

HYDRAULIC FLANGE & FITTINGS

- Hydraulic SAE Flanges and Couplings
- Carbon Steel
- Code 61 & Code 62
- Threaded and Weld Flanges



FOR ALL TECHNICAL SPECIFICATION OR DRAWINGS PLEASE
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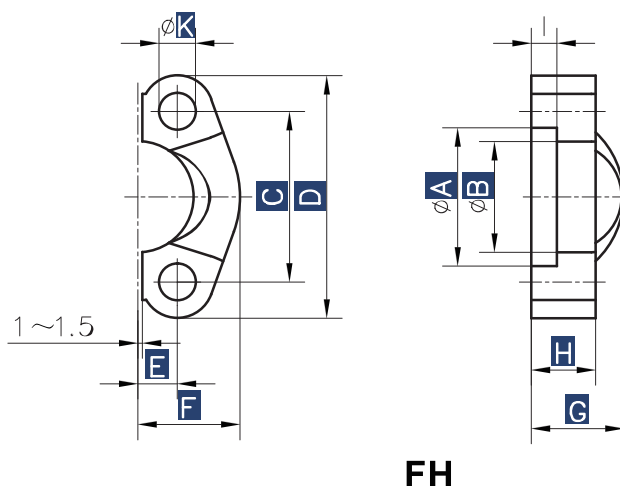
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Technical information

Tech Hydro flange products based on the standard: SAE J518, JB/ZQ4187, ISO6162, ISO6164.

- Working pressure: The maximum recommended working pressure is indicated in each single article. All pressure indications are based on a working temperature from -20°C to +90°C.
- Material: Material of the flange parts is indicated in each single article, normally C45 is used for non-welding flange parts and fittings, and Q345B or C20 is used for welding flange parts, For stainless steel flange parts, we have two series, one is made from AISI304/321, another one is made from AISI316L .
- Surface protection: Normally we have three kinds of surface protection for flange parts and fittings, these are Cr+3 white zinked (CFX) , Ni-Zn zinked (ZN) and blank oiled. The surface protection of parts normally delivered is indicated in each single article for choice.
- Bolts used: As far as required flange parts connection can be supplied with bolts, normally bolts used are high tension grade 10.9/12.9 (DIN912-10.9/12.9) with the black surface, and also bolts with zink surface of DIN912-8.8 can be supplied if need.
- Sealing: Flange parts in our catalogue are sealing with O-ring, bonded seal available for some parts, normally in material buna 90 shore, viton 90 shore is optional.

SAE SPLIT FLANGE HALVES



Material

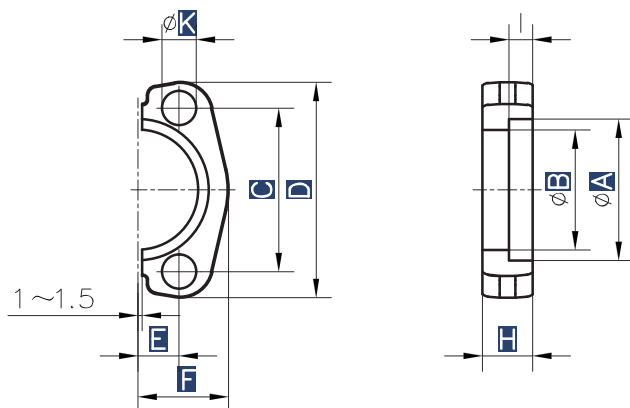
- carbon steel C45
Cr+3 white zinked: FH***-CFX
Ni-Zn zinked : FH***-ZN
- AISI 321/304 : FH***-X
- AISI 316L : FH***-XX

Size (inch)	Type	dimension										bolt		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	K	M	unc		
3000 psi															
1/2"	FH301	31.00	24.30	38.10	54	8.74	23	19	13	6.20	8.5	M8	5/16	0.064	345
3/4"	FH302	38.90	32.10	47.63	65	11.11	26	22	14.3	6.20	10.5	M10	3/8	0.088	345
1"	FH303	45.25	38.80	52.37	70	13.09	29.5	24	16	7.50	10.5	M10	3/8	0.110	345
1 1/4"	FH304*	51.60	43.70	58.72	79	15.09	36.5	22	14	7.50	10.5	M10	---	0.158	276
1 1/4"	FH304U*	51.60	43.70	58.72	79	15.09	36.5	22	14	7.50	12	---	7/16	0.153	276
1 1/4"	FH304-12*	51.60	43.70	58.72	79	15.09	36.5	22	14	7.50	12.5	M12	---	0.150	276
1 1/4"	FH304-12-6	51.60	43.70	58.72	79	15.09	36.5	33	24	7.50	12.5	M12	---	0.244	414
1 1/2"	FH305**	61.10	50.80	69.85	94	17.86	41.5	25	16	7.50	13.5	M12	1/2	0.232	207
1 1/2"	FH305-6	61.10	50.80	69.85	94	17.86	41.5	37	27	7.50	13.5	M12	---	0.380	414
2"	FH306**	72.25	62.75	77.77	102	21.44	48.5	26	16	9.00	13.5	M12	1/2	0.265	207
2"	FH306-6	72.25	62.75	77.77	102	21.44	48.5	43	30	9.00	13.5	M12	---	0.492	414
2"	FH306-14	72.25	62.75	77.77	102	21.44	48.5	26	16	9.00	14.5	M14	---	0.257	207
2 1/2"	FH307	84.95	74.95	88.90	114	25.40	54	38	19	9.00	13.5	M12	1/2	0.415	160
3"	FH308	102.40	90.95	106.38	135	30.96	65.5	41	22	9.00	17	M16	5/8	0.660	138
3 1/2"	FH309	115.10	102.40	120.65	152	34.93	70	28	22	10.70	17	M16	5/8	0.629	35
4"	FH310	127.80	115.10	130.18	162	38.89	76	35	25	10.70	17	M16	5/8	0.821	35
5"	FH311	153.20	140.50	152.40	184	46.04	90.5	41	28	10.70	17	M16	5/8	1.169	35
6000 psi															
1/2"	FH601	32.55	24.65	40.49	56	9.12	24	22	16	7.20	8.5	M8	5/16	0.085	414
3/4"	FH602	42.10	32.50	50.80	71	11.90	30	28	19	8.25	10.5	M10	3/8	0.165	414
1"	FH603U	48.40	38.90	57.15	81	13.88	35	33	24	9.00	12	---	7/16	0.268	414
1"	FH603	48.40	38.90	57.15	81	13.88	35	33	24	9.00	13	M12	---	0.257	414
1 1/4"	FH604-12	54.80	44.50	66.68	95	15.88	39	38	27	9.80	13.5	M12	1/2	0.407	414
1 1/4"	FH604	54.80	44.50	66.68	95	15.88	39	38	27	9.80	14.5	M14	---	0.396	414
1 1/2"	FH605	64.30	51.60	79.38	113	18.25	47.5	43	30	12.00	17	M16	5/8	0.666	414
2"	FH606	80.20	67.60	96.82	133	22.23	57	52	37	12.00	21	M20	3/4	1.031	414
2 1/2"	FH607	108.90	90.50	123.83	180	29.36	76	45	45	20.00	26	M24	---	2.121	414
3"	FH608	132.50	115.0	152.40	215	35.71	99	55	55	25.00	32	M30	---	3.876	414

* For these parts H=16 also can be supplied.

** For these parts H=19 also can be supplied.

SAE SPLIT FLANGE HALVES-FLAT



HF

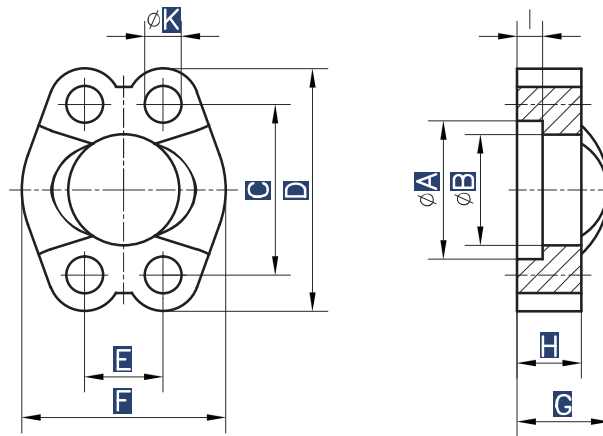
Material

carbon steel C60

Cr+3 white zinked:HF***-CFX

Ni-Zn zinked :HF***-ZN

Size (inch)	Type	dimension									bolt		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	H	I	K	M	unc		
3000 psi														
1/2"	HF301	31.00	24.30	38.10	54	8.74	23	13	6.20	9	M8	5/16	0.064	345
3/4"	HF302	38.90	32.15	47.63	65	11.11	26	14	6.20	11	M10	3/8	0.077	345
1"	HF303	45.25	38.80	52.37	70	13.09	29.5	16	7.50	11	M10	3/8	0.097	345
1 1/4"	HF304	51.60	43.70	58.72	79	15.09	36.5	16	7.50	11.5	M10	---	0.155	276
1 1/2"	HF305	61.10	50.80	69.85	94	17.86	41	16	7.50	13.5	M12	1/2	0.176	207
2"	HF306	72.25	62.75	77.77	102	21.44	48.5	16	9.00	13.5	M12	1/2	0.252	207
6000 psi														
1/2"	HF601	32.55	24.65	40.49	56	9.12	24	16	7.20	9	M8	5/16	0.074	414
3/4"	HF602	42.10	32.50	50.80	71	11.90	30	20	8.25	11	M10	3/8	0.147	414
1"	HF603	48.40	38.90	57.15	81	13.88	35	25	9.00	13	M12	7/16	0.267	414
1 1/4"	HF604	54.80	44.50	66.68	95	15.88	39	27	9.80	15	M14	---	0.332	414
1 1/4"	HF604-12	54.80	44.50	66.68	95	15.88	39	27	9.80	13.5	M12	1/2	0.351	414
1 1/2"	HF605	64.30	51.60	79.38	113	18.25	47.5	30	12.00	17	M16	5/8	0.548	414
2"	HF606	80.20	67.60	96.82	133	22.23	57	37	12.00	21	M20	3/4	0.928	414



VF

Material

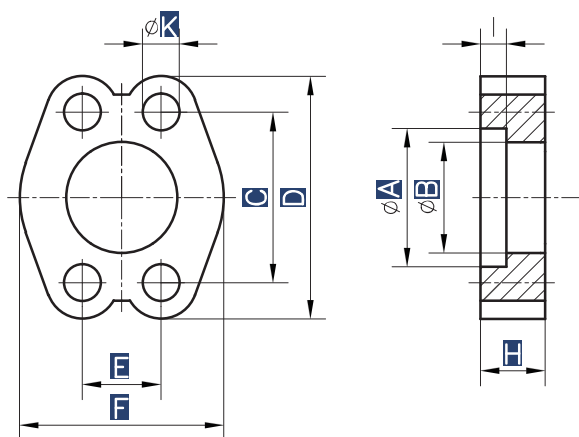
- carbon steel C45
Cr+3 white zinked :VF***-CFX
Ni-Zn zinked :VF***-ZN
- AISI 321/304 :VF***-X
- AISI 316L :VF***-XX

Size (inch)	Type	dimension										bolt		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	K	M	unc		
3000 psi															
1/2"	VF301	31.00	24.30	38.10	54	17.48	46	19	13	6.20	8.5	M8	5/16	0.131	345
3/4"	VF302	38.90	32.10	47.63	65	22.23	52	22	14.3	6.20	10.5	M10	3/8	0.182	345
1"	VF303	45.25	38.80	52.37	70	26.19	59	24	16	7.50	10.5	M10	3/8	0.224	345
1 1/4"	VF304*	51.60	43.70	58.72	79	30.18	73	22	14	7.50	10.5	M10	---	0.318	276
1 1/4"	VF304U*	51.60	43.70	58.72	79	30.18	73	22	14	7.50	12	---	7/16	0.308	276
1 1/4"	VF304-12*	51.60	43.70	58.72	79	30.18	73	22	14	7.50	12.5	M12	---	0.302	276
1 1/4"	VF304-12-6	51.60	43.70	58.72	79	30.18	73	33	24	7.50	12.5	M12	---	0.493	414
1 1/2"	VF305**	61.10	50.80	69.85	94	35.71	83	25	16	7.50	13.5	M12	1/2	0.470	207
1 1/2"	VF305-6	61.10	50.80	69.85	94	35.71	83	37	27	7.50	13.5	M12	---	0.772	414
2"	VF306**	72.25	62.75	77.77	102	42.88	97	26	16	9.00	13.5	M12	1/2	0.533	207
2"	VF306-6	72.25	62.75	77.77	102	42.88	97	43	30	9.00	13.5	M12	---	0.992	414
2"	VF306-14	72.25	62.75	77.77	102	42.88	97	26	16	9.00	14.5	M14	---	0.518	207
2 1/2"	VF307	84.95	74.95	88.90	114	50.80	109	38	19	9.00	13.5	M12	1/2	0.836	160
3"	VF308	102.40	90.95	106.38	135	61.93	131	41	22	9.00	17	M16	5/8	1.326	138
3 1/2"	VF309	115.10	102.40	120.65	152	69.85	140	28	22	10.70	17	M16	5/8	1.264	35
4"	VF310	127.80	115.10	130.18	162	77.77	152	35	25	10.70	17	M16	5/8	1.650	35
5"	VF311	153.20	140.50	152.40	184	92.08	181	41	28	10.70	17	M16	5/8	2.348	35
6000 psi															
1/2"	VF601	32.55	24.65	40.49	56	18.24	48	22	16	7.20	8.5	M8	5/16	0.174	414
3/4"	VF602	42.10	32.50	50.80	71	23.80	60	28	19	8.25	10.5	M10	3/8	0.335	414
1"	VF603U	48.40	38.90	57.15	81	27.76	70	33	24	9.00	12	---	7/16	0.546	414
1"	VF603	48.40	38.90	57.15	81	27.76	70	33	24	9.00	13	M12	---	0.523	414
1 1/4"	VF604-12	54.80	44.50	66.68	95	31.75	78	38	27	9.80	13.5	M12	1/2	0.826	414
1 1/4"	VF604	54.80	44.50	66.68	95	31.75	78	38	27	9.80	14.5	M14	---	0.804	414
1 1/2"	VF605	64.30	51.60	79.38	113	36.50	95	43	30	12.00	17	M16	5/8	1.349	414
2"	VF606	80.20	67.60	96.82	133	44.45	114	52	37	12.00	21	M20	3/4	2.083	414
2 1/2"	VF607	108.90	90.50	123.83	180	58.73	152	45	45	20.00	26	M24	---	4.276	414
3"	VF608	132.50	115.0	152.40	215	71.43	198	55	55	25.00	32	M30	---	7.830	414

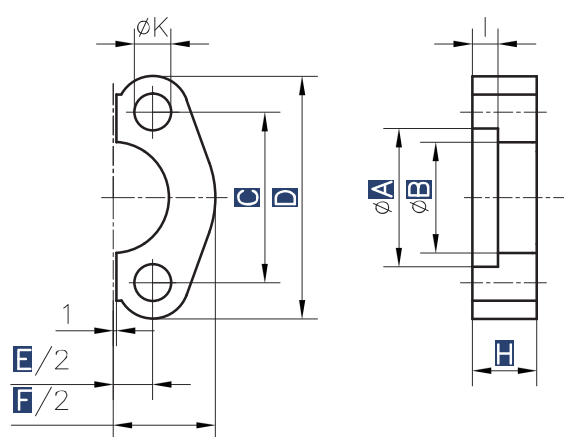
* For these parts H=16 also can be supplied.

** For these parts H=19 also can be supplied.

SAE CAT-STYLE FLANGE



VF9**



FH9**

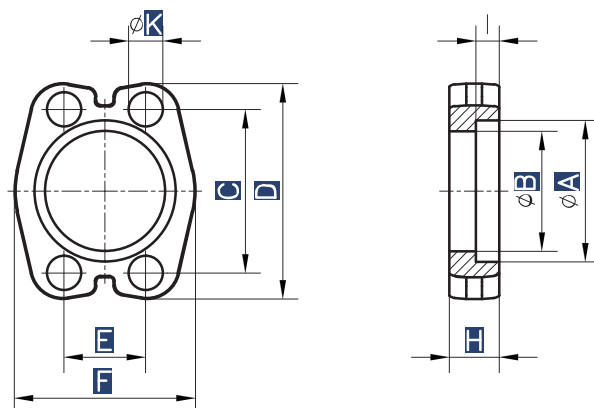
Material

- carbon steel C45
Cr+3 white zinked:VF9**-CFX
Ni-Zn zinked :VF9**-ZN

Size (inch)	Type	dimension									bolt		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	H	I	K	M	unc		
3/4"	VF902 / FH902	42.10	32.50	50.80	72	23.80	60	28	13.3	10.5	M10	3/8	0.434 / 0.212	414
1"	VF903 / FH903	48.40	38.80	57.15	81	27.76	70	28	13.3	13	M12	7/16	0.549 / 0.269	414
1 1/4"	VF904 / FH904	54.80	44.50	66.68	95	31.75	78	28	13.3	14.5	M14	---	0.746 / 0.366	414
1 1/4"	VF904-12 / FH904-12	54.80	44.50	66.68	95	31.75	78	28	13.3	13.5	M12	1/2	0.774 / 0.381	414
1 1/2"	VF905 / FH905	64.30	51.60	79.38	113	36.50	95	32	13.3	17	M16	5/8	1.281 / 0.631	414
2"	VF906 / FH906	80.20	67.60	96.82	133	44.45	114	37	13.3	21	M20	3/4	1.858 / 0.918	414

Specification:

Fits Caterpillar Flange Head ends only



HVF

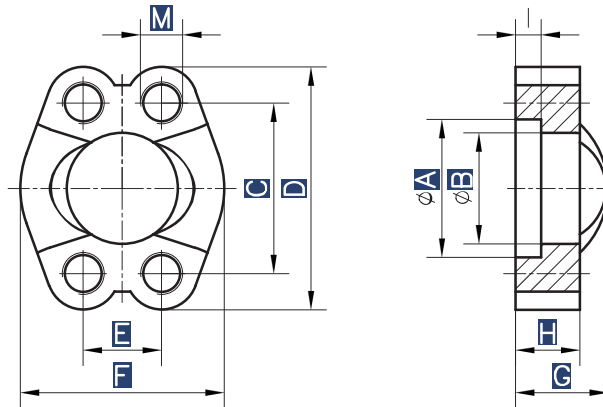
Material

carbon steel C60

Cr+3 white zinked:HVF***-CFX

Ni-Zn zinked :HVF***-ZN

Size (inch)	Type	dimension									bolt		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	H	I	K	M	unc		
3000 psi														
1/2"	HVF301	31.00	24.30	38.10	54	17.48	46	13	6.20	9	M8	5/16	0.132	345
3/4"	HVF302	38.90	32.15	47.63	65	22.23	52	14	6.20	11	M10	3/8	0.159	345
1"	HVF303	45.25	38.80	52.37	70	26.19	59	16	7.50	11	M10	3/8	0.198	345
1 1/4"	HVF304	51.60	43.70	58.72	79	30.18	73	16	7.50	11.5	M10	---	0.315	276
1 1/2"	HVF305	61.10	50.80	69.85	94	35.71	82	16	7.50	13.5	M12	1/2	0.356	207
2"	HVF306	72.25	62.75	77.77	102	42.88	97	16	9.00	13.5	M12	1/2	0.509	207
6000 psi														
1/2"	HVF601	32.55	24.65	40.49	56	18.24	48	16	7.20	9	M8	5/16	0.152	414
3/4"	HVF602	42.10	32.50	50.80	71	23.80	60	20	8.25	11	M10	3/8	0.299	414
1"	HVF603	48.40	38.90	57.15	81	27.76	70	25	9.00	13	M12	7/16	0.542	414
1 1/4"	HVF604	54.80	44.50	66.68	95	31.75	78	27	9.80	15	M14	---	0.674	414
1 1/4"	HVF604-12	54.80	44.50	66.68	95	31.75	78	27	9.80	13.5	M12	1/2	0.713	414
1 1/2"	HVF605	64.30	51.60	79.38	113	36.50	95	30	12.00	17	M16	5/8	1.111	414
2"	HVF606	80.20	67.60	96.82	133	44.45	114	37	12.00	21	M20	3/4	1.876	414



VFM/VFU

Material

- carbon steel C45
Cr+3 white zinked:VFM***-CFX
Ni-Zn zinked :VFM***-ZN
- AISI 321/304 :VFM***-X
- AISI 316L :VFM***-XX

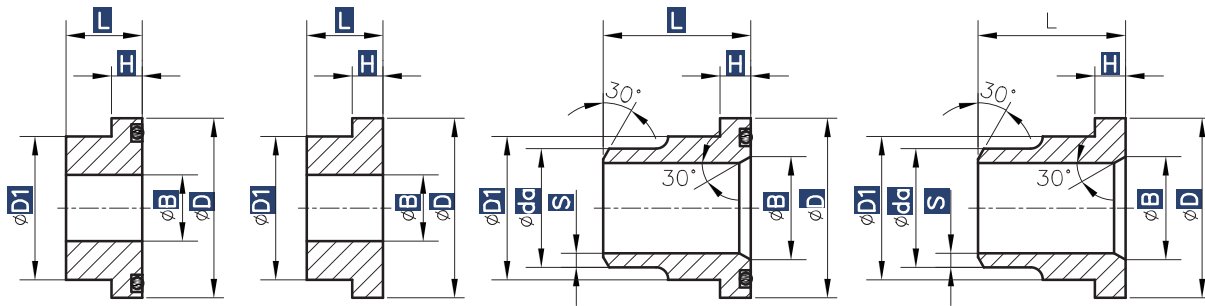
When thread is unc, part No. will be VFU

Split flange also can be supplied, part No. will be FHM/FHU

Size (inch)	Type	dimension									bolt		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	M	unc		
3000 psi														
1/2"	VFM301	31.00	24.30	38.10	54	17.48	46	19	13	6.20	M8	5/16	0.138	345
3/4"	VFM302	38.90	32.10	47.63	65	22.23	52	22	14.3	6.20	M10	3/8	0.193	345
1"	VFM303	45.25	38.80	52.37	70	26.19	59	24	16	7.50	M10	3/8	0.239	345
1 1/4"	VFM304*	51.60	43.70	58.72	79	30.18	73	22	14	7.50	M10	7/16	0.332	276
1 1/4"	VFM304-12*	51.60	43.70	58.72	79	30.18	73	22	14	7.50	M12	--	0.321	276
1 1/2"	VFM305**	61.10	50.80	69.85	94	35.71	83	25	16	7.50	M12	1/2	0.491	207
2"	VFM306**	72.25	62.75	77.77	102	42.88	97	26	16	9.00	M12	1/2	0.561	207
2 1/2"	VFM307	84.95	74.95	88.90	114	50.80	109	38	19	9.00	M12	1/2	0.870	160
3"	VFM308	102.40	90.95	106.38	135	61.93	131	41	22	9.00	M16	5/8	1.378	138
3 1/2"	VFM309	115.10	102.40	120.65	152	69.85	140	28	22	10.70	M16	5/8	1.315	35
4"	VFM310	127.80	115.10	130.18	162	77.77	152	35	25	10.70	M16	5/8	1.708	35
5"	VFM311	153.20	140.50	152.40	184	92.08	181	41	28	10.70	M16	5/8	2.413	35
重系列 6000 psi														
1/2"	VFM601	32.55	24.65	40.49	56	18.24	48	22	16	7.20	M8	5/16	0.184	414
3/4"	VFM602	42.10	32.50	50.80	71	23.80	60	28	19	8.25	M10	3/8	0.353	414
1"	VFM603	48.40	38.90	57.15	81	27.76	70	33	24	9.00	M12	7/16	0.566	414
1 1/4"	VFM604-12	54.80	44.50	66.68	95	31.75	78	38	27	9.80	M12	--	0.875	414
1 1/4"	VFM604	54.80	44.50	66.68	95	31.75	78	38	27	9.80	M14	1/2	0.848	414
1 1/2"	VFM605	64.30	51.60	79.38	113	36.50	95	43	30	12.00	M16	5/8	1.413	414
2"	VFM606	80.20	67.60	96.82	133	44.45	114	52	37	12.00	M20	3/4	2.206	414
2 1/2"	VFM607	108.90	90.50	123.83	180	58.73	152	45	45	20.00	M24	--	4.713	414
3"	VFM608	132.50	115.0	152.40	215	71.43	198	55	55	25.00	M30	--	8.282	414

* For these parts H=16 also can be supplied.

** For these parts H=19 also can be supplied.



FT

FTN

SFJ

SFJN

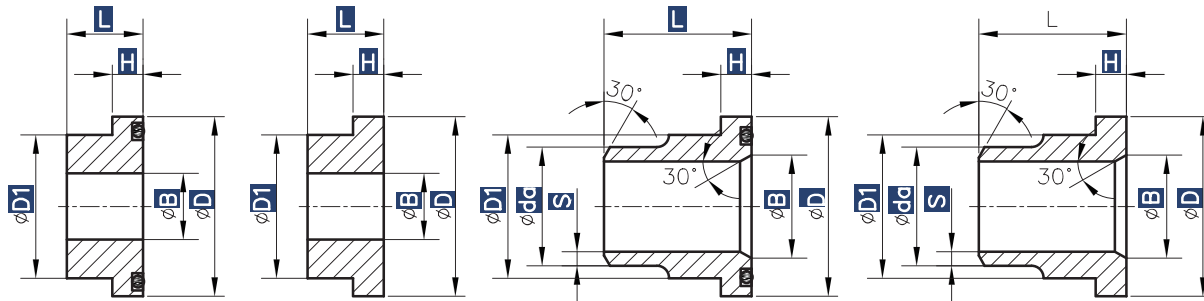
Material

- carbon steel C20
Blank oiled : FT*** / SFJ***
- AISI 321/304 : FT***-X / SFJ***-X
- AISI 316L : FT***-XX / SFJ***-XX

Series - 3000psi

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		daxs	B	D	D1	H	L	Flange	o-ring		
1/2"	SFJ301	16x3, 18x3, 20x3, 21.3x3.6, 22x3, 22x5	13	30.5	23.6	6.8	30	FH301	18.66x3.53	0.07	345
	FT301		10				16			0.05	
3/4"	SFJ302	16x3, 20x3, 22x3, 25x3, 25x4, 26.9x2.9, 26.9x3.6, 28x3, 28x4, 28x4.5, 30x5	19	38.3	31.8	6.8	35	FH302	25.00x3.53	0.13	345
	FT302		15				17			0.08	
1"	SFJ303	20x3, 25x3, 28x3, 30x4, 33.7x3.2, 33.7x3.6, 34x4, 34x5, 35x5, 38x5	25	44.5	38	8	40	FH303	32.92x3.53	0.20	345
	FT303		20				17			0.12	
1 1/4"	SFJ304	30x4, 38x4, 38x5, 42.4x3.2, 42.4x3.6, 42.4x4, 42.4x5, 42.4x6.3, 43x6	32	50.8	43	8	45	FH304	37.70x3.53	0.24	276
	FT304		27				17			0.13	
1 1/2"	SFJ305	38x4, 42.4x3.2, 42.4x4, 48.3x3.2, 48.3x3.6, 48.3x4.5, 48.3x5, 48.3x6.3, 48.6x5.3, 50x3, 50x5, 50x6	38	60.3	50	8	50	FH305	47.22x3.53	0.40	207
	FT305		32				19			0.20	
2"	SFJ306	42.4x5, 48.3x3.2, 48.6x5.3, 50x6, 57x3.5, 57x5, 60.3x3.2, 60.3x4, 60.3x5.6, 60.3x6.3, 60.3x8, 62x7.5	51	71.6	62	9.6	60	FH306	56.75x3.53	0.65	207
	FT306		40				19			0.31	
2 1/2"	SFJ307 ***	60.3x4, 65x6, 70x7, 70x7.5, 73x5.2, 73x7, 76.1x4, 76.1x5, 76.1x5.5, 76.1x7.1, 76.1x10 ***	63	84.1	74.5	9.6	70	FH307	69.45x3.53	0.85	160
	FT307		50				30			0.47	
3"	SFJ308	60.3x4, 76.1x4, 76.1x5.5, 89x4, 89x5, 89x6, 89x8, 90x10	76	101.6	90	9.6	80	FH308	85.32x3.53	1.35	138
3 1/2"	SFJ309	76.1x4, 89x4, 101.6x7.1, 102x5	89	114.4	101.8	11.3	80	FH309	98.02x3.53	1.50	35
4"	SFJ310	89x4, 89x5, 114.3x4, 114.3x5, 114.3x6, 114.3x8	102	127	114.5	11.3	80	FH310	110.72x3.53	1.50	35
5"	SFJ311	140x4, 140x5, 140x7, 140x10	127	152.4	140	11.3	80	FH311	136.12x3.53	2.00	35

*** When the design outer diameter of SF 1307 product welded pipe is 76.1, the actual outer diameter is 74., fit must be 76.1, it will be non standard form, please specify when ordering.



FT

FTN

SFJ

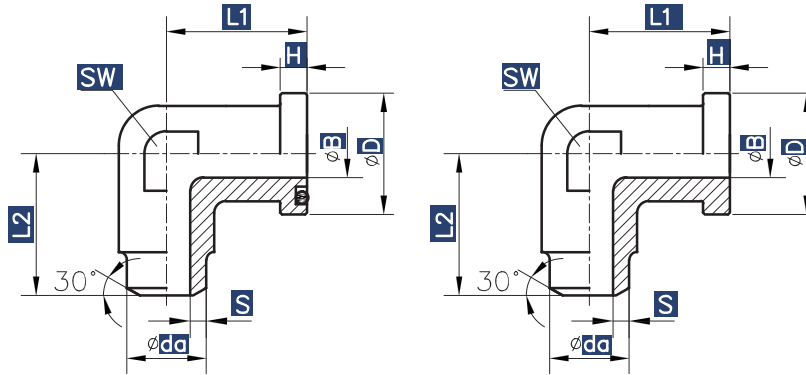
SFJN

Material

- carbon steel C20
Blank oiled : FT*** / SFJ***
- AISI 321/304 : FT***-X / SFJ***-X
- AISI 316L : FT***-XX / SFJ***-XX

Series - 6000psi

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		daxs	B	D	D1	H	L	Flange	o-ring		
1/2"	SFJ601	16x3, 20x3, 22x3, 22x4, 22x4.5	13	31.8	24	7.8	40	FH601	18.66x3.53	0.10	414
	FT601		10				16			0.06	
3/4"	SFJ602	20x3, 22x3, 25x3, 25x4, 26.9x4, 26.9x5.6, 28x4, 28x5, 30x4, 30x5	19	41.3	31.8	8.8	45	FH602	25.00x3.53	0.20	414
	FT602		15				20			0.12	
1"	SFJ603	25x4, 30x4, 30x5, 33.7x4.5, 33.7x5.6, 33.7x6.3, 33.7x7.1, 34x4, 34x5, 34x8, 35x5, 35x6.5, 38x4, 38x5, 38x6	25	47.6	38	9.5	50	FH603	32.92x3.53	0.30	414
	FT603		20				22			0.17	
1 1/4"	SFJ604	30x4, 30x5, 38x4, 38x5, 38x6, 42.4x4.5, 42.4x5, 42.4x6.3, 42.4x8	32	54	44	10.3	55	FH604	37.70x3.53	0.40	414
	FT604		27				27			0.22	
1 1/2"	SFJ605	38x5, 38x6, 42.4x6.3, 48.3x5, 48.3x6.3, 48.3x7.1, 48.3x8, 48.3x8.8, 50x5, 50x6, 50x8	38	63.5	50.8	12.6	60	FH605	47.22x3.53	0.60	414
	FT605		32				32			0.39	
2"	SFJ606	48.3x6.3, 60.3x5.6, 60.3x6.3, 60.3x8, 60.3x10, 61x9, 63x8, 63x10	51	79.4	67	12.6	70	FH606	56.75x3.53	1.10	414
	FT606		40				40			0.79	
2 1/2"	SFJ607	73x7, 76.1x6, 76.1x10, 76.1x12.5, 89x11, 89x12.5, 89x14.2	63	108	89	21.2	80	FH607	75.57x5.33	2.30	414
3"	SFJ608	89x11, 89x14.2, 108x12, 114.3x12, 114.3x14.2, 114.3x17.5	76/89	132	114.3	26.5	100	FH608	88.27x5.33 97.79x5.33	4.50	414



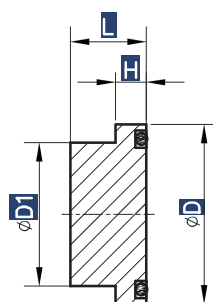
WFJ

WFJN

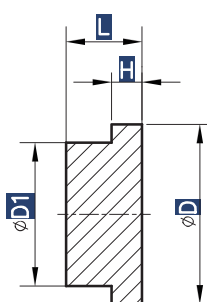
Material

1. Q345B, carbon steel Q345B
Blank oiled : WFJ***
2. AISI 321/304 : WFJ***-X
3. AISI 316L : WFJ***-XX

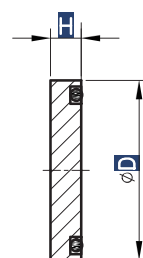
Size (inch)	Type	dimension							Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		daxs	B	D	H	L1	L2	SW	Flange	o-ring		
3000 psi												
1/2"	WFJ301	22x3, 22x4.5	12	30.5	6.8	39	38	24	FH301	18.66x3.53	0.18	345
3/4"	WFJ302	22x3, 25x3, 26.9x3.6, 28x4.5	19	38.3	6.8	42	45	30	FH302	25.00x3.53	0.30	345
1"	WFJ303	25x3, 30x4, 34x4, 35x5	25	44.7	8	45	47	36	FH303	32.92x3.53	0.40	345
1 1/4"	WFJ304	30x4, 38x4, 42.4x4, 42.8x5.4	27	51	8	50	57	41	FH304	37.70x3.53	0.65	276
1 1/2"	WFJ305	42.4x4, 48.3x5, 48.6x5.3	36	60.5	8	55	64	50	FH305	47.22x3.53	0.91	207
2"	WFJ306	60.3x5.6, 61x5	45	71.6	9.6	108	80	60	FH306	56.75x3.53	1..92	207
6000 psi												
1/2"	WFJ601	20x3, 22x4.5	12	31.8	7.8	39	38	24	FH601	18.66x3.53	0.20	414
3/4"	WFJ602	25x4, 27.2x4.1, 28x5	17	41.3	8.8	48	48	32	FH602	25.00x3.53	0.43	414
1"	WFJ603	30x4, 33.7x7.1, 34x4.5, 35x5, 38x5	24	47.6	9.5	60	55	41	FH603	32.92x3.53	0.73	414
1 1/4"	WFJ604	30x5, 38x6, 42.8x5.4, 42.8x6, 42.8x8.8	31	54	10.3	68	61	46	FH604	37.70x3.53	0.90	414
1 1/2"	WFJ605	38x6, 42.4x8, 42.8x5.4, 48.6x5.3, 48.6x8 50x6	36	63.5	12.6	76	72	50	FH605	47.22x3.53	1.31	414
2"	WFJ606	60.3x10, 61x8	45	79.4	12.6	108	80	60	FH606	56.75x3.53	2.36	414



MG



MGN



MGL

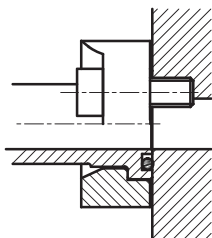
Material

1. carbon steel C45
Blank oiled : MG***
2. AISI 321/304 : MG***-X
3. AISI 316L : MG***-XX

Size (inch)	Type	dimension				Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		D	D1	H	L	Flange	o-ring		
3000 psi									
1/2"	MG301	30.5	23.6	6.8	16	FH301	18.66x3.53	0.064	345
3/4"	MG302	38.3	31.8	6.8	17	FH302	25.00x3.53	0.117	345
1"	MG303	44.5	38	8	17	FH303	32.92x3.53	0.167	345
11/4"	MG304	50.8	43	8	17	FH304	37.70x3.53	0.217	276
11/2"	MG305	60.3	50	8	19	FH305	47.22x3.53	0.334	207
2"	MG306	71.6	62	9.6	19	FH306	56.75x3.53	0.508	207
21/2"	MG307	84.1	74	9.6	22	FH307	69.45x3.53	0.815	160
21/2"	MG307B	84.1	76.1	9.6	22	FH307B	69.45x3.53	0.839	160
3"	MG308	101.6	90	9.6	24	FH308	85.32x3.53	1.303	138
31/2"	MG309	114.4	101.8	11.3	27	FH309	98.02x3.53	1.885	35
4"	MG310	127	114.5	11.3	36	FH310	110.72x3.53	3.085	35
5"	MG311	152.4	140	11.3	45	FH311	136.12x3.53	5.648	35
6000 psi									
1/2"	MG601	31.8	24	7.8	18	FH601	18.66x3.53	0.079	414
3/4"	MG602	41.3	31.8	8.8	19	FH602	25.00x3.53	0.148	414
1"	MG603	47.6	38	9.5	24	FH603	32.92x3.53	0.251	414
11/4"	MG604	54	44	10.3	37	FH604	37.70x3.53	0.372	414
11/2"	MG605	63.5	50.8	12.6	30	FH605	47.22x3.53	0.575	414
2"	MG606	79.4	67	12.6	30	FH606	56.75x3.53	0.953	414
21/2"	MG607	108	89	21.2	45	FH607	75.57x5.33	2.632	414
3"	MG608	132	114.3	26.5	55	FH608	97.79x5.33	5.072	414

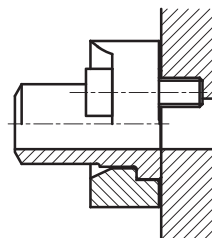
ASF

Split flange plate (FH): 2 pcs
Welded tube with O-groove (SFJ-): 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: ASF 306-60.3x5.6
ASF306U-60.3x5.6
(with imperial bolts)



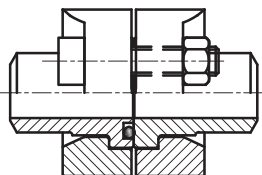
ASFN

Split flange plate (FH): 2 pcs
Plain welded tube (SFJN-): 1 pc
Bolt set: 1 set
Example: ASFN 306-60.3x5.6



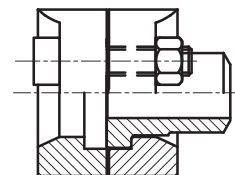
BSF

Split flange plate (FH): 2 pcs
Full flange plate (VF): 1 pc
Mated welded tubes (SFJ + SFJN): 1 pc each
O-ring: 1 pc
Bolt set: 1 set
Example: BSF 308-89x4
BSF308-89x4-76.1x4
(two end tube sizes may differ)



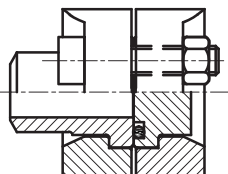
CSF

Split flange plate (FH): 2 pcs
Full flange plate (VF): 1 pc
Plain welded tube (SFJN-): 1 pc
Bolt set: 1 set
Example: CSF 305-48.3x3.6



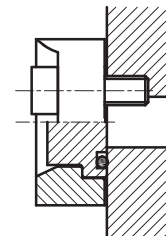
DSF

Split flange plate (FH): 2 pcs
Full flange plate (VF): 1 pc
Blind cap with O-groove (MG): 1 pc
Plain welded tube (SFJN-): 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: DSF606-60.3x10r



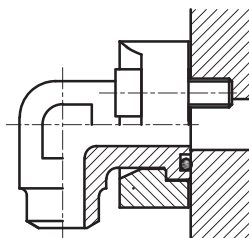
ESF

Split flange plate (FH): 2 pcs
Blind cap with O-groove (MG): 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: ESF303



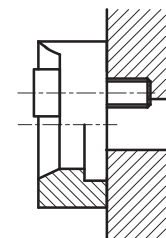
AWF

(90° elbow version of ASF)
Split flange plate (FH): 2 pcs
90° elbow welded tube with O-groove (WFJ-): 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: AWF604-42x5



FSF

Split flange plate (FH): 2 pcs
O-ring: 1 pc
Bolt set: 1 set
Example: FSF 605



1. Material

Material used for flange welding couplings is indicated with suffix as follow:

Flange and welding adapter are all carbon steel: without suffix.

Carbon steel flange and stainless steel AISI 321/304 welding adapter: with the suffix-ST/X

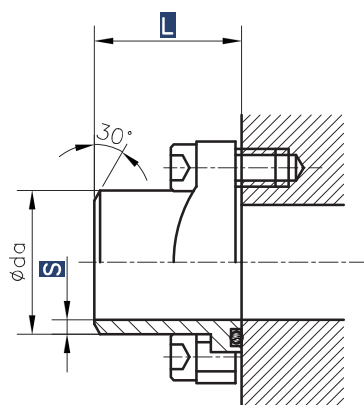
Carbon steel flange and stainless steel AISI 316L welding adapter: with the suffix-ST/XX

Flange and welding adapter are all stainless steel:

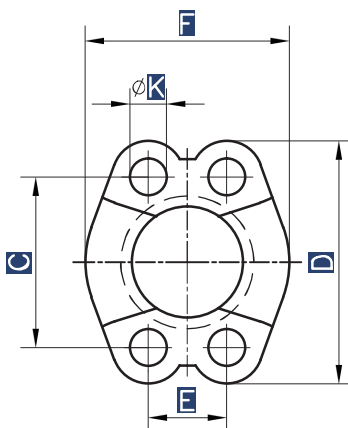
AISI 321/304 with the suffix -X, AISI 316L with the suffix -XX

For the couplings above, split flanges FH could be replaced with flange clamp VF if need.

For the couplings above, flange clamp VF could be replaced with thread flange clamp VFM if need.



ASF



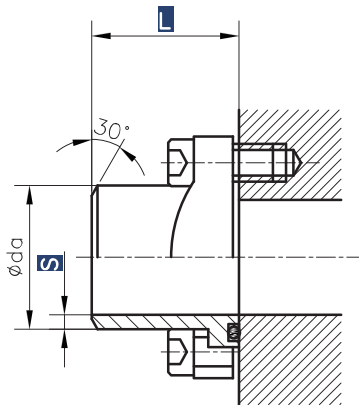
BSF

Series - 3000psi

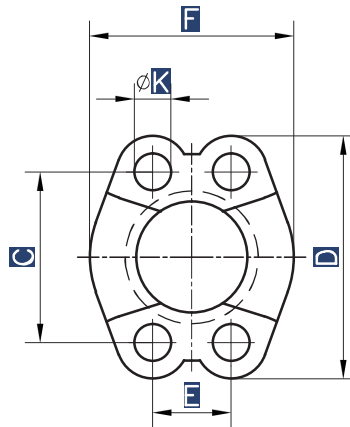
da x s indicates the outer diameter x wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Size (inch)	Type	dimension							Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
		daxs	C	D	E	F	L	K	bolt		o-ring		
									M	U			
1/2"	ASF301	16x3, 18x3, 20x3, 21.3x3.6 22x3, 22x5	38.10	54	17.48	46	30	8.5	M8X25	5/16X1 1/4	18.66x3.53	0.28	345
	BSF301								M8X40	5/16X1 1/2		0.52	
3/4"	ASF302	16x3, 20x3, 22x3, 25x3, 25x4 26.9x2.9, 26.9x3.6, 28x3, 28x4 28x4.5, 30x5	47.63	65	22.23	52	35	10.5	M10X30	3/8X1 1/4	25.00x3.53	0.44	345
	BSF302								M10X45	3/8X1 3/4		0.85	
1"	ASF303	20x3, 25x3, 28x3, 30x4, 33.7x3.2 33.7x3.6, 34x4, 34x5, 35x5, 38x5	52.37	70	26.19	59	40	10.5	M10X30	3/8X1 1/4	32.92x3.53	0.56	345
	BSF303								M10X50	3/8X2		1.10	
1 1/4"	ASF304	30x4, 38x4, 38x5, 42.4x3.2 42.4x3.6, 42.4x4, 42.4x5, 42.4x6.3 43x6	58.72	79	30.18	73	45	10.5 12	M10X30	7/16X1 1/2	37.70x3.53	0.72	276
	BSF304								M10X45	7/16X1 3/4		1.40	
1 1/2"	ASF305	38x4, 42.4x3.2, 42.4x4, 48.3x3.2 48.3x3.6, 48.3x4.5, 48.3x5 48.3x6.3, 48.6x5.3, 50x3, 50x5 50x6	69.85	94	35.71	83	50	13.5	M12X35	1/2X1 1/2	47.22x3.53	0.92	207
	BSF305								M12X55	1/2X2		1.80	
2"	ASF306	42.4x5, 48.3x3.2, 48.6x5.3 50x6, 57x3.5, 57x5, 60.3x3.2 60.3x4, 60.3x5.6, 60.3x6.3, 60.3x8 62x7.5	77.77	102	42.88	97	60	13.5	M12X35	1/2X1 1/2	56.75x3.53	1.30	207
	BSF306								M12X55	1/2X2		2.50	
2 1/2"	ASF307 ***	60.3x4, 65x6, 70x7, 70x7.5, 73x5.2 73x7, 76.1x4, 76.1x5, 76.1x5.5 76.1x7.1, 76.1x10 ***	88.90	114	50.80	109	70	13.5	M12X40	1/2X1 3/4	69.45x3.53	1.80	160
	BSF307								M12X55	1/2X2		3.50	
3"	ASF308	60.3x4, 76.1x4, 76.1x5.5, 89x4 89x5, 89x6, 89x8, 90x10	106.38	135	61.93	131	80	17	M16X50	5/8X2	85.32x3.53	2.60	138
	BSF308								M16X70	5/8X2 3/4		5.10	
3 1/2"	ASF309	76.1x4, 89x4, 101.6x7.1 102x5	120.65	152	69.85	140	80	17	M16X50	5/8X2	98.02x3.53	3.00	35
	BSF309								M16X70	5/8X2 3/4		5.80	
4"	ASF310	89x4, 89x5, 114.3x4 114.3x5, 114.3x6, 114.3x8	130.18	162	77.77	152	80	17	M16X50	5/8X2	110.72x3.53	3.50	35
	BSF310								M16X75	5/8X3		6.70	
5"	ASF311	140x4, 140x5, 140x7, 140x10	152.40	184	92.08	181	80	17	M16X55	5/8X2 1/4	136.12x3.53	4.50	35
	BSF311								M16X85	5/8X3 1/4		8.60	

*** For SFJ307 product, the designed outer diameter of the welded tube is 76.1, whereas the actual outer diameter is 74.5.
If a strict outer diameter of 76.1 is required, please mentioned it at the time of ordering.



ASF

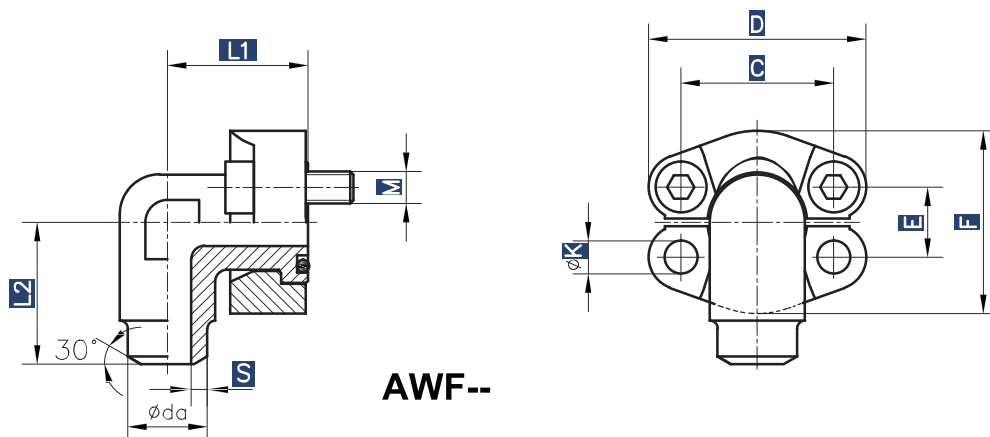


BSF

indicates the outer diameter × wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Series - 6000psi

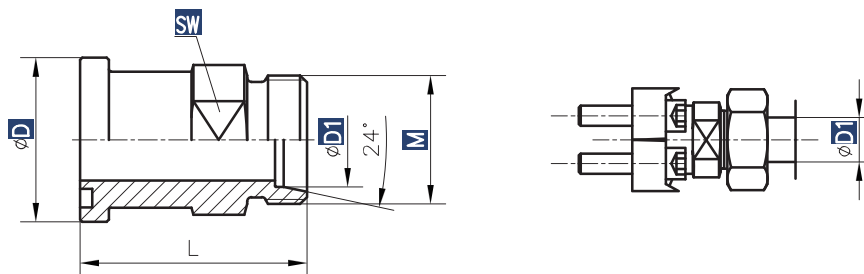
Size (inch)	Type	dimension							Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
		daxs	C	D	E	F	L	K	bolt		o-ring		
									M	U			
1/2"	ASF601	16x3, 20x3, 22x3, 22x4, 22x4.5	40.49	56	18.24	48	40	8.5	M8X30	5/16X1 1/4	18.66x3.53	0.35	414
	BSF601	M8X45							5/16X1 3/4	0.67			
3/4"	ASF602	20x3, 22x3, 25x3, 25x4, 26.9x4 26.9x5.6, 28x4, 28x5, 30x4 30x5	50.80	71	23.80	60	45	10.5	M10X35	3/8X1 1/2	25.00x3.53	0.68	414
	BSF602	M10X55							3/8X2	1.30			
1"	ASF603	25x4, 30x4, 30x5, 33.7x4.5 33.7x5.6, 33.7x6.3, 33.7x7.1 34x4, 34x5, 34x8, 35x5, 35x6.5 38x4, 38x5, 38x6	57.15	81	27.76	70	50	13 12	M12X45	7/16X1 3/4	32.92x3.53	1.06	414
	BSF603	M12X65							7/16X2 1/2	2.00			
1 1/4"	ASF604	30x4, 30x5, 38x4, 38x5, 38x6 42.4x4.5, 42.4x5, 42.4x6.3, 42.4x8	66.68	95	31.75	78	55	14.5 13.5	M14X50	1/2X1 3/4	37.70x3.53	1.58	414
	BSF604	M14X75							1/2X3	3.00			
1 1/2"	ASF605	38x5, 38x6, 42.4x6.3, 48.3x5 48.3x6.3, 48.3x7.1, 48.3x8 48.3x8.8, 50x5, 50x6, 50x8	79.38	113	36.50	95	60	17	M16X55	5/8X2 1/4	47.22x3.53	2.50	414
	BSF605	M16X85							5/8X3 1/4	4.80			
2"	ASF606	48.3x6.3, 60.3x5.6, 60.3x6.3 60.3x8, 60.3x10, 61x9, 63x8 63x10	96.82	133	44.45	114	70	21	M20X70	3/4X2 3/4	56.75x3.53	4.30	414
	BSF606	M20X100							3/4X4	8.20			
2 1/2"	ASF607	73x7, 76.1x6, 76.1x10, 76.1x12.5 89x11, 89x12.5, 89x14.2	123.83	180	58.73	152	80	26	M24X80	7/8X3 1/2	75.57x5.33	8.50	414
	BSF607	M24X130							7/8X5	16.50			
3"	ASF608	89x11, 89x14.2, 108x12 114.3x12, 114.3x14.2, 114.3x17.5	152.4	215	71.43	198	100	32	M30X90	1 1/8X4 1/2	88.27x5.33 97.79x5.33	16.80	414
	BSF608	M30X150							1 1/8X6	32.80			



$da \times s$ indicates the outer diameter $\times$ wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Size (inch)	Type	dimension								Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
		daxs	C	D	E	F	L1	L2	K	bolt		o-ring		
										M	U			
3000 psi														
1/2"	AWF301	22x3, 22x4.5	38.10	54	17.48	46	39	38	8.5	M8X25	5/16X1 1/4	18.66x3.53	0.40	345
3/4"	AWF302	22x3, 25x3 26.9x3.6, 28x4.5	47.63	65	22.23	52	42	45	10.5	M10X30	3/8X1 1/4	25.00x3.53	0.60	345
1"	AWF303	25x3, 30x4 34x4, 35x5	52.37	70	26.19	59	45	47	10.5	M10X30	3/8X1 1/4	32.92x3.53	0.80	345
1 1/4"	AWF304	30x4, 38x4 42.4x4, 42.8x5.4	58.72	79	30.18	73	50	57	10.5 12	M10X30	7/16X1 1/2	37.70x3.53	1.20	276
1 1/2"	AWF305	42.4x4, 48.3x5 48.6x5.3	69.85	94	35.71	83	55	64	13.5	M12X35	1/2X1 1/2	47.22x3.53	1.60	207
2"	AWF306	60.3x5.6, 61x5	77.77	102	42.88	97	108	80	13.5	M12X35	1/2X1 1/2	56.75x3.53	2.60	207
重系列 6000 psi														
1/2"	AWF601	20x3, 22x4.5	40.49	56	18.24	48	39	38	8.5	M8X30	5/16X1 1/4	18.66x3.53	0.47	414
3/4"	AWF602	25x4, 27.2x4.1 28x5	50.80	71	23.80	60	48	48	10.5	M10X35	3/8X1 1/2	25.00x3.53	0.90	414
1"	AWF603	30x4, 33.7x7.1 34x4.5, 35x5 38x5	57.15	81	27.76	70	60	55	13 12	M12X45	7/16X1 3/4	32.92x3.53	1.50	414
1 1/4"	AWF604	30x5, 38x6 42.8x5.4, 42.8x6 42.8x8.8	66.68	95	31.75	78	68	61	14.5 13.5	M14X50	1/2X1 3/4	37.70x3.53	2.20	414
1 1/2"	AWF605	38x6, 42.4x8 42.8x5.4, 48.6x5.3 48.6x8, 50x6	79.38	113	36.50	95	76	72	17	M16X55	5/8X2 1/4	47.22x3.53	3.30	414
2"	AWF606	60.3x10, 61x8	96.82	133	44.45	114	108	80	21	M20X70	3/4X2 3/4	56.75x3.53	4.30	414

SAE FLANGE ADAPTER WITH MALE METRIC THREAD & 24° INNER CONE



GSF--L/S

Material

1. carbon steel C45
Cr+3 white zinked :GSF***-L/S-CFX
Ni-Zn zinked :GSF***-L/S-ZN
2. AISI 321/304 :GSF***-L/S-X
3. AISI 316L :GSF***-L/S-XX

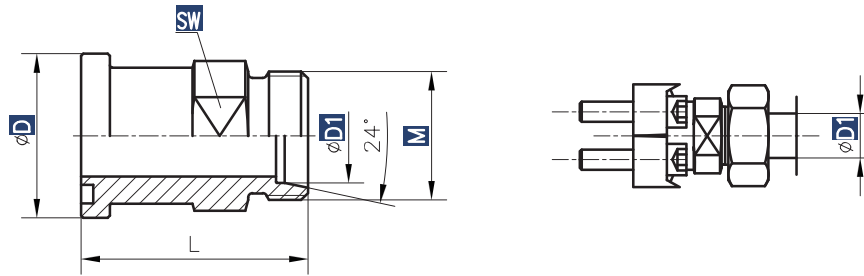
Series - 3000psi

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L	SW	Flange	o-ring		
1/2"	GSF301-15L	15L	30.5	M22X1.5	48	24	FH301	18.66x3.53	0.133	345
	GSF301-16S	16S		M24X1.5	50				0.143	345
3/4"	GSF302-18L	18L	38.3	M26X1.5	53	30	FH302	25.00x3.53	0.230	345
	GSF302-22L	22L		M30X2	53				0.210	160
	GSF302-20S	20S		M30X2	57				0.252	345
	GSF302-25S	25S		M36X2	57				0.274	345
	GSF302-28L	28L		M36X2	53				0.229	160
1"	GSF303-28L	28L	44.7	M36X2	54	36	FH303	32.92x3.53	0.289	160
	GSF303-25S	25S		M36X2	59				0.368	345
	GSF303-30S	30S		M42X2	63				0.374	345
1 1/4"	GSF304-28L	28L	51	M36X2	58	36	FH304	37.70x3.53	0.397	160
	GSF304-35L	35L		M45X2	58	41			0.357	160
	GSF304-25S	25S		M36X2	60				0.449	276
	GSF304-30S	30S		M42X2	62				0.451	276
	GSF304-38S	38S		M52X2	80	46			0.680	276
1 1/2"	GSF305-42L	42L	60.5	M52X2	64	46	FH305	47.22x3.53	0.495	160
	GSF305-38S	38S			70				0.691	207
2"	GSF306-42L	42L	71.6	M52X2	69	55	FH306	56.75x3.53	0.976	160
	GSF306-38S	38S			75				1.177	207

Specification:

1. Flange adapter only: GSF301-15L, GSF301-15L-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE FLANGE ADAPTER WITH MALE METRIC THREAD & 24° INNER CONE



GSF--L/S

Material

- carbon steel C45
Cr+3 white zinked :GSF***-L/S-CFX
Ni-Zn zinked :GSF***-L/S-ZN
- AISI 321/304 :GSF***-L/S-X
- AISI 316L :GSF***-L/S--XX

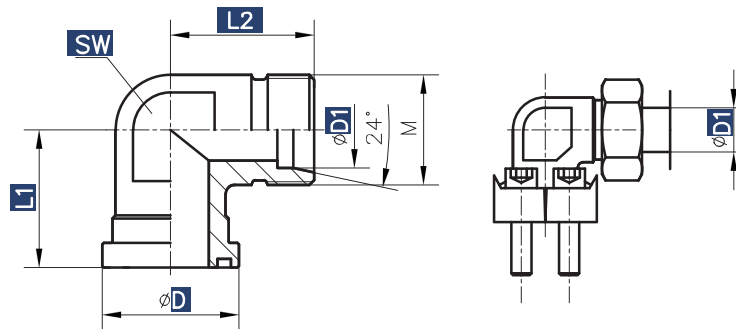
Series - 6000psi

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L	SW	Flange	o-ring		
1/2"	GSF601-16S	16S	31.8	M24X1.5	53	24	FH601	18.66x3.53	0.156	414
3/4"	GSF602-16S	16S	41.5	M24X1.5	59	30	FH602	25.00x3.53	0.290	414
	GSF602-20S	20S		M30X2	61				0.298	
	GSF602-25S	25S		M36X2	63				0.320	
	GSF602-30S	30S		M42X2	65				0.341	
1"	GSF603-20S	20S	47.8	M30X2	70	36	FH603	32.92x3.53	0.443	414
	GSF603-25S	25S		M36X2	72				0.473	
	GSF603-30S	30S		M42X2	74				0.451	
1 1/4"	GSF604-30S	30S	54.2	M42X2	79	41	FH604	37.70x3.53	0.594	414
	GSF604-38S	38S		M52X2	83	46			0.677	345
1 1/2"	GSF605-30S	30S	63.7	M42X2	87	46	FH605	47.22x3.53	0.897	414
	GSF605-38S	38S		M52X2	89				0.960	345
2"	GSF606-30S	30S	79.6	M42X2	92	55	FH606	56.75x3.53	1.848	345
	GSF606-38S	38S		M52X2	94				1.806	

Specification:

- Flange adapter only: GSF601-16S, GSF601-16S-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE FLANGE ADAPTER-90° WITH MALE METRIC THREAD & 24° INNER CONE



GWF--L/S

Material

- carbon steel Q345B
Cr+3 white zinked: GWF***-L/S--CFX
Ni-Zn zinked : GWF***-L/S--ZN
- AISI 321/304 : GWF***-L/S--X
- AISI 316L : GWF***-L/S--XX

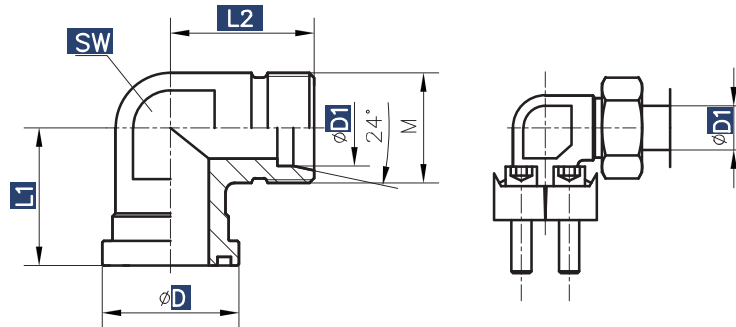
Series - 3000psi

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L1	L2	SW	Flange	o-ring		
1/2"	GWF301-15L	15L	30.5	M22X1.5	39	36	24	FH301	18.66x3.53	0.196	345
	GWF301-16S	16S		M24X1.5		38				0.206	345
3/4"	GWF302-18L	18L	38.3	M26X1.5	42	39	30	FH302	25.00x3.53	0.300	345
	GWF302-22L	22L		M30X2		41				0.293	160
	GWF302-20S	20S		M30X2		43				0.321	345
	GWF302-25S	25S		M36X2		45				0.334	345
1"	GWF303-28L	28L	44.7	M36X2	45	47	36	FH303	32.92x3.53	0.422	160
	GWF303-25S	25S		M36X2		47				0.460	345
	GWF303-30S	30S		M42X2		47				0.458	345
1 1/4"	GWF304-35L	35L	51	M45X2	50	57	41	FH304	37.70x3.53	0.701	160
	GWF304-25S	25S		M36X2		55				0.715	276
	GWF304-30S	30S		M42X2		57				0.709	276
	GWF304-38S	38S		M52X2		59				0.759	276
1 1/2"	GWF305-42L	42L	60.5	M52X2	55	58	50	FH305	47.22x3.53	0.879	160
	GWF305-38S	38S				64				1.032	207
2"	GWF306-42L	42L	71.6	M52X2	108	80	60	FH306	56.75x3.53	2.143	160
	GWF306-38S	38S								2.225	207

Specification:

- Flange adapter only: GWF301-15L, GWF301-15L-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE FLANGE ADAPTER-90° WITH MALE METRIC THREAD & 24° INNER CONE



GWF--L/S

Material

- Q345B, carbon steel Q345B
Cr+3 white zinked: GWF***-L/S-CFX
Ni-Zn zinked : GWF***-L/S-ZN
- AISI 321/304 : GWF***-L/S-X
- AISI 316L : GWF***-L/S-XX

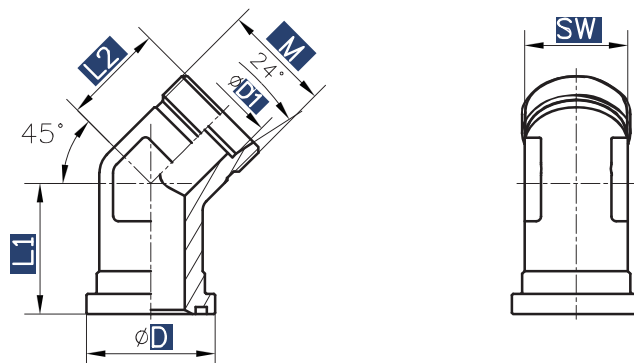
Series - 6000psi

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L1	L2	SW	Flange	o-ring		
1/2"	GWF601-16S	16S	31.8	M24X1.5	39	38	24	FH601	18.66x3.53	0.214	414
3/4"	GWF602-16S	16S	41.5	M24X1.5	48	45	32	FH602	25.00x3.53	0.441	414
	GWF602-20S	20S		M30X2		46				0.434	
	GWF602-25S	25S		M36X2		48				0.456	
1"	GWF603-25S	25S	47.8	M36X2	60	53	41	FH603	32.92x3.53	0.758	414
	GWF603-30S	30S		M42X2		55				0.759	
1 1/4"	GWF604-30S	30S	54.2	M42X2	68	58	46	FH604	37.70x3.53	0.959	414
	GWF604-38S	38S		M52X2		61				1.021	345
1 1/2"	GWF605-30S	30S	63.7	M42X2	76	72	50	FH605	47.22x3.53	1.396	345
	GWF605-38S	38S		M52X2						1.320	
2"	GWF606-30S	30S	79.6	M42X2	108	80	60	FH606	56.75x3.53	2.523	345
	GWF606-38S	38S		M52X2						2.446	

Specification:

- Flange adapter only: GWF601-16S, GWF601-16S-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE FLANGE ADAPTER-45° WITH MALE METRIC THREAD & 24° INNER CONE



GW45F--L/S

Material

- carbon steel Q345B
Cr+3 white zinked:GW45F***-L/S-CFX
Ni-Zn zinked :GW45F***-L/S-ZN
- AISI 321/304 :GW45F***-L/S-X
- AISI 316L :GW45F***-L/S-XX

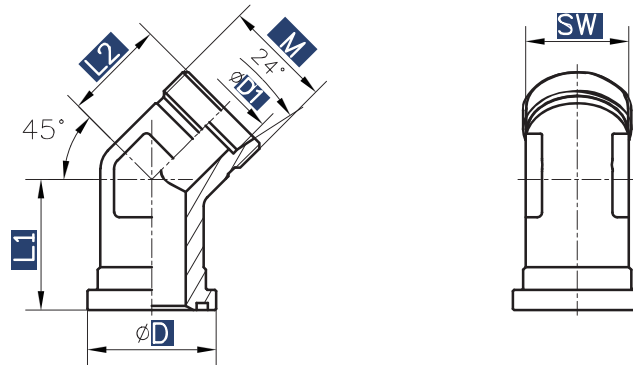
Series - 3000psi

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L1	L2	SW	Flange	o-ring		
1/2"	GW45F301-15L	15L	30.5	M22X1.5	39	32.5	24	FH301	18.66x3.53	0.189	345
	GW45F301-16S	16S		M24X1.5						0.193	345
3/4"	GW45F302-18L	18L	38.3	M26X1.5	40.15	32.5	30	FH302	25.00x3.53	0.268	345
	GW45F302-22L	22L		M30X2						0.259	160
	GW45F302-20S	20S		M30X2						0.273	345
	GW45F302-25S	25S		M36X2						0.283	345
1"	GW45F303-28L	28L	44.7	M36X2	47	37.35	36	FH303	32.92x3.53	0.387	160
	GW45F303-25S	25S		M36X2						0.418	345
	GW45F303-30S	30S		M42X2						0.423	345
1 1/4"	GW45F304-28L	28L	51	M36X2	51.8	40.4	41	FH304	37.70x3.53	0.617	160
	GW45F304-35L	35L		M45X2						0.601	160
	GW45F304-25S	25S		M36X2						0.588	276
	GW45F304-30S	30S		M42X2						0.608	276
	GW45F304-38S	38S		M52X2						0.655	276
1 1/2"	GW45F305-42L	42L	60.5	M52X2	60.45	45.2	50	FH305	47.22x3.53	0.821	160
	GW45F305-38S	38S		M52X2						0.913	207

Specification:

- Flange adapter only: GW45F301-15L, GW45F301-15L-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE FLANGE ADAPTER-45° WITH MALE METRIC THREAD & 24° INNER CONE



GW45F--L/S

Material

- carbon steel Q345B
Cr+3 white zinked:GW45F***-L/S-CFX
Ni-Zn zinked :GW45F***-L/S-ZN
- AISI 321/304 :GW45F***-L/S--X
- AISI 316L :GW45F***-L/S-XX

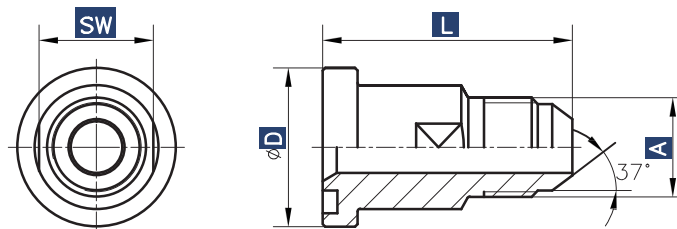
Series - 6000psi

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L1	L2	SW	Flange	o-ring		
1/2"	GW45F601-16S	16S	31.8	M24X1.5	39	32.5	24	FH601	18.66x3.53	0.200	414
3/4"	GW45F602-16S	16S	41.5	M24X1.5	40.15	32.5	32	FH602	25.00x3.53	0.342	414
	GW45F602-20S	20S		M30X2						0.340	
	GW45F602-25S	25S		M36X2						0.348	
1"	GW45F603-25S	25S	47.8	M36X2	47	37.35	41	FH603	32.92x3.53	0.550	414
	GW45F603-30S	30S		M42X2						0.544	
1 1/4"	GW45F604-30S	30S	54.2	M42X2	51.8	40.4	46	FH604	37.70x3.53	0.692	414
	GW45F604-38S	38S		M52X2						0.718	345
1 1/2"	GW45F605-30S	30S	63.7	M42X2	60.45	45.2	50	FH605	47.22x3.53	0.981	345
	GW45F605-38S	38S		M52X2						0.991	

Specification:

- Flange adapter only: GW45F601-16S, GW45F601-16S-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE FLANGE ADAPTER WITH MALE UN THREAD & 37° OUTER CONE



GSF--JIC

Material

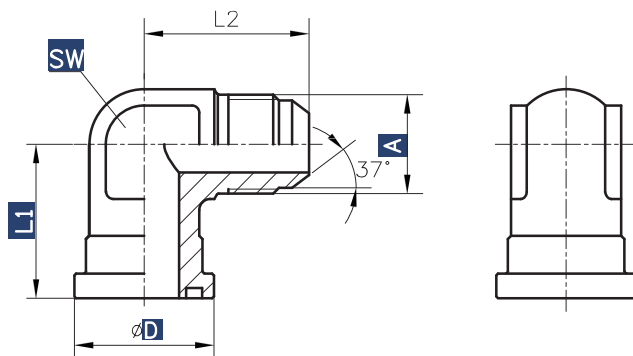
1. carbon steel C45
Cr+3 white zinked:GSF***-JIC--CFX
Ni-Zn zinked :GSF***-JIC--ZN
2. AISI 321/304 :GSF***-JIC--X
3. AISI 316L :GSF***-JIC--XX

Size (inch)	Type	dimension				Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L	SW	Flange	o-ring		
3000 psi									
1/2"	GSF301-JIC3/4	¾"-16UNF	30.5	48	22	FH301	18.66x3.53	0.117	345
	GSF301-JIC7/8	⅞"-14UN						0.111	
3/4"	GSF302-JIC1⅙ ₁₆	1⅙"-12UN	38.3	55	30	FH302	25.00x3.53	0.212	345
1"	GSF303-JIC1⅙ ₁₆	1⅙"-12UN	44.7	55	36	FH303	32.92x3.53	0.295	345
	GSF303-JIC1⅝ ₁₆	1⅝"-12UN						0.275	
11/4"	GSF304-JIC1⅝ ₁₆	1⅝"-12UN	51	58	41	FH304	37.70x3.53	0.374	276
	GSF304-JIC1⅝ ₈	1⅝"-12UN						0.353	
11/2"	GSF305-JIC1⅞ ₈	1⅞"-12UN	60.5	62	46	FH305	47.22x3.53	0.484	207
2"	GSF306-JIC2½ ₂	2½"-12UN	71.6	80	55	FH306	56.75x3.53	0.896	207
6000 psi									
1/2"	GSF601-JIC3/4	¾"-16UNF	31.8	50	22	FH601	18.66x3.53	0.129	345
	GSF601-JIC7/8	⅞"-14UN						0.123	
3/4"	GSF602-JIC1⅙ ₁₆	1⅙"-12UN	41.5	64	30	FH602	25.00x3.53	0.275	345
1"	GSF603-JIC1⅙ ₁₆	1⅙"-12UN	47.8	72	36	FH603	32.92x3.53	0.443	345
	GSF603-JIC1⅝ ₁₆	1⅝"-12UN						0.400	
11/4"	GSF604-JIC1⅝ ₁₆	1⅝"-12UN	54.2	81	41	FH604	37.70x3.53	0.619	345
	GSF604-JIC1⅝ ₈	1⅝"-12UN						0.556	276
11/2"	GSF605-JIC1⅞ ₈	1⅞"-12UN	63.7	86	46	FH605	47.22x3.53	0.777	207
2"	GSF606-JIC2½ ₂	2½"-12UN	79.6	90	55	FH606	56.75x3.53	1.258	207

Specification:

1. Flange adapter only: GSF301-JIC3/4, GSF301-JIC3/4-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER -90° WITH MALE UN THREAD & 37° OUTER CONE



GWF--JIC

Material

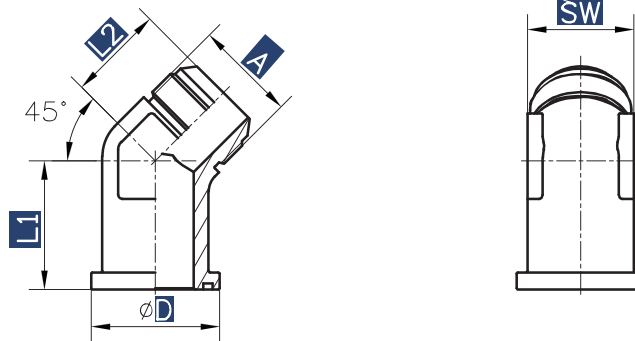
1. carbon steel Q345B
Cr+3 white zinked :GWF***-JIC-CFX
Ni-Zn zinked :GWF***-JIC-ZN
2. AISI 321/304 :GWF***-JIC-X
3. AISI 316L :GWF***-JIC-XX

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (K /cm ²) g
		A	D	L1	L2	SW	Flange	o-ring		
3000 psi										
1/2"	GWF301-JIC3/4	¾"-16UNF	30.5	39	38	24	FH301	18.66x3.53	0.197	345
	GWF301-JIC7/8	⅞"-14UN							0.194	
3/4"	GWF302-JIC7/8	⅞"-14UN	38.3	42	45	30	FH302	25.00x3.53	0.317	345
	GWF302-JIC1⅛	1⅛"-12UN							0.311	
1"	GWF303-JIC1⅛	1⅛"-12UN	44.7	45	50	36	FH303	32.92x3.53	0.459	345
	GWF303-JIC1⅝	1⅝"-12UN							0.439	
11/4"	GWF304-JIC1⅝	1⅝"-12UN	51	50	59	41	FH304	37.70x3.53	0.702	276
	GWF304-JIC1⅝	1⅝"-12UN							0.675	
11/2"	GWF305-JIC1⅝	1⅝"-12UN	60.3	55	64	50	FH305	47.22x3.53	1.007	207
	GWF305-JIC1⅞	1⅞"-12UN							0.957	
2"	GWF306-JIC1⅞	1⅞"-12UN	71.6	108	77.7	60	FH306	56.75x3.53	2.082	207
	GWF306-JIC2½	2½"-12UN							1.969	
6000 psi										
1/2"	GWF601-JIC3/4	¾"-16UNF	31.8	39	38	24	FH601	18.66x3.53	0.203	414
	GWF601-JIC7/8	⅞"-14UN							0.201	
3/4"	GWF602-JIC7/8	⅞"-14UN	41.5	48	48	32	FH602	25.00x3.53	0.434	414
	GWF602-JIC1⅛	1⅛"-12UN							0.424	
1"	GWF603-JIC1⅛	1⅛"-12UN	47.8	60	55	41	FH603	32.92x3.53	0.754	414
	GWF603-JIC1⅝	1⅝"-12UN							0.724	
11/4"	GWF604-JIC1⅝	1⅝"-12UN	54.2	68	61	46	FH604	37.70x3.53	0.965	414
	GWF604-JIC1⅝	1⅝"-12UN							0.929	
11/2"	GWF605-JIC1⅝	1⅝"-12UN	63.7	76	72	50	FH605	47.22x3.53	1.321	414
	GWF605-JIC1⅞	1⅞"-12UN							1.252	
2"	GWF606-JIC1⅞	1⅞"-12UN	79.6	108	77.7	60	FH606	56.75x3.53	2.302	414
	GWF606-JIC2½	2½"-12UN							2.187	

Specification:

1. Flange adapter only: GWF301-JIC3/4, GWF301-JIC3/4-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER -45° WITH MALE UN THREAD & 37° OUTER CONE



GW45F--JIC

Material

1. carbon steel Q345B

Cr+3 white zinked :GW45F***-JIC--CFX

Ni-Zn zinked :GW45F***-JIC-ZN

2. AISI 321/304 :GW45F***-JIC-X

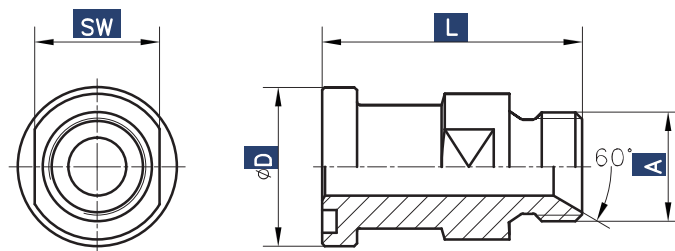
3. AISI 316L :GW45F***-JIC-XX

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L1	L2	SW	Flange	o-ring		
3000 psi										
1/2"	GW45F301-JIC3/4	¾"-16UNF	30.5	39	32.5	24	FH301	18.66x3.53	0.182	345
	GW45F301-JIC7/8	⅞"-14UN							0.181	
3/4"	GW45F302-JIC7/8	⅞"-14UN	38.3	40.15	32.5	30	FH302	25.00x3.53	0.251	345
	GW45F302-JIC1⅙ ₁₆	1⅙"-12UN							0.254	
1"	GW45F303-JIC1⅙ ₁₆	1⅙"-12UN	44.7	47	37.35	36	FH303	32.92x3.53	0.383	345
	GW45F303-JIC1⅝ ₁₆	1⅝"-12UN							0.382	
11/4"	GW45F304-JIC1⅝ ₁₆	1⅝"-12UN	51	51.8	40.4	41	FH304	37.70x3.53	0.568	276
	GW45F304-JIC1⅝ ₈	1⅝"-12UN							0.567	
11/2"	GW45F305-JIC1⅝ ₈	1⅝"-12UN	60.5	60.45	45.2	50	FH305	47.22x3.53	0.839	207
	GW45F305-JIC1⅞ ₈	1⅞"-12UN							0.824	
6000 psi										
1/2"	GW45F601-JIC3/4	¾"-16UNF	31.8	39	32.5	24	FH601	18.66x3.53	0.189	414
	GW45F601-JIC7/8	⅞"-14UN							0.188	
3/4"	GW45F602-JIC7/8	⅞"-14UN	41.5	40.15	32.5	32	FH602	25.00x3.53	0.316	414
	GW45F602-JIC1⅙ ₁₆	1⅙"-12UN							0.316	
1"	GW45F603-JIC1⅙ ₁₆	1⅙"-12UN	47.8	47	37.35	41	FH603	32.92x3.53	0.495	414
	GW45F603-JIC1⅝ ₁₆	1⅝"-12UN							0.493	
11/4"	GW45F604-JIC1⅝ ₁₆	1⅝"-12UN	54.2	51.8	40.4	46	FH604	37.70x3.53	0.642	414
	GW45F604-JIC1⅝ ₈	1⅝"-12UN							0.643	
11/2"	GW45F605-JIC1⅝ ₈	1⅝"-12UN	63.7	60.45	45.2	50	FH605	47.22x3.53	0.915	414
	GW45F605-JIC1⅞ ₈	1⅞"-12UN							0.899	

Specification:

1. Flange adapter only: GW45F301-JIC3/4, GW45F301-JIC3/4-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER WITH MALE BSPP THREAD & 60° INNER CONE



GSF--G

Material

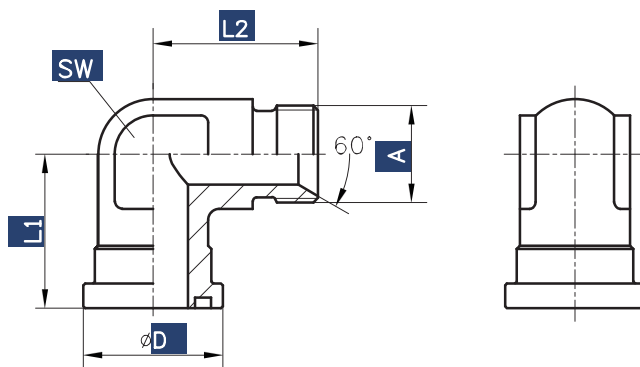
1. carbon steel C45
Cr+3 white zinked :GSF***-G--CFX
Ni-Zn zinked :GSF***-G--ZN
2. AISI 321/304 :GSF***-G--X
3. AISI 316L :GSF***-G--XX

Size (inch)	Type	dimension				Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L	SW	Flange	o-ring		
3000 psi									
1/2"	GSF301-G3/8	G3/8"	30.5	50	24	FH301	18.66x3.53	0.155	345
	GSF301-G1/2	G1/2"						0.142	
3/4"	GSF302-G1/2	G1/2"	38.3	55	30	FH302	25.00x3.53	0.246	345
	GSF302-G3/4	G3/4"						0.231	
1"	GSF303-G3/4	G3/4"	44.7	60	36	FH303	32.92x3.53	0.384	345
	GSF303-G1	G1"						0.331	
11/4"	GSF304-G1	G1"	51	65	41	FH304	37.70x3.53	0.509	276
	GSF304-G1¼	G1¼"						0.447	
11/2"	GSF305-G1¼	G1¼"	60.5	70	46	FH305	47.22x3.53	0.684	207
	GSF305-G1½	G1½"						0.613	
2"	GSF306-G2	G2"	71.6	75	55	FH306	56.75x3.53	0.810	207
6000 psi									
1/2"	GSF601-G3/8	G3/8"	31.8	50	24	FH601	18.66x3.53	0.157	414
	GSF601-G1/2	G1/2"						0.144	
3/4"	GSF602-G1/2	G1/2"	41.5	60	30	FH602	25.00x3.53	0.292	414
	GSF602-G3/4	G3/4"						0.272	
1"	GSF603-G3/4	G3/4"	47.8	70	36	FH603	32.92x3.53	0.426	414
	GSF603-G1	G1"						0.409	
11/4"	GSF604-G1	G1"	54.2	75	41	FH604	37.70x3.53	0.541	414
	GSF604-G1¼	G1¼"						0.538	
11/2"	GSF605-G1¼	G1¼"	63.7	80	46	FH605	47.22x3.53	0.847	414
	GSF605-G1½	G1½"						0.759	
2"	GSF606-G2	G2"	79.6	95	55	FH606	56.75x3.53	1.288	414

Specification:

1. Flange adapter only: GSF301-G3/8, GSF301-G3/8-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER -90° WITH MALE BSPP THREAD & 60° INNER CONE



GWF--G

Material

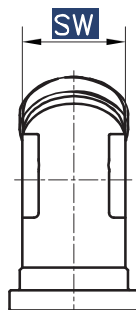
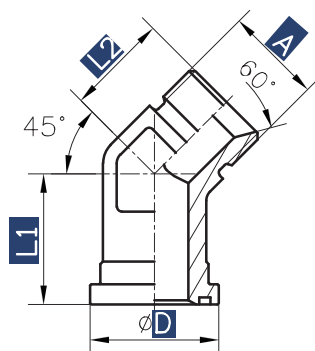
- carbon steel Q345B
Cr+3 white zinked :GWF***-G-CFX
Ni-Zn zinked :GWF***-G-ZN
- AISI 321/304 :GWF***-G-X
- AISI 316L :GWF***-G-XX

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L1	L2	SW	Flange	o-ring		
3000 psi										
1/2"	GWF301-G3/8	G3/8"	30.5	39	38	24	FH301	18.66x3.53	0.205	345
	GWF301-G1/2	G1/2"							0.201	
3/4"	GWF302-G1/2	G1/2"	38.3	42	45	30	FH302	25.00x3.53	0.337	345
	GWF302-G3/4	G3/4"							0.311	
1"	GWF303-G3/4	G3/4"	44.7	45	50	36	FH303	32.92x3.53	0.465	345
	GWF303-G1	G1"							0.440	
11/4"	GWF304-G1	G1"	51	50	59	41	FH304	37.70x3.53	0.704	276
	GWF304-G1¼	G1¼"							0.669	
11/2"	GWF305-G1¼	G1¼"	60.3	55	64	50	FH305	47.22x3.53	1.019	207
	GWF305-G1½	G1½"							0.968	
2"	GWF306-G1½	G1½"	71.6	108	80	60	FH306	56.75x3.53	2.148	207
	GWF306-G2	G2"							1.926	
6000 psi										
1/2"	GWF601-G3/8	G3/8"	31.8	39	38	24	FH601	18.66x3.53	0.212	414
	GWF601-G1/2	G1/2"							0.207	
3/4"	GWF602-G1/2	G1/2"	41.5	48	48	32	FH602	25.00x3.53	0.449	414
	GWF602-G3/4	G3/4"							0.427	
1"	GWF603-G3/4	G3/4"	47.8	60	55	41	FH603	32.92x3.53	0.764	414
	GWF603-G1	G1"							0.729	
11/4"	GWF604-G1	G1"	54.2	68	61	46	FH604	37.70x3.53	0.970	414
	GWF604-G1¼	G1¼"							0.931	
11/2"	GWF605-G1¼	G1¼"	63.7	76	72	50	FH605	47.22x3.53	1.318	414
	GWF605-G1½	G1½"							1.263	
2"	GWF606-G1½	G1½"	79.6	108	80	60	FH606	56.75x3.53	2.369	414
	GWF606-G2	G2"							2.149	

Specification:

- Flange adapter only: GWF301-G3/8, GWF301-G3/8-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER -45° WITH MALE BSPP THREAD & 60° INNER CONE



GW45F--G

Material

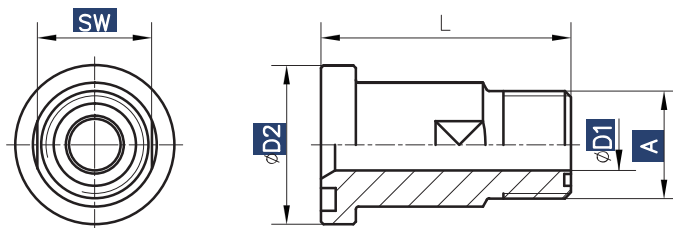
- carbon steel Q345B
Cr+3 white zinked :GW45F***-G-CFX
Ni-Zn zinked :GW45F***-G-ZN
- AISI 321/304 :GW45F***-G-X
- AISI 316L :GW45F***-G-XX

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L1	L2	SW	Flange	o-ring		
3000 psi										
1/2"	GW45F301-G1/2	G1/2"	30.5	39	32.5	24	FH301	18.66x3.53	0.188	345
3/4"	GW45F302-G1/2	G1/2"	38.3	40.15	32.5	30	FH302	25.00x3.53	0.268	345
	GW45F302-G3/4	G3/4"							0.258	
1"	GW45F303-G3/4	G3/4"	44.7	47	37.35	36	FH303	32.92x3.53	0.402	345
	GW45F303-G1	G1"							0.389	
11/4"	GW45F304-G1	G1"	51	51.8	40.4	41	FH304	37.70x3.53	0.569	276
	GW45F304-G1¼	G1¼"							0.568	
11/2"	GW45F305-G1¼	G1¼"	60.5	60.45	45.2	50	FH305	47.22x3.53	0.861	207
	GW45F305-G1½	G1½"							0.840	
6000 psi										
1/2"	GW45F601-G1/2	G1/2"	31.8	39	32.5	24	FH601	18.66x3.53	0.195	414
3/4"	GW45F602-G1/2	G1/2"	41.5	40.15	32.5	32	FH602	25.00x3.53	0.338	414
	GW45F602-G3/4	G3/4"							0.324	
1"	GW45F603-G3/4	G3/4"	47.8	47	37.35	41	FH603	32.92x3.53	0.539	414
	GW45F603-G1	G1"							0.520	
11/4"	GW45F604-G1	G1"	54.2	51.8	40.4	46	FH604	37.70x3.53	0.666	414
	GW45F604-G1¼	G1¼"							0.657	
11/2"	GW45F605-G1¼	G1¼"	63.7	60.45	45.2	50	FH605	47.22x3.53	0.940	414
	GW45F605-G1½	G1½"							0.915	

Specification:

- Flange adapter only: GW45F301-G1/2, GW45F301-G1/2-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER WITH MALE UN THREAD & ORFS



GSF--OR

Material

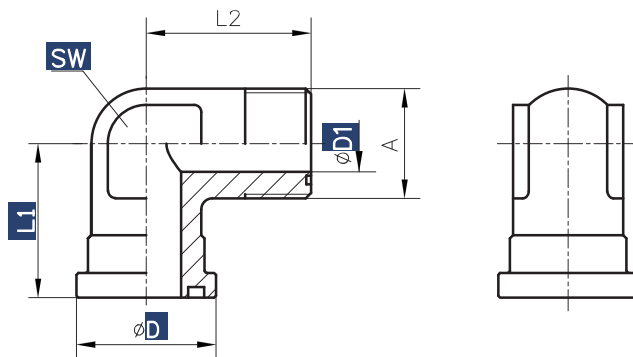
1. carbon steel C45
Cr+3 white zinked :GSF***-OR--CFX
Ni-Zn zinked :GSF***-OR--ZN
2. AISI 321/304 :GSF***-OR--X
3. AISI 316L :GSF***-OR--XX

Size (inch)	Type	dimension					Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D1	D2	L	SW	Flange	o-ring	o-ring		
3000 psi											
1/2"	GSF301-OR ¹³ / ₁₆	¹³ / ₁₆ "-16UN	9.5	30.5	48	22	FH301	12.42x1.78	18.66x3.53	0.131	345
	GSF301-OR1	1"-14UNS	12.5					15.6x1.78		0.130	
3/4"	GSF302-OR ¹³ / ₁₆	¹³ / ₁₆ "-12UN	15.5	38.3	53	30	FH302	18.77x1.78	25.00x3.53	0.240	345
1"	GSF303-OR ¹⁷ / ₁₆	¹⁷ / ₁₆ "-12UN	20.5	44.7	54	36	FH303	23.52x1.78	32.92x3.53	0.329	345
1 1/4"	GSF304-OR ¹¹ / ₁₆	¹¹ / ₁₆ "-12UN	26	51	58	41	FH304	29.87x1.78	37.70x3.53	0.422	276
1 1/2"	GSF305-OR2	2"-12UN	32	60.5	60	46	FH305	37.82x1.78	47.22x3.53	0.563	207
2"	GSF306-OR2	2"-12UN	32	71.6	65	55	FH306	37.82x1.78	56.75x3.53	0.956	207
6000 psi											
1/2"	GSF601-OR ¹³ / ₁₆	¹³ / ₁₆ "-16UN	9.5	31.8	48	22	FH601	12.42x1.78	18.66x3.53	0.138	414
	GSF601-OR1	1"-14UNS	12.5					15.6x1.78		0.137	
3/4"	GSF602-OR ¹³ / ₁₆	¹³ / ₁₆ "-12UN	15.5	41.5	58	30	FH602	18.77x1.78	25.00x3.53	0.284	414
1"	GSF603-OR ¹⁷ / ₁₆	¹⁷ / ₁₆ "-12UN	20.5	47.8	66	36	FH603	23.52x1.78	32.92x3.53	0.427	414
1 1/4"	GSF604-OR ¹¹ / ₁₆	¹¹ / ₁₆ "-12UN	26	54.2	70	41	FH604	29.87x1.78	37.70x3.53	0.556	345
1 1/2"	GSF605-OR2	2"-12UN	32	63.7	78	46	FH605	37.82x1.78	47.22x3.53	0.812	345
2"	GSF606-OR2	2"-12UN	32	79.6	85	55	FH606	37.82x1.78	56.75x3.53	1.601	345

Specification:

1. Flange adapter only: GSF301-OR¹³/₁₆, GSF301-OR¹³/₁₆-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER -90° WITH MALE UN THREAD & ORFS



GWF--OR

Material

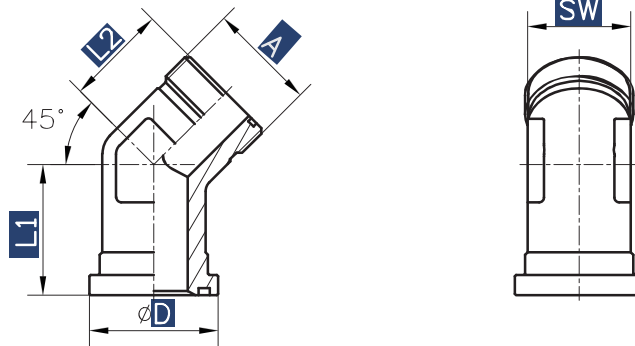
1. carbon steel Q345B
Cr+3 white zinked :GWF***-OR-CFX
Ni-Zn zinked :GWF***-OR--ZN
2. AISI 321/304 :GWF***-OR-X
3. AISI 316L :GWF***-OR--XX

Size (inch)	Type	dimension						Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D1	D	L1	L2	SW	Flange	o-ring	o-ring		
3000 psi												
1/2"	GWF301-OR ¹³ / ₁₆	¹³ / ₁₆ "-16UN	9.5	30.5	39	38	24	FH301	12.42x1.78	18.66x3.53	0.212	345
3/4"	GWF302-OR1	1"-14UNS	12.5	38.3	42	45	30	FH302	15.6x1.78	25.00x3.53	0.344	345
	GWF302-OR ¹³ / ₁₆	¹³ / ₁₆ "-12UN	15.5						18.77x1.78		0.344	
1"	GWF303-OR ¹³ / ₁₆	¹³ / ₁₆ "-12UN	15.5	44.7	45	50	36	FH303	18.77x1.78	32.92x3.53	0.504	345
	GWF303-OR ¹⁷ / ₁₆	¹⁷ / ₁₆ "-12UN	20.5						23.52x1.78		0.491	
1 1/4"	GWF304-OR ¹⁷ / ₁₆	¹⁷ / ₁₆ "-12UN	20.5	51	50	59	41	FH304	23.52x1.78	37.70x3.53	0.772	276
	GWF304-OR ¹¹ / ₁₆	¹¹ / ₁₆ "-12UN	26						29.87x1.78		0.734	
1 1/2"	GWF305-OR ¹¹ / ₁₆	¹¹ / ₁₆ "-12UN	26	60.5	55	64	50	FH305	29.87x1.78	47.22x3.53	1.112	207
	GWF305-OR2	2"-12UN	32						37.82x1.78		1.060	
2"	GWF306-OR2	2"-12UN	32	71.6	108	80	60	FH306	37.82x1.78	56.75x3.53	2.294	207
6000 psi												
1/2"	GWF601-OR ¹³ / ₁₆	¹³ / ₁₆ "-16UN	9.5	31.8	39	38	24	FH601	12.42x1.78	18.66x3.53	0.219	414
3/4"	GWF602-OR1	1"-14UNS	12.5	41.5	48	48	32	FH602	15.6x1.78	25.00x3.53	0.465	414
	GWF602-OR ¹³ / ₁₆	¹³ / ₁₆ "-12UN	15.5						18.77x1.78		0.463	
1"	GWF603-OR ¹³ / ₁₆	¹³ / ₁₆ "-12UN	15.5	47.8	60	55	41	FH603	18.77x1.78	32.92x3.53	0.811	414
	GWF603-OR ¹⁷ / ₁₆	¹⁷ / ₁₆ "-12UN	20.5						23.52x1.78		0.794	
1 1/4"	GWF604-OR ¹⁷ / ₁₆	¹⁷ / ₁₆ "-12UN	20.5	54.2	68	61	46	FH604	23.52x1.78	37.70x3.53	1.051	345
	GWF604-OR ¹¹ / ₁₆	¹¹ / ₁₆ "-12UN	26						29.87x1.78		1.012	
1 1/2"	GWF605-OR ¹¹ / ₁₆	¹¹ / ₁₆ "-12UN	26	63.7	76	72	50	FH605	29.87x1.78	47.22x3.53	1.425	345
	GWF605-OR2	2"-12UN	32						37.82x1.78		1.357	
2"	GWF606-OR2	2"-12UN	32	79.6	108	80	60	FH606	37.82x1.78	56.75x3.53	2.518	345

Specification:

1. Flange adapter only: GWF301-OR¹³/₁₆, GWF301-OR¹³/₁₆-X
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE FLANGE ADAPTER -45° WITH MALE UN THREAD & ORFS



GW45F--OR

Material

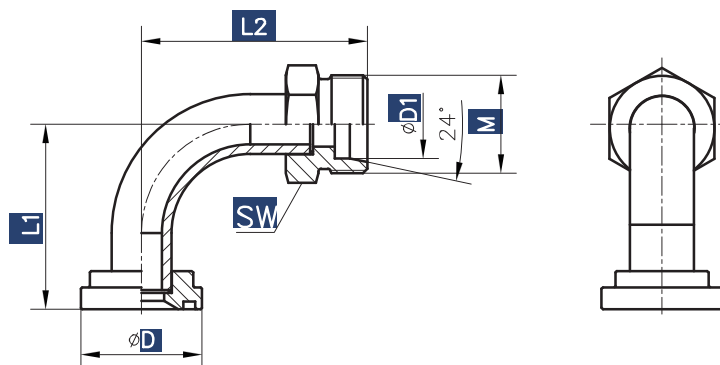
- carbon steel Q345B
Cr+3 white zinked :GW45F***-OR-CFX
Ni-Zn zinked :GW45F***-OR--ZN
- AISI 321/304 :GW45F***-OR--X
- AISI 316L :GW45F***-OR-XX

Size (inch)	Type	dimension					Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L1	L2	SW	Flange	o-ring	o-ring		
3000 psi											
1/2"	GW45F301-OR ¹³ ₁₆	¹³ ₁₆ "-16UN	30.5	39	32.5	24	FH301	12.42x1.78	18.66x3.53	0.198	345
3/4"	GW45F302-OR1	1"-14UNS	38.3	40.15	32.5	30	FH302	15.6x1.78	25.00x3.53	0.280	345
	GW45F302-OR1 ³ ₁₆	¹³ ₁₆ "-12UN						18.77x1.78		0.288	
1"	GW45F303-OR1 ³ ₁₆	¹³ ₁₆ "-12UN	44.7	47	37.35	36	FH303	18.77x1.78	32.92x3.53	0.429	345
	GW45F303-OR1 ⁷ ₁₆	¹⁷ ₁₆ "-12UN						23.52x1.78		0.432	
11/4"	GW45F304-OR1 ⁷ ₁₆	¹⁷ ₁₆ "-12UN	51	51.8	40.4	41	FH304	23.52x1.78	37.70x3.53	0.634	276
	GW45F304-OR1 ¹¹ ₁₆	¹¹ ₁₆ "-12UN						29.87x1.78		0.625	
11/2"	GW45F305-OR1 ¹¹ ₁₆	¹¹ ₁₆ "-12UN	60.5	60.45	45.2	50	FH305	29.87x1.78	47.22x3.53	0.936	207
	GW45F305-OR2	2"-12UN						37.82x1.78		0.916	
6000 psi											
1/2"	GW45F601-OR ¹³ ₁₆	¹³ ₁₆ "-16UN	31.8	39	32.5	24	FH601	12.42x1.78	18.66x3.53	0.205	414
3/4"	GW45F602-OR1	1"-14UNS	41.5	40.15	32.5	32	FH602	15.6x1.78	25.00x3.53	0.347	414
	GW45F602-OR1 ³ ₁₆	¹³ ₁₆ "-12UN						18.77x1.78		0.353	
1"	GW45F603-OR1 ³ ₁₆	¹³ ₁₆ "-12UN	47.8	47	37.35	41	FH603	18.77x1.78	32.92x3.53	0.565	414
	GW45F603-OR1 ⁷ ₁₆	¹⁷ ₁₆ "-12UN						23.52x1.78		0.570	
11/4"	GW45F604-OR1 ⁷ ₁₆	¹⁷ ₁₆ "-12UN	54.2	51.8	40.4	46	FH604	23.52x1.78	37.70x3.53	0.725	345
	GW45F604-OR1 ¹¹ ₁₆	¹¹ ₁₆ "-12UN						29.87x1.78		0.716	
11/2"	GW45F605-OR1 ¹¹ ₁₆	¹¹ ₁₆ "-12UN	63.7	60.45	45.2	50	FH605	29.87x1.78	47.22x3.53	1.011	345
	GW45F605-OR2	2"-12UN						37.82x1.78		0.992	

Specification:

- Flange adapter only: GW45F302-OR1³/₁₆, GW45F302-OR1³/₁₆-X
- Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE BRAZED ADAPTER-90° WITH MALE METRIC THREAD & 24° INNER CONE



BR-GWF--L/S

Material

1. carbon steel C20

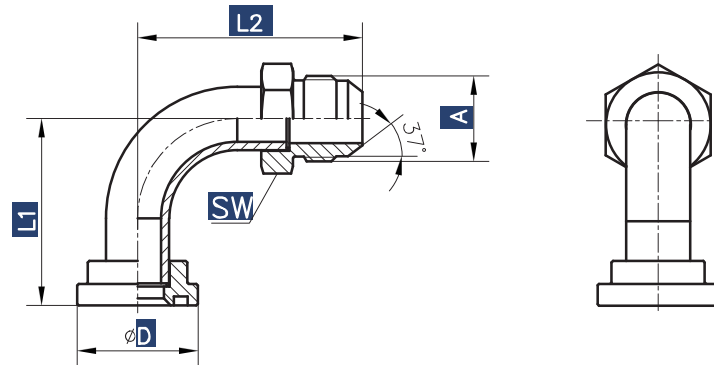
Cr+3 white zinked:BR-GWF***-L/S-CFX

Ni-Zn zinked :BR-GWF***-L/S--ZN

Size (inch)	Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		ØD1	D	M	L1	L2	SW	Flange	o-ring		
3000 psi											
3/4"	BR-GWF302-18L	18L	38.3	M26X1.5	59	71	27	FH302	25.00x3.53	0.222	160
	BR-GWF302-22L	22L		M30X2			30			0.244	160
	BR-GWF302-20S	20S		M30X2			36			0.255	345
	BR-GWF302-25S	25S		M36X2			36			0.307	345
1"	BR-GWF303-28L	28L	44.7	M36X2	68	83	36	FH303	32.92x3.53	0.408	160
	BR-GWF303-25S	25S		M36X2			46			0.424	345
	BR-GWF303-30S	30S		M42X2			46			0.559	345
11/4"	BR-GWF304-35L	35L	51	M45X2	86	105	46	FH304	37.70x3.53	0.596	160
	BR-GWF304-25S	25S		M36X2			41			0.552	207
	BR-GWF304-30S	30S		M42X2			46			0.606	207
11/2"	BR-GWF305-42L	42L	60.5	M52X2	98	115	55	FH305	47.22x3.53	0.847	160
	BR-GWF305-38S	38S								1.152	207
6000 psi											
3/4"	BR-GWF602-16S	16S	41.5	M24X1.5	62	71	30	FH602	25.00x3.53	0.312	414
	BR-GWF602-20S	20S		M30X2			36			0.324	414
	BR-GWF602-25S	25S		M36X2			46			0.385	414
	BR-GWF602-30S	30S		M42X2			46			0.490	414
1"	BR-GWF603-25S	25S	47.8	M36X2	74	85	36	FH603	32.92x3.53	0.494	414
	BR-GWF603-30S	30S		M42X2			46			0.627	414
11/4"	BR-GWF604-30S	30S	54.2	M42X2	96	107	46	FH604	37.70x3.53	0.924	345
	BR-GWF604-38S	38S		M52X2			55			1.086	345
11/2"	BR-GWF605-38S	38S	63.7	M52X2	114	112	55	FH605	47.22x3.53	1.348	345

1. Brazed adapter only: BR-GWF302-18L-CFX
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Adapter with flanges, bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE BRAZED ADAPTER-90° WITH MALE UN THREAD & 37° OUTER CONE



BR-GWF--JIC

Material

1. carbon steel C20

Cr+3 white zinked:BR-GWF***-JIC-CFX

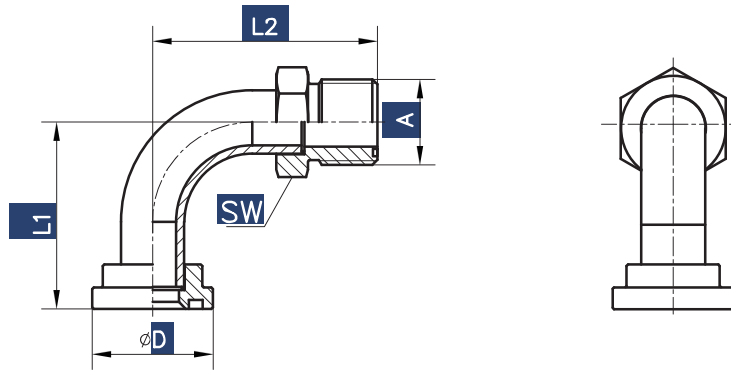
Ni-Zn zinked :BR-GWF***-JIC--ZN

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L1	L2	SW	Flange	o-ring		
3000 psi										
3/4"	BR-GWF302-JIC7/8	7/8"-14UN	38.3	59	71	27	FH302	25.00x3.53	0.221	345
	BR-GWF302-JIC1 1/16	1 1/16"-12UN				30			0.246	
1"	BR-GWF303-JIC1 1/16	1 1/16"-12UN	44.7	68	83	30	FH303	32.92x3.53	0.353	345
	BR-GWF303-JIC1 5/16	1 5/16"-12UN				36			0.443	
1 1/4"	BR-GWF304-JIC1 5/16	1 5/16"-12UN	51	86	105	41	FH304	37.70x3.53	0.540	207
	BR-GWF304-JIC1 5/8	1 5/8"-12UN				46			0.603	
1 1/2"	BR-GWF305-JIC1 5/8	1 5/8"-12UN	60.3	98	115	46	FH305	47.22x3.53	0.971	207
	BR-GWF305-JIC1 7/8	1 7/8"-12UN				55			1.076	
6000 psi										
3/4"	BR-GWF602-JIC7/8	7/8"-14UN	41.5	62	71	30	FH602	25.00x3.53	0.301	414
	BR-GWF602-JIC1 1/16	1 1/16"-12UN							0.320	
1"	BR-GWF603-JIC1 1/16	1 1/16"-12UN	47.8	74	85	30	FH603	32.92x3.53	0.424	414
	BR-GWF603-JIC1 5/16	1 5/16"-12UN				36			0.510	
1 1/4"	BR-GWF604-JIC1 5/16	1 5/16"-12UN	54.2	96	107	46	FH604	37.70x3.53	0.864	345
	BR-GWF604-JIC1 5/8	1 5/8"-12UN							0.891	
1 1/2"	BR-GWF605-JIC1 5/8	1 5/8"-12UN	63.7	114	112	46	FH605	47.22x3.53	1.167	345
	BR-GWF605-JIC1 7/8	1 7/8"-12UN				55			1.273	

Specification:

1. Brazed adapter only: BR-GWF302-JIC7/8-CFX
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE BRAZED ADAPTER-90° WITH MALE UN THREAD & ORFS



BR-GWF--OR

Material

1. carbon steel C20

Cr+3 white zinked:BR-GWF***-OR--CFX

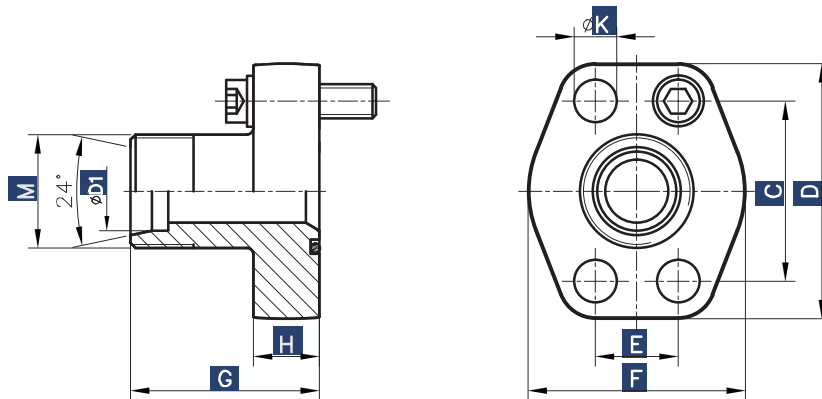
Ni-Zn zinked :BR-GWF***-OR--ZN

Size (inch)	Type	dimension					Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
		A	D	L1	L2	SW	Flange	o-ring		
3000 psi										
3/4"	BR-GWF302-OR1	1"-14UNS	38.3	59	71	27	FH302	25.00x3.53	0.235	345
	BR-GWF302-OR1 ³ / ₁₆	1 ³ / ₁₆ "-12UN				36			0.292	
1"	BR-GWF303-OR1 ³ / ₁₆	1 ³ / ₁₆ "-12UN	44.7	68	83	36	FH303	32.92x3.53	0.406	345
	BR-GWF303-OR1 ⁷ / ₁₆	1 ⁷ / ₁₆ "-12UN				41			0.507	
11/4"	BR-GWF304-OR1 ⁷ / ₁₆	1 ⁷ / ₁₆ "-12UN	51	86	105	41	FH304	37.70x3.53	0.572	207
	BR-GWF304-OR1 ¹¹ / ₁₆	1 ¹¹ / ₁₆ "-12UN				46			0.626	
11/2"	BR-GWF305-OR1 ¹¹ / ₁₆	1 ¹¹ / ₁₆ "-12UN	60.3	98	115	46	FH305	47.22x3.53	1.005	207
	BR-GWF305-OR2	2"-12UN				55			1.114	
6000 psi										
3/4"	BR-GWF602-OR1	1"-14UNS	41.5	62	71	30	FH602	25.00x3.53	0.317	414
	BR-GWF602-OR1 ³ / ₁₆	1 ³ / ₁₆ "-12UN				36			0.362	
1"	BR-GWF603-OR1 ³ / ₁₆	1 ³ / ₁₆ "-12UN	47.8	74	85	36	FH603	32.92x3.53	0.478	414
	BR-GWF603-OR1 ⁷ / ₁₆	1 ⁷ / ₁₆ "-12UN				41			0.574	
11/4"	BR-GWF604-OR1 ⁷ / ₁₆	1 ⁷ / ₁₆ "-12UN	54.2	96	107	46	FH604	37.70x3.53	0.902	345
	BR-GWF604-OR1 ¹¹ / ₁₆	1 ¹¹ / ₁₆ "-12UN				46			0.923	
11/2"	BR-GWF605-OR1 ¹¹ / ₁₆	1 ¹¹ / ₁₆ "-12UN	63.7	114	112	46	FH605	47.22x3.53	1.202	345
	BR-GWF605-OR2	2"-12UN				55			1.310	

Specification:

1. Brazed adapter only: BR-GWF302-OR1-CFX
2. Adapter with flanges, bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE MALE THREAD FLANGE WITH METRIC THREAD & 24° INNER CONE



AFM

Material

- carbon steel Q345B
Blank oiled :AFM***
Cr+3 white zinked :AFM***-CFX
Ni-Zn zinked :AFM***-ZN
- AISI 321/304 :AFM***-X
- AISI 316L :AFM***-XX

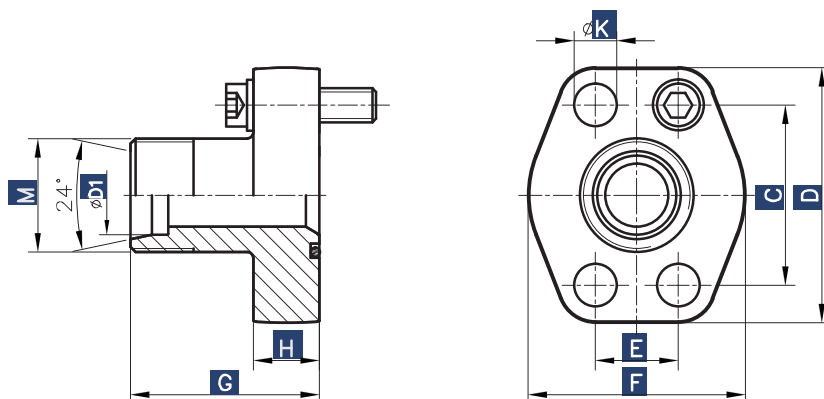
Series - 3000psi

Size (inch)	Type	dimension									Accessories for use			Wt (kg)	MAX.W.P ($\frac{\text{kg}}{\text{cm}^2}$)
		ØD1	C	D	E	F	G	H	K	M	bolt		o-ring		
1/2"	AFM301-12S	12S	38.10	54	17.48	46	47	16	9	M20x1.5	M8x30	5/16x1 1/4	18.66x3.53	0.272	345
	AFM301-15L	15L								M22x1.5				0.266	345
	AFM301-16S	16S								M24x1.5				0.281	345
3/4"	AFM302-16S	16S	47.63	65	22.23	50	52	18	11	M24x1.5	M10x35	3/8x1 1/2	25.00x3.53	0.394	345
	AFM302-18L	18L								M26x1.5				0.392	160
	AFM302-20S	20S								M30x2				0.423	345
	AFM302-22L	22L								M30x2				0.392	160
1"	AFM303-20S	20S	52.37	70	26.19	55	60	18	11	M30x2	M10x35	3/8x1 1/2	32.92x3.53	0.518	345
	AFM303-25S	25S								M36x2				0.567	345
	AFM303-28L	28L								M36x2				0.510	160
1 1/4"	AFM304-25S	25S	58.72	79	30.18	68	60	21	11.5	M36x2	M10x40	7/16x1 1/2	37.70x3.53	0.781	276
	AFM304-30S	30S								M42x2				0.814	276
	AFM304-35L	35L								M45x2				0.783	160
1 1/2"	AFM305-35L	35L	69.85	93	35.71	78	70	25	13.5	M45x2	M12x45	1/2x1 3/4	47.22x3.53	1.207	160
	AFM305-38S	38S								M52x2				1.325	207
	AFM305-42L	42L								M52x2				1.223	160
2"	AFM306-38S	38S	77.77	102	42.88	90	72	25	13.5	M52x2	M12x45	1/2x1 3/4	56.75x3.53	1.597	207
	AFM306-42L	42L								M52x2				1.510	160

Specification:

- Flange only: AFM301-12S, AFM301-12S-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE MALE THREAD FLANGE WITH METRIC THREAD & 24° INNER CONE



AFM

Material

- carbon steel Q345B
Blank oiled :AFM***
Cr+3 white zinked :AFM***-CFX
Ni-Zn zinked :AFM***-ZN
- AISI 321/304 :AFM***-X
- AISI 316L :AFM***-XX

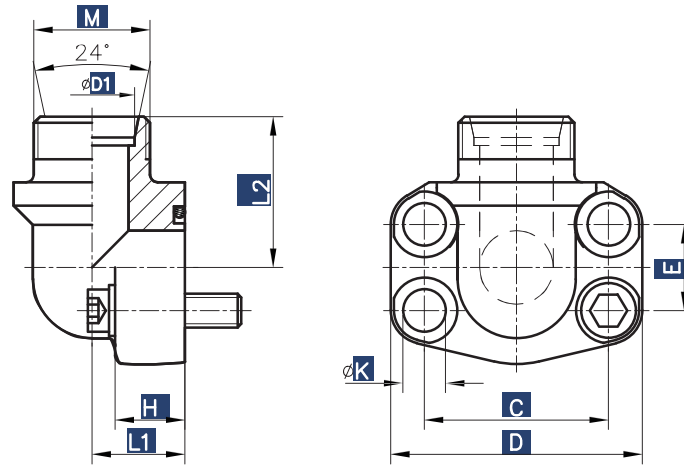
Series - 6000psi

Size (inch)	Type	dimension									Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		ØD1	C	D	E	F	G	H	K	M	bolt		o-ring		
1/2"	AFM601-12S	12S	40.49	56	18.24	48	47	16	9	M20x1.5	M8x30	5/16x1 1/4	18.66x3.53	0.288	414
	AFM601-15L	15L								M22x1.5				0.282	160
	AFM601-16S	16S								M24x1.5				0.297	414
3/4"	AFM602-16S	16S	50.80	71	23.80	55	52	18	11	M24x1.5	M10x35	3/8x1 1/2	25.00x3.53	0.470	414
	AFM602-20S	20S								M30x2				0.499	414
	AFM602-22L	22L								M30x2				0.471	160
	AFM602-25S	25S				60	73	19		M36x2				0.696	414
1"	AFM603-20S	20S	57.15	81	27.76	65	60	21	13	M30x2	M12x45	7/16x1 3/4	32.92x3.53	0.741	414
	AFM603-25S	25S								M36x2				0.780	414
	AFM603-28L	28L								M36x2				0.726	160
	AFM603-30S	30S				70	82	24		M42x2				1.068	414
1 1/4"	AFM604-25S (-12)	25S	66.68	95	31.75	78	68	24	15 13.5	M36x2	M14x50	1/2x1 3/4	37.70x3.53	1.165	414
	AFM604-30S (-12)	30S								M42x2				1.202	414
	AFM604-35L (-12)	35L								M45x2				1.165	160
	AFM604-38S (-12)	38S				92	27			M52x2				1.521	414
1 1/2"	AFM605-35L	35L	79.38	112	36.50	94	72	27	17	M45x2	M16x55	5/8x2 1/4	47.22x3.53	1.757	160
	AFM605-38S	38S								M52x2				1.873	345
	AFM605-42L	42L								M52x2				1.768	160
	AFM605-38S-2	38S		113		95	96	30		M52x2				2.279	345

Specification:

- Flange only: AFM601-12S, AFM601-12S-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE MALE THREAD FLANGE-90° WITH METRIC THREAD & 24° INNER CONE



AFMW

Material

1. carbon steel Q 345B
Blank oiled :AFMW***
Cr+3 white zinked :AFMW***-CFX
Ni-Zn zinked :AFMW***-ZN
2. AISI 321/304 :AFMW***-X
3. AISI 316L :AFMW***-XX

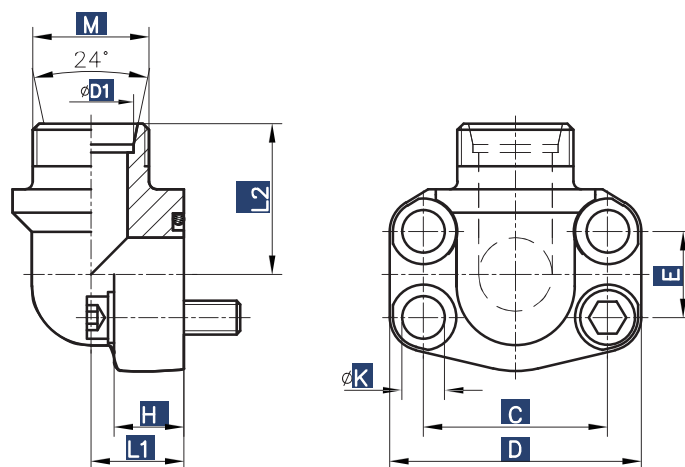
Series - 3000psi

Size (inch)	Type	dimension									Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		ØD1	C	D	E	H	K	L1	L2	M	bolt		o-ring		
											M	U			
1/2"	AFMW301-12S	12S	38.10	54	17.48	16	9	20	37	M20x1.5	M8x30	5/16x1 1/4	18.66x3.53	0.311	345
	AFMW301-15L	15L								M22x1.5				0.297	345
	AFMW301-16S	16S								M24x1.5				0.304	345
3/4"	AFMW302-16S	16S	47.63	65	22.23	18	11	24	39	M24x1.5	M10x35	3/8x1 1/2	25.00x3.53	0.458	345
	AFMW302-18L	18L								M26x1.5				0.455	160
	AFMW302-20S	20S								M30x2				0.455	345
	AFMW302-22L	22L								M30x2				0.446	160
1"	AFMW303-20S	20S	52.37	70	26.19	19	11	28	44	M30x2	M10x35	3/8x1 1/2	32.92x3.53	0.657	345
	AFMW303-25S	25S								M36x2				0.671	345
	AFMW303-28L	28L								M36x2				0.622	160
1 1/4"	AFMW304-25S	25S	58.72	79	30.18	21	11.5	34	52	M36x2	M10x40	7/16x1 1/2	37.70x3.53	0.985	276
	AFMW304-30S	30S								M42x2				0.982	276
	AFMW304-35L	35L								M45x2				0.918	160
1 1/2"	AFMW305-35L	35L	69.85	93	35.71	25	13.5	38	57	M45x2	M12x45	1/2x1 3/4	47.22x3.53	1.436	160
	AFMW305-38S	38S								M52x2				1.489	207
	AFMW305-42L	42L								M52x2				1.377	160
2"	AFMW306-38S	38S	77.77	102	42.88	25	13.5	42	65	M52x2	M12x45	1/2x1 3/4	56.75x3.53	1.993	207
	AFMW306-42L	42L												1.858	160

Specification:

1. Flange only: AFMW301-12S, AFMW301-12S-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE MALE THREAD FLANGE-90° WITH METRIC THREAD & 24° INNER CONE



AFMW

Material

1. carbon steel Q345B

Blank oiled :AFMW***

Cr+3 white zinked :AFMW***-CFX

Ni-Zn zinked :AFMW***-ZN

2. AISI 321/304 :AFMW***-X

3. AISI 316L :AFMW***-XX

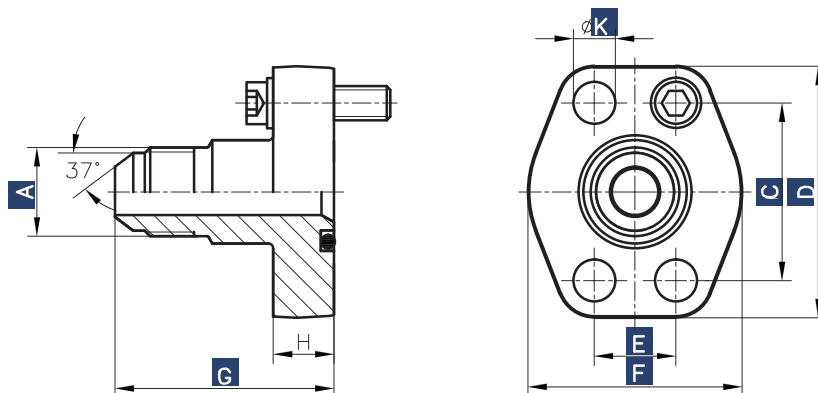
Series - 6000psi

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		ØD1	C	D	E	H	K	L1	L2	M	bolt		o-ring			
											M	U				
1/2"	AFMW601-12S	12S	40.49	56	18.24	16	9	20	37	M20x1.5	M8x30	5/16x1 1/4	18.66x3.53	0.346	414	
	AFMW601-15L	15L							38	M22x1.5				0.326	160	
	AFMW601-16S	16S								M24x1.5				0.334	414	
3/4"	AFMW602-16S	16S	50.80	71	23.80	19	11	28	43	M24x1.5	M10x35	3/8x1 1/2	25.00x3.53	0.638	414	
	AFMW602-20S	20S							M30x2	0.653				414		
	AFMW602-22L	22L							M30x2	0.632				160		
1"	AFMW603-20S	20S	57.15	79	27.76	21	13	34	51	M30x2	M12x40	7/16x1 3/4	32.92x3.53	0.908	414	
	AFMW603-25S	25S								M36x2				0.898	414	
	AFMW603-28L	28L								M36x2				0.870	160	
1 1/4"	AFMW604-25S (-12)	25S	66.68	93	31.75	25	15 13.5	38	56	M36x2	M14x45	1/2x1 3/4	37.70x3.53	1.362	414	
	AFMW604-30S (-12)	30S								M42x2				1.335	414	
	AFMW604-35L (-12)	35L								M45x2				1.303	160	
	AFMW604-38S (-12)	38S							61	M52x2				1.633	414	
1 1/2"	AFMW605-35L	35L	79.38	110	36.50	25	17	42	65	M45x2	M16x50	5/8x2	47.22x3.53	2.049	160	
	AFMW605-38S	38S								M52x2				2.145	345	
	AFMW605-42L	42L								M52x2				1.978	160	
2"	AFMW606-38S	38S	96.82	134	44.45	33	21	45	75	M52x2	M20x65	3/4x2 1/2	56.75x3.53	3.639	345	
	AFMW606-42L	42L												3.481	160	

Specification:

1. Flange only: AFMW601-12S, AFMW601-12S-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

SAE MALE THREAD FLANGE-90° WITH METRIC THREAD & 37° OUTER CONE



AFJ

Material

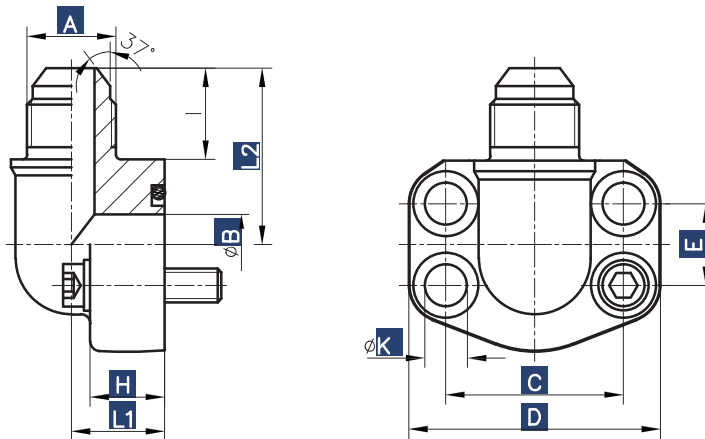
- carbon steel Q345B
Blank oiled :AFJ***
Cr+3 white zinked :AFJ***-CFX
Ni-Zn zinked :AFJ***-ZN
- AISI 321/304 :AFJ***-X
- AISI 316L :AFJ***-XX

Size (inch)	Type	dimension								Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		A	C	D	E	F	G	H	K	bolt		o-ring		
										M	U			
3000 psi														
1/2"	AFJ301A	3/4"-16UN	38.10	54	17.48	46	47	13	9	M8x30	5/16x1 1/4	18.66x3.53	0.227	345
	AFJ301B	7/8"-14UN											0.228	
3/4"	AFJ302A	7/8"-14UN	47.63	65	22.23	50	52	14	11.5	M10x35	3/8x1 1/2	25.00x3.53	0.326	160
	AFJ302B	1 1/16"-12UN											0.331	
1"	AFJ303A	1 1/16"-12UN	52.37	70	26.19	55	60	16	11.5	M10x35	3/8x1 1/2	32.92x3.53	0.480	160
	AFJ303B	1 5/16"-12UN											0.466	
1 1/4"	AFJ304A	1 5/16"-12UN	58.72	79	30.18	68	60	14	11.5	M10x35	7/16x1 1/2	37.70x3.53	0.613	160
	AFJ304B	1 5/8"-12UN											0.613	
1 1/2"	AFJ305A	1 5/8"-12UN	69.85	93	35.71	78	70	16	13.5	M12x35	1/2x1 3/4	47.22x3.53	0.964	160
	AFJ305B	1 7/8"-12UN											0.936	
2"	AFJ306A	1 7/8"-12UN	77.77	102	42.88	90	72	25	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.471	160
6000 psi														
1/2"	AFJ601A	3/4"-16UN	40.49	56	18.24	48	47	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.279	414
	AFJ601B	7/8"-14UN											0.279	
3/4"	AFJ602A	7/8"-14UN	50.80	71	23.80	55	52	18	11.5	M10x35	3/8x1 1/2	25.00x3.53	0.460	414
	AFJ602B	1 1/16"-12UN											0.465	
1"	AFJ603A	1 1/16"-12UN	57.15	81	27.76	65	60	21	13	M12x45	7/16x1 3/4	32.92x3.53	0.734	414
	AFJ603B	1 5/16"-12UN											0.719	
1 1/4"	AFJ604A ₍₋₁₂₎	1 5/16"-12UN	66.68	95	31.75	78	68	24	15 13.5	M14x50	1/2x1 3/4	37.70x3.53	1.118	414
	AFJ604B ₍₋₁₂₎	1 5/8"-12UN											1.104	
1 1/2"	AFJ605A	1 5/8"-12UN	79.38	112	36.50	94	72	27	17	M16x55	5/8x2 1/4	47.22x3.53	1.771	345
	AFJ605B	1 7/8"-12UN											1.739	

Specification:

- Flange only: AFJ301A, AFJ301A-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE MALE THREAD FLANGE-90° WITH UN THREAD & 37° OUTER CONE



AFJW

Material

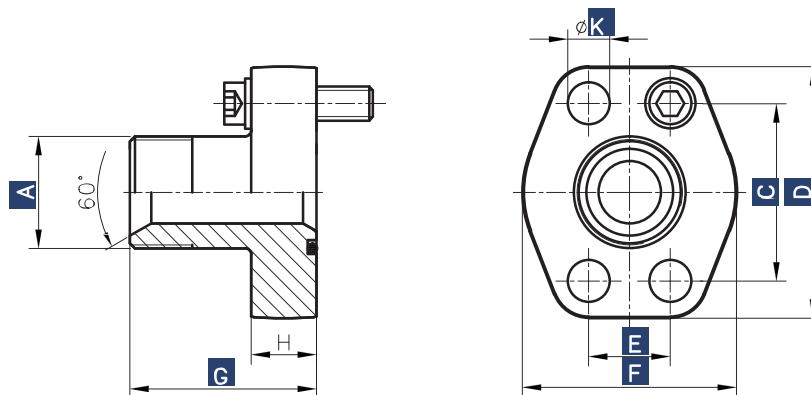
1. carbon steel Q345B
 - Blank oiled :AFJW***
 - Cr+3 white zinked:AFJW***-CFX
 - Ni-Zn zinked :AFJW***-ZN
2. AISI 321/304 :AFJW***-X
3. AISI 316L :AFJW***-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	H	I	K	L1	L2	bolt		o-ring		
												M	U			
3000 psi																
1/2"	AFJW301A	3/4"-16UNF	13	38.10	54	17.48	16	19	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.288	345
	AFJW301B	7/8"-14UN													0.289	
3/4"	AFJW302A	7/8"-14UN	19	47.63	65	22.23	18	19	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.428	345
1"	AFJW303A	1 1/16"-12UN	25	52.37	70	26.19	19	22	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.609	345
1 1/4"	AFJW304A	1 5/16"-12UN	32	58.72	79	30.18	21	24	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	0.920	276
	AFJW304B	1 5/8"-12UN													0.907	
1 1/2"	AFJW305A	1 5/8"-12UN	38	69.85	93	35.71	25	25	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.421	207
2"	AFJW306A	1 7/8"-12UN	51	77.77	102	42.88	25	28	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	1.864	207
重系列 6000 psi																
1/2"	AFJW601A	3/4"-16UNF	13	40.49	56	18.24	16	19	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.317	414
	AFJW601B	7/8"-14UN													0.317	
3/4"	AFJW602A	7/8"-14UN	19	50.80	71	23.80	19	19 22	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.634	414
	AFJW602B	1 1/16"-12UN													0.595	
1"	AFJW603A	1 1/16"-12UN	25	57.15	79	27.76	21	23	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	0.899	414
	AFJW603B	1 5/16"-12UN													0.881	
1 1/4"	AFJW604A X(-12)	1 5/16"-12UN	32	66.68	93	31.75	25	24 15 13.5	38	56	M14x45	1/2x1 3/4	37.70x3.53	1.323	414	
	AFJW604B X(-12)	1 5/8"-12UN												1.298		
1 1/2"	AFJW605A	1 5/8"-12UN	38	79.38	110	36.50	25	28	17	42	65	M16x50	5/8x2	47.22x3.53	2.009	414
	AFJW605B	1 7/8"-12UN													1.977	
2"	AFJW606A	1 7/8"-12UN	51	96.82	134	44.45	33	28	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	3.528	414

Specification:

1. Flange only: AFJW301A AFJW301A-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE MALE THREAD FLANGE WITH BSPP THREAD & 60° INNER CONE



AFG

Material

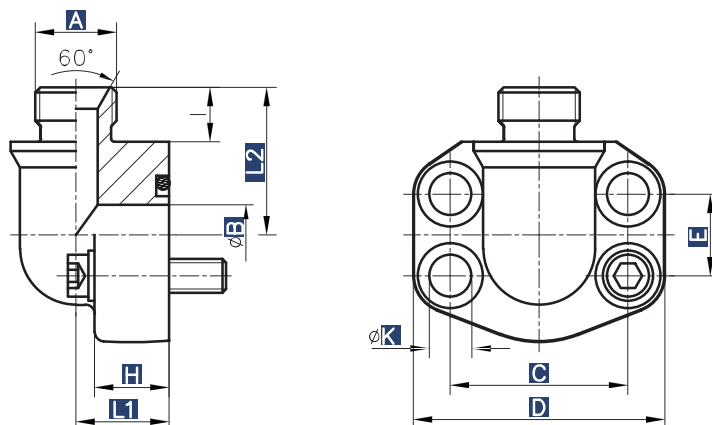
1. carbon steel Q345B
 - Blank oiled :AFG***
 - Cr+3 white zinked :AFG***-CFX
 - Ni-Zn zinked :AFG***-ZN
2. AISI 321/304 :AFG***-X
3. AISI 316L :AFG***-XX

Size (inch)	Type	dimension								Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		A	C	D	E	F	G	H	K	bolt		o-ring		
										M	U			
3000 psi														
1/2"	AFG301-G3/8	G3/8"	38.10	54	17.48	46	37	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.239	345
	AFG301-G1/2	G1/2"					39						0.250	
3/4"	AFG302-G1/2	G1/2"	47.63	65	22.23	50	42	18	11	M10x35	3/8x1 1/2	25.00x3.53	0.355	345
	AFG302-G3/4	G3/4"					45						0.365	
1"	AFG303-G3/4	G3/4"	52.37	70	26.19	55	47	18	11	M10x35	3/8x1 1/2	32.92x3.53	0.433	345
	AFG303-G1	G1"					49						0.455	
11/4"	AFG304-G1	G1"	58.72	79	30.18	68	53	21	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.694	276
	AFG304-G1¼	G1¼"											0.722	
11/2"	AFG305-G1¼	G1¼"	69.85	93	35.71	78	59	24	13.5	M12x45	1/2x1 3/4	47.22x3.53	1.083	207
	AFG305-G1½	G1½"					61						1.111	
2"	AFG306-G1½	G1½"	77.77	102	42.88	90	69	25	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.455	207
6000 psi														
1/2"	AFG601-G3/8	G3/8"	40.49	56	18.24	48	38	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.256	414
	AFG601-G1/2	G1/2"					40						0.268	
3/4"	AFG602-G1/2	G1/2"	50.80	71	23.80	55	44	18	11	M10x35	3/8x1 1/2	25.00x3.53	0.435	414
	AFG602-G3/4	G3/4"					47						0.446	
1"	AFG603-G3/4	G3/4"	57.15	81	27.76	65	54	21	13	M12x45	7/16x1 3/4	32.92x3.53	0.678	414
	AFG603-G1	G1"					56						0.701	
11/4"	AFG604-G1 (-12)	G1"	66.68	95	31.75	78	61	24	15 13.5	M14x50	1/2x1 3/4	37.70x3.53	1.068	414
	AFG604-G1¼ (-12)	G1¼"											1.099	
11/2"	AFG605-G1¼	G1¼"	79.38	112	36.50	94	65	27	17	M16x55	5/8x2 1/4	47.22x3.53	1.682	414
	AFG605-G1½	G1½"					67						1.708	

Specification:

1. Flange only: AFG301-G3/8, AFG301-G3/8-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE MALE THREAD FLANGE-90°WITH BSPP THREAD &60°INNER CONE



AFGW

Material

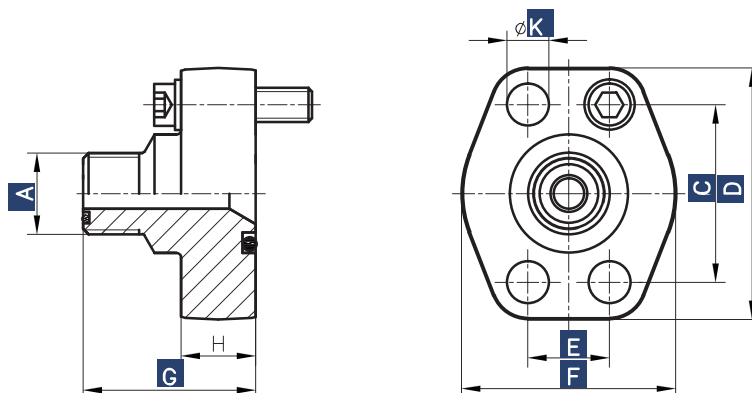
- carbon steel Q345B
Blank oiled :AFGW***
Cr+3 white zinked :AFGW***-CFX
Ni-Zn zinked :AFGW***-ZN
- AISI 321/304 :AFGW***-X
- AISI 316L :AFGW***-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	H	I	K	L1	L2	bolt		o-ring		
												M	U			
3000 psi																
1/2"	AFGW301-G3/8	G3/8"	13	38.10	54	17.48	16	17	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.300	345
	AFGW301-G1/2	G1/2"													0.300	
3/4"	AFGW302-G1/2	G1/2"	19	47.63	65	22.23	18	17	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.455	345
	AFGW302-G3/4	G3/4"													0.444	
1"	AFGW303-G3/4	G3/4"	25	52.37	70	26.19	19	19	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.647	345
	AFGW303-G1	G1"													0.633	
1 1/4"	AFGW304-G1	G1"	32	58.72	79	30.18	21	22	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	0.925	276
	AFGW304-G1¼	G1¼"													0.912	
1 1/2"	AFGW305-G1¼	G1¼"	38	69.85	93	35.71	25	25	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.460	207
	AFGW305-G1½	G1½"													1.432	
2"	AFGW306-G1½	G1½"	51	77.77	102	42.88	25	26	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	1.914	207
	AFGW306-G2	G2"													1.749	
6000 psi																
1/2"	AFGW601-G3/8	G3/8"	13	40.49	56	18.24	16	18	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.328	414
	AFGW601-G1/2	G1/2"													0.329	
3/4"	AFGW602-G1/2	G1/2"	19	50.80	71	23.80	19	19	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.640	414
	AFGW602-G3/4	G3/4"													0.628	
1"	AFGW603-G3/4	G3/4"	25	57.15	79	27.76	21	23	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	0.887	414
	AFGW603-G1	G1"													0.875	
1 1/4"	AFGW604-G1 ⁽⁻¹²⁾	G1"	32	66.68	93	31.75	25	23	15 ⁽⁻¹²⁾	38	56	M14x45	1/2x1 3/4	37.70x3.53	1.337	414
	AFGW604-G1¼ ⁽⁻¹²⁾	G1¼"							13.5						1.314	
1 1/2"	AFGW605-G1¼	G1¼"	38	79.38	110	36.50	25	28	17	42	65	M16x50	5/8x2	47.22x3.53	2.082	414
	AFGW605-G1½	G1½"													2.037	
2"	AFGW606-G1½	G1½"	51	96.82	134	44.45	33	27	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	3.557	414
	AFGW606-G2	G2"													3.334	

Specification:

- Flange only: AFGW301-G3/8, AFGW301-G3/8-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE MALE THREAD FLANGE WITH UN THREAD & ORFS



AFOR

Material)

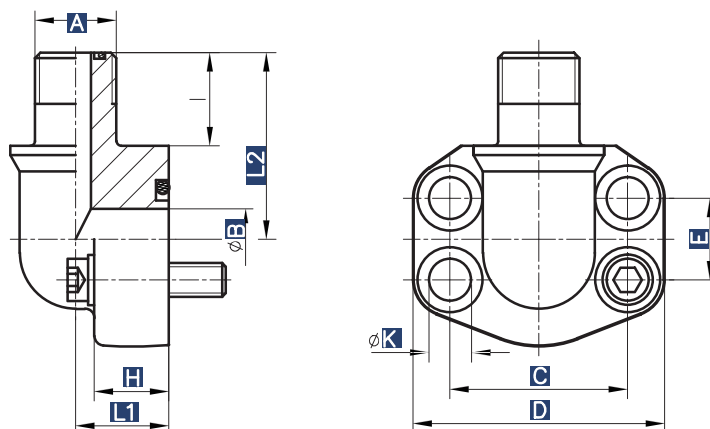
- carbon steel Q345B
Blank oiled :AFOR***
Cr+3 white zinked :AFOR***-CFX
Ni-Zn zinked :AFOR***-ZN
- AISI 321/304 :AFOR***-X
- AISI 316L :AFOR***-XX

Size (inch)	Type	dimension								Accessories for use				Wt (kg)	MAX.W.P (kg/cm ²)
		A	C	D	E	F	G	H	K	螺栓 bolt		O形圈1 o-ring	O形圈2 o-ring		
										M	U				
3000 psi															
1/2"	AFOR301A	1 ¹ / ₁₆ "-16UN	38.10	54	17.48	46	37	16	9	M8x30	5/16x1 1/4	9.25x1.78	18.66x3.53	0.257	345
	AFOR301B	1 ³ / ₁₆ "-16UN					39					12.42x1.78		0.262	
	AFOR301C	1"-14UNS					42					15.6x1.78		0.277	
3/4"	AFOR302A	1"-14UNS	47.63	65	22.23	50	45	18	11	M10x35	3/8x1 1/2	15.6x1.78	25.00x3.53	0.398	345
	AFOR302B	1 ³ / ₁₆ "-12UN					47					18.77x1.78		0.416	
1"	AFOR303A	1 ³ / ₁₆ "-12UN	52.37	70	26.19	55	49	18	11	M10x35	3/8x1 1/2	18.77x1.78	32.92x3.53	0.514	345
	AFOR303B	1 ⁷ / ₁₆ "-12UN										23.52x1.78		0.523	
1 1/4"	AFOR304A	1 ⁷ / ₁₆ "-12UN	58.72	79	30.18	68	53	21	11.5	M10x40	7/16x1 1/2	23.52x1.78	37.70x3.53	0.793	276
	AFOR304B	1 ¹¹ / ₁₆ "-12UN										29.87x1.78		0.789	
1 1/2"	AFOR305A	1 ¹¹ / ₁₆ "-12UN	69.85	93	35.71	78	61	24	13.5	M12x45	1/2x1 3/4	29.87x1.78	47.22x3.53	1.235	207
	AFOR305B	2"-12UN										37.82x1.78		1.221	
2"	AFOR306A	1 ¹¹ / ₁₆ "-12UN	77.77	102	42.88	90	72	25	13.5	M12x45	1/2x1 3/4	29.87x1.78	56.75x3.53	1.619	207
	AFOR306B	2"-12UN										37.82x1.78		1.606	
6000 psi															
1/2"	AFOR601A	1 ¹ / ₁₆ "-16UN	40.49	56	18.24	48	38	16	9	M8x30	5/16x1 1/4	9.25x1.78	18.66x3.53	0.280	414
	AFOR601B	1 ³ / ₁₆ "-16UN					40					12.42x1.78		0.285	
	AFOR601C	1"-14UNS					43					15.6x1.78		0.299	
3/4"	AFOR602A	1"-14UNS	50.80	71	23.80	55	47	18	11	M10x35	3/8x1 1/2	15.6x1.78	25.00x3.53	0.486	414
	AFOR602B	1 ³ / ₁₆ "-12UN					49					18.77x1.78		0.504	
1"	AFOR603A	1 ³ / ₁₆ "-12UN	57.15	81	27.76	65	56	21	13	M12x45	7/16x1 3/4	18.77x1.78	32.92x3.53	0.775	414
	AFOR603B	1 ⁷ / ₁₆ "-12UN										23.52x1.78		0.777	
1 1/4"	AFOR604A ₍₋₁₂₎	1 ⁷ / ₁₆ "-12UN	66.68	95	31.75	78	61	24	13.5	M14x50	1/2x1 3/4	23.52x1.78	37.70x3.53	1.157	414
	AFOR604B ₍₋₁₂₎	1 ¹¹ / ₁₆ "-12UN										29.87x1.78		1.140	
1 1/2"	AFOR605A	1 ¹¹ / ₁₆ "-12UN	79.38	112	36.50	94	65	27	17	M16x55	5/8x2 1/4	29.87x1.78	47.22x3.53	1.854	414
	AFOR605B	2"-12UN					67					37.82x1.78		1.827	

Specification:

- Flange only: AFOR301A, AFOR301A-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE MALE THREAD FLANGE-90° WITH UN THREAD & ORFS



AFORW

Material

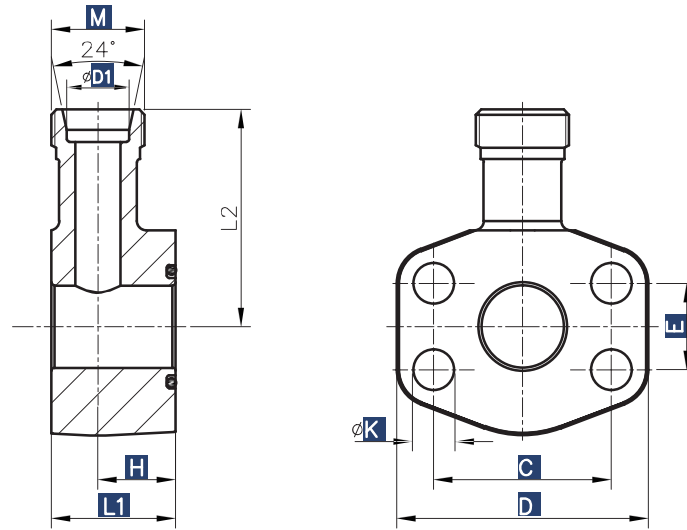
- carbon steel Q345B
Blank oiled :AFORW***
Cr+3 white zinked :AFORW***-CFX
Ni-Zn zinked :AFORW***-ZN
- AISI 321/304 :AFORW***-X
- AISI 316L :AFORW***-XX

Size (inch)	Type	dimension											Accessories for use				Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	H	I	K	L1	L2	bolt		o-ring	o-ring			
												M	U					
3000 psi																		
1/2"	AFORW301A	1 ¹ / ₁₆ "-16UN	13	38.10	54	17.48	16	19	9	20	37	M8x30	5/16x1 1/4	9.25x1.78	18.66x3.53	0.291	345	
	AFORW301B	1 ³ / ₁₆ "-16UN												12.42x1.78		0.297		
	AFORW301C	1"-14UNS												15.6x1.78		0.307		
3/4"	AFORW302A	1"-14UNS	19	47.63	65	22.23	18	17	11	24	39	M10x35	3/8x1 1/2	15.6x1.78	25.00x3.53	0.469	345	
	AFORW302B	1 ³ / ₁₆ "-12UN												18.77x1.78		0.474		
1"	AFORW303A	1 ³ / ₁₆ "-12UN	25	52.37	70	26.19	19	19	11	28	44	M10x35	3/8x1 1/2	18.77x1.78	32.92x3.53	0.681	345	
	AFORW303B	1 ⁷ / ₁₆ "-12UN												23.52x1.78		0.681		
1 1/4"	AFORW304A	1 ⁷ / ₁₆ "-12UN	32	58.72	79	30.18	21	22	11.5	34	52	M10x40	7/16x1 1/2	23.52x1.78	37.70x3.53	1.002	276	
	AFORW304B	1 ¹¹ / ₁₆ "-12UN												29.87x1.78		0.994		
1 1/2"	AFORW305A	1 ¹¹ / ₁₆ "-12UN	38	69.85	93	35.71	25	25	13.5	38	57	M12x45	1/2x1 3/4	29.87x1.78	47.22x3.53	1.539	207	
	AFORW305B	2"-12UN												37.82x1.78		1.522		
2"	AFORW306A	2"-12UN	51	77.77	102	42.88	25	26	13.5	42	65	M12x45	1/2x1 3/4	37.82x1.78	56.75x3.53	2.019	207	
6000 psi																		
1/2"	AFORW601A	1 ¹ / ₁₆ "-16UN	13	40.49	56	18.24	16	18	9	20	38	M8x30	5/16x1 1/4	9.25x1.78	18.66x3.53	0.338	414	
	AFORW601B	1 ³ / ₁₆ "-16UN												12.42x1.78		0.340		
	AFORW601C	1"-14UNS												15.6x1.78		0.348		
3/4"	AFORW602A	1"-14UNS	19	50.80	71	23.80	19	19	11	28	43	M10x35	3/8x1 1/2	15.6x1.78	25.00x3.53	0.656	414	
	AFORW602B	1 ³ / ₁₆ "-12UN												18.77x1.78		0.663		
1"	AFORW603A	1 ³ / ₁₆ "-12UN	25	57.15	79	27.76	21	23	13	34	51	M12x40	7/16x1 3/4	18.77x1.78	32.92x3.53	0.942	414	
	AFORW603B	1 ⁷ / ₁₆ "-12UN												23.52x1.78		0.949		
1 1/4"	AFORW604A ₍₋₁₂₎	1 ⁷ / ₁₆ "-12UN	32	66.68	93	31.75	25	23	15 13.5	38	56	M14x45	1/2x1 3/4	23.52x1.78	37.70x3.53	1.404	414	
	AFORW604B ₍₋₁₂₎	1 ¹¹ / ₁₆ "-12UN												29.87x1.78		1.389		
1 1/2"	AFORW605A	1 ¹¹ / ₁₆ "-12UN	38	79.38	110	36.50	25	28	17	42	65	M16x50	5/8x2	29.87x1.78	47.22x3.53	2.164	414	
	AFORW605B	2"-12UN												37.82x1.78		2.134		
2"	AFORW606A	2"-12UN	51	96.82	134	44.45	33	27	21	45	75	M20x65	3/4x2 1/2	37.82x1.78	56.75x3.53	3.664	414	

Specification:

- Flange only: AFORW301A, AFORW301A-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE SIDE CONNECTION FLANGE WITH METRICE THREAD & 24° INNER CONE



AGWM

Material

- carbon steel Q345B
Blank oiled :AGWM***
Cr+3 white zinked :AGWM***-CFX
Ni-Zn zinked :AGWM***-ZN
- AISI 321/304 :AGWM***-X
- AISI 316L :AGWM***-XX

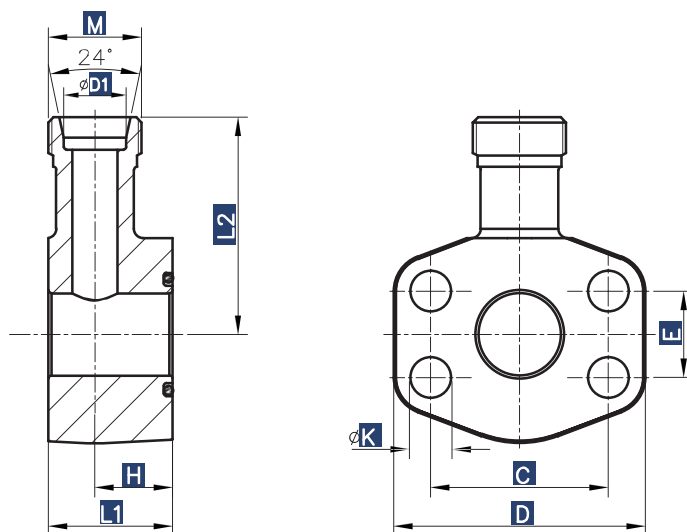
Series - 3000psi

Size (inch)	Type	dimension									Wt (kg)	MAX.W.P (kg/cm ²)
		ØD1	C	D	E	H	K	L1	L2	M		
1/2"	AGWM301-12S	12S	38.10	56	17.48	20	9	32	50	M20x1.5	0.7	345
	AGWM301-15L	15L								M22x1.5		345
	AGWM301-16S	16S								M24x1.5		345
3/4"	AGWM302-16S	16S	47.63	71	22.23	24	11	39	60	M24x1.5	1.0	345
	AGWM302-18L	18L								M26x1.5		160
	AGWM302-20S	20S								M30x2		345
	AGWM302-22L	22L								M30x2		160
1"	AGWM303-20S	20S	52.37	81	26.19	28	11	46	70	M30x2	1.4	345
	AGWM303-25S	25S								M36x2		345
	AGWM303-28L	28L								M36x2		160
1 1/4"	AGWM304-25S	25S	58.72	95	30.18	32	11.5	54.5	75	M36x2	2.5	276
	AGWM304-30S	30S								M42x2		276
	AGWM304-35L	35L								M45x2		160
1 1/2"	AGWM305-35L	35L	69.85	112	35.71	38	13.5	64	90	M45x2	3.8	160
	AGWM305-38S	38S								M52x2		207
	AGWM305-42L	42L								M52x2		160

Specification:

- Flange only: AGWM301-12S, AGWM301-12S-X

SAE SIDE CONNECTION FLANGE WITH METRICE THREAD & 24° INNER CONE



AGWM

Material

- carbon steel Q345B
Blank oiled :AGWM***
Cr+3 white zinked :AGWM***-CFX
Ni-Zn zinked :AGWM***-ZN
- AISI 321/304 :AGWM***-X
- AISI 316L :AGWM***-XX

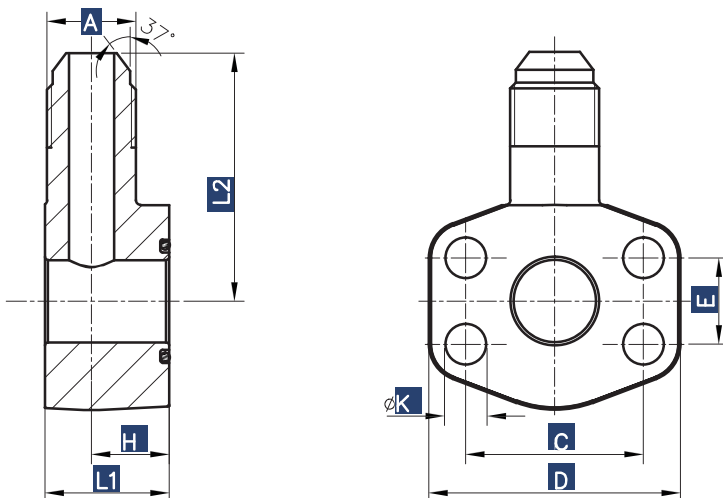
Series - 6000psi

Size (inch)	Type	dimension									Wt (kg)	MAX.W.P (kg/cm ²)
		ØD1	C	D	E	H	K	L1	L2	M		
1/2"	AGWM601-12S	12S	40.49	56	18.24	20	9	32	50	M20x1.5	0.7	414
	AGWM601-15L	15L								M22x1.5		160
	AGWM601-16S	16S								M24x1.5		414
3/4"	AGWM602-16S	16S	50.80	71	23.80	24	11	39	60	M24x1.5	1.0	414
	AGWM602-20S	20S								M30x2		414
	AGWM602-22L	22L								M30x2		160
1"	AGWM603-20S	20S	57.15	81	27.76	28	13	46	70	M30x2	1.4	414
	AGWM603-25S	25S								M36x2		414
	AGWM603-28L	28L								M36x2		160
1 1/4"	AGWM604-25S (-12)	25S	66.68	95	31.75	38	15 13.5	64	75	M36x2	2.5	414
	AGWM604-30S (-12)	30S								M42x2		414
	AGWM604-35L (-12)	35L								M45x2		160
	AGWM604-38S (-12)	38S								M52x2		414
1 1/2"	AGWM605-35L	35L	79.38	112	36.50	38	17	64	90	M45x2	3.8	160
	AGWM605-38S	38S								M52x2		345
	AGWM605-42L	42L								M52x2		160

Specification:

- Flange only: AGWM601-12S, AGWM601-12S-X

SAE SIDE CONNECTION FLANGE WITH UN THREAD & 37° OUTER CONE



AGWJ

Material

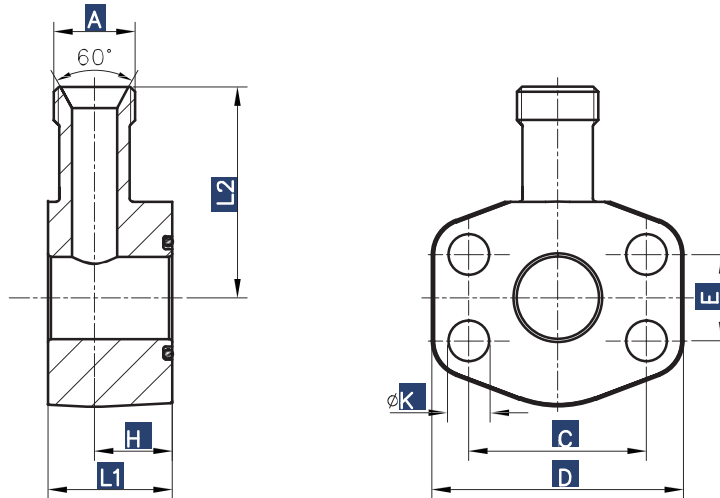
1. carbon steel Q345B
Blank oiled :AGWJ***
Cr+3 white zinked :AGWJ***-CFX
Ni-Zn zinked :AGWJ***-ZN
2. AISI 321/304 :AGWJ***-X
3. AISI 316L :AGWJ***-XX

Size (inch)	Type	dimension								Wt (kg)	MAX.W.P (kg/cm ²)
		A	C	D	E	H	K	L1	L2		
3000 psi											
1/2"	AGWJ301A	3/4"-16UNF	38.10	56	17.48	20	9	32	50	0.7	345
	AGWJ301B	7/8"-14UN									
3/4"	AGWJ302A	7/8"-14UN	47.63	71	22.23	24	11	39	60	1.0	345
	AGWJ302B	1 1/16"-12UN									
1"	AGWJ303A	1 1/16"-12UN	52.37	81	26.19	28	11	46	70	1.4	345
	AGWJ303B	1 5/16"-12UN									
1 1/4"	AGWJ304A	1 5/16"-12UN	58.72	95	30.18	32	11.5	54.5	75	2.5	276
	AGWJ304B	1 5/8"-12UN									
1 1/2"	AGWJ305A	1 5/8"-12UN	69.85	112	35.71	38	13.5	64	90	3.8	207
	AGWJ305B	1 7/8"-12UN									
6000 psi											
1/2"	AGWJ601A	3/4"-16UNF	40.49	56	18.24	20	9	32	50	0.7	414
	AGWJ601B	7/8"-14UN									
3/4"	AGWJ602A	7/8"-14UN	50.80	71	23.80	24	11	39	60	1.0	414
	AGWJ602B	1 1/16"-12UN									
1"	AGWJ603A	1 1/16"-12UN	57.15	81	27.76	28	13	46	70	1.4	414
	AGWJ603B	1 5/16"-12UN									
1 1/4"	AGWJ604A	1 5/16"-12UN	66.68	95	31.75	32	15 13.5	54.5	75	2.5	414
	AGWJ604B	1 5/8"-12UN									
1 1/2"	AGWJ605A	1 5/8"-12UN	79.38	112	36.50	38	17	64	90	3.8	414
	AGWJ605B	1 7/8"-12UN									

Specification:

1. Flange only: AGWJ301A, AGWJ301A-X

SAE SIDE CONNECTION FLANGE WITH BSPP THREAD & 60° INNER CONE



AGWG

Material

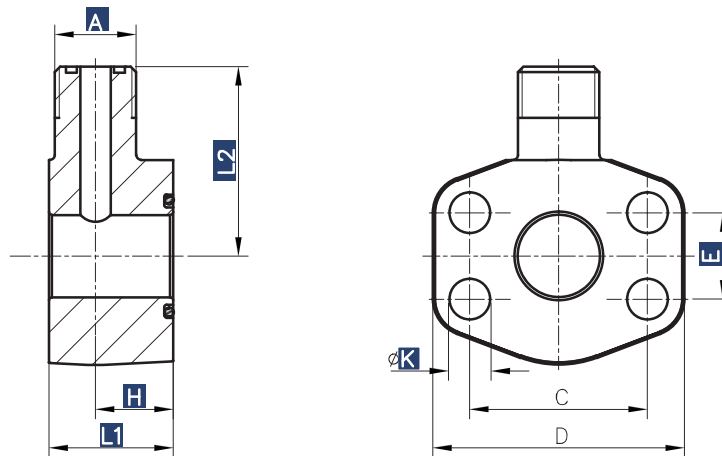
- carbon steel Q345B
Blank oiled :AGWG***
Cr+3 white zinked :AGWG***-CFX
Ni-Zn zinked :AGWG***-ZN
- AISI 321/304 :AGWG***-X
- AISI 316L :AGWG***-XX

Size (inch)	Type	dimension								Wt (kg)	MAX.W.P (kg/cm ²)
		A	C	D	E	H	K	L1	L2		
3000 psi											
1/2"	AGWG301-G3/8	G3/8"	38.10	56	17.48	20	9	32	50	0.7	345
	AGWG301-G1/2	G1/2"									
3/4"	AGWG302-G1/2	G1/2"	47.63	71	22.23	24	11	39	60	1.0	345
	AGWG302-G3/4	G3/4"									
1"	AGWG303-G3/4	G3/4"	52.37	81	26.19	28	11	46	70	1.4	345
	AGWG303-G1	G1"									
11/4"	AGWG304-G1	G1"	58.72	95	30.18	32	11.5	54.5	75	2.5	276
	AGWG304-G1¼	G1¼"									
11/2"	AGWG305-G1¼	G1¼"	69.85	112	35.71	38	13.5	64	90	3.8	207
	AGWG305-G1½	G1½"									
6000 psi											
1/2"	AGWG601-G3/8	G3/8"	40.49	56	18.24	20	9	32	50	0.7	414
	AGWG601-G1/2	G1/2"									
3/4"	AGWG602-G1/2	G1/2"	50.80	71	23.80	24	11	39	60	1.0	414
	AGWG602-G3/4	G3/4"									
1"	AGWG603-G3/4	G3/4"	57.15	81	27.76	28	13	46	70	1.4	414
	AGWG603-G1	G1"									
11/4"	AGWG604-G1 ⁽⁻¹²⁾	G1"	66.68	95	31.75	32	15 13.5	54.5	75	2.5	414
	AGWG604-G1¼ ⁽⁻¹²⁾	G1¼"									
11/2"	AGWG605-G1¼	G1¼"	79.38	112	36.50	38	17	64	90	3.8	414
	AGWG605-G1½	G1½"									

Specification:

- Flange only: AGWG301A, AGWG301A-X

SAE SIDE CONNECTION FLANGE WITH UN THREAD & ORFS



AGWOR

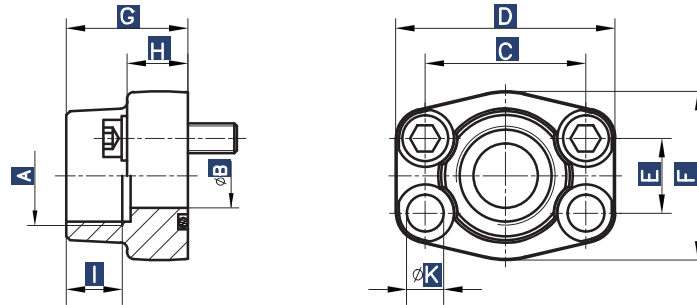
Material

1. carbon steel Q345B
Blank oiled :AGWOR***
Cr+3 white zinked :AGWOR***-CFX
Ni-Zn zinked :AGWOR***-ZN
2. AISI 321/304 :AGWOR***-X
3. AISI 316L :AGWOR***-XX

Size (inch)	Type	dimension								Wt (kg)	MAX.W.P (kg/cm ²)
		A	C	D	E	H	K	L1	L2		
3000 psi											
1/2"	AGWOR301A	1 ¹ / ₁₆ "-16UN	38.10	56	17.48	20	9	32	50	0.7	345
	AGWOR301B	1 ³ / ₁₆ "-16UN									
	AGWOR301C	1"-14UNS									
3/4"	AGWOR302A	1"-14UNS	47.63	71	22.23	24	11	39	60	1.0	345
	AGWOR302B	1 ³ / ₁₆ "-12UN									
1"	AGWOR303A	1 ³ / ₁₆ "-12UN	52.37	81	26.19	28	11	46	70	1.4	345
	AGWOR303B	1 ⁷ / ₁₆ "-12UN									
1 1/4"	AGWOR304A	1 ⁷ / ₁₆ "-12UN	58.72	95	30.18	32	11.5	54.5	75	2.5	276
	AGWOR304B	1 ¹¹ / ₁₆ "-12UN									
1 1/2"	AGWOR305A	1 ¹¹ / ₁₆ "-12UN	69.85	112	35.71	38	13.5	64	90	3.8	207
	AGWOR305B	2"-12UN									
6000 psi											
1/2"	AGWOR601A	1 ¹ / ₁₆ "-16UN	40.49	56	18.24	20	9	32	50	0.7	414
	AGWOR601B	1 ³ / ₁₆ "-16UN									
	AGWOR601C	1"-14UNS									
3/4"	AGWOR602A	1"-14UNS	50.80	71	23.80	24	11	39	60	1.0	414
	AGWOR602B	1 ³ / ₁₆ "-12UN									
1"	AGWOR603A	1 ³ / ₁₆ "-12UN	57.15	81	27.76	28	13	46	70	1.4	414
	AGWOR603B	1 ⁷ / ₁₆ "-12UN									
1 1/4"	AGWOR604A ₍₋₁₂₎	1 ⁷ / ₁₆ "-12UN	66.68	95	31.75	32	15 13.5	54.5	75	2.5	414
	AGWOR604B ₍₋₁₂₎	1 ¹¹ / ₁₆ "-12UN									
1 1/2"	AGWOR605A	1 ¹¹ / ₁₆ "-12UN	79.38	112	36.50	38	17	64	90	3.8	414
	AGWOR605B	2"-12UN									

Specification:

1. Flange only: AGWOR301A, AGWOR301A-X



AFS--G

Material

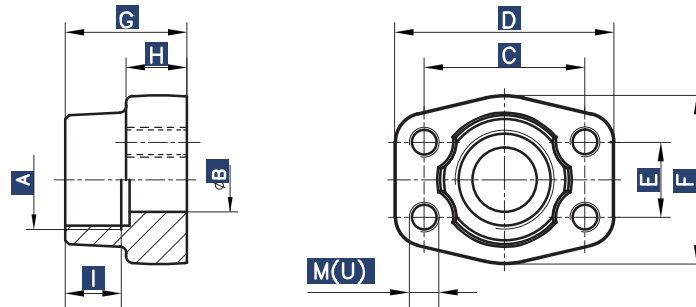
- carbon steel Q345B
Blank oiled :AFS***G
Cr+3 white zinked :AFS***G-CFX
Ni-Zn zinked :AFS***G-ZN
- AISI 321/304 :AFS***G-X
- AISI 316L :AFS***G-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	F	G	H	I	K	M	U			
3000 psi																
1/2"	AFS301G	G1/2"	13	38.10	54	17.48	46	36	16	19	9	M8x30	5/16x1 1/4	18.66x3.53	0.253	345
3/4"	AFS302G	G3/4"	19	47.63	65	22.23	50	36	18	19	11	M10x35	3/8x1 1/2	25.00x3.53	0.377	345
1"	AFS303G	G1"	25	52.37	70	26.19	55	38	18	22	11	M10x35	3/8x1 1/2	32.92x3.53	0.440	345
1 1/4"	AFS304G	G1 1/4"	32	58.72	79	30.18	68	41	21	22	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.666	276
1 1/2"	AFS305G	G1 1/2"	38	69.85	93	35.71	78	45	25	24	13.5	M12x45	1/2x1 3/4	47.22x3.53	1.038	207
2"	AFS306G	G2"	51	77.77	102	42.88	90	45	25	30	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.203	207
2 1/2"	AFS307G	G2 1/2"	63	88.90	114	50.80	105	50	25	30	13.5	M12x45	1/2x1 3/4	69.45x3.53	1.544	160
3"	AFS308G	G3"	73	106.38	134	61.93	124	50	27	34	17	M16x50	5/8x2	85.32x3.53	2.185	138
3 1/2"	AFS309G	G3 1/2"	89	120.65	152	69.85	136	48	27	34	17	M16x50	5/8x2	98.02x3.53	2.524	35
4"	AFS310G	G4"	99	130.18	162	77.77	146	48	27	34	17	M16x50	5/8x2	110.72x3.53	2.702	35
5"	AFS311G	G5"	120	152.40	184	92.08	180	50	29	30	17	M16x55	5/8x2 1/4	136.12x3.53	3.948	35
6000 psi																
1/2"	AFS601G	G1/2"	13	40.49	56	18.24	48	36	16	19	9	M8x30	5/16x1 1/4	18.66x3.53	0.286	414
3/4"	AFS602G	G3/4"	19	50.80	71	23.80	55	35	21	19	11	M10x35	3/8x1 1/2	25.00x3.53	0.517	414
1"	AFS603G	G1"	25	57.15	81	27.76	65	42	25	22	13	M12x45	7/16x1 3/4	32.92x3.53	0.788	414
1 1/4"	AFS604G	G1 1/4"	32	66.68	95	31.75	78	45	27	23	15	M14x50	--	37.70x3.53	1.155	414
1 1/4"	AFS604G-12	G1 1/4"	32	66.68	95	31.75	78	45	27	23	13.5	---	1/2x1 3/4	37.70x3.53	1.184	414
1 1/2"	AFS605G	G1 1/2"	38	79.38	112	36.50	94	50	30	26	17	M16x55	5/8x2 1/4	47.22x3.53	1.812	414
2"	AFS606G	G2"	51	96.82	134	44.45	114	65	37	30	21	M20x70	3/4x2 3/4	56.75x3.53	3.265	414
2 1/2"	AFS607G	G2 1/2"	63	123.83	180	58.73	152	80	48	30	26	M24x85	7/8x3 1/2	75.57x5.33	7.244	414
3"	AFS608G	G3"	73	152.40	208	71.43	178	90	58	34	32	M30x100	1 1/8x4 1/2	88.27x5.33	11.932	414

Specification:

- Flange only: AFS301G, AFS301G-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- AFS-G and GFS-G assembled: DFS301G, DFS301G-X

SAE FEMALE BSPP THREAD COUNTER FLANGE



GFS--G (Metric thread)
GFS--GU (UNC thread)

Material

- carbon steel Q345B
Blank oiled :GFS***G
Cr+3 white zinked :GFS***G-CFX
Ni-Zn zinked :GFS***G-ZN
- AISI 321/304 :GFS***G-X
- AISI 316L :GFS***G-XX

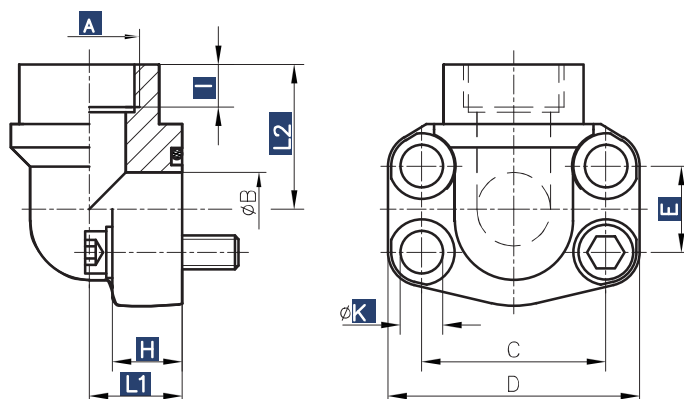
Size (inch)	Type	dimension											Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	M	U		
3000 psi														
1/2"	GFS301G	G1/2"	13	38.10	54	17.48	46	36	16	19	M8	5/16	0.273	345
3/4"	GFS302G	G3/4"	19	47.63	65	22.23	50	36	18	19	M10	3/8	0.409	345
1"	GFS303G	G1"	25	52.37	70	26.19	55	38	18	22	M10	3/8	0.474	345
1 1/4"	GFS304G	G1 1/4"	32	58.72	79	30.18	68	41	21	22	M10	7/16	0.715	276
1 1/2"	GFS305G	G1 1/2"	38	69.85	93	35.71	78	45	25	24	M12	1/2	1.104	207
2"	GFS306G	G2"	51	77.77	102	42.88	90	45	25	30	M12	1/2	1.273	207
2 1/2"	GFS307G	G2 1/2"	63	88.90	114	50.80	105	50	25	30	M12	1/2	1.617	160
3"	GFS308G	G3"	73	106.38	134	61.93	124	50	27	34	M16	5/8	2.290	138
3 1/2"	GFS309G	G3 1/2"	89	120.65	152	69.85	136	48	27	34	M16	5/8	2.628	35
4"	GFS310G	G4"	99	130.18	162	77.77	146	48	27	34	M16	5/8	2.810	35
5"	GFS311G	G5"	120	152.40	184	92.08	180	50	29	30	M16	5/8	4.073	35
6000 psi														
1/2"	GFS601G	G1/2"	13	40.49	56	18.24	48	36	16	19	M8	5/16	0.306	414
3/4"	GFS602G	G3/4"	19	50.80	71	23.80	55	35	21	19	M10	3/8	0.553	414
1"	GFS603G	G1"	25	57.15	81	27.76	65	42	25	22	M12	7/16	0.842	414
1 1/4"	GFS604G	G1 1/4"	32	66.68	95	31.75	78	45	27	23	M14	1/2	1.225	414
1 1/2"	GFS605G	G1 1/2"	38	79.38	112	36.50	94	50	30	26	M16	5/8	1.901	414
2"	GFS606G	G2"	51	96.82	134	44.45	114	65	37	30	M20	3/4	3.415	414
2 1/2"	GFS607G	G2 1/2"	63	123.83	180	58.73	152	80	48	30	M24	7/8	7.626	414
3"	GFS608G	G3"	73	152.40	208	71.43	178	90	58	34	M30	1 1/8	12.509	414

Specification:

1. Flange only:

Metric thread : GFS301G, GFS301G-X

UNC thread : GFS301GU, GFS301GU-X



AFW--G

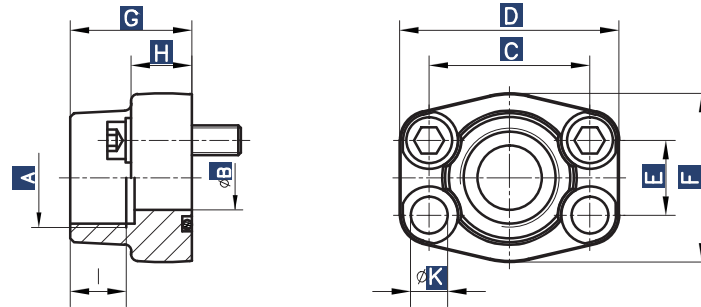
Material

- carbon steel Q345B
Blank oiled :AFW***G
Cr+3 white zinked :AFW***G--CFX
Ni-Zn zinked :AFW***G--ZN
- AISI 321/304 :AFW***G--X
- AISI 316L :AFW***G--XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	H	I	K	L1	L2	bolt		o-ring		
3000 psi																
1/2"	AFW301G	G1/2"	13	38.10	54	17.48	16	18	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.340	345
3/4"	AFW302G	G3/4"	19	47.63	65	22.23	18	18	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.488	345
1"	AFW303G	G1"	25	52.37	70	26.19	19	19	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.703	345
1 1/4"	AFW304G	G1 1/4"	32	58.72	79	30.18	21	22	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	0.999	276
1 1/2"	AFW305G	G1 1/2"	38	69.85	93	35.71	25	24	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.464	207
2"	AFW306G	G2"	51	77.77	102	42.88	25	27	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	1.830	207
2 1/2"	AFW307G	G2 1/2"	60	88.90	115	50.80	25	30	13.5	50	77	M12x45	1/2x1 3/4	69.45x3.53	2.904	160
6000 psi																
1/2"	AFW601G	G1/2"	13	40.49	56	18.24	16	19	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.393	414
3/4"	AFW602G	G3/4"	19	50.80	71	23.80	19	19	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.707	414
1"	AFW603G	G1"	25	57.15	79	27.76	21	20	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	0.970	414
1 1/4"	AFW604G	G1 1/4"	32	66.68	93	31.75	25	22	15	38	56	M14x45	---	37.70x3.53	1.376	414
1 1/4"	AFW604G-12	G1 1/4"	32	66.68	93	31.75	25	22	13.5	38	56	---	1/2x1 3/4	37.70x3.53	1.401	414
1 1/2"	AFW605G	G1 1/2"	38	79.38	110	36.50	25	24	17	42	65	M16x50	5/8x2	47.22x3.53	2.110	414
2"	AFW606G	G2"	51	96.82	134	44.45	33	27	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	3.537	414

Specification:

- Flange only: AFW301G, AFW301G-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U



AFS--N

Material

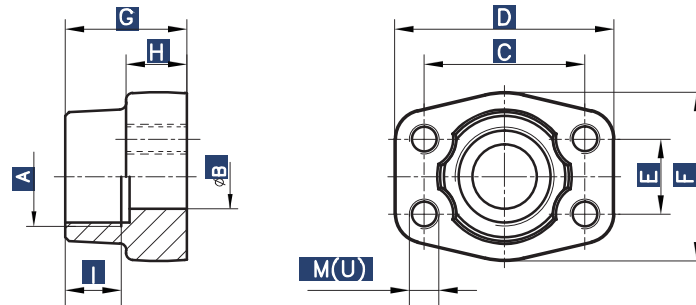
- carbon steel Q345B
Blank oiled :AFS***N
Cr+3 white zinked :AFS***N--CFX
Ni-Zn zinked :AFS***N--ZN
- AISI 321/304 :AFS***N--X
- AISI 316L :AFS***N--XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	F	G	H	I	K	M	U			
3000 psi																
1/2"	AFS301N	NPT1/2"	13	38.10	54	17.48	46	36	16	19	9	M8x30	5/16x1 1/4	18.66x3.53	0.257	345
3/4"	AFS302N	NPT3/4"	19	47.63	65	22.23	50	36	18	19	11	M10x35	3/8x1 1/2	25.00x3.53	0.384	345
1"	AFS303N	NPT1"	25	52.37	70	26.19	55	38	18	22	11	M10x35	3/8x1 1/2	32.92x3.53	0.451	345
1 1/4"	AFS304N	NPT1 1/4"	32	58.72	79	30.18	68	41	21	22	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.680	276
1 1/2"	AFS305N	NPT1 1/2"	38	69.85	93	35.71	78	45	25	24	13.5	M12x45	1/2x1 3/4	47.22x3.53	1.053	207
2"	AFS306N	NPT2"	51	77.77	102	42.88	90	45	25	30	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.226	207
2 1/2"	AFS307N	NPT2 1/2"	63	88.90	114	50.80	105	50	25	30	13.5	M12x45	1/2x1 3/4	69.45x3.53	1.698	160
3"	AFS308N	NPT3"	73	106.38	134	61.93	124	50	27	34	17.5	M16x50	5/8x2	85.32x3.53	2.282	138
3 1/2"	AFS309N	NPT3 1/2"	89	120.65	152	69.85	136	48	27	34	17.5	M16x50	5/8x2	98.02x3.53	2.622	35
4"	AFS310N	NPT4"	99	130.18	162	77.77	146	48	27	34	17.5	M16x50	5/8x2	110.72x3.53	2.846	35
6000 psi																
1/2"	AFS601N	NPT1/2"	13	40.49	56	18.24	48	36	16	19	9	M8x30	5/16x1 1/4	18.66x3.53	0.290	414
3/4"	AFS602N	NPT3/4"	19	50.80	71	23.80	55	35	21	22	11	M10x35	3/8x1 1/2	25.00x3.53	0.521	414
1"	AFS603N	NPT1"	25	57.15	81	27.76	65	42	25	22	13	M12x45	7/16x1 3/4	32.92x3.53	0.806	414
1 1/4"	AFS604N	NPT1 1/4"	32	66.68	95	31.75	78	45	27	25	15	M14x50	---	37.70x3.53	1.164	414
1 1/4"	AFS604N-12	NPT1 1/4"	32	66.68	95	31.75	78	45	27	25	13.5	---	1/2x1 3/4	37.70x3.53	1.192	414
1 1/2"	AFS605N	NPT1 1/2"	38	79.38	112	36.50	94	50	30	28	17	M16x55	5/8x2 1/4	47.22x3.53	1.830	414
2"	AFS606N	NPT2"	51	96.82	134	44.45	114	65	37	32	21	M20x70	3/4x2 3/4	56.75x3.53	3.283	414
2 1/2"	AFS607N	NPT2 1/2"	63	123.83	180	58.73	152	80	48	30	26	M24x85	7/8x3 1/2	75.57x5.33	7.404	414
3"	AFS608N	NPT3"	73	152.40	208	71.43	178	90	58	34	32	M30x100	1 1/8x4 1/2	88.27x5.33	12.143	414

Specification:

- Flange only: AFS301N, AFS301N-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- AFS-N and GFS-N assembled: DFS301N, DFS301N-X

SAE FEMALE NPT THREAD COUNTER FLANGE



GFS--N (Metric thread)
GFS--NU (UNC thread)

Material

1. carbon steel Q345B
Blank oiled :GFS***N
Cr+3 white zinked :GFS***N-CFX
Ni-Zn zinked :GFS***N-ZN
2. AISI 321/304 :GFS***N-X
3. AISI 316L :GFS***N-XX

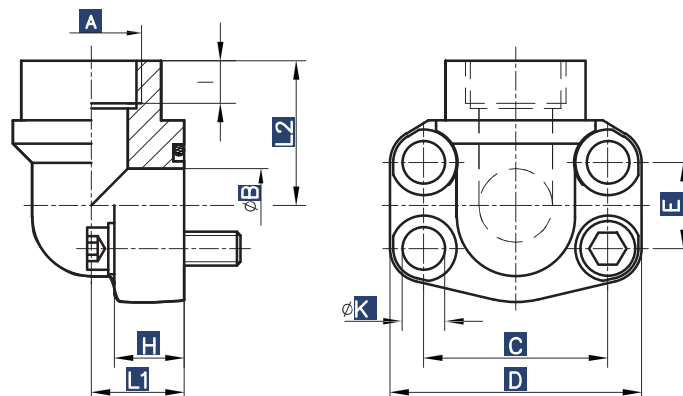
Size (inch)	Type	dimension											Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	M	U		
3000 psi														
1/2"	GFS301N	NPT1/2"	13	38.10	54	17.48	46	36	16	19	M8	5/16	0.277	345
3/4"	GFS302N	NPT3/4"	19	47.63	65	22.23	50	36	18	19	M10	3/8	0.416	345
1"	GFS303N	NPT1"	25	52.37	70	26.19	55	38	18	22	M10	3/8	0.485	345
1 1/4"	GFS304N	NPT1 1/4"	32	58.72	79	30.18	68	41	21	22	M10	7/16	0.729	276
1 1/2"	GFS305N	NPT1 1/2"	38	69.85	93	35.71	78	45	25	24	M12	1/2	1.119	207
2"	GFS306N	NPT2"	51	77.77	102	42.88	90	45	25	30	M12	1/2	1.295	207
2 1/2"	GFS307N	NPT2 1/2"	63	88.90	114	50.80	105	50	25	30	M12	1/2	1.771	160
3"	GFS308N	NPT3"	73	106.38	134	61.93	124	50	27	34	M16	5/8	2.387	138
3 1/2"	GFS309N	NPT3 1/2"	89	120.65	152	69.85	136	48	27	34	M16	5/8	2.726	35
4"	GFS310N	NPT4"	99	130.18	162	77.77	146	48	27	34	M16	5/8	2.955	35
6000 psi														
1/2"	GFS601N	NPT1/2"	13	40.49	56	18.24	48	36	16	19	M8	5/16	0.310	414
3/4"	GFS602N	NPT3/4"	19	50.80	71	23.80	55	35	21	22	M10	3/8	0.557	414
1"	GFS603N	NPT1"	25	57.15	81	27.76	65	42	25	22	M12	7/16	0.853	414
1 1/4"	GFS604N	NPT1 1/4"	32	66.68	95	31.75	78	45	27	25	M14	1/2	1.234	414
1 1/2"	GFS605N	NPT1 1/2"	38	79.38	112	36.50	94	50	30	28	M16	5/8	1.919	414
2"	GFS606N	NPT2"	51	96.82	134	44.45	114	65	37	32	M20	3/4	3.433	414
2 1/2"	GFS607N	NPT2 1/2"	63	123.83	180	58.73	152	80	48	30	M24	7/8	7.782	414
3"	GFS608N	NPT3"	73	152.40	208	71.43	178	90	58	34	M30	1 1/8	12.724	414

Specification:

1. Flange only:

Metric thread : GFS301N, GFS301N-X

UNC thread : GFS301NU, GFS301NU-X



AFW--N

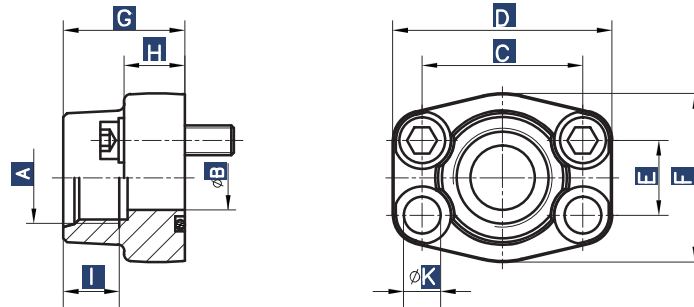
Material

1. carbon steel Q345B
 - Blank oiled :AFW***N
 - Cr+3 white zinked :AFW***N-CFX
 - Ni-Zn zinked :AFW***N-ZN
2. AISI 321/304 :AFW***N-X
3. AISI 316L :AFW***N-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	H	I	K	L1	L2	M	U			
3000 psi																
1/2"	AFW301N	NPT1/2"	13	38.10	54	17.48	16	18	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.344	345
3/4"	AFW302N	NPT3/4"	19	47.63	65	22.23	18	18	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.495	345
1"	AFW303N	NPT1"	25	52.37	70	26.19	19	19	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.708	345
1 1/4"	AFW304N	NPT1 1/4"	32	58.72	79	30.18	21	22	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	1.007	276
1 1/2"	AFW305N	NPT1 1/2"	38	69.85	93	35.71	25	24	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.481	207
2"	AFW306N	NPT2"	51	77.77	102	42.88	25	27	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	1.831	207
2 1/2"	AFW307N	NPT2 1/2"	60	88.90	115	50.80	25	30	13.5	50	77	M12x45	1/2x1 3/4	69.45x3.53	3.058	160
6000 psi																
1/2"	AFW601N	NPT1/2"	13	40.49	56	18.24	16	19	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.398	414
3/4"	AFW602N	NPT3/4"	19	50.80	71	23.80	19	19	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.714	414
1"	AFW603N	NPT1"	25	57.15	79	27.76	21	20	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	0.980	414
1 1/4"	AFW604N	NPT1 1/4"	32	66.68	93	31.75	25	22	15	38	56	M14x45	---	37.70x3.53	1.390	414
1 1/4"	AFW604N-12	NPT1 1/4"	32	66.68	93	31.75	25	22	13.5	38	56	---	1/2x1 3/4	37.70x3.53	1.416	414
1 1/2"	AFW605N	NPT1 1/2"	38	79.38	110	36.50	25	24	17	42	65	M16x50	5/8x2	47.22x3.53	2.127	414
2"	AFW606N	NPT2"	51	96.82	134	44.45	33	27	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	3.573	414

Specification:

1. Flange only: AFW301N, AFW301N-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U



AFS--UN

Material

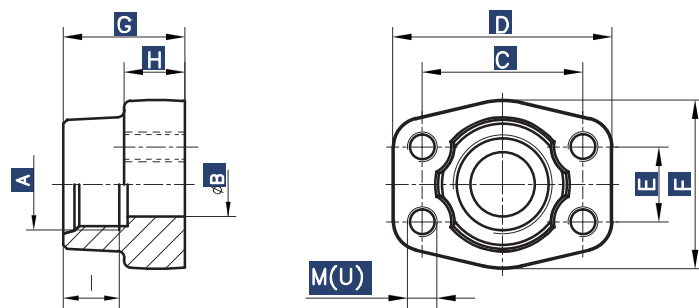
- carbon steel Q345B
Blank oiled :AFS***UN
Cr+3 white zinked :AFS***UN--CFX
Ni-Zn zinked :AFS***UN--ZN
- AISI 321/304 :AFS***UN--X
- AISI 316L :AFS***UN--XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	F	G	H	I	K	M	U			
3000 psi																
1/2"	AFS301UNF	¾"-16UNF	13	38.10	54	17.48	46	36	16	17	9	M8x30	5/16x1 1/4	18.66x3.53	0.259	345
3/4"	AFS302UN	1⅛"-12UN	19	47.63	65	22.23	50	36	18	23	11	M10x35	3/8x1 1/2	25.00x3.53	0.362	345
1"	AFS303UN	1⅝"-12UN	25	52.37	70	26.19	55	38	18	23	11	M10x35	3/8x1 1/2	32.92x3.53	0.426	345
1 1/4"	AFS304UN	1⅝"-12UN	32	58.72	79	30.18	68	41	21	23	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.658	276
1 1/2"	AFS305UN	1⅞"-12UN	38	69.85	93	35.71	78	45	25	23	13.5	M12x45	1/2x1 3/4	47.22x3.53	1.026	207
2"	AFS306UN	2½"-12UN	51	77.77	102	42.88	90	45	25	23	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.130	207
2 1/2"	AFS307UN	3"-12UN	63	88.90	114	50.80	105	50	25	30	13.5	M12x45	1/2x1 3/4	69.45x3.53	1.483	160
3"	AFS308UN	3½"-12UN	73	106.38	134	61.93	124	50	27	34	17.5	M16x50	5/8x2	85.32x3.53	2.106	138
4"	AFS310UN	4½"-12UN	99	130.18	162	77.77	146	48	27	34	17.5	M16x50	5/8x2	110.72x3.53	2.619	35
6000 psi																
1/2"	AFS601UNF	¾"-16UNF	13	40.49	56	18.24	48	36	16	17	9	M8x30	5/16x1 1/4	18.66x3.53	0.293	414
3/4"	AFS602UN	1⅛"-12UN	19	50.80	71	23.80	55	35	21	23	11	M10x35	3/8x1 1/2	25.00x3.53	0.502	414
1"	AFS603UN	1⅝"-12UN	25	57.15	81	27.76	65	42	25	23	13	M12x45	7/16x1 3/4	32.92x3.53	0.780	414
1 1/4"	AFS604UN	1⅝"-12UN	32	66.68	95	31.75	78	45	27	23	15	M14x50	---	37.70x3.53	1.141	414
1 1/4"	AFS604UN-12	1⅝"-12UN	32	66.68	95	31.75	78	45	27	23	13.5	---	1/2x1 3/4	37.70x3.53	1.168	414
1 1/2"	AFS605UN	1⅞"-12UN	38	79.38	112	36.50	94	50	30	23	17	M16x55	5/8x2 1/4	47.22x3.53	1.813	414
2"	AFS606UN	2½"-12UN	51	96.82	134	44.45	114	65	37	23	21	M20x70	3/4x2 3/4	56.75x3.53	3.187	414

Specification:

- Flange only: AFS301UNF, AFS301UNF-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- AFS-UN and GFS-UN assembled: DFS301UNF, DFS301UNF-X

SAE FEMALE UN/UNF THREAD COUNTER FLANGE



GFS--UN (Metric thread)

GFS--UNU (UNC thread)

Material

1. carbon steel Q345B
Blank oiled :GFS***UN
Cr+3 white zinked :GFS***UN-CFX
Ni-Zn zinked :GFS***UN-ZN
2. AISI 321/304 :GFS***UN--X
3. AISI 316L :GFS***UN-XX

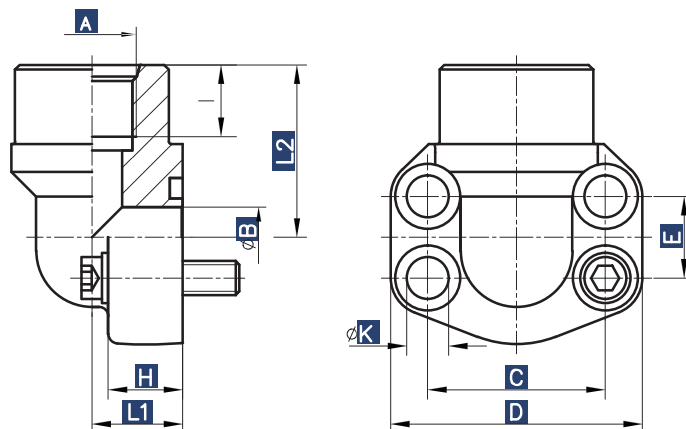
Size (inch)	Type	dimension											Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	M	U		
3000 psi														
1/2"	GFS301UNF	¾"-16UNF	13	38.10	54	17.48	46	36	16	17	M8	5/16	0.279	345
3/4"	GFS302UN	1⅛"-12UN	19	47.63	65	22.23	50	36	18	23	M10	3/8	0.394	345
1"	GFS303UN	1⅝"-12UN	25	52.37	70	26.19	55	38	18	23	M10	3/8	0.461	345
1 1/4"	GFS304UN	1⅝"-12UN	32	58.72	79	30.18	68	41	21	23	M10	7/16	0.707	276
1 1/2"	GFS305UN	1⅞"-12UN	38	69.85	93	35.71	78	45	25	23	M12	1/2	1.094	207
2"	GFS306UN	2½"-12UN	51	77.77	102	42.88	90	45	25	23	M12	1/2	1.202	207
2 1/2"	GFS307UN	3"-12UN	63	88.90	114	50.80	105	50	25	30	M12	1/2	1.556	160
3"	GFS308UN	3½"-12UN	73	106.38	134	61.93	124	50	27	34	M16	5/8	2.212	138
4"	GFS310UN	4½"-12UN	99	130.18	162	77.77	146	48	27	34	M16	5/8	2.727	35
6000 psi														
1/2"	GFS601UNF	¾"-16UNF	13	40.49	56	18.24	48	36	16	17	M8	5/16	0.313	414
3/4"	GFS602UN	1⅛"-12UN	19	50.80	71	23.80	55	35	21	23	M10	3/8	0.538	414
1"	GFS603UN	1⅝"-12UN	25	57.15	81	27.76	65	42	25	23	M12	7/16	0.830	414
1 1/4"	GFS604UN	1⅝"-12UN	32	66.68	95	31.75	78	45	27	23	M14	1/2	1.213	414
1 1/2"	GFS605UN	1⅞"-12UN	38	79.38	112	36.50	94	50	30	23	M16	5/8	1.906	414
2"	GFS606UN	2½"-12UN	51	96.82	134	44.45	114	65	37	23	M20	3/4	3.344	414

Specification:

1. Flange only:

Metric thread : GFS302UN, GFS302UN-X

UNC thread : GFS302UNU, GFS302UNU-X



AFW--UN

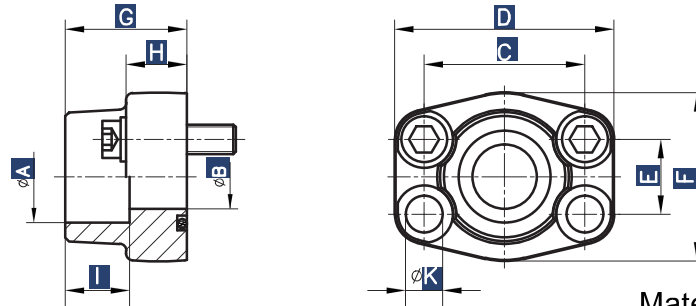
Material

1. carbon steel Q345B
Blank oiled :AFW***UN
Cr+3 white zinked :AFW***UN-CFX
Ni-Zn zinked :AFW***UN-ZN
2. AISI 321/304 :AFW***UN-X
3. AISI 316L :AFW***UN-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	H	I	K	L1	L2	M	U			
3000 psi																
1/2"	AFW301UNF	¾"-16UNF	13	38.10	54	17.48	16	17	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.346	345
3/4"	AFW302UN	1⅛"-12UN	19	47.63	65	22.23	18	23	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.474	345
1"	AFW303UN	1⅝"-12UN	25	52.37	70	26.19	19	23	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.678	345
1 1/4"	AFW304UN	1⅝"-12UN	32	58.72	79	30.18	21	23	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	0.988	276
1 1/2"	AFW305UN	1⅞"-12UN	38	69.85	93	35.71	25	23	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.431	207
2"	AFW306UN	2½"-12UN	51	77.77	102	42.88	25	23	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	1.746	207
2 1/2"	AFW307UN	3"-12UN	60	88.90	115	50.80	25	30	13.5	50	77	M12x45	1/2x1 3/4	69.45x3.53	2.843	160
6000 psi																
1/2"	AFW601UNF	¾"-16UNF	13	40.49	56	18.24	16	17	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.393	414
3/4"	AFW602UN	1⅛"-12UN	19	50.80	71	23.80	19	23	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.693	414
1"	AFW603UN	1⅝"-12UN	25	57.15	79	27.76	21	23	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	0.950	414
1 1/4"	AFW604UN	1⅝"-12UN	32	66.68	93	31.75	25	23	15	38	56	M14x45	---	37.70x3.53	1.364	414
1 1/4"	AFW604UN-12	1⅝"-12UN	32	66.68	93	31.75	25	23	13.5	38	56	---	1/2x1 3/4	37.70x3.53	1.390	414
1 1/2"	AFW605UN	1⅞"-12UN	38	79.38	110	36.50	25	23	17	42	65	M16x50	5/8x2	47.22x3.53	2.099	414
2"	AFW606UN	2½"-12UN	51	96.82	134	44.45	33	23	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	3.463	414

Specification:

1. Flange only: AFW301UNF, AFW301UNF-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U



AFS--S

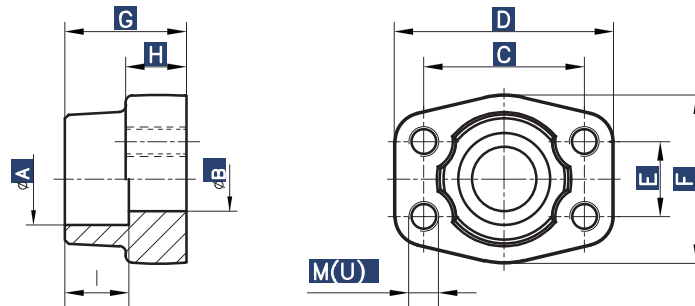
Material

1. carbon steel Q345B
Blank oiled :AFS***S
2. AISI 321/304 :AFS***S-X
3. AISI 316L :AFS***S-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	F	G	H	I	K	M	U			
3000 psi																
1/2"	AFS301S	21.60	13	38.10	54	17.48	46	36	16	19	9	M8x30	5/16x1 1/4	18.66x3.53	0.242	345
3/4"	AFS302S	27.20	19	47.63	65	22.23	50	36	18	19	11	M10x35	3/8x1 1/2	25.00x3.53	0.364	345
3/4"	AFS302S-25	25.30	19	47.63	65	22.23	50	36	18	19	11	M10x35	3/8x1 1/2	25.00x3.53	0.375	345
1"	AFS303S	34.00	25	52.37	70	26.19	55	38	18	19	11	M10x35	3/8x1 1/2	32.92x3.53	0.426	345
1 1/4"	AFS304S	42.80	32	58.72	79	30.18	68	41	21	22	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.638	276
1 1/4"	AFS304S-38	38.30	32	58.72	79	30.18	68	41	21	22	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.687	276
1 1/2"	AFS305S	48.60	38	69.85	93	35.71	78	45	25	24	13.5	M12x45	1/2x1 3/4	47.22x3.53	1.002	207
1 1/2"	AFS305S-50	50.50	38	69.85	93	35.71	78	45	25	24	13.5	M12x45	1/2x1 3/4	47.22x3.53	0.977	207
2"	AFS306S	61.00	51	77.77	102	42.88	90	45	25	26	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.154	207
2 1/2"	AFS307S	76.60	63	88.90	114	50.80	105	50	25	30	13.5	M12X45	1/2x1 3/4	69.45X3.53	1.468	160
3"	AFS308S	90.50	73	106.38	134	61.93	124	50	27	34	17	M16x50	5/8x2	85.32x3.53	2.030	138
3 1/2"	AFS309S	103.00	89	120.65	152	69.85	136	48	27	34	17	M16x50	5/8x2	98.02x3.53	2.331	35
4"	AFS310S	115.50	99	130.18	162	77.77	146	48	27	34	17	M16x50	5/8x2	110.72x3.53	2.535	35
5"	AFS311S	142.00	120	152.40	184	92.08	180	50	29	28	17	M16x55	5/8x2 1/4	136.12x3.53	3.783	35
6000 psi																
1/2"	AFS601S	21.60	13	40.49	56	18.24	48	36	16	19	9	M8x30	5/16x1 1/4	18.66x3.53	0.276	414
3/4"	AFS602S	27.20	19	50.80	71	23.80	55	35	21	22	11	M10x35	3/8x1 1/2	25.00x3.53	0.496	414
1"	AFS603S	34.00	25	57.15	81	27.76	65	42	25	22	13	M12x45	7/16x1 3/4	32.92x3.53	0.771	414
1 1/4"	AFS604S	42.80	32	66.68	95	31.75	78	45	27	25	15	M14x50	---	37.70x3.53	1.109	414
1 1/4"	AFS604S-12	42.80	32	66.68	95	31.75	78	45	27	25	13.5	---	1/2x1 3/4	37.70x3.53	1.193	414
1 1/4"	AFS604S-38	38.30	32	66.68	95	31.75	78	45	27	25	15	M14x50	---	37.70x3.53	1.165	414
1 1/2"	AFS605S	48.60	38	79.38	112	36.50	94	50	30	28	17	M16x55	5/8x2 1/4	47.22x3.53	1.761	414
1 1/2"	AFS605S-50	50.50	38	79.38	112	36.50	94	50	30	28	17	M16x55	5/8x2 1/4	47.22x3.53	1.728	414
2"	AFS606S	61.00	51	96.82	134	44.45	114	65	37	32	21	M20x70	3/4x2 3/4	56.75x3.53	3.175	414
2 1/2"	AFS607S	76.60	63	123.83	180	58.73	152	80	48	30	26	M24x85	7/8x3 1/2	75.57x5.33	7.193	414
3"	AFS608S	90.50	73	152.40	208	71.43	178	90	58	30	32	M30x100	1 1/8x4 1/2	88.27x5.33	11.848	414

Specification:

1. Flange only: AFS301S, AFS301S-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. AFS-S and GFS-S assembled: DFS301S, DFS301S-X



GFS--S (Metric thread)
GFS--SU (UNC thread)

Material

- carbon steel Q345B
Blank oiled :GFS***S
- AISI 321/304 :GFS***S-X
- AISI 316L :GFS***S-XX

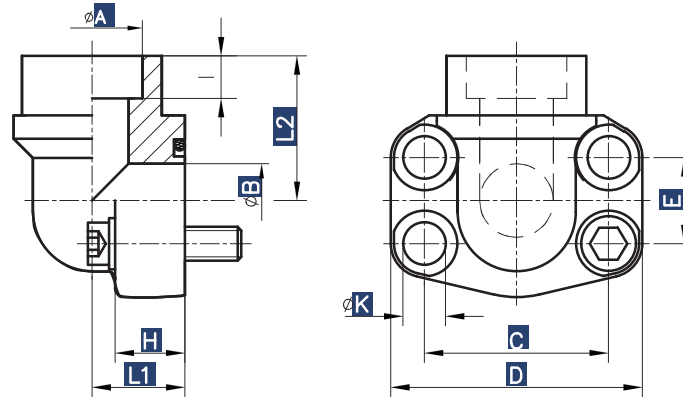
Size (inch)	Type	dimension											Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	I	M	U		
3000 psi														
1/2"	GFS301S	21.60	13	38.10	54	17.48	46	36	16	19	M8	5/16	0.263	345
3/4"	GFS302S	27.20	19	47.63	65	22.23	50	36	18	19	M10	3/8	0.396	345
3/4"	GFS302S-25	25.30	19	47.63	65	22.23	50	36	18	19	M10	3/8	0.407	345
1"	GFS303S	34.00	25	52.37	70	26.19	55	38	18	19	M10	3/8	0.460	345
1 1/4"	GFS304S	42.80	32	58.72	79	30.18	68	41	21	22	M10	7/16	0.687	276
1 1/4"	GFS304S-38	38.30	32	58.72	79	30.18	68	41	21	22	M10	7/16	0.736	276
1 1/2"	GFS305S	48.60	38	69.85	93	35.71	78	45	25	24	M12	1/2	1.068	207
1 1/2"	GFS305S-50	50.50	38	69.85	93	35.71	78	45	25	24	M12	1/2	1.043	207
2"	GFS306S	61.00	51	77.77	102	42.88	90	45	25	26	M12	1/2	1.223	207
2 1/2"	GFS307S	76.60	63	88.90	114	50.80	105	50	25	30	M12	1/2	1.550	160
3"	GFS308S	90.50	73	106.38	134	61.93	124	50	27	34	M16	5/8	2.136	138
3 1/2"	GFS309S	103.00	89	120.65	152	69.85	136	48	27	34	M16	5/8	2.440	35
4"	GFS310S	115.50	99	130.18	162	77.77	146	48	27	34	M16	5/8	2.648	35
5"	GFS311S	142.00	120	152.40	184	92.08	180	50	29	28	M16	5/8	3.913	35
6000 psi														
1/2"	GFS601S	21.60	13	40.49	56	18.24	48	36	16	19	M8	5/16	0.296	414
3/4"	GFS602S	27.20	19	50.80	71	23.80	55	35	21	22	M10	3/8	0.532	414
1"	GFS603S	34.00	25	57.15	81	27.76	65	42	25	22	M12	7/16	0.818	414
1 1/4"	GFS604S	42.80	32	66.68	95	31.75	78	45	27	25	M14	1/2	1.178	414
1 1/4"	GFS604S-38	38.30	32	66.68	95	31.75	78	45	27	25	M14	1/2	1.235	414
1 1/2"	GFS605S	48.60	38	79.38	112	36.50	94	50	30	28	M16	5/8	1.850	414
1 1/2"	GFS605S-50	50.50	38	79.38	112	36.50	94	50	30	28	M16	5/8	1.817	414
2"	GFS606S	61.00	51	96.82	134	44.45	114	65	37	32	M20	3/4	3.324	414
2 1/2"	GFS607S	76.60	63	123.83	180	58.73	152	80	48	30	M24	7/8	7.513	414
3"	GFS608S	90.50	73	152.40	208	71.43	178	90	58	30	M30	1 1/8	12.425	414

Specification:

1. Flange only:

Metric thread : GFS301S, GFS301S-X

UNC thread : GFS301SU, GFS301SU-X



AFW--S

Material

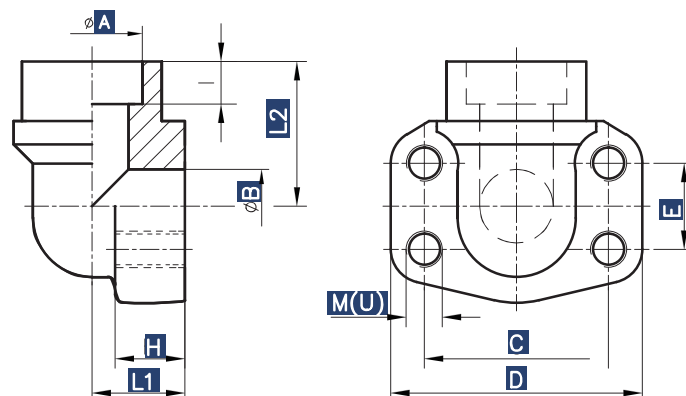
1. carbon steel Q345B
Blank oiled :AFW***S
2. AISI 321/304 :AFW***S-X
3. AISI 316L :AFW***S-XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	H	I	K	L1	L2	M	U			
3000 psi																
1/2"	AFW301S	21.60	13	38.10	54	17.48	16	10	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.345	345
3/4"	AFW302S	27.20	19	47.63	65	22.23	18	10	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.494	345
1"	AFW303S	34.00	25	52.37	70	26.19	19	12	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.704	345
1 1/4"	AFW304S	42.80	32	58.72	79	30.18	21	14	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	1.025	276
1 1/2"	AFW305S	48.60	38	69.85	93	35.71	25	16	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.470	207
2"	AFW306S	61.00	51	77.77	102	42.88	25	18	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	1.834	207
2 1/2"	AFW307S	76.60	60	88.90	115	50.80	25	30	13.5	50	77	M12x45	1/2x1 3/4	69.45x3.53	2.835	160
6000 psi																
1/2"	AFW601S	21.60	13	40.49	56	18.24	16	10	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.393	414
3/4"	AFW602S	27.20	19	50.80	71	23.80	19	12	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.712	414
1"	AFW603S	34.00	25	57.15	79	27.76	21	14	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	0.937	414
1 1/4"	AFW604S	42.80	32	66.68	93	31.75	25	16	15	38	56	M14x45	---	37.70x3.53	1.377	414
1 1/4"	AFW604S-12	42.80	32	66.68	93	31.75	25	16	13.5	38	56	---	1/2x1 3/4	37.70x3.53	1.403	414
1 1/2"	AFW605S	48.60	38	79.38	110	36.50	25	18	17	42	65	M16x50	5/8x2	47.22x3.53	2.105	414
2"	AFW606S	61.00	51	96.82	134	44.45	33	18	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	3.596	414

Specification:

1. Flange only: AFW301S, AFW301S-X
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

SAE SOCKET WELDING COUNTER FLANGE-90°



GFW--S (Metric thread)

GFW--SU (UNC thread)

Material

1. carbon steel Q345B

Blank oiled :GFW***S

2. AISI 321/304 :GFW***S-X

3. AISI 316L :GFW***S-XX

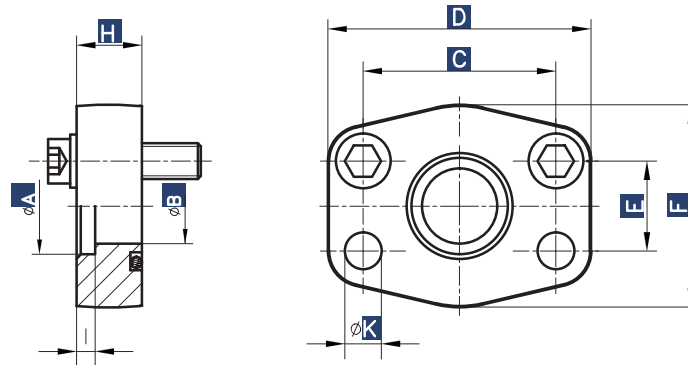
Size (inch)	Type	dimension											Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	H	I	L1	L2	M	U		
3000 psi														
1/2"	GFW301S	21.60	13	38.10	54	17.48	16	10	20	37	M8	5/16	0.367	345
3/4"	GFW302S	27.20	19	47.63	65	22.23	18	10	24	39	M10	3/8	0.522	345
1"	GFW303S	34.00	25	52.37	70	26.19	19	12	28	44	M10	3/8	0.745	345
1 1/4"	GFW304S	42.80	32	58.72	79	30.18	21	14	34	52	M10	7/16	1.071	276
1 1/2"	GFW305S	48.60	38	69.85	93	35.71	25	16	38	57	M12	1/2	1.589	207
2"	GFW306S	61.00	51	77.77	102	42.88	25	18	42	65	M12	1/2	1.879	207
2 1/2"	GFW307S	76.60	60	88.90	115	50.80	25	30	50	77	M12	1/2	2.911	160
6000 psi														
1/2"	GFW601S	21.60	13	40.49	56	18.24	16	10	20	38	M8	5/16	0.414	414
3/4"	GFW602S	27.20	19	50.80	71	23.80	19	12	28	43	M10	3/8	0.752	414
1"	GFW603S	34.00	25	57.15	79	27.76	21	14	34	51	M12	7/16	0.980	414
1 1/4"	GFW604S	42.80	32	66.68	93	31.75	25	16	38	56	M14	1/2	1.443	414
1 1/2"	GFW605S	48.60	38	79.38	110	36.50	25	18	42	65	M16	5/8	2.186	414
2"	GFW606S	61.00	51	96.82	134	44.45	33	18	45	75	M20	3/4	3.733	414

Specification:

1. Flange only:

Metric thread : GFW301S, GFW301S-X

UNC thread : GFW301SU, GFW301SU-X



AFC--S

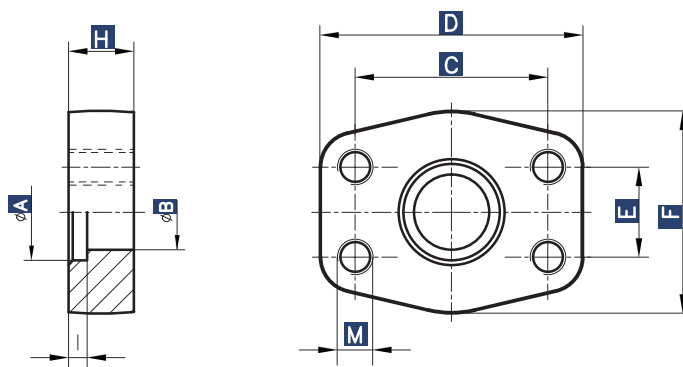
Material

- carbon steel Q345B
Blank oiled :AFC***S
- AISI 316L :AFC***S--XX

Size (inch)	Type	dimension									Accessories for use		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	H	I	K	bolt	o-ring		
1/2"	AFC301S	21.60	15	38.10	54	17.48	46	10	3	9	M8x25	18.66x3.53	0.117	35
3/4"	AFC302S	27.20	20	47.63	65	22.23	50	12	4	11	M10x30	25.00x3.53	0.181	35
1"	AFC303S	34.00	29	52.37	70	26.19	60	12	4	11	M10x30	32.92x3.53	0.197	35
1 1/4"	AFC304S	42.80	34	58.72	79	30.18	68	12	4	11.5	M10x30	37.70x3.53	0.273	35
1 1/2"	AFC305S	49.00	42	69.85	93	35.71	78	15	4	13.5	M12x35	47.22x3.53	0.462	35
2"	AFC306S	61.00	53	77.77	102	42.88	90	15	4	13.5	M12x35	56.75x3.53	0.548	35
2 1/2"	AFC307S	77.00	64	88.90	114	50.80	105	15	4	13.5	M12X35	69.45X3.53	0.677	35
3"	AFC308S	90.00	80	106.38	134	61.93	124	20	5	17	M16x40	85.32x3.53	1.225	35
3 1/2"	AFC309S	103.00	93	120.65	152	69.85	136	20	5	17	M16x40	98.02x3.53	1.481	35
4"	AFC310S	116.00	105	130.18	162	77.77	146	25	6	17	M16x45	110.72x3.53	1.999	35
5"	AFC311S	141.00	126	152.40	190	92.08	170	28	8	17	M16x50	136.12x3.53	2.973	35

Specification:

- Flange only: AFC301S, AFC301S-XX
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- AFC-S and GFC-S assembled: DFC301S, DFC301S-XX



GFC--S (Metric thread)

GFC--SU (UNC thread)

Material

1. carbon steel Q345B

Blank oiled :GFC***S

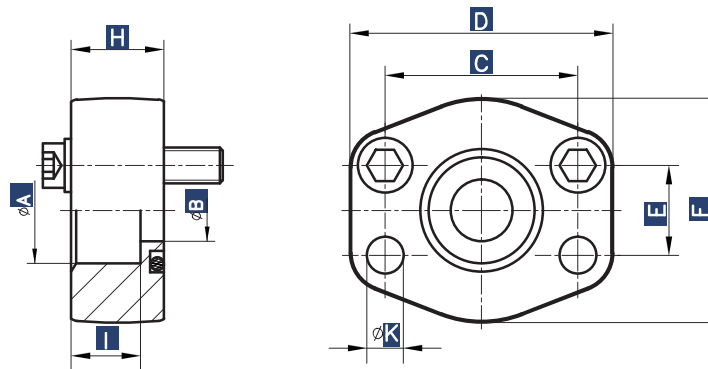
2. AISI 316L :GFC***S-XX

Size (inch)	Type	dimension									Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	H	I	M		
1/2"	GFC301S	21.60	15	38.10	54	17.48	46	10	3	M8	0.132	35
3/4"	GFC302S	27.20	20	47.63	65	22.23	50	12	4	M10	0.204	35
1"	GFC303S	34.00	29	52.37	70	26.19	60	12	4	M10	0.222	35
1 1/4"	GFC304S	42.80	34	58.72	79	30.18	68	12	4	M10	0.303	35
1 1/2"	GFC305S	49.00	42	69.85	93	35.71	78	15	4	M12	0.505	35
2"	GFC306S	61.00	53	77.77	102	42.88	90	15	4	M12	0.595	35
2 1/2"	GFC307S	77.00	64	88.90	114	50.80	105	15	4	M12	0.727	35
3"	GFC308S	90.00	80	106.38	134	61.93	124	20	5	M16	1.307	35
3 1/2"	GFC309S	103.00	93	120.65	152	69.85	136	20	5	M16	1.557	35
4"	GFC310S	116.00	105	130.18	162	77.77	146	25	6	M16	2.091	35
5"	GFC311S	141.00	126	152.40	190	92.08	170	28	8	M16	3.080	35

Specification:

1. Flange only: GFC301S, GFC301S-XX
2. AFC-S and GFC-S assembled: DFC301S, DFC301S-XX
3. GFC-SU: UNC thread flange also available, part No. will be GFC-SU

SAE FLAT SOCKET WELDING COUNTER FLANGE



PAFS--S

Material

1. carbon steel Q345B

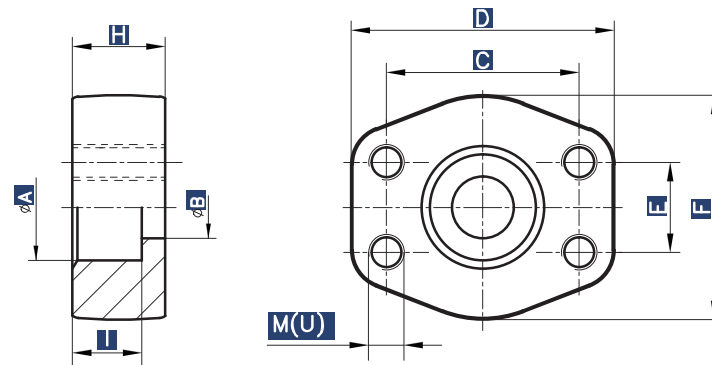
Blank oiled :PAFS***S

2. AISI 316L :PAFS***S--XX

Size (inch)	Type	dimension										Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
												bolt		o-ring		
		A	B	C	D	E	F	H	I	K	M	U				
3000 psi																
1/2"	PAFS301S	21.60	13	38.10	54	17.48	46	19	14.2	8.5	M8x40	5/16x1 1/2	18.66x3.53	0.217	345	
3/4"	PAFS302S	27.00	19	47.63	65	22.23	52	19	14.2	10.5	M10x40	3/8x1 1/2	25.00x3.53	0.291	345	
1"	PAFS303S	34.00	25	52.37	70	26.19	59	22.4	16	10.5	M10x45	3/8x1 3/4	32.92x3.53	0.392	345	
1 1/4"	PAFS304S	42.80	32	58.72	79	30.18	73	24	17.5	11.5	M10x45	7/16x1 3/4	37.70x3.53	0.564	276	
1 1/2"	PAFS305S	48.60	38	69.85	94	35.71	83	30	19	13.5	M12x60	1/2x2 1/4	47.22x3.53	0.988	207	
2"	PAFS306S	61.00	51	77.77	102	42.88	97	35	22.2	13.5	M12x65	1/2x2 1/2	56.75x3.53	1.337	207	
2 1/2"	PAFS307S	73.60	63	88.90	114	50.80	109	44.5	25.4	13.5	M12X70	1/2x2 3/4	69.45X3.53	2.067	160	
3"	PAFS308S	90.50	76	106.38	135	61.93	131	54	31.7	17.5	M16x90	5/8x3 1/2	85.32x3.53	3.374	138	
6000 psi																
1/2"	PAFS601S	21.60	13	40.49	58	18.24	49	31.8	14.2	8.5	M8x50	5/16x2	18.66x3.53	0.459	414	
3/4"	PAFS602S	27.00	19	50.80	75	23.80	63	31.8	14.2	10.5	M10x50	3/8x2	25.00x3.53	0.778	414	
1"	PAFS603S	34.00	25	57.15	81	27.76	70	38	16	13	M12x65	7/16x2 1/2	32.92x3.53	1.026	414	
1 1/4"	PAFS604S	42.80	32	66.68	95	31.75	78	38	17.5	14.5	M14x65	---	37.70x3.53	1.310	414	
1 1/4"	PAFS604S-12	42.80	32	66.68	95	31.75	78	38	17.5	13.5	---	1/2x2 1/2	37.70x3.53	1.334	414	
1 1/2"	PAFS605S	48.60	38	79.38	113	36.50	95	44.5	19	17.5	M16x75	5/8x3	47.22x3.53	2.222	414	
2"	PAFS606S	61.00	51	96.82	133	44.45	114	44.5	22.2	21	M20x75	3/4x3	56.75x3.53	2.979	414	
2 1/2"	PAFS607S	73.60	63	123.83	174	58.73	149	52.3	25.4	26	M24x90	---	69.45X3.53	6.399	414	
3"	PAFS608S	90.50	76	152.40	216	71.43	178	66.5	31.7	32	M30x120	---	85.32x3.53	12.105	414	

Specification:

1. Flange only: PAFS301S, PAFS301S-XX
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. PAFS-S and PGFS-S assembled: PDFS301S, PDFS301S-XX



PGFS--S (Metric thread)
PGFS--SU (UNC thread)

Material

1. carbon steel Q345B

Blank oiled :PGFS***S

2. AISI 316L :PGFS***S--XX

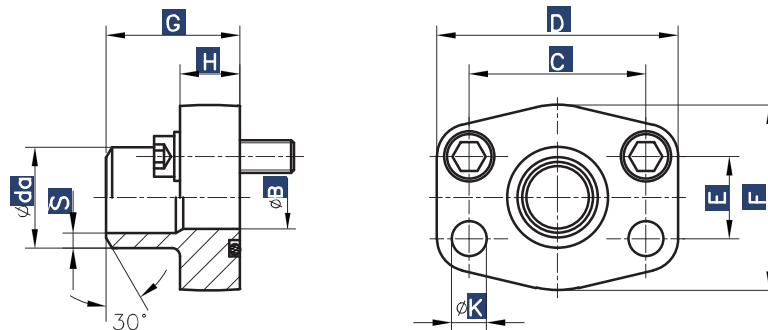
Size (inch)	Type	dimension										Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	H	I	M	U		
3000 psi													
1/2"	PGFS301S	21.60	13	38.10	54	17.48	46	19	14.2	M8	5/16	0.235	345
3/4"	PGFS302S	27.00	19	47.63	65	22.23	52	19	14.2	M10	3/8	0.317	345
1"	PGFS303S	34.00	25	52.37	70	26.19	59	22.4	16	M10	3/8	0.425	345
1 1/4"	PGFS304S	42.80	32	58.72	79	30.18	73	24	17.5	M10	7/16	0.611	276
1 1/2"	PGFS305S	48.60	38	69.85	94	35.71	83	30	19	M12	1/2	1.058	207
2"	PGFS306S	61.00	51	77.77	102	42.88	97	35	22.2	M12	1/2	1.406	207
2 1/2"	PGFS307S	73.60	63	88.90	114	50.80	109	44.5	25.4	M12	1/2	2.175	160
3"	PGFS308S	90.50	76	106.38	135	61.93	131	54	31.7	M16	5/8	3.547	138
6000 psi													
1/2"	PGFS601S	21.60	13	40.49	58	18.24	49	31.8	14.2	M8	5/16	0.487	414
3/4"	PGFS602S	27.00	19	50.80	75	23.80	63	31.8	14.2	M10	3/8	0.816	414
1"	PGFS603S	34.00	25	57.15	81	27.76	70	38	16	M12	7/16	1.088	414
1 1/4"	PGFS604S	42.80	32	66.68	95	31.75	78	38	17.5	M14	1/2	1.382	414
1 1/2"	PGFS605S	48.60	38	79.38	113	36.50	95	44.5	19	M16	5/8	2.354	414
2"	PGFS606S	61.00	51	96.82	133	44.45	114	44.5	22.2	M20	3/4	3.145	414
2 1/2"	PGFS607S	73.60	63	123.83	174	58.73	149	52.3	25.4	M24	---	6.724	414
3"	PGFS608S	90.50	76	152.40	216	71.43	178	66.5	31.7	M30	---	12.659	414

Specification:

1. Flange only:

Metric thread : PGFS301S, PGFS301S-X

UNC thread : PGFS301SU, PGFS301SU-X



AFS--T

daxs

indicates the outer diameter x wall thickness at the butt weld of the flange tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

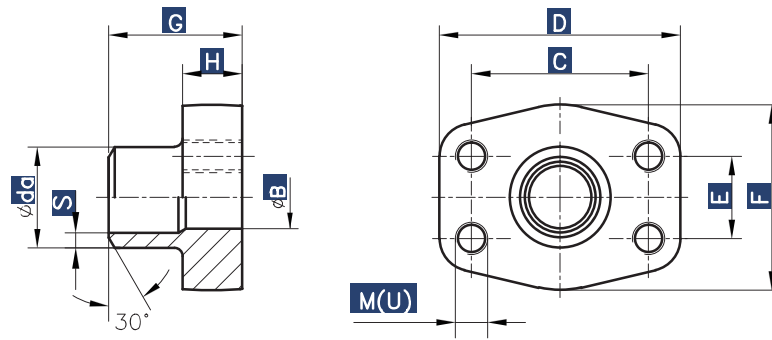
Material

- carbon steel Q345B
Blank oiled :AFS***T
- AISI 321/304 :AFS***T-X
- AISI 316L :AFS***T-XX

Size (inch)	Type	dimension										Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
												bolt		o-ring		
		daxs	B	C	D	E	F	G	H	K	M	U				
3000 psi																
1/2"	AFS301T	16x2.5, 20x3, 21.6x2.6 22x3, 22x4.5	13	38.10	54	17.48	46	36	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.25	345	
3/4"	AFS302T	25x3, 26.9x3, 26.9x4, 28x4.5	19	47.63	65	22.23	50	36	18	11	M10x35	3/8x1 1/2	25.00x3.53	0.39	345	
1"	AFS303T	28x4, 30x4, 33.7x3.2, 33.7x3.6 34x4.5, 34x5, 35x4	25	52.37	70	26.19	55	38	18	11	M10x35	3/8x1 1/2	32.92x3.53	0.46	345	
1 1/4"	AFS304T	35x4, 38x4, 38x5, 42.4x3.6 42.4x4.5, 42.8x5.4	32	58.72	79	30.18	68	41	21	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.66	276	
1 1/2"	AFS305T	38x4, 42.4x3.2, 48.3x3.6, 48.3x4.5 48.3x6.3, 48.6x5.3, 50x3	38	69.85	93	35.71	78	45	25	13.5	M12x45	1/2x1 3/4	47.22x3.53	1.05	207	
2"	AFS306T	48.3x3.2, 60.3x3.2, 60.3x4 60.3x5.6, 60.3x6.3, 61x4, 61x5 61x5.5	51	77.77	102	42.88	90	45	25	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.19	207	
2 1/2"	AFS307T	73x5.3, 73x7 76.1x4, 76.1x5.5, 77x7	63	88.90	114	50.80	105	50	25	13.5	M12x45	1/2x1 3/4	69.45x3.53	1.40	160	
3"	AFS308T	76.1x4, 89x4, 89x5.5, 89x8 90x4, 92x9.5	73	106.38	135	61.93	124	50	27	17	M16x50	5/8x2	85.32x3.53	2.15	138	
3 1/2"	AFS309T	89x4, 90x4, 103x7.1	89	120.65	152	69.85	136	48	27	17	M16x50	5/8x2	98.02x3.53	2.40	35	
4"	AFS310T	114.3x4, 114.3x6, 115.5x8.3	99	130.18	162	77.77	146	48	27	17	M16x50	5/8x2	110.72x3.53	2.85	35	
5"	AFS311T	140x4.5, 140x6.5, 141x10.5	127	152.40	184	92.08	180	50	28	17	M16x55	5/8x2 1/4	136.12x3.53	4.00	35	
6000 psi																
1/2"	AFS601T	16x2.5, 18x3, 22x4.5	13	40.49	56	18.24	48	36	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.26	414	
3/4"	AFS602T	20x3, 26.9x4, 26.9x5.6 26.9x7.8, 28x4.5	19	50.80	71	23.80	55	36	21	11	M10x35	3/8x1 1/2	25.00x3.53	0.50	414	
1"	AFS603T	25x4, 30x4, 33.7x4.5 33.7x7.1, 33.7x9.1, 34.5x6.3	25	57.15	81	27.76	65	42	25	13	M12x45	7/16x1 3/4	32.92x3.53	0.76	414	
1 1/4"	AFS604T	30x4, 38x6, 42.4x5, 42.4x6.3 42.4x8.8, 42.8x5.4, 50x4	32	66.68	95	31.75	78	45	27	15	M14x50	---	37.70x3.53	1.20	414	
1 1/4"	AFS604T-12	30x4, 38x6, 42.4x5, 42.4x6.3 42.4x8.8, 42.8x5.4, 50x4	32	66.68	95	31.75	78	45	27	13.5	---	1/2x1 3/4	37.70x3.53	1.20	414	
1 1/2"	AFS605T	38x6, 48.3x7.1, 48.3x8.8, 48.3x10.2 48.6x5.5, 50x5, 50x8, 60.3x10	38	79.38	112	36.50	94	50	30	17	M16x55	5/8x2 1/4	47.22x3.53	1.65	414	
2"	AFS606T	60.3x10, 60.3x11.1, 61x5.5, 61x9 76.1x10, 76.1x12.5	51	96.82	134	44.45	114	65 80	37 33	21	M20x70	3/4x2 3/4	56.75x3.53	3.15	414	
2 1/2"	AFS607T	73x9.5, 76.1x12.5, 89x11, 89x14.2	63	123.83	180	58.73	152	80	48	26	M24x85	7/8x3 1/2	75.57x5.33	8.30	414	
3"	AFS608T	89x11, 90x12	73	152.40	208	71.43	178	90	58	32	M30x100	1 1/8x4 1/2	88.27x5.33	13.5	414	

Specification:

- Flange only: AFS301T-22x3, AFS301T-22x3-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
- AFS-T and GFS-T assembled: DFS301T-22x3, DFS301T-22x3-X



GFS--T (Metric thread)

GFS--TU (UNC thread)

Material

1. carbon steel Q345B

Blank oiled :GFS***T

2. AISI 321/304 :GFS***T-X

3. AISI 316L :GFS***T-XX

daxs

indicates the outer diameter × wall thickness at the butt weld of the flange tube. A 30° welding bevel is generally provided.

The specifications listed in this catalog are our company's standard ones.

Non-standard customization is available upon customer's request.

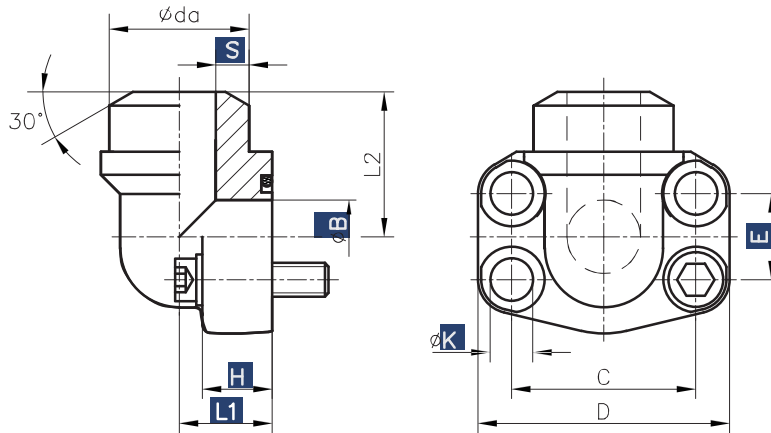
Size (inch)	Type	dimension										Wt (Kg)	MAX.W,P (Kg/cm²)
		daxs	B	C	D	E	F	G	H	M	U		
3000 psi													
1/2"	GFS301T	16x2.5, 20x3, 21.6x2.6 22x3, 22x4.5	13	38.10	54	17.48	46	36	16	M8	5/16	0.25	345
3/4"	GFS302T	25x3, 26.9x3, 26.9x4, 28x4.5	19	47.63	65	22.23	50	36	18	M10	3/8	0.39	345
1"	GFS303T	28x4, 30x4, 33.7x3.2, 33.7x3.6 34x4.5, 34x5, 35x4	25	52.37	70	26.19	55	38	18	M10	3/8	0.46	345
1 1/4"	GFS304T	35x4, 38x4, 38x5, 42.4x3.6 42.4x4.5, 42.8x5.4	32	58.72	79	30.18	68	41	21	M10	7/16	0.66	276
1 1/2"	GFS305T	38x4, 42.4x3.2, 48.3x3.6, 48.3x4.5 48.3x6.3, 48.6x5.3, 50x3	38	69.85	93	35.71	78	45	25	M12	1/2	1.05	207
2"	GFS306T	48.3x3.2, 60.3x3.2, 60.3x4 60.3x5.6, 60.3x6.3, 61x4, 61x5 61x5.5	51	77.77	102	42.88	90	45	25	M12	1/2	1.19	207
2 1/2"	GFS307T	73x5.3, 73x7 76.1x4, 76.1x5.5, 77x7	63	88.90	114	50.80	105	50	25	M12	1/2	1.40	160
3"	GFS308T	76.1x4, 89x4, 89x5.5, 89x8 90x4, 92x9.5	73	106.38	135	61.93	124	50	27	M16	5/8	2.15	138
3 1/2"	GFS309T	89x4, 90x4, 103x7.1	89	120.65	152	69.85	136	48	27	M16	5/8	2.40	35
4"	GFS310T	114.3x4, 114.3x6, 115.5x8.3	99	130.18	162	77.77	146	48	27	M16	5/8	2.85	35
5"	GFS311T	140x4.5, 140x6.5, 141x10.5	127	152.40	184	92.08	180	50	28	M16	5/8	4.00	35
6000 psi													
1/2"	GFS601T	16x2.5, 18x3, 22x4.5	13	40.49	56	18.24	48	36	16	M8	5/16	0.26	414
3/4"	GFS602T	20x3, 26.9x4, 26.9x5.6 26.9x7.8, 28x4.5	19	50.80	71	23.80	55	36	21	M10	3/8	0.50	414
1"	GFS603T	25x4, 30x4, 33.7x4.5 33.7x7.1, 33.7x9.1, 34.5x6.3	25	57.15	81	27.76	65	42	25	M12	7/16	0.76	414
1 1/4"	GFS604T	30x4, 38x6, 42.4x5, 42.4x6.3 42.4x8.8, 42.8x5.4, 50x4	32	66.68	95	31.75	78	45	27	M14	1/2	1.20	414
1 1/2"	GFS605T	38x6, 48.3x7.1, 48.3x8.8, 48.3x10.2 48.6x5.5, 50x5, 50x8, 60.3x10	38	79.38	112	36.50	94	50	30	M16	5/8	1.65	414
2"	GFS606T	60.3x10, 60.3x11.1, 61x5.5, 61x9 76.1x10, 76.1x12.5	51	96.82	134	44.45	114	65 80	37 33	M20	3/4	3.15	414
2 1/2"	GFS607T	73x9.5, 76.1x12.5, 89x11, 89x14.2	63	123.83	180	58.73	152	80	48	M24	7/8	8.30	414
3"	GFS608T	89x11, 90x12	73	152.40	208	71.43	178	90	58	M30	1 1/8	13.5	414

Specification:

1. Flange only:

Metric thread : GFS301T-22x3, GFS301T-22x3-X

UNC thread : GFS301TU-22x3, GFS301TU-22x3-X



AFW--T

da x s

indicates the outer diameter × wall thickness at the butt weld of the flange tube. A 30° welding bevel is generally provided. The specifications listed in this catalog are our company's standard ones. Non-standard customization is available upon customer's request.

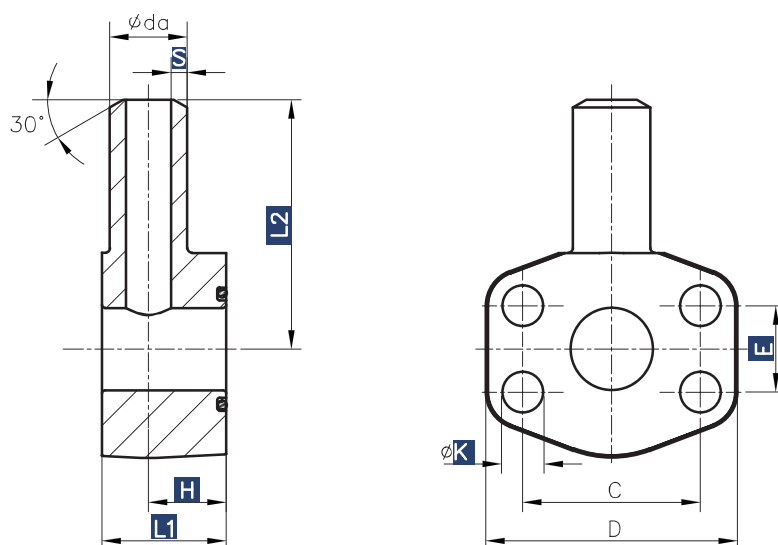
Material

- carbon steel Q345B
Blank oiled :AFW***T
- AISI 321/304 :AFW***T-X
- AISI 316L :AFW***T-XX

Size (inch)	Type	dimension										Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
												bolt		o-ring		
		daxs	B	C	D	E	H	K	L1	L2	M	U				
3000 psi																
1/2"	AFW301T	22X3, 22x4.5	13	38.10	54	17.48	16	9	20	37	M8x30	5/16x1 1/4	18.66x3.53	0.33	345	
3/4"	AFW302T	27.2x4, 28x4, 30x4, 35x4	19	47.63	65	22.23	18	11	24	39	M10x35	3/8x1 1/2	25.00x3.53	0.49	345	
1"	AFW303T	30x4, 35x4	25	52.37	70	26.19	19	11	28	44	M10x35	3/8x1 1/2	32.92x3.53	0.66	345	
1 1/4"	AFW304T	38x4, 42.4x4, 42.8x5.4	32	58.72	79	30.18	21	11.5	34	52	M10x40	7/16x1 1/2	37.70x3.53	1.20	276	
1 1/2"	AFW305T	42.4x4, 48.3x4.5 48.6x5.3, 50x6	38	69.85	93	35.71	25	13.5	38	57	M12x45	1/2x1 3/4	47.22x3.53	1.65	207	
2"	AFW306T	60.3x4, 60.3x5.6, 61x5	51	77.77	102	42.88	25	13.5	42	65	M12x45	1/2x1 3/4	56.75x3.53	2.00	207	
2 1/2"	AFW307T	77x7.1, 77x8.5, 77x10	60	88.90	115	50.80	25	13.5	50	77	M12x45	1/2x1 3/4	69.45x3.53	2.95	160	
6000 psi																
1/2"	AFW601T	20x3, 22x4	13	40.49	56	18.24	16	9	20	38	M8x30	5/16x1 1/4	18.66x3.53	0.35	414	
3/4"	AFW602T	25x4, 26.9x4, 28x4.5	19	50.80	71	23.80	19	11	28	43	M10x35	3/8x1 1/2	25.00x3.53	0.70	414	
1"	AFW603T	30x4, 34x4.5 35x5, 38x5	25	57.15	79	27.76	21	13	34	51	M12x40	7/16x1 3/4	32.92x3.53	1.00	414	
1 1/4"	AFW604T	35x4, 38x5 42.4x6, 42.8x5.4	32	66.68	93	31.75	25	15	38	56	M14x45	---	37.70x3.53	1.40	414	
1 1/4"	AFW604T-12	35x4, 38x5 42.4x6, 42.8x5.4	32	66.68	93	31.75	25	13.5	38	56	---	1/2x1 3/4	37.70x3.53	1.40	414	
1 1/2"	AFW605T	48.3x8, 48.6x5.3, 50x6	38	79.38	110	36.50	25	17	42	65	M16x50	5/8x2	47.22x3.53	2.80	414	
2"	AFW606T	60.3x10, 61x5, 61x8	51	96.82	134	44.45	33	21	45	75	M20x65	3/4x2 1/2	56.75x3.53	4.00	414	

Specification:

- Flange only: AFW301T-22x4, AFW301T-22x4-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U



AGW--T

da x s

indicates the outer diameter x wall thickness at the butt weld of the flange tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

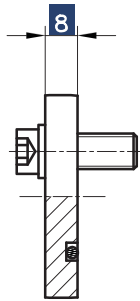
Material

1. carbon steel Q345B
Blank oiled :AGW***T
2. AISI 321/304 :AGW***T-X
3. AISI 316L :AGW***T-XX

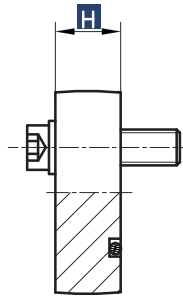
Size (inch)	Type	dimension								Wt (kg)	MAX.W.P (kg/cm ²)
		daxs	C	D	E	H	K	L1	L2		
3000 psi											
1/2"	AGW301T	22x3, 22x4.5	38.10	56	17.48	20	9	32	50	0.7	345
3/4"	AGW302T	28x4, 30x4	47.63	71	22.23	24	11	39	60	1.0	345
1"	AGW303T	30x4, 35x4	52.37	81	26.19	28	11	46	70	1.4	345
11/4"	AGW304T	38x4, 42.4x4 42.8x5.4	58.72	95	30.18	32	11.5	54.5	75	2.5	276
11/2"	AGW305T	42.4x4, 48.3x4.5 48.6x5.3, 50x6	69.85	112	35.71	38	13.5	64	90	3.8	207
6000 psi											
1/2"	AGW601T	20x3, 22x4	40.49	56	18.24	20	9	32	50	0.7	414
3/4"	AGW602T	25x4, 28x4.5	50.80	71	23.80	24	11	39	60	1.0	414
1"	AGW603T	30x4, 35x5	57.15	81	27.76	28	13	46	70	1.4	414
11/4"	AGW604T (-12)	35x4, 38x5 42.8x5.4	66.68	95	31.75	32	15 13.5	54.5	75	2.5	414
11/2"	AGW605T	48.3x8, 48.6x5.3 50x6	79.38	112	36.50	38	17	64	90	3.8	414

Specification:

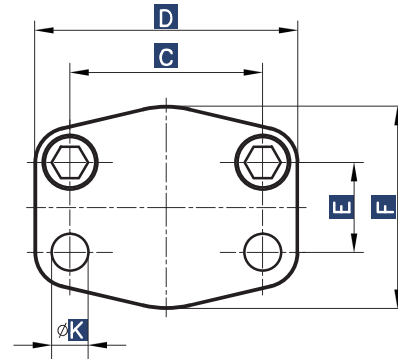
1. Flange only: AGW301T-22x3, AGW301T-22x3-X



AFC--L



AFC



Material

1. carbon steel Q345B/C45

Blank oiled :AFC***

Cr+3 white zinked :AFC***-CFX

Ni-Zn zinked :AFC***-ZN

2. AISI 316L :AFC***-XX

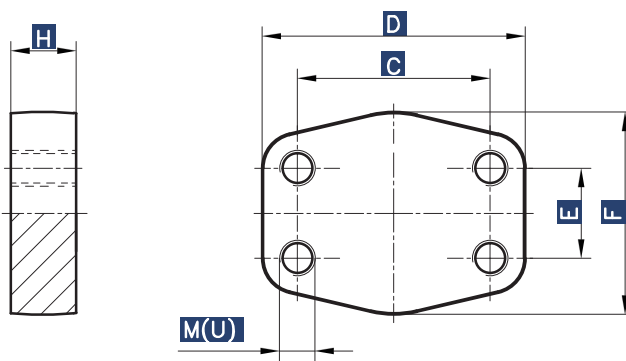
Shipping plate AFC--L will be available for the Zero pressure situation to reduce the cost and the weight.

Size (inch)	Type	dimension						Accessories for use			Wt (kg)	MAX.W.P (kg/cm ²)
								bolt		o-ring		
		C	D	E	F	H	K	M	U			
3000 psi												
1/2"	AFC301	38.10	54	17.48	46	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.216	345
3/4"	AFC302	47.63	65	22.23	50	16	11	M10x35	3/8x1 1/2	25.00x3.53	0.300	345
1"	AFC303	52.37	70	26.19	60	19	11	M10x35	3/8x1 1/2	32.92x3.53	0.451	345
1 1/4"	AFC304	58.72	79	30.18	68	18	11.5	M10x40	7/16x1 1/2	37.70x3.53	0.562	276
1 1/2"	AFC305	69.85	93	35.71	78	20	13.5	M12x45	1/2x1 3/4	47.22x3.53	0.853	207
2"	AFC306	77.77	102	42.88	90	20	13.5	M12x45	1/2x1 3/4	56.75x3.53	1.107	207
2 1/2"	AFC307	88.90	114	50.80	105	20	13.5	M12X45	1/2X1 3/4	69.45X3.53	1.469	160
3"	AFC308	106.38	134	61.93	124	24	17.5	M16x50	5/8x2	85.32x3.53	2.457	138
3 1/2"	AFC309	120.65	152	69.85	136	22	17.5	M16x50	5/8x2	98.02x3.53	2.844	35
4"	AFC310	130.18	162	77.77	146	25	17.5	M16x50	5/8x2	110.72x3.53	3.750	35
5"	AFC311	152.40	190	92.08	170	28	17.5	M16x55	5/8x2 1/4	136.12x3.53	5.865	35
6000 psi												
1/2"	AFC601	40.49	56	18.24	48	16	9	M8x30	5/16x1 1/4	18.66x3.53	0.235	414
3/4"	AFC602*	50.80	71	23.80	60	19	11	M10x35	3/8x1 1/2	25.00x3.53	0.457	414
1"	AFC603*	57.15	81	27.76	70	24	13	M12x45	7/16x1 3/4	32.92x3.53	0.775	414
1 1/4"	AFC604*	66.68	95	31.75	78	27	15	M14x50	---	37.70x3.53	1.149	414
1 1/4"	AFC604-12*	66.68	95	31.75	78	27	13.5	---	1/2x1 3/4	37.70x3.53	1.177	414
1 1/2"	AFC605	79.38	112	36.50	94	30	17	M16x55	5/8x2 1/4	47.22x3.53	1.809	414
2"	AFC606	96.82	134	44.45	114	28	21	M20x65	3/4x2 1/2	56.75x3.53	2.425	414
2"	AFC606-H35	96.82	134	44.45	114	35	21	M20x70	3/4x2 3/4	56.75x3.53	3.026	414
2 1/2"	AFC607	123.83	180	58.73	152	45	26	M24x80	7/8x3 1/2	75.57x5.33	7.205	414
3"	AFC608	152.40	208	71.43	178	55	32	M30x100	1 1/8x4 1/2	88.27x5.33	11.687	414

* For this part H=29 also can be supplied

Specification:

1. Flange only: AFC301, AFC301-XX, AFC301L, AFC301L-XX
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U



GFC-- (Metric thread)
GFC--U (UNC thread)

Material

1. carbon steel Q345B
Blank oiled :GFC***
Cr+3 white zinked :GFC***-CFX
Ni-Zn zinked :GFC***-ZN
2. AISI 316L :GFC***-XX

Size (inch)	Type	dimension							Wt (kg)	MAX.W.P (kg/cm ²)
		C	D	E	F	H	M	U		
3000 psi										
1/2"	GFC301	38.10	54	17.48	46	16	M8	5/16	0.237	345
3/4"	GFC302	47.63	65	22.23	50	16	M10	3/8	0.330	345
1"	GFC303	52.37	70	26.19	60	19	M10	3/8	0.487	345
1 1/4"	GFC304	58.72	79	30.18	68	18	M10	7/16	0.602	276
1 1/2"	GFC305	69.85	93	35.71	78	20	M12	1/2	0.910	207
2"	GFC306	77.77	102	42.88	90	20	M12	1/2	1.166	207
2 1/2"	GFC307	88.90	114	50.80	105	20	M12	1/2	1.532	160
3"	GFC308	106.38	134	61.93	124	24	M16	5/8	2.553	138
3 1/2"	GFC309	120.65	152	69.85	136	22	M16	5/8	2.938	35
4"	GFC310	130.18	162	77.77	146	25	M16	5/8	3.856	35
5"	GFC311	152.40	190	92.08	170	28	M16	5/8	5.987	35
6000 psi										
1/2"	GFC601	40.49	56	18.24	48	16	M8	5/16	0.256	414
3/4"	GFC602*	50.80	71	23.80	60	19	M10	3/8	0.491	414
1"	GFC603*	57.15	81	27.76	70	24	M12	7/16	0.821	414
1 1/4"	GFC604*	66.68	95	31.75	78	27	M14	1/2	1.218	414
1 1/2"	GFC605	79.38	112	36.50	94	30	M16	5/8	1.897	414
2"	GFC606	96.82	134	44.45	114	28	M20	3/4	2.543	414
2"	GFC606-H35	96.82	134	44.45	114	35	M20	3/4	3.144	414
2 1/2"	GFC607	123.83	180	58.73	152	45	M24	7/8	7.531	414
3"	GFC608	152.40	208	71.43	178	55	M30	1 1/8	12.186	414

* For this part H=29 also can be supplied

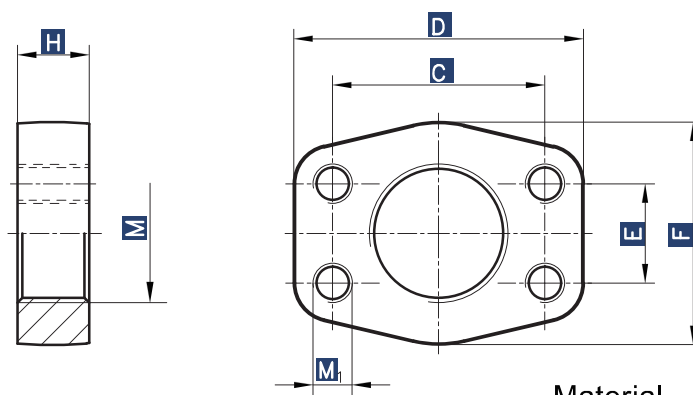
Specification:

1. Flange only:

Metric thread : GFC301, GFC301-X

UNC thread : GFC301U, GFC301U-X

SAE FLANGE FOR BALL VALVE



GFC--M--

Material

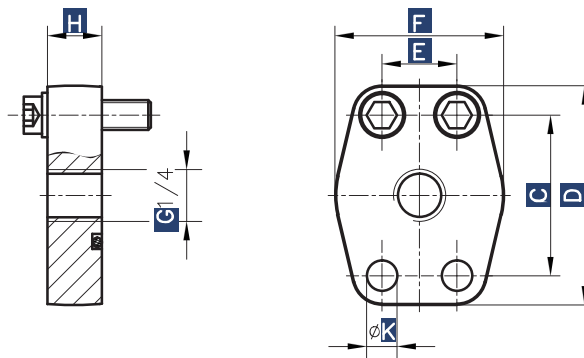
1. carbon steel Q345B
 - Blank oiled :GFC***-M
 - Cr+3 white zinked :GFC***-M--CFX
 - Ni-Zn zinked :GFC***-M--ZN
2. AISI 316L :GFC***-M--XX

Size (inch)	Type	dimension							Wt (kg)
		M	C	D	E	F	H	M ₁	
3000 psi									
1/2"	GFC301-M30x2	M30x2	38.10	56	17.48	48	13	M8	0.147
	GFC301-M32x1.5	M32x1.5		54		46	16		0.146
3/4"	GFC302-M39x2	M39x2	47.63	65	22.23	50	14	M10	0.162
	GFC302-M39x1.5	M39x1.5		65		52	18		0.217
1"	GFC303-M45x2	M45x2	52.37	70	26.19	60	16	M10	0.227
	GFC303-M46x1.5	M46x1.5		70		59	19		0.248
1 1/4"	GFC304-M52x3	M52x3	58.72	79	30.18	68	16	M12	0.285
	GFC304-M52x2	M52x2		79		73	21	M10	0.426
1 1/2"	GFC305-M64x3	M64x3	69.85	93	35.71	78	16	M12	0.357
	GFC305-M62x2	M62x2		94		83	25		0.643
2"	GFC306-M72x3	M72x3	77.77	102	42.88	90	16	M12	0.461
	GFC306-M72x2	M72x2		102		97	26		0.770
2 1/2"	GFC307-M85x3	M85x3	88.90	114	50.80	105	19	M12	0.667
6000 psi									
1/2"	GFC601-M30x2	M30x2	40.49	56	18.24	48	16	M8	0.182
	GFC601-M32x1.5	M32x1.5		56		48	16		0.165
3/4"	GFC602-M39x2	M39x2	50.80	71	23.80	60	19	M10	0.330
	GFC602-M39x1.5	M39x1.5		71		60	19		0.327
1"	GFC603-M45x2	M45x2	57.15	81	27.76	70	24	M12	0.547
	GFC603-M46x1.5	M46x1.5		81		70	24		0.530
1 1/4"	GFC604-M52x3	M52x3	66.68	95	31.75	78	27	M14	0.818
	GFC604-M52x2	M52x2		95		78	27		0.804
1 1/2"	GFC605-M64x3	M64x3	79.38	112	36.50	94	30	M16	1.207
	GFC605-M62x2	M62x2		112		94	30		1.235
2"	GFC606-M72x3	M72x3	96.82	134	44.45	114	35	M20	2.149
	GFC606-M72x2	M72x2		134		114	35		2.115

Specification:

1. Flange only: GFC301-M30x2, GFC301-M30x2-XX

SAE FLANGE WITH TESTING-POINT -STRAIGHT



AFC--G1/4

Material

1. carbon steel Q345B

Blank oiled :AFC***-G1/4

Cr+3 white zinked :AFC***-G1/4--CFX

Ni-Zn zinked :AFC***-G1/4--ZN

2. AISI 316L :AFC***-G1/4--XX

Test Point M10x1,NPT1/4,SAE4# also can be supplied,
Part No. AFC--M10x1、AFC--N1/4、AFC--SAE4

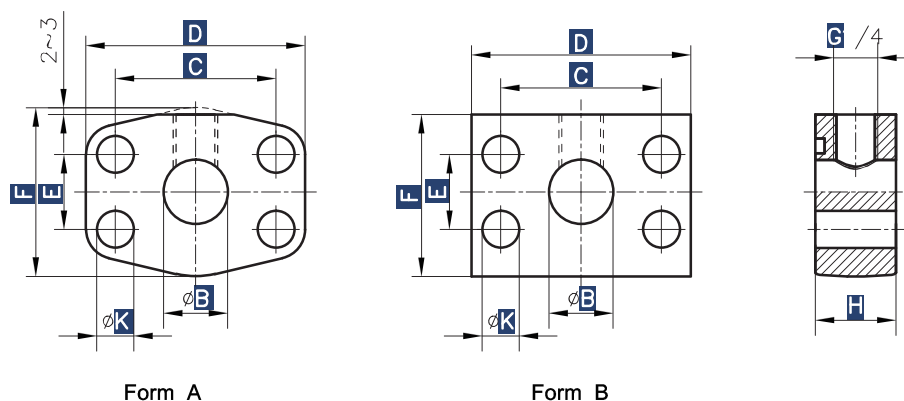
Size (inch)	Type	dimension						Accessories for use		Wt (kg)	MAX.W.P (kg/cm ²)
		C	D	E	F	H	K	bolt	o-ring		
3000 psi											
1/2"	AFC301-G1/4	38.10	54	17.48	46	16	9	M8x30	18.66x3.53	0.201	345
3/4"	AFC302-G1/4	47.63	65	22.23	50	16	11	M10x35	25.00x3.53	0.285	345
1"	AFC303-G1/4	52.37	70	26.19	60	19	11	M10x35	32.92x3.53	0.432	345
1 1/4"	AFC304-G1/4	58.72	79	30.18	68	18	11.5	M10x40	37.70x3.53	0.544	276
1 1/2"	AFC305-G1/4	69.85	93	35.71	78	20	13.5	M12x45	47.22x3.53	0.836	207
2"	AFC306-G1/4	77.77	102	42.88	90	20	13.5	M12x45	56.75x3.53	1.087	207
2 1/2"	AFC307-G1/4	88.90	114	50.80	105	20	13.5	M12X45	69.45X3.53	1.451	160
3"	AFC308-G1/4	106.38	134	61.93	124	24	17.5	M16x50	85.32x3.53	2.468	138
3 1/2"	AFC309-G1/4	120.65	152	69.85	136	22	17.5	M16x50	98.02x3.53	2.825	35
4"	AFC310-G1/4	130.18	162	77.77	146	25	17.5	M16x50	110.72x3.53	3.725	35
5"	AFC311-G1/4	152.40	190	92.08	170	28	17.5	M16x55	136.12x3.53	5.841	35
6000 psi											
1/2"	AFC601-G1/4	40.49	56	18.24	48	16	9	M8x30	18.66x3.53	0.220	414
3/4"	AFC602-G1/4*	50.80	71	23.80	60	19	11	M10x35	25.00x3.53	0.441	414
1"	AFC603-G1/4*	57.15	81	27.76	70	24	13	M12x45	32.92x3.53	0.754	414
1 1/4"	AFC604-G1/4*	66.68	95	31.75	78	27	15	M14x50	37.70x3.53	1.126	414
1 1/2"	AFC605-G1/4	79.38	112	36.50	94	30	17	M16x50	47.22x3.53	1.782	414
2"	AFC606-G1/4**	96.82	134	44.45	114	28*	21	M20x65	56.75x3.53	2.399	414
2 1/2"	AFC607-G1/4	123.83	180	58.73	152	45	26	M24x80	75.57x5.33	7.167	414

* For this part H=29 also can be supplied

** For this part H=35 also can be supplied

Specification:

1. Flange only: AFC301-G1/4, AFC301-G1/4-XX, AFC301-M10x1, AFC301-SAE4, AFC301-N1/4-XX
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U



AGL--G1/4

Material

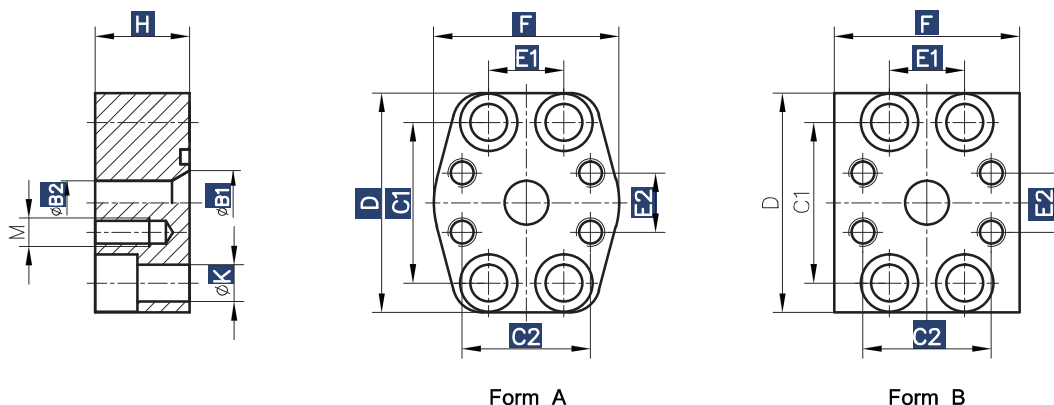
- carbon steel Q345B/C45
Blank oiled :AGL***-G1/4
Cr+3 white zinked :AGL***-G1/4--CFX
Ni-Zn zinked :AGL***-G1/4--ZN
- AISI 321/304 :AGL***-G1/4--X
- AISI 316L :AGL***-G1/4--XX

Test Point M10x1,NPT1/4,SAE4# also can be supplied,
Part No. AGL--M10x1、AGL--N1/4、AGL--SAE4

Size (inch)	Type	dimension							Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E	F	H	K		
3000 psi										
1/2"	AGL301-G1/4	13	38.10	56	17.48	46	24	9	0.314	345
3/4"	AGL302-G1/4	19	47.63	65	22.23	50	24	11	0.370	345
1"	AGL303-G1/4	25	52.37	71	26.19	60	24	11	0.464	345
11/4"	AGL304-G1/4	32	58.72	79	30.18	68	24	12.5	0.571	276
11/2"	AGL305-G1/4	38	69.85	93	35.71	78	24	13.5	0.794	207
2"	AGL306-G1/4	51	77.77	102	42.88	90	24	13.5	0.929	207
21/2"	AGL307-G1/4	63	88.90	114	50.80	105	25	13.5	1.208	160
3"	AGL308-G1/4	73	106.38	134	61.93	124	23	17.5	1.562	138
31/2"	AGL309-G1/4	89	120.65	152	69.85	136	25	17	2.004	35
4"	AGL310-G1/4	102	130.18	162	77.77	146	25	17	2.145	35
6000 psi										
1/2"	AGL601-G1/4	13	40.49	56	18.24	46	24	9	0.314	414
3/4"	AGL602-G1/4	19	50.80	71	23.80	60	24	11	0.497	414
1"	AGL603-G1/4	25	57.15	81	27.76	70	24	13	0.658	414
11/4"	AGL604-G1/4	32	66.68	96	31.75	80	24	15	0.857	414
11/2"	AGL605-G1/4	38	79.38	112	36.50	94	24	17	1.213	414
2"	AGL606-G1/4	51	96.82	134	44.45	114	24	21	1.675	414

Specification:

- Flange only: AGL301-G1/4, AGL301-G1/4-X, AGL301-M10x1, AGL301-M10x1-X, AGL301-N1/4, AGL301-N1/4-X
AGL301-SAE4, AGL301-SAE4-X

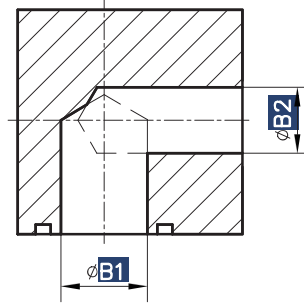
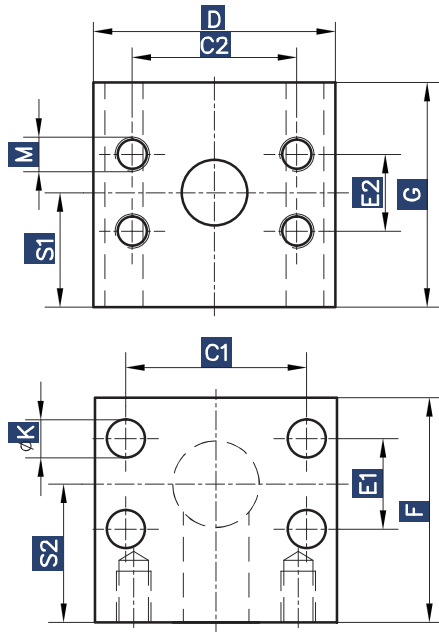


G-AF

Material

- carbon steel Q345B/C45
Blank oiled :G-AF-***
Cr+3 white zinked :G-AF-***-CFX
Ni-Zn zinked :G-AF-***-ZN
- AISI 321/304 :G-AF-***-X
- AISI 316L :G-AF-***-XX

Size (inch)	Type	dimension										Accessories for use		Wt (kg)	MAX.W.P (kg/cm ²)
		B1/B2	C1	C2	D	E1	E2	F	H	K	M	bolt	o-ring		
3000 psi															
3/4"-1/2"	G-AF-302/301	19/13	47.63	38.10	67	22.23	17.48	56	28	11	M8	M10x35	25.00x3.53	0.624	345
1"-3/4"	G-AF-303/302	25/19	52.37	47.63	72	26.19	22.23	65	30	11	M10	M10x35	32.92x3.53	0.833	345
1 1/4"-1"	G-AF-304/303	32/25	58.72	52.37	80	30.18	26.19	70	30	11.5	M10	M10x40	37.70x3.53	0.992	276
1 1/2"-1 1/4"	G-AF-305/304	38/32	69.85	58.72	95	35.71	30.18	80	30	13.5	M10	M12x45	47.22x3.53	1.317	207
2"-1 1/2"	G-AF-306/305	46/38	77.77	69.85	102	42.88	35.71	95	30	13.5	M12	M12x45	56.75x3.53	1.677	207
2"-1 1/4"	G-AF-306/304	51/32	77.77	58.72	102	42.88	30.18	80	35	13.5	M10	M12x45	56.75x3.53	1.645	207
2 1/2"-2"	G-AF-307/306	63/51	88.90	77.77	114	50.80	42.88	109	35	13.5	M12	M12X45	69.45X3.53	2.067	160
2 1/2"-1 1/2"	G-AF-307/305	63/38	88.90	69.85	114	50.80	35.71	109	35	13.5	M12	M12x45	69.45x3.53	2.192	160
3"-2"	G-AF-308/306	73/51	106.38	77.77	140	61.93	42.88	114	40	17	M12	M16x50	85.32x3.53	3.201	138
3"-2 1/2"	G-AF-308/307	73/63	106.38	88.90	140	61.93	50.80	114	40	17	M12	M16X50	85.32x3.53	2.940	138
6000 psi															
3/4"-1/2"	G-AF-602/601	19/13	50.80	40.49	70	23.80	18.24	56	28	11	M8	M10x35	25.00x3.53	0.659	414
3/4"-3/4"	G-AF-602/602	19	50.80	50.80	70	23.80	23.80	70	28	11	M10	M10x35	25.00x3.53	0.829	414
1"-3/4"	G-AF-603/602	25/19	57.15	50.80	81	27.76	23.80	70	30	13	M10	M12x45	32.92x3.53	0.768	414
1"-1"	G-AF-603/603	25	57.15	57.15	81	27.76	27.76	75	36	13	M12	M12x45	32.92x3.53	0.991	414
1 1/4"-1"	G-AF-604/603	32/25	66.68	57.15	100	31.75	27.76	83	35	15	M12	M14x45	37.70x3.53	1.743	414
1 1/4"-1 1/4"	G-AF-604/604	32	66.68	66.68	100	31.75	31.75	90	35	15	M14	M14x45	37.70x3.53	1.826	414
1 1/2"-1 1/4"	G-AF-605/604	40/32	79.38	66.68	113	36.50	31.75	95	48	17	M14	M16X55	47.22X3.53	2.345	414
1 1/2"-1 1/2"	G-AF-605/605	38	79.38	79.38	113	36.50	36.50	113	50	17	M16	M16x55	47.22x3.53	2.822	414
2"-1 1/2"	G-AF-606/605	51/38	96.82	79.38	140	44.45	36.50	125	60	21	M16	M20x60	56.75x3.53	4.707	414
2 1/2"-2"	G-AF-607/606	63/51	123.83	96.82	180	58.73	44.45	152	70	26	M20	M24X80	69.45x3.53	8.668	414

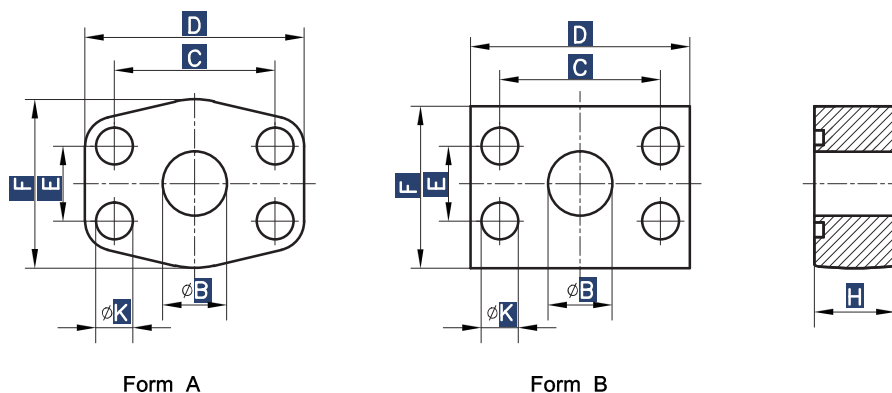


L-GD

Material

1. carbon steel Q345B/C45
Blank oiled : L-GD-***
Cr+3 white zinked : L-GD-***-CFX
Ni-Zn zinked : L-GD-***-ZN
2. AISI 321/304 : L-GD-***-X
3. AISI 316L : L-GD-***-XX

Size (inch)	Type	dimension												Accessories for use		Wt (kg)	MAX.W.P (kg/cm ²)
		B1/B2	C1	C2	D	E1	E2	F	G	K	M	S1	S2	bolt	o-ring		
3000 psi																	
1/2"-1/2"	L-GD-301	13	38.10	38.10	55	17.48	17.48	55	50	9	M8	25	35	M8x65	18.66x3.53	0.993	345
3/4"-3/4"	L-GD-302	19	47.63	47.63	65	22.23	22.23	60	60	11	M10	30	40	M10x75	25.00x3.53	1.453	345
3/4"-1/2"	L-GD-302/301	19/13	47.63	38.10	65	22.23	17.48	60	60	11	M8	30	40	M10x75	25.00x3.53	1.521	345
1"-1"	L-GD-303	25	52.37	52.37	72	26.19	26.19	65	65	11	M10	33	40	M10x80	32.92x3.53	1.870	345
1"-3/4"	L-GD-303/302	25/19	52.37	47.63	72	26.19	22.23	65	65	11	M10	33	40	M10x80	32.92x3.53	1.932	345
1 1/4"-1 1/4"	L-GD-304	32	58.72	58.72	82	30.18	30.18	82	80	11.5	M10	39	38	M10x95	37.70x3.53	3.451	276
1 1/4"-1"	L-GD-304/303	32/25	58.72	52.37	82	30.18	26.19	80	80	11.5	M10	39	38	M10X95	37.70X3.53	3.523	276
1 1/2"-1 1/2"	L-GD-305	38	69.85	69.85	98	35.71	35.71	92	92	13.5	M12	51	59	M12x110	47.22x3.53	5.063	207
1 1/2"-1 1/4"	L-GD-305/304	38/32	69.85	58.72	98	35.71	30.18	92	92	13.5	M10	51	59	M12x110	47.22x3.53	5.245	207
2"-2"	L-GD-306	46	77.77	77.77	102	42.88	42.88	85	87	13.5	M12	51	48	M12X110	56.75x3.53	3.965	207
2"-1 1/2"	L-GD-306/305	51/38	77.77	69.85	102	42.88	35.71	85	87	13.5	M12	51	48	M12x110	56.75x3.53	4.254	207
2 1/2"-2 1/2"	L-GD-307	63	88.90	88.90	115	50.80	50.80	110	120	13.5	M12	60	65	M12X140	69.45X3.53	8.406	160
2 1/2"-2"	L-GD-307/306	63/51	88.90	77.77	115	50.80	42.88	110	120	13.5	M12	60	65	M12x140	69.45x3.53	8.888	160
3"-3"	L-GD-308	73	106.38	106.38	135	61.93	61.93	150	135	17.5	M16	67	90	M16x150	85.32x3.53	15.378	138
3"-2 1/2"	L-GD-308/307	73/63	106.38	88.90	135	61.93	50.80	150	135	17.5	M12	67	90	M16X150	85.32x3.53	16.130	138
6000 psi																	
1/2"-1/2"	L-GD-601	13	40.49	40.49	60	18.24	18.24	60	50	9	M8	25	40	M8x60	18.66x3.53	1.217	414
3/4"-3/4"	L-GD-602	19	50.80	50.80	72	23.80	23.80	60	55	11	M10	32	36	M11x70	25.00x3.53	1.509	414
3/4"-1/2"	L-GD-602/601	19/13	50.80	40.49	72	23.80	18.24	60	55	11	M8	32	36	M10x70	25.00x3.53	1.563	414
1"-1"	L-GD-603	23	57.15	57.15	82	27.76	27.76	68	64	14	M12	37	40	M12x80	32.92x3.53	2.184	414
1"-3/4"	L-GD-603/602	23/19	57.15	50.80	82	27.76	23.80	68	64	14	M10	37	40	M12x80	32.92x3.53	2.240	414
1 1/4"-1 1/4"	L-GD-604	30	66.68	66.68	96	31.75	31.75	76	72	16	M14	41	46	M14x90	37.70x3.53	3.107	414
1 1/4"-1"	L-GD-604/603	30/23	66.68	57.15	96	31.75	27.76	76	72	16	M12	41	46	M14X90	37.70X3.53	3.227	414
1 1/2"-1 1/2"	L-GD-605	38	79.38	79.38	114	36.50	36.50	86	89	18	M16	50	52	M16x110	47.22x3.53	5.125	414
1 1/2"-1 1/4"	L-GD-605/604	38/30	79.38	66.68	114	36.50	31.75	86	89	18	M14	50	52	M16x110	47.22x3.53	5.314	414
2"-2"	L-GD-606	50	96.82	96.82	133	44.45	44.45	107	107	22	M20	64	70	M20X140	56.75x3.53	8.391	414
2"-1 1/2"	L-GD-606/605	50/38	96.82	79.38	133	44.45	36.50	107	107	22	M16	64	70	M20x140	56.75x3.53	8.939	414
2 1/2"-2 1/2"	L-GD-607	63	123.83	123.83	180	58.73	58.73	160	155	26	M24	77.5	90	M24x200	75.57x5.33	27.964	414
2 1/2"-2"	L-GD-607/606	63/50	123.83	96.82	180	58.73	44.45	160	155	26	M20	77.5	90	M24X200	75.57x5.33	28.865	414



AGL--

Material

1. carbon steel Q345B

Blank oiled :AGL***

Cr+3 white zinked:AGL***-CFX

Ni-Zn zinked :AGL***-ZN

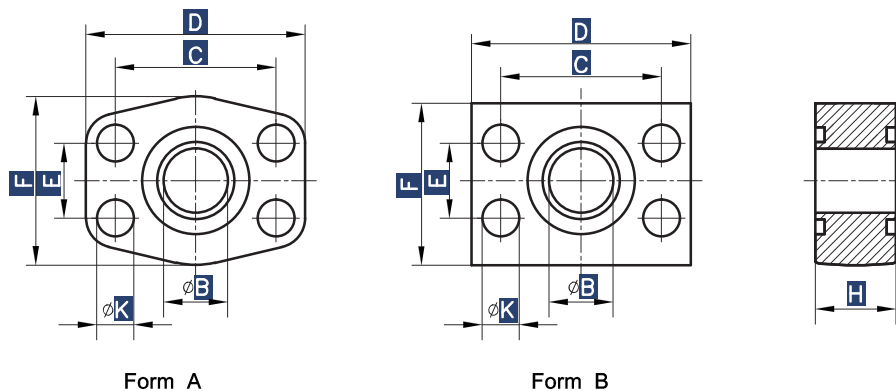
2. AISI 321/304 :AGL***-X

3. AISI 316L :AGL***-XX

Size (inch)	Type	dimension							Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E	F	H	K		
3000 psi										
1/2"	AGL301	13	38.10	56	17.48	46	24	9	0.331	345
3/4"	AGL302	19	47.63	65	22.23	50	24	11	0.386	345
1"	AGL303	25	52.37	71	26.19	60	24	11	0.481	345
11/4"	AGL304	32	58.72	79	30.18	68	24	12.5	0.589	276
11/2"	AGL305	38	69.85	93	35.71	78	24	13.5	0.814	207
2"	AGL306	51	77.77	102	42.88	90	24	13.5	0.949	207
21/2"	AGL307	63	88.90	114	50.80	105	25	13.5	1.230	160
3"	AGL308	73	106.38	134	61.93	124	23	17.5	1.588	138
31/2"	AGL309	89	120.65	152	69.85	136	25	17	2.029	35
4"	AGL310	99	130.18	162	77.77	146	25	17	2.164	35
6000 psi										
1/2"	AGL601	13	40.49	56	18.24	46	24	9	0.331	414
3/4"	AGL602	19	50.80	71	23.80	60	24	11	0.520	414
1"	AGL603	25	57.15	81	27.76	70	24	13	0.680	414
11/4"	AGL604	32	66.68	96	31.75	80	24	15	0.884	414
11/2"	AGL605	38	79.38	112	36.50	94	24	17	1.266	414
2"	AGL606	51	96.82	134	44.45	114	24	21	1.706	414

Specification:

1. Flange only: AGL301, AGL301-X



AGA--

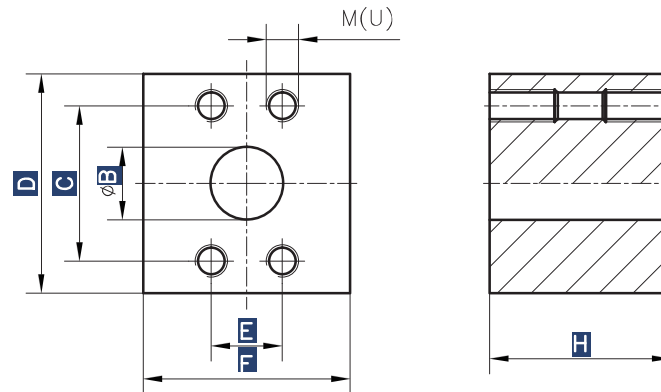
Material

- carbon steel Q345B
Blank oiled :AGA***
Cr+3 white zinked :AGA***-CFX
Ni-Zn zinked :AGA***-ZN
- AISI 321/304 :AGA***-X
- AISI 316L :AGA***-XX

Size (inch)	Type	dimension							Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E	F	H	K		
3000 psi										
1/2"	AGA301	13	38.10	56	17.48	46	24	9	0.324	345
3/4"	AGA302	19	47.63	65	22.23	50	24	11	0.378	345
1"	AGA303	25	52.37	71	26.19	60	24	11	0.471	345
11/4"	AGA304	32	58.72	79	30.18	68	24	12.5	0.577	276
11/2"	AGA305	38	69.85	93	35.71	78	24	13.5	0.799	207
2"	AGA306	51	77.77	102	42.88	90	24	13.5	0.931	207
21/2"	AGA307	63	88.90	114	50.80	105	25	13.5	1.208	160
3"	AGA308	73	106.38	134	61.93	124	23	17.5	1.561	138
31/2"	AGA309	89	120.65	152	69.85	136	25	17.5	1.998	35
4"	AGA310	99	130.18	162	77.77	146	25	17.5	2.119	35
6000 psi										
1/2"	AGA601	13	40.49	56	18.24	46	24	9	0.324	414
3/4"	AGA602	19	50.80	71	23.80	60	24	11	0.512	414
1"	AGA603	25	57.15	81	27.76	70	24	13	0.669	414
11/4"	AGA604	32	66.68	96	31.75	80	24	15	0.871	414
11/2"	AGA605	38	79.38	112	36.50	94	24	17	1.251	414
2"	AGA606	51	96.82	134	44.45	114	24	21	1.688	414

Specification:

- Flange only: AGA301, AGA301-X



GFG-- (Metric thread)

GFG--U (UNC thread)

Material

- carbon steel C45
Blank oiled :GFG***
Cr+3 white zinked :GFG***-CFX
Ni-Zn zinked :GFG***-ZN
- AISI 321/304 :GFG***-X
- AISI 316L :GFG***-XX

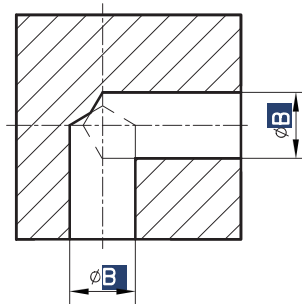
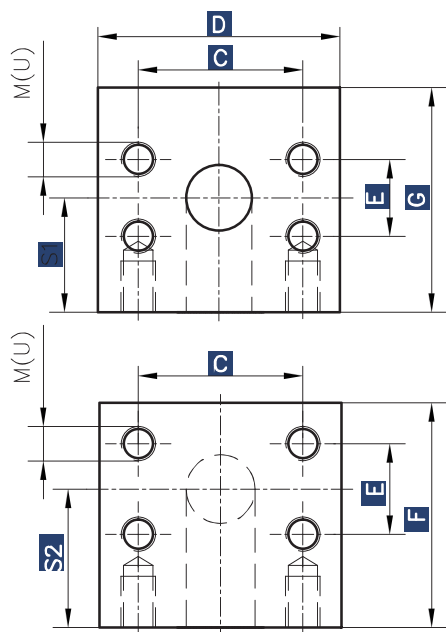
Size (inch)	Type	dimension								Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E	F	H	M	U		
3000 psi											
1/2"	GFG301	13	38.10	55	17.48	50	35	M8	5/16	0.679	345
3/4"	GFG302	19	47.63	65	22.23	50	40	M10	3/8	0.860	345
1"	GFG303	25	52.37	70	26.19	60	45	M10	3/8	1.230	345
1 1/4"	GFG304	32	58.72	80	30.18	70	50	M10	7/16	1.793	276
1 1/2"	GFG305	38	69.85	95	35.71	80	50	M12	1/2	2.410	207
2"	GFG306	51	77.77	105	42.88	95	50	M12	1/2	2.985	207
6000 psi											
1/2"	GFG601	13	40.49	55	18.24	50	35	M8	5/16	0.679	414
3/4"	GFG602	19	50.80	70	23.80	60	45	M10	3/8	1.303	414
1"	GFG603	25	57.15	80	27.76	70	50	M12	7/16	1.877	414
1 1/4"	GFG604	32	66.68	95	31.75	80	50	M14	1/2	2.490	414
1 1/2"	GFG605	38	79.38	115	36.50	95	60	M16	5/8	4.321	414
2"	GFG606	51	96.82	135	44.45	115	65	M20	3/4	6.388	414

Specification:

1. Flange only:

Metric thread : GFG301, GFG301-X

UNC thread : GFG301U, GFG301U-X



GWFG-- (Metric thread)
GWFG--U (UNC thread)

Material

- carbon steel C45
Blank oiled :GWFG***
Cr+3 white zinked :GWFG***-CFX
Ni-Zn zinked :GWFG***-ZN
- AISI 321/304 :GWFG***-X
- AISI 316L :GWFG***-XX

Size (inch)	Type	dimension										Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E	F	G	S1	S2	M	U		
3000 psi													
1/2"	GWFG301	13	38.10	55	17.48	55	50	25	35	M8	5/16	1.074	345
3/4"	GWFG302	19	47.63	65	22.23	60	60	30	40	M10	3/8	1.596	345
1"	GWFG303	24	52.37	72	26.19	65	65	33	40	M10	3/8	2.041	345
1 1/4"	GWFG304	32	58.72	82	30.18	82	80	39	38	M10	7/16	3.669	276
1 1/2"	GWFG305	38	69.85	98	35.71	92	92	51	59	M12	1/2	5.404	207
2"	GWFG306	51	77.77	102	42.88	85	87	51	48	M12	1/2	4.279	207
2 1/2"	GWFG307	62	88.90	110	50.80	110	120	60	65	M12	1/2	8.475	160
3"	GWFG308	73	106.38	135	61.93	150	135	67.5	90	M16	5/8	16.336	138
3 1/2"	GWFG309	89	120.65	150	69.85	145	145	72.5	75	M16	5/8	17.877	35
6000 psi													
1/2"	GWFG601	13	40.49	60	18.24	60	50	25	40	M8	5/16	1.295	414
3/4"	GWFG602	19	50.80	72	23.80	60	55	32	36	M10	3/8	1.628	414
1"	GWFG603	23	57.15	82	27.76	68	64	37	40	M12	7/16	2.904	414
1 1/4"	GWFG604	30	66.68	96	31.75	72	72	41	46	M14	1/2	3.255	414
1 1/2"	GWFG605	38	79.38	114	36.50	86	89	50	52	M16	5/8	5.687	414
2"	GWFG606	50	96.82	133	44.45	107	107	64	70	M20	3/4	9.418	414
2 1/2"	GWFG607	62	123.83	180	58.73	160	155	77.5	90	M24	---	30.309	414

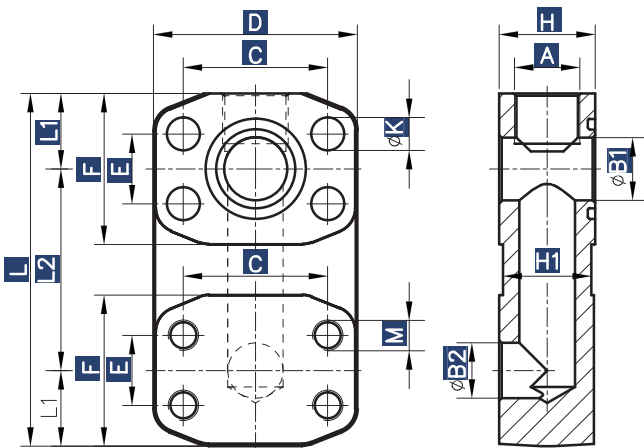
Specification:

1. Flange only:

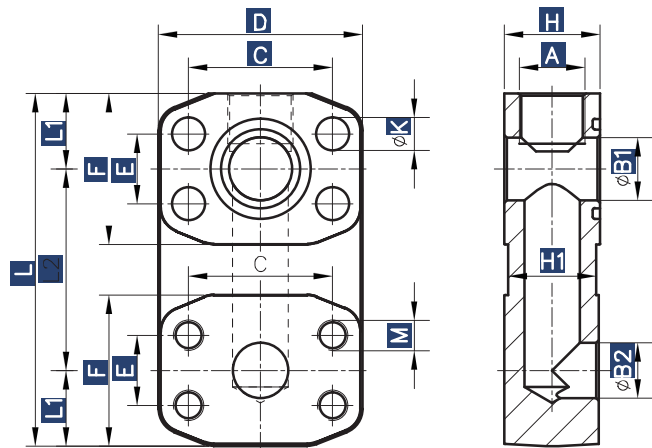
Metric thread : GWFG301, GWFG301-X

UNC thread : GWFG301U, GWFG301U-X

SAE DOUBLE TRANSITION FLANGE



AGS*A-***** (Metric thread)
AGS*A-***U** (UNC thread)



AGS*A-***B** (Metric thread)
AGS*A-***BU** (UNC thread)

Material

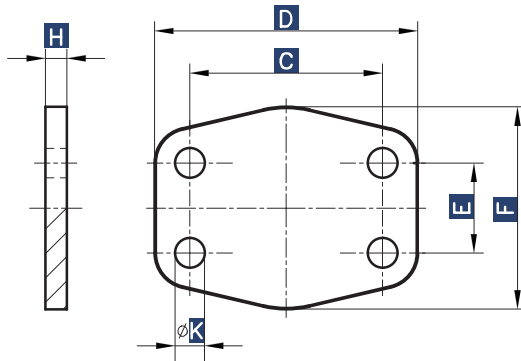
- carbon steel Q345B/C45
Blank oiled :AGS***A-***
Cr+3 white zinked:AGS***A-***-CFX
Ni-Zn zinked :AGS***A-***-ZN
- AISI 321/304 :AGS***A-***-X
- AISI 316L :AGS***A-***-XX

Thread M,G,UN could be supplied for the size A,
Part No. will be AGS***M-***、AGS***G-***、AGS***UN-***

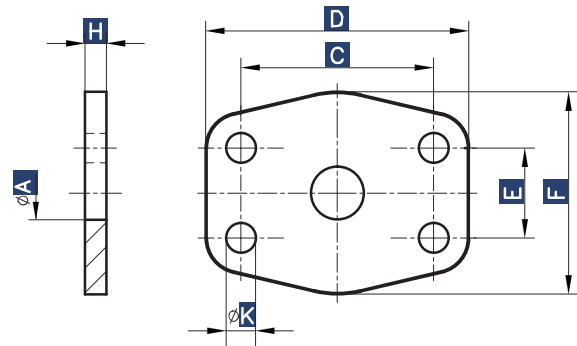
Size (inch)	Type	dimension														Accessories for use		Wt (kg)
		A	B1	B2	C	D	E	F	H	H1	L	L1	L2	K	M	bolt	o-ring	
3000 psi																		
1/2"	AGS301M-301 AGS301G-301 AGS301UN-301	M16X1.5 G1/4" 9/16"-18UNF	13	11	38.10	56	17.48	40	27	24	95	20	55	9	M8	M8x40	18.66x3.53	0.86
3/4"	AGS302M-302 AGS302G-302 AGS302UN-302	M20X1.5 G1/2" 3/4"-16UNF	19	17	47.63	65	22.23	44	33	30	104	22	60	11	M10	M10x50	25.00x3.53	1.26
1"	AGS303M-303 AGS303G-303 AGS303UN-303	M26X1.5 G3/4" 1 1/16"-12UN	25	22	52.37	70	26.19	50	38	35	120	25	70	11	M10	M10x55	32.92x3.53	1.75
1 1/4"	AGS304M-304 AGS304G-304 AGS304UN-304	M33X2 G1" 1 5/16"-12UN	32	29	58.72	79	30.18	56	45	42	136	28	80	11.5	M10	M10x60	37.70x3.53	2.54
1 1/2"	AGS305M-305 AGS305G-305 AGS305UN-305	M39X2 G1 1/4" 1 5/8"-12UN	38	35	69.85	93	35.71	64	53	50	154	32	90	13.5	M12	M12x70	47.22x3.53	3.95
6000 psi																		
1/2"	AGS601M-601 AGS601G-601 AGS601UN-601	M16X1.5 G1/4" 9/16"-18UNF	13	11	40.49	56	18.24	40	27	24	95	20	55	9	M8	M8x40	18.66x3.53	0.86
3/4"	AGS602M-602 AGS602G-602 AGS602UN-602	M20X1.5 G1/2" 3/4"-16UNF	19	17	50.80	71	23.80	50	33	30	120	25	70	11	M10	M10x50	25.00x3.53	1.67
1"	AGS603M-603 AGS603G-603 AGS603UN-603	M26X1.5 G3/4" 1 1/16"-12UN	25	22	57.15	81	27.76	60	38	35	140	30	80	13	M12	M12x55	32.92x3.53	2.44
1 1/4"	AGS604M-604 AGS604G-604 AGS604UN-604	M33X2 G1" 1 5/16"-12UN	32	29	66.68	95	31.75	68	45	42	158	34	90	15	M14	M14x65	37.70x3.53	3.68
1 1/2"	AGS605M-605 AGS605G-605 AGS605UN-605	M39X2 G1 1/4" 1 5/8"-12UN	38	35	79.38	112	36.50	80	53	50	185	40	105	17	M16	M16x75	47.22x3.53	5.96

Specification:

- Flange only: AGS301M-301, AGS301M-301B, AGS301M-301U (UNC)



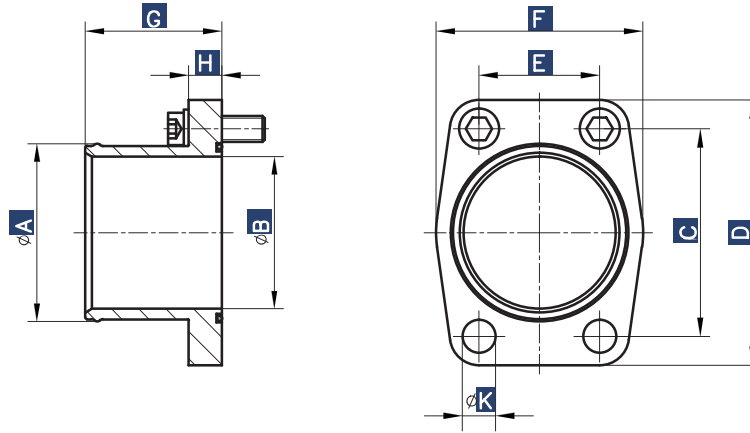
AP



ZP

Material
carbon steel
Blank oiled :AP/ZP***
Cr+3 white zinked:AP/ZP***-CFX
Ni-Zn zinked :AP/ZP***-ZN

Size (inch)	Type	dimension							Wt (kg)
		A	C	D	E	F	H	K	
3000 psi									
1/2"	AP301 / ZP301	13	38.10	54	17.48	46	3	9	0.042 / 0.039
3/4"	AP302 / ZP302	19	47.63	65	22.23	52	3	11	0.059 / 0.052
1"	AP303 / ZP303	25	52.37	70	26.19	58	3	11	0.072 / 0.061
1 1/4"	AP304 / ZP304	32	58.72	79	30.18	72	3	11	0.102 / 0.084
1 1/2"	AP305 / ZP305	38	69.85	94	35.71	82	3	13	0.140 / 0.113
2"	AP306 / ZP306	51	77.77	102	42.88	90	3	13	0.172 / 0.123
2 1/2"	AP307 / ZP307	63	88.90	114	50.80	108	3	13	0.232 / 0.158
3"	AP308 / ZP308	73	106.38	134	61.93	130	4	17	0.432 / 0.300
3 1/2"	AP309 / ZP309	89	120.65	152	69.85	139	4	17	0.537 / 0.341
4"	AP310 / ZP310	99	130.18	162	77.77	152	4	17	0.631 / 0.389
5"	AP311 / ZP311	120	152.40	184	92.08	180	4	17	0.852 / 0.497
6000 psi									
1/2"	AP601 / ZP601	13	40.49	56	18.24	47	4	9	0.060 / 0.056
3/4"	AP602 / ZP602	17	50.80	71	23.80	60	4	11	0.100 / 0.092
1"	AP603 / ZP603	24	57.15	81	27.76	69	4	13	0.130 / 0.116
1 1/4"	AP604 / ZP604	31	66.68	95	31.75	77	4	15	0.173 / 0.149
1 1/2"	AP605 / ZP605	38	79.38	113	36.50	95	4	17	0.252 / 0.217
2"	AP606 / ZP606	51	96.82	133	44.45	114	4	21	0.350 / 0.286



SHFL

Material

carbon steel C45

Blank oiled :SHFL***

Cr+3 white zinked:SHFL***-CFX

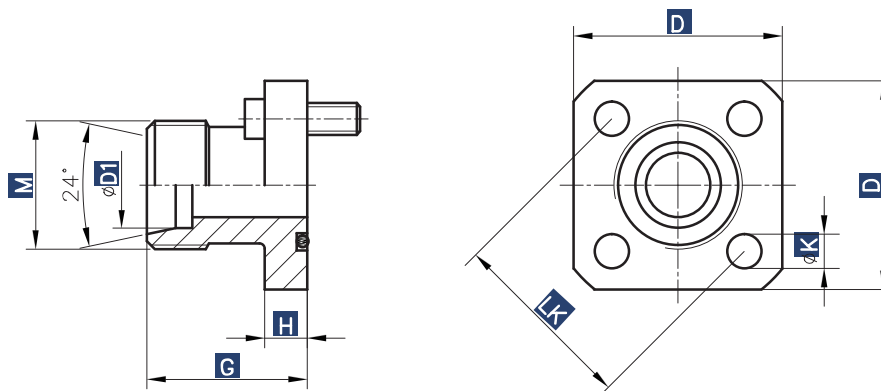
Ni-Zn zinked :SHFL***-ZN

Size (inch)	Type	dimension									Accessories for use		Wt (kg)	MAX.W.P (kg/cm ²)
		A	B	C	D	E	F	G	H	K	bolt	o-ring		
2"	SHFL306-62	62	48	77.77	103	42.88	70	70	16	13.5	M12x35	56.75x3.53	0.985	10
2 1/2"	SHFL307-62	62	50	88.90	114	50.80	84	70	19	13.5	M12x40	69.45x3.53	1.270	10
3"	SHFL308-91	91	78	106.38	136	61.93	106	70	17	17.0	M16x50	85.32x3.53	1.561	10
3 1/2"	SHFL309-116	116.5	90	120.65	151	69.85	139	90	18	17.0	M16x50	98.02x3.53	3.274	10

Specification:

1. Flange only: SHFL306-62
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

PUMP FLANGE CONNECTION WITH MALE METRIC THREAD & 24° INNER CONE



GF--LK--

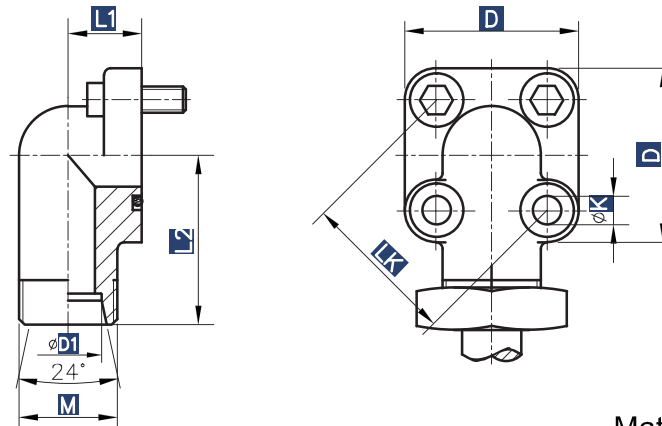
Material
carbon steel
Cr+3 white zinked: GF**LK-CFX
Ni-Zn zinked : GF**LK-ZN

Type	dimension							Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	ØD1	D	H	K	LK	G	M	bolt	o-ring		
GF30LK-L10	L10	36	8	6.5	30	30	M16x1.5	M6x22	17x2.5	0.090	345
GF30LK-L12	L12	36	8	6.5	30	30	M18x1.5	M6x22	17x2.5	0.091	345
GF35LK-L10	L10	39	8	6.5	35	30	M16x1.5	M6x22	20x2.5	0.105	345
GF35LK-L12	L12	39	8	6.5	35	30	M18x1.5	M6x22	20x2.5	0.106	345
GF35LK-L15	L15	39	8	6.5	35	30	M22x1.5	M6x22	20x2.5	0.109	276
GF35LK-L18	L18	39	8	6.5	35	30	M26x1.5	M6x22	20x2.5	0.123	276
GF35LK-S12	S12	39	8	6.5	35	30	M20x1.5	M6x22	20x2.5	0.115	345
GF35LK-S16	S16	39	8	6.5	35	30	M24x1.5	M6x22	20x2.5	0.120	345
GF35LK-S20	S20	39	8	6.5	35	56	M30x2	M6x22	20x2.5	0.168	345
GF40LK-L15	L15	42	8	6.5	40	35	M22x1.5	M6x22	26x2.5	0.133	100
GF40LK-L18	L18	42	8	6.5	40	35	M26x1.5	M6x22	26x2.5	0.139	100
GF40LK-L22	L22	42	8	6.5	40	35	M30x2	M6x22	26x2.5	0.136	100
GF40LK-L28	L28	42	8	6.5	40	42	M36x2	M6x22	26x2.5	0.166	100
GF40LK-L35	L35	42	8	6.5	40	62	M45x2	M6x22	26x2.5	0.303	100
GF55LK-L28	L28	55	12	8.5	55	40	M36x2	M8x25	33x2.5	0.323	100
GF55LK-L35	L35	55	12	8.5	55	50	M45x2	M8x25	33x2.5	0.368	100
GF55LK-L42	L42	55	12	8.5	55	55	M52x2	M8x25	33x2.5	0.422	100
GF55LK-S20	S20	55	12	8.5	55	40	M30x2	M8x25	33x2.5	0.319	276
GF55LK-S25	S25	55	12	8.5	55	50	M36x2	M8x25	33x2.5	0.414	276
GF55LK-S30	S30	55	12	8.5	55	50	M42x2	M8x25	33x2.5	0.404	276

Specification:

1. Flange only: GF35LK-L10
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

PUMP FLANGE 3-HOLES CONNECTION 90°WITH MALE METRIC THREAD & 24°INNER CONE



WF--LK--

Material

carbon steel

Cr+3 white zinked:WF**LK-CFX

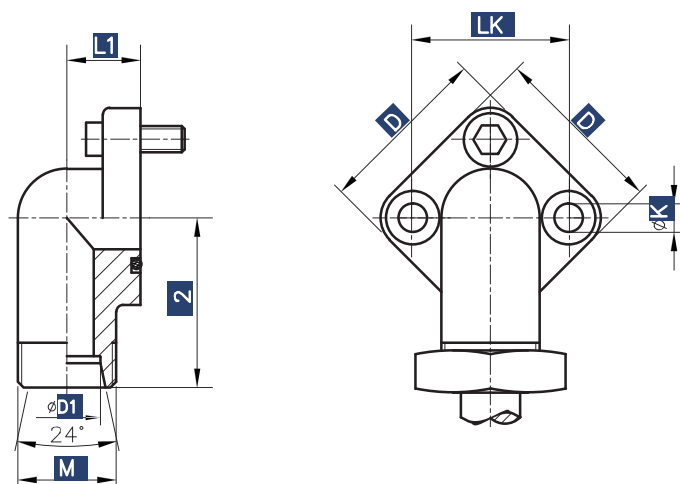
Ni-Zn zinked :WF**LK-ZN

Type	dimension							Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	ØD1	D	K	LK	L1	L2	M	bolt	o-ring		
WF35LK-L10	L10	39	6.5	35	16.5	38	M16x1.5	M6x22/M6x35	20x2.5	0.173	345
WF35LK-L12	L12	39	6.5	35	16.5	38	M18x1.5	M6x22/M6x35	20x2.5	0.168	345
WF35LK-L15	L15	39	6.5	35	16.5	38	M22x1.5	M6x22/M6x40	20x2.5	0.187	276
WF35LK-L18	L18	39	6.5	35	20.5	38	M26x1.5	M6x22/M6x40	20x2.5	0.198	276
WF35LK-S12	S12	39	6.5	35	16.5	38	M20x1.5	M6x22/M6x35	20x2.5	0.174	345
WF35LK-S16	S16	39	6.5	35	20	38	M24x1.5	M6x22/M6x40	20x2.5	0.185	345
WF35LK-S20	S20	39	6.5	35	25	45	M30x2	M6x22/M6x45	20x2.5	0.264	345
WF40LK-L15	L15	42	6.5	40	22.5	38	M22x1.5	M6x22/M6x45	26x2.5	0.258	100
WF40LK-L18	L18	42	6.5	40	22.5	38	M26x1.5	M6x22/M6x45	26x2.5	0.256	100
WF40LK-L22	L22	42	6.5	40	22.5	38	M30x2	M6x22	26x2.5	0.207	100
WF40LK-L28	L28	42	6.5	40	28	40	M36x2	M6x22/M6x50	26x2.5	0.286	100
WF40LK-L35	L35	42	6.5	40	34	41	M45x2	M6x22/M6x60	26x2.5	0.399	100
WF40LK-S20	S20	42	6.5	40	22.5	40	M30x2	M6x22/M6x45	26x2.5	0.257	276
WF55LK-L28	L28	58	8.5	55	30	49	M36x2	M8x25/M8x55	33x2.5	0.654	100
WF55LK-L35	L35	58	8.5	55	32	49	M45x2	M8x25/M8x60	33x2.5	0.526	100
WF55LK-L42	L42	58	8.5	55	40	49	M52x2	M8x25/M8x70	33x2.5	0.684	100
WF55LK-S20	S20	58	8.5	55	30	49	M30x2	M8x25/M8x55	33x2.5	0.665	276
WF55LK-S25	S25	58	8.5	55	30	49	M36x2	M8x25/M8x55	33x2.5	0.655	276
WF55LK-S30	S30	58	8.5	55	32	49	M42x2	M8x25/M8x55	33x2.5	0.536	276

Specification:

1. Flange only: WF35LK-L10
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

PUMP FLANGE 3-HOLES CONNECTION 90° WITH METRIC THREAD & 24° INNER CONE



3WF--LK--

Material

carbon steel

Cr+3 white zinked: 3WF**LK-CFX

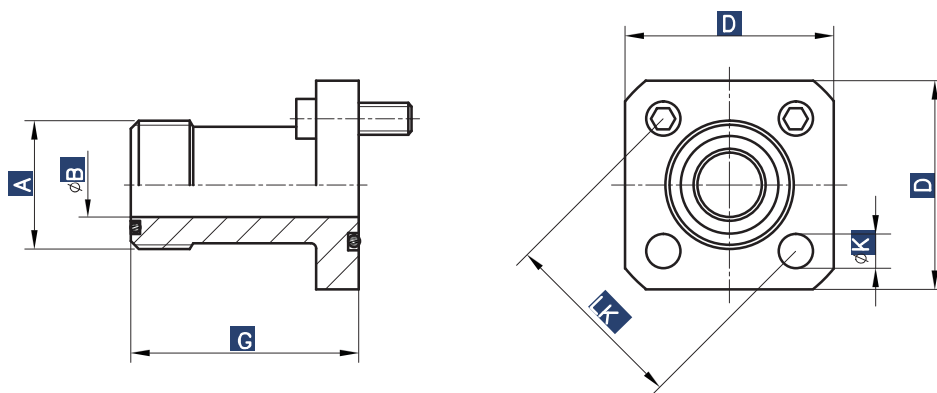
Ni-Zn zinked : 3WF**LK-ZN

Type	dimension							Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	ØD1	D	K	LK	L1	L2	M	bolt	o-ring		
3WF26LK-L12	L12	32	5.5	26	16	32	M18x1.5	M5x25	14x1.78	0.113	276
3WF30LK-L12	L12	38	6.5	30	19	37	M18x1.5	M6x25	16x2.5	0.183	276
3WF30LK-L15	L15	38	6.5	30	19	37	M22x1.5	M6x25	16x2.5	0.179	276
3WF40LK-L22	L22	48	8.5	40	25	43	M30x2	M8x30	24x2.5	0.363	160
3WF40LK-L28	L28	48	8.5	40	25	45	M36x2	M8x30	24x2.5	0.370	160

Specification:

1. Flange only: 3WF30LK-L12
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U
3. Flange with bolts, O-ring, cutting ring and nut: with additional suffix KM

PUMP FLANGE CONNECTION WITH MALE UN THREAD & ORFS



GF--LK--UN

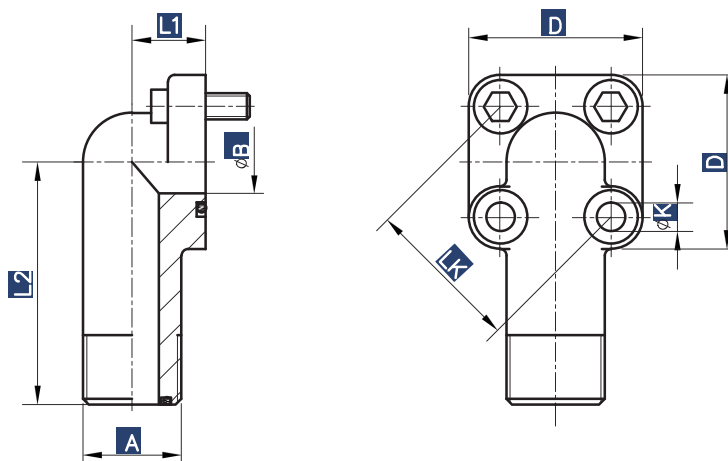
Material
carbon steel
Cr+3 white zinked:GF**LK-CFX
Ni-Zn zinked :GF**LK-ZN

Type	dimension									Wt (Kg)	MAX.W.P (Kg/cm ²)
	A	B	D	G	LK	K	bolt	o-ring	o-ring		
GF35LK-13 ³ / ₁₆ -16	13 ³ / ₁₆ "-16UN	9.5	40	50	35	6.5	4xM6x25	20x2.5	12.42x1.78	0.184	207
GF40LK-13 ³ / ₁₆ -12	13 ³ / ₁₆ "-12UN	15	45	65	40	6.5	4xM6x25	24x2.5	18.77x1.78	0.339	207
GF40LK-17 ¹ / ₁₆ -12	17 ¹ / ₁₆ "-12UN	20.6/16	45	65	40	6.5	4xM6x25	26x2.5	23.52x1.78	0.365	207

Specification:

- 1. Flange only: GF35LK-13³/₁₆-16
- 2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

PUMP FLANGE CONNECTION 90° WITH MALE UN THREAD & ORFS



WF--LK--UN

Material

carbon steel

Cr+3 white zinked:WF**LK-CFX

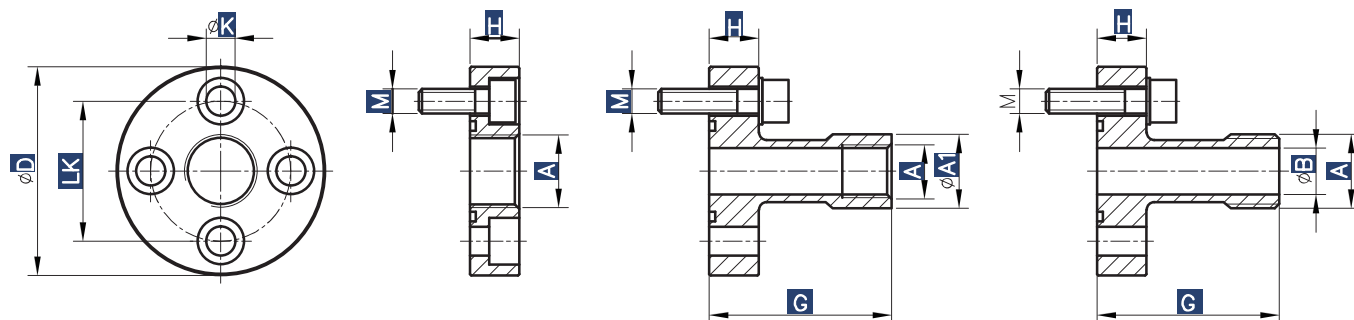
Ni-Zn zinked :WF**LK-ZN

Type	dimension							Accessories for use			Wt (Kg)	MAX.W.P (Kg/cm ²)
	A	B	D	L1	L2	LK	K	bolt	o-ring	o-ring		
WF30LK-1 $\frac{1}{16}$	1 $\frac{1}{16}$ "-16UN	6.5	30	15	30	30	5.5	M5x20/M5x30	15x2.5	9.25x1.78	0.122	207
WF30LK-1 $\frac{3}{16}$	1 $\frac{3}{16}$ "-16UN	9.5	30	15	30	30	6.5	M6x20/M6x30	15x2.5	12.42x1.78	0.113	207
WF35LK-1 $\frac{3}{16}$	1 $\frac{3}{16}$ "-16UN	9.5	40	20	55	35	6.5	M6x22/M6x35	18x2.5	12.42x1.78	0.262	207
WF40LK-1	1"-14UNS	15	45	24	60	40	6.5	M6x20/M6x35	24x2.5	15.6x1.78	0.419	207
WF40LK-1 $\frac{7}{16}$	1 $\frac{7}{16}$ "-12UN	20	42	28	40	40	6.5	M6x20/M6x50	26x2.5	23.52x1.78	0.336	207
WF55LK-1 $\frac{1}{16}$	1 $\frac{1}{16}$ "-12UN	26	58	32	49	55	8.5	M8x22/M8x50	32x2.5	29.87x1.78	0.591	207

Specification:

1. Flange only: WF30LK-1 $\frac{1}{16}$
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

PUMP FLANGE CONNECTION WITH MALE OR FEMALE BSPP THREAD



GDS--LK--G

GD--LK--G

GF--LK--G

Material

carbon steel

Cr+3 white zinked: GDS**LK-G**-CFX

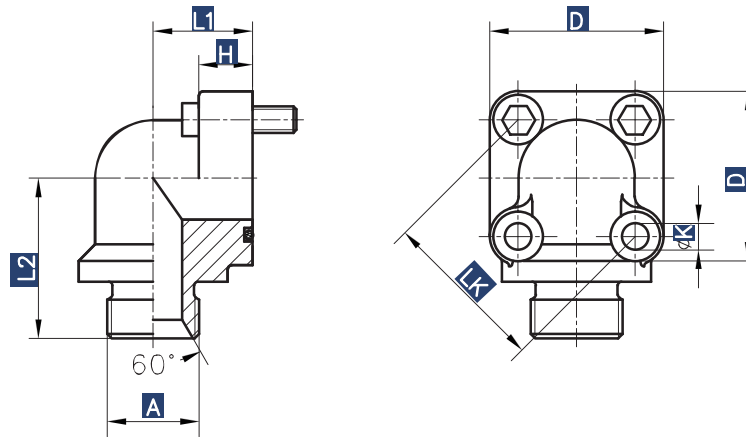
Ni-Zn zinked : GDS**LK-G**-ZN

Type	dimension								Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	A	A1	B	D	G	LK	H	K	bolt	o-ring		
GDS30LK-G3/8	G3/8"	-	-	45	-	30	11.5	6.5	4xM6x16	18.77x1.78	0.103	276
GD30LK-G3/8	G3/8"	21	-	45	55	30	10	6.5	4xM6x20	18.77x1.78	0.156	276
GF30LK-G1/2	G1/2"	-	14	45	55	30	10	6.5	4xM6x20	18.77x1.78	0.155	276
GDS40LK-G1/2	G1/2"	-	-	58	-	40	14	8.5	4xM8x20	25.12x1.78	0.210	276
GD40LK-G1/2	G1/2"	26.5	-	58	60	40	12	8.5	4xM8x25	25.12x1.78	0.286	276
GF40LK-G3/4	G3/4"	-	19	58	60	40	12	8.5	4xM8x25	25.12x1.78	0.280	276
GDS51LK-G3/4	G3/4"	-	-	76	-	51	18	10.5	4xM10x25	31.42x2.62	0.471	276
GD51LK-G3/4	G3/4"	33.5	-	76	72	51	16	10.5	4xM10x30	31.42x2.62	0.634	276
GF51LK-G1	G1"	-	24	76	72	51	16	10.5	4xM10x30	31.42x2.62	0.615	276
GDS56LK-G3/4	G3/4"	-	-	76	-	56	18	10.5	4xM10x25	31.42x2.62	0.471	276
GD56LK-G3/4	G3/4"	33.5	-	76	72	56	16	10.5	4xM10x30	31.42x2.62	0.634	276
GF56LK-G1	G1"	-	24	76	72	56	16	10.5	4xM10x30	31.42x2.62	0.615	276
GDS62LK-G1	G1"	-	-	88	-	62	20	10.5	4xM10x25	37.70x3.53	0.724	207
GDS62LK-G1-12	G1"	-	-	88	-	62	20	12.5	4xM12x25	37.70x3.53	0.672	207
GDS72.5LK-G11/4	G1 1/4"	-	-	98	-	72.5	22	12.5	4xM12x30	47.22x3.53	0.916	207

Specification:

1. Flange only: GDS30LK-G3/8

PUMP FLANGE CONNECTION 90°WITH MALE BSPP THREAD & 60° INNER CONE



WF--LK--G--

Material

carbon steel

Cr+3 white zinked:WF**LK-G**-CFX

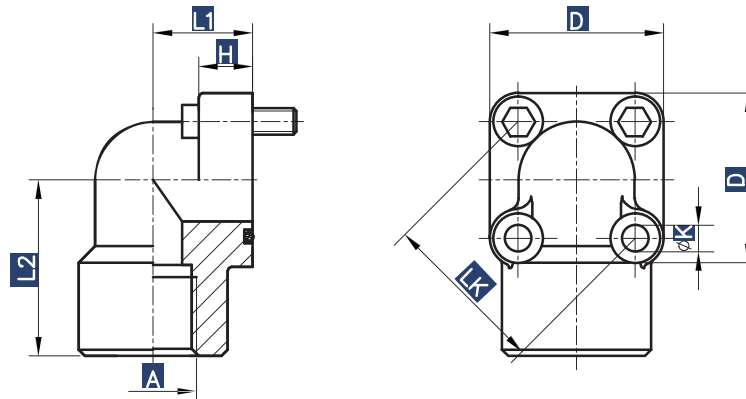
Ni-Zn zinked :WF**LK-G**-ZN

Type	dimension							Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	A	D	H	K	LK	L1	L2	bolt	o-ring		
WF35LK-G3/8	G3/8"	39	11.5	6.5	35	18	40	M6x25/M6x40	20x2.5	0.236	345
WF35LK-G1/2	G1/2"	39	11.5	6.5	35	18	40	M6x25/M6x40	20x2.5	0.225	345
WF35LK-G3/4	G3/4"	39	11.5	6.5	35	18	40	M6x25/M6x40	20x2.5	0.210	345
WF40LK-G3/8	G3/8"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.346	276
WF40LK-G1/2	G1/2"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.329	276
WF40LK-G3/4	G3/4"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.302	276
WF40LK-G1	G1"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.304	276
WF55LK-G1/2	G1/2"	58	13	8.5	55	40	59	M8x25/M8x60	33x2.5	1.028	276
WF55LK-G3/4	G3/4"	58	13	8.5	55	40	59	M8x25/M8x60	33x2.5	0.970	276
WF55LK-G1	G1"	58	13	8.5	55	40	59	M8x25/M8x60	33x2.5	0.904	276
WF55LK-G1 1/4	G1 1/4"	58	13	8.5	55	40	59	M8x25/M8x60	33x2.5	0.903	276

Specification:

1. Flange only: WF35LK-G3/8
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

PUMP FLANGE CONNECTION 90° WITH FEMALE BSPP THREAD



WDS--LK--G--

Material

carbon steel

Cr+3 white zinked: WDS**LK-G**-CFX

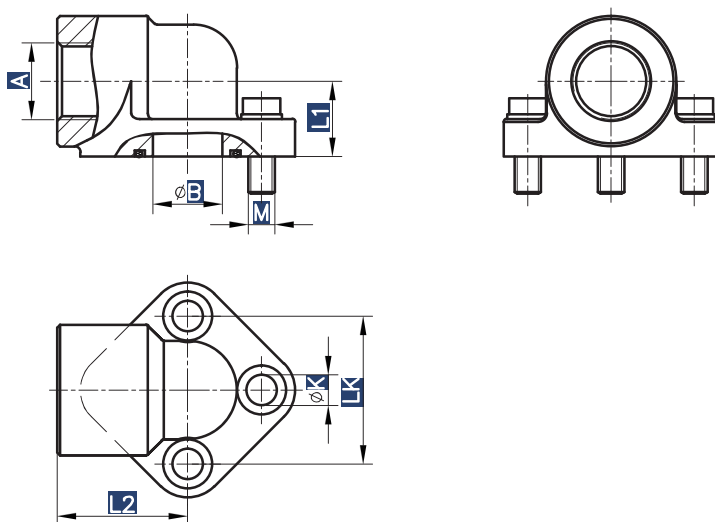
Ni-Zn zinked : WDS**LK-G**-ZN

Type	dimension							Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	A	D	H	K	LK	L1	L2	bolt	o-ring		
WDS30LK-G3/8	G3/8"	39	11.5	6.5	30	18	40	M6x25/M6x40	15.54x2.62	0.260	345
WDS30LK-G1/2	G1/2"	39	11.5	6.5	30	18	40	M6x25/M6x40	15.54x2.62	0.243	345
WDS35LK-G3/8	G3/8"	39	11.5	6.5	35	18	40	M6x25/M6x40	20x2.5	0.255	345
WDS35LK-G1/2	G1/2"	39	11.5	6.5	35	18	40	M6x25/M6x40	20x2.5	0.237	345
WDS40LK-G3/8	G3/8"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.390	276
WDS40LK-G1/2	G1/2"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.368	276
WDS40LK-G3/4	G3/4"	42	13	6.5	40	24	42.5	M6x25/M6x45	26x2.5	0.325	276
WDS40LK-G1	G1"	42	10	6.5	40	34	51	M6x22/M6x60	26x2.5	0.526	276
WDS55LK-G1/2	G1/2"	58	13	8.5	55	40	59	M8x25/M8x70	33x2.5	1.204	276
WDS55LK-G3/4	G3/4"	58	13	8.5	55	40	59	M8x25/M8x70	33x2.5	1.154	276
WDS55LK-G1	G1"	58	13	8.5	55	40	59	M8x25/M8x70	33x2.5	0.995	276
WDS55LK-G1 1/4	G1 1/4"	58	13	8.5	55	40	59	M8x25/M8x70	33x2.5	0.894	276

Specification:

1. Flange only: WDS35LK-G3/8
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

PUMP FLANGE 3-HOLES CONNECTION 90° WITH FEMALE BSPP THREAD



3WDS--LK--G--

Material

carbon steel

Cr+3 white zinked: 3WDS**LK-G**-CFX

Ni-Zn zinked : 3WDS**LK-G**-ZN

Type	dimension						Accessories for use		Wt (Kg)	MAX.W.P (Kg/cm ²)
	A	B	K	LK	L1	L2	bolt	o-ring		
3WDS26LK-G3/8	G3/8"	10	5.5	26	17	24	M5x20	14x1.78	0.186	345
3WDS26LK-G1/2	G1/2"	10	5.5	26	17	24	M5x20	14x1.78	0.174	345
3WDS30LK-G3/8	G3/8"	12	6.5	30	17	24	M6x20	15.54x2.62	0.181	345
3WDS30LK-G1/2	G1/2"	12	6.5	30	17	24	M6x20	15.54x2.62	0.168	345
3WDS40LK-G1/2	G1/2"	19	8.5	40	21	36	M8x25	23.47x2.62	0.397	345
3WDS40LK-G3/4	G3/4"	19	8.5	40	21	36	M8x25	23.47x2.62	0.364	345
3WDS51LK-G3/4	G3/4"	26	10.5	51	26	45	M10x30	31.42x2.62	0.630	345
3WDS51LK-G1	G1"	26	10.5	51	26	45	M10x30	31.42x2.62	0.573	345
3WDS56LK-G3/4	G3/4"	26	10.5	56	26	45	M10x30	31.42x2.62	0.631	345
3WDS56LK-G1	G1"	26	10.5	56	26	45	M10x30	31.42x2.62	0.573	345

Specification:

1. Flange only: 3WDS30LK-G3/8
2. Flange with bolts and O-ring: for Metric bolts with the suffix M and UNC bolts with the suffix U

ISO 6164

Material specification:

Material used for ISO6164 square flanges is indicated with suffix as follow:

Flange and welding adapter are all carbon steel: without suffix.

Carbon steel flange and stainless steel AISI 304/321 welding adapter: with the suffix-ST/X

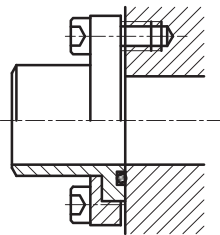
Carbon steel flange and stainless steel AISI 316L welding adapter: with the suffix-ST/XX

Flange and welding adapter are all stainless steel:

AISI 304/321 with the suffix -X, AISI 316L with the suffix -XX

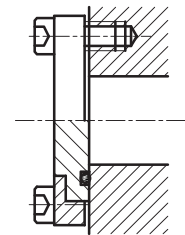
FA

Square flange: 1 pc
Welded tube with O-groove: 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: FA50-0-60.3x2.9



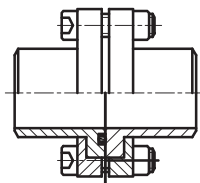
FAG

Square flange: 1 pc
Blind cap with O-groove: 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: FAG50-0



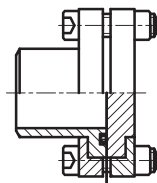
FK

Square flange: 2 pcs
Mated welded tubes: 1 pair
O-ring: 1 pc
Bolt set: 1 set
Example: FK50-0-60.3x2.9



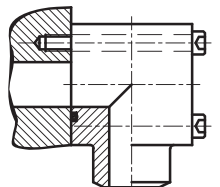
FKG

Square flange: 2 pcs
Welded tube with O-groove: 1 pc
Plain blind cap: 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: FKG50-0-60.3x2.9



WFA

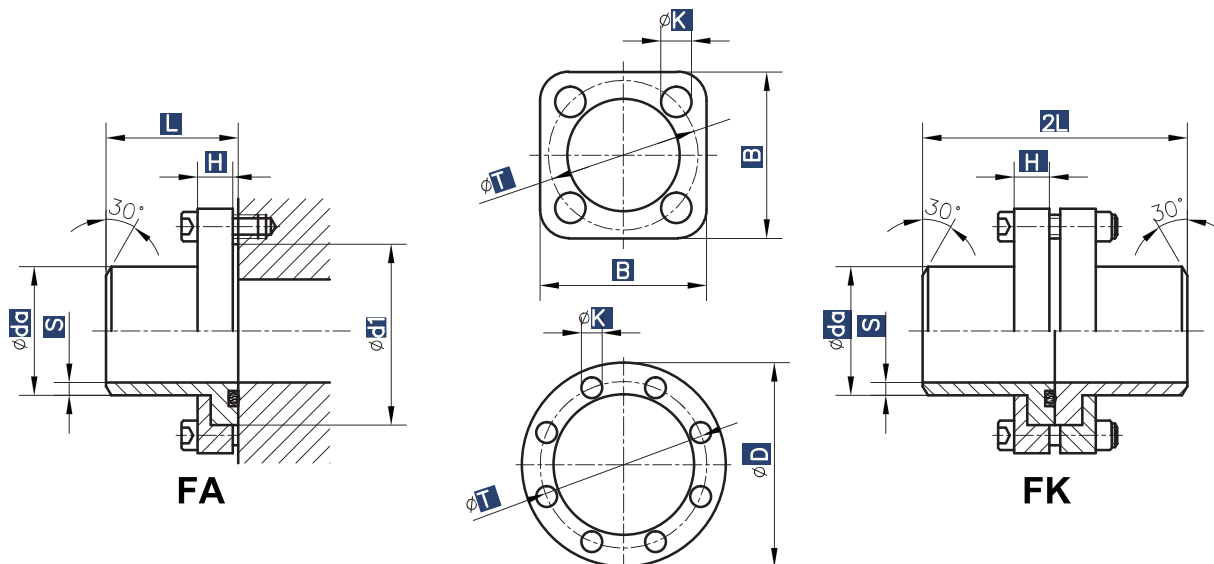
90° elbow flange: 1 pc
O-ring: 1 pc
Bolt set: 1 set
Example: WFA50-3-76.1x10



Special Note

To ensure proper installation and performance,
do not mix or assemble our flanges and welded tubes with products from other manufacturers.

ISO 6164 SQUARE FLANGE (PN10-64/SERIES O)



da x s indicates the outer diameter x wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Max.w.p: 64 kg/cm²

Type	dimension								Accessories for use		Wt (kg)
	daxs	B	D	H	T	d1	K	L	bolt	o-ring	
FA 32-0 FK	42.4x2.6	80	-	24	72	55	13	64	M12X45 M12X70	37.70x3.53	1.4 2.65
FA 40-0 FK	48.3x3	90	-	29	80	60	17	68	M16X55 M16X80	47.22x3.53	2.0 4.0
FA 50-0 FK	42x3, 60.3x2.9 60.3x4.5	100	-	38	98	76	17	80	M16X65 M16X100	53.34x5.33 58.00x3.55	3.1 6.0
FA 65-0 FK	76.1x2.9, 76.1X3.6	120	-	47	118	92	21	98	M20X75 M20X120	75.79x3.53	5.5 10.6
FA 80-0 FK	89x4, 89x8	150	-	48	145	110	25	109	M24X80 M24X130	89.60x5.7	9.5 18.0
FA 90-0 FK	101.6x7.1	180	-	58	175	135	32	135	M30X90 M30X150	99.60x5.7	17 33
FA 100-0 FK	114.3x4, 114.3x6 114.3x7.1	180	-	58	175	135	32	135	M30X90 M30X150	109.60x5.7	17 33
FA 125-0 FK	139.7x10	-	245	69	200	168	25	150	M24X100 M24X170	129.6x5.7	29 57
FA 150-0 FK	168.3x6, 168.3x10	-	300	79	245	205	32	186	M30X120 M30X200	164.47x6.99	48.5 95.5

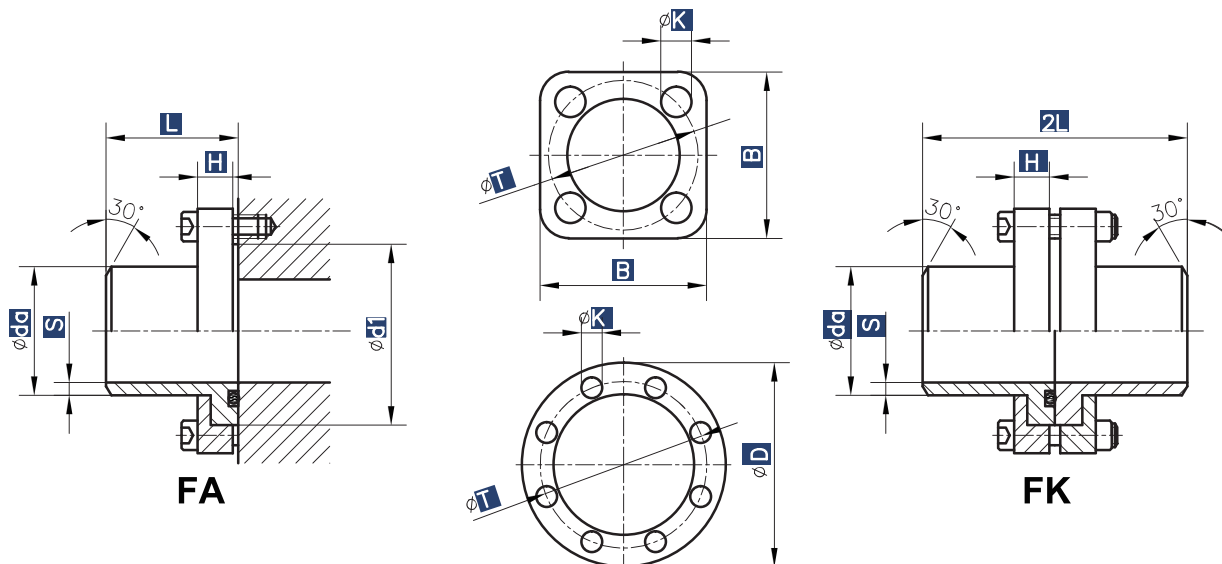
Specification:

All carbon steel: FA50-0-60.3x2.9, FK50-0-60.3x2.9

Carbon steel flange and stainless steel welding adapter (AISI 321/304):

FA50-0-60.3x2 9-ST/X FKG50-0-60 3x2 9-ST/X

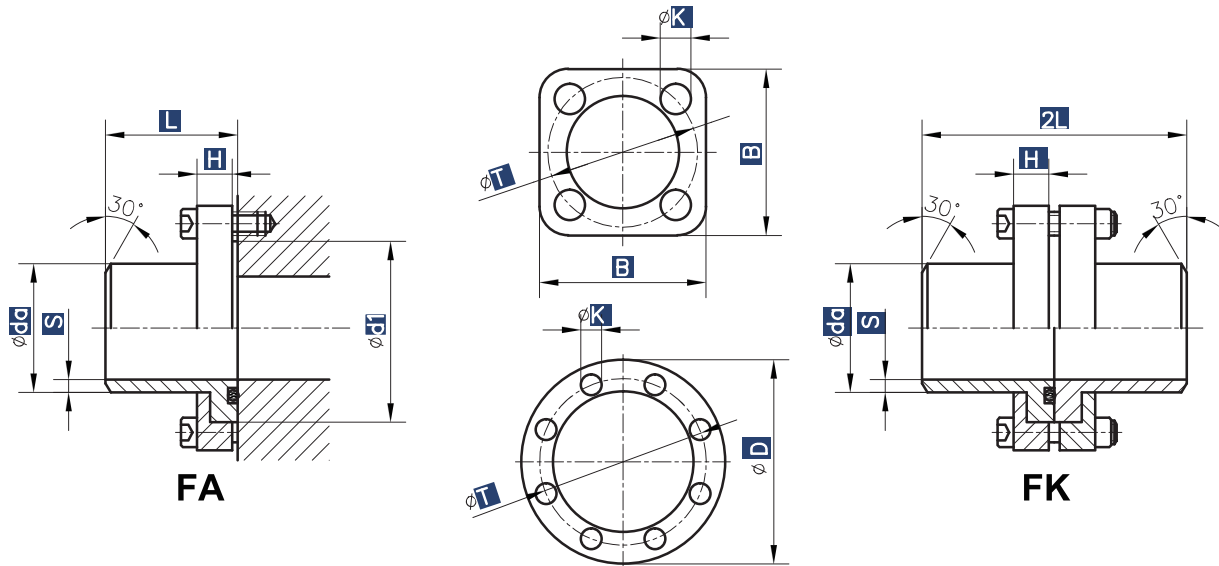
All stainless steel (AISI 321/304): FA50-0-60.3x2.9-X



da x s indicates the outer diameter x wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Max.w.p: 160 kg/cm²

Type	dimension								Accessories for use		Wt (kg)
	daxs	B	D	H	T	d1	K	L	bolt	o-ring	
FA 12-2 FK 12-2	16X2.6	50	-	19	44	28	11	43	M10X35 M10X55	15.54x2.62	0.43 0.83
FA 16-2 FK 16-2	20x2.5	60	-	19	54	38	11	50	M10X35 M10X55	23.47x2.62	0.62 1.20
FA 20-2 FK 20-2	25x3	60	-	19	54	38	11	50	M10X35 M10X55	23.47x2.62	0.62 1.20
FA 25-2 FK 25-2	28x4, 34x3.2	70	-	19	64	46	13	56	M12X40 M12X55	29.82x2.62	0.90 1.75
FA 32-2 FK 32-2	38x5	80	-	24	72	55	13	64	M12X45 M12X70	37.70x3.53	1.4 2.65
FA 40-2 FK 40-2	48.3x4, 48.3x6.3	90	-	29	80	60	17	68	M16X55 M16X80	42.50x3.55	2.1 4.0
FA 50-2 FK 50-2	48.3x5, 48.3x6 60.3x5, 62x6	100	-	38	98	76	17	80	M16X65 M16X100	53.34x5.33	3.1 6.0
FA 65-2 FK 65-2	70x8.8, 76.1x7.1	120	-	47	118	92	21	98	M20X75 M20X120	69.22x5.33	5.5 10.6
FA 80-2 FK 80-2	101.6x10	180	-	58	175	135	32	135	M30X90 M30X150	89.60x5.7	17 33
FA 100-2 FK 100-2	114.3x10	180	-	58	175	135	32	135	M30X90 M30X150	104.60x5.7	17 33
FA 125-2 FK 125-2	139.7x12.5	-	245	69	200	168	25	150	M24X100 M24X170	129.6x5.7	29 57
FA 150-2 FK 150-2	177.8x17.5	-	300	79	245	205	32	186	M30X120 M30X200	164.47x6.99	48.5 95.5

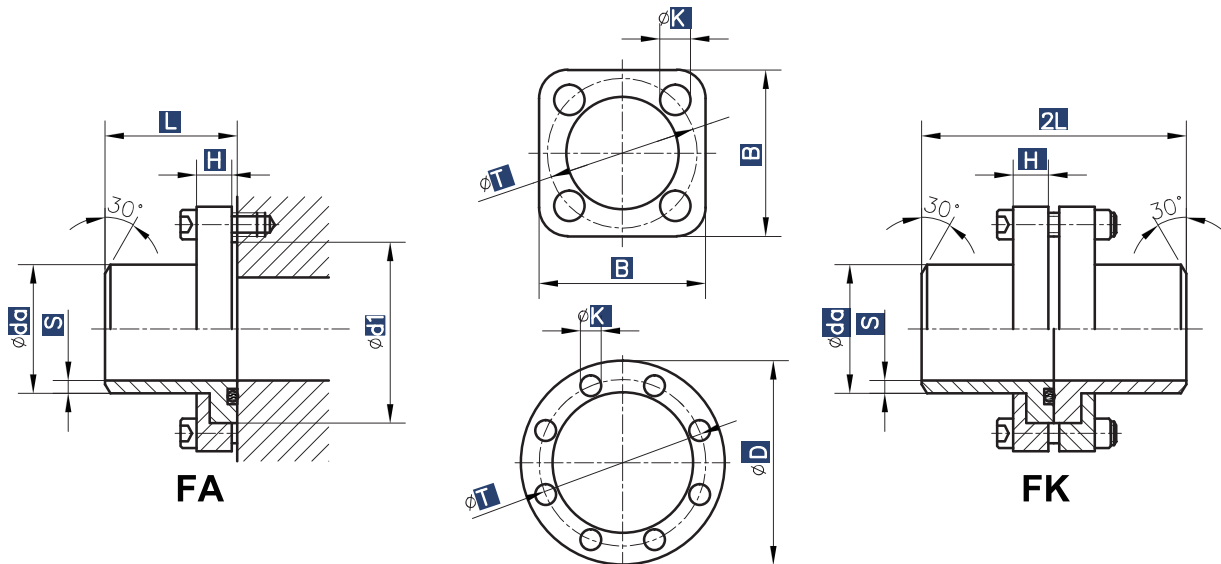


indicates the outer diameter × wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Max.w.p: 250 kg/cm²

Type	dimension								Accessories for use		Wt (kg)
	daxs	B	D	H	T	d1	K	L	bolt	o-ring	
FA 10-3 FK	16x3	50	-	19	44	28	11	43	M10X35 M10X55	15.54x2.62	0.43 0.83
FA 12-3 FK	20x3	60	-	19	54	38	11	50	M10X35 M10X55	23.47x2.62	0.62 1.20
FA 16-3 FK	22x4	60	-	19	54	38	11	50	M10X35 M10X55	23.47x2.62	0.62 1.20
FA 20-3 FK	26.9x3.6, 27x4 30x5, 34x4.5	70	-	19	64	46	13	56	M12X40 M12X55	29.82x2.62	0.90 1.75
FA 25-3 FK	33.7x4.5	80	-	24	72	55	13	64	M12X45 M12X70	37.70x3.53	1.4 2.65
FA 32-3 FK	42.4x5.6	90	-	29	80	60	17	68	M16X55 M16X80	42.50x3.55	2.1 4.0
FA 40-3 FK	60.3x8	100	-	38	98	76	17	80	M16X65 M16X100	53.34x5.33	3.1 6.0
FA 50-3 FK	76.1x10	120	-	47	118	92	21	98	M20X75 M20X120	62.87x5.33	5.5 10.6
FA 65-3 FK	76.1x10, 89x11	150	-	48	145	110	25	109	M24X80 M24X130	79.60x5.7	9.5 18
FA 80-3 FK	101.6x12.5 114.3x14.2	180	-	58	175	135	32	135	M30X90 M30X150	89.60x5.7 104.60x5.7	17 33
FA 100-3 FK	133.7x20, 139.7x20	-	245	69	200	168	25	150	M24X100 M24X170	114.60x5.7	29 57
FA 125-3 FK	168.3x20, 177.8x20	-	300	79	245	205	32	186	M30X120 M30X200	148.59x6.99	48.5 95.5
FA 150-3 FK	193.7x25	-	355	90	290	245	38	200	M36X140 M36X220	170.00x7	58 112

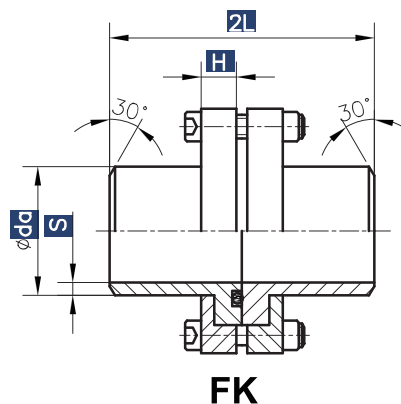
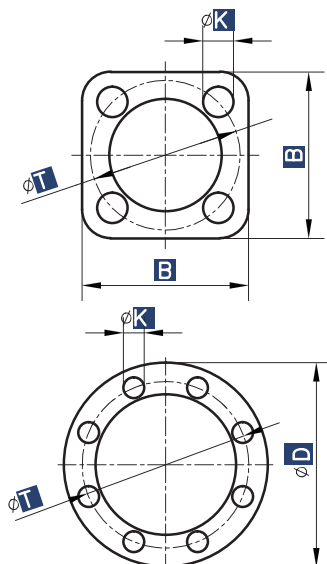
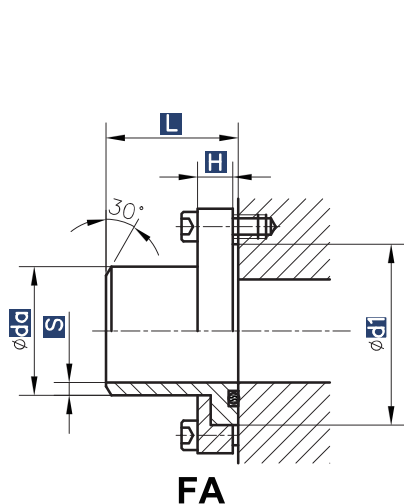
ISO 6164 SQUARE FLANGE(PN320/SERIES 4)



Max.w.p: 320 kg/cm²

da x s indicates the outer diameter x wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

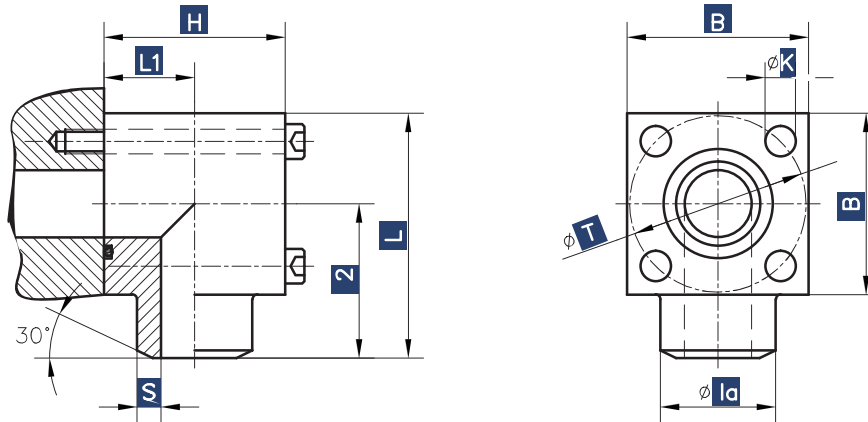
Type	dimension								Accessories for use		Wt (kg)
	daxs	B	D	H	T	d1	K	L	bolt	o-ring	
FA FK 10-4	17.2x3.6	50	-	19	44	28	11	43	M10X35 M10X55	15.54x2.62	0.43 0.83
FA FK 12-4	20x4, 22x4	60	-	19	54	38	11	50	M10X35 M10X55	23.47x2.62	0.62 1.20
FA FK 16-4	26.9x4.5	60	-	19	54	38	11	50	M10X35 M10X55	23.47x2.62	0.62 1.20
FA FK 20-4	33.7x5.6	70	-	19	64	46	13	56	M12X40 M12X55	29.82x2.62	0.90 1.75
FA FK 25-4	42.4x8	80	-	24	72	55	13	64	M12X45 M12X70	37.70x3.53	1.4 2.65
FA FK 32-4	48.3x8	90	-	29	80	60	17	68	M16X55 M16X80	42.50x3.55	2.1 4.0
FA FK 40-4	60.3x10	100	-	38	98	76	17	80	M16X65 M16X100	53.34x5.33	3.1 6.0
FA FK 50-4	76.1x12.5	120	-	47	118	92	21	98	M20X75 M20X120	62.87x5.33	5.5 10.6
FA FK 65-4	76.1x12.5, 89x14.2	150	-	48	145	110	25	109	M24X80 M24X130	79.60x5.7	9.5 18
FA FK 80-4	114.3x17.5, 114.3x20	180	-	58	175	135	32	135	M30X90 M30X150	89.60x5.7	17 33
FA FK 100-4	139.7x22.2, 152.4x28	-	245	69	200	168	25	150	M24X100 M24X170	114.60x5.7	29 57
FA FK 125-4	177.8x30	-	300	79	245	205	32	186	M30X120 M30X200	148.59x6.99	48.5 95.5
FA FK 150-4	193.7x32 219.1x38	-	355	90	290	245	38	200	M36X140 M36X220	170.00x7 164.47x6.99	58 112



Max.w.p: 400 kg/cm²

da x s indicates the outer diameter × wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Type	dimension								Accessories for use		Wt (kg)
	daxs	B	D	H	T	d1	K	L	bolt	o-ring	
FA FK 32-5	48.3x8.8	100	-	38	98	76	17	80	M16X65 M16X100	53.34x5.33	3.1 6.0
FA FK 40-5	60.3x11	120	-	47	118	92	21	98	M20X75 M20X120	62.87x5.33	5.5 10.6
FA FK 50-5	76.1x14.2	150	-	48	145	110	25	109	M24X80 M24X130	79.60x5.7	9.5 18
FA FK 65-5	101.6x20	180	-	58	175	135	32	135	M30X90 M30X150	89.60x5.7	17 33
FA FK 80-5	133.7x25	-	245	69	200	168	25	150	M24X100 M24X170	114.60x5.7	29 57
FA FK 100-5	152.4x30	-	300	79	245	205	32	186	M30X120 M30X200	148.59x6.99	48.5 95.5
FA FK 125-5	219.1x45	-	390	88	315	273	38	195	M36X140 M36X220	180.00x7	68 128



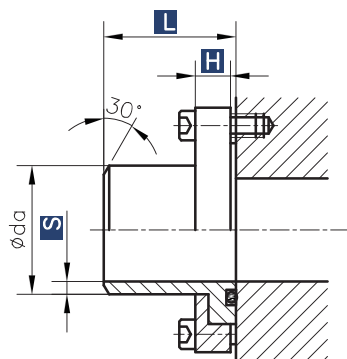
WFA

indicates the outer diameter × wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
da x s The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

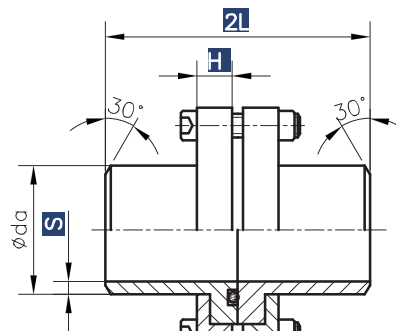
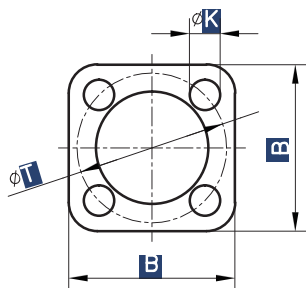
Type	dimension								Accessories for use		Wt (kg)
	daxs	H	L1	L2	L	B	T	K	bolt	o-ring	
WFA 10 -3 -4	16x3 17.2x4	29	17	55	80	50	44	11	M10X45	15.54x2.62	0.471 0.483
WFA 12 -3 -4	20x3 20X4	32	18	65	95	60	54	11	M10X50	23.47x2.62	0.754 0.773
WFA 16 -3 -4	21.3x3 26.9x4.5	41	23	65	95	60	54	11	M10X60	23.47x2.62	0.962 0.986
WFA 20 -3 -4	26.9X4 33.7X5.5	47	26	75	110	70	64	13	M12X65	32.92x3.53	1.501 1.534
WFA 25 -3 -4	33.7X4.5 42.4X7.1	56	30	90	130	80	72	13	M12X75	37.70x3.53	2.478 2.495
WFA 32 -3 -4	42.4x5.5 48.3x8	64	35	95	140	90	80	17	M16X85	42.50x3.55	3.317 3.443
WFA 40 -3 -4	60.3x8 60.3x10	76	40	105	155	100	98	17	M16X100	53.34x5.33	4.869 5.066
WFA 50 -3 -4	76.1x10 76.1x12.5	100	53	115	175	120	118	21	M20X130	62.87x5.33	9.064 9.377
WFA 65 -3 -4	88.9x11 88.9x14.2	120	64	125	200	150	145	25	M24X150	79.60x5.7	16.824 17.430
WFA 80 -3 -4	101.6x12.5 114.3x17.5	140	73	130	220	180	175	32	M30X180	89.60x5.7	27.359 27.566

Specification:

WFA parts supplied with bolts and O-rings



CASF



CBSF

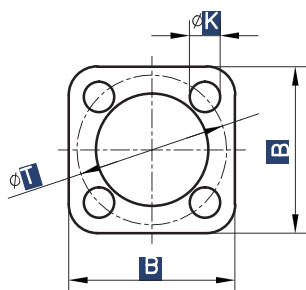
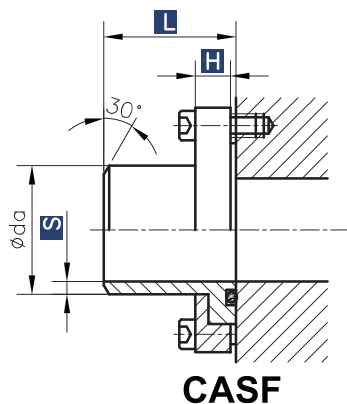
Max.w.p: 250 kg/cm²

da x s indicates the outer diameter x wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Size (inch)	Type	dimension						Accessories for use		Wt (kg)
		daxs	B	H	T	K	L	bolt	o-ring	
3/8"	CASF 301/3/8 CBSF 301/3/8	18x3 16x3	40	14	35	6.5	30	M6X25 M6X40	15.54x2.62	0.22 0.42
1/2"	CASF 301 CBSF 301	22x3.5 21.3x3.6	45	15	42	8.5	30	M8X30 M8X45	18.66x3.53	0.30 0.55
3/4"	CASF 302 CBSF 302	28x4 26.9x4	50	16	50	8.5	35	M8X30 M8X45	25.00x3.53	0.40 0.70
1"	CASF 303 CBSF 303	35x5, 34x4 33.7x3.6	65	18	62	11	40	M10X35 M10X50	32.92x3.53	0.70 1.30
1 1/4"	CASF 304 CBSF 304	43x5.5 42.4x5	75	22	73	13	45	M12X40 M12X60	37.70x3.53	1.10 2.00
1 1/2"	CASF 305 CBSF 305	50x6 48.3x5	85	25	84.85	15	50	M14X45 M14X70	47.22x3.53	1.50 2.80
2"	CASF 306 CBSF 306	62x7.5 60.3x8	100	30	98	17	60	M16X55 M16X80	56.75x3.53	2.50 4.70
2 1/2"	CASF 307 CBSF 307	76x9 76x7.1	120	35	118	21	70	M20X70 M20X100	69.45x3.53	4.20 8.0
3"	CASF 308 CBSF 308	90x10 89x10	140	40	145	21	80	M20X80 M20X110	85.32x3.53	6.20 11.80
3 1/2"	CASF 309 CBSF 309	102x11	140	52	145	21	90	M20X90 M20X130	88.27x5.33	7.50 14.20
4"	CASF 310 CBSF 310	114x12	160	60	160	25	105	M24X100 M24X150	97.79x5.33	11.50 21.60

CDSF/CESF: Replace welding adapter with plug in CBSF/CASF (parts with groove)

CETOP SQUARE FLANGE 6000 PSI

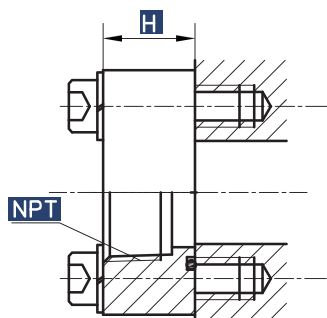


$d \times s$ indicates the outer diameter $\times$ wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

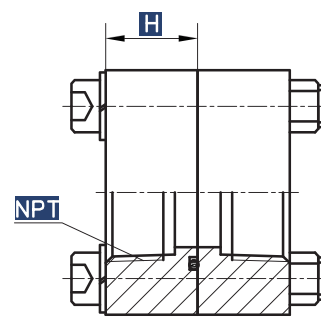
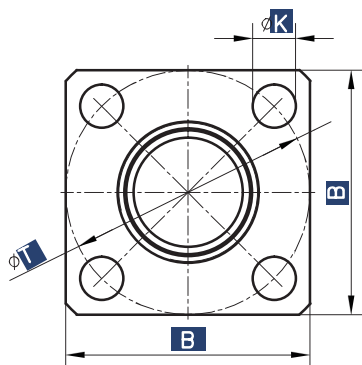
Max.w.p: 400 kg/cm²

Size (inch)	Type	dimension						Accessories for use		Wt (kg)
		daxs	B	H	T	K	L	bolt	o-ring	
3/8"	CASF 601/3/8 CBSF 601/3/8	18x3.5	40	16	35	6.5	35	M6X25 M6X45	17.00x2.50	0.25 0.48
1/2"	CASF 601 CBSF 601	21.3x4.5 22x4	45	17	42	8.5	40	M8X30 M8X50	18.66x3.53	0.35 0.65
3/4"	CASF 602 CBSF 602	26.9x5.6 28x5	50	20	50	8.5	45	M8X35 M8X55	25.00x3.53	0.50 0.90
1"	CASF 603 CBSF 603	33.7x5.6 34x5, 35x6.5	65	24	62	11	50	M10X40 M10X65	32.92x3.53	0.90 1.75
1 1/4"	CASF 604 CBSF 604	42.4x8 44x7.5	75	28	73	13	55	M12X45 M12X75	37.70x3.53	1.40 2.65
1 1/2"	CASF 605 CBSF 605	48.3x8.8 51x8	85	32	84.85	15	60	M14X55 M14X80	47.22x3.53	2.0 3.80
2"	CASF 606 CBSF 606	60.3x10 61x9	100	40	98	17	70	M16X65 M16X100	56.75x3.53	3.30 6.40
2 1/2"	CASF 607 CBSF 607	76.1x12.5 80x13.5	120	45	118	21	80	M20X80 M20X120	69.22x5.33	5.50 10.50
3"	CASF 608 CBSF 608	89x14.2 90x16	140	52	145	21	90	M20X90 M20X130	75.57x5.33	8.60 16.40
3 1/2"	CASF 609 CBSF 609	102x19.5	140	52	145	21	90	M20X90 M20X130	88.27x5.33	8.80 16.80
4"	CASF 610 CBSF 610	114x20	160	60	160	25	105	M24X100 M24X150	97.79x5.33	13.0 25.0

CDSF/CESF: Replace welding adapter with plug in CBSF/CASF (parts with groove)



CASF-NPT

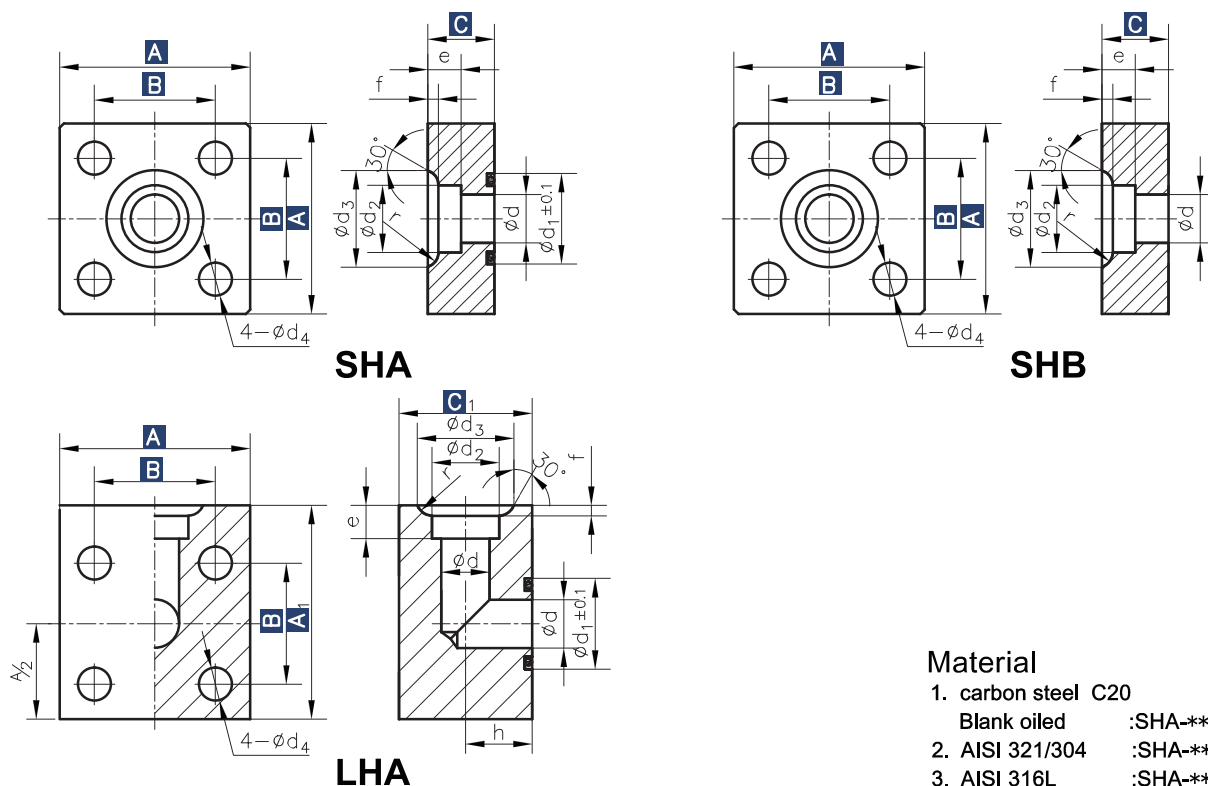


CBSF-NPT

Max.w.p: 400 kg/cm²

Size (inch)	Type	dimension					Accessories for use		Wt (kg)
		NPT	B	H	T	K	bolt	o-ring	
3/8"	CASF 601-NPT3/8 CBSF 601-NPT3/8	NPT3/8"	40	20	35	6.5	M6X30 M6X50	17.00x2.50	0.20 0.40
1/2"	CASF 601-NPT1/2 CBSF 601-NPT1/2	NPT1/2"	45	22	42	8.5	M8X35 M8X55	18.66x3.53	0.26 0.52
3/4"	CASF 602-NPT3/4 CBSF 602-NPT3/4	NPT3/4"	50	22	50	8.5	M8X35 M8X55	25.00x3.53	0.32 0.64
1"	CASF 603-NPT1 CBSF 603-NPT1	NPT1"	65	24	62	11	M10X40 M10X65	32.92x3.53	0.59 1.20
1 1/4"	CASF 604-NPT1 1/4 CBSF 604-NPT1 1/4	NPT1 1/4"	75	28	73	13	M12X45 M12X70	37.70x3.53	0.87 1.76
1 1/2"	CASF 605-NPT1 1/2 CBSF 605-NPT1 1/2	NPT1 1/2"	85	32	84.85	15	M14X55 M14X80	47.22x3.53	1.26 2.54
2"	CASF 606-NPT2 CBSF 606-NPT2	NPT2"	100	40	98	17	M16X65 M16X100	56.75x3.53	2.09 4.20
2 1/2"	CASF 607-NPT2 1/2 CBSF 607-NPT2 1/2	NPT2 1/2"	120	45	118	21	M20X80 M20X120	69.22x5.33	3.72 7.46
3"	CASF 608-NPT3 CBSF 608-NPT3	NPT3"	140	52	145	21	M20X90 M20X130	75.57x5.33	5.40 10.82
4"	CASF 610-NPT4 CBSF 610-NPT4	NPT4"	160	60	160	25	M24X100 M24X150	97.79x5.33	7.11 14.24

JIS B 2291 SOCKET WELDING SQUARE FLANGE



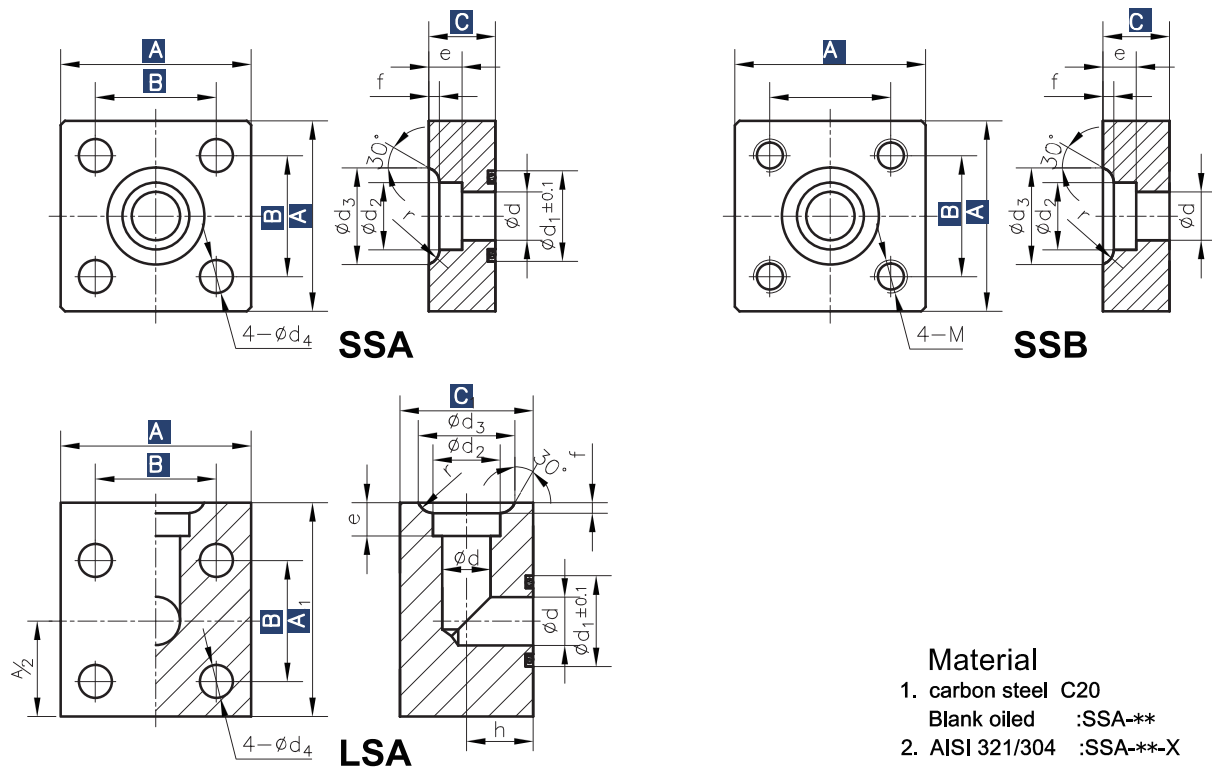
Material

- carbon steel C20
Blank oiled :SHA-**-
- AISI 321/304 :SHA-**-X
- AISI 316L :SHA-**-XX

Size (inch)	Type	dimension														Accessories for use		Wt (kg)
		A	A ₁	B	C	C ₁	h	d	d ₁	d ₂	e	d ₃	d ₄	f	r	bolt	o-ring	
1/2"	SHA	63	69	40	22	40	20	16	30	22.2	11	32	11	3.5	5	M10x55	24.4x3.1	0.566
	SHB															M10x55		0.572
	LHA																24.4x3.1	1.126
3/4"	SHA	68	76	45	22	45	22.5	20	35	27.7	12	38	11	4	5	M10x55	29.4x3.1	0.645
	SHB															M10x55		0.652
	LHA																29.4x3.1	1.490
1"	SHA	80	89	53	28	50	25	25	40	34.5	14	45	13	4	5	M12x70	34.4x3.1	1.131
	SHB															M12x70		1.140
	LHA																34.4x3.1	2.236
1 1/4"	SHA	90	99	63	28	63	31.5	31.5	45	43.2	16	56	13	6	5	M12x70	39.4x3.1	1.389
	SHB															M12x70		1.399
	LHA																39.4x3.1	3.513
1 1/2"	SHA	100	116	70	36	71	35.5	37.5	55	49.1	18	63	18	7	5	M16x90	49.4x3.1	2.109
	SHB															M16x90		2.122
	LHA																49.4x3.1	4.885
2"	SHA	112	130	80	36	85	42.5	47.5	65	61.1	20	75	18	7	5	M16x90	59.4x3.1	2.567
	SHB															M16x90		2.578
	LHA																59.4x3.1	7.241
2 1/2"	SHA	140	160	100	45	106	53	60	80	77.1	22	95	22	9.5	6	M20x115	74.4x3.1	5.040
	SHB															M20x115		5.058
	LHA																74.4x3.1	13.908
3"	SHA	155	180	112	45	118	59	71	90	90	25	108	24	11	6	M22x115	84.4x3.1	5.917
	SHB															M22x115		5.938
	LHA																84.4x3.1	18.784

Specification:

- Flange only: SHA-15, SHB-15, LHA-15, SHA-15-X, SHB-15-X, LHA-15-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M



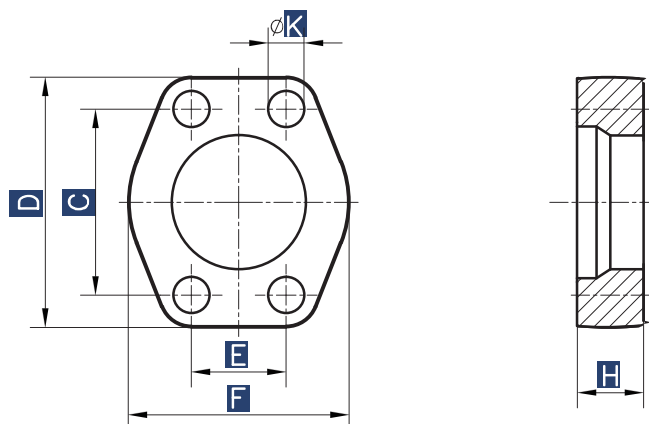
Material

- carbon steel C20
Blank oiled :SSA-**-
- AISI 321/304 :SSA-**-X
- AISI 316L :SSA-**-XX

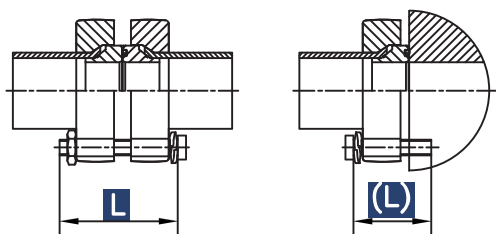
Size (inch)	Type	dimension															Accessories for use		Wt (kg)
		A	A ₁	B	C	C ₁	h	d	d ₁	d ₂	e	d ₃	d ₄	M	f	r	bolt	o-ring	
1/2"	SSA -15	54	63	36	22	40	20	16	30	22.2	11	32	11	M10	3.5	5	M10x40	24.4x3.1	0.382
	SSB -15																		0.415
	LSA -15																	24.4x3.1	0.832
3/4"	SSA -20	58	70	40	22	45	22.5	20	35	27.7	12	38	11	M10	4	5	M10x40	29.4x3.1	0.427
	SSB -20																		0.461
	LSA -20																	29.4x3.1	1.101
1"	SSA -25	68	82	48	28	50	25	25	40	34.5	14	45	13	M12	4	5	M12x50	34.4x3.1	0.737
	SSB -25																		0.791
	LSA -25																	34.4x3.1	1.634
1 1/4"	SSA -32	76	92	56	28	63	31.5	31.5	45	43.2	16	56	13	M12	6	5	M12x50	39.4x3.1	0.874
	SSB -32																		0.928
	LSA -32																	39.4x3.1	2.559
1 1/2"	SSA -40	92	110	65	36	71	35.5	37.5	55	49.1	18	63	18	M16	7	5	M16x65	49.4x3.1	1.671
	SSB -40																		1.797
	LSA -40																	49.4x3.1	4.078
2"	SSA -50	100	125	73	36	85	42.5	47.5	65	61.1	20	75	18	M16	7	5	M16x65	59.4x3.1	1.838
	SSB -50																		1.966
	LSA -50																	59.4x3.1	5.853
2 1/2"	SSA -65	128	150	92	45	106	53	60	80	77.1	22	95	22	M20	9.5	6	M20x80	74.4x3.1	3.902
	SSB -65																		4.117
	LSA -65																	74.4x3.1	11.334
3"	SSA -80	140	170	103	45	118	59	71	90	90	25	108	24	M22	11	6	M22x80	84.4x3.1	4.352
	SSB -80																		4.590
	LSA -80																	84.4x3.1	15.064

Specification:

- Flange only: SSA-15, SSB-15, LSA-15, SSA-15-X, SSB-15-X, LSA-15-X
- Flange with bolts and O-ring: for Metric bolts with the suffix M



FF--F



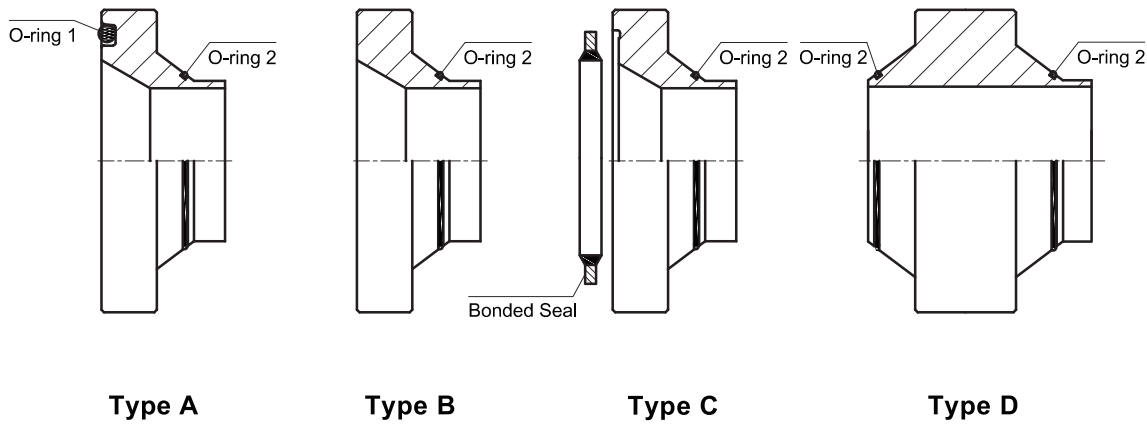
双面法兰式

单面法兰式

Material

- carbon steel Q345B
Cr+3 white zinked :FF***F-CFX
- AISI 316L :FF***F-XX

Size (inch)	Type	dimension						bolt	Wt (kg)	MAX.W.P (kg/cm ²)
		C	D	E	F	H	K	L (L)		
3000 psi										
1/2"	FF308F	38.1	54	17.5	46	20	9	M8x60 (40)	0.183	345
3/4"	FF312F	47.6	65	22.2	52	20	11	M10x60 (40)	0.233	345
1"	FF316F	52.4	70	26.2	59	20	11	M10x60 (40)	0.256	345
1 1/4"	FF320F	58.7	79	30.2	73	20	11	M10x70 (40)	0.411	276
1 1/2"	FF324F	69.9	94	35.7	83	25	13.5	M12x80 (45)	0.673	276
2"	FF332F	77.8	102	42.9	97	30	13.5	M12x80 (50)	1.001	276
2 1/2"	FF340F	88.9	114	50.8	109	40	13.5	M12x110 (60)	1.524	207
3"	FF348F	106.4	135	61.9	131	50	17.5	M16x130 (80)	2.609	207
6000 psi										
1/2"	FF608F	40.5	56	18.2	48	22	9	M8x65 (40)	0.228	414
3/4"	FF612F	50.8	71	23.8	60	23	11	M10x70 (40)	0.396	414
1"	FF616F	57.2	81	27.8	70	25	13.5	M12x75 (45)	0.532	414
1 1/4"	FF620F	66.7	95	31.7	78	30	15	M14x90 (50)	0.902	414
1 1/2"	FF624F	79.4	113	36.5	95	33	17.5	M16x100 (60)	1.421	414
2"	FF632F	96.8	133	44.5	114	38	21	M20x110 (70)	2.304	414

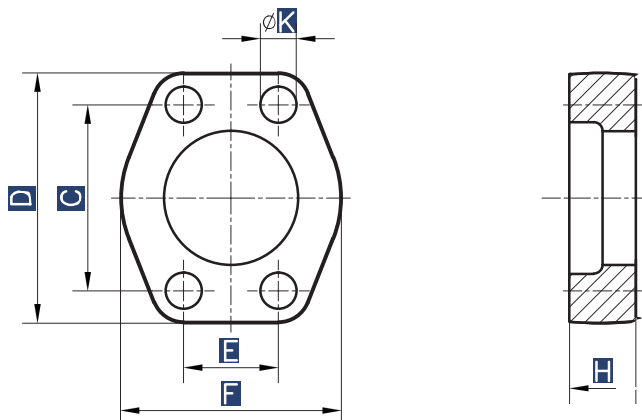


Type A/B/C/D are four different models for the installation of the tapered sleeve. It can be chosen based on your requirement. O-rings 1 and 2 and combination gaskets are selected according to the diagram.

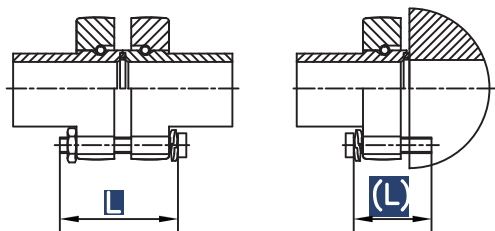
Material

- carbon steel Q345B
Cr+3 white zinked : **/**x**FA-CFX
- AISI 316L : **/**x**FA-XX

Size (inch)	Pipe Size	Type				Accessories for use				
		Type A	Type B	Type C	Type D	Flange	Sleeve	o-ring 1	o-ring 2	Bonded Seal
1/2"	16x2	08/16x2FA	08/16x2FB	08/16x2FC	08/16x2FD	FF308F 或 FF608F	08/16F	18.66x3.53	12x1.0	023
	18x2	08/18x2FA	08/18x2FB	08/18x2FC	08/18x2FD		08/18F		14x1.0	
	20x2	08/20x2FA	08/20x2FB	08/20x2FC	08/20x2FD		08/20F		16x1.0	
	25x2.5	08/25x2.5FA	08/25x2.5FB	08/25x2.5FC	08/25x2.5FD		None		20x1.0	
	25x3	08/25x3FA	08/25x3FB	08/25x3FC	08/25x3FD		None		20x1.0	
3/4"	20x2	12/20x2FA	12/20x2FB	12/20x2FC	12/20x2FD	FF312F 或 FF612F	12/20F	25.00x3.53	16x1.0	013
	20x2.5	12/20x2.5FA	12/20x2.5FB	12/20x2.5FC	12/20x2.5FD		12/20F		15x1.0	
	25x2.5	12/25x2.5FA	12/25x2.5FB	12/25x2.5FC	12/25x2.5FD		12/25F		20x1.0	
	25x3	12/25x3FA	12/25x3FB	12/25x3FC	12/25x3FD		12/25F		20x1.0	
	30x3	12/30x3FA	12/30x3FB	12/30x3FC	12/30x3FD		None		23x1.0	
1"	25x2.5	16/25x2.5FA	16/25x2.5FB	16/25x2.5FC	16/25x2.5FD	FF316F 或 FF616F	16/25F	32.92x3.53	20x1.0	027
	25x3	16/25x3FA	16/25x3FB	16/25x3FC	16/25x3FD		16/25F		20x1.0	
	30x3	16/30x3FA	16/30x3FB	16/30x3FC	16/30x3FD		16/30F		23x1.0	
	30x4	16/30x4FA	16/30x4FB	16/30x4FC	16/30x4FD		16/30F		22x1.0	
	38x4	16/38x4FA	16/38x4FB	16/38x4FC	16/38x4FD		None		30x1.0	
1 1/4"	30x3	20/30x3FA	20/30x3FB	20/30x3FC	20/30x3FD	FF320F 或 FF620F	20/30F	37.70x3.53	23x1.0	030
	30x4	20/30x4FA	20/30x4FB	20/30x4FC	20/30x4FD		20/30F		22x1.0	
	38x4	20/38x4FA	20/38x4FB	20/38x4FC	20/38x4FD		20/38F		30x1.0	
	38x5	20/38x5FA	20/38x5FB	20/38x5FC	20/38x5FD		20/38F		28x1.0	
	42x4	20/42x4FA	20/42x4FB	20/42x4FC	20/42x4FD		None		34x1.0	
1 1/2"	30x3	24/30x3FA	24/30x3FB	24/30x3FC	24/30x3FD	FF324F 或 FF624F	24/30F	47.22x3.53	23x1.0	032
	38x4	24/38x4FA	24/38x4FB	24/38x4FC	24/38x4FD		24/38F		30x1.0	
	42x4	24/42x4FA	24/42x4FB	24/42x4FC	24/42x4FD		24/42F		34x1.0	
	50x5	24/50x5FA	24/50x5FB	24/50x5FC	24/50x5FD		None		41x1.78	
2"	50x5	32/50x5FA	32/50x5FB	32/50x5FC	32/50x5FD	FF332F 或 FF632F	32/50F	56.75x3.53	41x1.78	019
	60x5	32/60x5FA	32/60x5FB	32/60x5FC	32/60x5FD		None		50.52x1.78	
	60x6	32/60x6FA	32/60x6FB	32/60x6FC	32/60x6FD		None		47.37x1.78	
2 1/2"	60x5	40/60x5FA	40/60x5FB	40/60x5FC	40/60x5FD	FF340F	40/60F	69.45x3.53	50.52x1.78	036
	72x7	40/72x7FA	40/72x7FB	40/72x7FC	40/72x7FD		None		56.87x1.78	
	75x5	40/75x5FA	40/75x5FB	40/75x5FC	40/75x5FD		None		63.22x1.78	
3"	75x5	48/75x5FA	48/75x5FB	48/75x5FC	48/75x5FD	FF348F	48/75F	85.32x3.53	63.22x1.78	039
	90x5	48/90x5FA	48/90x5FB	48/90x5FC	48/90x5FD		None		79x1.78	



RF--F



双面法兰式

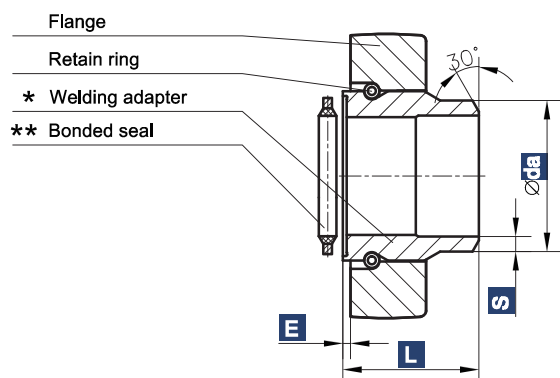
单面法兰式

Material

- carbon steel Q345B
Cr+3 white zinked :RF***F-CFX
- AISI 316L :RF***F-XX

Size (inch)	Type	dimension						bolt	Wt (kg)	MAX.W.P (kg/cm ²)
		C	D	E	F	H	K	L (L)		
3000 psi										
1/2"	RF308F	38.1	54	17.5	46	20	9	M8x60 (40)	0.183	345
3/4"	RF312F	47.6	65	22.2	52	20	11	M10x60 (40)	0.211	345
1"	RF316F	52.4	70	26.2	59	20	11	M10x60 (40)	0.271	345
1 1/4"	RF320F	58.7	79	30.2	73	20	11	M10x70 (40)	0.395	276
1 1/2"	RF324F	69.9	94	35.7	83	25	13.5	M12x80 (45)	0.631	276
2"	RF332F	77.8	102	42.9	97	30	13.5	M12x80 (50)	0.933	276
2 1/2"	RF340F	88.9	114	50.8	109	40	13.5	M12x110 (60)	1.402	207
3"	RF348F	106.4	135	61.9	131	50	17.5	M16x130 (80)	2.346	207
6000 psi										
1/2"	RF608F	40.5	56	18.2	48	22	9	M8x60 (40)	0.230	414
3/4"	RF612F	50.8	71	23.8	60	23	11	M10x70 (40)	0.364	414
1"	RF616F	57.2	81	27.8	70	25	13.5	M12x70 (45)	0.546	414
1 1/4"	RF620F	66.7	95	31.7	78	30	15	M14x90 (50)	0.866	414
1 1/2"	RF624F	79.4	113	36.5	95	33	17.5	M16x100 (60)	1.352	414
2"	RF632F	96.8	133	44.5	114	38	21	M20x110 (70)	2.201	414

RETAIN RING FLANGE ADAPTER



Remark: * Socket welding adapter and male and female thread adapters also could be supplied.
** O-ring seal also could be supplied.
(Please contact with our salesperson)

RFJ

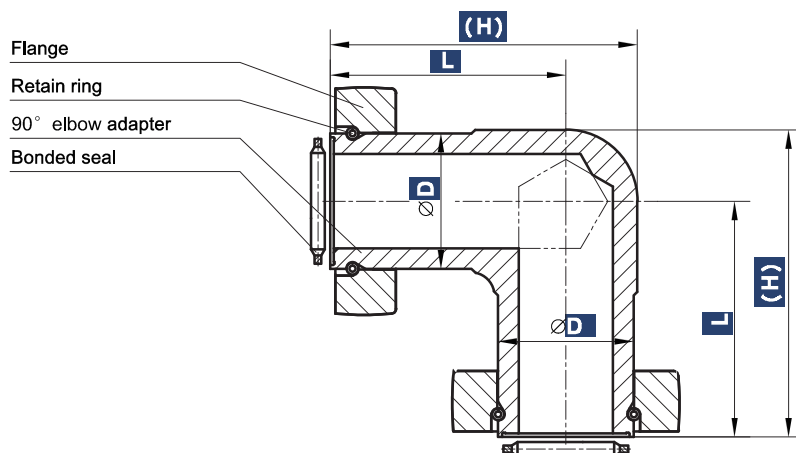
butt welding adapter

da x s indicates the outer diameter x wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

Material

- carbon steel Q345B
Blank oiled :RFJ**-daxs
- AISI 321/304 :RFJ**-daxs-X
- AISI 316L :RFJ**-daxs-XX

Size (inch)	Type	(daxs) Pipe Size	dimension		Accessories for use		
			L	E	Flange	Retain Ring	Bonded Seal
1/2"	RFJ08-daxs (eg: RFJ08-16x3)	16x3, 18x3 20x3, 22x3 22x5, 26x6	45	3	RF308F or RF608F	RFR-08	023
3/4"	RFJ12-daxs (eg: RFJ12-20x3)	20x3, 25x4 26.9x3.6, 28x1.5 30x5, 36x8	45	3	RF312F or RF612F	RFR-12	013
1"	RFJ16-daxs (eg: RFJ16-25x3)	25x3, 30x4 34x4, 35x5 38x5, 39x7.5	50	2	RF316F or RF616F	RFR-16	027
1 1/4"	RFJ20-daxs (eg: RFJ20-38x4)	38x4, 38x5 42.4x3.2, 42.4x4 42.4x6.3, 46x8	55	3	RF320F or RF620F	RFR-20	030
1 1/2"	RFJ24-daxs (eg: RFJ24-42.4x4)	42.4x4, 48.3x3.2 48.3x4.5, 48.6x5.3 50x6, 56x8.5	60	3	RF324F or RF624F	RFR-24	032
2"	RFJ32-daxs (eg: RFJ32-48.3x3.2)	48.3x3.2, 57x5 60.3x4, 60.3x5.6 60.3x6.3, 66x8.5	75	3	RF332F or RF632F	RFR-32	019
2 1/2"	RFJ40-daxs (eg: RFJ40-60.3x4)	60.3x4, 70x7 76.1x4, 76.1x5.5 76.1x7.1, 80x10	90	3	RF340F	RFR-40	036
3"	RFJ48-daxs (eg: RFJ48-76.1x5.5)	76.1x5.5, 89x4 89x6, 89x8 90x10, 97x12	110	6	RF348F	RFR-48	039



RFJW

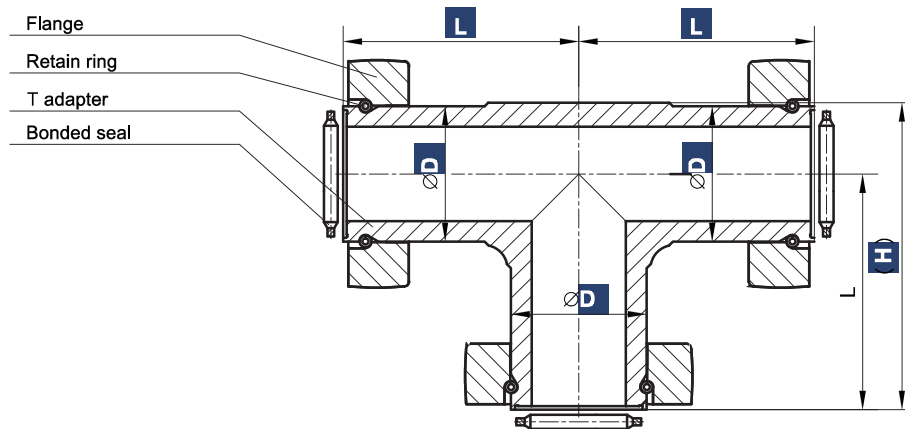
Material

- carbon steel Q345B
Blank oiled :RFJW**
Cr+3 white zinked :RFJW**—CFX
Ni-Zn zinked :RFJW**—ZN
- AISI 316L :RFJW**—XX

Size (inch)	Type	dimension			Accessories for use			Wt (kg)
		D	L	H	Flange	Retain Ring	Bonded Seal	
1/2"	RFJW08	26	60	74	RF308F / RF608F	RFR-08	023	0.392
3/4"	RFJW12	36	65	84.5	RF312F / RF612F	RFR-12	013	0.772
1"	RFJW16	39	70	91	RF316F / RF616F	RFR-16	027	0.804
1 1/4"	RFJW20	46	80	104.5	RF320F / RF620F	RFR-20	030	1.107
1 1/2"	RFJW24	56	90	119.5	RF324F / RF624F	RFR-24	032	1.908
2"	RFJW32	66	110	144.5	RF332F / RF632F	RFR-32	019	2.581
2 1/2"	RFJW40	80	130	171.5	RF340F	RFR-40	036	4.142
3"	RFJW48	97	160	210	RF348F	RFR-48	039	8.346

Specification:

RFJW: Part No. only for adapter. Flange, retain ring and bonded seal need to be ordered, separately, reduced size also available. Please contact with our salesperson.



RFJT

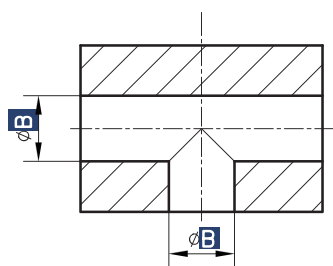
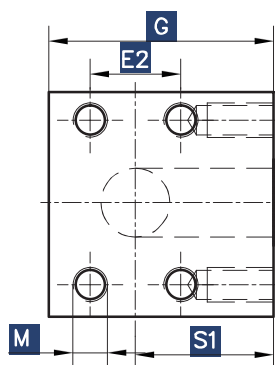
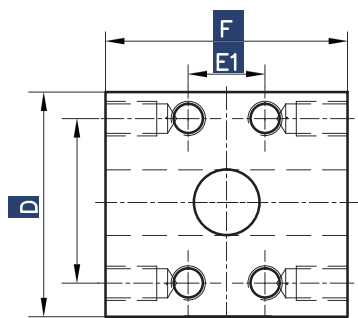
Material

- carbon steel Q345B
Blank oiled :RFJT**
Cr+3 white zinked :RFJT**--CFX
Ni-Zn zinked :RFJT***-ZN
- AISI 316L :RFJT***-XX

Size (inch)	Type	dimension			Accessories for use			Wt (kg)
		D	L	H	Flange	Retain Ring	Bonded Seal	
1/2"	RFJT08	26	60	74	RF308F / RF608F	RFR-08	023	0.523
3/4"	RFJT12	36	65	84.5	RF312F / RF612F	RFR-12	013	1.045
1"	RFJT16	39	70	91	RF316F / RF616F	RFR-16	027	1.080
1 1/4"	RFJT20	46	80	104.5	RF320F / RF620F	RFR-20	030	1.464
1 1/2"	RFJT24	56	90	119.5	RF324F / RF624F	RFR-24	032	2.530
2"	RFJT32	66	110	144.5	RF332F / RF632F	RFR-32	019	3.387
2 1/2"	RFJT40	80	130	171.5	RF340F	RFR-40	036	5.251
3"	RFJT48	97	160	210	RF348F	RFR-48	039	10.941

Specification:

RFJT: Part No. only for adapter. Flange, retain ring and bonded seal need to be ordered, seperately, reduced size also available. Please contact with our salesperson.

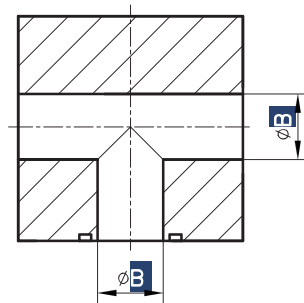
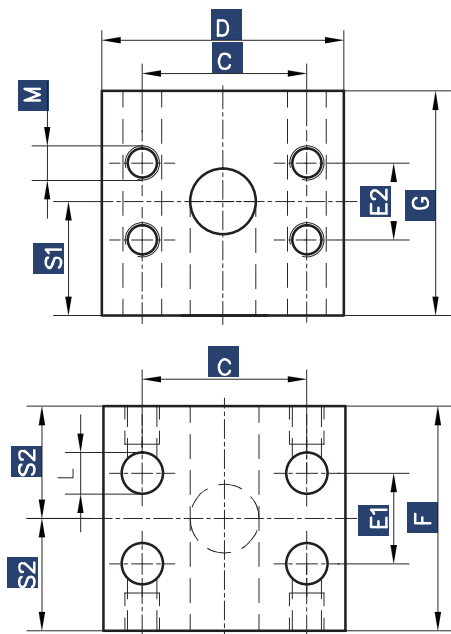


T-BL

Material

- carbon steel C45
Blank oiled :T-BL-***
Cr+3 white zinked :T-BL-***-CFX
Ni-Zn zinked :T-BL-***-ZN
- AISI 321/304 :T-BL-***-X
- AISI 316L :T-BL-***-XX

Size (inch)	Type	dimension									Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E1	E2	F	G	S1	M		
3000 psi												
1/2"	T-BL-301-301	13	38.10	55	17.48	17.48	70	50	25	M8	1.340	345
3/4"	T-BL-302-302	19	47.63	65	22.23	22.23	75	55	27.5	M10	1.764	345
1"	T-BL-303-303	25	52.37	70	26.19	26.19	80	60	30	M10	2.125	345
1 1/4"	T-BL-304-304	32	58.72	80	30.18	30.18	90	70	35	M10	3.122	276
1 1/2"	T-BL-305-305	38	69.85	95	35.71	35.71	110	85	42.5	M12	5.538	207
2"	T-BL-306-306	50	77.77	110	42.88	42.88	120	100	50	M12	7.833	207
2 1/2"	T-BL-307-307	63	88.90	110	50.80	50.80	160	120	60	M12	11.614	160
3"	T-BL-308-308	73	106.38	135	61.93	61.93	160	160	80	M16	19.728	138
6000 psi												
1/2"	T-BL-601-601	13	40.49	60	18.24	18.24	90	50	25	M8	1.920	414
3/4"	T-BL-602-602	19	50.80	70	23.80	23.80	72	55	32	M10	1.851	414
1"	T-BL-603-603	23	57.15	82	27.76	27.76	90	64	37	M12	3.114	414
1 1/4"	T-BL-604-604	30	66.68	96	31.75	31.75	100	72	41	M14	4.372	414
1 1/2"	T-BL-605-605	38	79.38	110	36.50	36.50	107	100	50	M16	7.482	414
2"	T-BL-606-606	50	96.82	133	44.45	44.45	135	107	64	M20	11.531	414
2 1/2"	T-BL-607-607	62	123.83	180	58.73	58.73	180	155	77.5	M24	32.817	414

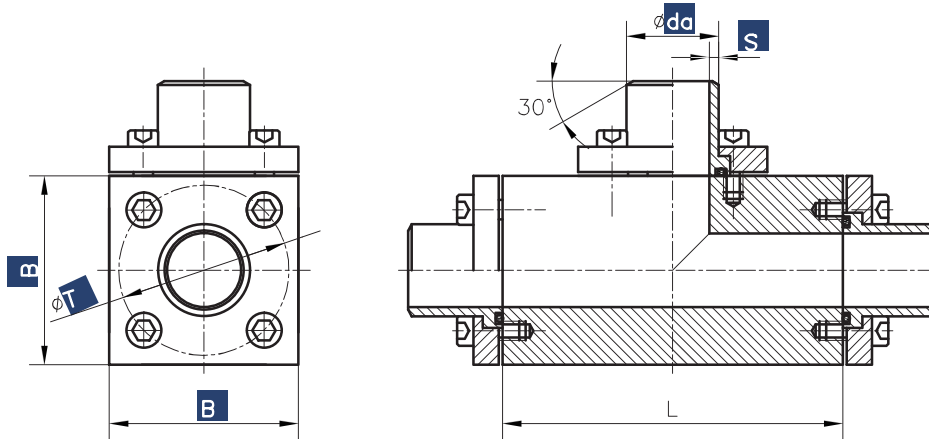


T-GD

Material

1. carbon steel C45
Blank oiled :T-GD-***
Cr+3 white zinked :T-GD-***-CFX
Ni-Zn zinked :T-GD-***-ZN
2. AISI 321/304 :T-GD-***-X
3. AISI 316L :T-GD-***-XX

Size (inch)	Type	dimension											Wt (kg)	MAX.W.P (kg/cm ²)
		B	C	D	E1	E2	F	G	L	M	S1	S2		
3000 psi														
1/2"	T-GD-301-301	13	38.10	55	17.48	17.48	70	50	9	M8	25	35	1.259	345
3/4"	T-GD-302-302	19	47.63	65	22.23	22.23	75	55	11	M10	27.5	37.5	1.642	345
1"	T-GD-303-303	25	52.37	72	26.19	26.19	80	60	11	M10	30	40	2.059	345
1 1/4"	T-GD-304-304	32	58.72	82	30.18	30.18	90	70	11.5	M10	35	45	3.020	276
1 1/2"	T-GD-305-305	38	69.85	98	35.71	35.71	110	85	13.5	M12	42.5	55	5.418	207
2"	T-GD-306-306	50	77.77	102	42.88	42.88	120	100	13.5	M12	50	60	6.677	207
2 1/2"	T-GD-307-307	63	88.90	115	50.80	50.80	160	120	13.5	M12	60	80	11.868	160
3"	T-GD-308-308	73	106.38	135	61.93	61.93	160	160	17.5	M16	80	80	18.667	138
6000 psi														
1/2"	T-GD-601-601	13	40.49	60	18.24	18.24	90	50	9	M8	25	45	1.843	414
3/4"	T-GD-602-602	19	50.80	72	23.80	23.80	72	55	11	M10	32	36	1.781	414
1"	T-GD-603-603	23	57.15	82	27.76	27.76	90	64	14	M12	37	45	2.874	414
1 1/4"	T-GD-604-604	30	66.68	96	31.75	31.75	100	72	16	M14	41	50	4.051	414
1 1/2"	T-GD-605-605	38	79.38	114	36.50	36.50	107	89	18	M16	50	55	6.273	414
2"	T-GD-606-606	50	96.82	133	44.45	44.45	135	107	22	M20	64	67.5	10.705	414
2 1/2"	T-GD-607-607	62	123.83	180	58.73	58.73	180	155	26	M24	77.5	90	30.423	414



FV

da x s

indicates the outer diameter × wall thickness at the butt weld of the welded tube. A 30° welding bevel is generally provided.
The specifications listed in this catalog are our company's standard ones.
Non-standard customization is available upon customer's request.

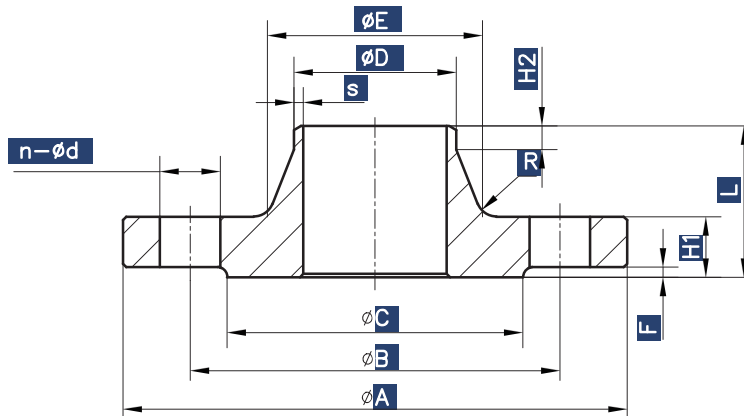
Material

- carbon steel C45
Cr+3 white zinked :FV***-CFX
Ni-Zn zinked :FV***-ZN
- AISI 321/304 :FV***-X
- AISI 316L :FV***-XX

Type	dimension				Wt (kg)
	daxs	B	T	L	
FV50	apply FA 10-3 FA 10-4	50	44	97	1.6
FV60	apply FA 12-3 FA 12-4	60	54	106	2.6
FV60	apply FA 16-3 FA 16-4	60	54	106	2.6
FV70	apply FA 20-3 FA 20-4	70	64	115	3.9
FV80	apply FA 25-3 FA 25-4	80	72	123	5.4
FV90	apply FA 32-3 FA 32-4	90	80	140	7.3
FV100	apply FA 40-3 FA 40-4	100	98	160	10
FV120	apply FA 50-3 FA 50-4	120	118	180	16
FV150	apply FA 65-3 FA 65-4	150	145	210	27
FV180	apply FA 80-3 FA 80-4	180	175	260	49

Specification:

- Flange T-block only: FV50, FV50-X
 - T-block and all welding couplings and flanges assembly: FV50-16x3-X
- *For square flange block parts, also supply according to the drawing of customer.



C**2633

Material

- carbon steel C20
Blank oiled :C**2633
- AISI 321/304 :C**2633-X
- AISI 316L :C**2633-XX

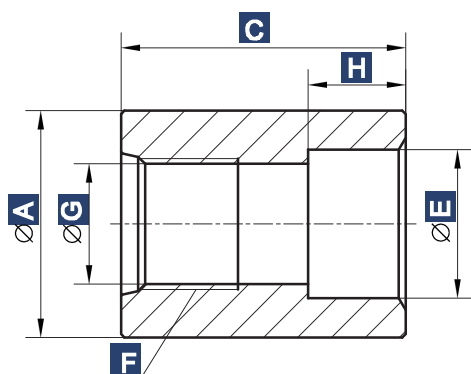
DIN2632、2635、2527 also available

Type	dimension											Wt (kg)
	A	B	C	DXs	E	F	H1	H2	L	n-Ød	R	
C10-17.2X1.8-2633	90	60	40	17.2x1.8	28	2	14	6	35	4-Ø14	4	0.579
C15-21.3X2-2633	95	65	45	21.3x2	32	2	14	6	35	4-Ø14	4	0.652
C20-26.9X2.3-2633	105	75	58	26.9x2.3	40	2	16	6	38	4-Ø14	4	0.946
C25-33.7X2.6-2633	115	85	68	33.7x2.6	45	2	16	6	38	4-Ø14	4	1.135
C32-42.4X2.6-2633	140	100	78	42.4x2.6	56	2	16	6	40	4-Ø18	6	1.658
C40-48.3X2.6-2633	150	110	88	48.3x2.6	64	3	16	7	42	4-Ø18	6	1.846
C50-60.3X2.9-2633	165	125	102	60.3x2.9	75	3	18	8	45	4-Ø18	6	2.496
C65-76.1X2.9-2633	185	145	122	76.1x2.9	90	3	18	10	45	4-Ø18	6	3.049
C80-88.9X3.2-2633	200	160	138	88.9x3.2	105	3	20	10	50	8-Ø18	8	3.835
C100-114.3X3.6-2633	220	180	158	114.3x3.6	131	3	20	12	52	8-Ø18	8	4.418
C125-139.7X4-2633	250	210	188	139.7x4	156	3	22	12	55	8-Ø18	8	6.077
C150-168.3X4.5-2633	285	240	212	168.3x4.5	184	3	22	12	55	8-Ø22	10	7.752
C175-193.7X5.4-2633	315	270	242	193.7x5.4	210	3	24	12	60	8-Ø22	10	9.887
C200-219.1X5.9-2633	340	295	268	219.1x5.9	235	3	24	16	62	12-Ø22	10	10.866
C250-273X6.3-2633	405	355	320	273x6.3	292	3	26	16	70	12-Ø26	12	16.012

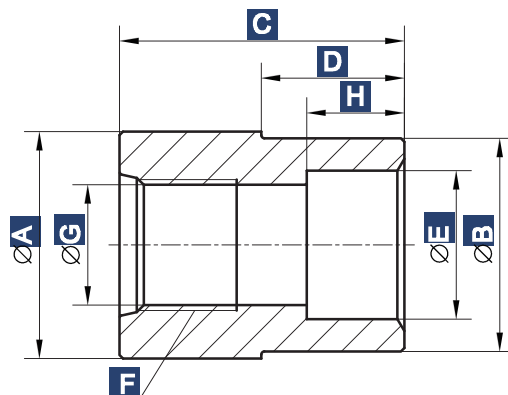
Specification:

Flange only: C10-17.2X1.8-2633、C10-17.2X1.8-2633-XX

RESERVOIR FULL ADAPTER WITH FEMALE UN THREAD AND SOCKET WELDING



RE820--



RE820B--

Material

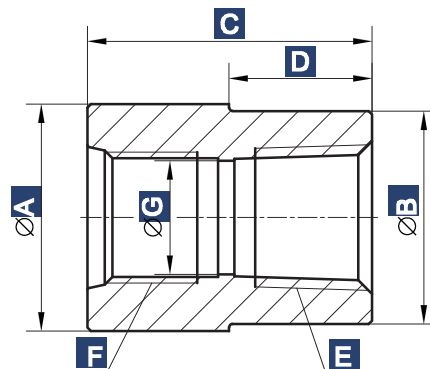
1. carbon steel Q345B
2. AISI 316L

Type	dimension								Wt (kg)
	A	B	C	D	E	F	G	H	
RE820-8	34.9	---	41.4	---	21.6	3/4-16UNF	17.5	14.2	0.216
RE820-12	41.3	---	52.3	---	27	1 1/16-12UN	24.9	14.2	0.336
RE820-16	47.6	---	52.3	---	34	1 5/16-12UN	31.3	16	0.392
RE820-20	60.3	---	52.3	---	42.8	1 5/8-12UN	39.2	17.5	0.637
RE820-24	73	---	55.9	---	48.6	1 7/8-12UN	45.6	19	1.079
RE820-32	85.7	---	63.5	---	61	2 1/2-12UN	55	22.2	1.459
RE820B-8	34.9	31.8	41.4	20.8	21.6	3/4-16UNF	17.5	14.2	0.190
RE820B-12	41.3	38.1	52.3	26.2	27	1 1/16-12UN	24.9	14.2	0.293
RE820B-16	47.6	44.5	52.3	26.2	34	1 5/16-12UN	31.3	16	0.346
RE820B-20	60.3	57.2	52.3	26.2	42.8	1 5/8-12UN	39.2	17.5	0.578
RE820B-24	73	69.9	55.9	28	48.6	1 7/8-12UN	45.6	19	1.003
RE820B-32	85.7	82.6	63.5	31.8	61	2 1/2-12UN	55	22.2	1.357

Specification:

Adapter only: RE820-8, RE820-8-XX, RE820B-8, RE820B-8-XX

RESERVOIR FULL ADAPTER WITH FEMALE UN/NPT THREAD



RE825--

Material

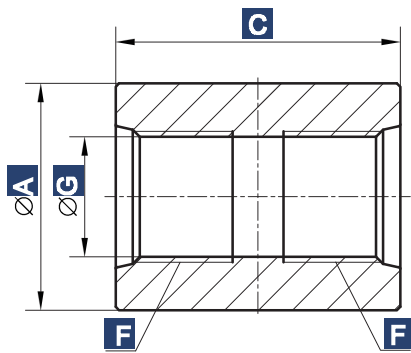
1. Q345B, carbon steel Q345B
2. AISI 316L

Type	dimension							Wt (kg)
	A	B	C	D	E	F	G	
RE825-4	28.6	25.4	32.3	16.3	NPT1/4	7/16-20UNF	9.9	0.123
RE825-6	31.8	28.6	38.1	19.1	NPT3/8	9/16-18UNF	12.9	0.170
RE825-8	34.9	31.8	41.4	20.8	NPT1/2	3/4-16UNF	16.5	0.204
RE825-10-12	41.3	38.1	44.5	22.4	NPT3/4	7/8-14UNF	20.5	0.300
RE825-12	41.3	38.1	52.3	26.2	NPT3/4	1 1/16-12UN	21.6	0.323
RE825-14-16	47.6	44.5	54.6	27.4	NPT1	1 3/16-12UN	26.7	0.439
RE825-16	47.6	44.5	52.3	26.2	NPT1	1 5/16-12UN	26.7	0.391
RE825-20	60.3	57.2	52.3	26.2	NPT1 1/4	1 5/8-12UN	36.1	0.634
RE825-24	73	69.9	55.9	28	NPT1 1/2	1 7/8-12UN	41.9	1.076
RE825-32	85.7	82.6	63.5	31.8	NPT2	2 1/2-12UN	54	1.444

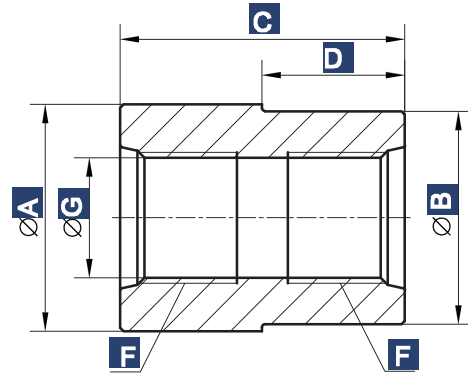
Specification:

Adapter only: RE825-4, RE825-4-XX

RESERVOIR FULL ADAPTER WITH FEMALE UN THREAD



RE830--



RE830B--

Material

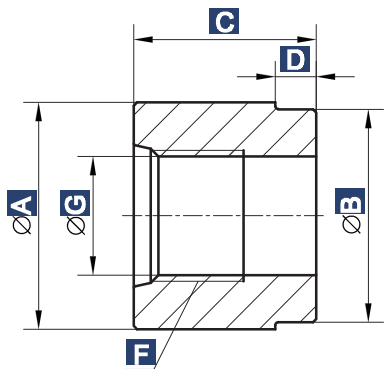
1. Q345B, carbon steel Q345B
2. AISI 316L

Type	dimension						Wt (kg)
	A	B	C	D	F	G	
RE830-6	28.6	---	31.8	---	9/16-18UNF	12.9	0.126
RE830-8	34.9	---	41.4	---	3/4-16UNF	17.5	0.229
RE830-10	38.1	---	38.1	---	7/8-14UNF	20.5	0.238
RE830-12	41.3	---	52.3	---	1 1/16-12UN	24.9	0.341
RE830-14	44.5	---	50.8	---	1 3/16-12UN	28.1	0.363
RE830-16	47.6	---	52.3	---	1 5/16-12UN	31.3	0.405
RE830-20	60.3	---	52.3	---	1 5/8-12UN	39.2	0.662
RE830-24	73	---	55.9	---	1 7/8-12UN	45.6	1.106
RE830-32	85.7	---	63.5	---	2 1/2-12UN	61.4	1.377
RE830B-6	28.6	25.4	31.8	16	9/16-18UNF	12.9	0.108
RE830B-8	34.9	31.8	41.4	20.8	3/4-16UNF	17.5	0.203
RE830B-10	38.1	34.9	38.1	19.1	7/8-14UNF	20.5	0.211
RE830B-12	41.3	38.1	52.3	26.2	1 1/16-12UN	24.9	0.300
RE830B-14	44.5	41.3	50.8	25.5	1 3/16-12UN	28.1	0.320
RE830B-16	47.6	44.5	52.3	26.2	1 5/16-12UN	31.3	0.359
RE830B-20	60.3	57.2	52.3	26.2	1 5/8-12UN	39.2	0.604
RE830B-24	73	69.9	55.9	28	1 7/8-12UN	45.6	1.030
RE830B-32	85.7	82.6	63.5	31.8	2 1/2-12UN	61.4	1.275

Specification:

Adapter only: RE830-6, RE830-6-XX, RE830B-6, RE830B-6-XX

RESERVOIR HALF ADAPTER WITH FEMALE SAE UN THREAD



RE835--

Material

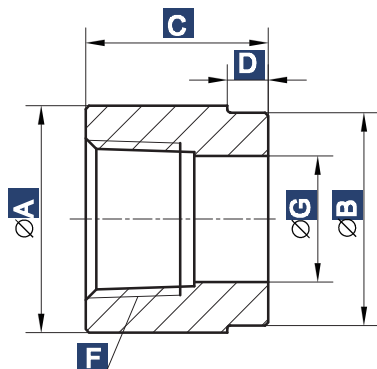
- 1. carbon steel Q345B
- 2. AISI 316L

Type	dimension						Wt (kg)
	A	B	C	D	F	G	
RE835-4	25.4	22.2	25.4	6.35	7/16-20UNF	9.9	0.079
RE835-6	28.6	25.4	25.4	6.35	9/16-18UNF	12.9	0.094
RE835-8	34.9	31.8	27	6.35	3/4-16UNF	17.5	0.142
RE835-10	38.1	34.9	27	6.35	7/8-14UNF	20.5	0.160
RE835-12	41.3	38.1	32.5	6.35	1 1/16-12UN	24.9	0.203
RE835-14	44.5	41.3	32.5	6.35	1 3/16-12UN	28.1	0.223
RE835-16	47.6	44.5	32.5	6.35	1 5/16-12UN	31.3	0.241
RE835-20	60.3	57.2	32.5	6.35	1 5/8-12UN	39.2	0.399
RE835-24	73	69.9	32.5	6.35	1 7/8-12UN	45.6	0.626
RE835-32	85.7	82.6	38	6.35	2 1/2-12UN	61.4	0.806

Specification:

Adapter only: RE835-4, RE835-4-XX

RESERVOIR HALF ADAPTER WITH FEMALE NPT THREAD



RE845--

Material

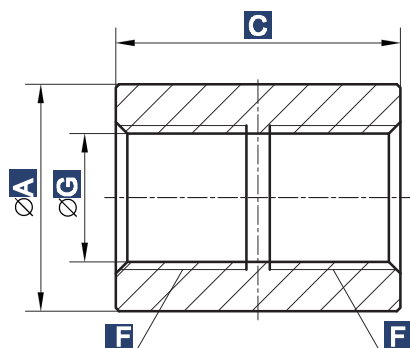
1. carbon steel Q345B
2. AISI 316L

Type	dimension						Wt (kg)
	A	B	C	D	F	G	
RE845-4	25.4	22.2	25.4	6.35	NPT1/4	9.9	0.077
RE845-6	28.6	25.4	25.4	6.35	NPT3/8	13.2	0.090
RE845-8	34.9	31.8	27	6.35	NPT1/2	16.5	0.143
RE845-12	41.3	38.1	32.5	6.35	NPT3/4	21.6	0.228
RE845-16	47.6	44.5	32.5	6.35	NPT1	26.7	0.279
RE845-20	60.3	57.2	32.5	6.35	NPT1 1/4	36.1	0.432
RE845-24	73	69.9	32.5	6.35	NPT1 1/2	39.6	0.681
RE845-32	85.7	82.6	38	6.35	NPT2	54	0.979

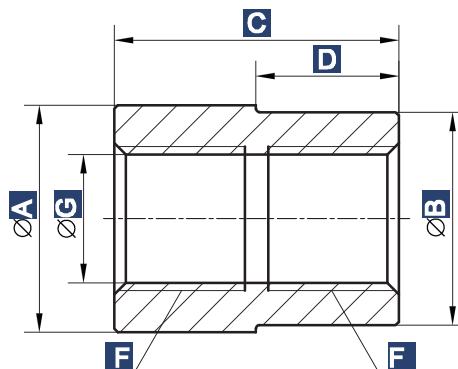
Specification:

Adapter only: RE845-4, RE845-4-XX

RESERVOIR FULL ADAPTER WITH FEMALE BSPP THREAD



RE850--



RE850B--

Material

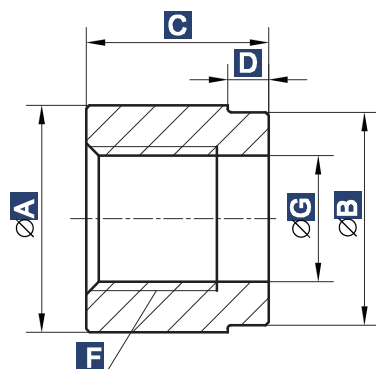
1. carbon steel Q345B
2. AISI 316L

Type	dimension						Wt (kg)
	A	B	C	D	F	G	
RE850-4	25.4	---	31.8	---	G1/4	11.5	0.100
RE850-6	28.6	---	31.8	---	G3/8	14.9	0.116
RE850-8	34.9	---	41.4	---	G1/2	18.6	0.221
RE850-12	41.3	---	52.3	---	G3/4	24.1	0.360
RE850-16	47.6	---	52.3	---	G1	30.3	0.431
RE850-20	60.3	---	52.3	---	G1 1/4	39	0.679
RE850-24	73	---	55.9	---	G1 1/2	44.9	1.138
RE850-32	85.7	---	63.5	---	G2	56.7	1.612
RE850B-4	25.4	22.2	31.8	16	G1/4	11.5	0.085
RE850B-6	28.6	25.4	31.8	16	G3/8	14.9	0.099
RE850B-8	34.9	31.8	41.4	20.8	G1/2	18.6	0.194
RE850B-12	41.3	38.1	52.3	26.2	G3/4	24.1	0.319
RE850B-16	47.6	44.5	52.3	26.2	G1	30.3	0.385
RE850B-20	60.3	57.2	52.3	26.2	G1 1/4	39	0.620
RE850B-24	73	69.9	55.9	28	G1 1/2	44.9	1.062
RE850B-32	85.7	82.6	63.5	31.8	G2	56.7	1.510

Specification:

Adapter only: RE850-4, RE850-4-XX, RE850B-4, RE850B-4-XX

RESERVOIR HALF ADAPTER WITH FEMALE BSPP THREAD



RE855--

Material

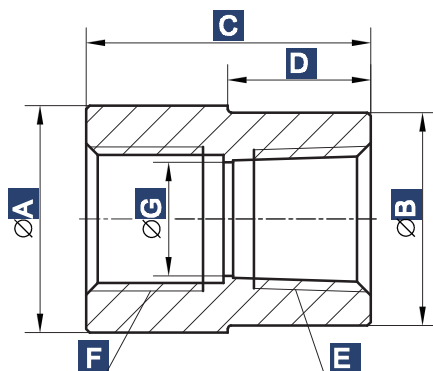
1. carbon steel Q345B
2. AISI 316L

Type	dimension						Wt (kg)
	A	B	C	D	F	G	
RE855-4	25.4	22.2	25.4	6.35	G1/4	11.5	0.074
RE855-6	28.6	25.4	25.4	6.35	G3/8	14.9	0.086
RE855-8	34.9	31.8	27	6.35	G1/2	18.6	0.136
RE855-12	41.3	38.1	32.5	6.35	G3/4	24.1	0.214
RE855-16	47.6	44.5	32.5	6.35	G1	30.3	0.257
RE855-20	60.3	57.2	32.5	6.35	G1 1/4	39	0.408
RE855-24	73	69.9	32.5	6.35	G1 1/2	44.9	0.645
RE855-32	85.7	82.6	38	6.35	G2	56.7	0.945

Specification:

Adapter only: RE855-4, RE855-4-XX

RESERVOIR FULL ADAPTER WITH FEMALE BSPP/NPT THREAD



RE860--

Material

1. carbon steel Q345B
2. AISI 316L

Type	dimension							Wt (kg)
	A	B	C	D	E	F	G	
RE860-4	28.6	25.4	32.3	16.3	NPT1/4	G1/4	10.2	0.120
RE860-6	31.8	28.6	38.1	19.1	NPT3/8	G3/8	12.9	0.165
RE860-8	34.9	31.8	41.4	20.8	NPT1/2	G1/2	16.5	0.199
RE860-12	41.3	38.1	52.3	26.2	NPT3/4	G3/4	21.6	0.333
RE860-16	47.6	44.5	52.3	26.2	NPT1	G1	26.7	0.401
RE860-20	60.3	57.2	52.3	26.2	NPT1 1/4	G1 1/4	36.1	0.639
RE860-24	73	69.9	55.9	28	NPT1 1/2	G1 1/2	41.9	1.084
RE860-32	85.7	82.6	63.5	31.8	NPT2	G2	54	1.531

Specification:

Adapter only: RE860-4, RE860-4-XX