	19	19,5	54	72	23,8	50,8	36	18	3/4	10,5	54,3	M10x35	3/8-16 UNC x 1-1/2	BFX-602-G-W1	
		6090	.75	.77	2.13	2.83	.94	2.00	1.42	.71		.41	119.46				
19	3/4	420	14	19,5	54	72	23,8	50,8	36	15	1/2 (08)	10,5	55,7	M10x35	3/8-16 UNC x 1-1/2	BFX-602-G08-W1	
		6090	.55	.77	2.13	2.83	.94	2.00	1.42	.59		.41	122.54				
25	1	420	25	24,5	68	82	27,8	57,2	44	20	1	13	83,7	M12x45	7/16-14 UNC x 1-3/4	BFX-603-G-W1 <sup>2</sup>	
		6090	.98	.96	2.68	3.23	1.09	2.25	1.73	.79		.51	184.14				
25	1	420	19	24,5	68	82	27,8	57,2	44	18	3/4 (12)	13	80,0	M12x45	7/16-14 UNC x 1-3/4	BFX-603-G12-W1 <sup>2</sup>	
		6090	.75	.96	2.68	3.23	1.09	2.25	1.73	.71		.51	176.00				
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	13,5	119,3	M12x45	1/2-13 UNC x 1-3/4	BFX-604-G-W1	
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		.53	262.46				
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	15	112,6	M14x45		BFX-604-G-M14-W1	
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		.59	247.72				
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1	13,5	122,0	M12x45	1/2-13 UNC x 1-3/4	BFX-604-G16-W1	
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		.53	268.40				
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1	15	118,4	M14x45		BFX-604-G16-M14-W1	
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		.59	260.48				
38	1-1/2	420	38	31	88	108	36,5	79,3	51	24	1-1/2	17	183,3	M16x55	5/8-11 UNC x 2-1/4	BFX-605-G-W1	
		6090	1.50	1.22	3.46	4.25	1.44	3.12	2.01	.94		.67	403.26				
38	1-1/2	420	31	31	88	108	36,5	79,3	51	22	1-1/4 (20)	17	196,0	M16x55	5/8-11 UNC x 2-1/4	BFX-605-G20-W1	
		6090	1.22	1.22	3.46	4.25	1.44	3.12	2.01	.87		.67	431.20				
51	2	420	50	37	118	137	44,5	96,8	65	33	2	21	327,9	M20x70	3/4-10 UNC x 2-3/4	BFX-606-G-W1	
		6090	1.97	1.46	4.65	5.39	1.75	3.81	2.56	1.30		.83	721.38				
64	2-1/2	420	63	45	152	180	58,7	123,8	80	35	2-1/2	26	678,1	M24x80		BFX-607-G-W1	
		6090	2.48	1.77	5.98	7.09	2.31	4.87	3.15	1.38		1.02	1491.82				

Please see Page 89 for separate Bolt Sets and Sealings.

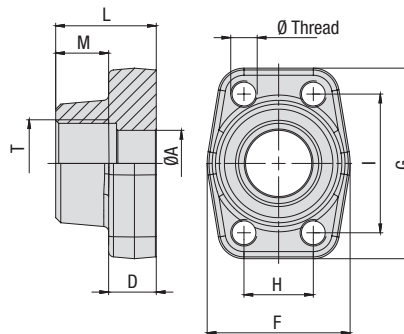
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

<sup>2</sup> 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) BFX-...-G-W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX-...-G-W5
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP) BFX-...-G20-W1
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-G-W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-G-V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX-...-G-U-W1-K

**SAE Single-Part Counterflange with Female BSPP Thread  
Type BAS-G - 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

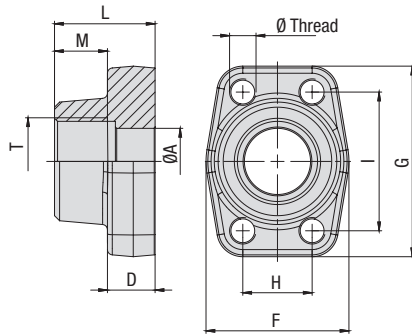
Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)								T (BSPP)	Weight (kg/lbs) ca. per 100	Ø Thread		Ordering Codes
				10.9	ØA	D	F	G	H	I	L			M	Metric <sup>3</sup>	
13	1/2		350	13	16	47	57	17,5	38,1	36	15	1/2	29,0	M8	5/16-18 UNC	BAS-301-G-W1
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.59		63.80			
13	1/2		350	13	16	47	57	17,5	38,1	36	20	3/8 (06)	30,8	M8	5/16-18 UNC	BAS-301-G06-W1
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.79		67.76			
19	3/4		350	19	18	50	67	22,3	47,6	36	18	3/4	41,4	M10	3/8-16 UNC	BAS-302-G-W1
			5075	.75	.71	1.97	2.64	.88	1.87	1.42	.71		91.08			
19	3/4		350	13	18	50	67	22,3	47,6	36	15	1/2 (08)	43,4	M10	3/8-16 UNC	BAS-302-G08-W1
			5075	.51	.71	1.97	2.64	.88	1.87	1.42	.59		95.48			
25	1		345	25	18	54	72	26,2	52,4	38	20	1	47,0	M10	3/8-16 UNC	BAS-303-G-W1
			5003	.98	.71	2.13	2.83	1.03	2.06	1.50	.79		103.40			
25	1		345	19	18	54	72	26,2	52,4	38	18	3/4 (12)	56,7	M10	3/8-16 UNC	BAS-303-G12-W1
			5003	.75	.71	2.13	2.83	1.03	2.06	1.50	.71		124.74			
32	1-1/4		280	31	21	68	82	30,2	58,7	41	22	1-1/4	69,5	M10 (M12)	7/16-14 UNC	BAS-304-G-W1
			4061	1.22	.83	2.68	3.23	1.19	2.31	1.61	.87		152.90			
32	1-1/4		280	25	21	68	82	30,2	58,7	41	20	1 (16)	84,4	M10 (M12)	7/16-14 UNC	BAS-304-G16-W1
			4061	.98	.83	2.68	3.23	1.19	2.31	1.61	.79		185.68			
38	1-1/2		210	38	25	79	96	35,7	69,9	44	24	1-1/2	114,3	M12 (M14)	1/2-13 UNC	BAS-305-G-W1
			3045	1.50	.98	3.11	3.78	1.41	2.75	1.73	.94		251.46			
38	1-1/2		210	31	25	79	96	35,7	69,9	44	22	1-1/4 (20)	124,6	M12 (M14)	1/2-13 UNC	BAS-305-G20-W1
			3045	1.22	.98	3.11	3.78	1.41	2.75	1.73	.87		274.12			
51	2		210	50	25,5	88	102	42,9	77,8	45	26	2	125,7	M12 (M14)	1/2-13 UNC	BAS-306-G-W1
			3045	1.97	1.00	3.46	4.02	1.69	3.06	1.77	1.02		276.54			
51	2		210	38	25,5	88	102	42,9	77,8	45	24	1-1/2 (24)	158,0	M12 (M14)	1/2-13 UNC	BAS-306-G24-W1
			3045	1.50	1.00	3.46	4.02	1.69	3.06	1.77	.94		347.60			
64	2-1/2		175	63	26	101	115	50,8	88,9	50	30	2-1/2	158,1	M12 (M14)	1/2-13 UNC	BAS-307-G-W1
			2538	2.48	1.02	3.98	4.53	2.00	3.50	1.97	1.18		347.82			
64	2-1/2		175	50	26	101	115	50,8	88,9	50	26	2 (32)	209,5	M12 (M14)	1/2-13 UNC	BAS-307-G32-W1
			2538	1.97	1.02	3.98	4.53	2.00	3.50	1.97	1.02		460.90			
76	3		160	73	27,5	127	137	61,9	106,4	50	30	3	229,4	M16	5/8-11 UNC	BAS-308-G-W1
			2320	2.87	1.08	5.00	5.39	2.44	4.19	1.97	1.18		504.68			
76	3		160	63	27,5	127	137	61,9	106,4	50	30	2-1/2 (40)	273,4	M16	5/8-11 UNC	BAS-308-G40-W1
			2320	2.48	1.08	5.00	5.39	2.44	4.19	1.97	1.18		601.48			
89	3-1/2		35	89	27,5	138	155	69,8	120,7	50	30	3-1/2	253,0	M16	5/8-11 UNC	BAS-309-G-W1
			508	3.50	1.08	5.43	6.10	2.75	4.75	1.97	1.18		556.60			
102	4		35	99	27,5	147	163	77,8	130,2	50	30	4	302,5	M16	5/8-11 UNC	BAS-310-G-W1
			508	3.90	1.08	5.79	6.42	3.06	5.13	1.97	1.18		665.50			
127	5		35	120	28	180	184	92	152,4	50	30	5	379,2	M16	5/8-11 UNC	BAS-311-G-W1
			508	4.72	1.10	7.09	7.24	3.62	6.00	1.97	1.18		834.24			

**Materials / Ordering Options / Examples**

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-G-W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A - 1.4404 (on request) with Metric tapped holes **BAS-...-G-W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-G-M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-G-U-W1**
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP) **BAS-...-G20-W1**

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.



### SAE Single-Part Counterflange with Female BSPP Thread Type BAS-G • 6000 PSI Series



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

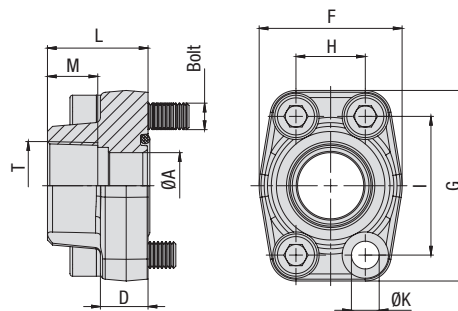
Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) Ca.	Ø Thread	Ordering Codes	
DN	(in)	10.9	ØA	D	F	G	H	I	L	M	T (BSPP)	per 100	Metric	UNC	
13	1/2	420	13	16,5	47	57	18,2	40,5	36	15	1/2	28,9	M8	5/16-18 UNC	BAS-601-G-W1
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.59		63.58			
13	1/2	420	13	16,5	47	57	18,2	40,5	36	20	3/8 (06)	31,3	M8	5/16-18 UNC	BAS-601-G06-W1
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.79		68.86			
19	3/4	420	19	19,5	54	72	23,8	50,8	36	18	3/4	52,6	M10	3/8-16 UNC	BAS-602-G-W1
		6090	.75	.77	2.13	2.83	.94	2.00	1.42	.71		115.72			
19	3/4	420	14	19,5	54	72	23,8	50,8	36	15	1/2 (08)	58,6	M10	3/8-16 UNC	BAS-602-G08-W1
		6090	.55	.77	2.13	2.83	.94	2.00	1.42	.59		128.92			
25	1	420	25	24,5	68	82	27,8	57,2	44	20	1	77,9	M12	7/16-14 UNC	BAS-603-G-W1
		6090	.98	.96	2.68	3.23	1.09	2.25	1.73	.79		171.38			
25	1	420	19	24,5	68	82	27,8	57,2	44	18	3/4 (12)	88,3	M12	7/16-14 UNC	BAS-603-G12-W1
		6090	.75	.96	2.68	3.23	1.09	2.25	1.73	.71		194.26			
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	123,8	M12	1/2-13 UNC	BAS-604-G-W1
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		272.36			
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	119,9	M14		BAS-604-G-M14-W1
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		263.78			
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1 (16)	123,8	M12	1/2-13 UNC	BAS-604-G16-W1
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		272.36			
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1 (16)	122,4	M14		BAS-604-G16-M14-W1
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		269.28			
38	1-1/2	420	38	31	88	108	36,5	79,3	51	24	1-1/2	186,9	M16	5/8-11 UNC	BAS-605-G-W1
		6090	1.50	1.22	3.46	4.25	1.44	3.12	2.01	.94		411.18			
38	1-1/2	420	31	31	88	108	36,5	79,3	51	22	1-1/4 (20)	203,4	M16	5/8-11 UNC	BAS-605-G20-W1
		6090	1.22	1.22	3.46	4.25	1.44	3.12	2.01	.87		447.48			
51	2	420	50	37	118	137	44,5	96,8	58	33	2	341,5	M20	3/4-10 UNC	BAS-606-G-W1
		6090	1.97	1.46	4.65	5.39	1.75	3.81	2.28	1.30		751.30			
64	2-1/2	420	63	45	152	180	58,7	123,8	80	35	2-1/2	696,0	M24		BAS-607-G-W1
		6090	2.48	1.77	5.98	7.09	2.31	4.87	3.15	1.38		1531.20			

<sup>1</sup> 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.

#### Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-G-W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes **BAS-...-G-W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-G-M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-G-U-W1**
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP) **BAS-...-G20-W1**

**SAE Single-Part Flange with Female NPT Thread  
Type BFX-N • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	DN	(in)	PN <sup>1</sup>		Dimensions								Weight (* <sup>3</sup> /lb) ca.	for Bolts			Ordering Codes
			(bar/PSI)	(mm/in)	10.9	ØA	D	F	G	H	I	L		M	T (NPT)	ØK <sup>3</sup>	
13	1/2		350	13	16	47	57	17,5	38,1	36	15	1/2	8,7	27,6	M8x30	5/16-18 UNC x 1-1/4	BFX-301-N-W1
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.59		.34	60.72			
13	1/2		350	13	16	47	57	17,5	38,1	36	20	3/8 (06)	8,7	30,7	M8x30	5/16-18 UNC x 1-1/4	BFX-301-N06-W1
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.79		.34	67.54			
19	3/4		350	19	18	50	67	22,3	47,6	36	18	3/4	10,5	38,8	M10x35	3/8-16 UNC x 1-1/2	BFX-302-N-W1
			5075	.75	.71	1.97	2.64	.88	1.87	1.42	.71		.41	85.36			
19	3/4		350	13	18	50	67	22,3	47,6	36	15	1/2 (08)	10,5	40,0	M10x35	3/8-16 UNC x 1-1/2	BFX-302-N08-W1
			5075	.51	.71	1.97	2.64	.88	1.87	1.42	.59		.41	88.00			
25	1		345	25	18	54	72	26,2	52,4	38	20	1	10,5	46,0	M10x35	3/8-16 UNC x 1-1/2	BFX-303-N-W1
			5003	.98	.71	2.13	2.83	1.03	2.06	1.50	.79		.41	101.20			
25	1		345	19	18	54	72	26,2	52,4	38	18	3/4 (12)	10,5	53,3	M10x35	3/8-16 UNC x 1-1/2	BFX-303-N12-W1
			5003	.75	.71	2.13	2.83	1.03	2.06	1.50	.71		.41	117.26			
32	1-1/4		280	31	21	68	82	30,2	58,7	41	22	1-1/4	11,5 (13,5)	69,5	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-N-W1
			4061	1.22	.83	2.68	3.23	1.19	2.31	1.61	.87		.4 (.53)	152.90			
32	1-1/4		280	25	21	68	82	30,2	58,7	41	20	1 (16)	11,5 (13,5)	84,0	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-N16-W1
			4061	.98	.83	2.68	3.23	1.19	2.31	1.61	.79		.45 (.53)	184.80			
38	1-1/2		210	38	25	79	96	35,7	69,9	44	24	1-1/2	13,5 (14,5)	106,6	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-N-W1
			3045	1.50	.98	3.11	3.78	1.41	2.75	1.73	.94		.53 (.57)	234.52			
38	1-1/2		210	31	25	79	96	35,7	69,9	44	22	1-1/4 (20)	13,5 (14,5)	125,8	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-N20-W1
			3045	1.22	.98	3.11	3.78	1.41	2.75	1.73	.87		.53 (.57)	276.76			
51	2		210	50	25,5	88	102	42,9	77,8	45	26	2	13,5 (14,5)	122,9	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-N-W1
			3045	1.97	1.00	3.46	4.02	1.69	3.06	1.77	1.02		.53 (.57)	270.38			
51	2		210	38	25,5	88	102	42,9	77,8	45	24	1-1/2 (24)	13,5 (14,5)	150,0	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-N24-W1
			3045	1.50	1.00	3.46	4.02	1.69	3.06	1.77	.94		.53 (.57)	330.00			
64	2-1/2		175	63	26	101	115	50,8	88,9	50	30	2-1/2	13,5 (14,5)	153,9	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-N-W1
			2538	2.48	1.02	3.98	4.53	2.00	3.50	1.97	1.18		.53 (.57)	338.58			
64	2-1/2		175	50	26	101	115	50,8	88,9	50	26	2 (32)	13,5 (14,5)	202,9	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-N32-W1
			2538	1.97	1.02	3.98	4.53	2.00	3.50	1.97	1.02		.53 (.57)	446.38			
76	3		160	73	27,5	127	137	61,9	106,4	50	30	3	17	225,7	M16x50	5/8-11 UNC x 2	BFX-308-N-W1
			2320	2.87	1.08	5.00	5.39	2.44	4.19	1.97	1.18		.67	496.54			
76	3		160	63	27,5	127	137	61,9	106,4	50	30	2-1/2 (40)	17	269,7	M16x50	5/8-11 UNC x 2	BFX-308-N40-W1
			2320	2.48	1.08	5.00	5.39	2.44	4.19	1.97	1.18		.67	593.34			
89	3-1/2		35	89	27,5	138	155	69,8	120,7	50	30	3-1/2	17	255,0	M16x50	5/8-11 UNC x 2	BFX-309-N-W1
			508	3.50	1.08	5.43	6.10	2.75	4.75	1.97	1.18		.67	561.00			
102	4		35	99	27,5	147	163	77,8	130,2	50	30	4	17	286,8	M16x50	5/8-11 UNC x 2	BFX-310-N-W1
			508	3.90	1.08	5.79	6.42	3.06	5.13	1.97	1.18		.67	630.96			
127	5		35	120	28	180	184	92	152,4	50	30	5	17	365,2	M16x55	5/8-11 UNC x 2-1/4	BFX-311-N-W1
			508	4.72	1.10	7.09	7.24	3.62	6.00	1.97	1.18		.67	803.44			

Please see Page 89 for separate Bolt Sets and Sealings.

**Materials / Ordering Options / Examples**

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) **BFX-...-N-W1**
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) **BFX-...-N-W5**

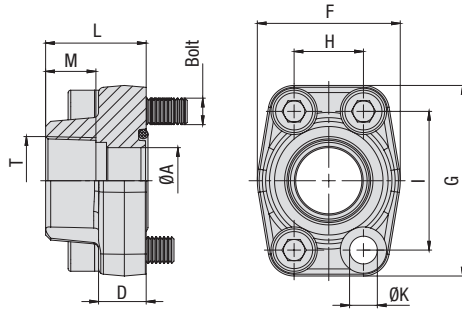
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 NPT) **BFX-...-N20-W1**

- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX-...-N-W1-K**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) **BFX-...-N-V-W1-K**
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) **BFX-...-N-U-W1-K**

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Flange with Female NPT Thread  
Type BFX-N • 6000 PSI Series



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

C

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) Ca. per 100	for Bolts		Ordering Codes
DN	(in)		10.9	ØA	D	F	G	H	I	L	M	T (NPT)		ØK	Metric	
13	1/2	420	13	16,5	47	57	18,2	40,5	36	15	1/2	8,7	27,6	M8x30	5/16-18 UNC x 1-1/4	BFX-601-N-W1
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.59		.34	60.72			
13	1/2	420	13	16,5	47	57	18,2	40,5	36	20	3/8 (06)	8,7	31,5	M8x30	5/16-18 UNC x 1-1/4	BFX-601-N06-W1
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.79		.34	69.30			
19	3/4	420	19	19,5	54	72	23,8	50,8	36	18	3/4	10,5	54,9	M10x35	3/8-16 UNC x 1-1/2	BFX-602-N-W1
		6090	.75	.77	2.13	2.83	.94	2.00	1.42	.71		.41	120.78			
19	3/4	420	14	19,5	54	72	23,8	50,8	36	15	1/2 (08)	10,5	56,3	M10x35	3/8-16 UNC x 1-1/2	BFX-602-N08-W1
		6090	.55	.77	2.13	2.83	.94	2.00	1.42	.59		.41	123.86			
25	1	420	25	24,5	68	82	27,8	57,2	44	20	1	13	79,0	M12x45	7/16-14 UNC x 1-3/4	BFX-603-N-W1 <sup>2</sup>
		6090	.98	.96	2.68	3.23	1.09	2.25	1.73	.79		.51	173.80			
25	1	420	19	24,5	68	82	27,8	57,2	44	18	3/4 (12)	13	92,9	M12x45	7/16-14 UNC x 1-3/4	BFX-603-N12-W1 <sup>2</sup>
		6090	.75	.96	2.68	3.23	1.09	2.25	1.73	.71		.51	204.38			
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	13,5	119,0	M12x45	1/2-13 UNC x 1-3/4	BFX-604-N-W1
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		.53	261.80			
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	15	114,6	M14x45		BFX-604-N-M14-W1
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		.59	252.12			
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1	13,5	120,3	M12x45	1/2-13 UNC x 1-3/4	BFX-604-N16-W1
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		.53	264.66			
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1 (16)	15	127,7	M14x45		BFX-604-N16-M14-W1
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		.59	280.94			
38	1-1/2	420	38	31	88	108	36,5	79,3	51	24	1-1/2	17	190,6	M16x55	5/8-11 UNC x 2-1/4	BFX-605-N-W1
		6090	1.50	1.22	3.46	4.25	1.44	3.12	2.01	.94		.67	419.32			
38	1-1/2	420	31	31	88	108	36,5	79,3	51	22	1-1/4 (20)	17	185,4	M16x55	5/8-11 UNC x 2-1/4	BFX-605-N20-W1
		6090	1.22	1.22	3.46	4.25	1.44	3.12	2.01	.87		.67	407.88			
51	2	420	50	37	118	137	44,5	96,8	65	33	2	21	330,5	M20x70	3/4-10 UNC x 2-3/4	BFX-606-N-W1
		6090	1.97	1.46	4.65	5.39	1.75	3.81	2.56	1.30		.83	727.10			

Please see Page 89 for separate Bolt Sets and Sealings.

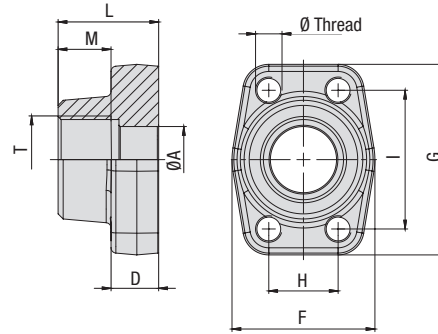
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

<sup>2</sup> 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) BFX-...-N-W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX-...-N-W5
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 NPT) BFX-...-N20-W1
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-N-W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-N-V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX-...-N-U-W1-K

## SAE Single-Part Counterflange with Female NPT Thread Type BAS-N - 3000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

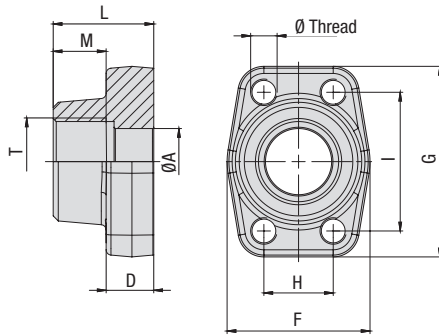
Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)								T (NPT)	Weight (kg/lbs) ca. per 100	Ø Thread		Ordering Codes
				10.9	ØA	D	F	G	H	I	L			M	Metric <sup>3</sup>	
13	1/2		350	13	16	47	57	17,5	38,1	36	15	1/2	29,0	M8	5/16-18 UNC	BAS-301-N-W1
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.59		63.80			
13	1/2		350	13	16	47	57	17,5	38,1	36	20	3/8 (06)	30,8	M8	5/16-18 UNC	BAS-301-N06-W1
			5075	.51	.63	1.85	2.24	.69	1.50	1.42	.79		67.76			
19	3/4		350	19	18	50	67	22,3	47,6	36	18	3/4	40,8	M10	3/8-16 UNC	BAS-302-N-W1
			5075	.75	.71	1.97	2.64	.88	1.87	1.42	.71		89.80			
19	3/4		350	13	18	50	67	22,3	47,6	36	15	1/2 (08)	43,6	M10	3/8-16 UNC	BAS-302-N08-W1
			5075	.51	.71	1.97	2.64	.88	1.87	1.42	.59		95.92			
25	1		345	25	18	54	72	26,2	52,4	38	20	1	49,5	M10	3/8-16 UNC	BAS-303-N-W1
			5003	.98	.71	2.13	2.83	1.03	2.06	1.50	.79		108.90			
25	1		345	19	18	54	72	26,2	52,4	38	18	3/4 (12)	44,6	M10	3/8-16 UNC	BAS-303-N12-W1
			5003	.75	.71	2.13	2.83	1.03	2.06	1.50	.71		98.12			
32	1-1/4		280	31	21	68	82	30,2	58,7	41	22	1-1/4	71,2	M10 (M12)	7/16-14 UNC	BAS-304-N-W1
			4061	1.22	.83	2.68	3.23	1.19	2.31	1.61	.87		156.64			
32	1-1/4		280	25	21	68	82	30,2	58,7	41	20	1 (16)	85,9	M10 (M12)	7/16-14 UNC	BAS-304-N16-W1
			4061	.98	.83	2.68	3.23	1.19	2.31	1.61	.79		188.98			
38	1-1/2		210	38	25	79	96	35,7	69,9	44	24	1-1/2	110,6	M12 (M14)	1/2-13 UNC	BAS-305-N-W1
			3045	1.50	.98	3.11	3.78	1.41	2.75	1.73	.94		243.36			
38	1-1/2		210	31	25	79	96	35,7	69,9	44	22	1-1/4 (20)	125,7	M12 (M14)	1/2-13 UNC	BAS-305-N20-W1
			3045	1.22	.98	3.11	3.78	1.41	2.75	1.73	.87		276.54			
51	2		210	50	25,5	88	102	42,9	77,8	45	26	2	127,0	M12 (M14)	1/2-13 UNC	BAS-306-N-W1
			3045	1.97	1.00	3.46	4.02	1.69	3.06	1.77	1.02		279.40			
51	2		210	38	25,5	88	102	42,9	77,8	45	24	1-1/2 (24)	156,2	M12 (M14)	1/2-13 UNC	BAS-306-N24-W1
			3045	1.50	1.00	3.46	4.02	1.69	3.06	1.77	.94		343.64			
64	2-1/2		175	63	26	101	115	50,8	88,9	50	30	2-1/2	176,1	M12 (M14)	1/2-13 UNC	BAS-307-N-W1
			2538	2.48	1.02	3.98	4.53	2.00	3.50	1.97	1.18		387.42			
64	2-1/2		175	50	26	101	115	50,8	88,9	50	26	2 (32)	176,1	M12 (M14)	1/2-13 UNC	BAS-307-N32-W1
			2538	1.97	1.02	3.98	4.53	2.00	3.50	1.97	1.02		387.42			
76	3		160	73	27,5	127	137	61,9	106,4	50	30	3	233,3	M16	5/8-11 UNC	BAS-308-N-W1
			2320	2.87	1.08	5.00	5.39	2.44	4.19	1.97	1.18		513.26			
76	3		160	63	27,5	127	137	61,9	106,4	50	30	2-1/2 (40)	233,3	M16	5/8-11 UNC	BAS-308-N40-W1
			2320	2.48	1.08	5.00	5.39	2.44	4.19	1.97	1.18		513.26			
89	3-1/2		35	89	27,5	138	155	69,8	120,7	50	30	3-1/2	253,0	M16	5/8-11 UNC	BAS-309-N-W1
			508	3.50	1.08	5.43	6.10	2.75	4.75	1.97	1.18		556.60			
102	4		35	99	27,5	147	163	77,8	130,2	50	30	4	287,6	M16	5/8-11 UNC	BAS-310-N-W1
			508	3.90	1.08	5.79	6.42	3.06	5.13	1.97	1.18		632.72			
127	5		35	120	28	180	184	92	152,4	50	30	5	379,2	M16	5/8-11 UNC	BAS-309-N-W1
			508	4.72	1.10	7.09	7.24	3.62	6.00	1.97	1.18		834.24			

### Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-N-W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A - 1.4404 (on request) with Metric tapped holes **BAS-...-N-W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-N-M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-N-U-W1**
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 NPT) **BAS-...-N20-W1**

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.



## SAE Single-Part Counterflange with Female NPT Thread Type BAS-N • 6000 PSI Series



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

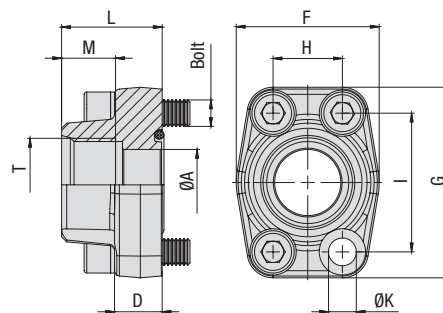
Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) Ca. per 100	Ø Thread		Ordering Codes
DN	(in)	10.9	ØA	D	F	G	H	I	L	M	T (NPT)	Metric	UNC		
13	1/2	420	13	16,5	47	57	18,2	40,5	36	15	1/2	M8	5/16-18 UNC	BAS-601-N-W1	
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.59		63.14			
13	1/2	420	13	16,5	47	57	18,2	40,5	36	20	3/8 (06)	M8	5/16-18 UNC	BAS-601-N06-W1	
		6090	.51	.65	1.85	2.24	.72	1.59	1.42	.79		30,7			
19	3/4	420	19	19,5	54	72	23,8	50,8	36	18	3/4	M10	3/8-16 UNC	BAS-602-N-W1	
		6090	.75	.77	2.13	2.83	.94	2.00	1.42	.71		57,0			
19	3/4	420	14	19,5	54	72	23,8	50,8	36	15	1/2 (08)	M10	3/8-16 UNC	BAS-602-N08-W1	
		6090	.55	.77	2.13	2.83	.94	2.00	1.42	.59		58,9			
25	1	420	25	24,5	68	82	27,8	57,2	44	20	1	M12	7/16-14 UNC	BAS-603-N-W1	
		6090	.98	.96	2.68	3.23	1.09	2.25	1.73	.79		183,48			
25	1	420	19	24,5	68	82	27,8	57,2	44	18	3/4 (12)	M12	7/16-14 UNC	BAS-603-N12-W1	
		6090	.75	.96	2.68	3.23	1.09	2.25	1.73	.71		89,0			
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4	M12	1/2-13 UNC	BAS-604-N-W1	
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		120,3			
32	1-1/4	420	31	27,5	79	95	31,6	66,6	44	22	1-1/4 (20)	M14		BAS-604-N-M14-W1	
		6090	1.22	1.08	3.11	3.74	1.24	2.62	1.73	.87		121,1			
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1 (16)	M12	1/2-13 UNC	BAS-604-N16-W1	
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		118,0			
32	1-1/4	420	25	27,5	79	95	31,6	66,6	44	20	1 (16)	M14		BAS-604-N16-M14-W1	
		6090	.98	1.08	3.11	3.74	1.24	2.62	1.73	.79		259,60			
38	1-1/2	420	38	31,0	88	108	36,5	79,3	51	24	1-1/2	M16	5/8-11 UNC	BAS-605-N-W1	
		6090	1.50	1.22	3.46	4.25	1.44	3.12	2.01	.94		125,6			
38	1-1/2	420	31	31,0	88	108	36,5	79,3	51	22	1-1/4 (20)	M16	5/8-11 UNC	BAS-605-N20-W1	
		6090	1.22	1.22	3.46	4.25	1.44	3.12	2.01	.87		200,9			
51	2	420	50	37,0	118	137	44,5	96,8	58	33	2	M20	3/4-10 UNC	BAS-606-N-W1	
		6090	1.97	1.46	4.65	5.39	1.75	3.81	2.28	1.30		441,98			

<sup>1</sup> 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.

### Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-N-W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes **BAS-...-N-W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-N-M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-N-U-W1**
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 NPT) **BAS-...-N20-W1**

SAE Single-Part Flange with Female UN/UNF Thread  
Type BFX-U • 3000 / 6000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight ( <sup>kg</sup> /lbs) ca. per 100	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	D	F	G	H	I	L		M	T (UN/UNF)		ØK <sup>3</sup>
13	1/2	350	13	16	47	57	17,5	38,1	36	14,3	3/4-16 (08)	8,7	29,9	M8x30	5/16-18 UNC x 1-1/4	BFX-301-U08-W1
		5075	.51	.63	1.85	2.24	.69	1.50	1.42	.56		.34	65.78			
19	3/4	350	19	18	50	67	22,3	47,6	36	16,7	7/8-14 (10)	10,5	38,1	M10x35	3/8-16 UNC x 1-1/2	BFX-302-U10-W1
		5075	.75	.71	1.97	2.64	.88	1.87	1.42	.66		.41	83.82			
19	3/4	350	19	18	50	67	22,3	47,6	36	16,7	1-1/16-12 (12)	10,5	38,1	M10x35	3/8-16 UNC x 1-1/2	BFX-302-U12-W1
		5075	.75	.71	1.97	2.64	.88	1.87	1.42	.66		.41	83.82			
25	1	345	25	18	54	72	26,2	52,4	38	19	1-1/16-12 (12)	10,5	50,9	M10x35	3/8-16 UNC x 1-1/2	BFX-303-U12-W1
		5003	.98	.71	2.13	2.83	1.03	2.06	1.50	.75		.41	111.98			
25	1	345	25	18	54	72	26,2	52,4	38	19	1-5/16-12 (16)	10,5	47,0	M10x35	3/8-16 UNC x 1-1/2	BFX-303-U16-W1
		5003	.98	.71	2.13	2.83	1.03	2.06	1.50	.75		.41	103.40			
32	1-1/4	280	31	21	68	82	30,2	58,7	41	19	1-5/16-12 (16)	11,5 (13,5)	75,2	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-U16-W1
		4061	1.22	.83	2.68	3.23	1.19	2.31	1.61	.75		.45 (.53)	165.44			
32	1-1/4	280	31	21	68	82	30,2	58,7	41	19	1-5/8-12 (20)	11,5 (13,5)	64,5	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-U20-W1
		4061	1.22	.83	2.68	3.23	1.19	2.31	1.61	.75		.45 (.53)	141.90			
38	1-1/2	210	38	25	79	96	35,7	69,9	44	19	1-5/8-12 (20)	13,5 (14,5)	115,1	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-U20-W1
		3045	1.50	.98	3.11	3.78	1.41	2.75	1.73	.75		.53 (.57)	253.22			
38	1-1/2	210	38	25	79	96	35,7	69,9	44	19	1-7/8-12 (24)	13,5 (14,5)	107,9	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-U24-W1
		3045	1.50	.98	3.11	3.78	1.41	2.75	1.73	.75		.53 (.57)	237.38			

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

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight ( <sup>kg</sup> /lbs) ca. per 100	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	D	F	G	H	I	L		M	T (UN/UNF)		ØK <sup>3</sup>
13	1/2	400	13	16,5	47	57	18,2	40,5	36	14,3	3/4-16 (08)	8,7	29,9	M8x30	5/16-18 UNC x 1-1/4	BFX-601-U08-W1
		5800	.51	.65	1.85	2.24	.72	1.59	1.42	.56		.34	65.78			
19	3/4	400	19	19,5	54	72	23,8	50,8	36	16,7	7/8-14 (10)	10,5	48,3	M10x35	3/8-16 UNC x 1-1/2	BFX-602-U10-W1
		5800	.75	.77	2.13	2.83	.94	2.00	1.42	.66		.41	106.26			
19	3/4	400	19	19,5	54	72	23,8	50,8	36	16,7	1-1/16-12 (12)	10,5	48,3	M10x35	3/8-16 UNC x 1-1/2	BFX-602-U12-W1
		5800	.75	.77	2.13	2.83	.94	2.00	1.42	.66		.41	106.26			
25	1	400	25	24,5	68	82	27,8	57,1	44	19	1-1/16-12 (12)	13	84,0	M12x45	7/16-14 UNC x 1-3/4	BFX-603-U12-W1 <sup>2</sup>
		5800	.98	.96	2.68	3.23	1.09	2.25	1.73	.75		.51	184.80			
25	1	400	25	24,5	68	82	27,8	57,1	44	19	1-5/16-12 (16)	13	83,4	M12x45	7/16-14 UNC x 1-3/4	BFX-603-U16-W1 <sup>2</sup>
		5800	.98	.96	2.68	3.23	1.09	2.25	1.73	.75		.51	183.48			
32	1-1/4	400	31	27,5	79	95	31,6	66,7	44	19	1-5/16-12 (16)	13,5	125,7	M12x45	1/2-13 UNC x 1-3/4	BFX-604-U16-W1
		5800	1.22	1.08	3.11	3.74	1.24	2.63	1.73	.75		.53	276.54			
32	1-1/4	400	31	27,5	79	95	31,6	66,7	44	19	1-5/16-12 (16)	15	125,7	M14x45	/	BFX-604-U16-M14-W1
		5800	1.22	1.08	3.11	3.74	1.24	2.63	1.73	.75		.59	276.54			
32	1-1/4	400	31	27,5	79	95	31,6	66,7	44	19	1-5/8-12 (20)	13,5	125,7	M12x45	1/2-13 UNC x 1-3/4	BFX-604-U20-W1
		5800	1.22	1.08	3.11	3.74	1.24	2.63	1.73	.75		.53	276.54			
32	1-1/4	400	31	27,5	79	95	31,6	66,7	44	19	1-5/8-12 (20)	15	116,0	M14x45	/	BFX-604-U20-M14-W1
		5800	1.22	1.08	3.11	3.74	1.24	2.63	1.73	.75		.59	255.20			
38	1-1/2	400	38	31	88	108	36,5	79,4	51	19	1-5/8-12 (20)	17	221,5	M16x55	5/8-11 UNC x 2-1/4	BFX-605-U20-W1
		5800	1.50	1.22	3.46	4.25	1.44	3.13	2.01	.75		.67	487.30			
38	1-1/2	400	38	31	88	108	36,5	79,4	51	19	1-7/8-12 (24)	17	169,9	M16x55	5/8-11 UNC x 2-1/4	BFX-605-U24-W1
		5800	1.50	1.22	3.46	4.25	1.44	3.13	2.01	.75		.67	373.78			

Please see Page 89 for separate Bolt Sets and Sealings.

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)

BFX-...-U\*\*-W1  
BFX-...-U\*\*-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®)

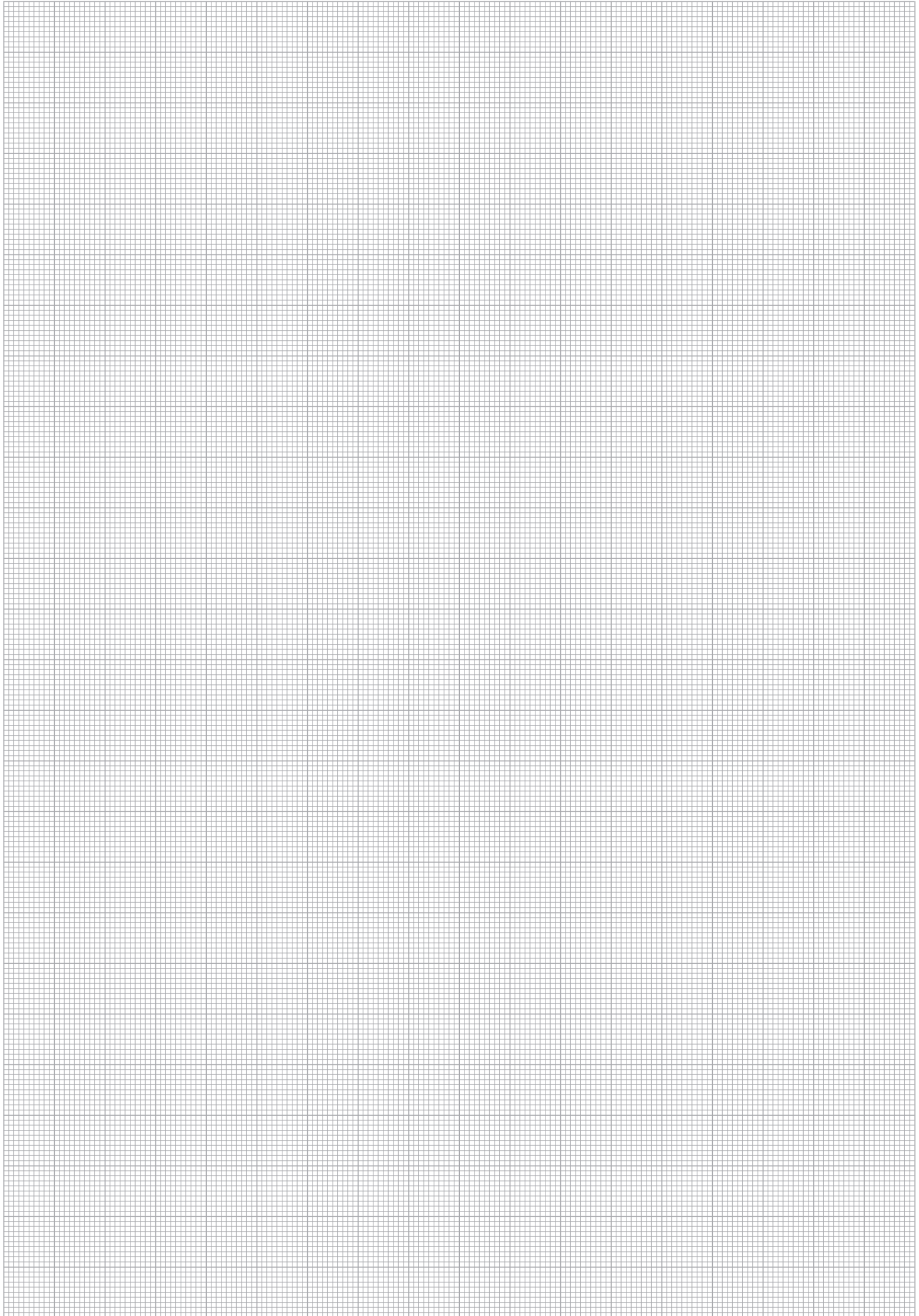
BFX-...-U\*\*-W1-K  
BFX-...-U\*\*-V-W1-K  
BFX-...-U\*\*-U-W1-K

Please always indicate Thread Size.

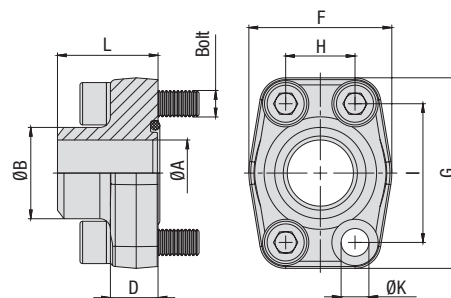
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

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

<sup>3</sup> Alternative options shown in brackets are available on request.



**SAE Single-Part Butt-Weld Flange for High Pressure Tubes (Schedule 80/160/XXS)  
Type BFX-ST • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes
		DN	(in)	10.9	ØA	ØB	D	F	G	H	I		L	ØK <sup>3</sup>	
13	1/2	350	13	21,6	16	47	57	17,5	38,1	36	8,7	26,0	M8x30	5/16-18 UNC x 1-1/4	BFX-301-ST-21.6/13-W1
		5075	.51	.85	.63	1.85	2.24	.69	1.50	1.42	.34	57.20			
13	1/2	350	13	17,5	16	47	57	17,5	38,1	36	8,7	24,2	M8x30	5/16-18 UNC x 1-1/4	BFX-301-ST-17.5/13-W1
		5075	.51	.69	.63	1.85	2.24	.69	1.50	1.42	.34	53.24			
19	3/4	350	19	27,2	18	50	67	22,3	47,6	36	10,5	35,2	M10x35	3/8-16 UNC x 1-1/2	BFX-302-ST-28/19-W1
		5075	.75	1.07	.71	1.97	2.64	.88	1.87	1.42	.41	77.44			
25	1	345	25	34	18	54	72	26,2	52,4	38	10,5	40,8	M10x35	3/8-16 UNC x 1-1/2	BFX-303-ST-34/25-W1
		5003	.98	1.34	.71	2.13	2.83	1.03	2.06	1.50	.41	89.76			
32	1-1/4	280	32	42,8	21	68	82	30,2	58,7	41	11,5 (13,5)	71,3	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-ST-42.8/32-W1
		4061	1.26	1.69	.83	2.68	3.23	1.19	2.31	1.61	.45 (.53)	156.86			
38	1-1/2	210	38	48,6	25	79	96	35,7	69,9	44	13,5 (14,5)	97,3	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-ST-48.6/38-W1
		3045	1.50	1.91	.98	3.11	3.78	1.41	2.75	1.73	.53 (.57)	214.06			
51	2	210	51	61	25,5	88	102	42,9	77,8	45	13,5 (14,5)	115,1	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-ST-61/51-W1
		3045	2.01	2.40	1.00	3.46	4.02	1.69	3.06	1.77	.53 (.57)	253.22			
64	2-1/2	175	63	77	26	101	115	50,8	88,9	50	13,5 (14,5)	153,2	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-ST-77/63-W1
		2538	2.48	3.03	1.02	3.98	4.53	2.00	3.50	1.97	.53 (.57)	337.04			
76	3	160	73	92	27,5	127	137	61,9	106,4	50	17	229,0	M16x50	5/8-11 UNC x 2	BFX-308-ST-92/73-W1
		2320	2.87	3.62	1.08	5.00	5.39	2.44	4.19	1.97	.67	503.80			
89	3-1/2	35	89	103	27,5	138	155	69,9	120,7	50	17	259,1	M16x50	5/8-11 UNC x 2	BFX-309-ST-103/89-W1
		508	3.50	4.06	1.08	5.43	6.10	2.75	4.75	1.97	.67	570.02			
102	4	35	99	115,5	27,5	147	163	77,8	130,2	50	17	286,5	M16x50	5/8-11 UNC x 2	BFX-310-ST-115.5/99-W1
		508	3.90	4.55	1.08	5.79	6.42	3.06	5.13	1.97	.67	630.30			
127	5	35	120	140,2	28	180	184	92	152,4	50	17	398,6	M16x55	5/8-11 UNC x 2-1/4	BFX-311-ST-140.2/120-W1
		508	4.72	5.52	1.10	7.09	7.24	3.62	6.00	1.97	.67	876.92			

Please see Page 89 for separate Bolt Sets and Sealings.

**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)

**BFX-...-ST-\*\*-\*\*/\*\*-W1**  
**BFX-...-ST-\*\*-\*\*/\*\*-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®)

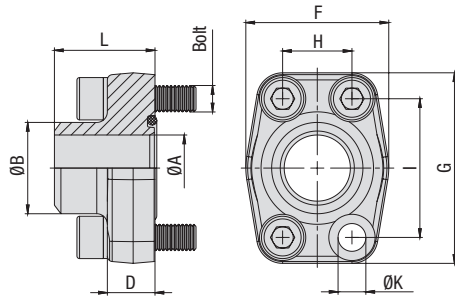
**BFX-...-ST-\*\*-\*\*/\*\*-W1-K**  
**BFX-...-ST-\*\*-\*\*/\*\*-V-W1-K**  
**BFX-...-ST-\*\*-\*\*/\*\*-U-W1-K**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

## SAE Single-Part Butt-Weld Flange for High Pressure Tubes (Schedule 80/160/XXS) Type BFX-ST • 6000 PSI Series



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

Nominal Size		PN <sup>1</sup>	Dimensions										Weight	for Bolts		Ordering Codes
DN	(in)	(bar/PSI)	(mm/in)	ØA	ØB	D	F	G	H	I	L	ØK	(kg/lbs) ca.	Metric	UNC	
13	1/2	420	13	21,6	16,5	47	57	18,2	40,5	36	8,7	33,3	M8x30	5/16-18 UNC x 1-1/4	BFX-601-ST-21.6/13-W1	
		6090	.51	.85	.65	1.85	2.24	.72	1.59	1.42	.34	73.26				
13	1/2	420	13	17,5	16,5	47	57	18,2	40,5	36	8,7	24,2	M8x30	5/16-18 UNC x 1-1/4	BFX-601-ST-17.5/13-W1	
		6090	.51	.69	.65	1.85	2.24	.72	1.59	1.42	.34	53.24				
19	3/4	420	19	28	19,5	54	72	23,8	50,8	36	10,5	49,4	M10x35	3/8-16 UNC x 1-1/2	BFX-602-ST-28/19-W1	
		6090	.75	1.10	.77	2.13	2.83	.94	2.00	1.42	.41	108.68				
25	1	420	25	34	24,5	68	82	27,8	57,2	41	13	64,1	M12x45	7/16-14 UNC x 1-3/4	BFX-603-ST-34/25-W1 <sup>2</sup>	
		6090	.98	1.34	.98	2.68	3.23	1.09	2.25	1.61	.51	141.02				
32	1-1/4	420	32	42,8	25	79	95	31,8	66,6	44	13,5	101,3	M12x45	1/2-13 UNC x 1-3/4	BFX-604-ST-42.8/32-W1	
		6090	1.26	1.69	.98	3.11	3.74	1.25	2.62	1.73	.53	222.86				
32	1-1/4	420	32	42,8	25	79	95	31,8	66,6	44	15	98,1	M14x45		BFX-604-ST-42.8/32-M14-W1	
		6090	1.26	1.69	.98	3.11	3.74	1.25	2.62	1.73	.59	215.82				
32	1-1/4	420	29	42,8	25	79	95	31,8	66,6	44	13,5	112,8	M12x45	1/2-13 UNC x 1-3/4	BFX-604-ST-42.8/29-W1 (SCH 160)	
		6090	1.14	1.69	.98	3.11	3.74	1.25	2.62	1.73	.53	248.16				
32	1-1/4	420	29	42,8	25	79	95	31,8	66,6	44	15	100,8	M14x45		BFX-604-ST-42.8/29-M14-W1	
		6090	1.14	1.69	.98	3.11	3.74	1.25	2.62	1.73	.59	221.76				
38	1-1/2	420	38	48,6	31	88	108	36,5	79,3	56	17	168,2	M16x55	5/8-11 UNC x 2-1/4	BFX-605-ST-48.6/38-W1	
		6090	1.50	1.91	1.22	3.46	4.25	1.44	3.12	2.20	.67	370.04				
38	1-1/2	420	32	48,6	31	88	108	36,5	79,3	56	17	170,9	M16x55	5/8-11 UNC x 2-1/4	BFX-605-ST-48.6/32-W1 (SCH 160)	
		6090	1.26	1.91	1.22	3.46	4.25	1.44	3.12	2.20	.67	375.98				
51	2	420	51	61	37	118	137	44,5	96,8	65	21	284,5	M20x70	3/4-10 UNC x 2-3/4	BFX-606-ST-61/51-W1	
		6090	2.01	2.40	1.46	4.65	5.39	1.75	3.81	2.56	.83	625.90				
51	2	420	43	61	37	118	137	44,5	96,8	65	21	316,4	M20x70	3/4-10 UNC x 2-3/4	BFX-606-ST-61/43-W1 (SCH 160)	
		6090	1.69	2.40	1.46	4.65	5.39	1.75	3.81	2.56	.83	696.08				
64	2-1/2	420	51	76,1	45	150	180	58,7	123,8	80	26	727,7	M24x80		BFX-607-ST-76.1/51-W1	
		6090	2.01	3.00	1.77	5.91	7.09	2.31	4.87	3.15	1.02	1600.94				
64	2-1/2	420	60	90	45	152	180	58,7	123,8	80	26	730,0	M24x80		BFX-607-ST-90/60-W1 (SCH XXS)	
		6090	2.36	3.54	1.77	5.98	7.09	2.31	4.87	3.15	1.02	1606.00				
76	3	420	90	67,7	55	178	208	71,4	152,4	90	33	1305,0	M30x100		BFX-608-ST-90/67-W1 (SCH 160)	
		6090	3.54	2.67	2.17	7.00	8.19	2.81	6.00	3.54	1.30	2871.00				
76	3	420	90	58,4	55	178	208	71,4	152,4	90	33	1305,0	M30x100		BFX-608-ST-90/58-W1 (SCH XXS)	
		6090	3.54	2.30	2.17	7.00	8.19	2.81	6.00	3.54	1.30	2871.00				

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

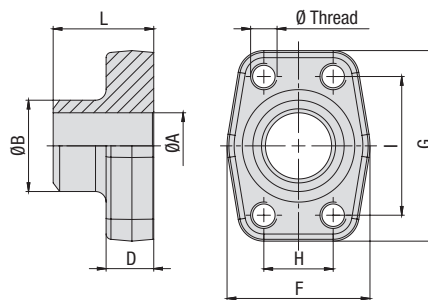
<sup>2</sup> For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

### Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) BFX-...-ST-\*/\*\*/\*\*\*-W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX-...-ST-\*/\*\*/\*\*\*-W5
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-ST-\*/\*\*/\*\*\*-W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-ST-\*/\*\*/\*\*\*-V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX-...-ST-\*/\*\*/\*\*\*-U-W1-K

Please always indicate ØB / ØA.

**SAE Single-Part Butt-Weld Counterflange for High Pressure Tubes (Schedule 80/160/XXS)**  
**Type BAS-ST • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) ca. per 100	Ø Thread		Ordering Codes
		DN	(in)	10.9	ØA	ØB	D	F	G	H		I	L	
13	1/2	350	13	21,6	16	47	57	17,5	38,1	36	26,3	M8	5/16-18 UNC	BAS-301-ST-21.6/13-W1
		5075	.51	.85	.63	1.85	2.24	.69	1.50	1.42	57.86			
13	1/2	350	13	17,5	16	47	57	17,5	38,1	36	25,8	M8	5/16-18 UNC	BAS-301-ST-17.5/13-W1
		5075	.51	.69	.63	1.85	2.24	.69	1.50	1.42	56.76			
19	3/4	350	19	28	18	50	67	22,3	47,6	36	36,6	M10	3/8-16 UNC	BAS-302-ST-28/19-W1
		5075	.75	1.10	.71	1.97	2.64	.88	1.87	1.42	80.52			
25	1	345	25	34	18	54	72	26,2	52,4	38	43,1	M10 (M12)	3/8-14 UNC	BAS-303-ST-34/25-W1
		5003	.98	1.34	.71	2.13	2.83	1.03	2.06	1.50	94.82			
32	1-1/4	280	32	42,8	21	68	82	30,2	58,7	41	67,5	M10 (M12)	3/8-14 UNC	BAS-304-ST-42.8/32-W1
		4061	1.26	1.69	.83	2.68	3.23	1.19	2.31	1.61	148.50			
38	1-1/2	210	38	48,6	25	79	96	35,7	69,9	44	103,4	M12 (M14)	1/2-13 UNC	BAS-305-ST-48.6/38-W1
		3045	1.50	1.91	.98	3.11	3.78	1.41	2.75	1.73	227.48			
51	2	210	51	61	25,5	88	102	42,9	77,8	45	122,7	M12 (M14)	1/2-13 UNC	BAS-306-ST-61/51-W1
		3045	2.01	2.40	1.00	3.46	4.02	1.69	3.06	1.77	269.94			
64	2-1/2	175	63	77	26	101	115	50,8	88,9	50	155,8	M12 (M14)	1/2-13 UNC	BAS-307-ST-77/63-W1
		2538	2.48	3.03	1.02	3.98	4.53	2.00	3.50	1.97	342.76			
76	3	160	73	92	27,5	127	137	61,9	106,4	50	236,0	M16	5/8-11 UNC	BAS-308-ST-92/73-W1
		2320	2.87	3.62	1.08	5.00	5.39	2.44	4.19	1.97	519.20			
89	3-1/2	35	89	103	27,5	138	155	69,9	120,7	50	267,3	M16	5/8-11 UNC	BAS-309-ST-103/89-W1
		508	3.50	4.06	1.08	5.43	6.10	2.75	4.75	1.97	588.06			
102	4	35	99	115,5	27,5	147	163	77,8	130,2	50	291,3	M16	5/8-11 UNC	BAS-310-ST-115.5/99-W1
		508	3.90	4.55	1.08	5.79	6.42	3.06	5.13	1.97	640.86			
127	5	35	120	140,2	28	180	184	92	152,4	50	416,1	M16	5/8-11 UNC	BAS-311-ST-140.2/120-W1
		508	4.72	5.52	1.10	7.09	7.24	3.62	6.00	1.97	915.42			

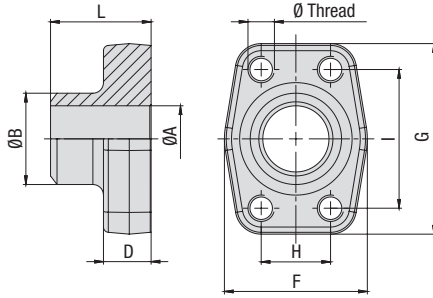
**Materials / Ordering Options / Examples**

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-ST-\*\*-\*\*/W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes **BAS-...-ST-\*\*-\*\*/W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-ST-\*\*-\*\*/M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-ST-\*\*-\*\*/U-W1**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Butt-Weld Counterflange for High Pressure Tubes (Schedule 80/160/XXS)  
 Type BAS-ST • 6000 PSI Series


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

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)							Weight (kg/lbs) ca. per 100	Ø Thread		Ordering Codes
				ØA	ØB	D	F	G	H	I		L	Metric	
13	1/2	420	13	21,6	16,5	47	57	18,2	40,5	36	27,8	M8	5/16-18 UNC	BAS-601-ST-21.6/13-W1
		6090	.51	.85	.65	1.85	2.24	.72	1.59	1.42	61.16			26,1
13	1/2	420	13	17,5	16,5	47	57	18,2	40,5	36	26,1	M8	5/16-18 UNC	BAS-601-ST-17.5/13-W1
		6090	.51	.69	.65	1.85	2.24	.72	1.59	1.42	57.42			
19	3/4	420	19	28	19,5	54	72	23,8	50,8	36	49,0	M10	3/8-16 UNC	BAS-602-ST-28/19-W1
		6090	.75	1.10	.77	2.13	2.83	.94	2.00	1.42	107.80			
25	1	420	25	34	24,5	68	82	27,8	57,2	41	67,5	M12	7/16-14 UNC	BAS-603-ST-34/25-W1
		6090	.98	1.34	.96	2.68	3.23	1.09	2.25	1.61	148.50			
32	1-1/4	420	32	42,8	25	79	95	31,8	66,6	44	106,3	M12	1/2-13 UNC	BAS-604-ST-42.8/32-W1
		6090	1.26	1.69	.98	3.11	3.74	1.25	2.62	1.73	233.86			
32	1-1/4	420	32	42,8	25	79	95	31,8	66,6	44	103,2	M14	1/2-13 UNC	BAS-604-ST-42.8/32-M14-W1
		6090	1.26	1.69	.98	3.11	3.74	1.25	2.62	1.73	227.04			
32	1-1/4	420	29	42,8	25	79	95	31,8	66,6	44	101,0	M12	1/2-13 UNC	BAS-604-ST-42.8/29-W1 (SCH 160)
		6090	1.14	1.69	.98	3.11	3.74	1.25	2.62	1.73	222.20			
32	1-1/4	420	29	42,8	25	79	95	31,8	66,6	44	113,3	M14	1/2-13 UNC	BAS-604-ST-42.8/29-M14-W1
		6090	1.14	1.69	.98	3.11	3.74	1.25	2.62	1.73	249.26			
38	1-1/2	420	38	48,3	31	88	108	36,5	79,3	56	182,4	M16	5/8-11 UNC	BAS-605-ST-48.6/38-W1
		6090	1.50	1.90	1.22	3.46	4.25	1.44	3.12	2.20	401.28			
38	1-1/2	420	32	48,3	31	88	108	36,5	79,3	56	180,0	M16	5/8-11 UNC	BAS-605-ST-48.6/32-W1 (SCH 160)
		6090	1.26	1.90	1.22	3.46	4.25	1.44	3.12	2.20	396.00			
51	2	420	51	61	37	118	137	44,5	96,8	65	287,3	M20	3/4-10 UNC	BAS-606-ST-61/51-W1
		6090	2.01	2.40	1.46	4.65	5.39	1.75	3.81	2.56	632.06			
51	2	420	43	61	37	118	137	44,5	96,8	65	326,6	M20	3/4-10 UNC	BAS-606-ST-61/43-W1 (SCH 160)
		6090	1.69	2.40	1.46	4.65	5.39	1.75	3.81	2.56	718.52			
64	2-1/2	420	51	76,1	45	150	180	58,7	123,8	80	728,0	M24	1-1/2-10 UNC	BAS-607-ST-76.1/51-W1
		6090	2.01	3.00	1.77	5.91	7.09	2.31	4.87	3.15	1601.60			
64	2-1/2	420	60,5	90	45	152	180	58,7	123,8	80	751,5	M24	1-1/2-10 UNC	BAS-607-ST-90/60.5-W1 (SCH XXS)
		6090	2.38	3.54	1.77	5.98	7.09	2.31	4.87	3.15	1653.30			
76	3	420	67	90	55	178	208	71,4	152,4	90	1305,0	M30	1-3/4-10 UNC	BAS-608-ST-90/67-W1 (SCH 160)
		6090	2.64	3.54	2.17	7.00	8.19	2.81	6.00	3.54	2871.00			
76	3	420	58	90	55	178	208	71,4	152,4	90	1305,0	M30	1-3/4-10 UNC	BAS-608-ST-90/58-W1 (SCH XXS)
		6090	2.28	3.54	2.17	7.00	8.19	2.81	6.00	3.54	2871.00			

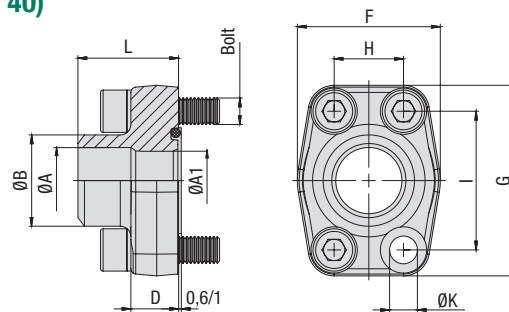
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

## Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes BAS-...-ST-\*/\*\*-W1
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes BAS-...-ST-\*/\*\*-W5
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) BAS-...-ST-\*/\*\*-M14-W1
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes BAS-...-ST-\*/\*\*-U-W1

Please always indicate ØB / ØA.

**SAE Single-Part Butt-Weld Flange for Low Pressure Tubes (Schedule 40)  
Type BFX-STRE • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight ( <sup>kg</sup> /lbs) ca.	for Bolts		Ordering Codes
		DN	(in)	10.9	ØA	ØA1	ØB	D	F	G	H	I		L	ØK <sup>3</sup>	
13	1/2	350	16	13	22	16	47	57	17,5	38,1	36	8,7	25,6	M8x30	5/16-18 UNC x 1-1/4	BFX-301-STRE-22/16-W1
		5075	.63	.51	.87	.63	1.85	2.24	.69	1.50	1.42	.34	56.32			
19	3/4	350	21,5	19	28	18	50	67	22,3	47,6	36	10,5	34,0	M10x35	3/8-16 UNC x 1-1/2	BFX-302-STRE-28/21.5-W1
		5075	.85	.75	1.10	.71	1.97	2.64	.88	1.87	1.42	.41	74.80			
25	1	345	27	25	35	18	54	72	26,2	52,4	38	10,5	40,0	M10x35	3/8-16 UNC x 1-1/2	BFX-303-STRE-35/27-W1
		5003	1.06	.98	1.38	.71	2.13	2.83	1.03	2.06	1.50	.41	88.00			
32	1-1/4	280	36	31	43	21	68	82	30,2	58,7	41	11,5 (13,5)	61,7	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-STRE-43/36-W1
		4061	1.42	1.22	1.69	.83	2.68	3.23	1.19	2.31	1.61	.45 (.53)	135.74			
38	1-1/2	210	42	38	49	25	79	96	35,7	69,9	44	13,5 (14,5)	92,8	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-STRE-49/42-W1
		3045	1.65	1.50	1.93	.98	3.11	3.78	1.41	2.75	1.73	.53 (.57)	204.16			
51	2	210	42	42	49	25,5	88	102	42,9	77,8	45	13,5 (14,5)	116,4	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-STRE-49/42-W1
		3045	1.65	1.65	1.93	1.00	3.46	4.02	1.69	3.06	1.77	.53 (.57)	256.08			
51	2	210	53	49	61	25,5	88	102	42,9	77,8	45	13,5 (14,5)	115,8	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-STRE-61/53-W1
		3045	2.09	1.93	2.40	1.00	3.46	4.02	1.69	3.06	1.77	.53 (.57)	254.76			
64	2-1/2	175	53	53	61	26	101	115	50,8	88,9	50	13,5 (14,5)	148,3	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-STRE-61/53-W1
		2538	2.09	2.09	2.40	1.02	3.98	4.53	2.00	3.50	1.97	.53 (.57)	326.26			
64	2-1/2	175	70	62	77	26	101	115	50,8	88,9	50	13,5 (14,5)	143,2	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-STRE-77/70-W1
		2538	2.76	2.44	3.03	1.02	3.98	4.53	2.00	3.50	1.97	.53 (.57)	315.04			
76	3	160	82	74	90	27,5	127	137	61,9	106,4	50	17	200,0	M16x50	5/8-11 UNC x 2	BFX-308-STRE-90/82-W1
		2320	3.23	2.91	3.54	1.08	5.00	5.39	2.44	4.19	1.97	.67	440.00			
89	3-1/2	35	82	82	90	27,5	138	155	69,9	120,7	50	17	244,0	M16x50	5/8-11 UNC x 2	BFX-309-STRE-90/82-W1
		508	3.23	3.23	3.54	1.08	5.43	6.10	2.75	4.75	1.97	.67	536.80			
89	3-1/2	35	70	70	77	27,5	138	155	69,9	120,7	50	17	243,6	M16x50	5/8-11 UNC x 2	BFX-309-STRE-77/70-W1
		508	2.76	2.76	3.03	1.08	5.43	6.10	2.75	4.75	1.97	.67	535.92			
102	4	35	82	82	90	27,5	147	163	77,8	130,2	50	17	283,1	M16x50	5/8-11 UNC x 2	BFX-310-STRE-90/82-W1
		508	3.23	3.23	3.54	1.08	5.79	6.42	3.06	5.13	1.97	.67	622.82			
102	4	35	107	102	115	27,5	147	163	77,8	130,2	50	17	254,3	M16x50	5/8-11 UNC x 2	BFX-310-STRE-115/107-W1
		508	4.21	4.02	4.53	1.08	5.79	6.42	3.06	5.13	1.97	.67	559.46			
127	5	35	131	120	140,2	28	180	184	92	152,4	50	17	381,9	M16x55	5/8-11 UNC x 2-1/4	BFX-311-STRE-140/131-W1
		508	5.16	4.72	5.52	1.10	7.09	7.24	3.62	6.00	1.97	.67	840.18			

Please see Page 89 for separate Bolt Sets and Sealings.

**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)

**BFX-...-STRE-\*\*-\*\*/\*\*-W1**  
**BFX-...-STRE-\*\*-\*\*/\*\*-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®)

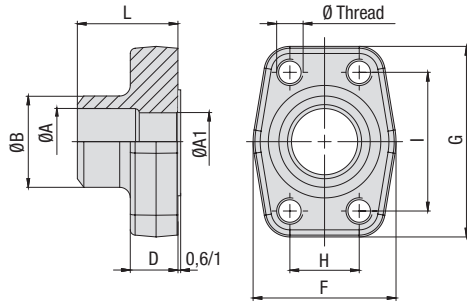
**BFX-...-STRE-\*\*-\*\*/\*\*-W1-K**  
**BFX-...-STRE-\*\*-\*\*/\*\*-V-W1-K**  
**BFX-...-STRE-\*\*-\*\*/\*\*-U-W1-K**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

### SAE Single-Part Butt-Weld Counterflange for Low Pressure Tubes (Schedule 40) Type BAS-STRE - 3000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes
DN	(in)	10.9	ØA	ØA1	ØB	D	F	G	H	I	L		Metric <sup>3</sup>	UNC	
13	1/2	350	16	13	22	16	47	57	17,5	38,1	36	26,7	M8	5/16-18 UNC	BAS-301-STRE-22/16-W1
		5075	.63	.51	.87	.63	1.85	2.24	.69	1.50	1.42	58.74			
19	3/4	350	21,5	19	28	18	50	67	22,3	47,6	36	36,3	M10	3/8-16 UNC	BAS-302-STRE-28/21.5-W1
		5075	.85	.75	1.10	.71	1.97	2.64	.88	1.87	1.42	79.86			
25	1	320	27	25	35	18	54	72	26,2	52,4	38	43,1	M10	3/8-16 UNC	BAS-303-STRE-35/27-W1
		4641	1.06	.98	1.38	.71	2.13	2.83	1.03	2.06	1.50	94.82			
32	1-1/4	280	36	31	43	21	68	82	30,2	58,7	41	65,3	M10 (M12)	7/16-14 UNC	BAS-304-STRE-43/36-W1
		4061	1.42	1.22	1.69	.83	2.68	3.23	1.19	2.31	1.61	143.66			
38	1-1/2	210	42	38	49	25	79	96	35,7	69,9	44	97,1	M12 (M14)	1/2-13 UNC	BAS-305-STRE-49/42-W1
		3045	1.65	1.50	1.93	.98	3.11	3.78	1.41	2.75	1.73	213.62			
51	2	210	42	42	49	25,5	88	102	42,9	77,8	45	0,0	M12 (M14)	1/2-13 UNC	BAS-306-STRE-49/42-W1
		3045	1.65	1.65	1.93	1.00	3.46	4.02	1.69	3.06	1.77	.00			
51	2	210	53	49	61	25,5	88	102	42,9	77,8	45	119,7	M12 (M14)	1/2-13 UNC	BAS-306-STRE-61/53-W1
		3045	2.09	1.93	2.40	1.00	3.46	4.02	1.69	3.06	1.77	263.34			
64	2-1/2	175	53	53	61	26	101	115	50,8	88,9	50	150,1	M12 (M14)	1/2-13 UNC	BAS-307-STRE-61/53-W1
		2538	2.09	2.09	2.40	1.02	3.98	4.53	2.00	3.50	1.97	330.22			
64	2-1/2	175	70	62	77	26	101	115	50,8	88,9	50	149,2	M12 (M14)	1/2-13 UNC	BAS-307-STRE-77/70-W1
		2538	2.76	2.44	3.03	1.02	3.98	4.53	2.00	3.50	1.97	328.24			
76	3	160	82	74	90	27,5	127	137	61,9	106,4	50	211,7	M16	5/8-11 UNC	BAS-308-STRE-90/82-W1
		2320	3.23	2.91	3.54	1.08	5.00	5.39	2.44	4.19	1.97	465.74			
89	3-1/2	35	82	82	90	27,5	138	155	69,9	120,7	50	255,1	M16	5/8-11 UNC	BAS-309-STRE-90/82-W1
		508	3.23	3.23	3.54	1.08	5.43	6.10	2.75	4.75	1.97	561.22			
89	3-1/2	35	70	70	77	27,5	138	155	69,9	120,7	50	268,9	M16	5/8-11 UNC	BAS-309-STRE-77/70-W1
		508	2.76	2.76	3.03	1.08	5.43	6.10	2.75	4.75	1.97	591.67			
102	4	35	82	82	90	27,5	147	163	77,8	130,2	50	289,2	M16	5/8-11 UNC	BAS-310-STRE-90/82-W1
		508	3.23	3.23	3.54	1.08	5.79	6.42	3.06	5.13	1.97	636.24			
102	4	35	107	102	115	27,5	147	163	77,8	130,2	50	257,4	M16	5/8-11 UNC	BAS-310-STRE-115/107-W1
		508	4.21	4.02	4.53	1.08	5.79	6.42	3.06	5.13	1.97	566.28			
127	5	35	131	120	140,2	28	180	184	92	152,4	50	383,2	M16	5/8-11 UNC	BAS-311-STRE-140/131-W1
		508	5.16	4.72	5.52	1.10	7.09	7.24	3.62	6.00	1.97	843.04			

<sup>1</sup> 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.

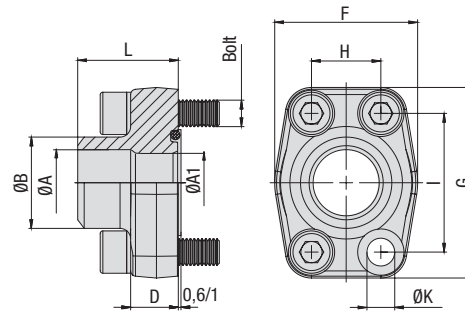
<sup>3</sup> Alternative options shown in brackets are available on request.

#### Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes BAS-...-STRE-\*/\*\*-W1
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes BAS-...-STRE-\*/\*\*-W5
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) BAS-...-STRE-\*/\*\*-M14-W1
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes BAS-...-STRE-\*/\*\*-U-W1

Please always indicate ØB / ØA.

**SAE Single-Part Butt-Weld Flange for Metric Tubes**  
**Type BFX-SRE • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight ( <sup>kg</sup> /lbs) ca.	for Bolts		Ordering Codes
				10.9	ØA	ØA1	ØB	D	F	G	H	I	L		ØK <sup>3</sup>	per 100	
13	1/2	350	14	14	20	16	47	57	17,5	38,1	36	8,7	24,4	M8x30	5/16-18 UNC x 1-1/4	BFX-301-SRE-20/14-W1	
		5075	.55	.55	.79	.63	1.85	2.24	.69	1.50	1.42	.34	53.68				
13	1/2	350	16	13	22	16	47	57	17,5	38,1	36	8,7	24,9	M8x30	5/16-18 UNC x 1-1/4	BFX-301-SRE-22/16-W1	
		5075	.63	.51	.87	.63	1.85	2.24	.69	1.50	1.42	.34	54.78				
19	3/4	350	19	19	25	18	50	67	22,3	47,6	36	10,5	32,4	M10x35	3/8-16 UNC x 1-1/2	BFX-302-SRE-25/19-W1	
		5075	.75	.75	.98	.71	1.97	2.64	.88	1.87	1.42	.41	71.28				
19	3/4	350	21,5	19	28	18	50	67	22,3	47,6	36	10,5	33,9	M10x35	3/8-16 UNC x 1-1/2	BFX-302-SRE-28/21.5-W1	
		5075	.85	.75	1.10	.71	1.97	2.64	.88	1.87	1.42	.41	74.58				
25	1	345	22	22	30	18	54	72	26,2	52,4	38	10,5	41,0	M10x35	3/8-16 UNC x 1-1/2	BFX-303-SRE-30/22-W1	
		5003	.87	.87	1.18	.71	2.13	2.83	1.03	2.06	1.50	.41	90.20				
25	1	345	27	25	35	18	54	72	26,2	52,4	38	10,5	40,6	M10x35	3/8-16 UNC x 1-1/2	BFX-303-SRE-35/27-W1	
		5003	1.06	.98	1.38	.71	2.13	2.83	1.03	2.06	1.50	.41	89.32				
32	1-1/4	280	30	30	38	21	68	82	30,2	58,7	41	11,5 (13,5)	60,6	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-SRE-38/30-W1	
		4061	1.18	1.18	1.50	.83	2.68	3.23	1.19	2.31	1.61	.45 (.53)	133.32				
32	1-1/4	280	36	31	43	21	68	82	30,2	58,7	41	11,5 (13,5)	61,7	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-SRE-43/36-W1	
		4061	1.42	1.22	1.69	.83	2.68	3.23	1.19	2.31	1.61	.45 (.53)	135.74				
38	1-1/2	210	30	30	38	25	79	96	35,7	69,9	44	13,5 (14,5)	97,4	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-SRE-38/30-W1	
		3045	1.18	1.18	1.50	.98	3.11	3.78	1.41	2.75	1.73	.53 (.57)	214.28				
38	1-1/2	210	36	36	42	25	79	96	35,7	69,9	44	13,5 (14,5)	91,3	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-SRE-42/36-W1	
		3045	1.42	1.42	1.65	.98	3.11	3.78	1.41	2.75	1.73	.53 (.57)	200.86				
38	1-1/2	210	38	38	49	25	79	96	35,7	69,9	44	13,5 (14,5)	95,8	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-SRE-49/38-W1	
		3045	1.50	1.50	1.93	.98	3.11	3.78	1.41	2.75	1.73	.53 (.57)	210.76				
51	2	210	49	49	61	25,5	88	102	42,9	77,8	45	13,5 (14,5)	118,4	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-SRE-61/49-W1	
		3045	1.93	1.93	2.40	1.00	3.46	4.02	1.69	3.06	1.77	.53 (.57)	260.48				
64	2-1/2	175	62	62	77	26	101	115	50,8	88,9	50	13,5 (14,5)	152,1	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-SRE-77/62-W1	
		2538	2.44	2.44	3.03	1.02	3.98	4.53	2.00	3.50	1.97	.53 (.57)	334.62				
76	3	160	62	62	77	27,5	127	137	61,9	106,4	50	17	229,3	M16x50	5/8-11 UNC x 2	BFX-308-SRE-77/62-W1	
		2320	2.44	2.44	3.03	1.08	5.00	5.39	2.44	4.19	1.97	.67	504.66				

Please see Page 89 for separate Bolt Sets and Sealings.

**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)

**BFX-...-SRE-\*\*-\*\*/\*\*-W1**  
**BFX-...-SRE-\*\*-\*\*/\*\*-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®)

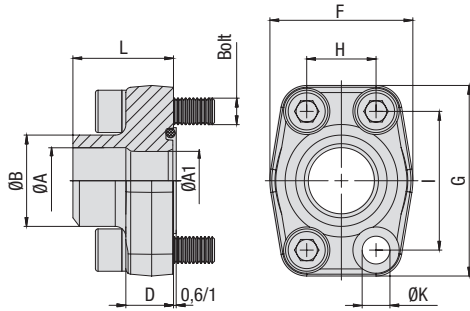
**BFX-...-SRE-\*\*-\*\*/\*\*-W1-K**  
**BFX-...-SRE-\*\*-\*\*/\*\*-V-W1-K**  
**BFX-...-SRE-\*\*-\*\*/\*\*-U-W1-K**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Butt-Weld Flange for Metric Tubes  
Type BFX-SRE - 6000 PSI Series



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

C

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) ca.	for Bolts		Ordering Codes
				10.9	ØA	ØA1	ØB	D	F	G	H	I	L		ØK	per 100	
13	1/2		420	14	14	20	16,5	47	57	18,2	40,5	36	8,7	24,0	M8x30	5/16-18 UNC x 1-1/4	BFX-601-SRE-20/14-W1
			6090	.55	.55	.79	.65	1.85	2.24	.72	1.59	1.42	.34	52.80			
19	3/4		420	14	14	20	19,5	54	72	23,8	50,8	36	10,5	48,7	M10x35	3/8-16 UNC x 1-1/2	BFX-602-SRE-20/14-W1
			6090	.55	.55	.79	.77	2.13	2.83	.94	2.00	1.42	.41	107.14			
19	3/4		420	17	17	25	19,5	54	72	23,8	50,8	36	10,5	48,8	M10x35	3/8-16 UNC x 1-1/2	BFX-602-SRE-25/17-W1
			6090	.67	.67	.98	.77	2.13	2.83	.94	2.00	1.42	.41	107.36			
25	1		420	17	17	25	24,5	68	82	27,8	57,2	44	13	72,7	M12x45	7/16-14 UNC x 1-3/4	BFX-603-SRE-25/17-W1 <sup>2</sup>
			6090	.67	.67	.98	.96	2.68	3.23	1.09	2.25	1.73	.51	159.94			
25	1		420	22	22	30	24,5	68	82	27,8	57,2	44	13	72,1	M12x45	7/16-14 UNC x 1-3/4	BFX-603-SRE-30/22-W1 <sup>2</sup>
			6090	.87	.87	1.18	.96	2.68	3.23	1.09	2.25	1.73	.51	158.62			
32	1-1/4		420	22	22	30	25	79	95	31,6	66,6	44	13,5	155,7	M12x45	1/2-13 UNC x 1-3/4	BFX-604-SRE-30/22-W1
			6090	.87	.87	1.18	.98	3.11	3.74	1.24	2.62	1.73	.53	342.54			
32	1-1/4		420	22	22	30	25	79	95	31,6	66,6	44	15	102,8	M14x45		BFX-604-SRE-30/22-M14-W1
			6090	.87	.87	1.18	.98	3.11	3.74	1.24	2.62	1.73	.59	226.16			
32	1-1/4		420	26	26	38	25	79	95	31,6	66,6	44	13,5	109,4	M12x45	1/2-13 UNC x 1-3/4	BFX-604-SRE-38/26-W1
			6090	1.02	1.02	1.50	.98	3.11	3.74	1.24	2.62	1.73	.53	240.68			
32	1-1/4		420	26	26	38	25	79	95	31,6	66,6	44	15	105,0	M14x45		BFX-604-SRE-38/26-M14-W1
			6090	1.02	1.02	1.50	.98	3.11	3.74	1.24	2.62	1.73	.59	231.00			
38	1-1/2		420	26	26	38	28	88	108	36,5	79,3	56	17	171,6	M16x55	5/8-11 UNC x 2-1/4	BFX-605-SRE-38/26-W1
			6090	1.02	1.02	1.50	1.10	3.46	4.25	1.44	3.12	2.20	.67	377.52			
38	1-1/2		420	32	32	49	28	88	108	36,5	79,3	56	17	173,7	M16x55	5/8-11 UNC x 2-1/4	BFX-605-SRE-49/32-W1
			6090	1.26	1.26	1.93	1.10	3.46	4.25	1.44	3.12	2.20	.67	382.14			
38	1-1/2		420	40	40	61	28	88	108	36,5	79,3	56	17	180,8	M16x55	5/8-11 UNC x 2-1/4	BFX-605-SRE-61/40-W1
			6090	1.57	1.57	2.40	1.10	3.46	4.25	1.44	3.12	2.20	.67	397.76			
51	2		420	40	40	61	37	118	137	44,5	96,8	65	21	317,3	M20x70	3/4-10 UNC x 2-3/4	BFX-606-SRE-61/40-W1
			6090	1.57	1.57	2.40	1.46	4.65	5.39	1.75	3.81	2.56	.83	698.06			
51	2		420	50	48	76	28	118	137	44,5	96,8	80	21	308,2	M20x55	3/4-10 UNC x 2-1/4	BFX-606-SRE-76/50-W1
			6090	1.97	1.89	2.99	1.10	4.65	5.39	1.75	3.81	3.15	.83	678.04			

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

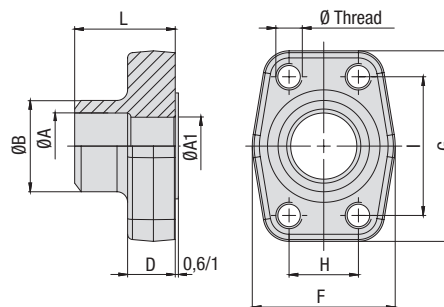
<sup>2</sup> For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) BFX-...-SRE-\*/\*\*/\*\*\*-W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A - 1.4404 (on request) BFX-...-SRE-\*/\*\*/\*\*\*-W5
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-SRE-\*/\*\*/\*\*\*-W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-SRE-\*/\*\*/\*\*\*-V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX-...-SRE-\*/\*\*/\*\*\*-U-W1-K

Please always indicate ØB / ØA.

**SAE Single-Part Butt-Weld Counterflange for Metric Tubes**  
**Type BAS-SRE • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) Ca. per 100	Ø Thread		Ordering Codes
				ØA	ØA1	ØB	D	F	G	H	I	L		Metric <sup>3</sup>	UNC	
13	1/2		350	14	14	20	16	47	57	17,5	38,1	36	26,1	M8	5/16-18 UNC	BAS-301-SRE-20/14-W1
			5075	.55	.55	.79	.63	1.85	2.24	.69	1.50	1.42	57.42			
13	1/2		350	16	13	22	16	47	57	17,5	38,1	36	26,7	M8	5/16-18 UNC	BAS-301-SRE-22/16-W1
			5075	.63	.51	.87	.63	1.85	2.24	.69	1.50	1.42	58.74			
19	3/4		350	19	19	25	18	50	67	22,3	47,6	36	34,5	M10	3/8-16 UNC	BAS-302-SRE-25/19-W1
			5075	.75	.75	.98	.71	1.97	2.64	.88	1.87	1.42	75.90			
19	3/4		350	21,5	19	28	18	50	67	22,3	47,6	36	35,9	M10	3/8-16 UNC	BAS-302-SRE-28/21.5-W1
			5075	.85	.75	1.10	.71	1.97	2.64	.88	1.87	1.42	78.98			
25	1		345	22	22	30	18	54	72	26,2	52,4	38	43,6	M10	3/8-16 UNC	BAS-303-SRE-30/22-W1
			5003	.87	.87	1.18	.71	2.13	2.83	1.03	2.06	1.50	95.92			
25	1		345	27	25	35	18	54	72	26,2	52,4	38	42,9	M10	3/8-16 UNC	BAS-303-SRE-35/27-W1
			5003	1.06	.98	1.38	.71	2.13	2.83	1.03	2.06	1.50	94.38			
32	1-1/4		280	30	30	38	21	68	82	30,2	58,7	41	63,9	M10 (M12)	7/16-14 UNC	BAS-304-SRE-38/30-W1
			4061	1.18	1.18	1.50	.83	2.68	3.23	1.19	2.31	1.61	140.58			
32	1-1/4		280	36	31	43	21	68	82	30,2	58,7	41	64,6	M10 (M12)	7/16-14 UNC	BAS-304-SRE-43/36-W1
			4061	1.42	1.22	1.69	.83	2.68	3.23	1.19	2.31	1.61	142.12			
38	1-1/2		210	30	30	38	25	79	96	35,7	69,9	44	101,9	M12 (M14)	1/2-13 UNC	BAS-305-SRE-38/30-W1
			3045	1.18	1.18	1.50	.98	3.11	3.78	1.41	2.75	1.73	224.18			
38	1-1/2		210	36	36	42	25	79	96	35,7	69,9	44	95,0	M12 (M14)	1/2-13 UNC	BAS-305-SRE-42/36-W1
			3045	1.42	1.42	1.65	.98	3.11	3.78	1.41	2.75	1.73	209.00			
38	1-1/2		210	38	38	49	25	79	96	35,7	69,9	44	101,6	M12 (M14)	1/2-13 UNC	BAS-305-SRE-49/38-W1
			3045	1.50	1.50	1.93	.98	3.11	3.78	1.41	2.75	1.73	223.52			
51	2		210	49	49	61	25,5	88	102	42,9	77,8	45	123,2	M12 (M14)	1/2-13 UNC	BAS-306-SRE-61/49-W1
			3045	1.93	1.93	2.40	1.00	3.46	4.02	1.69	3.06	1.77	271.04			
64	2-1/2		175	62	62	77	26	101	115	50,8	88,9	50	159,6	M12 (M14)	1/2-13 UNC	BAS-307-SRE-77/62-W1
			2538	2.44	2.44	3.03	1.02	3.98	4.53	2.00	3.50	1.97	351.12			
76	3		160	62	62	77	27,5	127	137	61,9	106,4	50	235,3	M16	5/8-11 UNC	BAS-308-SRE-77/62-W1
			2320	2.44	2.44	3.03	1.08	5.00	5.39	2.44	4.19	1.97	517.66			

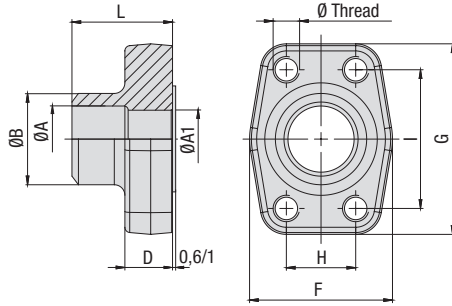
**Materials / Ordering Options / Examples**

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-SRE-\*\*/\*\*-W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes **BAS-...-SRE-\*\*/\*\*-W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-SRE-\*\*/\*\*-M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-SRE-\*\*/\*\*-U-W1**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Butt-Weld Counterflange for Metric Tubes  
 Type BAS-SRE - 6000 PSI Series


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

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) Ca. per 100	for Bolts		Ordering Codes
DN	(in)		10.9	ØA	ØA1	ØB	D	F	G	H	I	L		Metric	UNC	
13	1/2	420	14	14	20	16,5	47	57	18,2	40,5	36	25,6	M8	5/16-18 UNC	BAS-601-SRE-20/14-W1	
		6090	.55	.55	.79	.65	1.85	2.24	.72	1.59	1.42	56.32				
19	3/4	420	14	14	20	19,5	54	72	23,8	50,8	36	51,7	M10	3/8-16 UNC	BAS-602-SRE-20/14-W1	
		6090	.55	.55	.79	.77	2.13	2.83	.94	2.00	1.42	113.74				
19	3/4	420	17	17	25	19,5	54	72	23,8	50,8	36	51,3	M10	3/8-16 UNC	BAS-602-SRE-25/17-W1	
		6090	.67	.67	.98	.77	2.13	2.83	.94	2.00	1.42	112.86				
25	1	420	17	17	25	24,5	68	82	27,8	57,2	44	76,5	M12	7/16-14 UNC	BAS-603-SRE-25/17-W1	
		6090	.67	.67	.98	.96	2.68	3.23	1.09	2.25	1.73	168.30				
25	1	420	22	22	30	24,5	68	82	27,8	57,2	44	75,7	M12	7/16-14 UNC	BAS-603-SRE-30/22-W1	
		6090	.87	.87	1.18	.96	2.68	3.23	1.09	2.25	1.73	166.54				
32	1-1/4	420	22	22	30	25	79	95	31,6	66,6	44	103,0	M12	1/2-13 UNC	BAS-604-SRE-30/22-W1	
		6090	.87	.87	1.18	.98	3.11	3.74	1.24	2.62	1.73	226.60				
32	1-1/4	420	22	22	30	25	79	95	31,6	66,6	44	106,8	M14		BAS-604-SRE-30/22-M14-W1	
		6090	.87	.87	1.18	.98	3.11	3.74	1.24	2.62	1.73	234.96				
32	1-1/4	420	26	26	38	25	79	95	31,6	66,6	44	105,0	M12	1/2-13 UNC	BAS-604-SRE-38/26-W1	
		6090	1.02	1.02	1.50	.98	3.11	3.74	1.24	2.62	1.73	231.00				
32	1-1/4	420	26	26	38	25	79	95	31,6	66,6	44	110,2	M14		BAS-604-SRE-38/26-M14-W1	
		6090	1.02	1.02	1.50	.98	3.11	3.74	1.24	2.62	1.73	242.44				
38	1-1/2	420	26	26	38	28	88	108	36,5	79,3	56	177,3	M16	5/8-11 UNC	BAS-605-SRE-38/26-W1	
		6090	1.02	1.02	1.50	1.10	3.46	4.25	1.44	3.12	2.20	390.06				
38	1-1/2	420	32	32	49	28	88	108	36,5	79,3	56	180,4	M16	5/8-11 UNC	BAS-605-SRE-49/32-W1	
		6090	1.26	1.26	1.93	1.10	3.46	4.25	1.44	3.12	2.20	396.88				
38	1-1/2	420	40	40	61	28	88	108	36,5	79,3	56	185,5	M16	5/8-11 UNC	BAS-605-SRE-61/40-W1	
		6090	1.57	1.57	2.40	1.10	3.46	4.25	1.44	3.12	2.20	408.10				
51	2	420	40	40	61	37	118	137	44,5	96,8	70	352,8	M20	3/4-10 UNC	BAS-606-SRE-61/40-W1	
		6090	1.57	1.57	2.40	1.46	4.65	5.39	1.75	3.81	2.76	776.16				
51	2	420	50	48	76	28	118	137	44,5	96,8	80	105,0	M20	3/4-10 UNC	BAS-606-SRE-76/50-W1	
		6090	1.97	1.89	2.99	1.10	4.65	5.39	1.75	3.81	3.15	231.00				

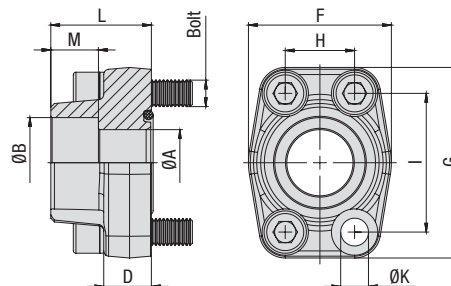
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

## Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes BAS-...-SRE-\*/\*\*-W1
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes BAS-...-SRE-\*/\*\*-W5
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) BAS-...-SRE-\*/\*\*-M14-W1
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes BAS-...-SRE-\*/\*\*-U-W1

Please always indicate ØB / ØA.

**SAE Single-Part Socket-Weld Flange**  
Type BFX-ES ▪ 3000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes
		DN	(in)	10.9	ØA	ØB	D	F	G	H	I	L		M	ØK <sup>3</sup>	
13	1/2	350	13	21,6	16	47	57	17,5	38,1	36	18	8,7	27,7	M8x30	5/16-18 UNC x 1-1/4	BFX-301-ES-21.6/13-W1
		5075	.51	.85	.63	1.85	2.24	.69	1.50	1.42	.71	.34	60.94			
13	1/2	350	13	17,5	16	47	57	17,5	38,1	36	18	8,7	28,6	M8x30	5/16-18 UNC x 1-1/4	BFX-301-ES-17.5/13-W1
		5075	.51	.69	.63	1.85	2.24	.69	1.50	1.42	.71	.34	62.92			
13	1/2	350	13	20,3	16	47	57	17,5	38,1	36	18	8,7	28,8	M8x30	5/16-18 UNC x 1-1/4	BFX-301-ES-20.3/13-W1
		5075	.51	.80	.63	1.85	2.24	.69	1.50	1.42	.71	.34	63.36			
19	3/4	350	19	27,2	18	50	67	22,3	47,6	36	18	10,5	37,7	M10x35	3/8-16 UNC x 1-1/2	BFX-302-ES-27.2/19-W1
		5075	.75	1.07	.71	1.97	2.64	.88	1.87	1.42	.71	.41	82.94			
19	3/4	350	19	25,3	18	50	67	22,3	47,6	36	18	10,5	39,7	M10x35	3/8-16 UNC x 1-1/2	BFX-302-ES-25.3/19-W1
		5075	.75	1.00	.71	1.97	2.64	.88	1.87	1.42	.71	.41	87.34			
25	1	345	25	34	18	54	72	26,2	52,4	38	18	10,5	44,8	M10x35	3/8-16 UNC x 1-1/2	BFX-303-ES-34/25-W1
		5003	.98	1.34	.71	2.13	2.83	1.03	2.06	1.50	.71	.41	98.56			
25	1	345	25	30,3	18	54	72	26,2	52,4	38	18	10,5	47,3	M10x35	3/8-16 UNC x 1-1/2	BFX-303-ES-30.3/25-W1
		5003	.98	1.19	.71	2.13	2.83	1.03	2.06	1.50	.71	.41	104.06			
32	1-1/4	280	32	42,8	21	68	82	30,2	58,7	41	20	11,5 (12,5)	64,3	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-ES-42.8/32-W1
		4061	1.26	1.69	.83	2.68	3.23	1.19	2.31	1.61	.79	.45 (.49)	141.46			
32	1-1/4	280	32	38,3	21	68	82	30,2	58,7	41	20	11,5 (12,5)	72,0	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-ES-38.3/32-W1
		4061	1.26	1.51	.83	2.68	3.23	1.19	2.31	1.61	.79	.45 (.49)	158.40			
38	1-1/2	210	38	48,6	25	79	96	35,7	69,9	44	22	13,5 (14,5)	109,4	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-ES-48.6/38-W1
		3045	1.50	1.91	.98	3.11	3.78	1.41	2.75	1.73	.87	.53 (.57)	240.68			
38	1-1/2	210	38	50,5	25	79	96	35,7	69,9	44	22	13,5 (14,5)	101,1	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-305-ES-50.5/38-W1
		3045	1.50	1.99	.98	3.11	3.78	1.41	2.75	1.73	.87	.53 (.57)	222.42			
51	2	210	51	61	25,5	88	102	42,9	77,8	45	24	13,5 (14,5)	125,7	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-306-ES-61/51-W1
		3045	2.01	2.40	1.00	3.46	4.02	1.69	3.06	1.77	.94	.53	276.54			
64	2-1/2	175	63	76,6	26	101	115	50,8	88,9	50	28	13,5 (14,5)	145,3	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX-307-ES-76.6/63-W1
		2538	2.48	3.02	1.02	3.98	4.53	2.00	3.50	1.97	1.10	.53 (.57)	319.66			
76	3	100	73	90,5	27,5	127	137	61,9	106,4	50	28	17	212,7	M16x50	5/8-11 UNC x 2	BFX-308-ES-90.5/73-W1
		1450	2.87	3.56	1.08	5.00	5.39	2.44	4.19	1.97	1.10	.67	467.94			
89	3-1/2	35	89	103	27,5	138	155	69,9	120,7	50	30	17	235,2	M16x50	5/8-11 UNC x 2	BFX-309-ES-103/89-W1
		508	3.50	4.06	1.08	5.43	6.10	2.75	4.75	1.97	1.18	.67	517.44			
102	4	35	99	115,5	27,5	147	163	77,8	130,2	50	30	17	282,8	M16x50	5/8-11 UNC x 2	BFX-310-ES-115.5/99-W1
		508	3.90	4.55	1.08	5.79	6.42	3.06	5.13	1.97	1.18	.67	622.16			
127	5	35	120	142	28	180	184	92,1	152,4	50	30	17	360,5	M16x55	5/8-11 UNC x 2-1/4	BFX-311-ES-142/120-W1
		508	4.72	5.59	1.10	7.09	7.24	3.63	6.00	1.97	1.18	.67	793.10			

Please see Page 89 for separate Bolt Sets and Sealings.

**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)

BFX-...-ES-\*/\*\*/\*\*\*-W1  
BFX-...-ES-\*/\*\*/\*\*\*-W5

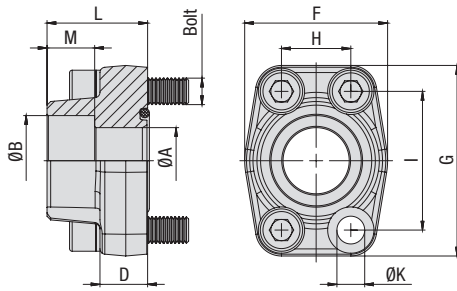
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®)

BFX-...-ES-\*/\*\*/\*\*\*-W1-K  
BFX-...-ES-\*/\*\*/\*\*\*-V-W1-K  
BFX-...-ES-\*/\*\*/\*\*\*-U-W1-K

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Socket-Weld Flange  
 Type BFX-ES • 6000 PSI Series


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

C

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes
				ØA	ØB	D	F	G	H	I	L	M	ØK		Metric	UNC	
13	1/2	420	13	21,6	16,5	47	57	18,2	40,5	36	18	8,7	28,0	M8x30	5/16-18 UNC x 1-1/4	BFX-601-ES-21.6/13-W1	
		6090	.51	.85	.65	1.85	2.24	.72	1.59	1.42	.71	.34	61.60				
13	1/2	420	13	17,5	16,5	47	57	18,2	40,5	36	18	8,7	28,8	M8x30	5/16-18 UNC x 1-1/4	BFX-601-ES-17.5/13-W1	
		6090	.51	.69	.65	1.85	2.24	.72	1.59	1.42	.71	.34	63.36				
13	1/2	420	13	20,3	16,5	47	57	18,2	40,5	36	18	8,7	27,3	M8x30	5/16-18 UNC x 1-1/4	BFX-601-ES-20.3/13-W1	
		6090	.51	.80	.65	1.85	2.24	.72	1.59	1.42	.71	.34	60.06				
19	3/4	420	19	27,2	19,5	54	72	23,8	50,8	36	20	10,5	51,9	M10x35	3/8-16 UNC x 1-1/2	BFX-602-ES-27.2/19-W1	
		6090	.75	1.07	.77	2.13	2.83	.94	2.00	1.42	.79	.41	114.18				
19	3/4	420	19	25,3	19,5	54	72	23,8	50,8	36	20	10,5	53,8	M10x35	3/8-16 UNC x 1-1/2	BFX-602-ES-25.3/19-W1	
		6090	.75	1.00	.77	2.13	2.83	.94	2.00	1.42	.79	.41	118.36				
25	1	420	25	34	24,5	68	82	27,8	57,2	44	22	13	73,8	M12x45	7/16-14 UNC x 1-3/4	BFX-603-ES-34/25-W1 <sup>2</sup>	
		6090	.98	1.34	.96	2.68	3.23	1.09	2.25	1.73	.87	.51	162.36				
25	1	420	25	30,3	24,5	68	82	27,8	57,2	44	22	13	81,0	M12x45	7/16-14 UNC x 1-3/4	BFX-603-ES-30.3/25-W1 <sup>2</sup>	
		6090	.98	1.19	.96	2.68	3.23	1.09	2.25	1.73	.87	.51	178.20				
32	1-1/4	420	32	42,8	27,5	79	95	31,8	66,6	44	22	15	110,3	M12x45	1/2-13 UNC x 1-3/4	BFX-604-ES-42.8/32-W1	
		6090	1.26	1.69	1.08	3.11	3.74	1.25	2.62	1.73	.87	.59	242.66				
32	1-1/4	420	32	38,3	27,5	79	95	31,8	66,6	44	22	15	125,6	M14x45		BFX-604-ES-42.8/32-M14-W1	
		6090	1.26	1.69	1.08	3.11	3.74	1.25	2.62	1.73	.87	.59	242.66				
32	1-1/4	420	32	38,3	27,5	79	95	31,8	66,6	44	22	13,5	118,3	M12x45	1/2-13 UNC x 1-3/4	BFX-604-ES-38.3/32-W1	
		6090	1.26	1.51	1.08	3.11	3.74	1.25	2.62	1.73	.87	.53	260.26				
32	1-1/4	420	32	38,3	27,5	79	95	31,8	66,6	44	22	15	125,6	M14x45		BFX-604-ES-38.3/32-M14-W1	
		6090	1.26	1.51	1.08	3.11	3.74	1.25	2.62	1.73	.87	.59	276.32				
38	1-1/2	420	38	48,6	31	88	108	36,5	79,3	51	24	17	183,5	M16x55	5/8-11 UNC x 2-1/4	BFX-605-ES-48.6/38-W1	
		6090	1.50	1.91	1.22	3.46	4.25	1.44	3.12	2.01	.94	.67	403.70				
38	1-1/2	420	38	50,5	31	88	108	36,5	79,3	51	24	17	184,7	M16x55	5/8-11 UNC x 2-1/4	BFX-605-ES-50.5/38-W1	
		6090	1.50	1.99	1.22	3.46	4.25	1.44	3.12	2.01	.94	.67	406.34				
51	2	420	51	61	37	118	137	44,5	96,8	65	24	21	329,2	M20x70	3/4-10 UNC x 2-3/4	BFX-606-ES-61/51-W1	
		6090	2.01	2.40	1.46	4.65	5.39	1.75	3.81	2.56	.94	.83	724.24				
64	2-1/2	420	63	76,6	45	152	180	58,7	123,8	80	32	26	849,6	M24x80		BFX-607-ES-76.6/63-W1	
		6090	2.48	3.02	1.77	5.98	7.09	2.31	4.87	3.15	1.26	1.02	1869.12				
76	3	420	73	90,5	55	178	208	71,4	152,4	90	30	33	1110,1	M30x100		BFX-608-ES-90.5/73-W1	
		6090	2.87	3.56	2.17	7.01	8.19	2.81	6.00	3.54	1.18	1.30	2442.22				

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

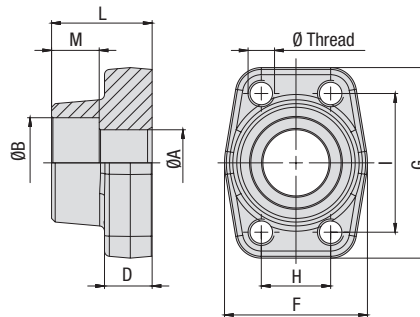
<sup>2</sup> For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

## Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) BFX-...-ES-\*/\*\*/\*\*\*-W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX-...-ES-\*/\*\*/\*\*\*-W5
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-ES-\*/\*\*/\*\*\*-W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-ES-\*/\*\*/\*\*\*-V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX-...-ES-\*/\*\*/\*\*\*-U-W1-K

Please always indicate ØB / ØA.

**SAE Single-Part Socket-Weld Counterflange  
Type BAS-ES • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) Ca. per 100	Ø Thread		Ordering Codes
				10.9	ØA	ØB	D	F	G	H	I	L		M	Metric <sup>3</sup>	
13	1/2		350	13	21,6	16	47	57	17,5	38,1	36	18	29,4	M8	5/16-18 UNC	BAS-301-ES-21.6/13-W1
			5075	.51	.85	.63	1.85	2.24	.69	1.50	1.42	.71	64.68			
13	1/2		350	13	17,5	16	47	57	17,5	38,1	36	18	30,3	M8	5/16-18 UNC	BAS-301-ES-17.5/13-W1
			5075	.51	.69	.63	1.85	2.24	.69	1.50	1.42	.71	66.66			
13	1/2		350	13	20,3	16	47	57	17,5	38,1	36	18	30,2	M8	5/16-18 UNC	BAS-301-ES-20.3/13-W1
			5075	.51	.80	.63	1.85	2.24	.69	1.50	1.42	.71	66.44			
19	3/4		350	19	27,2	18	50	67	22,3	47,6	36	18	40,1	M10	3/8-16 UNC	BAS-302-ES-27.2/19-W1
			5075	.75	1.07	.71	1.97	2.64	.88	1.87	1.42	.71	88.22			
19	3/4		350	19	25,3	18	50	67	22,3	47,6	36	18	41,9	M10	3/8-16 UNC	BAS-302-ES-25.3/19-W1
			5075	.75	1.00	.71	1.97	2.64	.88	1.87	1.42	.71	92.18			
25	1		345	25	34	18	54	72	26,2	52,4	38	18	46,4	M10	3/8-16 UNC	BAS-303-ES-34/25-W1
			5003	.98	1.34	.71	2.13	2.83	1.03	2.06	1.50	.71	102.08			
25	1		345	25	30,3	18	54	72	26,2	52,4	38	18	50,0	M10	3/8-16 UNC	BAS-303-ES-30.3/25-W1
			5003	.98	1.19	.71	2.13	2.83	1.03	2.06	1.50	.71	110.00			
32	1-1/4		280	32	42,8	21	68	82	30,2	58,7	41	20	68,0	M10 (M12)	7/16-14 UNC	BAS-304-ES-42.8/32-W1
			4061	1.26	1.69	.83	2.68	3.23	1.19	2.31	1.61	.79	149.60			
32	1-1/4		280	32	38,3	21	68	82	30,2	58,7	41	20	72,0	M10 (M12)	7/16-14 UNC	BAS-304-ES-38.3/32-W1
			4061	1.26	1.51	.83	2.68	3.23	1.19	2.31	1.61	.79	158.40			
38	1-1/2		210	38	48,6	25	79	96	35,7	69,9	44	22	107,3	M12 (M14)	1/2-13 UNC	BAS-305-ES-48.6/38-W1
			3045	1.50	1.91	.98	3.11	3.78	1.41	2.75	1.73	.87	236.06			
38	1-1/2		210	38	50,5	25	79	96	35,7	69,9	44	22	105,7	M12 (M14)	1/2-13 UNC	BAS-305-ES-50.5/38-W1
			3045	1.50	1.99	.98	3.11	3.78	1.41	2.75	1.73	.87	232.54			
51	2		210	51	61	25,5	88	102	42,9	77,8	45	24	126,0	M12 (M14)	1/2-13 UNC	BAS-306-ES-61/51-W1
			3045	2.01	2.40	1.00	3.46	4.02	1.69	3.06	1.77	.94	277.20			
64	2-1/2		175	63	76,6	26	101	115	50,8	88,9	50	28	145,0	M12 (M14)	1/2-13 UNC	BAS-307-ES-76.6/63-W1
			2538	2.48	3.02	1.02	3.98	4.53	2.00	3.50	1.97	1.10	319.00			
76	3		100	73	90,5	27,5	127	137	61,9	106,4	50	28	217,7	M16	5/8-11 UNC	BAS-308-ES-90.5/73-W1
			1450	2.87	3.56	1.08	5.00	5.39	2.44	4.19	1.97	1.10	478.94			
89	3-1/2		35	89	103	27,5	138	155	69,9	120,7	50	30	263,8	M16	5/8-11 UNC	BAS-309-ES-103/89-W1
			508	3.50	4.06	1.08	5.43	6.10	2.75	4.75	1.97	1.18	580.36			
102	4		35	99	115,5	27,5	147	163	77,8	130,2	50	30	295,1	M16	5/8-11 UNC	BAS-310-ES-115.5/99-W1
			508	3.90	4.55	1.08	5.79	6.42	3.06	5.13	1.97	1.18	649.22			
127	5		35	120	142	28	180	184	92,1	152,4	50	30	390,6	M16	5/8-11 UNC	BAS-311-ES-142/120-W1
			508	4.72	5.59	1.10	7.09	7.24	3.63	6.00	1.97	1.18	859.32			

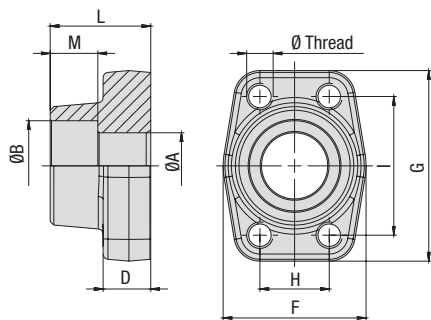
**Materials / Ordering Options / Examples**

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes **BAS-...-ES-\*\*/\*\*-W1**
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes **BAS-...-ES-\*\*/\*\*-W5**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) **BAS-...-ES-\*\*/\*\*-M14-W1**
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes **BAS-...-ES-\*\*/\*\*-U-W1**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.



## SAE Single-Part Socket-Weld Counterflange Type BAS-ES - 6000 PSI Series



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

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) Ca. per 100	Ø Thread		Ordering Codes
DN	(in)		10.9	ØA	ØB	D	F	G	H	I	L	M		Metric	UNC	
13	1/2	420	13	21,6	16,5	47	57	18,2	40,5	36	18	28,3	M8	5/16-18 UNC	BAS-601-ES-21.6/13-W1	
		6090	.51	.85	.65	1.85	2.24	.72	1.59	1.42	.71	62.26				
13	1/2	420	13	17,5	16,5	47	57	18,2	40,5	36	18	30,0	M8	5/16-18 UNC	BAS-601-ES-17.5/13-W1	
		6090	.51	.69	.65	1.85	2.24	.72	1.59	1.42	.71	66.00				
13	1/2	420	13	20,3	16,5	47	57	18,2	40,5	36	18	29,0	M8	5/16-18 UNC	BAS-601-ES-20.3/13-W1	
		6090	.51	.80	.65	1.85	2.24	.72	1.59	1.42	.71	63.80				
19	3/4	420	19	27,2	19,5	54	72	23,8	50,8	36	20	51,2	M10	3/8-16 UNC	BAS-602-ES-27.2/19-W1	
		6090	.75	1.07	.77	2.13	2.83	.94	2.00	1.42	.79	112.64				
19	3/4	420	19	25,3	19,5	54	72	23,8	50,8	36	20	52,5	M10	3/8-16 UNC	BAS-602-ES-25.3/19-W1	
		6090	.75	1.00	.77	2.13	2.83	.94	2.00	1.42	.79	115.50				
25	1	420	25	34	24,5	68	82	27,8	57,2	44	22	77,1	M12	7/16-14 UNC	BAS-603-ES-34/25-W1	
		6090	.98	1.34	.96	2.68	3.23	1.09	2.25	1.73	.87	169.62				
25	1	420	25	30,3	24,5	68	82	27,8	57,2	44	22	91,1	M12	7/16-14 UNC	BAS-603-ES-30.3/25-W1	
		6090	.98	1.19	.96	2.68	3.23	1.09	2.25	1.73	.87	200.42				
32	1-1/4	420	32	42,8	27,5	79	95	31,8	66,6	44	22	117,1	M12	1/2-13 UNC	BAS-604-ES-42.8/32-W1	
		6090	1.26	1.69	1.08	3.11	3.74	1.25	2.62	1.73	.87	257.62				
32	1-1/4	420	32	42,8	27,5	79	95	31,8	66,6	44	22	116,7	M14		BAS-604-ES-42.8/32-M14-W1	
		6090	1.26	1.69	1.08	3.11	3.74	1.25	2.62	1.73	.87	256.74				
32	1-1/4	420	32	38,3	27,5	79	95	31,8	66,6	44	22	126,2	M12	1/2-13 UNC	BAS-604-ES-38.3/32-W1	
		6090	1.26	1.51	1.08	3.11	3.74	1.25	2.62	1.73	.87	277.64				
32	1-1/4	420	32	38,3	27,5	79	95	31,8	66,6	44	22	123,9	M14		BAS-604-ES-38.3/32-M14-W1	
		6090	1.26	1.51	1.08	3.11	3.74	1.25	2.62	1.73	.87	272.58				
38	1-1/2	420	38	48,6	31	88	108	36,5	79,3	51	24	184,2	M16	5/8-11 UNC	BAS-605-ES-48.6/38-W1	
		6090	1.50	1.91	1.22	3.46	4.25	1.44	3.12	2.01	.94	405.24				
38	1-1/2	420	38	50,5	31	88	108	36,5	79,3	51	24	191,4	M16	5/8-11 UNC	BAS-605-ES-50.5/38-W1	
		6090	1.50	1.99	1.22	3.46	4.25	1.44	3.12	2.01	.94	421.08				
51	2	420	51	61	37	118	137	44,5	96,8	65	24	356,9	M20	3/4-10 UNC	BAS-606-ES-61/51-W1	
		6090	2.01	2.40	1.46	4.65	5.39	1.75	3.81	2.56	.94	785.18				
64	2-1/2	420	63	76,6	45	152	180	58,7	123,8	80	32	740,2	M24		BAS-607-ES-76.6/63-W1	
		6090	2.48	3.02	1.77	5.98	7.09	2.31	4.87	3.15	1.26	1628.44				
76	3	420	73	90,5	55	178	208	71,4	152,4	90	30	1304,8	M30		BAS-608-ES-90.5/73-W1	
		6090	2.87	3.56	2.17	7.01	8.19	2.81	6.00	3.54	1.18	2870.56				

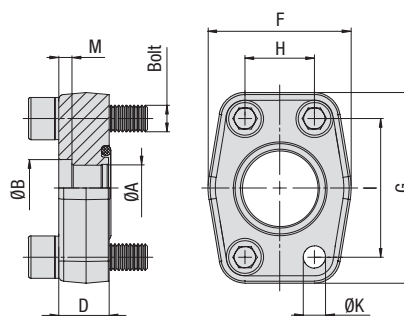
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

### Materials / Ordering Options / Examples

- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes BAS-...-ES-\*/\*\*-W1
- \* SAE Single-Part Counterflange made of Stainless Steel V4A – 1.4404 (on request) with Metric tapped holes BAS-...-ES-\*/\*\*-W5
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with size of Metric tapped holes deviating from the standard (e.g. M14) BAS-...-ES-\*/\*\*-M14-W1
- \* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with UNC tapped holes BAS-...-ES-\*/\*\*-U-W1

Please always indicate ØB / ØA.

**SAE Single-Part Socket-Weld Flange (Flat Style)**  
**Type BFX-FL-ES ▪ 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)		Dimensions (mm/in)								Weight (kg/lbs) ca. per 100		for Bolts Metric	Ordering Codes
DN	(in)	10.9	580	ØA	ØB	D	F	G	H	I	M	ØK			
13	1/2	40	15	22,5	10	47	57	17,5	38,1	3	8,7	12,8	M8x25	BFX-FL-301-ES-22.5/15-W1	
		580	.59	.89	.39	1.85	2.24	.69	1.50	.12	.34	28.16			
19	3/4	40	20	28,5	12	50	67	22,3	47,6	4	10,5	18,7	M10x30	BFX-FL-302-ES-28.5/20-W1	
		580	.79	1.12	.47	1.97	2.64	.88	1.87	.16	.41	41.14			
25	1	40	29	35,5	12	54	72	26,2	52,4	4	10,5	19,7	M10x30	BFX-FL-303-ES-35.5/29-W1	
		580	1.14	1.40	.47	2.13	2.83	1.03	2.06	.16	.41	43.34			
32	1-1/4	40	34	42,5	12	68	82	30,2	58,7	4	11,5	26,9	M10x30	BFX-FL-304-ES-42.5/34-W1	
		580	1.34	1.67	.47	2.68	3.23	1.19	2.31	.16	.45	59.18			
38	1-1/2	40	42	49	15	79	96	35,7	69,9	4	13,5	45,7	M12x35	BFX-FL-305-ES-49/42-W1	
		580	1.65	1.93	.59	3.11	3.78	1.41	2.75	.16	.53	100.54			
51	2	40	53	61	15	88	102	42,9	77,8	4	13,5	55,5	M12x35	BFX-FL-306-ES-61/53-W1	
		580	2.09	2.40	.59	3.46	4.02	1.69	3.06	.16	.53	122.10			
64	2-1/2	40	64	77	15	101	115	50,8	88,9	4	13,5	68,0	M12x35	BFX-FL-307-ES-77/64-W1	
		580	2.52	3.03	.59	3.98	4.53	2.00	3.50	.16	.53	149.60			
76	3	40	80	90	20	127	137	61,9	106,4	5	17	125,8	M16x50	BFX-FL-308-ES-90/80-W1	
		580	3.15	3.54	.79	5.00	5.39	2.44	4.19	.20	.67	276.76			
89	3-1/2	35	93	103	20	138	155	69,9	120,7	5	17	143,5	M16x50	BFX-FL-309-ES-103/93-W1	
		508	3.66	4.06	.79	5.43	6.10	2.75	4.75	.20	.67	315.70			
102	4	35	105	116	25	147	163	77,8	130,2	6	17	194,6	M16x50	BFX-FL-310-ES-116/105-W1	
		508	4.13	4.57	.98	5.79	6.42	3.06	5.13	.24	.67	428.12			
125	5	35	126	141	28	170	190	92,1	152,4	8	17	287,8	M16x50	BFX-FL-311-ES-141/126-W1	
		508	4.96	5.55	1.10	6.69	7.48	3.63	6.00	.31	.67	633.16			

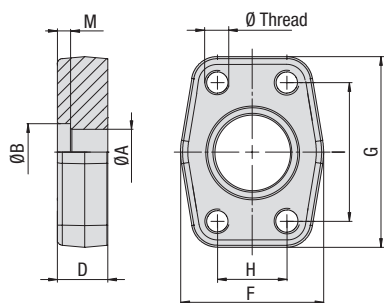
Please see Page 89 for separate Bolt Sets and Sealings.

**Materials / Ordering Options / Examples**

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) **BFX-FL-...-ES-\*/\*\*-W1**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX-FL-...-ES-\*/\*\*-W46-K**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) **BFX-FL-...-ES-\*/\*\*-V-W46-K**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX-FL-...-ES-\*/\*\*-MH-W1-K**

Please always indicate ØB / ØA.

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

SAE Single-Part Socket-Weld Counterflange (Flat Style)  
 Type BAS-FL-ES ▪ 3000 PSI Series


3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)								Weight ( <sup>kg</sup> /lbs) ca. per 100	Ø Thread Metric	Ordering Codes
DN	(in)		10.9	ØA	ØB	D	F	G	H	I			
13	1/2	40	15	22,5	10	47	57	17,5	38,1	3	14,4	M8	BAS-FL-301-ES-22.5/15-W1
		580	.59	.89	.39	1.85	2.24	.69	1.50	.12	31.68		
19	3/4	40	20	28,5	12	50	67	22,3	47,6	4	20,5	M10	BAS-FL-302-ES-28.5/20-W1
		580	.79	1.12	.47	1.97	2.64	.88	1.87	.16	45.10		
25	1	40	29	35,5	12	54	72	26,2	52,4	4	21,6	M10	BAS-FL-303-ES-35.5/29-W1
		580	1.14	1.40	.47	2.13	2.83	1.03	2.06	.16	47.52		
32	1-1/4	40	34	42,5	12	68	82	30,2	58,7	4	29,5	M10	BAS-FL-304-ES-42.5/34-W1
		580	1.34	1.67	.47	2.68	3.23	1.19	2.31	.16	64.90		
38	1-1/2	40	42	49	15	79	96	35,7	69,9	4	48,6	M12	BAS-FL-305-ES-49/42-W1
		580	1.65	1.93	.59	3.11	3.78	1.41	2.75	.16	106.92		
51	2	40	53	61	15	88	102	42,9	77,8	4	59,8	M12	BAS-FL-306-ES-61/53-W1
		580	2.09	2.40	.59	3.46	4.02	1.69	3.06	.16	131.56		
64	2-1/2	40	64	77	15	101	115	50,8	88,9	4	72,4	M12	BAS-FL-307-ES-77/64-W1
		580	2.52	3.03	.59	3.98	4.53	2.00	3.50	.16	159.28		
76	3	40	80	90	20	127	137	61,9	106,4	5	132,9	M16	BAS-FL-308-ES-90/80-W1
		580	3.15	3.54	.79	5.00	5.39	2.44	4.19	.20	292.38		
89	3-1/2	35	93	103	20	138	155	69,9	120,7	5	151,6	M16	BAS-FL-309-ES-103/93-W1
		508	3.66	4.06	.79	5.43	6.10	2.75	4.75	.20	333.52		
102	4	35	105	116	25	147	163	77,8	130,2	6	203,9	M16	BAS-FL-310-ES-116/105-W1
		508	4.13	4.57	.98	5.79	6.42	3.06	5.13	.24	448.58		
125	5	35	126	141	28	170	190	92,1	152,4	8	293,0	M16	BAS-FL-311-ES-141/126-W1
		508	4.96	5.55	1.10	6.69	7.48	3.63	6.00	.31	644.60		

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

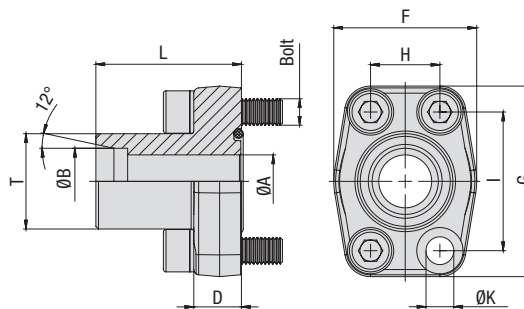
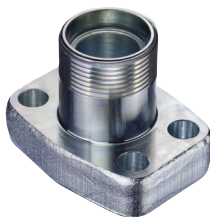
## Materials / Ordering Options / Examples

\* SAE Single-Part Counterflange made of Steel S355J2 or equivalent, blank (oiled) with Metric tapped holes

BAS-FL-...-ES-\*/\*\*-W1

Please always indicate ØB / ØA.

**SAE Single-Part Flange with Male Metric Thread and 24° Conical Bore (acc. to ISO 8434-1)  
Type BFX-L/S • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)													Weight (kg/lbs) ca. per 100	for Bolts Metric <sup>3</sup>	Ordering Codes
DN	(in)	10.9	ØA	ØB	Series	D	F	G	H	I	L	T (Metric)	ØK <sup>3</sup>					
13	1/2	350	11	15	L	16	43	57	17,5	38,1	47	22x1,5	8,7	26,2	M8x30	BFX-301-15L-W66		
		5075	.43	.59		.63	1.69	2.24	.69	1.50	1.85	.34	57.64					
19	3/4	350	16	20	S	18	50	67	22,3	47,6	52	30x2	10,5	40,7	M10x35	BFX-302-20S-W66		
		5075	.63	.79		.71	1.97	2.64	.88	1.87	2.05	.41	89.54					
19	3/4	250	18	22	L	18	50	67	22,3	47,6	52	30x2	10,5	42,4	M10x35	BFX-302-22L-W66		
		3626	.71	.87		.71	1.97	2.64	.88	1.87	2.05	.41	93.28					
25	1	345	16	20	S	18	54	72	26,2	52,4	55	30x2	10,5	52,5	M10x35	BFX-303-20S-W66		
		5003	.63	.79		.71	2.13	2.83	1.03	2.06	2.17	.41	115.50					
25	1	345	20	25	S	18	54	72	26,2	52,4	55	36x2	10,5	56,1	M10x35	BFX-303-25S-W66		
		5003	.79	.98		.71	2.13	2.83	1.03	2.06	2.17	.41	123.42					
25	1	250	23	28	L	18	54	72	26,2	52,4	55	36x2	10,5	52,5	M10x35	BFX-303-28L-W66		
		3626	.91	1.10		.71	2.13	2.83	1.03	2.06	2.17	.41	115.50					
32	1-1/4	280	20	25	S	21	68	82	30,2	58,7	60	36x2	11,5 (13,5)	81,0	M10x40 (M12x40)	BFX-304-25S-W66		
		4061	.79	.98		.83	2.68	3.23	1.19	2.31	2.36	.45 (.53)	178.20					
32	1-1/4	280	25	30	S	21	68	82	30,2	58,7	60	42x2	11,5 (13,5)	69,7	M10x40 (M12x40)	BFX-304-30S-W66		
		4061	.98	1.18		.83	2.68	3.23	1.19	2.31	2.36	.45 (.53)	153.34					
32	1-1/4	250	30	35	L	21	68	82	30,2	58,7	60	45x2	11,5 (13,5)	80,1	M10x40 (M12x40)	BFX-304-35L-W66		
		3626	1.18	1.38		.83	2.68	3.23	1.19	2.31	2.36	.45 (.53)	176.22					
38	1-1/2	210	32	38	S	25	74	96	35,7	69,9	70	52x2	13,5 (14,5)	130,5	M12x45 (M14x45)	BFX-305-38S-W66		
		3045	1.26	1.50		.98	2.91	3.78	1.41	2.75	2.76	.53 (.57)	287.10					
38	1-1/2	210	36	42	L	25	74	96	35,7	69,9	70	52x2	13,5 (14,5)	121,2	M12x45 (M14x45)	BFX-305-42L-W66		
		3045	1.42	1.65		.98	2.91	3.78	1.41	2.75	2.76	.53 (.57)	266.64					

Please see Page 89 for separate Bolt Sets and Sealings.

**Materials / Ordering Options / Examples**

\* SAE Single-Part Flange (without O-ring) made of Steel S355J2 / C45 or equivalent, zinc-plated and thick-film-passivated

**BFX-...-...-W66**

\* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request)

**BFX-...-...-W5**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)

**BFX-...-...-W130-K**

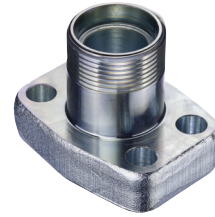
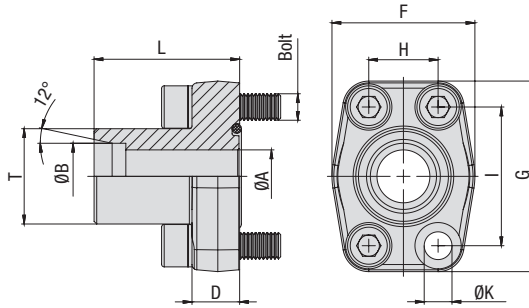
\* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)

**BFX-...-...-V-W130-K**

Please always indicate ØB and Series.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

**SAE Single-Part Flange with Male Metric Thread and 24° Conical Bore (acc. to ISO 8434-1)  
Type BFX-L/S - 6000 PSI Series**


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

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)			Series	D	F	G	H	I	L	T (Metric)	ØK	Weight ( <sup>kg</sup> /lbs) ca. per 100	for Bolts Metric	Ordering Codes
DN	(in)	10.9	ØA	ØB													
13	1/2	420	12	16	S	16	43	57	18,2	40,5	47	24x1,5	8,7	27,3	M8x30	BFX-601-16S-W66	
		6090	.47	.63		.63	1.69	2.24	.72	1.59	1.85	.34	60.06				
19	3/4	420	12	16	S	18	54	72	23,8	50,8	52	24x1,5	10,5	53,2	M10x35	BFX-602-16S-W66	
		6090	.47	.63		.71	2.13	2.83	.94	2.00	2.05	.41	117.04				
19	3/4	400	16	20	S	18	54	72	23,8	50,8	52	30x2	10,5	52,7	M10x35	BFX-602-20S-W66	
		5800	.63	.79		.71	2.13	2.83	.94	2.00	2.05	.41	115.94				
19	3/4	400	18	25	S	18	54	72	23,8	50,8	52	36x2	10,5	56,8	M10x35	BFX-602-25S-W66	
		5800	.71	.98		.71	2.13	2.83	.94	2.00	2.05	.41	124.96				
25	1	400	16	20	S	21	68	82	27,8	57,2	60	30x2	13	76,1	M12x40	BFX-603-20S-W66	
		5800	.63	.79		.83	2.68	3.23	1.09	2.25	2.36	.51	167.42				
25	1	400	18	25	S	21	68	82	27,8	57,2	60	36x2	13	79,0	M12x40	BFX-603-25S-W66	
		5800	.71	.98		.83	2.68	3.23	1.09	2.25	2.36	.51	173.80				
25	1	400	25	30	S	21	68	82	27,8	57,2	60	42x2	13	82,4	M12x40	BFX-603-30S-W66	
		5800	.98	1.18		.83	2.68	3.23	1.09	2.25	2.36	.51	181.28				
32	1-1/4	400	25	30	S	24	75	95	31,8	66,6	68	42x2	13,5	118,2	M12x45	BFX-604-30S-W66	
		5800	.98	1.18		.94	2.95	3.74	1.25	2.62	2.68	.53	260.04				
32	1-1/4	400	25	30	S	24	75	95	31,8	66,6	68	42x2	15	117,4	M14x45	BFX-604-30S-M14-W66	
		5800	.98	1.18		.94	2.95	3.74	1.25	2.62	2.68	.59	258.28				
32	1-1/4	400	29	38	S	24	75	95	31,8	66,6	68	52x2	13,5	124,5	M12x45	BFX-604-38S-W66	
		5800	1.14	1.50		.94	2.95	3.74	1.25	2.62	2.68	.53	273.90				
32	1-1/4	400	29	38	S	27	75	95	31,8	66,6	68	52x2	15	121,6	M14x45	BFX-604-38S-M14-W66	
		5800	1.14	1.50		1.06	2.95	3.74	1.25	2.62	2.68	.59	267.52				
38	1-1/2	400	32	38	S	27	84	108	36,5	79,3	72	52x2	17	170,7	M16x50	BFX-605-38S-W66	
		5800	1.26	1.50		1.06	3.31	4.25	1.44	3.12	2.83	.67	375.54				

Please see Page 89 for separate Bolt Sets and Sealings.

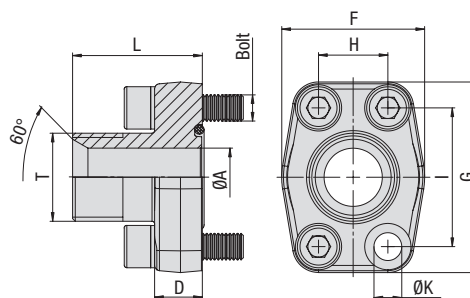
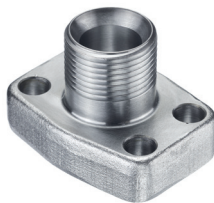
<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

**Materials / Ordering Options / Examples**

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 / C45 or equivalent, zinc-plated and thick-film-passivated BFX-...-...-W66
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX-...-...-W5
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-...-W130-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-...-V-W130-K

Please always indicate ØB and Series.

## SAE Single-Part Flange with Male BSPP Thread and 60° Conical Bore (acc. to BS 5200) Type BFX-B • 3000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)						T (BSPP)	ØK <sup>3</sup>	Weight		for Bolts	Ordering Codes
				10.9	ØA	D	F	G	H			I	L		
13	1/2		350	10	16	43	57	17,5	38	37	3/8 (06)	8,7	22,6	M8x30	BFX-301-B06-W66
			5075	.39	.63	1.69	2.24	.69	1.50	1.46	.34	49.72			
13	1/2		350	12	16	43	57	17,5	38	39	1/2	8,7	23,6	M8x30	BFX-301-B-W66
			5075	.47	.63	1.69	2.24	.69	1.50	1.54	.34	51.92			
13	1/2		350	13	16	43	57	17,5	38	42	3/4 (12)	8,7	25,6	M8x30	BFX-301-B12-W66
			5075	.51	.63	1.69	2.24	.69	1.50	1.65	.34	56.32			
19	3/4		350	12	18	50	67	22,3	47,6	42	1/2 (08)	10,5	37,3	M10x35	BFX-302-B08-W66
			5075	.47	.71	1.97	2.64	.88	1.87	1.65	.41	82.06			
19	3/4		350	17	18	50	67	22,3	47,6	45	3/4	10,5	39,8	M10x35	BFX-302-B-W66
			5075	.67	.71	1.97	2.64	.88	1.87	1.77	.41	87.56			
19	3/4		350	19	18	50	67	22,3	47,6	47	1 (16)	10,5	43,4	M10x35	BFX-302-B16-W66
			5075	.75	.71	1.97	2.64	.88	1.87	1.85	.41	95.48			
25	1		345	17	18	54	72	26,2	52,4	47	3/4 (12)	10,5	46,0	M10x35	BFX-303-B12-W66
			5003	.67	.71	2.13	2.83	1.03	2.06	1.85	.41	101.20			
25	1		345	22	18	54	72	26,2	52,4	49	1	10,5	47,3	M10x35	BFX-303-B-W66
			5003	.87	.71	2.13	2.83	1.03	2.06	1.93	.41	104.06			
25	1		345	25	18	54	72	26,2	52,4	49	1-1/4 (20)	10,5	53,3	M10x35	BFX-303-B20-W66
			5003	.98	.71	2.13	2.83	1.03	2.06	1.93	.41	117.26			
32	1-1/4		280	22	21	68	82	30,2	58,7	53	1 (16)	11,5 (13,5)	71,5	M10x40 (M12x40)	BFX-304-B16-W66
			4061	.87	.83	2.68	3.23	1.19	2.31	2.09	.45 (.53)	157.30			
32	1-1/4		280	27	21	68	82	30,2	58,7	55	1-1/4	11,5 (13,5)	77,0	M10x40 (M12x40)	BFX-304-B-W66
			4061	1.06	.83	2.68	3.23	1.19	2.31	2.17	.45 (.53)	169.40			
32	1-1/4		280	31	21	68	82	30,2	58,7	55	1-1/2 (24)	11,5 (13,5)	88,2	M10x40 (M12x40)	BFX-304-B24-W66
			4061	1.22	.83	2.68	3.23	1.19	2.31	2.17	.45 (.53)	194.04			
38	1-1/2		210	27	24	74	96	35,7	69,9	59	1-1/4 (20)	13,5 (14,5)	78,6	M12x45 (M14x45)	BFX-305-B20-W66
			3045	1.06	.94	2.91	3.78	1.41	2.75	2.32	.53 (.57)	172.92			
38	1-1/2		210	34	24	74	96	35,7	69,9	61	1-1/2	13,5 (14,5)	107,8	M12x45 (M14x45)	BFX-305-B-W66
			3045	1.34	.94	2.91	3.78	1.41	2.75	2.40	.53 (.57)	237.16			
38	1-1/2		210	38	24	74	96	35,7	69,9	63	2 (32)	13,5 (14,5)	123,1	M12x45 (M14x45)	BFX-305-B32-W66
			3045	1.50	.94	2.91	3.78	1.41	2.75	2.48	.53 (.57)	270.82			
51	2		210	34	25	88	102	42,9	77,8	69	1-1/2 (24)	13,5 (14,5)	154,9	M12x45 (M14x45)	BFX-306-B24-W66
			3045	1.34	.98	3.46	4.02	1.69	3.06	2.72	.53 (.57)	340.78			
51	2		210	42	25	88	102	42,9	77,8	69	2	13,5 (14,5)	155,4	M12x45 (M14x45)	BFX-306-B-W66
			3045	1.65	.98	3.46	4.02	1.69	3.06	2.72	.53 (.57)	341.88			

Please see Page 89 for separate Bolt Sets and Sealings.

### Materials / Ordering Options / Examples

\* SAE Single-Part Flange (without O-ring) made of Steel S355J2 / C45 or equivalent, zinc-plated and thick-film-passivated

**BFX-...-B-W66**

\* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request)

**BFX-...-B-W5**

\* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP)

**BFX-...-B20-W66**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)

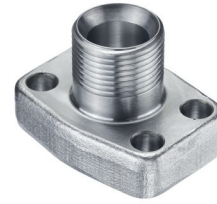
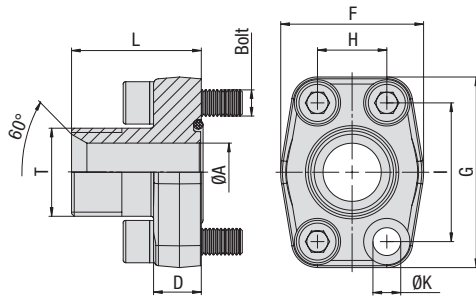
**BFX-...-B-W130-K**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)

**BFX-...-B-V-W130-K**

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE Single-Part Flange with Male BSPP Thread and 60° Conical Bore (acc. to BS 5200)  
 Type BFX-B • 6000 PSI Series


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

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)									Weight (kg/lbs) ca. per 100	for Bolts Metric	Ordering Codes
DN	(in)	10.9	ØA	D	F	G	H	I	L	T (BSPP)	ØK			
13	1/2	420	10	16	43	57	18,2	40,5	38	3/8 (06)	8,7	21,7	M8x30	BFX-601-B06-W66
		6090	.39	.63	1.69	2.24	.72	1.59	1.50		.34	47.74		
13	1/2	420	12	16	43	57	18,2	40,5	40	1/2	8,7	23,7	M8x30	BFX-601-B-W66
		6090	.47	.63	1.69	2.24	.72	1.59	1.57		.34	52.14		
13	1/2	420	13	16	43	57	18,2	40,5	43	3/4 (12)	8,7	27,5	M8x30	BFX-601-B12-W66
		6090	.51	.63	1.69	2.24	.72	1.59	1.69		.34	60.50		
19	3/4	420	12	18	54	72	23,8	50,8	44	1/2 (08)	10,5	43,5	M10x35	BFX-602-B08-W66
		6090	.47	.71	2.13	2.83	.94	2.00	1.73		.41	95.70		
19	3/4	420	17	18	54	72	23,8	50,8	47	3/4	10,5	44,9	M10x35	BFX-602-B-W66
		6090	.67	.71	2.13	2.83	.94	2.00	1.85		.41	98.78		
19	3/4	420	19	18	54	72	23,8	50,8	49	1 (16)	10,5	50,9	M10x35	BFX-602-B16-W66
		6090	.75	.71	2.13	2.83	.94	2.00	1.93		.41	111.98		
25	1	420	17	21	68	82	27,8	57,2	54	3/4 (12)	13	68,7	M12x40	BFX-603-B12-W66
		6090	.67	.83	2.68	3.23	1.09	2.25	2.13		.51	151.14		
25	1	420	22	21	68	82	27,8	57,2	56	1	13	71,3	M12x40	BFX-603-B-W66
		6090	.87	.83	2.68	3.23	1.09	2.25	2.20		.51	156.86		
25	1	420	25	21	68	82	27,8	57,2	56	1-1/4 (20)	13	79,0	M12x40	BFX-603-B20-W66
		6090	.98	.83	2.68	3.23	1.09	2.25	2.20		.51	173.80		
32	1-1/4	420	22	24	75	95	31,8	66,6	61	1 (16)	13,5	116,7	M12x45	BFX-604-B16-W66
		6090	.87	.94	2.95	3.74	1.25	2.62	2.40		.53	256.74		
32	1-1/4	420	22	24	75	95	31,8	66,6	61	1 (16)	15	106,9	M14x45	BFX-604-B16-M14-W66
		6090	.87	.94	2.95	3.74	1.25	2.62	2.40		.59	235.18		
32	1-1/4	420	27	24	75	95	31,8	66,6	61	1-1/4	13,5	116,7	M12x45	BFX-604-B-W66
		6090	1.06	.94	2.95	3.74	1.25	2.62	2.40		.53	256.74		
32	1-1/4	420	27	24	75	95	31,8	66,6	61	1-1/4	15	110,3	M14x45	BFX-604-B-M14-W66
		6090	1.06	.94	2.95	3.74	1.25	2.62	2.40		.59	242.66		
32	1-1/4	420	31	24	75	95	31,8	66,6	63	1-1/2 (24)	13,5	106,9	M12x45	BFX-604-B24-W66
		6090	1.22	.94	2.95	3.74	1.25	2.62	2.48		.53	235.18		
32	1-1/4	420	31	24	75	95	31,8	66,6	63	1-1/2 (24)	15	114,5	M14x45	BFX-604-B24-M14-W66
		6090	1.22	.94	2.95	3.74	1.25	2.62	2.48		.59	251.90		
38	1-1/2	420	27	27	84	108	36,5	79,3	65	1-1/4	17	157,9	M16x50	BFX-605-B20-W66
		6090	1.06	1.06	3.31	4.25	1.44	3.12	2.56		.67	347.38		
38	1-1/2	420	32	27	84	108	36,5	79,3	67	1-1/2	17	156,5	M16x50	BFX-605-B-W66
		6090	1.26	1.06	3.31	4.25	1.44	3.12	2.64		.67	344.30		

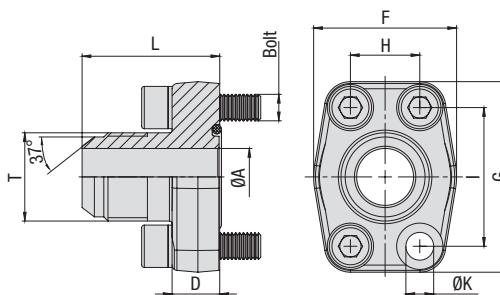
Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

## Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 / C45 or equivalent, zinc-plated and thick-film-passivated BFX-...-B-W66
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX-...-B-W5
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP) BFX-...-B20-W66
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX-...-B-W130-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX-...-B-V-W130-K

**SAE Single-Part Flange with Male UN/UNF Thread and 37° JIC Taper (acc. to ISO 8434-2 / SAE J514)  
Type BFX-J • 3000 / 6000 PSI Series**



**3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)**

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)								T (UN/UNF)	ØK <sup>3</sup>	Weight for Bolts			Ordering Codes
				10.9	ØA	D	F	G	H	I	L			(kg/lbs) ca. per 100	Metric <sup>3</sup>	UNC	
13	1/2		350	9,9	16	43	57	17,5	38,1	41	3/4-16 (08)	8,7	24,4	M8x30	5/16-18 UNC x 1-1/4	BFX-301-J08-W66	
			5075	.39	.63	1.69	2.24	.69	1.50	1.61		.34	53.68				
13	1/2		350	12,3	16	43	57	17,5	38,1	41	7/8-14 (10)	8,7	24,2	M8x30	5/16-18 UNC x 1-1/4	BFX-301-J10-W66	
			5075	.48	.63	1.69	2.24	.69	1.50	1.61		.34	53.24				
19	3/4		350	15,5	18	50	67	22,3	47,6	49	1-1/16-12 (12)	10,5	42,2	M10x35	3/8-16 UNC x 1-1/2	BFX-302-J12-W66	
			5075	.61	.71	1.97	2.64	.88	1.87	1.93		.41	92.84				
25	1		345	21,5	18	54	72	26,2	52,4	52	1-5/16-12 (16)	10,5	48,8	M10x35	3/8-16 UNC x 1-1/2	BFX-303-J16-W66	
			5003	.85	.71	2.13	2.83	1.03	2.06	2.05		.41	107.36				
32	1-1/4		280	21,5	21	68	82	30,2	58,7	56	1-5/16-12 (16)	11,5 (13,5)	73,3	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-J16-W66	
			4061	.85	.83	2.68	3.23	1.19	2.31	2.20		.45 (.53)	161.26				
32	1-1/4		280	27,5	21	68	82	30,2	58,7	58	1-5/8-12 (20)	11,5 (13,5)	77,4	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX-304-J20-W66	
			4061	1.08	.83	2.68	3.23	1.19	2.31	2.28		.45 (.53)	170.28				
38	1-1/2		210	33	24	74	96	35,7	69,9	67	1-7/8-12 (24)	13,5 (14,5)	114,7	M12x45 (M14x45)	7/16-14 UNC x 1-3/4	BFX-305-J24-W66	
			3045	1.30	.94	2.91	3.78	1.41	2.75	2.64		.53 (.57)	252.34				

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

Nominal Size	DN	(in)	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)								T (UN/UNF)	ØK <sup>3</sup>	Weight for Bolts			Ordering Codes
				10.9	ØA	D	F	G	H	I	L			(kg/lbs) ca. per 100	Metric	UNC	
13	1/2		400	9,9	16	43	57	18,2	40,5	42	3/4-16 (08)	8,7	24,0	M8x30	5/16-18 UNC x 1-1/4	BFX-601-J08-W66	
			5800	.39	.63	1.69	2.24	.72	1.59	1.65		.34	52.80				
13	1/2		400	12,3	16	43	57	18,2	40,5	45	7/8-14 (10)	8,7	25,1	M8x30	5/16-18 UNC x 1-1/4	BFX-601-J10-W66	
			5800	.48	.63	1.69	2.24	.72	1.59	1.77		.34	55.22				
19	3/4		400	15,5	18	54	72	23,8	50,8	51	1-1/16-12 (12)	10,5	49,2	M10x35	3/8-16 UNC x 1-1/2	BFX-602-J12-W66	
			5800	.61	.71	2.13	2.83	.94	2.00	2.01		.41	108.24				
25	1		400	21,5	21	68	82	27,8	57,2	59	1-5/16-12 (16)	13	72,9	M12x40	1/2-13 UNC x 1-3/4	BFX-603-J16-W66 <sup>2</sup>	
			5800	.85	.83	2.68	3.23	1.09	2.25	2.32		.51	160.38				
32	1-1/4		400	21,5	24	75	95	31,6	66,6	64	1-5/16-12 (16)	13,5	107,0	M12x45	1/2-13 UNC x 1-3/4	BFX-604-J16-W66	
			5800	.85	.94	2.95	3.74	1.24	2.62	2.52		.53	235.40				
32	1-1/4		400	21,5	24	75	95	31,6	66,6	64	1-5/16-12 (16)	15	106,9	M14x45		BFX-604-J16-M14-W66	
			5800	.85	.94	2.95	3.74	1.24	2.62	2.52		.59	235.18				
32	1-1/4		400	27,5	24	75	95	31,6	66,6	66	1-5/8-12 (20)	13,5	106,9	M12x45	1/2-13 UNC x 1-3/4	BFX-604-J20-W66	
			5800	1.08	.94	2.95	3.74	1.24	2.62	2.60		.53	235.18				
32	1-1/4		400	27,5	24	75	95	31,6	66,6	66	1-5/8-12 (20)	15	111,7	M14x45		BFX-604-J20-M14-W66	
			5800	1.08	.94	2.95	3.74	1.24	2.62	2.60		.59	245.74				
38	1-1/2		400	33	27	84	108	36,5	79,3	73	1-7/8-12 (24)	17	160,6	M16x50	5/8-11 UNC x 2	BFX-605-J24-W66	
			5800	1.30	1.06	3.31	4.25	1.44	3.12	2.87		.67	353.32				

Please see Page 89 for separate Bolt Sets and Sealings.

**Materials / Ordering Options / Examples**

\* SAE Single-Part Flange (without O-ring) made of Steel S355J2 / C45 or equivalent, zinc-plated and thick-film-passivated

**BFX-...-J\*-W66**

\* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request)

**BFX-...-J\*-W5**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)

**BFX-...-J\*-W130-K**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)

**BFX-...-J\*-V-W130-K**

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

**BFX-...-J\*-U-W130-K**

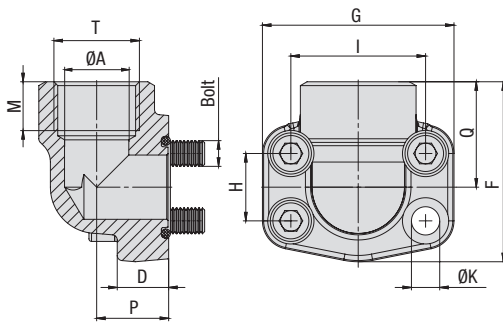
Please always indicate Thread Size.

<sup>1</sup> 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.

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

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE 90° Single-Part Flange with Female BSPP Thread  
Type BFX90-G • 3000 / 6000 PSI Series



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight ( <sup>kg</sup> /lbs) ca. per 100	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	D	F	G	H	I	M	P		Q	T (BSPP)		ØK <sup>3</sup>
13	1/2	350	13	16	60	54	17,5	38,1	19	20	37	1/2	8,7	31,3	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-G-W1
		5075	.51	.63	2.36	2.13	.69	1.50	.75	.79	1.46		.34	68.86			
13	1/2	350	13	16	60	54	17,5	38,1	19	20	37	3/8 (06)	8,7	30,5	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-G06-W1
		5075	.51	.63	2.36	2.13	.69	1.50	.75	.79	1.46		.34	67.10			
19	3/4	350	19	18	63	65	22,3	47,6	19	24	38	3/4	10,5	44,4	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-G-W1
		5075	.75	.71	2.48	2.56	.88	1.87	.75	.94	1.50		.41	97.68			
25	1	345	25	19	70	70	26,2	52,4	20	28	43	1	10,5	60,0	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-G-W1
		5003	.98	.75	2.76	2.76	1.03	2.06	.79	1.10	1.69		.41	132.00			
32	1-1/4	280	32	21	85	79	30,2	58,7	22	34	51	1-1/4	11,5 (13,5)	85,8	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX90-304-G-W1
		4061	1.26	.83	3.35	3.11	1.19	2.31	.87	1.34	2.01		.45 (.53)	188.76			
38	1-1/2	210	38	25	95	93	35,7	69,9	25	38	56	1-1/2	13,5 (14,5)	123,0	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-305-G-W1
		3045	1.50	.98	3.74	3.66	1.41	2.75	.98	1.50	2.20		.53 (.57)	270.60			
51	2	210	51	25	110	110	42,9	77,8	28	42	65	2	13,5 (14,5)	188,7	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-306-G-W1
		3045	2.01	.98	4.33	4.33	1.69	3.06	1.10	1.65	2.56		.53 (.57)	415.14			

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

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight ( <sup>kg</sup> /lbs) ca. per 100	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	D	F	G	H	I	M	P		Q	T (BSPP)		ØK
13	1/2	420	13	16	60	56	18,2	40,5	19	20	37	1/2	8,7	29,6	M8x30	5/16-18 UNC x 1-1/4	BFX90-601-G-W1
		6090	.51	.63	2.36	2.20	.72	1.59	.75	.79	1.46		.34	65.12			
13	1/2	420	13	16	60	56	18,2	40,5	19	20	37	3/8 (06)	8,7	30,2	M8x30	5/16-18 UNC x 1-1/4	BFX90-601-G06-W1
		6090	.51	.63	2.36	2.20	.72	1.59	.75	.79	1.46		.34	66.44			
19	3/4	420	19	19	70	72	23,8	50,8	20	28	43	3/4	10,5	70,8	M10x35	3/8-16 UNC x 1-1/2	BFX90-602-G-W1
		6090	.75	.75	2.76	2.83	.94	2.00	.79	1.10	1.69		.41	155.76			
25	1	420	25	21	85	79	27,8	57,2	22	34	51	1	13	109,3	M12x45	1/2-13 UNC x 1-3/4	BFX90-603-G-W1 <sup>2</sup>
		6090	.98	.83	3.35	3.11	1.09	2.25	.87	1.34	2.01		.51	240.46			
32	1-1/4	420	32	25	95	93	31,6	66,6	25	38	56	1-1/4	13,5	152,4	M12x45	1/2-13 UNC x 1-3/4	BFX90-604-G-W1
		6090	1.26	.98	3.74	3.66	1.24	2.62	.98	1.50	2.20		.53	335.28			
32	1-1/4	420	32	25	95	93	31,6	66,6	25	38	56	1-1/4	15	144,7	M14x45		BFX90-604-G-M14-W1
		6090	1.26	.98	3.74	3.66	1.24	2.62	.98	1.50	2.20		.59	318.34			
38	1-1/2	420	38	25	110	110	36,5	79,3	28	42	65	1-1/2	17	245,9	M16x50	5/8-11 UNC x 2	BFX90-605-G-W1
		6090	1.50	.98	4.33	4.33	1.44	3.12	1.10	1.65	2.56		.67	540.98			
51	2	420	51	35	132	134	44,5	96,8	33	45	75	2	21	364,3	M20x70	3/4-10 UNC x 2-3/4	BFX90-606-G-W1
		6090	2.01	1.38	5.20	5.28	1.75	3.81	1.30	1.77	2.95		.83	801.46			

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

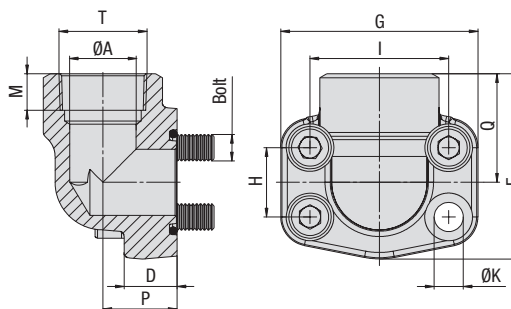
<sup>2</sup> For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

<sup>3</sup> Alternative options shown in brackets are available on request.

Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) BFX90-...-G-W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX90-...-G-W5
- \* Size of connection thread deviating from the standard (e.g. 1-1/4 BSPP) BFX90-...-G20-W1
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX90-...-G-W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX90-...-G-V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX90-...-G-U-W1-K

**SAE 90° Single-Part Flange with Female NPT Thread  
Type BFX90-N • 3000 / 6000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	D	F	G	H	I	M	P		Q	T (NPT)		ØK <sup>3</sup>
13	1/2	350	13	16	60	54	17,5	38,1	19	20	37	1/2	8,7	31,3	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-N-W1
		5075	.51	.63	2.36	2.13	.69	1.50	.75	.79	1.46	.34	68.86				
13	1/2	350	13	16	60	54	17,5	38,1	19	20	37	3/8 (06)	8,7	31,3	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-N06-W1
		5075	.51	.63	2.36	2.13	.69	1.50	.75	.79	1.46	.34	68.86				
19	3/4	350	19	18	63	65	22,3	47,6	19	24	38	3/4	10,5	47,1	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-N-W1
		5075	.75	.71	2.48	2.56	.88	1.87	.75	.94	1.50	.41	103.62				
25	1	345	25	19	70	70	26,2	52,4	20	28	43	1	10,5	58,2	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-N-W1
		5003	.98	.75	2.76	2.76	1.03	2.06	.79	1.10	1.69	.41	128.04				
32	1-1/4	280	32	21	85	79	30,2	58,7	22	34	51	1-1/4	11,5 (13,5)	87,9	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX90-304-N-W1
		4061	1.26	.83	3.35	3.11	1.19	2.31	.87	1.34	2.01	.45 (.53)	193.38				
38	1-1/2	210	38	25	95	93	35,7	69,9	25	38	56	1-1/2	13,5 (14,5)	126,2	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-305-N-W1
		3045	1.50	.98	3.74	3.66	1.41	2.75	.98	1.50	2.20	.53 (.57)	277.64				
51	2	210	51	25	110	110	42,9	77,8	28	42	65	2	13,5 (14,5)	189,0	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-306-N-W1
		3045	2.01	.98	4.33	4.33	1.69	3.06	1.10	1.65	2.56	.53 (.57)	415.80				

Please see Page 89 for separate Bolt Sets and Sealings.

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

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	D	F	G	H	I	M	P		Q	T (NPT)		ØK
13	1/2	420	13	16	60	56	18,2	40,5	19	20	37	1/2	8,7	30,0	M8x30	5/16-18 UNC x 1-1/4	BFX90-601-N-W1
		6090	.51	.63	2.36	2.20	.72	1.59	.75	.79	1.46	.34	66.00				
13	1/2	420	13	16	60	56	18,2	40,5	19	20	37	3/8 (06)	8,7	30,0	M8x30	5/16-18 UNC x 1-1/4	BFX90-601-N06-W1
		6090	.51	.63	2.36	2.20	.72	1.59	.75	.79	1.46	.34	66.00				
19	3/4	420	19	19	70	72	23,8	50,8	20	28	43	3/4	10,5	66,6	M10x35	3/8-16 UNC x 1-1/2	BFX90-602-N-W1
		6090	.75	.75	2.76	2.83	.94	2.00	.79	1.10	1.69	.41	146.52				
25	1	420	25	21	85	79	27,8	57,2	22	34	51	1	13	109,0	M12x45	1/2-13 UNC x 1-3/4	BFX90-603-N-W1 <sup>2</sup>
		6090	.98	.83	3.35	3.11	1.09	2.25	.87	1.34	2.01	.51	239.80				
32	1-1/4	420	32	25	95	93	31,6	66,6	25	38	56	1-1/4	13,5	145,0	M12x45	1/2-13 UNC x 1-3/4	BFX90-604-N-W1
		6090	1.26	.98	3.74	3.66	1.24	2.62	.98	1.50	2.20	.53	319.00				
32	1-1/4	420	32	25	95	93	31,6	66,6	25	38	56	1-1/4	15	150,4	M14x45		BFX90-604-N-M14-W1
		6090	1.26	.98	3.74	3.66	1.24	2.62	.98	1.50	2.20	.59	330.88				
38	1-1/2	420	38	25	110	110	36,5	79,3	28	42	65	1-1/2	17	246,0	M16x50	5/8-11 UNC x 2	BFX90-605-N-W1
		6090	1.50	.98	4.33	4.33	1.44	3.12	1.10	1.65	2.56	.67	541.20				
51	2	420	51	35	132	134	44,5	96,8	33	45	75	2	21	364,0	M20x70	3/4-10 UNC x 2-3/4	BFX90-606-N-W1
		6090	2.01	1.38	5.20	5.28	1.75	3.81	1.30	1.77	2.95	.83	800.80				

Please see Page 89 for separate Bolt Sets and Sealings.

**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-...-N-W1**  
**BFX90-...-N-W5**

- \* Size of connection thread deviating from the standard (e.g. 3/8 NPT)

**BFX90-...-N06-W1**

- \* 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®)

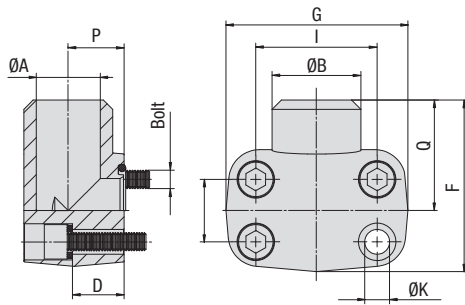
**BFX90-...-N-W1-K**  
**BFX90-...-N-V-W1-K**  
**BFX90-...-N-U-W1-K**

<sup>1</sup> 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.

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

<sup>3</sup> Alternative options shown in brackets are available on request.

SAE 90° Single-Part Butt-Weld Flange for High Pressure Tubes  
Type BFX90-STC - 3000 / 6000 PSI Series



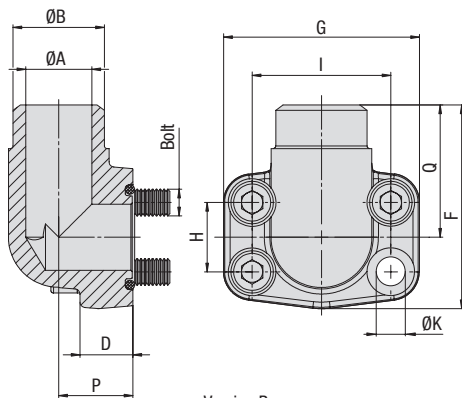
Version A



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) ca. per 100	for Bolts Metric	Version	Ordering Codes
DN	(in)	10.9	ØA	ØB	D	F	G	H	I	P	Q	ØK				
19	3/4	350	19	27	21	63	70	22,3	47,6	23	41	11	73,5	M10x40	A	BFX90-302-STC-27/19-W1 <sup>2</sup>
		5075	.75	1.06	.83	2.48	2.76	.88	1.87	.91	1.61	.43	161.70			
25	1	345	23	34,5	24	72	75	26,2	52,4	25	48	11	85,0	M10x45	A	BFX90-303-STC-34.5/23-W1 <sup>3</sup>
		5003	.91	1.36	.94	2.83	2.95	1.03	2.06	.98	1.89	.43	187.00			
32	1-1/4	280	31	43	25	82	86	30,2	58,7	27	54	11,5	80,0	M10x45	A	BFX90-304-STC-43/31-W1
		4061	1.22	1.69	.98	3.23	3.39	1.19	2.31	1.06	2.13	.45	176.00			
38	1-1/2	210	35	50	29	92	97	35,7	69,9	31,5	57	14	189,4	M12x50	A	BFX90-305-STC-50/35-W1
		3045	1.38	1.97	1.14	3.62	3.82	1.41	2.75	1.24	2.24	.55	416.68			
51	2	210	48	65	50	99	100	42,9	77,8	37,5	63	14	214,8	M12x70	A	BFX90-306-STC-65/48-W1
		3045	1.89	2.56	1.97	3.90	3.94	1.69	3.06	1.48	2.48	.55	472.56			

Please see Page 89 for separate Bolt Sets and Sealings.



Version B



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

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)										Weight (kg/lbs) ca. per 100	for Bolts Metric	Version	Ordering Codes
DN	(in)	10.9	ØA	ØB	D	F	G	H	I	P	Q	ØK				
19	3/4	420	19	28	19	70	71	23,8	50,8	22	40	11	50,1	M10x35	B	BFX90-602-STC-28/19-W1
		6090	.75	1.10	.75	2.76	2.80	.94	2.00	.87	1.57	.43	110.22			
25	1	420	25	34	24	82	81	27,8	57,2	27	47	13	77,2	M12x45	B	BFX90-603-STC-34/25-W1
		6090	.98	1.34	.94	3.23	3.19	1.09	2.25	1.06	1.85	.51	169.84			
32	1-1/4	420	32	42	27	95	95	31,8	66,6	32	56	15	119,6	M14x50	B	BFX90-604-STC-42/32-M14-W1
		6090	1.26	1.65	1.06	3.74	3.74	1.25	2.62	1.26	2.20	.59	263.12			
38	1-1/2	420	38	48	30	115	113	36,5	79,3	40	68	17	193,7	M16x50	B	BFX90-605-STC-48/38-W1
		6090	1.50	1.89	1.18	4.53	4.45	1.44	3.12	1.57	2.68	.67	426.14			

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

<sup>2</sup> Deviant O-ring size: 25,07 x 2,62 mm / .99 x .10 in

<sup>3</sup> Deviant O-ring size: 28,17 x 3,53 mm / 1.11 x .14 in

Materials / Ordering Options / Examples

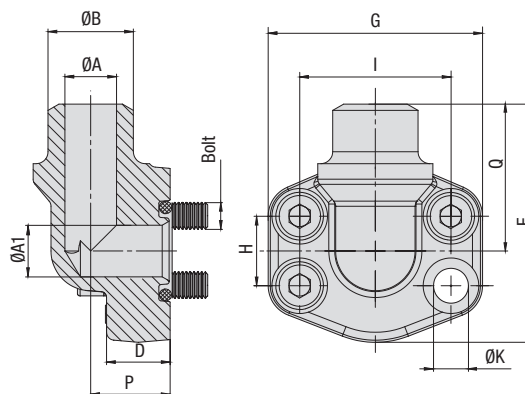
\* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) **BFX90-...-STC-\*/\*\*-W1**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX90-...-STC-\*/\*\*-W1-K**

\* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) **BFX90-...-STC-V-\*/\*\*-W1-K**

Please always indicate ØB / ØA.

**SAE 90° Single-Part Butt-Weld Flange for Metric Tubes  
Type BFX90-SRE • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)													Weight (kg/lbs) ca. per 100	for Bolts			Ordering Codes
		DN	(in)	10.9	ØA	ØA1	ØB	D	F	G	H	I	P	Q		ØK <sup>3</sup>	Metric <sup>3</sup>	UNC	
13	1/2	350	14	13	20	16	60	54	17,5	38,1	20	37	8,7	26,9	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-SRE-20/14-W1		
		5075	.55	.51	.79	.63	2.36	2.13	.69	1.50	.79	1.46	.34	59.18					
13	1/2	350	18	13	22	16	60	54	17,5	38,1	20	37	8,7	27,5	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-SRE-22/18-W1		
		5075	.71	.51	.87	.63	2.36	2.13	.69	1.50	.79	1.46	.34	60.50					
13	1/2	350	19	13	25	16	60	54	17,5	38,1	20	37	8,7	28,0	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-SRE-25/19-W1		
		5075	.75	.51	.98	.63	2.36	2.13	.69	1.50	.79	1.46	.34	61.60					
19	3/4	350	19	19	25	18	63	65	22,3	47,6	24	38	10,5	40,6	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-SRE-25/19-W1		
		5075	.75	.75	.98	.71	2.48	2.56	.88	1.87	.94	1.50	.41	89.32					
19	3/4	350	22	19	28	18	63	65	22,3	47,6	24	38	10,5	39,0	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-SRE-28/22-W1		
		5075	.87	.75	1.10	.71	2.48	2.56	.88	1.87	.94	1.50	.41	85.80					
19	3/4	350	22	19	30	18	63	65	22,3	47,6	24	38	10,5	40,0	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-SRE-30/22-W1		
		5075	.87	.75	1.18	.71	2.48	2.56	.88	1.87	.94	1.50	.41	88.00					
19	3/4	350	27	19	35	18	63	65	22,3	47,6	24	38	10,5	42,0	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-SRE-35/27-W1		
		5075	1.06	.75	1.38	.71	2.48	2.56	.88	1.87	.94	1.50	.41	92.40					
25	1	345	22	25	30	19	70	70	26,2	52,4	28	43	10,5	56,5	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-SRE-30/22-W1		
		5003	.87	.98	1.18	.75	2.76	2.76	1.03	2.06	1.10	1.69	.41	124.30					
25	1	345	27	25	35	19	70	70	26,2	52,4	28	43	10,5	53,3	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-SRE-35/27-W1		
		5003	1.06	.98	1.38	.75	2.76	2.76	1.03	2.06	1.10	1.69	.41	117.26					
25	1	345	30	25	38	19	70	70	26,2	52,4	28	43	10,5	55,9	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-SRE-38/30-W1		
		5003	1.18	.98	1.50	.75	2.76	2.76	1.03	2.06	1.10	1.69	.41	122.98					
25	1	345	36	25	42	19	70	70	26,2	52,4	28	43	10,5	51,8	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-SRE-42/36-W1		
		5003	1.42	.98	1.65	.75	2.76	2.76	1.03	2.06	1.10	1.69	.41	113.96					
32	1-1/4	280	30	32	38	21	85	79	30,2	58,7	34	51	11,5 (13,5)	79,2	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX90-304-SRE-38/30-W1		
		4061	1.18	1.26	1.50	.83	3.35	3.11	1.19	2.31	1.34	2.01	.45 (.53)	174.24					
32	1-1/4	280	36	32	42	21	85	79	30,2	58,7	34	51	11,5 (13,5)	78,3	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX90-304-SRE-42/36-W1		
		4061	1.42	1.26	1.65	.83	3.35	3.11	1.19	2.31	1.34	2.01	.45 (.53)	172.26					
32	1-1/4	280	39	32	49	21	85	79	30,2	58,7	34	51	11,5 (13,5)	82,5	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX90-304-SRE-49/39-W1		
		4061	1.54	1.26	1.93	.83	3.35	3.11	1.19	2.31	1.34	2.01	.45 (.53)	181.50					
38	1-1/2	210	30	38	38	25	95	93	35,7	69,9	38	56	13,5 (14,5)	135,0	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-305-SRE-38/30-W1		
		3045	1.18	1.50	1.50	.98	3.74	3.66	1.41	2.75	1.50	2.20	.53 (.57)	297.00					
38	1-1/2	210	36	38	42	25	95	93	35,7	69,9	38	56	13,5 (14,5)	124,1	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-305-SRE-42/36-W1		
		3045	1.42	1.50	1.65	.98	3.74	3.66	1.41	2.75	1.50	2.20	.53 (.57)	273.02					
38	1-1/2	210	39	38	49	25	95	93	35,7	69,9	38	56	13,5 (14,5)	134,4	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-305-SRE-49/39-W1		
		3045	1.54	1.50	1.93	.98	3.74	3.66	1.41	2.75	1.50	2.20	.53 (.57)	295.68					
51	2	210	49	51	61	25	110	110	42,9	77,8	42	65	13,5 (14,5)	199,7	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-306-SRE-61/49-W1		
		3045	1.93	2.01	2.40	.98	4.33	4.33	1.69	3.06	1.65	2.56	.53 (.57)	439.34					

Please see Page 89 for separate Bolt Sets and Sealings.

**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-...-SRE-\*\*-\*\*/W1**  
**BFX90-...-SRE-\*\*-\*\*/W5**

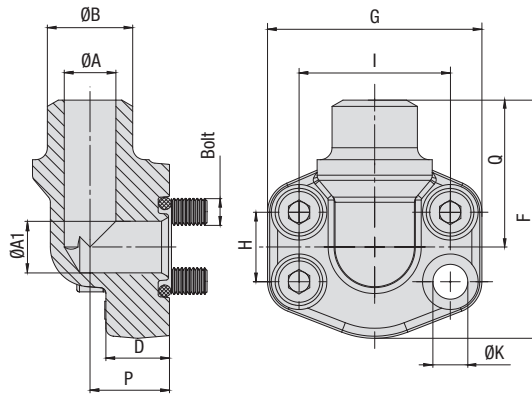
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®)

**BFX90-...-SRE-\*\*-\*\*/W1-K**  
**BFX90-...-SRE-\*\*-\*\*/V-W1-K**  
**BFX90-...-SRE-\*\*-\*\*/U-W1-K**

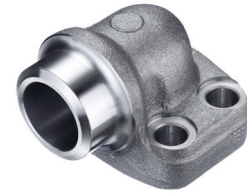
Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.



SAE 90° Single-Part Butt-Weld Flange for Metric Tubes  
Type BFX90-SRE - 6000 PSI Series



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

C

Nominal Size	PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight ( <sup>kg</sup> /lbs) ca.	for Bolts		Ordering Codes	
		DN	(in)	10.9	ØA	ØA1	ØB	D	F	G	H	I		P	Q		ØK
13	1/2	420	14	13	20	16	60	54	18,2	40,5	20	37	8,7	26,6	M8x30	5/16-18 UNC x 1-1/4	BFX90-601-SRE-20/14-W1
		6090	.55	.51	.79	.63	2.36	2.13	.72	1.59	.79	1.46	.34	58.52			
13	1/2	420	17	13	25	16	60	54	18,2	40,5	20	37	8,7	28,3	M8x30	5/16-18 UNC x 1-1/4	BFX90-601-SRE-25/17-W1
		6090	.67	.51	.98	.63	2.36	2.13	.72	1.59	.79	1.46	.34	62.26			
19	3/4	420	17	19	25	19	70	72	23,8	50,8	28	43	10,5	62,2	M10x35	3/8-16 UNC x 1-1/2	BFX90-602-SRE-25/17-W1
		6090	.67	.75	.98	.75	2.76	2.83	.94	2.00	1.10	1.69	.41	136.84			
19	3/4	420	22	19	30	19	70	72	23,8	50,8	28	43	10,5	60,6	M10x35	3/8-16 UNC x 1-1/2	BFX90-602-SRE-30/22-W1
		6090	.87	.75	1.18	.75	2.76	2.83	.94	2.00	1.10	1.69	.41	133.32			
25	1	420	22	25	30	21	85	79	27,8	57,2	34	51	13,5	94,4	M12x45	7/16-14 UNC x 1-3/4	BFX90-603-SRE-30/22-W1 <sup>2</sup>
		6090	.87	.98	1.18	.83	3.35	3.11	1.09	2.25	1.34	2.01	.53	207.68			
25	1	420	28	25	38	21	85	79	27,8	57,2	34	51	13,5	90,9	M12x45	7/16-14 UNC x 1-3/4	BFX90-603-SRE-38/28-W1 <sup>2</sup>
		6090	1.10	.98	1.50	.83	3.35	3.11	1.09	2.25	1.34	2.01	.53	199.98			
32	1-1/4	420	28	32	38	25	95	93	31,8	66,6	38	56	13,5	139,0	M12x45	1/2-13 UNC x 1-3/4	BFX90-604-SRE-38/28-W1
		6090	1.10	1.26	1.50	.98	3.74	3.66	1.25	2.62	1.50	2.20	.53	305.80			
32	1-1/4	420	28	32	38	25	95	93	31,8	66,6	38	56	15	138,6	M14x45		BFX90-604-SRE-38/28-M14-W1
		6090	1.10	1.26	1.50	.98	3.74	3.66	1.25	2.62	1.50	2.20	.59	304.92			
32	1-1/4	420	32	32	49	25	95	93	31,8	66,6	38	56	13,5	145,0	M12x45	1/2-13 UNC x 1-3/4	BFX90-604-SRE-49/32 -W1
		6090	1.26	1.26	1.93	.98	3.74	3.66	1.25	2.62	1.50	2.20	.53	319.00			
32	1-1/4	420	32	32	49	25	95	93	31,8	66,6	38	56	15	146,0	M14x45		BFX90-604-SRE-49/32-M14-W1
		6090	1.26	1.26	1.93	.98	3.74	3.66	1.25	2.62	1.50	2.20	.59	321.20			
38	1-1/2	420	28	38	38	25	110	110	36,5	79,3	42	65	17	240,3	M16x50	5/8-11 UNC x 2	BFX90-605-SRE-38/28-W1
		6090	1.10	1.50	1.50	.98	4.33	4.33	1.44	3.12	1.65	2.56	.67	528.66			
38	1-1/2	420	32	38	49	25	110	110	36,5	79,3	42	65	17	241,1	M16x50	5/8-11 UNC x 2	BFX90-605-SRE-49/32-W1
		6090	1.26	1.50	1.93	.98	4.33	4.33	1.44	3.12	1.65	2.56	.67	530.42			
38	1-1/2	420	40	38	61	25	110	110	36,5	79,3	42	65	17	236,2	M16x50	5/8-11 UNC x 2	BFX90-605-SRE-61/40-W1
		6090	1.57	1.50	2.40	.98	4.33	4.33	1.44	3.12	1.65	2.56	.67	519.64			
51	2	420	40	51	61	35	132	134	44,5	96,8	45	75	21	374,6	M20x70	3/4-10 UNC x 2-3/4	BFX90-606-SRE-61/40-W1
		6090	1.57	2.01	2.40	1.38	5.20	5.28	1.75	3.81	1.77	2.95	.83	824.12			
51	2	420	50	51	76	35	132	134	44,5	96,8	45	75	21	387,4	M20x70	3/4-10 UNC x 2-3/4	BFX90-606-SRE-76/50-W1
		6090	1.97	2.01	2.99	1.38	5.20	5.28	1.75	3.81	1.77	2.95	.83	852.28			

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

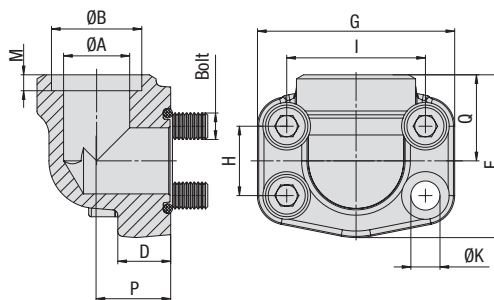
<sup>2</sup> For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) **BFX90-...-SRE-\*/\*\*/W1**
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A - 1.4404 (on request) **BFX90-...-SRE-\*/\*\*/W5**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX90-...-SRE-\*/\*\*/W1-K**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) **BFX90-...-SRE-\*/\*\*/V-W1-K**
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) **BFX90-...-SRE-\*/\*\*/U-W1-K**

Please always indicate ØB / ØA.

**SAE 90° Single-Part Socket-Weld Flange  
Type BFX90-ES ▪ 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)											Weight for Bolts (kg/lbs) ca.			Ordering Codes
DN	(in)	10.9	ØA	ØB	D	F	G	H	I	M	P	Q	ØK <sup>3</sup>	per 100	Metric <sup>3</sup>	UNC	
13	1/2	350	13	21,6	16	60	54	17,5	38,1	10	20	37	8,7	30,5	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-ES-21.6/13-W1
		5075	.51	.85	.63	2.36	2.13	.69	1.50	.39	.79	1.46	.34	67.10			
13	1/2	350	13	17,5	16	60	54	17,5	38,1	10	20	37	8,7	31,1	M8x30	5/16-18 UNC x 1-1/4	BFX90-301-ES-17.5/13-W1
		5075	.51	.69	.63	2.36	2.13	.69	1.50	.39	.79	1.46	.34	68.42			
19	3/4	350	19	27,2	18	63	65	22,3	47,6	10	24	38	10,5	45,3	M10x35	3/8-16 UNC x 1-1/2	BFX90-302-ES-27.2/19-W1
		5075	.75	1.07	.71	2.48	2.56	.88	1.87	.39	.94	1.50	.41	99.66			
25	1	345	25	34	19	70	70	26,2	52,4	12	28	43	10,5	57,9	M10x35	3/8-16 UNC x 1-1/2	BFX90-303-ES-34/25-W1
		5003	.98	1.34	.75	2.76	2.76	1.03	2.06	.47	1.10	1.69	.41	127.38			
32	1-1/4	280	32	42,8	21	85	79	30,2	58,7	14	34	51	11,5 (13,5)	91,2	M10x40 (M12x40)	7/16-14 UNC x 1-1/2	BFX90-304-ES-42.8/32-W1
		4061	1.26	1.69	.83	3.35	3.11	1.19	2.31	.55	1.34	2.01	.45 (.53)	200.64			
38	1-1/2	210	38	48,6	25	95	93	35,7	69,9	16	38	56	13,5 (14,5)	129,2	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-305-ES-48.6/38-W1
		3045	1.50	1.91	.98	3.74	3.66	1.41	2.75	.63	1.50	2.20	.53 (.57)	284.24			
51	2	210	51	61	25	110	110	42,9	77,8	18	42	65	13,5 (14,5)	193,9	M12x45 (M14x45)	1/2-13 UNC x 1-3/4	BFX90-306-ES-61/51-W1
		3045	2.01	2.40	.98	4.33	4.33	1.69	3.06	.71	1.65	2.56	.53 (.57)	426.58			

Please see Page 89 for separate Bolt Sets and Sealings.

**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®)

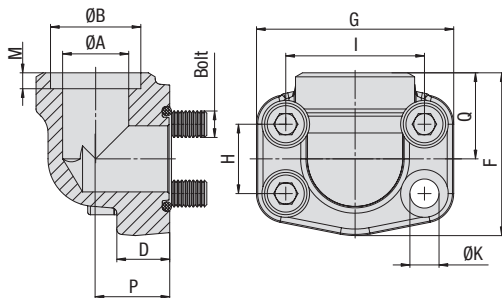
**BFX90-...-ES-\*\*-\*\*/W1-K**  
**BFX90-...-ES-\*\*-\*\*/V-W1-K**  
**BFX90-...-ES-\*\*-\*\*/U-W1-K**

Please always indicate ØB / ØA.

<sup>1</sup> 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.

<sup>3</sup> Alternative options shown in brackets are available on request.

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 <sup>1</sup> (bar/PSI)	Dimensions (mm/in)													Weight (kg/lbs) ca. per 100	for Bolts		Ordering Codes
		DN	(in)	10.9	ØA	ØB	D	F	G	H	I	M	P	Q		ØK	Metric	
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 <sup>2</sup>	
		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 <sup>2</sup>	
		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.

<sup>1</sup> 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.

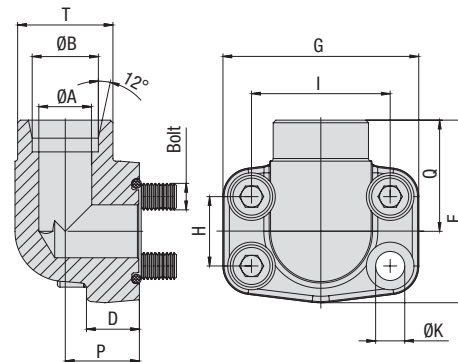
<sup>2</sup> For UNC threaded bolts, use hexagon head bolts only. Please note that these do not belong to our product range.

Materials / Ordering Options / Examples

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 or equivalent, blank (oiled) BFX90-...-ES-\*/\*\*/W1
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX90-...-ES-\*/\*\*/W5
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX90-...-ES-\*/\*\*/W1-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX90-...-ES-\*/\*\*/V-W1-K
- \* Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®) BFX90-...-ES-\*/\*\*/U-W1-K

Please always indicate ØB / ØA.

**SAE 90° Single-Part Flange with Male Metric Thread and 24° Conical Bore (acc. to ISO 8434-1) • Type BFX90-L/S • 3000 PSI Series**



3000 PSI Standard Pressure Series (based on ISO 6162-1:2012)

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)			Series	D	F	G	H	I	P	Q	T (Metric)	ØK	Weight (kg/lbs) ca. per 100	for Bolts Metric	Ordering Codes
DN	(in)	10.9	ØA	ØB														
13	1/2	315	11	15	L	16	60	54	17,5	38,1	18	36	22x1,5	9	31,3	M8x30	BFX90-301-15L-W66	
		4568	.43	.59		.63	2.36	2.13	.69	1.50	.71	1.42	.35	68.86				
13	1/2	350	12	16	S	16	60	54	17,5	38,1	18	36	24x1,5	9	29,4	M8x30	BFX90-301-16S-W66	
		5075	.47	.63		.63	2.36	2.13	.69	1.50	.71	1.42	.35	64.68				
19	3/4	350	12	16	S	18	63	65	22,3	47,6	22	38	24x1,5	11	29,5	M10x35	BFX90-302-16S-W66	
		5075	.47	.63		.71	2.48	2.56	.88	1.87	.87	1.50	.43	64.90				
19	3/4	350	16	20	S	18	63	65	22,3	47,6	22	38	30x2	11	43,8	M10x35	BFX90-302-20S-W66	
		5075	.63	.79		.71	2.48	2.56	.88	1.87	.87	1.50	.43	96.36				
19	3/4	250	18	22	L	18	63	65	22,3	47,6	22	38	30x2	11	43,1	M10x35	BFX90-302-22L-W66	
		3626	.71	.87		.71	2.48	2.56	.88	1.87	.87	1.50	.43	94.82				
25	1	345	20	25	S	19	70	70	26,2	52,4	28	42	36x2	11	62,5	M10x35	BFX90-303-25S-W66	
		5003	.79	.98		.75	2.76	2.76	1.03	2.06	1.10	1.65	.43	137.50				
25	1	250	23	28	L	19	70	70	26,2	52,4	28	42	36x2	11	63,4	M10x35	BFX90-303-28L-W66	
		3626	.91	1.10		.75	2.76	2.76	1.03	2.06	1.10	1.65	.43	139.48				
32	1-1/4	280	20	25	S	22	85	79	30,2	58,7	30	50	36x2	11,5	109,1	M10x40	BFX90-304-25S-W66	
		4061	.79	.98		.87	3.35	3.11	1.19	2.31	1.18	1.97	.45	240.02				
32	1-1/4	280	25	30	S	22	85	79	30,2	58,7	30	50	42x2	11,5	103,4	M10x40	BFX90-304-30S-W66	
		4061	.98	1.18		.87	3.35	3.11	1.19	2.31	1.18	1.97	.45	227.48				
32	1-1/4	280	30	35	L	22	85	79	30,2	58,7	30	50	45x2	11,5	89,9	M10x40	BFX90-304-35L-W66	
		4061	1.18	1.38		.87	3.35	3.11	1.19	2.31	1.18	1.97	.45	197.78				
38	1-1/2	210	32	38	S	25	95	93	35,7	69,8	36	58	52x2	13,5	151,6	M12x45	BFX90-305-38S-W66	
		3045	1.26	1.50		.98	3.74	3.66	1.41	2.75	1.42	2.28	.53	333.52				
38	1-1/2	210	36	42	L	25	95	93	35,7	69,8	36	58	52x2	13,5	141,3	M12x45	BFX90-305-42L-W66	
		3045	1.42	1.65		.98	3.74	3.66	1.41	2.75	1.42	2.28	.53	310.96				

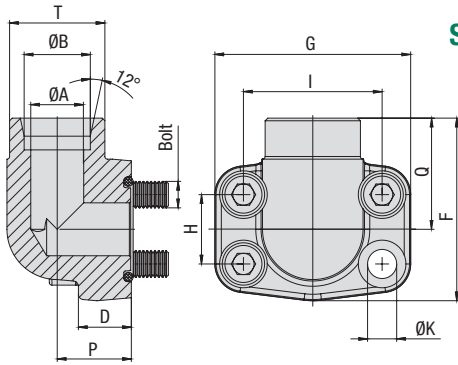
Please see Page 89 for separate Bolt Sets and Sealings.

**Materials / Ordering Options / Examples**

- \* SAE Single-Part Flange (without O-ring) made of Steel S355J2 / C45 or equivalent, zinc-plated and thick-film-passivated **BFX90-...-...-W66**
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) **BFX90-...-...-W5**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) **BFX90-...-...-W130-K**
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) **BFX90-...-...-V-W130-K**

Please always indicate ØB and Series.

<sup>1</sup> 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.


**SAE 90° Single-Part Flange with Male Metric Thread and 24° Conical Bore  
(acc. to ISO 8434-1) ▪ Type BFX90-L/S ▪ 6000 PSI Series**


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

Nominal Size		PN <sup>1</sup> (bar/PSI)	Dimensions (mm/in)		Series											Weight (kg/lbs) ca.		for Bolts		Ordering Codes
DN	(in)	10.9	ØA	ØB		D	F	G	H	I	P	Q	T (Metric)	ØK	per 100	Metric				
13	1/2	420	12	16	S	16	60	54	18,2	40,5	20	36	24x1,5	9	29,8	M8x30	BFX90-601-16S-W66			
		6090	.47	.63		.63	2.36	2.13	.72	1.59	.79	1.42		.35	65.56					
19	3/4	420	12	16	S	19	70	72	23,8	50,8	26	41	24x1,5	11	64,3	M10x35	BFX90-602-16S-W66			
		6090	.47	.63		.75	2.76	2.83	.94	2.00	1.02	1.61		.43	141.46					
19	3/4	400	20	20	S	19	70	72	23,8	50,8	26	41	30x2	11	66,5	M10x35	BFX90-602-20S-W66			
		5800	.79	.79		.75	2.76	2.83	.94	2.00	1.02	1.61		.43	146.30					
25	1	400	20	25	S	24	85	79	27,8	57,2	30	50	36x2	13	106,3	M12x40	BFX90-603-25S-W66 <sup>2</sup>			
		5800	.79	.98		.94	3.35	3.11	1.09	2.25	1.18	1.97		.51	233.86					
32	1-1/4	400	25	30	S	25	95	93	31,8	66,6	36	58	42x2	15	159,5	M14x45	BFX90-604-30S-M14-W66			
		5800	.98	1.18		.98	3.74	3.66	1.25	2.62	1.42	2.28		.59	350.90					
38	1-1/2	400	32	38	S	26	110	110	36,5	79,3	41	65	52x2	17	240,2	M16x50	BFX90-605-38S-W66			
		5800	1.26	1.50		1.02	4.33	4.33	1.44	3.12	1.61	2.56		.67	528.44					

Please see Page 89 for separate Bolt Sets and Sealings.

<sup>1</sup> 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.

<sup>2</sup> 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 / C45 or equivalent, zinc-plated and thick-film-passivated BFX90-...-...-W66
- \* SAE Single-Part Flange (without O-ring) made of Stainless Steel V4A – 1.4404 (on request) BFX90-...-...-W5
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®) BFX90-...-...-W130-K
- \* Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®) BFX90-...-...-V-W130-K

Please always indicate ØB and Series.