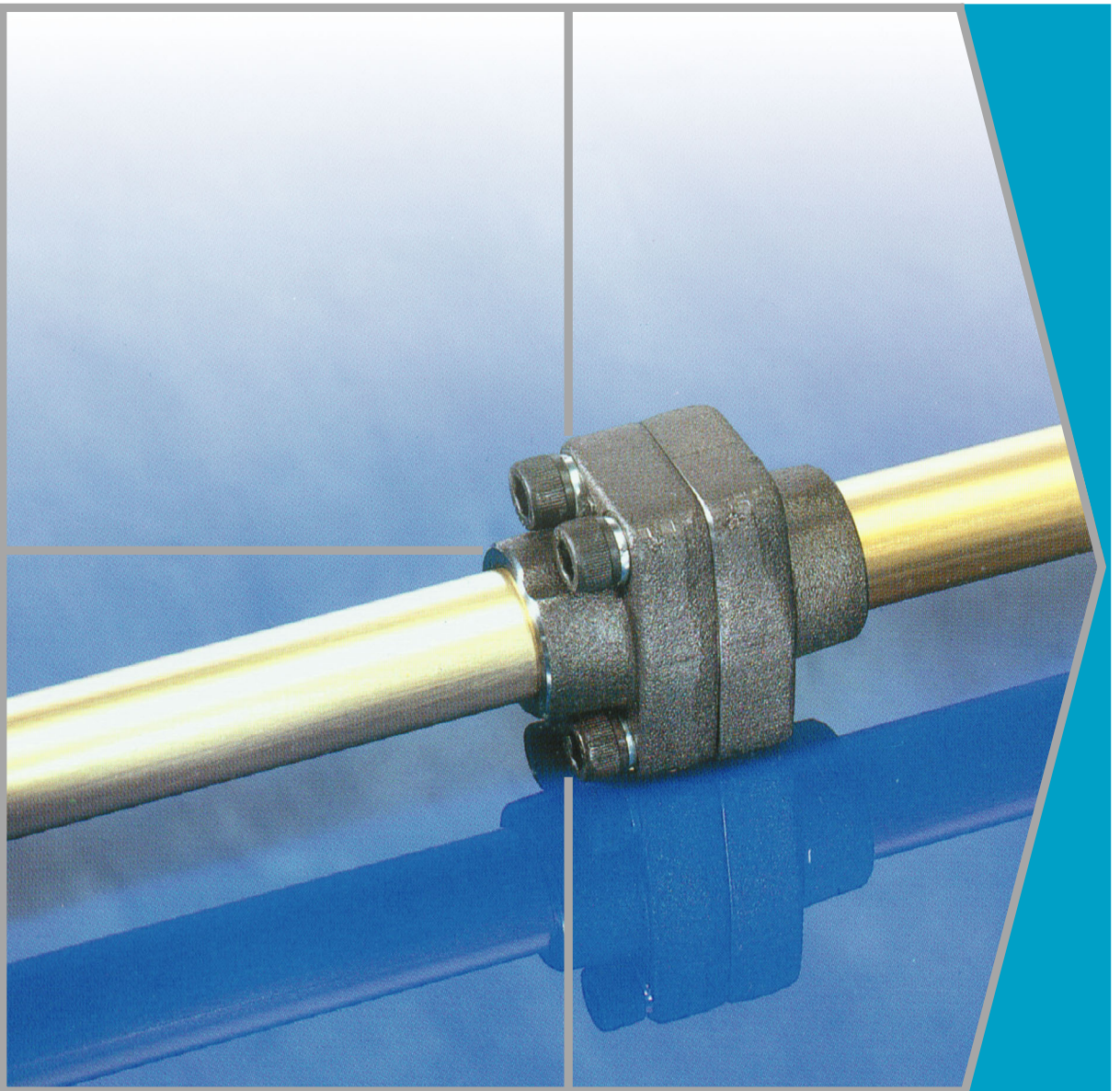


Hydraulic Flanges

SAE J 518 C & ISO 6164

Catalog No. H - 2002SF
Sep. 2026



HY-LOK CORPORATION

© HY-LOK CORPORATION All rights reserved



SAE-Flanges (ISO 6162)

SAE-split flange halves	SAFH	6
SAE-split flange halves - flat	SAHF	7
SAE-flange clamp	SAVH	8
SAE-flange clamp with tapped holes	SAVFG	9
SAE-flange clamp - flat	SAEFGA	10
SAE-flange clamp with tapped - flat	SAEFGB	11
SAE-pipe threaded flange	SAAFS	12
SAE-pipe threaded flange - companion	SAGFS	13
SAE-NPT threaded flange	SAAFS-N	14
SAE-NPT threaded flange-companion	SAGFS-N	15
SAE-UN-threaded flange	SAAFS-U	16
SAE-DIN 2353 connection 3901/3902	SAAFG	17
SAE-DIN 2353 connection 3901/3902	SASFCE	18/19
SAE-JIC fared connection flange	SAAFG-J	20
SAE-socket weld flange	SAAFS-SW	21
SAE-socket weld flange companion	SAGFS-SW	22
SAE-socket weld-coupling	SADFS-SW	23
SAE-socket weld flange 500 psi	SAAFC-SW	24
SAE-socket weld flange 500 psi - companion	SAGFC-SW	25
SAE-socket weld flange 500 psi - coupling	SADFC-SW	26
SAE-weld on flange	SAAFS-BW	27
SAE-weld on flange - companion	SAGFS-BW	28
SAE-weld on flange - pipe schedule 40	SAAFS-BW	29
SAE-weld on flange - pipe schedule 40 - companion	SAGFS-BW	30
SAE-weld in flange - metric tubes	SAAFS-M	31
SAE-weld in flange - metric tubes - companion	SAGFS-M	32
SAE-welding head	SASFH-BW	33
SAE-welding head - coupling	SADFH-BW	34
SAE-welding neck hub	SAEWNA	35
SAE-welding neck - coupling	SAEWNC	36
SAE-weld of coupling	SADFS-BW	37
SAE-closed flange	SAAFC	38
SAE-closed flange companion	SAAFG	39
SAE-closed flange plug	SABSO/BS	40
SAE-flange head	SAFT	41
SAE-locking sheet	SAAP	42
SAE-adaptor sheet	SAEP	43
SAE-adaptor flange with test-point	SAAGL	44
SAE-adaptor 90° - welded	SAAG	45
SAE-T-connection - welded	SAT	46
SAE-90° L-block	SAL-GD	47

Square flange connections(ISO 6164)

SAE-90° L-block - companion	SAL-BL	48
SAE-90° L-reduction	SARED-GD	49
SAE-T-block	SAT-GD	50
SAE-T-Block - companion flange	SAT-BL	51
ISO 6164 - Butt weld flange	AISOWNO	52
T-connection	SAVKV	53
Cetop - Butt weld flange	AISOWNO	54
Cetop - flange plug	SABS	55

Technical Informations

Used standards

Our flanges are based on the following standards :

SAE-flanges standard : SAE J518 C, ISO 6162

4-bolt square flanges standard : ISO / DIS 6164

Cetop-flanges standard : CETOP RP 63H, ISO 6164

Pressure rates

The maximum recommendaed working pressure is indicated at each single article.

Befor using a part, please take notice of the pressure indications.

All pressure indications are based on a working temperature from -20° celsius up to +90° celsius. Outside of this temperature range the pyhsical properties of the used material is impacted and the maximum recommended working pressure is reduced.

The indicated working pressure refer only on the flange itself.

For the used tubes, fittings and connections the pressure indications of the specific manufacture is the determinative factor.

Flange tube connections

For tube connections with our flanges, we recommend tubes which follow the following standard.

-seamless precision steel pipes according DIN2391, pipes according to ANSI/ASME B36.10M & B36.19M

For the flange sizes and pressure rates, we recommend the following tube dimensions

Size	Tubes to DIN 2391					Pipes to ANSI/ASME B36.10M & B36.19M			
	Series					Series			
	100bar	160bar	250bar	315bar	400bar	160bar(40S)	250bar(80S)	350bar(160S)	400bar(XXS)
½"	15 x 1 18 x 1	18 x 1.5	16 x 2 20 x 2.5	16 x 2.5 20 x 3	16 x 3 20 x 3.5	21.3 x 2.7	21.3 x 3.7	21.3 x 4.7	21.3 x 7.5
¾"			25 x 3	25 x 3.5	25 x 4	26.7 x 2.9	26.7 x 3.9	26.7 x 5.5	26.7 x 7.8
1"	28 x 2		28 x 3 30 x 4	30 x 5	30 x 6	33.4 x 3.4	33.4 x 4.5	33.4 x 6.4	33.7 x 9.1
1 ¼"	35 x 2		35 x 4 38 x 5	38 x 6	38 x 7	42.2 x 3.6	42.2 x 4.9	42.2 x 6.4	42.4 x 9.7
1 ½"	42 x 3		42 x 5 50 x 6	50 x 8	50 x 9	48.3 x 3.7	48.3 x 5.1	48.3 x 7.1	48.3 x 10.2
2"				65 x 8	65 x 10	60.3 x 3.9	60.3 x 5.5	60.3 x 8.7	60.3 x 11.1
2 ½"				80 x 10	80 x 12.5	73.0 x 3.9	73.0 x 7.0	73.0 x 9.5	73.0 x 14.0
3"						88.9 x 5.2	88.9 x 7.6	88.9 x 11.1	88.9 x 15.2
3 ½"						101.5 x 5.5	101.5 x 8.1	101.5 x 12.7	
4"						114.3 x 5.7	114.3 x 8.6	114.3 x 13.5	114.3 x 17.1
5"						141.3 x 6.6	141.3 x 9.5	141.3 x 15.9	141.3 x 19.0

Used materials

For every single product group the used material is being indicated.

If several materials are shown, it is on the estimation of the manufacturer what material is used.

Surface protection

As far as there is no special instruction on a product range all flanges are being delivered in blank steel with protection fluid against rust.

Flange kits

As far as required all flange connections can be supplied with bolt set and O-ring.

The designation for order is shown on every product group as a sample.

Used bolts		
SAE flanges	metric bolts	DIN 912-8.8 (ISO 4762-8.8) or DIN 912-10.9 (ISO 4762-10.9)*1)
	UNC bolts :	ASA B 18.3
Square flanges	metric bolts	DIN 931/9 34-8.8 (ISO 4014/4017-8.8) or DIN 931/9 34-10.9 (ISO 4014/4017-10.9)*1)
Cetop flanges	metric bolts	DIN 931/9 34-8.8 (ISO 4014/4017-8.9) or DIN 931/9 34-10.9 (ISO 4014/4017-10.9)*1)
*1) bolts with grade 10.9 are to be used, when the material for the flanges is high tempered!		

Sealings

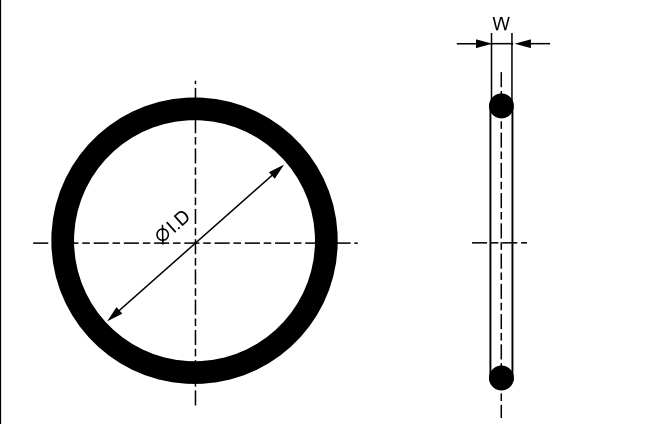
All flange connection in this catalogue are sealing with an O-ring. The O-rings which are supplied by us are out of the following materials.

- Buna 90 shore(standard)
- Viton 85-90 shore(option)

For all SAE flanges and Cetop flanges the O-ring dimensions are according to the following table.

When the O-rings differ from these dimensions, the specific article shows the precise dimension.

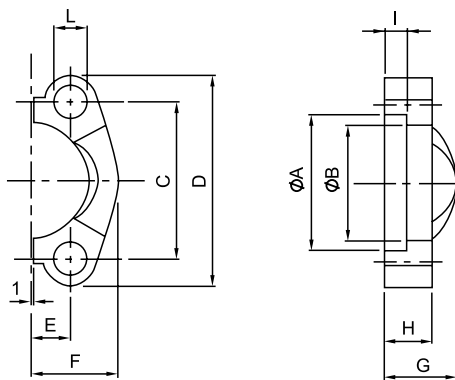
Dimensions of o-ring for SAE-flanges, Cetop-flanges

		Flange size, in	I. D	W
		3/8"	17.1	2.6
		1/2"	18.7	3.5
		3/4"	25.0	3.5
		1"	32.9	3.5
		1 1/4"	37.7	3.5
		1 1/2"	47.2	3.5
		2"	56.8	3.5
		2 1/2"	69.5	3.5
		3"	85.3	3.5
		3 1/2"	98.0	3.5
		4"	110.7	3.5
		5"	136.1	3.5

SAE-split flange halves

SAE - split flange halves

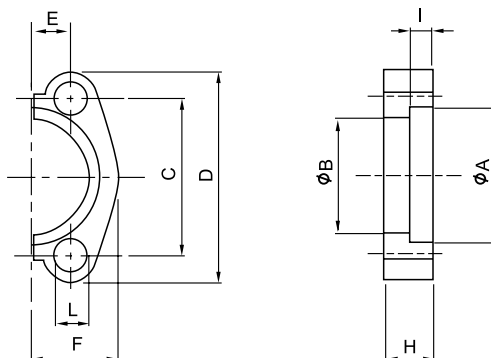
SAFH



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions										screws		Weight kg
			A	B	C	D	E	F	G	H	I	L	metr.	unc	
		Standard Pressure													
350	1/2"	SAEFGC 308	30.96	24.26	38.10	54	8.74	22.8	19	13	6.22	9.0	M 8 x 25	5/16 x 1 1/4	0.07
350	3/4"	SAEFGC 312	38.89	32.13	47.63	65	11.13	25.9	22	14	6.22	11.0	M 10 x 30	3/8 x 1 1/4	0.09
350	1"	SAEFGC 316	45.24	38.48	52.37	70	13.08	29.2	24	16	7.49	11.0	M 10 x 30	3/8 x 1 1/4	0.11
280	1 1/4"	SAEFGC 320	51.59	43.69	58.72	79	15.09	36.3	22	16	7.49	11.5	M 10 x 35	7/16 x 1 1/2	0.15
210	1 1/2"	SAEFGC 324	61.09	50.80	69.85	94	17.86	41.1	25	16	7.49	13.5	M 12 x 35	1/2 x 1 1/2	0.23
210	2"	SAEFGC 332	72.24	62.74	77.77	102	21.44	48.2	26	16	9.02	13.5	M 12 x 35	1/2 x 1 1/2	0.25
175	2 1/2"	SAEFGC 340	84.94	74.93	80.90	114	25.40	54.1	38	19	9.02	13.5	M 12 x 40	1/2 x 1 1/2	0.37
140	3"	SAEFGC 348	102.39	90.93	106.38	135	30.96	65.3	41	22	9.02	17.0	M 16 x 45	5/8 x 2	0.65
35	3 1/2"	SAEFGC 356	115.10	102.36	120.65	152	34.92	69.5	28	22	10.72	17.0	M 16 x 45	5/8 x 2	0.75
35	4"	SAEFGC 364	127.79	115.06	130.18	162	98.88	76.0	35	25	10.72	17.0	M 16 x 50	5/8 x 2	0.84
35	5"	SAEFGC 380	153.19	140.46	152.40	184	46.04	90.0	41	28	10.72	17.0	M 16 x 50	5/8 x 2	1.25
		High Pressure													
420	1/2"	SAEFGC 608	32.54	24.64	40.49	56	9.12	23.6	22	16	7.24	9.0	M 8 x 30	5/16 x 1 1/4	0.08
420	3/4"	SAEFGC 612	42.06	32.51	50.80	71	11.91	30.0	28	19	8.26	11.0	M 10 x 35	3/8 x 1 1/2	0.18
420	1"	SAEFGC 616	48.41	38.86	57.17	81	3.89	34.8	33	24	9.02	12.5	M 12 x 45	7/16 x 1 1/4	0.27
420	1 1/4"	SAEFGC 620	54.76	44.45	66.68	95	15.88	38.6	38	27	9.78	14.5	M 14 x 50	1/2 x 1 3/4	0.40
420	1 1/2"	SAEFGC 624	64.29	51.56	79.38	113	18.26	47.5	43	30	12.07	17.0	M 16 x 55	5/8 x 2	0.68
420	2"	SAEFGC 632	80.16	67.56	96.82	133	22.23	56.9	52	37	12.07	21.0	M 20 x 65	3/4 x 2 1/2	1.05

SAE - split flanges halves - flat

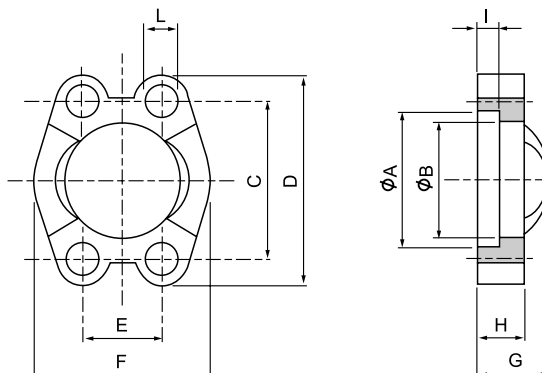
SAHF



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions								Screws		Weight kg
			A	B	C	D	E	F	H	L	metr.	unc	
		Standard Pressure											
350	½"	SAEFGA 308	30.96	24.26	38.10	54	8.74	22.8	13	9.0	M 8x25	5/16 x 1 ¼	0.06
350	¾"	SAEFGA 312	38.89	32.13	47.63	65	11.13	25.9	14	11.0	M 10x30	3/8 x 1 ¼	0.07
350	1"	SAEFGA 316	45.24	38.48	52.37	70	13.08	29.2	16	11.0	M 10x30	3/8 x 1 ¼	0.10
280	1 ¼"	SAEFGA 320	51.59	43.69	58.72	79	15.09	36.6	16	11.5	M 10x35	7/16 x 1 ½	0.15
210	1 ½"	SAEFGA 324	61.09	50.80	69.85	94	17.86	41.1	16	13.5	M 12x35	1/2 x 1 ½	0.18
210	2"	SAEFGA 332	72.24	62.74	77.77	102	21.44	48.2	16	13.5	M 12x35	1/2 x 1 ½	0.22
		High Pressure											
420	½"	SAEFGA 608	32.54	24.64	40.49	56	9.12	23.6	16	9.0	M 8x30	5/16 x 1 ¼	0.08
420	¾"	SAEFGA 612	42.06	32.51	50.80	71	11.91	30.0	20	11.0	M 10x35	3/8 x 1 ½	0.16
420	1"	SAEFGA 616	48.41	38.86	57.15	81	13.89	34.8	25	12.5	M 12x45	7/16 x 1 ¾	0.25
420	1 ¼"	SAEFGA 620	54.76	44.45	66.68	95	15.88	38.6	27	14.5	M 14x45	1/2 x 1 ¾	0.34
420	1 ½"	SAEFGA 624	64.29	51.56	79.38	113	19.26	47.5	30	17.0	M 16x50	5/8 x 2	0.55
420	2"	SAEFGA 632	80.16	67.56	96.82	133	22.23	56.9	37	21.0	M 20x65	¾ x 2 ½	1.02
420	2 ½"	SAEFGA 640	108.90	90.00	123.80	180	29.40	75.08	45	26.0	M 24x75	-	2.05
420	3"	SAEFGA 648	132.50	115.00	152.40	215	35.80	99.08	55	31.0	M 30x90	-	4.30

SAE - flange clamp

SAVH

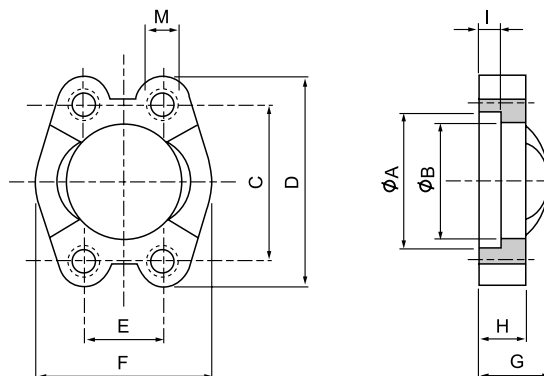


Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions										Screws		Weight kg
			A	B	C	D	E	F	G	H	I	L	metr.	unc	
		Standard Pressure													
350	½"	SAEFGC 308	30.96	24.26	38.10	54	17.48	45.6	19	13	6.22	9.0	M 8 x 25	5/16 x 1 ¼	0.15
350	¾"	SAEFGC 312	38.89	32.13	47.63	65	22.23	51.8	22	14	6.22	11.0	M 10 x 30	3/8 x 1 ¼	0.17
350	1"	SAEFGC 316	45.24	38.48	52.37	70	26.19	58.4	24	16	7.49	11.0	M 10 x 35	3/8 x 1 ¼	0.22
420	1"	SAEFGC 316-62	45.24	38.48	52.37	71	26.19	60.0	26	16	7.49	11.0	M 10 x 45	7/16 x 1 ¾	0.43
280	1 ¼"	SAEFGC 320	51.59	43.69	58.72	79	30.18	72.6	22	16	7.49	11.5	M 12 x 35	7/16 x 1 ½	0.30
420	1 ¼"	SAEFGC 320-62	51.59	43.69	58.72	80	30.18	73.0	33	24	7.49	13.5	M 12 x 45	½ x 1 ¾	0.64
210	1 ½"	SAEFGC 324	61.09	50.80	69.85	94	35.71	82.2	25	16	7.49	13.5	M 12 x 35	½ x 1 ½	0.45
420	1 ½"	SAEFGC 324-62	61.09	50.80	69.85	95	35.71	83.0	37	27	7.49	13.5	M 12 x 50	½ x 1 ¾	0.96
210	2"	SAEFGC 332	72.24	62.74	77.77	102	42.88	96.4	26	16	9.02	13.5	M 12 x 35	½ x 1 ½	0.50
420	2"	SAEFGC 332-62	72.24	62.74	77.77	103	42.88	97.0	43	30	9.02	13.5	M 12 x 50	½ x 1 ¾	1.38
175	2 ½"	SAEFGC 340	84.94	74.93	88.90	114	50.80	108.2	38	19	9.02	13.5	M 12 x 40	½ x 1 ½	0.74
420	2 ½"	SAEFGC 340-62	84.94	74.93	88.90	114	50.80	108.2	49	30	9.02	14.5	M 14 x 50	½ x 1 ¾	1.75
140	3"	SAEFGC 348	102.39	90.93	106.38	135	61.93	130.6	41	22	9.02	17.0	M 16 x 50	5/8 x 2	1.30
35	3 ½"	SAEFGC 356	115.10	102.40	120.65	152	69.85	139.0	28	22	10.72	17.0	M 16 x 50	5/8 x 2	1.50
35	4"	SAEFGC 364	127.79	115.10	130.18	162	77.77	152.0	35	25	10.72	17.0	M 16 x 50	5/8 x 2	1.65
35	5"	SAEFGC 380	153.19	140.50	152.40	184	92.08	180.0	41	28	10.72	17.0	M 16 x 50	5/8 x 2	2.50
		High Pressure													
420	½"	SAEFGC 608	32.54	24.26	40.49	56	18.24	47.2	22	16	7.24	9.0	M 8 x 30	5/16 x 1 ¼	0.16
420	¾"	SAEFGC 612	42.06	32.51	50.80	71	23.80	60.0	28	19	8.26	11.0	M 10 x 35	3/8 x 1 ½	0.35
420	1"	SAEFGC 616	48.41	38.86	57.15	81	27.76	69.9	33	24	9.02	12.5	M 12 x 45	7/16 x 1 ¾	0.53
420	1 ¼"	SAEFGC 620	54.76	44.45	66.68	95	31.75	77.2	38	27	9.78	14.5	M 14 x 50	½ x 1 ¾	0.80
420	1 ½"	SAEFGC 624	64.29	51.56	79.38	113	36.50	95.0	43	30	12.07	17.0	M 16 x 55	5/8 x 2	1.35
420	2"	SAEFGC 632	80.16	67.56	96.82	133	44.45	113.8	52	37	12.07	21.0	M 20 x 65	¾ x 2 ½	2.10
420	2 ½"	SAEFGC 640	108.90	90.00	123.80	180	58.80	190.2	45	45	20.50	26.0	M 24 x 75	-	4.10
420	3"	SAEFGC 648	132.50	115.00	152.40	215	71.60	198.2	55	55	25.50	31.0	M 30 x 90	-	8.60

SAE J 518 C 61/62 Flanges

SAE - flange clamp with tapped holes

SAVFG

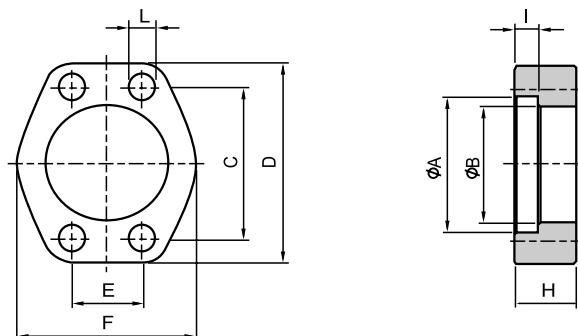


Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions										Weight kg
			A	B	C	D	E	F	G	H	I	M	
		Standard Pressure											
350	½"	SAVFG 308	30.96	24.26	38.10	54	17.48	45.6	19	13	6.22	M 8	0.15
350	¾"	SAVFG 312	38.89	32.13	47.63	65	22.23	51.8	22	14	6.22	M 10	0.17
350	1"	SAVFG 316	45.24	38.48	52.37	70	26.19	58.4	24	16	7.49	M 10	0.22
280	1¼"	SAVFG 320	51.59	43.69	58.72	79	30.18	72.6	22	16	7.49	M 10	0.30
210	1½"	SAVFG 324	61.09	50.80	69.85	94	35.71	82.2	25	16	7.49	M 12	0.45
210	2"	SAVFG 332	72.24	62.74	77.77	102	42.88	96.4	26	16	9.02	M 12	0.50
175	2½"	SAVFG 340	84.94	74.93	88.90	114	50.80	108.2	38	19	9.02	M 12	0.74
140	3"	SAVFG 348	102.39	90.93	106.38	135	61.93	130.6	41	22	9.02	M 16	1.30
35	3½"	SAVFG 356	115.10	102.36	120.65	152	69.85	139.0	28	22	10.72	M 16	1.50
35	4"	SAVFG 364	127.79	115.06	130.18	162	77.77	152.0	35	25	10.72	M 16	1.65
35	5"	SAVFG 380	153.19	140.46	152.40	184	92.08	180.0	41	28	10.72	M 16	2.50
		High Pressure											
420	½"	SAVFG 608	32.54	24.26	40.49	56	18.24	47.2	22	16	7.24	M 8	0.16
420	¾"	SAVFG 612	42.06	32.51	50.80	71	23.80	60.0	28	19	8.26	M 10	0.35
420	1"	SAVFG 616	48.41	38.86	57.15	81	27.76	69.9	33	24	9.02	M 12	0.53
420	1¼"	SAVFG 620	54.76	44.45	66.68	95	31.75	77.2	38	27	9.78	M 14	0.80
420	1½"	SAVFG 624	64.29	51.56	79.38	113	36.50	95.0	43	30	12.07	M 16	1.35
420	2"	SAVFG 632	80.16	67.56	96.82	133	44.45	113.8	52	37	12.07	M 20	2.10
420	2½"	SAVFG 640	108.90	90.00	123.80	180	58.80	190.2	45	45	20.50	M 24	4.10
420	3"	SAVFG 648	132.50	115.00	152.40	215	71.60	198.16	55	55	25.50	M 30	8.60

SAE J 518 C 61/62 Flanges

SAE - flange clamp - flat

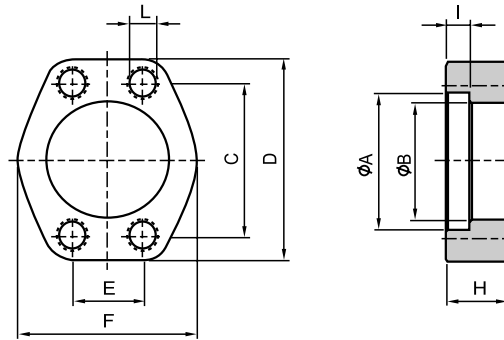
SAEFGA



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg
			A	B	C	D	E	F	H	I	L	Metr.	Unc	
		Standard Pressure												
350	½"	SAEFGA04-61	30.96	24.26	38.10	54	17.48	45.6	20	6.22	9.0	M 8 x 35	5/16 x 1 ¼	0.18
350	¾"	SAEFGA06-61	38.89	32.13	47.63	65	22.23	51.8	20	6.22	11.0	M 10 x 35	3/8 x 1 ¼	0.20
350	1"	SAEFGA08-61	45.24	38.48	52.37	70	26.19	58.4	22	7.49	11.0	M 10 x 35	3/8 x 1 ¼	0.26
420	1"	SAEFGA308-62	45.24	38.48	52.37	71	26.19	60.0	25	7.49	11.0	M 10 x 45	-	0.52
280	1 ¼"	SAEFGA10-61	51.59	43.69	58.72	79	30.18	72.6	22	7.49	11.5	M 12 x 45	7/16 x 1 ½	0.36
420	1 ¼"	SAEFGA310-62	51.59	43.69	58.72	80	30.18	73.0	30	7.49	13.5	M 12 x 50	-	0.77
280	1 ½"	SAEFGA12-61	61.09	50.80	69.85	94	35.71	82.2	25	7.49	13.5	M 12 x 45	½ x 1 ½	0.54
420	1 ½"	SAEFGA312-62	61.09	50.80	69.85	95	35.71	83.0	33	7.49	13.5	M 12 x 60	-	1.15
280	2"	SAEFGA16-61	72.24	62.74	77.77	102	42.88	96.4	30	9.02	13.5	M 12 x 50	½ x 1 ½	0.60
420	2"	SAEFGA316-62	72.24	62.74	77.77	103	42.88	97.0	38	9.02	13.5	M 12 x 70	-	1.66
210	2 ½"	SAEFGA20-61	84.94	74.93	88.90	114	50.80	108.2	36	9.02	13.5	M 12 x 60	½ x 1 ½	0.89
420	2 ½"	SAEFGA320-62	84.94	74.93	88.90	114	50.80	108.2	45	9.02	14.5	M 14 x 75	-	2.10
210	3"	SAEFGA24-61	102.39	90.93	106.38	135	61.93	130.6	41	9.02	17.0	M 16 x 70	5/8 x 2	1.56
160	3 ½"	SAEFGA28-61	115.10	102.36	120.65	152	69.85	139.0	28	10.72	17.0	M 16 x 50	5/8 x 2	1.80
160	4"	SAEFGA32-61	127.79	115.06	130.18	162	77.77	152.0	35	10.72	17.0	M 16 x 60	5/8 x 2	1.98
35	5"	SAEFGA40-61	153.19	140.46	152.40	184	92.08	180.0	41	10.72	17.0	M 16 x 70	5/8 x 2	3.00
		High Pressure												
420	½"	SAEFGA04-62	32.54	24.26	40.49	56	18.24	47.2	22	7.24	9.0	M 8 x 35	5/16 x 1 ¼	0.19
420	¾"	SAEFGA06-62	42.06	32.51	50.80	71	23.80	60.0	23	8.26	11.0	M 10 x 40	3/8 x 1 ½	0.42
420	1"	SAEFGA08-62	48.41	38.86	57.15	81	27.76	69.9	25	9.02	12.5	M 12 x 45	-	0.64
420	1 ¼"	SAEFGA10-62	54.76	44.45	66.68	95	31.75	77.2	30	9.78	14.5	M 14 x 50	½ x 1 ¾	0.96
420	1 ½"	SAEFGA12-62	64.29	51.56	79.38	113	36.50	95.0	33	12.07	17.0	M 16 x 60	5/8 x 2	1.62
420	2"	SAEFGA16-62	80.16	67.56	96.82	133	44.45	113.8	38	12.07	21.0	M 20 x 70	¾ x 2 ½	2.52
420	2 ½"	SAEFGA20-62	108.90	90.00	123.80	180	58.80	190.2	45	20.50	26.0	M 24 x 75	-	4.92
420	3"	SAEFGA24-62	132.50	115.00	152.40	215	71.60	198.2	55	25.50	31.0	M 30 x 90	-	10.32

SAE-flange clamp with tapped holes- flat

SAEFGB

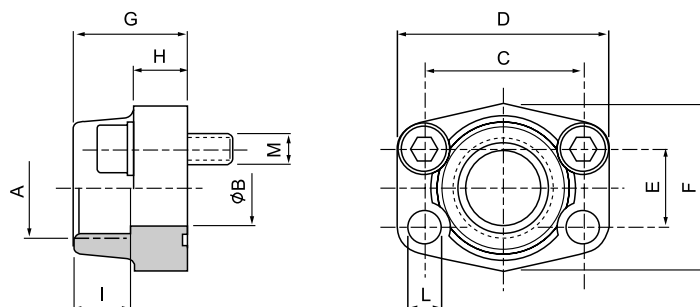


Maximum recommended working prsssure kg/cm²	Nominal flange size, in	Type	Dimensions								Screws		Weight kg
			A	B	C	D	E	F	H	I	M		
											metr.	unc	
		Standard Pressure											
350	½"	SAEFG04-61	30.96	24.26	38.10	54	17.48	45.6	20	6.22	M 8 x 35	⅝" x 1 ¼"	0.18
350	¾"	SAEFG06-61	38.89	32.13	47.63	65	22.23	51.8	20	6.22	M 10 x 35	⅝" x 1 ¼"	0.20
350	1"	SAEFG08-61	45.24	38.48	52.37	70	26.19	58.4	22	7.49	M 10 x 35	⅝" x 1 ¼"	0.26
420	1"	SAEFG308-62	45.24	38.48	52.37	71	26.19	60.0	25	7.49	M 10 x 45	-	0.52
280	1 ¼"	SAEFG10-61	51.59	43.69	58.72	79	30.18	72.6	22	7.49	M 12 x 45	⅞" x 1 ½"	0.36
420	1 ¼"	SAEFG310-62	51.59	43.69	58.72	80	30.18	73.0	30	7.49	M 12 x 50	-	0.77
280	1 ½"	SAEFG12-61	61.09	50.80	69.85	94	35.71	82.2	25	7.49	M 12 x 45	½" x 1 ½"	0.54
420	1 ½"	SAEFG312-62	61.09	50.80	69.85	95	35.71	83.0	33	7.49	M 12 x 60	-	1.15
280	2"	SAEFG16-61	72.24	62.74	77.77	102	42.88	96.4	30	9.02	M 12 x 50	½" x 1 ½"	0.60
420	2"	SAEFG316-62	72.24	62.74	77.77	103	42.88	97.0	38	9.02	M 12 x 70	-	1.66
210	2 ½"	SAEFG20-61	84.94	74.93	88.90	114	50.80	108.2	36	9.02	M 12 x 60	½" x 1 ½"	0.89
420	2 ½"	SAEFG320-62	84.94	74.93	88.90	114	50.80	108.2	45	9.02	M 14 x 75	-	2.10
210	3"	SAEFG24-61	102.39	90.93	106.38	135	61.93	130.6	41	9.02	M 16 x 70	⅝" x 2	1.56
160	3 ½"	SAEFG28-61	115.10	102.36	120.65	152	69.85	139.0	28	10.72	M 16 x 50	⅝" x 2	1.80
160	4"	SAEFG32-61	127.79	115.06	130.18	162	77.77	152.0	35	10.72	M 16 x 60	⅝" x 2	1.98
35	5"	SAEFG40-61	153.19	140.46	152.40	184	92.08	180.0	41	10.72	M 16 x 70	⅝" x 2	3.00
		High Pressure											
420	½"	SAEFG04-62	32.54	24.26	40.49	56	18.24	47.2	22	7.24	M 8 x 35	⅝" x 1 ¼"	0.19
420	¾"	SAEFG06-62	42.06	32.51	50.80	71	23.80	60.0	23	8.26	M 10 x 40	⅝" x 1 ½"	0.42
420	1"	SAEFG08-62	48.41	38.86	57.15	81	27.76	69.9	25	9.02	M 12 x 45	-	0.64
420	1 ¼"	SAEFG10-62	54.76	44.45	66.68	95	31.75	77.2	30	9.78	M 14 x 50	½" x 1 ¾"	0.96
420	1 ½"	SAEFG12-62	64.29	51.56	79.38	113	36.50	95.0	33	12.07	M 16 x 60	⅝" x 2	1.62
420	2"	SAEFG16-62	80.16	67.56	96.82	133	44.45	113.8	38	12.07	M 20 x 70	¾" x 2 ½"	2.52
420	2 ½"	SAEFG20-62	108.90	90.00	123.80	180	58.80	190.2	45	20.50	M 24 x 75	-	4.92
420	3"	SAEFG24-62	132.50	115.00	152.40	215	71.60	198.16	55	25.50	M 30 x 90	-	10.32

SAE J 518 C 61/62 Flanges

SAE - Pipe threaded flange

SAAFS

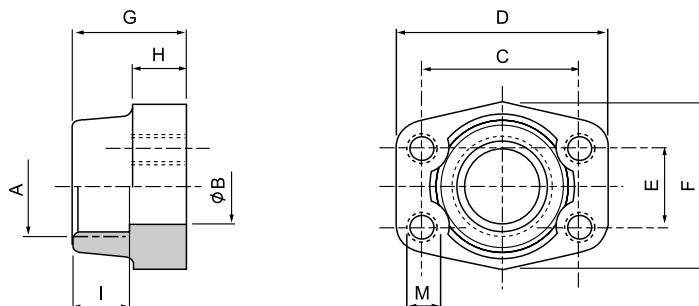


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions										Screws		Weight kg
			A	B	C	D	E	F	G	H	I	L	M		
													metr.	unc	
		Standard Pressure													
350	½"	SAAFS 308-08R	R ½"	13	38.10	54	17.48	46	36	16	19	9.0	M 8 x 30	5/16 x 1 ¼	0.25
350	¾"	SAAFS 312-12R	R ¾"	19	47.63	65	22.23	50	36	18	19	11.0	M 10 x 35	3/8 x 1 ½	0.39
350	1"	SAAFS 316-16R	R 1"	25	52.37	70	26.19	55	38	18	22	11.0	M 10 x 35	3/8 x 1 ½	0.46
280	1 ¼"	SAAFS 320-20R	R 1 ¼"	32	58.72	79	30.18	68	41	21	22	11.5	M 10 x 40	7/16 x 1 ½	0.66
210	1 ½"	SAAFS 324-24R	R 1 ½"	38	69.85	93	35.71	78	45	25	24	13.5	M 12 x 40	½ x 1 ¾	1.05
210	2"	SAAFS 332-32R	R 2"	51	77.77	102	42.88	90	45	25	30	13.5	M 12 x 45	½ x 1 ¾	1.19
175	2 ½"	SAAFS 340-40R	R 2 ½"	63	88.90	114	50.80	105	50	25	30	13.5	M 12 x 45	½ x 1 ¾	1.40
140	3"	SAAFS 348-48R	R 3"	73	106.38	134	61.93	124	50	27	34	17.0	M 16 x 50	5/8 x 2	2.15
35	3 ½"	SAAFS 356-56R	R 3 ½"	89	120.65	152	69.85	136	48	27	34	17.0	M 16 x 51	5/8 x 2	2.40
35	4"	SAAFS 364-64R	R 4"	99	130.18	162	77.77	146	48	27	34	17.0	M 16 x 52	5/8 x 2	2.85
		High Pressure													
420	½"	SAAFS 608-08R	R ½"	13	40.49	54	18.24	46	36	16	19	9.0	M 8 x 30	5/16 x 1 ¼	0.26
420	¾"	SAAFS 612-12R	R ¾"	19	50.80	71	23.80	55	35	21	22	11.0	M 10 x 35	3/8 x 1 ½	0.50
420	1"	SAAFS 616-16R	R 1"	25	57.15	81	27.76	65	42	25	24	12.5	M 12 x 45	7/16 x 1 ¾	0.76
420	1 ¼"	SAAFS 620-20R	R 1 ¼"	32	66.68	95	31.75	78	45	27	25	14.5	M 14 x 45	½ x 1 ¾	1.20
420	1 ½"	SAAFS 624-24R	R 1 ½"	38	79.38	112	36.50	94	50	30	28	17.0	M 16 x 50	5/8 x 2	1.65
420	2"	SAAFS 632-32R	R 2"	51	96.82	134	44.45	114	65	37	30	21.0	M 20 x 65	¾ x 2 ½	2.45

SAE J 518 C 61/62 Flanges

SAE pipe threaded flange - companion

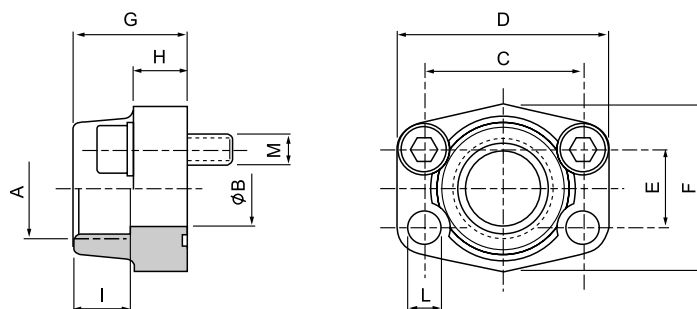
SAGFS



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg
			A	B	C	D	E	F	G	H	I	M		
												metr.	unc	
		Standard Pressure												
350	½"	SAGFS 308-08R	R ½"	13	38.10	54	17.48	46	36	16	19	M 8	⅝ ₁₆	0.25
350	¾"	SAGFS 312-12R	R ¾"	19	47.63	65	22.23	50	36	18	19	M 10	⅜ ₈	0.39
350	1"	SAGFS 316-16R	R 1"	25	52.37	70	26.19	55	38	18	22	M 10	⅜ ₈	0.46
280	1¼"	SAGFS 320-20R	R 1¼"	32	58.72	79	30.18	68	41	21	22	M 10	7 ₁₆	0.66
210	1½"	SAGFS 324-24R	R 1½"	38	69.85	93	35.71	78	45	25	24	M 12	½ ₂	1.05
210	2"	SAGFS 332-32R	R 2"	51	77.77	102	42.88	90	45	25	30	M 12	½ ₂	1.19
175	2½"	SAGFS 340-40R	R 2½"	63	88.90	114	50.80	105	50	25	30	M 12	½ ₂	1.40
140	3"	SAGFS 348-48R	R 3"	73	106.38	134	61.93	124	50	27	34	M 16	⅝ ₈	2.15
35	3½"	SAGFS 356-56R	R 3½"	89	120.65	152	69.85	136	48	27	34	M 16	⅝ ₈	2.40
35	4"	SAGFS 364-64R	R 4"	99	130.18	162	77.77	146	48	27	34	M 16	⅝ ₈	2.85
		High Pressure												
420	½"	SAGFS 608-08R	R ½"	13	40.49	54	18.24	46	36	16	19	M 8	⅝ ₁₆	0.26
420	¾"	SAGFS 612-12R	R ¾"	19	50.80	71	23.80	55	35	21	22	M 10	⅜ ₈	0.50
420	1"	SAGFS 616-16R	R 1"	25	57.15	81	27.76	65	42	25	24	M 12	7 ₁₆	0.76
420	1¼"	SAGFS 620-20R	R 1¼"	32	66.68	95	31.75	78	45	27	25	M 14	½ ₂	1.20
420	1½"	SAGFS 624-24R	R 1½"	38	79.38	112	36.50	94	50	30	28	M 16	⅝ ₈	1.65
420	2"	SAGFS 632-32R	R 2"	51	96.82	134	44.45	114	65	37	30	M 20	¾ ₄	2.45

SAE - NPT threaded flange

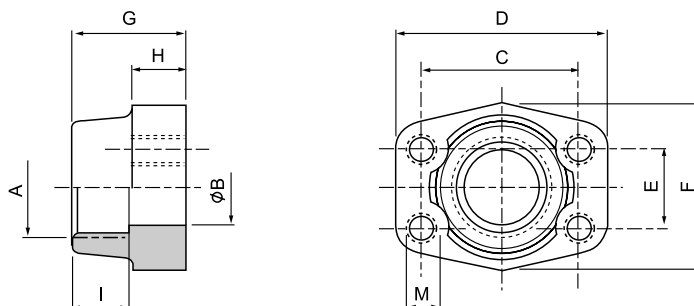
SAAFS - N



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions										Screws		Weight kg	
			A	B	C	D	E	F	G	H	I	L	M			
													metr.	unc		
		Standard Pressure														
350	½"	SAAFS 308-08N	½" NPT	13	38.10	54	17.48	46	36	16	19	9.0	M 8 x 30	⅝" x 1 ¼"	0.25	
350	¾"	SAAFS 312-12N	¾" NPT	19	47.63	65	22.23	50	36	18	19	11.0	M 10 x 35	⅝" x 1 ½"	0.39	
350	1"	SAAFS 316-16N	1" NPT	25	52.37	70	26.19	55	38	18	22	11.0	M 10 x 35	⅝" x 1 ½"	0.46	
280	1 ¼"	SAAFS 320-20N	1 ¼" NPT	32	58.72	79	30.18	68	41	21	22	11.5	M 10 x 40	⅞" x 1 ½"	0.66	
210	1 ½"	SAAFS 324-24N	1 ½" NPT	38	69.85	93	35.71	78	45	25	24	13.5	M 12 x 45	½" x 1 ¾"	1.05	
210	2"	SAAFS 332-32N	2" NPT	51	77.77	102	42.88	90	45	25	30	13.5	M 12 x 45	½" x 1 ¾"	1.19	
175	2 ½"	SAAFS 340-40N	2 ½" NPT	63	88.90	114	50.80	105	50	25	30	13.5	M 12 x 45	½" x 1 ¾"	1.40	
140	3"	SAAFS 348-48N	3" NPT	73	106.38	134	61.93	124	50	27	34	17.0	M 16 x 50	⅝" x 2	2.15	
35	3 ½"	SAAFS 356-56N	2 ½" NPT	89	120.65	152	69.85	136	48	27	34	17.0	M 16 x 50	⅝" x 2	2.40	
35	4"	SAAFS 364-64N	4" NPT	99	130.18	162	77.77	146	48	27	34	17.0	M 16 x 50	⅝" x 2	2.85	
		High Pressure														
420	½"	SAAFS 608-08N	½" NPT	13	40.49	54	18.24	46	36	16	19	9.0	M 8 x 30	⅝" x 1 ¼"	0.26	
420	¾"	SAAFS 612-12N	¾" NPT	19	50.80	71	23.80	55	35	21	22	11.0	M 10 x 35	⅝" x 1 ½"	0.50	
420	1"	SAAFS 616-16N	1" NPT	25	57.15	81	27.76	65	42	25	24	12.5	M 12 x 45	⅞" x 1 ¾"	0.76	
420	1 ¼"	SAAFS 620-20N	1 ¼" NPT	32	66.68	95	31.75	78	45	27	25	15.0	M 14 x 45	½" x 1 ¾"	1.20	
420	1 ½"	SAAFS 624-24N	1 ½" NPT	38	79.38	112	36.50	94	50	30	28	17.0	M 16 x 50	⅝" x 2	1.65	
420	2"	SAAFS 632-32N	2" NPT	51	96.82	134	44.45	114	65	37	30	21.0	M 20 x 65	¾" x 2 ½"	2.45	

SAE - NPT threaded flange - companion

SAGFS - N

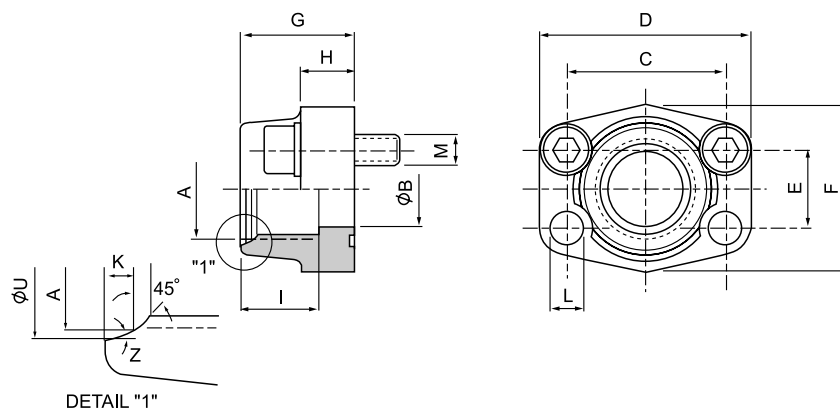


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg
			A	B	C	D	E	F	G	H	I	M		
												metr.	unc	
		Standard Pressure												
350	½"	SAGFS 308-08N	½" NPT	13	38.10	54	17.48	46	36	16	19	M 8	5/16"	0.25
350	¾"	SAGFS 312-12N	¾" NPT	19	47.63	65	22.23	50	36	18	19	M 10	3/8"	0.39
350	1"	SAGFS 316-16N	1" NPT	25	52.37	70	26.19	55	38	18	22	M 10	3/8"	0.46
280	1 ¼"	SAGFS 320-20N	1 ¼" NPT	32	58.72	79	30.18	68	41	21	22	M 10	7/16"	0.66
210	1 ½"	SAGFS 324-24N	1 ½" NPT	38	69.85	93	35.71	78	45	25	24	M 12	½"	1.05
210	2"	SAGFS 332-32N	2" NPT	51	77.77	102	42.88	90	45	25	30	M 12	½"	1.19
175	2 ½"	SAGFS 340-40N	2 ½" NPT	63	88.90	114	50.80	105	50	25	30	M 12	½"	1.40
140	3"	SAGFS 348-48N	3" NPT	73	106.38	134	61.93	124	50	27	34	M 16	5/8"	2.15
35	3 ½"	SAGFS 356-56N	2 ½" NPT	89	120.65	152	69.85	136	48	27	34	M 16	5/8"	2.40
35	4"	SAGFS 364-64N	4" NPT	99	130.18	162	77.77	146	48	27	34	M 16	5/8"	2.85
		High Pressure												
420	½"	GFS 608-08N	½" NPT	13	40.49	54	18.24	46	36	16	19	M 8	5/16"	0.26
420	¾"	AFS 612-12N	¾" NPT	19	50.80	71	23.80	55	35	21	22	M 10	3/8"	0.50
420	1"	AFS 616-16N	1" NPT	25	57.15	81	27.76	65	42	25	24	M 12	7/16"	0.76
420	1 ¼"	GFS 620-20N	1 ¼" NPT	32	66.68	95	31.75	78	45	27	25	M 14	½"	1.20
420	1 ½"	GFS 624-24N	1 ½" NPT	38	79.38	112	36.50	94	50	30	28	M 16	5/8"	1.65
420	2"	GFS 632-32N	2" NPT	51	96.82	134	44.45	114	65	37	30	M 20	¾"	2.45

SAE J 518 C 61/62 Flanges

SAE - UN - threaded flange

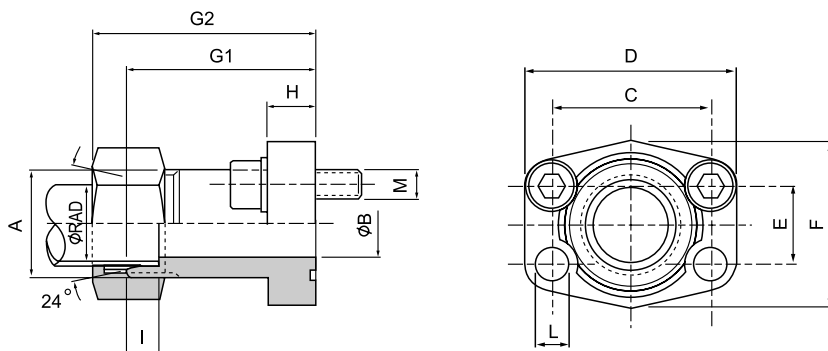
SAAFS - U



Maximum recommended working prssure kg/cm ²	Nominal flange size, in	Type	Dimensions														Screws		Weight kg
			A	B	C	D	E	F	G	H	I	L	U	E	Z	M			
																metr.	unc		
		Standard Pressure																	
350	½"	SAAFS 308-08U	¾"-16UNF	13	38.10	54	17.48	46	36	16	17	9.0	20.6	2.5	15°	M 8 x 30	5/16 x 1 ¼	0.25	
350	¾"	SAAFS 312-12U	1 ⅛"-12UN	19	47.63	65	22.23	50	36	18	23	11.0	29.2	3.3	15°	M 10 x 35	⅜ x 1 ½	0.39	
350	1"	SAAFS 316-16U	1 ⅝"-12UN	25	52.37	70	26.19	55	38	18	23	11.0	35.5	3.3	15°	M 10 x 35	⅜ x 1 ½	0.46	
280	1 ¼"	SAAFS 320-20U	1 ⅝"-12UN	32	58.72	79	30.18	68	42	21	23	11.5	43.5	3.3	15°	M 10 x 40	7/16 x 1 ½	0.66	
210	1 ½"	SAAFS 324-24U	1 ⅞"-12UN	38	69.85	93	35.71	78	45	25	23	13.5	49.8	3.3	15°	M 12 x 45	½ x 1 ¾	1.05	
		High Pressure																	
420	½"	SAAFS 608-08U	¾"-16UNF	13	40.49	54	18.24	46	36	16	17	9.0	20.6	2.5	15°	M 8 x 30	5/16 x 1 ¼	0.26	
420	¾"	SAAFS 612-12U	1 ⅛"-12UN	19	50.80	71	23.80	55	35	21	23	11.0	29.3	3.3	15°	M 10 x 35	⅜ x 1 ½	0.50	
420	1"	SAAFS 616-16U	1 ⅝"-12UN	25	57.15	81	27.76	65	42	25	23	12.5	35.5	3.3	15°	M 12 x 45	7/16 x 1 ¾	0.76	
420	1 ¼"	SAAFS 620-20U	1 ⅝"-12UN	32	66.68	95	31.75	78	45	27	23	14.5	43.5	3.3	15°	M 14 x 45	½ x 1 ¾	1.20	
420	1 ½"	SAAFS 624-24U	1 ⅞"-12UN	38	79.38	112	36.50	94	50	30	23	17.0	49.8	3.3	15°	M 16 x 50	⅝ x 2	1.65	

SAE - metric threaded flange DIN 3901/3902

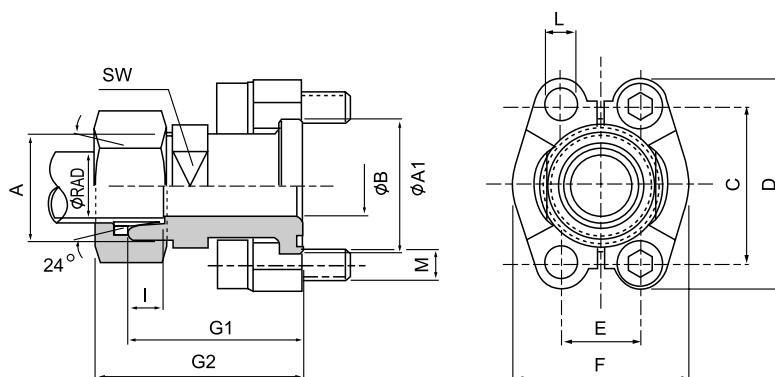
SAAFG



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions											Screws		Weight kg	
			A	B	C	D	E	F	G1	G2	H	I	L	M			
														metr.	unc		
		Standard Pressure															
315	½"	SAAFG 308-15L	M 22 x 1.5	12	38.10	54	17.48	46	52	60	13	7.0	9.0	M 8 x 30	5/16 x 1 ¼	0.25	
160	¾"	SAAFG 312-22L	M 30 x 2	19	47.63	65	22.23	50	60	69	14	7.5	11.0	M 10 x 30	3/8 x 1 ¼	0.35	
350	¾"	SAAFG 312-20S	M 30 x 2	16	47.63	65	22.23	50	60	73	14	10.5	11.0	M 10 x 30	3/8 x 1 ¼	0.36	
160	1"	SAAFG 316-22L	M 30 x 2	19	52.37	70	26.19	55	63	72	16	7.5	11.0	M 10 x 30	3/8 x 1 ¼	0.44	
160	1"	SAAFG 316-28L	M 36 x 2	24	52.37	70	26.19	55	63	72	16	7.5	11.0	M 10 x 30	3/8 x 1 ¼	0.50	
350	1"	SAAFG 316-20S	M 30 x 2	16	52.37	70	26.19	55	63	76	16	10.5	11.0	M 10 x 30	3/8 x 1 ¼	0.46	
350	1"	SAAFG 316-25S	M 36 x 2	20	52.37	70	26.19	55	63	75	14	12.0	11.0	M 10 x 30	3/8 x 1 ¼	0.52	
160	1 ¼"	SAAFG 320-28L	M 36 x 2	24	58.72	79	30.18	68	65	74	14	7.5	11.5	M 10 x 35	7/16 x 1 ½	0.68	
160	1 ¼"	SAAFG 320-35L	M 45 x 2	29	58.72	79	30.18	68	65	76	14	10.5	11.5	M 10 x 35	7/16 x 1 ½	0.72	
280	1 ¼"	SAAFG 320-30S	M 42 x 2	25	58.72	81	30.18	68	65	78	14	13.0	11.5	M 10 x 35	7/16 x 1 ½	0.70	
160	1 ½"	SAAFG 324-40L	M 52 x 2	36	69.85	94	35.71	78	70	82	16	11.0	13.5	M 12 x 35	½ x 1 ½	1.00	
210	1 ½"	SAAFG 327-38S	M 52 x 2	32	69.85	94	35.71	78	70	82	16	10.0	13.5	M 12 x 35	½ x 1 ½	1.02	
		High Pressure															
420	½"	SAAFG 608-16S	M 24 x 1.5	12	40.49	56	18.24	48	60	70	16	8.5	9.0	M 8 x 30	5/16 x 1 ¼	0.30	
420	¾"	SAAFG 612-25S	M 36 x 2	19	50.80	71	23.80	60	73	85	19	12.0	11.0	M 10 x 35	3/8 x 1 ½	0.68	
420	1"	SAAFG 616-30S	M 42 x 2	25	57.15	81	27.76	70	82	95	24	13.5	12.5	M 12 x 45	7/16 x 1 ¾	1.00	
420	1 ¼"	SAAFG 620-38S	M 52 x 2	29	66.68	95	31.75	78	92	107	27	16.0	14.5	M 14 x 50	½ x 1 ¾	1.60	
420	1 ¼"	SAAFG 620-30S	M 42 x 2	25	66.68	95	31.75	78	92	106	27	13.5	14.5	M 14 x 50	½ x 1 ¾	1.54	
420	1 ½"	SAAFG 624-38S	M 52 x 2	32	79.38	113	36.50	95	96	111	30	16.0	17.0	M 16 x 50	5/8 x 2	2.20	

SAE - DIN 2353 connection flange DIN 3901/3902

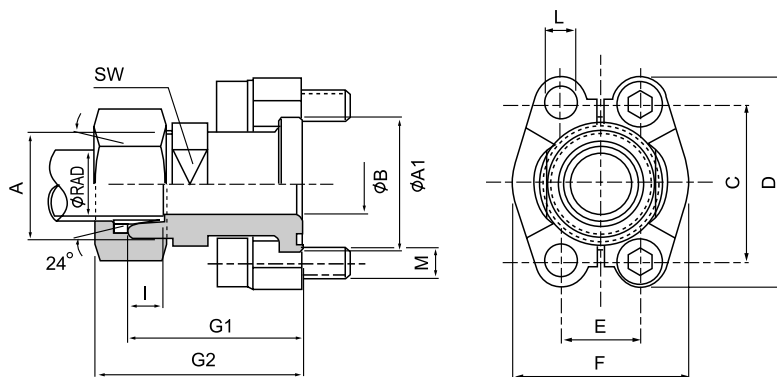
SASFCE



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions												Screws		Weight kg
			A	B	C	D	E	F	G ₁	G ₂	I	L	SW	M			
														metr.	unc		
		Standard Pressure															
315	½"	SASFCE 308-15L	M 22 x 1.5	30.2	38.10	54	17.48	45.6	48.2	56	7.0	9.0	24	M 8 x 25	⅝ x 1¼	0.29	
350	½"	SASFCE 308-16S	M 24 x 1.5	30.2	38.10	54	17.48	45.6	50.2	60	8.5	9.0	24	M 8 x 25	⅝ x 1¼	0.32	
315	¾"	SASFCE 312-18L	M 26 x 1.5	38.1	47.63	65	22.23	51.8	53.2	62	7.5	11.0	30	M 10 x 30	⅝ x 1½	0.55	
160	¾"	SASFCE 312-22L	M 30 x 2	38.1	47.63	65	22.23	51.8	53.2	62	7.5	11.0	30	M 10 x 30	⅝ x 1½	0.56	
160	¾"	SASFCE 312-28L	M 36 x 2	38.1	47.63	65	22.23	51.8	53.2	62	7.5	11.0	30	M 10 x 30	⅝ x 1½	0.75	
350	¾"	SASFCE 312-20S	M 30 x 2	38.1	47.63	65	22.23	51.8	57.2	68	11.0	11.0	30	M 10 x 30	⅝ x 1½	0.63	
350	¾"	SASFCE 316-25S	M 36 x 2	38.1	47.63	65	22.23	51.8	57.2	69	12.0	11.0	30	M 10 x 30	⅝ x 1½	0.76	
160	1"	SASFCE 316-28L	M 36 x 2	44.4	52.37	70	26.19	58.4	54.2	65	7.5	11.0	36	M 10 x 30	⅝ x 1½	0.69	
350	1"	SASFCE 316-25S	M 36 x 2	44.4	52.37	70	26.19	58.4	58.2	70	12.0	11.0	36	M 10 x 30	⅝ x 1½	0.78	
350	1"	SASFCE 316-30S	M 42 x 2	44.4	52.37	70	26.19	58.4	63.2	76	14.0	11.0	36	M 10 x 30	⅝ x 1½	0.91	
160	1¼"	SASFCE 320-28L	M 36 x 2	50.8	58.72	79	30.18	72.6	58.6	67	7.5	11.5	36	M 10 x 40	⅞ x 1½	1.05	
160	1¼"	SASFCE 320-35L	M 45 x 2	50.8	58.72	79	30.18	72.6	58.2	69	11.0	11.5	41	M 10 x 40	⅞ x 1½	1.10	
280	1½"	SASFCE 320-25S	M 36 x 2	50.8	58.72	79	30.18	72.6	60.2	72	12.0	11.5	41	M 10 x 40	⅞ x 1½	1.17	
280	1¼"	SASFCE 320-30S	M 42 x 2	50.8	58.72	79	30.18	72.6	62.2	75	14.0	11.5	41	M 10 x 40	⅞ x 1½	1.19	
280	1¼"	SASFCE 320-38S	M 52 x 2	50.8	58.72	79	30.18	72.6	66.6	81	16.0	11.5	46	M 10 x 40	⅞ x 1½	1.39	
160	1½"	SASFCE 324-42L	M 52 x 2	60.3	69.85	94	35.71	82.2	64.2	76	11.0	13.5	46	M 12 x 35	½ x 1½	1.34	
210	1½"	SASFCE 324-38S	M 52 x 2	60.3	69.85	94	35.71	82.2	70.2	85	16.0	13.5	46	M 12 x 35	½ x 1½	1.50	

SAE - DIN 2353 connection flange DIN 3901/3902

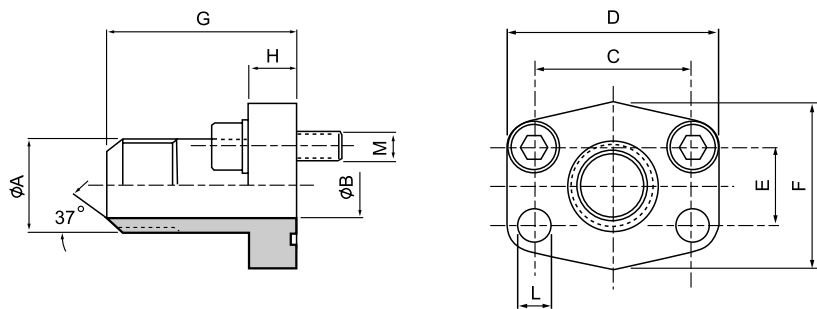
SASFCE



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions													Screws	
			A	A ₁	B	C	D	E	F	G ₁	G ₂	I	L	SW	M		
															metr.	unc	
		High Pressure															
400	½"	SASFCE 608-16S	M 24 x 1.5	32	12	40.49	56	18.24	47	53	63	8.5	9.0	24	M 8 x 25	⅝ x 1 ¼	
400	¾"	SASFCE 612-16S	M 24 x 1.5	41	12	50.80	71	23.80	60	59	69	8.5	11.1	30	M 10 x 35	⅜ x 1 ½	
400	¾"	SASFCE 612-20S	M 30 x 2	41	16	50.80	71	23.80	60	61	72	11.0	11.0	30	M 10 x 35	⅜ x 1 ½	
400	¾"	SASFCE 612-25S	M 36 x 2	41	17	50.80	71	23.80	60	63	75	12.0	11.0	30	M 10 x 35	⅜ x 1 ½	
400	¾"	SASFCE 612-30S	M 42 x 2	41	18	50.80	71	23.80	60	64	77	14.0	11.0	36	M 10 x 35	⅜ x 1 ½	
400	1"	SASFCE 616-25S	M 36 x 2	48	20	57.15	81	27.76	70	72	84	12.0	12.5	41	M 12 x 45	⅜ x 1 ¾	
400	1"	SASFCE 616-30S	M 42 x 2	48	24	57.15	81	27.75	70	74	87	14.0	12.5	41	M 12 x 45	⅜ x 1 ¾	
400	1 ¼"	SASFCE 620-30S	M 42 x 2	54	20/30	66.68	95	31.75	77	79	92	14.0	14.5	41	M 14 x 50	½ x 1 ¾	
400	1 ¼"	SASFCE 620-38S	M 52 x 2	54	30	66.68	95	31.75	77	83	98	16.0	14.5	46	M 14 x 50	½ x 1 ¾	
400	1 ½"	SASFCE 624-38S	M 52 x 2	64	30	79.38	113	36.50	95	89	104	16.0	17.0	46	M 16 x 55	⅝ x 2	

SAE - JIC 37° flared connection

SAAFG - J

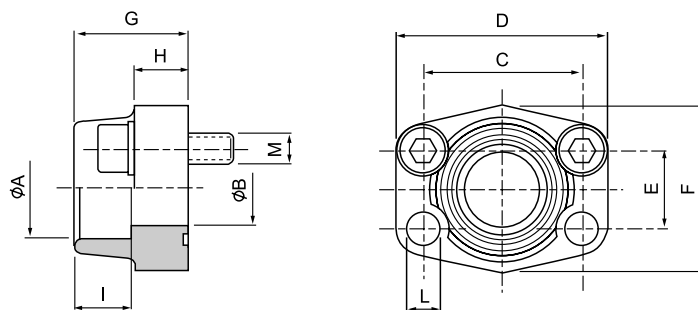


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions										Screws		Weight kg
			A	B	C	D	E	F	G	H	L	M			
												metr.	unc		
		Standard Pressure													
350	½"	SAAFG 308-08J	¾"-16 JIC	9.9	38.10	54	17.48	46	52	13	9.0	M 8 x 30	5/16 x 1 ¼	0.25	
350	½"	SAAFG 308-10J	⅞"-14 JIC	12.3	38.10	54	17.48	46	52	13	9.0	M 8 x 30	⅝ x 1 ½	0.30	
350	¾"	SAAFG 312-12J	1 ⅛"-12 JIC	15.5	47.63	65	22.23	50	60	14	11.0	M 10 x 30	⅜ x 1 ¼	0.35	
350	1"	SAAFG 316-16J	1 ⅝"-12 JIC	21.5	52.37	70	26.19	55	63	16	11.0	M 10 x 30	⅜ x 1 ¼	0.50	
280	1 ¼"	SAAFG 320-20J	1 ⅞"-12 JIC	27.5	58.72	79	30.18	68	65	14	11.5	M 10 x 30	⅞ x 1 ½	0.70	
280	1 ¼"	SAAFG 320-16J	1 ⅝"-12 JIC	21.5	58.72	79	30.18	68	65	14	11.5	M 10 x 30	⅞ x 1 ½	0.70	
210	1 ½"	SAAFG 324-24J	1 ⅞"-12 JIC	33.0	69.85	94	35.71	78	70	16	13.5	M 12 x 35	½ x 1 ½	1.00	
		High Pressure													
420	½"	SAAFG 608-08J	¾"-16 JIC	9.9	40.49	56	18.24	48	60	16	9.0	M 8 x 30	5/16 x 1 ¼	0.30	
420	½"	SAAFG 608-10J	⅞"-14 JIC	12.3	40.49	56	18.24	48	60	16	9.0	M 8 x 30	5/16 x 1 ¼	0.40	
420	¾"	SAAFG 612-12J	1 ⅛"-12 JIC	15.5	50.80	71	23.80	60	73	19	11.0	M 10 x 35	⅜ x 1 ½	0.70	
420	1"	SAAFG 616-16J	1 ⅝"-12 JIC	21.5	57.15	81	27.76	70	82	24	12.5	M 12 x 45	⅞ x 1 ¾	1.00	
420	1 ¼"	SAAFG 620-20J	1 ⅞"-12 JIC	27.5	66.68	95	31.75	78	92	27	14.5	M 14 x 45	½ x 1 ¾	1.50	
420	1 ¼"	SAAFG 620-16J	1 ⅝"-12 JIC	21.5	66.68	95	31.75	78	92	27	14.5	M 14 x 45	½ x 1 ¾	1.50	
420	1 ½"	SAAFG 624-24J	1 ⅞"-12 JIC	33.0	79.38	113	36.50	95	96	30	17.0	M 16 x 50	⅝ x 2	2.30	

SAE J 518 C 61/62 Flanges

SAE - socket weld flange

SAAFS - SW

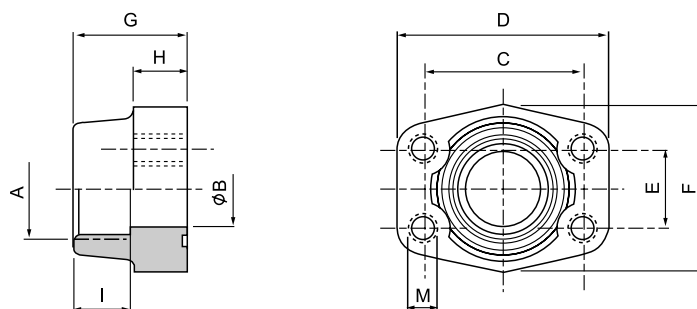


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions										Screws		Weight kg	
			A	B	C	D	E	F	G	H	I	L	M			
													metr.	unc		
		Standard Pressure														
350	½"	SAAFS 308-08 SW	21.6	13	38.10	54	17.48	46	36	16	19	9.0	M 8 x 30	⅝ x 1 ¼		0.25
350	¾"	SAAFS 312-12 SW	27.2	19	47.63	65	22.23	50	36	18	19	11.0	M 10 x 35	⅝ x 1 ½		0.39
350	1"	SAAFS 316-16 SW	34.0	25	52.37	70	26.19	55	38	18	19	11.0	M 10 x 35	⅝ x 1 ½		0.46
280	1 ¼"	SAAFS 320-20 SW	42.8	32	58.72	79	30.18	68	41	21	22	11.5	M 10 x 40	⅞ x 1 ½		0.66
210	1 ½"	SAAFS 324-24 SW	48.6	38	69.85	93	35.71	78	45	25	24	13.5	M 12 x 45	½ x 1 ¾		1.05
210	2"	SAAFS 332-32 SW	61.0	51	77.77	102	42.88	90	45	25	26	13.5	M 12 x 45	½ x 1 ¾		1.19
175	2 ½"	SAAFS 340-40 SW	73.5	63	88.90	114	50.80	105	50	25	30	13.5	M 12 x 45	½ x 1 ¾		1.40
140	3"	SAAFS 348-48 SW	90.5	76	106.38	134	61.93	124	50	27	34	17.0	M 16 x 50	⅝ x 2		2.15
35	3 ½"	SAAFS 356-56 SW	103.0	89	120.65	152	69.85	136	48	27	34	17.0	M 16 x 50	⅝ x 2		2.40
35	4"	SAAFS 364-64 SW	115.0	102	130.18	162	77.77	146	48	27	34	17.0	M 16 x 50	⅝ x 2		2.85
		High Pressure														
420	½"	SAAFS 608-08 SW	21.6	13	40.49	54	18.24	46	36	16	19	9.0	M 8 x 30	⅝ x 1 ¼		0.26
420	¾"	SAAFS 612-12 SW	27.2	19	50.80	71	23.80	55	35	21	22	11.0	M 10 x 35	⅝ x 1 ½		0.50
420	1"	SAAFS 616-16 SW	34.0	25	57.15	81	27.76	65	42	25	22	12.5	M 12 x 45	⅞ x 1 ¾		0.76
420	1 ¼"	SAAFS 620-20 SW	42.8	32	66.68	95	31.75	78	45	27	25	14.5	M 14 x 45	½ x 1 ¾		1.20
420	1 ½"	SAAFS 624-24 SW	48.6	38	79.38	112	36.50	94	50	30	8	17.0	M 16 x 50	⅝ x 2		1.65
420	2"	SAAFS 632-32 SW	61.0	51	96.82	134	44.45	114	65	37	24	21.0	M 20 x 65	¾ x 2 ½		2.45
420	2 ½"	SAAFS 640-40 SW	73.5	63	123.80	180	58.70	152	80	45	30	26.0	M 24 x 75	-		8.30

SAE J 518 C 61/62 Flanges

SAE - socket weld flange companion

SAGFS - SW

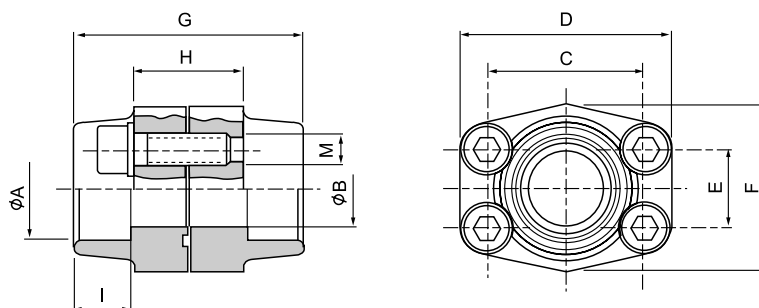


Maximum recommended working prssure kg/cm²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg
			A	B	C	D	E	F	G	H	I	M		
												metr.	unc	
		Standard Pressure												
350	½"	SAGFS 308-08 SW	21.6	13	38.10	54	17.48	46	36	16	19	M 8	5/16	0.25
350	¾"	SAGFS 312-12 SW	27.2	19	47.63	65	22.23	50	36	18	19	M 10	3/8	0.39
350	1"	SAGFS 316-16 SW	34.0	25	52.37	70	26.19	55	38	18	19	M 10	3/8	0.46
280	1 ¼"	SAGFS 320-20 SW	42.8	32	58.72	79	30.18	68	41	21	22	M 10	7/16	0.66
210	1 ½"	SAGFS 324-24 SW	48.6	38	69.85	93	35.71	78	45	25	24	M 12	½	1.05
210	2"	SAGFS 332-32 SW	61.0	51	77.77	102	42.88	90	45	25	26	M 12	½	1.19
175	2 ½"	SAGFS 340-40 SW	73.5	63	88.90	114	50.80	105	50	25	30	M 12	½	1.40
140	3"	SAGFS 348-48 SW	90.5	76	106.38	134	61.93	124	50	27	34	M 16	5/8	2.15
35	3 ½"	SAGFS 356-56 SW	103.0	89	120.65	152	69.85	136	48	27	34	M 16	5/8	2.40
35	4"	SAGFS 364-64 SW	115.0	102	130.18	162	77.77	146	48	27	34	M16	5/8	2.85
		High Pressure												
420	½"	SAGFS 608-08 SW	21.6	13	40.49	54	18.24	46	36	16	19	M 8	5/16 x 1 ¼	0.26
420	¾"	SAGFS 612-12 SW	27.2	19	50.80	71	23.80	55	35	21	22	M 10	3/8 x 1 ½	0.50
420	1"	SAGFS 616-16 SW	34.0	25	57.15	81	27.76	65	42	25	22	M 12	7/16 x 1 ¾	0.76
420	1 ¼"	SAGFS 620-20 SW	42.8	32	66.68	95	31.75	78	45	27	25	M 14	½ x 1 ¾	1.20
420	1 ½"	SAGFS 624-24 SW	48.6	38	79.38	112	36.50	94	50	30	8	M 16	5/8 x 2	1.65
420	2"	SAGFS 632-32 SW	61.0	51	96.82	134	44.45	114	65	37	24	M 20	¾ x 2 ½	2.45
420	2 ½"	SAGFS 640-40 SW	73.5	63	123.80	180	58.70	152	80	45	30	M 24	-	8.30

SAE J 518 C 61/62 Flanges

SAE - socket weld flange

SADFS - SW

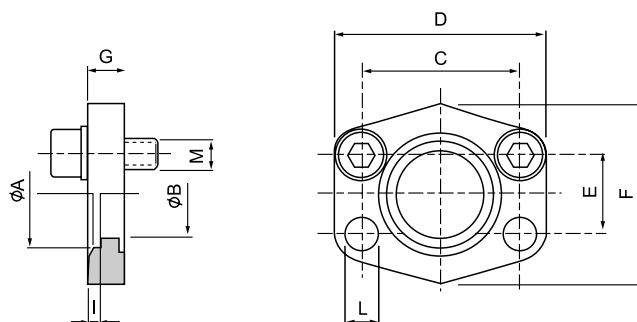


Maximum recommended working prsssre kg/cm ²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg
			A	B	C	D	E	F	G	H	I	M		
												metr.	unc	
		Standard Pressure												
350	½"	SADFS 308-08 SW	21.6	13	38.10	54	17.48	46	72	32	19	M 8 x 30	5/16 x 1 ¼	0.50
350	¾"	SADFS 312-12 SW	27.2	19	47.63	65	22.23	50	72	36	19	M 10 x 35	3/8 x 1 ½	0.78
350	1"	SADFS 316-16 SW	34.0	25	52.37	70	26.19	55	76	36	19	M 10 x 35	3/8 x 1 ½	0.92
280	1 ¼"	SADFS 320-20 SW	42.8	32	58.72	79	30.18	68	82	42	22	M 10 x 40	7/16 x 1 ½	1.32
210	1 ½"	SADFS 324-24 SW	48.6	38	69.85	93	35.71	78	90	50	24	M 12 x 45	½ x 1 ¾	2.10
210	2"	SADFS 332-32 SW	61.0	51	77.77	102	42.88	90	90	50	26	M 12 x 45	½ x 1 ¾	2.38
175	2 ½"	SADFS 340-40 SW	73.5	63	88.90	114	50.80	105	100	50	30	M 12 x 45	½ x 1 ¾	2.80
140	3"	SADFS 348-48 SW	90.5	76	106.38	134	61.93	124	100	54	34	M 16 x 50	5/8 x 2	4.30
35	3 ½"	SADFS 356-56 SW	103.0	89	120.65	152	69.85	136	96	54	34	M 16 x 50	5/8 x 2	4.80
35	4"	SADFS 364-64 SW	115.0	102	130.18	162	77.77	146	96	54	34	M 16 x 50	5/8 x 2	5.70
		High Pressure												
420	½"	SADFS 608-08 SW	21.6	13	40.49	54	18.24	46	72	32	19	M 8 x 30	5/16 x 1 ¼	0.52
420	¾"	SADFS 612-12 SW	27.2	19	50.80	71	23.80	55	70	42	22	M 10 x 35	3/8 x 1 ½	1.00
420	1"	SADFS 616-16 SW	34.0	25	57.15	81	27.76	65	84	50	22	M 12 x 45	7/16 x 1 ¾	1.52
420	1 ¼"	SADFS 620-20 SW	42.8	32	66.68	95	31.75	78	90	54	25	M 14 x 45	½ x 1 ¾	2.40
420	1 ½"	SADFS 624-24 SW	48.6	38	79.38	112	36.50	94	100	60	8	M 16 x 50	5/8 x 2	3.30
420	2"	SADFS 632-32 SW	61.0	51	96.82	134	44.45	114	130	74	24	M 20 x 65	¾ x 2 ½	4.90

SAE J 518 C 61/62 Flanges

SAE - socket weld flange 500 psi

SAAFC - SW

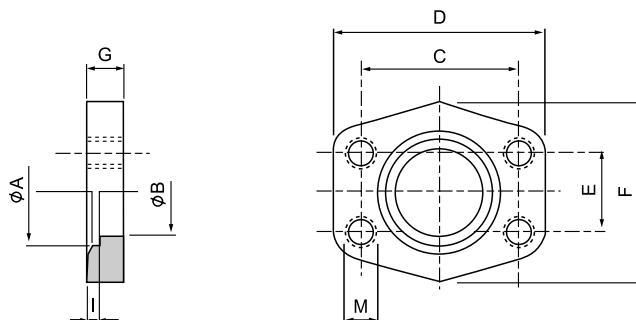


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Nominal pipe size	Dimensions									Screws		Weight kg
				A	B	C	D	E	F	G	I	L	M		
													metr.	unc	
		Standard Pressure													
40	½"	SAAFC 08 SW	21.3 x 3.7	21.6	13	38.10	56	17.48	46	10	3	9.0	M 8 x 25	-	0.12
40	¾"	SAAFC 12 SW	26.7 x 3.9	27.2	19	47.63	65	22.23	50	12	4	11.0	M 10 x 30	-	0.20
40	1"	SAAFC 16 SW	33.4 x 4.5	34.0	25	52.37	70	26.19	55	12	4	11.0	M 10 x 30	-	0.25
40	1¼"	SAAFC 20 SW	42.2 x 4.9	42.8	32	58.72	79	30.18	68	12	4	11.5	M 10 x 30	-	0.31
40	1½"	SAAFC 24 SW	48.3 x 5.1	48.6	38	69.85	93	35.71	78	15	4	13.5	M 12 x 35	-	0.50
40	2"	SAAFC 32 SW	60.3 x 5.5	61.0	51	77.77	102	42.88	90	15	4	13.5	M 12 x 35	-	0.59
40	2½"	SAAFC 40 SW	73.0 x 7.0	73.5	63	88.90	114	50.80	105	15	4	13.5	M 12 x 35	-	0.72
40	3"	SAAFC 48 SW	88.9 x 7.6	90.5	76	106.38	134	61.93	124	20	5	17.0	M 16 x 40	-	1.25
40	3½"	SAAFC 56 SW	101.5 x 8.1	103.5	89	120.65	152	69.85	136	20	5	17.0	M 16 x 40	-	1.50
40	4"	SAAFC 64 SW	114.3 x 8.6	115.0	102	130.18	162	77.77	146	25	6	17.0	M 16 x 45	-	2.15
40	5"	SAAFC 80 SW	141.3 x 9.5	143.0	127	152.40	190	92.08	170	28	8	17.0	M 16 x 45	-	3.00

SAE J 518 C 61/62 Flanges

SAE - socket weld flange 500 psi - companion

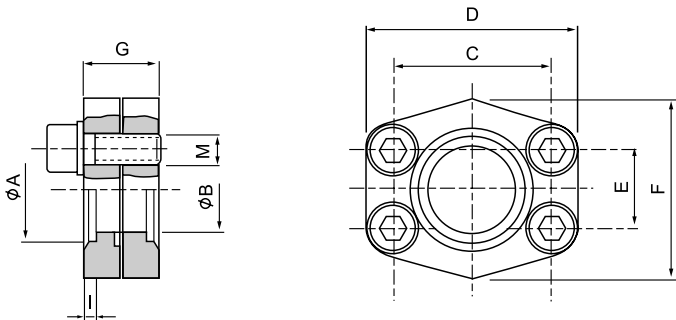
SAGFC - SW



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Nominal pipe size	Dimensions								Screws	Weight kg
				A	B	C	D	E	F	G	I	M	
		Standard Pressure											
40	½"	SAGFC 08 SW	21.3 x 3.7	21.6	13	38.10	56	17.48	46	10	3	M 8	0.12
40	¾"	SAGFC 12 SW	26.7 x 3.9	27.2	19	47.63	65	22.23	50	12	4	M 10	0.20
40	1"	SAGFC 16 SW	33.4 x 4.5	34.0	25	52.37	70	26.19	55	12	4	M 10	0.25
40	1 ¼"	SAGFC 20 SW	42.2 x 4.9	42.8	32	58.72	79	30.18	68	12	4	M 10	0.31
40	1 ½"	SAGFC 24 SW	48.3 x 5.1	48.6	38	69.85	93	35.71	78	15	4	M 12	0.50
40	2"	SAGFC 32 SW	60.3 x 5.5	61.0	51	77.77	102	42.88	90	15	4	M 12	0.59
40	2 ½"	SAGFC 40 SW	73.0 x 7.0	73.5	63	88.90	114	50.80	105	15	4	M 12	0.72
40	3"	SAGFC 48 SW	88.9 x 7.6	90.5	76	106.38	134	61.93	124	20	5	M 16	1.25
40	3 ½"	SAGFC 56 SW	101.5 x 8.1	103.0	89	120.65	152	69.85	136	20	5	M 16	1.50
40	4"	SAGFC 64 SW	114.3 x 8.6	115.0	102	130.18	162	77.77	146	25	6	M 16	2.15
40	5"	SAGFC 80 SW	141.3 x 9.5	143.0	127	152.40	190	92.08	170	28	8	M 16	3.00

SAE - socket weld flange 500 psi - companion

SADFC - SW

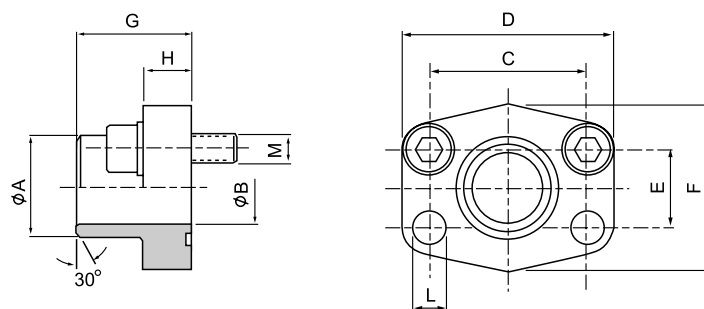


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Nominal pipe size	Dimensions								Screws	Weight kg
				A	B	C	D	E	F	G	I	M	
		Standard Pressure											
40	½"	SADFC 08 SW	21.3 x 3.7	21.6	13	38.10	56	17.48	46	10	3	M 8 x 25	0.24
40	¾"	SADFC 12 SW	26.7 x 3.9	27.2	19	47.63	65	22.23	50	12	4	M 10 x 30	0.40
40	1"	SADFC 16 SW	33.4 x 4.5	34.0	25	52.37	70	26.19	55	12	4	M 10 x 30	0.50
40	1 ¼"	SADFC 20 SW	42.2 x 4.9	42.8	32	58.72	79	30.18	68	12	4	M 10 x 30	0.62
40	1 ½"	SADFC 24 SW	48.3 x 5.1	48.6	38	69.85	93	35.71	78	15	4	M 12 x 35	1.00
40	2"	SADFC 32 SW	60.3 x 5.5	61.0	51	77.77	102	42.88	90	15	4	M 12 x 35	1.18
40	2 ½"	SADFC 40 SW	73.0 x 7.0	73.5	63	88.90	114	50.80	105	15	4	M 12 x 35	1.44
40	3"	SADFC 48 SW	88.9 x 7.6	90.5	76	106.38	134	61.93	124	20	5	M 16 x 40	2.50
40	3 ½"	SADFC 56 SW	101.5 x 8.1	103.0	89	120.65	152	69.85	136	20	5	M 16 x 40	3.00
40	4"	SADFC 64 SW	114.3 x 8.6	115.0	102	130.18	162	77.77	146	25	6	M 16 x 45	4.30
40	5"	SADFC 80 SW	141.3 x 9.5	143.0	127	152.40	190	92.08	170	28	8	M 16 x 45	6.00

SAE J 518 C 61/62 Flanges

SAE - weld on flange

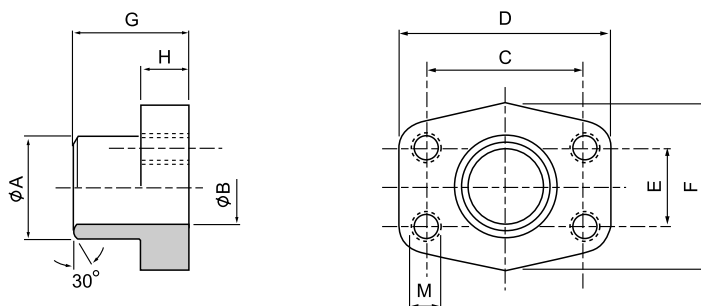
SAAFS - BW



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg	
			A	B	C	D	E	F	G	H	L	M			
												metr.	unc		
		Standard Pressure													
350	½"	SAAFS 308-08 BBW	21.6	14	38.10	54	17.48	46	36	16	9.0	M 8 x 30	⅝" x 1 ¼	0.28	
350	¾"	SAAFS 312-12 BBW	27.2	19	47.63	65	22.23	50	36	18	11.0	M 10 x 35	⅜" x 1 ½	0.39	
350	1"	SAAFS 316-16 BBW	34.0	24	52.37	70	26.19	55	38	18	11.0	M 10 x 35	⅜" x 1 ½	0.46	
280	1 ¼"	SAAFS 320-20 BBW	42.8	32	58.72	79	30.18	68	41	21	11.5	M 10 x 40	7/16" x 1 ½	0.66	
210	1 ½"	SAAFS 324-24 BBW	48.6	38	69.85	93	35.71	78	45	25	13.5	M 12 x 45	½" x 1 ¾	1.05	
210	2"	SAAFS 332-32 BBW	61.0	49	77.77	102	42.88	90	45	25	13.5	M 12 x 45	½" x 1 ¾	1.19	
175	2 ½"	SAAFS 340-40 BBW	73.5	59	88.90	114	50.80	105	50	25	13.5	M 12 x 45	½" x 1 ¾	1.40	
140	3"	SAAFS 348-48 BBW	90.5	74	106.38	134	61.93	124	50	27	17.0	M 16 x 50	⅝" x 2	2.15	
35	3 ½"	SAAFS 356-56 BBW	103.0	85	120.65	152	69.85	136	48	27	17.0	M 16 x 50	⅝" x 2	2.40	
35	4"	SAAFS 364-64 BBW	115.0	97	130.18	162	77.77	146	48	27	17.0	M 16 x 50	⅝" x 2	2.85	
35	5"	SAAFS 380-80 BBW	143.0	120	152.40	184	92.08	180	50	28	17.0	M 16 x 55	⅝" x 2	5.20	
		High Pressure													
420	½"	SAAFS 608-08 CBW	21.6	12	40.49	54	18.24	46	36	16	9.0	M 8 x 30	⅝" x 1 ¼	0.29	
420	¾"	SAAFS 612-12 CBW	27.2	16	50.80	71	23.80	55	35	21	11.0	M10 x 35	⅜" x 1 ½	0.50	
420	1"	SAAFS 616-16 CBW	34.0	21	57.15	79	27.76	68	41	21	12.5	M 12 x 45	7/16" x 1 ¾	0.76	
414	1 ¼"	SAAFS 620-20 CBW	42.8	29	66.68	93	31.75	78	44	25	14.5	M 14 x 45	½" x 1 ¾	1.20	
414	1 ½"	SAAFS 624-24 CBW	48.6	34	79.38	112	36.50	94	55	30	17.0	M 16 x 50	⅝" x 2	1.65	
414	2"	SAAFS 632-32 CBW	61.0	43	96.82	134	44.45	114	65	37	21.0	M 20 x 65	¾" x 2 ½	2.45	
420	2 ½"	SAAFS 640-40 CBW	73.5	54	123.80	180	58.70	152	80	45	26.0	M 24 x 75	-	6.40	

SAE - weld on flange - companion

SAGFS - BW

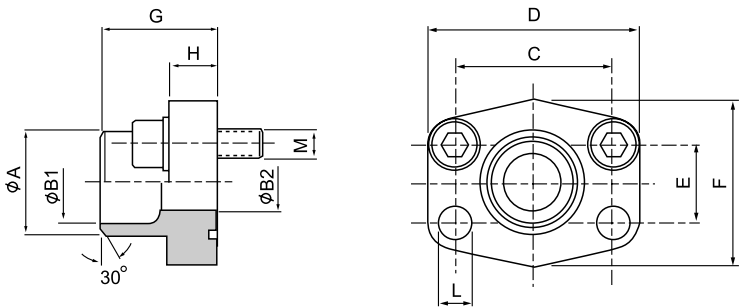


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions								Screws		Weight kg
			A	B	C	D	E	F	G	H	M		
											metr.	unc	
		Standard Pressure											
350	½"	SAGFS 308-08 BBW	21.6	14	38.10	54	17.48	46	36	16	M 8	⅝ ₁₆	0.25
350	¾"	SAGFS 312-12 BBW	27.2	19	47.63	65	22.23	50	36	18	M 10	⅜	0.39
350	1"	SAGFS 316-16 BBW	34.0	24	52.37	70	26.19	55	38	18	M 10	⅜	0.46
280	1¼"	SAGFS 320-20 BBW	42.8	32	58.72	79	30.18	68	41	21	M 10	7/16	0.66
210	1½"	SAGFS 324-24 BBW	48.6	38	69.85	93	35.71	78	45	25	M 12	½	1.05
210	2"	SAGFS 332-32 BBW	61.0	49	77.77	102	42.88	90	45	25	M 12	½	1.19
175	2½"	SAGFS 340-40 BBW	73.5	59	88.90	114	50.80	105	50	25	M 12	½	1.40
140	3"	SAGFS 348-48 BBW	90.5	74	106.38	134	61.93	124	50	27	M 16	⅝ ₈	2.15
35	3½"	SAGFS 356-56 BBW	103.0	85	120.65	152	69.85	136	48	27	M 16	⅝ ₈	2.40
35	4"	SAGFS 364-64 BBW	115.0	97	130.18	162	77.77	146	48	27	M 16	⅝ ₈	2.85
35	5"	SAGFS 380-80 BBW	143.0	122	152.40	184	92.08	180	50	28	M 16	⅝ ₈	5.20
		High Pressure											
420	½"	SAGFS 608-08 CBW	21.5	12	40.49	54	18.24	46	36	16	M 8	⅝ ₁₆	0.26
420	¾"	SAGFS 612-12 CBW	27.2	16	50.80	71	23.80	55	35	21	M 10	⅜	0.50
420	1"	SAGFS 616-16 CBW	34.0	21	57.15	79	27.76	68	41	21	M 12	7/16	0.76
420	1¼"	SAGFS 620-20 CBW	42.8	29	66.68	93	31.75	78	44	25	M 14	½	1.20
420	1½"	SAGFS 624-24 CBW	48.6	34	79.38	112	36.50	94	55	30	M 16	⅝ ₈	1.65
420	2"	SAGFS 632-32 CBW	61.0	43	96.82	134	44.45	114	65	37	M 20	¾	2.45
420	2½"	SAGFS 640-40 CBW	73.5	54	123.80	180	58.70	152	80	45	M 24	-	6.40

SAE J 518 C 61/62 Flanges

SAE - weld on flange - pipe schedule 40.

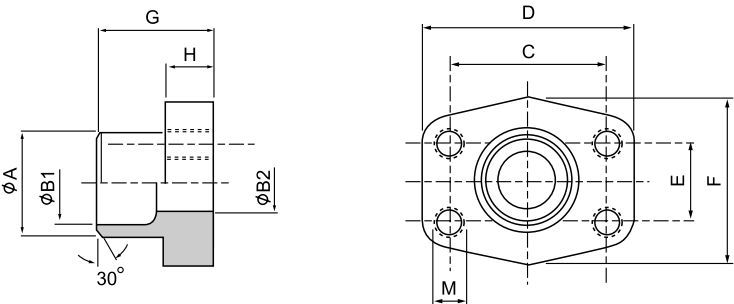
SAAFS - BW



Maximum recommended working prssure kg/cm ²	Nominal flange size, in	Type	Nominal pipe size	Dimensions											Screws		Weight kg
				A	B ₁	B ₂	C	D	E	F	G	H	L	M			
														metr.	unc		
		Standard Pressure															
350	½"	SAAFS 308-08 ABW	21.3 x 2.7	21.6	16	13	38.10	54	17.48	46	35	16	9.0	M 8 x 30	⅝ ₁₆ x 1 ¼	0.28	
350	¾"	SAAFS 312-12 ABW	26.7 x 2.9	27.2	21	19	47.63	65	22.23	50	36	18	11.0	M 10 x 35	⅜ x 1 ½	0.39	
350	1"	SAAFS 316-16 ABW	33.4 x 3.4	34.0	27	25	52.37	70	26.19	55	38	18	11.0	M 10 x 35	⅜ x 1 ½	0.46	
280	1 ¼"	SAAFS 320-20 ABW	42.2 x 3.6	42.8	35	31	58.72	79	30.18	68	41	21	11.5	M 10 x 40	7 ₁₆ x 1 ½	0.66	
210	1 ½"	SAAFS 324-24 ABW	48.3 x 3.7	48.6	41	38	69.85	93	35.71	78	45	24.5	13.5	M 12 x 45	½ x 1 ¾	1.05	
210	2"	SAAFS 332-32 ABW	60.3 x 3.9	61.0	53	51	77.77	102	42.88	90	45	25	13.5	M 12 x 45	½ x 1 ¾	1.19	
175	2 ½"	SAAFS 340-40 ABW	73.0 x 3.9	73.5	65	63	88.90	114	50.80	105	50	25	13.5	M 12 x 45	½ x 1 ¾	1.40	
140	3"	SAAFS 348-48 ABW	88.9 x 5.2	90.5	79	76	106.38	134	61.93	124	51	26	17.0	M 16 x 50	⅝ ₈ x 2	2.15	
35	3 ½"	SAAFS 356-56 ABW	101.5 x 5.5	103.0	91	89	120.65	152	69.85	136	48	26	17.0	M 16 x 50	⅝ ₈ x 2	2.40	
35	4"	SAAFS 364-64 ABW	114.0 x 5.7	115.0	103	102	130.18	162	77.77	146	48	26	17.0	M 16 x 50	⅝ ₈ x 2	2.85	
35	5"	SAAFS 380-80 ABW	141.0 x 6.6	143.0	128	127	152.40	184	92.08	180	50	28	17.0	M 16 x 55	⅝ ₈ x 2	5.00	

SAE - weld on flange - pipe schedule 40 - companion

SAGFS - BW

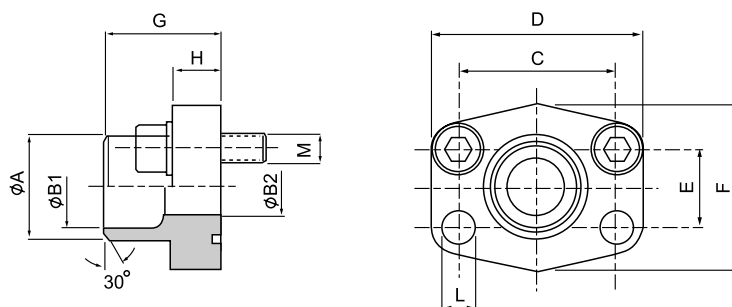


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Nominal pipe size	Dimensions										Screws	Weight kg
				A	B ₁	B ₂	C	D	E	F	G	H	M		
		Standard Pressure													
350	½"	SAGFS 308-08 ABW	21.3 x 2.7	21.6	16	13	38.10	54	17.48	46	35	16	M 8	0.28	
350	¾"	SAGFS 312-12 ABW	26.7 x 2.9	27.2	21	19	47.63	65	22.23	50	36	18	M 10	0.39	
350	1"	SAGFS 316-16 ABW	33.4 x 3.4	34.0	27	25	52.37	70	26.19	55	38	18	M 10	0.46	
280	1¼"	SAGFS 320-20 ABW	42.2 x 3.6	42.8	35	31	58.72	79	30.18	68	41	21	M 10	0.66	
210	1½"	SAGFS 324-24 ABW	48.3 x 3.7	48.6	41	38	69.85	93	35.71	78	45	25	M 12	1.05	
210	2"	SAGFS 332-32 ABW	60.3 x 3.9	61.0	53	51	77.77	102	42.88	90	45	25	M 12	1.19	
175	2½"	SAGFS 340-40 ABW	73.0 x 3.9	73.5	65	63	88.90	114	50.80	105	50	25	M 12	1.40	
140	3"	SAGFS 348-48 ABW	88.9 x 5.2	90.5	79	76	106.38	134	61.93	124	51	26	M 16	2.15	
35	3½"	SAGFS 356-56 ABW	101.5 x 5.5	103.0	91	89	120.65	152	69.85	136	48	26	M 16	2.38	
35	4"	SAGFS 364-64 ABW	114.0 x 5.7	115.0	103	102	130.18	162	77.77	146	48	26	M 16	2.85	
35	5"	SAGFS 380-80 ABW	141.0 x 6.6	143.0	128	127	152.40	184	92.08	180	50	28	M 16	5.00	

SAE J 518 C 61/62 Flanges

SAE - weld on flange - metric tubes

SAAFS - M

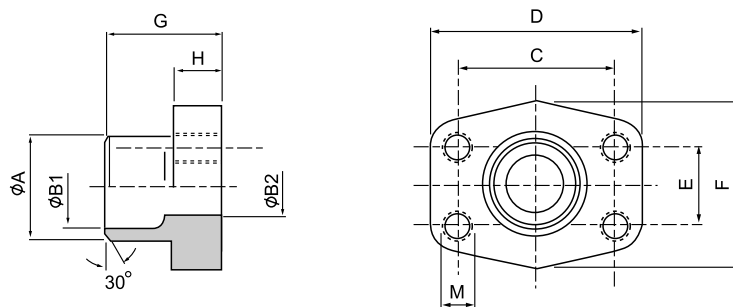


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Tube size	Dimensions										Screws		Weight kg
				A	B ₁	B ₂	C	D	E	F	G	H	L	M		
														metr.	unc	
		Standard Pressure														
350	½"	SAAFS 308-20 M	20 x 3	20	14	14	38.10	54	17.48	46	35	16	9.0	M 8 x 30	⅝ x 1¼	0.28
350	½"	SAAFS 308-22 M	22 x 3	22	16	13	38.10	54	17.48	46	35	16	9.0	M 8 x 30	⅝ x 1¼	0.28
350	¾"	SAAFS 312-25 M	25 x 3	25	19	19	47.63	65	22.23	50	36	18	11.0	M 10 x 35	⅜ x 1½	0.39
350	¾"	SAAFS 312-28 M	28 x 3	28	21.5	19	47.63	65	22.23	50	36	18	11.0	M 10 x 35	⅜ x 1½	0.39
350	1"	SAAFS 316-30 M	30 x 4	30	22	22	52.37	70	26.19	55	38	18	11.0	M 10 x 35	⅜ x 1½	0.46
350	1"	SAAFS 316-35 M	35 x 4	35	27	25	52.37	70	26.19	55	38	18	11.0	M 10 x 40	⅜ x 1½	0.47
280	1¼"	SAAFS 320-38 M	38 x 4	38	30	30	58.72	79	30.18	68	41	21	11.5	M 10 x 40	⅞ x 1½	0.66
280	1¼"	SAAFS 320-42 M	42 x 3	43	36	31	58.72	79	30.18	68	41	21	11.5	M 12 x 45	⅞ x 1½	0.66
210	1½"	SAAFS 324-38 M	38 x 4	38	30	30	69.85	93	35.71	78	45	25	13.5	M 12 x 45	½ x 1¾	1.05
210	1½"	SAAFS 324-42 M	42 x 3	42	36	36	69.85	93	35.71	78	45	25	13.5	M 16 x 50	½ x 1¾	1.05
		High Pressure														
420	½"	SAAFS 608-20 M	20 x 3	20	14	14	40.49	54	18.24	46	34	16	9.0	M 8 x 30	⅝ x 1¼	0.29
420	¾"	SAAFS 612-20 M	20 x 3	20	14	14	50.80	71	23.80	55	35	21	11.0	M 10 x 35	⅜ x 1½	0.50
420	¾"	SAAFS 612-25 M	25 x 4	25	17	17	50.80	71	23.80	55	35	21	11.0	M 10 x 35	⅜ x 1½	0.53
420	1"	SAAFS 616-25 M	25 x 4	25	17	17	57.15	81	27.76	65	42	25	12.5	M 12 x 45	⅞ x 1½	0.76
420	1"	SAAFS 616-30 M	30 x 4	30	22	22	57.15	81	27.76	65	42	25	12.5	M 12 x 45	⅞ x 1½	0.80
420	1¼"	SAAFS 620-30 M	30 x 4	30	22	22	66.68	95	31.75	78	44	25	14.5	M 14 x 45	½ x 1¾	1.20
420	1¼"	SAAFS 620-38 M	38 x 6	38	26	26	66.68	95	31.75	78	44	25	14.5	M 14 x 45	½ x 1¾	1.29
420	1½"	SAAFS 624-38 M	38 x 6	38	26	26	79.38	112	36.50	94	56	28	17.0	M 16 x 50	⅝ x 2	1.52

SAE J 518 C 61/62 Flanges

SAE - weld on flange - metric tubes - companion

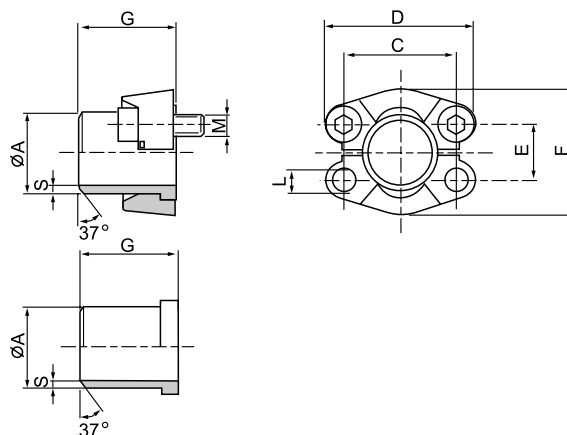
SAGFS - M



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions											Weight kg
				A	B ₁	B ₂	C	D	E	F	G	H	M	
		Standard Pressure												
350	1/2"	SAGFS 308-20 M	20 x 3	20	14	14	38.10	54	17.48	46	35.0	16	M 8	0.28
350	1/2"	SAGFS 308-22 M	22 x 3	22	16	13	38.10	54	17.48	46	35.0	16	M 8	0.28
350	3/4"	SAGFS 312-25 M	25 x 3	25	19	19	47.63	65	22.23	50	36.0	18	M 10	0.39
350	3/4"	SAGFS 312-28 M	28 x 3	28	22	19	47.63	65	22.23	50	36.0	18	M 10	0.39
350	1"	SAGFS 316-30 M	30 x 4	30	22	22	52.37	70	26.19	55	38.0	18	M 10	0.46
350	1"	SAGFS 316-35 M	35 x 4	35	27	25	52.37	70	26.19	55	38.0	18	M 10	0.47
280	1 1/4"	SAGFS 320-38 M	38 x 4	38	30	30	58.72	79	30.18	68	41.0	21	M 10	0.66
280	1 1/4"	SAGFS 320-42 M	42 x 3	43	36	31	58.72	79	30.18	68	41.0	21	M 10	0.66
210	1 1/2"	SAGFS 324-38 M	38 x 4	38	30	30	69.85	93	35.71	78	44.5	25	M 12	1.05
210	1 1/2"	SAGFS 324-42 M	42 x 3	42	36	36	69.85	93	35.71	78	44.5	25	M 12	1.05
		High Pressure												
420	1/2"	SAGFS 608-20 M	20 x 3	20	14	14	40.49	54	18.24	46	34.0	16	M 8	0.29
420	3/4"	SAGFS 612-20 M	20 x 3	20	14	14	50.80	71	23.80	55	35.0	21	M 10	0.50
420	3/4"	SAGFS 612-25 M	25 x 4	25	17	17	50.80	71	23.80	55	35.0	21	M 10	0.53
420	1"	SAGFS 616-25 M	25 x 4	25	17	17	57.15	81	27.76	65	42.0	25	M 12	0.76
420	1"	SAGFS 616-30 M	30 x 4	30	22	22	57.15	81	27.76	65	42.0	25	M 12	0.80
420	1 1/4"	SAGFS 620-30 M	30 x 4	30	22	22	66.68	95	31.75	78	44.0	25	M 12	1.20
420	1 1/4"	SAGFS 620-38 M	38 x 6	38	26	26	66.68	95	31.75	78	44.0	25	M 12	1.29
420	1 1/2"	SAGFS 624-38 M	38 x 6	38	26	26	79.38	112	36.50	94	56.0	28	M 16	1.52

SAE - welding head

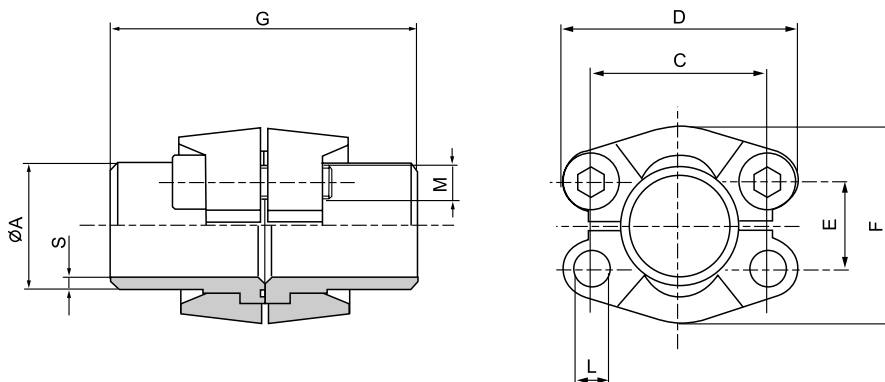
SASFH - BW



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions							Screws		Weight kg
			Pipe size A x S	C	D	E	F	G	L	M		
										metr.	unc	
		Standard Pressure										
350	½"	SASFS 308-08 BW	21.3 x 3.7	38.10	54	17.48	45.6	41	9.0	M 8 x 25	⅝" x 1 ¼"	0.08
350	¾"	SASFS 312-12 BW	26.7 x 3.9	47.63	65	22.23	51.8	50	11.0	M 10 x 30	⅝" x 1 ¼"	0.16
350	1"	SASFS 316-16 BW	33.4 x 4.5	52.37	70	26.19	58.4	50	11.0	M 10 x 30	⅝" x 1 ¼"	0.23
280	1 ¼"	SASFS 320-20 BW	42.2 x 4.9	58.72	79	30.18	72.6	55	11.5	M 10 x 30	⅞" x 1 ½"	0.30
210	1 ½"	SASFS 324-24 BW	48.3 x 5.1	69.85	94	35.71	82.2	57	13.5	M 12 x 35	½" x 1 ½"	0.40
210	2"	SASFS 332-32 BW	60.3 x 5.5	77.77	102	42.88	96.4	57	13.5	M 12 x 35	½" x 1 ½"	0.50
175	2 ½"	SASFS 340-40 BW	73.0 x 7.0	88.90	114	50.80	108.2	58	13.5	M 12 x 40	½" x 1 ¾"	0.80
140	3"	SASFS 348-48 BW	88.9 x 7.6	106.38	135	61.93	130.6	58	17.0	M 16 x 45	⅝" x 2	1.10
35	3 ½"	SASFS 356-56 BW	101.5 x 8.1	120.65	152	69.85	139.0	60	17.0	M 16 x 45	⅝" x 2	1.40
35	4"	SASFS 364-64 BW	114.3 x 8.6	130.18	162	77.77	152.0	60	17.0	M 16 x 50	⅝" x 2	1.75
35	5"	SASFS 380-80 BW	141.3 x 9.5	152.40	184	92.08	180.0	60	17.0	M 16 x 50	⅝" x 2	2.62
		High Pressure										
420	½"	SASFS 608-08 BW	21.3 x 4.7	40.49	56	18.24	47.2	34	9.0	M 8 x 30	⅝" x 1 ¼"	0.08
420	¾"	SASFS 612-12 BW	26.7 x 5.5	50.80	71	23.80	60.0	38	11.0	M 10 x 35	⅝" x 1 ½"	0.17
420	1"	SASFS 616-16 BW	33.4 x 6.4	57.15	81	27.76	69.6	40	12.5	M 12 x 45	⅞" x 1 ¾"	0.25
420	1 ¼"	SASFS 620-20 BW	42.2 x 6.4	66.68	95	31.75	77.2	45	14.5	M 14 x 50	½" x 1 ¾"	0.30
420	1 ½"	SASFS 624-24 BW	48.3 x 7.1	79.38	113	36.50	95.0	50	17.0	M 16 x 55	⅝" x 2	0.53
420	2"	SASFS 632-32 BW	60.3 x 8.7	96.82	133	44.45	113.8	58	21.0	M 20 x 65	¾" x 2 ½"	0.90
420	2 ½"	SASFS 640-40 BW	73.0 x 9.5	123.80	180	58.80	150.2	75	26.0	M 24 x 75	-	2.40
420	3"	SASFS 648-48 BW	88.9 x 11.1	152.40	215	71.60	198.2	80	31.0	M 30 x 90	-	3.60

SAE - welding head - coupling

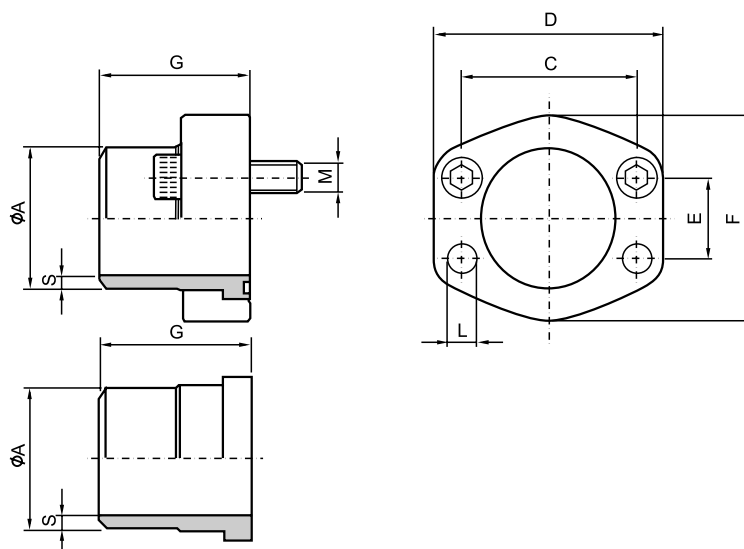
SADFH - BW



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions							Screws		Weight kg
			Pipe size A x S	C	D	E	F	G	L	M		
										metr.	unc	
		Standard Pressure										
350	½"	SADFS 308-08 BW	21.3 x 3.7	38.10	54	17.48	45.6	82	9.0	M 8 x 25	⅝" x 1 ¼"	0.50
350	¾"	SADFS 312-12 BW	26.7 x 3.9	47.63	65	22.23	51.8	100	11.0	M 10 x 30	⅝" x 1 ¼"	0.80
350	1"	SADFS 316-16 BW	33.4 x 4.5	52.37	70	26.19	58.4	100	11.0	M 10 x 30	⅝" x 1 ¼"	1.10
280	1 ¼"	SADFS 320-20 BW	42.2 x 4.9	58.72	79	30.18	72.6	110	11.5	M 10 x 30	⅞" x 1 ½"	1.50
210	1 ½"	SADFS 324-24 BW	48.3 x 5.1	69.85	94	35.71	82.2	114	13.5	M 12 x 35	½" x 1 ½"	2.20
210	2"	SADFS 332-32 BW	60.3 x 5.5	77.77	102	42.88	96.4	114	13.5	M 12 x 35	½" x 1 ½"	2.40
175	2 ½"	SADFS 340-40 BW	73.0 x 7.0	88.90	114	50.80	108.2	116	13.5	M 12 x 40	½" x 1 ¾"	3.50
140	3"	SADFS 348-48 BW	88.9 x 7.6	106.38	135	61.93	130.6	116	17.0	M 16 x 45	⅝" x 2	5.30
35	3 ½"	SADFS 356-56 BW	101.5 x 8.1	120.65	152	69.85	139.0	120	17.0	M 16 x 45	⅝" x 2	5.30
35	4"	SADFS 364-64 BW	114.3 x 8.6	130.18	162	77.77	152.0	120	17.0	M 16 x 50	⅝" x 2	7.50
35	5"	SADFS 380-80 BW	141.3 x 9.5	152.40	184	92.08	180.0	120	17.0	M 16 x 50	⅝" x 2	11.0
		High Pressure										
420	½"	SADFS 608-08 BW	21.3 x 4.7	40.49	56	18.24	47.2	34	9.0	M 8 x 30	⅝" x 1 ¼"	0.08
420	¾"	SADFS 612-12 BW	26.7 x 5.5	50.80	71	23.80	60.0	38	11.0	M 10 x 35	⅝" x 1 ½"	0.17
420	1"	SADFS 616-16 BW	33.4 x 6.4	57.15	81	27.76	69.6	40	12.5	M 12 x 45	⅞" x 1 ¾"	0.25
420	1 ¼"	SADFS 620-20 BW	42.2 x 6.4	66.68	95	31.75	77.2	45	14.5	M 14 x 50	½" x 1 ¾"	0.30
420	1 ½"	SADFS 624-24 BW	48.3 x 7.1	79.38	113	36.50	95.0	50	17.0	M 16 x 55	⅝" x 2	0.53
420	2"	SADFS 632-32 BW	60.3 x 8.7	96.82	133	44.45	113.8	58	21.0	M 20 x 65	¾" x 2 ½"	0.90
420	2 ½"	SADFS 640-40 BW	73.0 x 9.5	123.80	180	58.80	150.2	75	26.0	M 24 x 75	-	2.40
420	3"	SADFS 648-48 BW	88.9 x 11.1	152.40	215	71.60	198.2	80	31.0	M 30 x 90	-	3.60

SAE - Welding neck hub

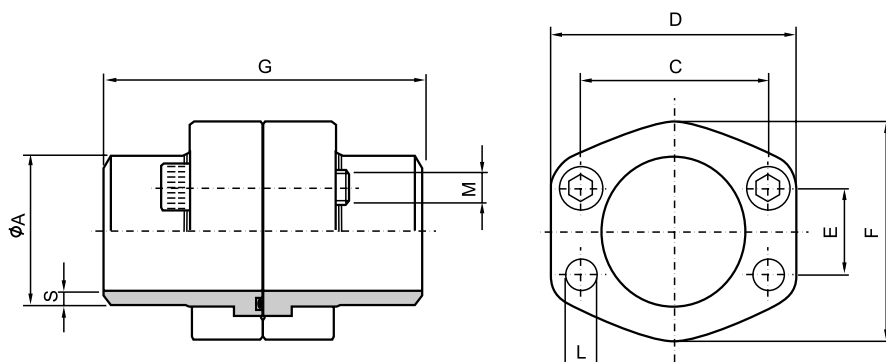
SAEWNA



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions							Screws		Weight kg
			Pipe size A x S	C	D	E	F	G	L	M		
										metr.	unc	
		Standard Pressure										
350	½"	SAEWNA04-04B-61	21.3 x 3.7	38.10	54	17.48	45.6	50	9.0	M 8 x 35	⅝ x 1 ¼	0.08
350	¾"	SAEWNA06-06B-61	26.7 x 3.9	47.63	65	22.23	51.8	50	11.0	M 10 x 35	⅜ x 1 ¼	0.16
350	1"	SAEWNA08-08B-61	33.4 x 4.5	52.37	70	26.19	58.4	50	11.0	M 10 x 35	⅜ x 1 ¼	0.23
280	1 ¼"	SAEWNA10-10B-61	42.2 x 4.9	58.72	79	30.18	72.6	55	11.5	M 12 x 45	⅞ x 1 ½	0.30
280	1 ½"	SAEWNA12-12B-61	48.3 x 5.1	69.85	94	35.71	82.2	60	13.5	M 12 x 45	½ x 1 ½	0.40
280	2"	SAEWNA16-16B-61	60.3 x 5.5	77.77	102	42.88	96.4	60	13.5	M 12 x 50	½ x 1 ½	0.50
210	2 ½"	SAEWNA20-20B-61	73.0 x 7.0	88.90	114	50.80	108.2	60	13.5	M 12 x 60	½ x 1 ¾	0.80
210	3"	SAEWNA24-24B-61	88.9 x 7.6	106.38	135	61.93	130.6	60	17.0	M 16 x 70	⅝ x 2	1.10
160	3 ½"	SAEWNA28-28B-61	101.5 x 8.1	120.65	152	69.85	139.0	60	17.0	M 16 x 50	⅝ x 2	1.40
160	4"	SAEWNA32-32B-61	11.43 x 8.6	130.18	162	77.77	152.0	60	17.0	M 16 x 60	⅝ x 2	1.75
35	5"	SAEWNA40-40B-61	141.3 x 9.5	152.40	184	92.08	180.0	60	17.0	M 16 x 70	⅝ x 2	2.62
		High Pressure										
420	½"	SAEWNA04-04C-62	21.3 x 4.7	40.49	56	18.24	47.2	50	9.0	M 8 x 35	⅝ x 1 ¼	0.08
420	¾"	SAEWNA06-06C-62	26.7 x 5.5	50.80	71	23.80	60.0	50	11.0	M 10 x 40	⅜ x 1 ½	0.17
420	1"	SAEWNA08-08C-62	33.4 x 6.4	57.15	81	27.76	69.6	50	13.0	M 12 x 45	⅞ x 1 ¾	0.25
420	1 ¼"	SAEWNA10-10C-62	42.2 x 6.4	66.68	95	31.75	77.2	55	14.5	M 14 x 50	½ x 1 ¾	0.30
420	1 ½"	SAEWNA12-12C-62	48.3 x 7.1	79.38	113	36.50	95.0	60	17.0	M 16 x 60	⅝ x 2	0.53
420	2"	SAEWNA16-16C-62	60.3 x 8.7	96.82	133	44.45	113.8	60	21.0	M 20 x 70	¾ x 2 ½	0.90
420	2 ½"	SAEWNA20-20C-62	73.0 x 9.5	123.80	180	58.80	150.2	60	26.0	M 24 x 75	-	2.40
420	3"	SAEWNA24-24C-62	88.9 x 11.1	152.40	215	71.60	198.2	60	31.0	M 30 x 90	-	3.60

SAE - Welding neck coupling

SAEWNC

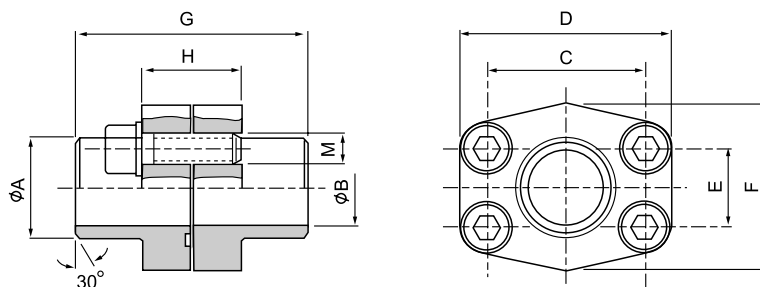


Maximum recommended working prssure kg/cm ²	Nominal flange size, in	Type	Dimensions							Screws		Weight kg
			Pipe size A x S	C	D	E	F	G	L	M		
										metr.	unc	
		Standard Pressure										
350	$\frac{1}{2}$ "	SAEWNC04B - 61	21.3 x 3.7	38.10	54	17.48	45.6	100	9.0	M 8 x 35	$\frac{5}{16}$ x $1\frac{1}{4}$	0.08
350	$\frac{3}{4}$ "	SAEWNC06B - 61	26.7 x 3.9	47.63	65	22.23	51.8	100	11.0	M 10 x 35	$\frac{3}{8}$ x $1\frac{1}{4}$	0.16
350	1"	SAEWNC08B - 61	33.4 x 4.5	52.37	70	26.19	58.4	100	11.0	M 10 x 35	$\frac{3}{8}$ x $1\frac{1}{4}$	0.23
280	$1\frac{1}{4}$ "	SAEWNC10B - 61	42.2 x 4.9	58.72	79	30.18	72.6	110	11.5	M 12 x 45	$\frac{7}{16}$ x $1\frac{1}{2}$	0.30
280	$1\frac{1}{2}$ "	SAEWNC12B - 61	48.3 x 5.1	69.85	94	35.71	82.2	120	13.5	M 12 x 45	$\frac{1}{2}$ x $1\frac{1}{2}$	0.40
280	2"	SAEWNC16B - 61	60.3 x 5.5	77.77	102	42.88	96.4	120	13.5	M 12 x 50	$\frac{1}{2}$ x $1\frac{1}{2}$	0.50
210	$2\frac{1}{2}$ "	SAEWNC20B - 61	73.0 x 7.0	88.90	114	50.80	108.2	120	13.5	M 12 x 60	$\frac{1}{2}$ x $1\frac{3}{4}$	0.80
210	3"	SAEWNC24B - 61	88.9 x 7.6	106.38	135	61.93	130.6	120	17.0	M 16 x 70	$\frac{5}{8}$ x 2	1.10
160	$3\frac{1}{2}$ "	SAEWNC28B - 61	101.5 x 8.1	120.65	152	69.85	139.0	120	17.0	M 16 x 50	$\frac{5}{8}$ x 2	1.40
160	4"	SAEWNC32B - 61	11.43 x 8.6	130.18	162	77.77	152.0	120	17.0	M 16 x 60	$\frac{5}{8}$ x 2	1.75
35	5"	SAEWNC40B - 61	141.3 x 9.5	152.40	184	92.08	180.0	120	17.0	M 16 x 70	$\frac{5}{8}$ x 2	2.62
		High Pressure										
420	$\frac{1}{2}$ "	SAEWNC04C - 62	21.3 x 4.7	40.49	56	18.24	47.2	100	9.0	M 8 x 35	$\frac{5}{16}$ x $1\frac{1}{4}$	0.08
420	$\frac{3}{4}$ "	SAEWNC06C - 62	26.7 x 5.5	50.80	71	23.80	60.0	100	11.0	M 10 x 40	$\frac{3}{8}$ x $1\frac{1}{2}$	0.17
420	1"	SAEWNC08C - 62	33.4 x 6.4	57.15	81	27.76	69.6	100	13.0	M 12 x 45	$\frac{7}{16}$ x $1\frac{3}{4}$	0.25
420	$1\frac{1}{4}$ "	SAEWNC10C - 62	42.2 x 6.4	66.68	95	31.75	77.2	110	14.5	M 14 x 50	$\frac{1}{2}$ x $1\frac{3}{4}$	0.30
420	$1\frac{1}{2}$ "	SAEWNC12C - 62	48.3 x 7.1	79.38	113	36.50	95.0	120	17.0	M 16 x 60	$\frac{5}{8}$ x 2	0.53
420	2"	SAEWNC16C - 62	60.3 x 8.7	96.82	133	44.45	113.8	120	21.0	M 20 x 70	$\frac{3}{4}$ x $2\frac{1}{2}$	0.90
420	$2\frac{1}{2}$ "	SAEWNC20C - 62	73.0 x 9.5	123.80	180	58.80	150.2	120	26.0	M 24 x 75	-	2.40
420	3"	SAEWNC24C - 62	88.9 x 11.1	152.40	215	71.60	198.2	120	31.0	M 30 x 90	-	3.60

SAE J 518 C 61/62 Flanges

SAE - weld on coupling

SADFS - BW

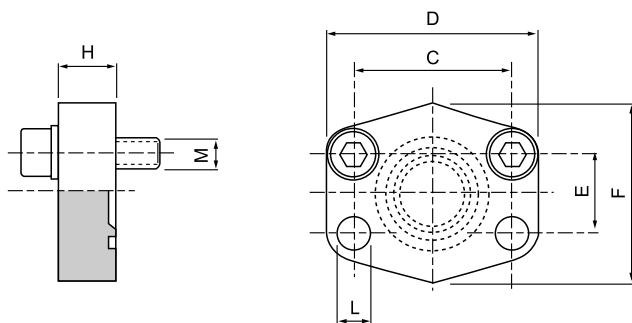


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions								Screws		Weight kg
			A	B	C	D	E	F	G	H	M		
											metr.	unc	
		Standard Pressure											
350	½"	SADFS 308-08 BW	21.6	13	38.10	54	17.48	46	72	32	M 8 x 30	5/16 x 1 ¼	0.56
350	¾"	SADFS 312-12 BW	27.2	19	47.63	65	22.23	50	72	36	M 10 x 35	3/8 x 1 ½	0.78
350	1"	SADFS 316-16 BW	34.0	25	52.37	70	26.19	55	76	36	M 10 x 35	3/8 x 1 ½	0.92
280	1 ¼"	SADFS 320-20 BW	42.8	32	58.72	79	30.18	68	82	42	M 10 x 40	7/16 x 1 ½	1.32
210	1 ½"	SADFS 324-24 BW	48.6	38	69.85	93	35.71	78	88	50	M 12 x 45	½ x 1 ¾	2.10
210	2"	SADFS 332-32 BW	61.0	51	77.77	102	42.88	90	90	50	M 12 x 45	½ x 1 ¾	2.38
175	2 ½"	SADFS 340-40 BW	73.5	63	88.90	114	50.80	105	100	50	M 12 x 45	½ x 1 ¾	2.80
140	3"	SADFS 348-48 BW	90.5	76	106.38	134	61.93	124	100	54	M 16 x 50	5/8 x 2	4.30
35	3 ½"	SADFS 356-56 BW	103.0	89	120.65	152	69.85	136	96	54	M 16 x 50	5/8 x 2	4.80
35	4"	SADFS 364-64 BW	115.0	102	130.18	162	77.77	146	96	54	M 16 x 50	5/8 x 2	5.70
35	5"	SADFS 380-80 BW	143.0	127	152.40	184	92.08	180	100	56	M 16 x 55	5/8 x 2	10.00
		High Pressure											
420	½"	SADFS 608-08 BW	21.6	13	40.49	54	18.24	46	72	32	M 8 x 30	5/16 x 1 ¼	0.56
420	¾"	SADFS 612-12 BW	27.2	19	50.80	71	23.80	55	70	42	M 10 x 35	3/8 x 1 ½	0.78
420	1"	SADFS 616-16 BW	34.0	25	57.15	79	27.76	68	82	42	M 12 x 45	7/16 x 1 ¾	0.92
420	1 ¼"	SADFS 620-20 BW	42.8	32	66.68	95	31.75	78	88	48	M 14 x 45	½ x 1 ¾	1.32
420	1 ½"	SADFS 624-24 BW	48.6	38	79.38	114	36.50	94	110	60	M 16 x 50	5/8 x 2	2.38
420	2"	SADFS 632-32 BW	61.0	51	96.82	134	44.45	114	130	74	M 20 x 65	¾ x 2 ½	4.30
420	2 ½"	SADFS 640-40 BW	73.5	61	123.80	180	58.70	152	160	90	M 24 x 75	-	5.70

SAE J 518 C 61/62 Flanges

SAE - closed flange

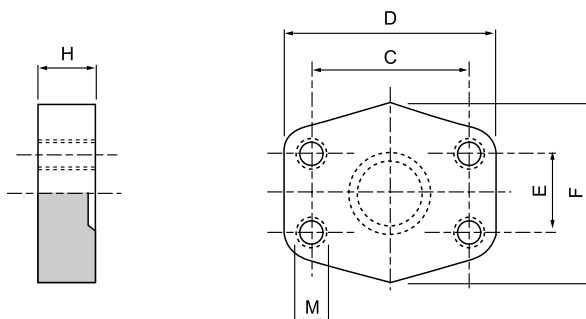
SAAFC



Maximum recommended working prssure kg/cm ²	Nominal flange size, in	Type	Dimensions						Screws		Weight kg
			C	D	E	F	H	L	M		
									metr.	unc	
		Standard Pressure									
350	½"	SAAFC 308	38.10	56	17.48	48	16	9.0	M 8 x 30	⅝ x 1 ¼	0.20
350	¾"	SAAFC 312	47.63	65	22.23	50	16	11.0	M 10 x 35	⅜ x 1 ½	0.30
350	1"	SAAFC 316	52.37	70	26.19	60	19	11.0	M 10 x 35	⅜ x 1 ½	0.37
280	1 ¼"	SAAFC 320	58.72	79	30.18	68	18	11.5	M 10 x 40	7/16 x 1 ½	0.54
210	1 ½"	SAAFC 324	69.85	93	35.71	78	20	13.5	M 12 x 45	½ x 1 ¾	0.90
210	2"	SAAFC 332	77.77	102	42.88	90	20	13.5	M 12 x 45	½ x 1 ¾	1.00
175	2 ½"	SAAFC 340	88.90	114	50.80	105	20	13.5	M 12 x 45	½ x 1 ¾	1.35
140	3"	SAAFC 348	106.38	134	61.93	124	24	17.0	M 16 x 50	⅝ x 2	2.35
35	3 ½"	SAAFC 356	120.65	152	69.85	136	22	17.0	M 16 x 50	⅝ x 2	2.90
35	4"	SAAFC 364	130.18	162	77.77	146	25	17.0	M 16 x 50	⅝ x 2	3.90
35	5"	SAAFC 380	152.40	190	92.08	170	28	17.0	M 16 x 50	⅝ x 2	4.00
		High Pressure									
420	½"	SAAFC 608	40.49	56	18.24	48	16	9.0	M 8 x 30	⅝ x 1 ¼	0.20
420	¾"	SAAFC 612	50.80	71	23.80	60	19	11.0	M 10 x 35	⅜ x 1 ½	0.48
420	1"	SAAFC 616	57.15	81	27.76	70	24	12.5	M 12 x 45	7/16 x 1 ¾	0.77
420	1 ¼"	SAAFC 620	66.68	95	31.75	78	27	14.5	M 14 x 45	½ x 1 ¾	0.85
420	1 ½"	SAAFC 624	79.38	112	36.50	94	30	17.0	M 16 x 50	⅝ x 2	1.80
420	2"	SAAFC 632	96.82	134	44.45	114	28	21.0	M 20 x 65	¾ x 2 ½	2.00
420	2 ½"	SAAFC 640	123.80	180	58.70	150	45	26.0	M 24 x 75	-	5.30

SAE - closed flange companion

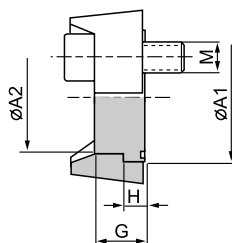
SAAFG



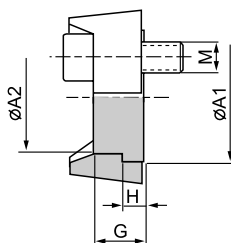
Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions						Weight kg
			C	D	E	F	H	M	
		Standard Pressure							
350	½"	SAGFC 308	38.10	56	17.48	48	16	M 8	0.20
350	¾"	SAGFC 312	47.63	65	22.23		16	M 10	0.30
350	1"	SAGFC 316	52.37	70	26.19	60	19	M 10	0.37
280	1¼"	SAGFC 320	58.72	79	30.18	68	18	M 10	0.54
210	1½"	SAGFC 324	69.85	93	35.71	78	20	M 12	0.90
210	2"	SAGFC 332	77.77	102	42.88	90	20	M 12	1.00
175	2½"	SAGFC 340	88.90	114	50.80	105	20	M 12	1.35
140	3"	SAGFC 348	106.38	134	61.93	124	24	M 16	2.35
35	3½"	SAGFC 356	120.65	152	69.85	136	22	M 16	2.90
35	4"	SAGFC 364	130.18	162	77.77	146	25	M 16	3.90
35	5"	SAGFC 380	152.40	190	92.08	170	28	M 16	4.00
		High Pressure							
420	½"	SAGFC 608	40.49	56	18.24	48	16	M 8	0.20
420	¾"	SAGFC 612	50.80	71	23.80	60	19	M 10	0.48
420	1"	SAGFC 616	57.15	81	27.76	70	24	M 12	0.77
420	1¼"	SAGFC 620	66.68	95	31.75	78	27	M 14	0.85
420	1½"	SAGFC 624	79.38	112	36.50	94	30	M 16	1.80
420	2"	SAGFC 632	96.82	134	44.45	114	28	M 20	2.00
420	2½"	SAGFC 640	123.80	180	58.80	150	45	M 24	5.30

SAE - flange plug

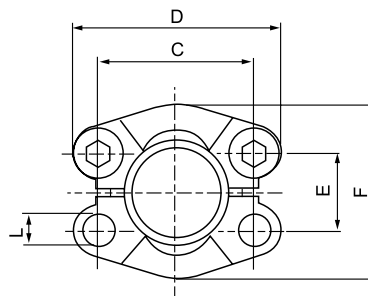
SABSO / BS



BSO



BS

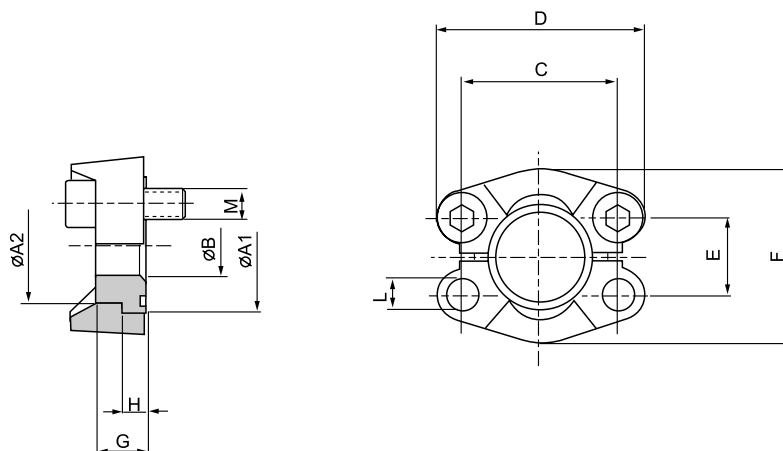


Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions									Screws		Weight kg
			A1	A2	C	D	E	F	G	H	L	M		
												metr.	unc	
		Standard Pressure												
350	½"	SA/BSO 308	30.2	23.9	38.10	54	17.48	45.6	16	6.9	9.0	M 8 x 25	5/16 x 1¼	0.18
350	¾"	SA/BSO 312	38.1	31.7	47.63	65	22.23	51.8	17	6.9	11.0	M 10 x 30	3/8 x 1¼	0.20
350	1"	SA/BSO 316	44.4	38.1	52.37	70	26.19	58.4	17	8.1	11.0	M 10 x 30	3/8 x 1¼	0.26
280	1¼"	SA/BSO 320	50.8	42.3	58.72	79	30.18	72.6	17	8.1	11.5	M 10 x 30	7/16 x 1½	0.36
210	1½"	SA/BSO 324	60.3	50.3	69.85	93	35.71	82.2	19	8.1	13.5	M 12 x 35	½ x 1½	0.54
210	2"	SA/BSO 332	71.4	62.2	77.77	102	42.88	96.4	19	9.7	13.5	M 12 x 35	½ x 1½	0.60
175	2½"	SA/BSO 340	84.1	74.0	88.90	114	50.80	108.0	40	9.5	13.5	M 12 x 35	½ x 1½	0.87
140	3"	SA/BSO 348	101.6	90.0	106.38	135	61.93	130.6	45	9.5	17.0	M 16 x 50	5/8 x 2	1.56
35	3½"	SA/BSO 356	114.3	102.0	120.65	152	69.85	139.0	30	11.2	17.0	M 16 x 50	5/8 x 2	1.80
35	4"	SA/BSO 364	127.0	114.0	130.18	162	77.77	152.0	36	11.2	17.0	M 16 x 50	5/8 x 2	1.98
35	5"	SA/BSO 380	152.4	140.0	152.40	184	92.08	180.0	45	11.2	17.0	M 16 x 50	5/8 x 2	3.00
		High Pressure												
420	½"	SA/BSO 608	31.7	23.9	40.49	56	18.24	47.2	18	7.9	9.0	M 8 x 30	5/16 x 1¼	0.19
420	¾"	SA/BSO 612	41.3	31.7	50.80	71	23.80	60.0	15	8.9	11.0	M 10 x 35	3/8 x 1½	0.42
420	1"	SA/BSO 616	47.6	38.1	57.15	81	27.76	69.6	16	9.7	12.5	M 12 x 45	7/16 x 1¾	0.64
420	1¼"	SA/BSO 620	54.0	43.7	66.68	95	31.75	77.2	16	10.4	14.5	M 14 x 50	½ x 1¾	0.96
420	1½"	SA/BSO 624	63.5	50.8	79.38	113	36.50	95.0	19	12.7	17.0	M 16 x 55	5/8 x 2	1.62
420	2"	SA/BSO 632	79.4	66.5	96.82	133	44.45	113.8	30	12.7	21.0	M 20 x 65	¾ x 2½	2.52
420	2½"	SA/BSO 640	108.0	90.0	123.80	180	58.70	150.2	45	21.2	26.0	M 24 x 75	-	4.92
420	3"	SA/BSO 648	132.0	114.0	152.40	215	71.60	198.16	55	26.5	31.0	M 30 x 90	-	10.32

SAE J 518 C 61/62 Flanges

SAE - flange head

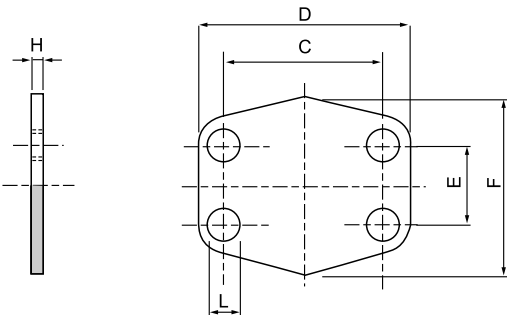
SAFT



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions										Screws		Weight kg
			A1	A2	B	C	D	E	F	G	H	L	M		
													metr.	unc	
		Standard Pressure													
350	½"	SAFT 308	30.2	23.9	0/10	38.10	54	17.48	45.6	16	6.9	9.0	M 8 x 25	⅝ x 1¼	0.17
350	¾"	SAFT 312	38.1	31.7	0/15	47.63	65	22.23	51.8	17	6.9	11.0	M 10 x 30	⅜ x 1¼	0.19
350	1"	SAFT 316	44.4	38.1	0/20	52.37	70	26.19	58.4	17	8.1	11.0	M 10 x 30	⅜ x 1½	0.25
280	1¼"	SAFT 320	50.8	43.2	0/27	58.72	79	30.18	72.6	17	8.1	11.5	M 10 x 30	⅞ x 1½	0.35
210	1½"	SAFT 324	60.3	50.3	0/32	69.85	94	35.71	82.2	19	8.1	13.5	M 12 x 35	½ x 1½	0.53
210	2"	SAFT 332	71.4	62.2	0/40	77.77	102	42.88	96.4	19	9.7	13.5	M 12 x 35	½ x 1½	0.59
175	2½"	SAFT 340	84.1	74.0	0/50	88.90	114	50.80	108.2	30	9.7	13.5	M 12 x 35	½ x 1½	0.86
		High Pressure													
420	½"	SAFT 608	31.7	23.9	0/10	40.49	56	18.24	47.2	16	7.9	8.5	M 8 x 30	⅝ x 1¼	0.18
420	¾"	SAFT 612	41.3	31.7	0/15	50.80	71	23.80	60	20	8.9	10.5	M 10 x 35	⅜ x 1½	0.41
420	1"	SAFT 616	47.6	38.1	0/20	57.15	81	27.76	69.6	22	9.7	12.5	M 12 x 45	⅞ x 1¾	0.63
420	1¼"	SAFT 620	54.0	43.7	0/27	66.68	95	31.75	77.2	27	10.4	14.5	M 14 x 50	½ x 1¾	0.95
420	1½"	SAFT 624	63.5	50.8	0/32	79.38	113	36.50	95.0	32	12.7	17.0	M 16 x 55	⅝ x 2	1.61
420	2"	SAFT 632	79.4	66.5	0/40	96.82	133	44.45	113.8	40	12.7	21.0	M 20 x 65	¾ x 2½	2.51

SAE - locking sheet

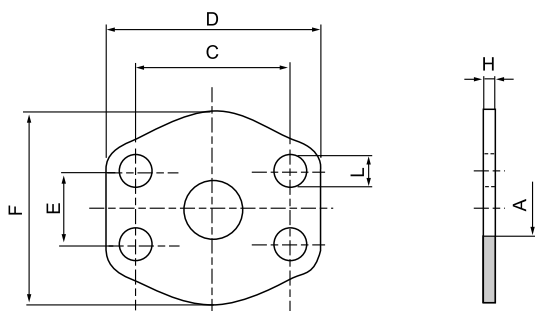
SAAP



Maximum recommended working prssure kg/cm ²	Nominal flange size, in	Type	Dimensions						Weight kg
			C	D	E	F	H	L	
		Standard Pressure							
-	½"	SAAP 308	38.10	54	17.48	45.6	3	9.0	0.01
-	¾"	SAAP 312	47.63	65	22.23	51.8	3	11.0	0.01
-	1"	SAAP 316	52.37	70	26.19	58.4	3	11.0	0.01
-	1¼"	SAAP 320	58.72	79	30.18	72.6	3	11.5	0.02
-	1½"	SAAP 324	69.85	94	35.71	82.2	3	13.5	0.02
-	2"	SAAP 332	77.77	102	42.88	90.0	3	13.5	0.03
-	2½"	SAAP 340	88.90	114	50.80	108.12	3	13.5	0.03
-	3"	SAAP 348	106.38	134	61.93	130.6	4	17.0	0.04
-	3½"	SAAP 356	120.65	152	69.85	139.0	4	17.0	0.06
-	4"	SAAP 364	130.18	162	77.77	152.0	4	17.0	0.08
-	5"	SAAP 380	152.40	184	92.08	180.0	4	17.0	0.09
		High Pressure							
-	½"	SAAP 608	40.49	56	18.24	47.2	4	9.0	0.01
-	¾"	SAAP 612	50.80	71	23.80	60.0	4	11.0	0.01
-	1"	SAAP 616	57.15	81	27.76	69.6	4	12.5	0.02
-	1¼"	SAAP 620	66.68	95	31.75	77.2	4	14.5	0.03
-	1½"	SAAP 624	79.38	113	36.50	95.0	4	17.0	0.04
-	2"	SAAP 632	96.82	133	44.45	113.8	4	21.0	0.05

SAE - adapter sheet

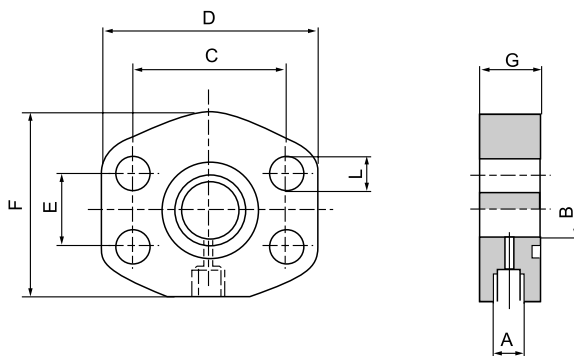
SAEP



Maximum recommended working prsssure kg/cm²	Nominal flange size, in	Type	Dimensions							Weight kg
			A	C	D	E	F	H	L	
		Standard Pressure								
-	½"	SAZP 308	13	38.10	54	17.48	45.6	3	9.0	0.01
-	¾"	SAZP 312	19	47.63	65	22.23	51.8	3	11.0	0.01
-	1"	SAZP 316	25	52.37	70	26.19	58.4	3	11.0	0.01
-	1 ¼"	SAZP 320	32	58.72	79	30.18	72.6	3	11.5	0.02
-	1 ½"	SAZP 324	38	69.85	94	35.71	82.2	3	13.5	0.02
-	2"	SAZP 332	51	77.77	102	42.88	90.0	3	13.5	0.03
-	2 ½"	SAZP 340	63	88.90	114	50.80	108.0	3	13.5	0.03
-	3"	SAZP 348	73	106.38	134	61.93	130.6	4	17.0	0.04
-	3 ½"	SAZP 356	89	120.65	152	69.85	139.0	4	17.0	0.06
-	4"	SAZP 364	99	130.18	162	77.77	152.0	4	17.0	0.08
-	5"	SAZP 380	120	152.40	184	92.08	180.0	4	17.0	0.09
		High Pressure								
-	½"	SAZP 608	13	40.49	56	18.24	47.2	4	9.0	0.01
-	¾"	SAZP 612	17	50.80	71	23.80	60.0	4	11.0	0.01
-	1"	SAZP 616	24	57.15	81	27.76	69.6	4	12.5	0.02
-	1 ¼"	SAZP 620	31	66.68	95	31.75	77.2	4	14.5	0.03
-	1 ½"	SAZP 624	38	79.38	113	36.50	95.0	4	17.0	0.04
-	2"	SAZP 632	51	96.82	133	44.45	113.8	4	21.0	0.05

SAE - adapter flange with test point

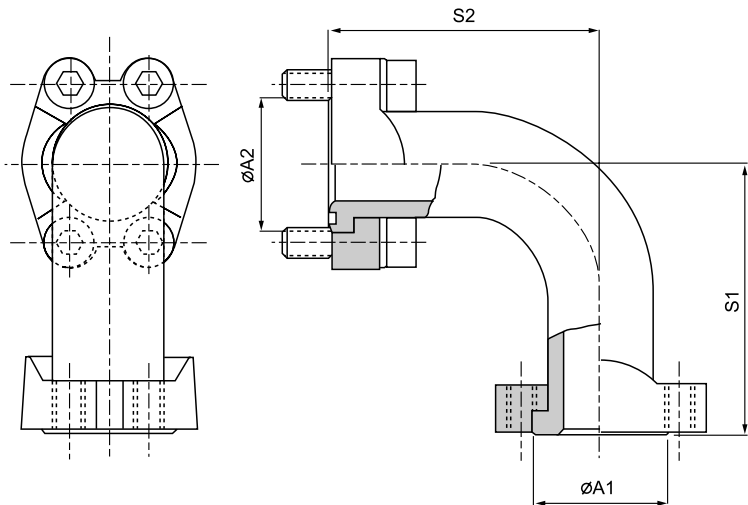
SAAGL



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions								Weight kg
			A	B	C	D	E	F	G	L	
		Standard Pressure									
350	1/2"	SAAGL 308	G 1/4"	12	38.10	55	17.48	38	24	9.0	0.45
350	3/4"	SAAGL 312	G 1/4"	19	47.63	65	22.23	50	24	11.0	0.60
350	1"	SAAGL 316	G 1/4"	24	52.37	70	26.19	50	24	11.0	0.60
280	1 1/4"	SAAGL 320	G 1/4"	32	58.72	81	30.18	70	23	11.5	0.75
210	1 1/2"	SAAGL 324	G 1/4"	38	69.85	95	35.71	78	24	13.5	0.80
210	2"	SAAGL 332	G 1/4"	50	77.77	102	42.88	90	24	13.5	1.25
		High Pressure									
420	1/2"	SAAGL 608	G 1/4"	12	40.49	55	18.24	38	24	9.0	0.45
420	3/4"	SAAGL 612	G 1/4"	19	50.80	70	23.80	50	24	11.0	0.60
420	1"	SAAGL 616	G 1/4"	24	57.15	81	27.76	70	23	12.5	0.75
420	1 1/4"	SAAGL 620	G 1/4"	32	66.68	95	31.75	78	24	14.5	0.80
420	1 1/2"	SAAGL 624	G 1/4"	38	79.38	112	36.50	94	24	17.0	1.40
420	2"	SAAGL 632	G 1/4"	51	96.82	134	44.45	114	24	21.0	1.57

SAE - adapter 90° - welded

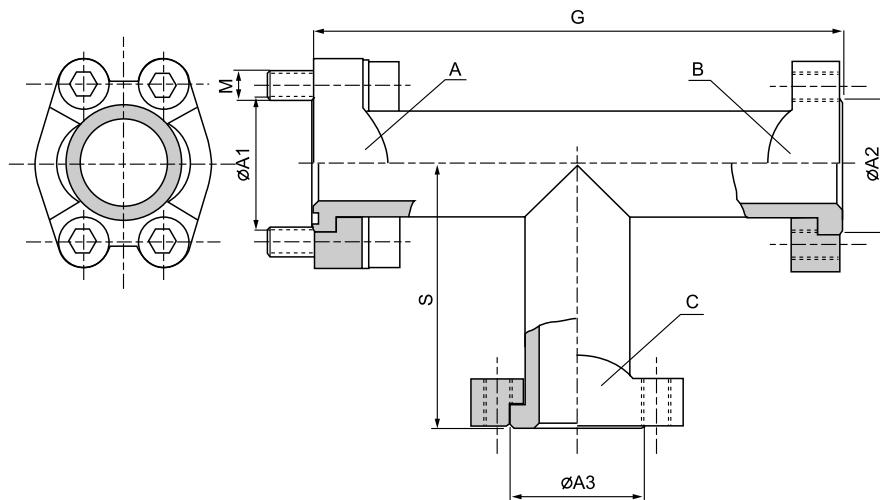
SAAG



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions				Weight kg
			A1	A2	S1	S2	
		Standard Pressure					
350	½"	SAAG 308	30.2	30.2	70	70	0.65
350	¾"	SAAG 312	38.1	38.1	80	80	0.90
350	1"	SAAG 316	44.4	44.4	90	90	1.15
210	1 ¼"	SAAG 320	50.8	50.8	103	103	1.50
210	1 ½"	SAAG 324	60.3	60.3	115	115	2.55
210	2"	SAAG 332	71.4	71.4	135	135	2.79
175	2 ½"	SAAG 340	84.1	84.1	155	155	3.20
35	3"	SAAG 348	101.6	101.6	175	175	4.60
35	3 ½"	SAAG 356	114.3	114.3	175	175	5.12
35	4"	SAAG 364	127.0	127.0	215	215	6.25
35	5"	SAAG 380	152.4	152.4	250	250	7.65

SAE - T- connection - welded

SAT

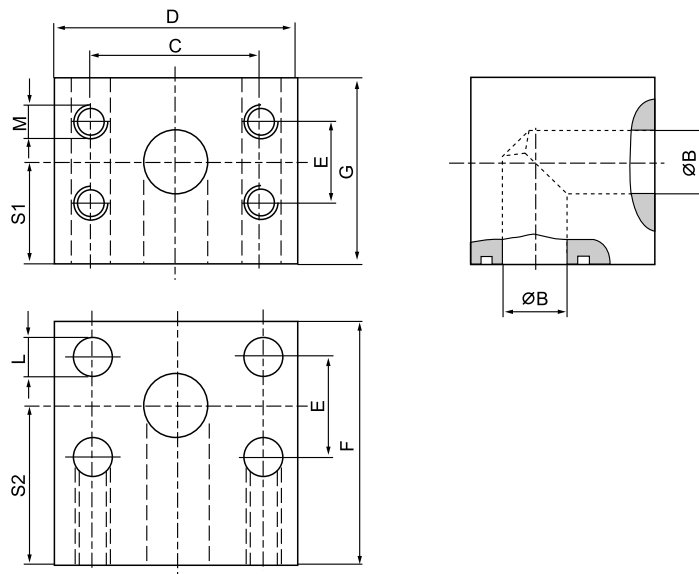


Maximum recommended working pressure kg/cm ²	Type	Connection A			Connection B		Connection C				Weight kg
		Size	A1	M	Size	A2	Size	A3	G	S	
350	SAT 308	1/2"	30.2	M 8 x 30	1/2"	30.2	1/2"	30.2	133	67	0.97
350	SAT 312	3/4"	38.1	M 10 x 35	3/4"	38.1	3/4"	38.1	160	80	1.20
350	SAT 316	1"	44.4	M 10 x 35	1"	44.4	1"	44.4	177	88	1.63
210	SAT 320	1 1/4"	50.8	M 10 x 30	1 1/4"	50.8	1 1/4"	50.8	208	103	2.25
210	SAT 324	1 1/2"	60.3	M 12 x 35	1 1/2"	60.3	1 1/2"	60.3	230	114	3.50
210	SAT 332	2"	71.4	M 12 x 35	2"	71.4	2"	71.4	244	122	4.20
175	SAT 340	2 1/2"	84.1	M 12 x 40	2 1/2"	84.1	2 1/2"	84.1	270	135	4.70
140	SAT 348	3"	101.6	M 16 x 50	3"	101.6	3"	101.6	293	146	8.20
35	SAT 356	3 1/2"	114.3	M 16 x 50	3 1/2"	114.3	3 1/2"	114.3	293	146	9.55
35	SAT 364	4"	127.0	M 16 x 50	4"	127.0	4"	127.0	332	165	12.10
35	SAT 380	5"	152.4	M 16 x 50	5"	152.4	5"	152.4	370	185	14.70

SAE J 518 C 61/62 Flanges

SAE - 90° L - Block

SAL - GD

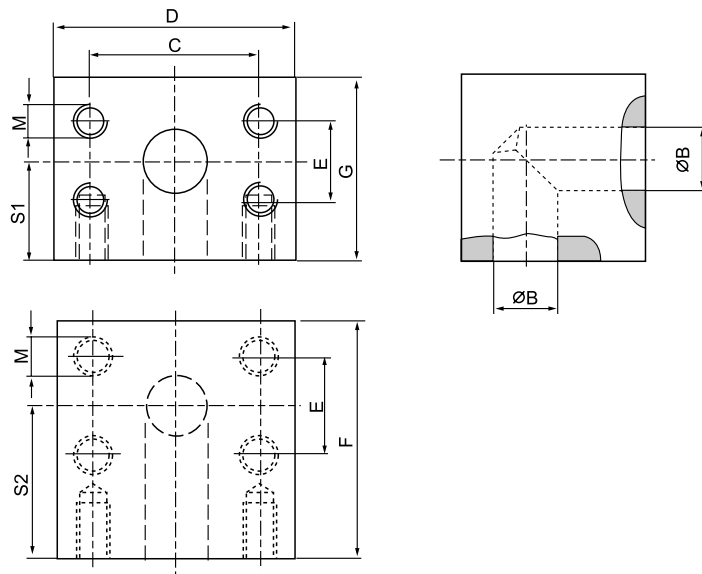


Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions										Weight kg
			B	C	D	E	F	G	L	M	S1	S2	
		Standard Pressure											
350	½"	SAL-GD 308	13	38.10	55	17.48	55	50	9.0	M 8	25.0	35	1.0
350	¾"	SAL-GD 312	19	47.65	65	23.25	60	60	11.0	M 10	30.0	40	1.2
350	1"	SAL-GD 316	24	52.40	72	26.20	65	65	11.0	M 10	33.0	40	1.9
280	1 ¼"	SAL-GD 320	32	58.72	82	30.18	82	80	11.5	M 10	39.0	38	3.5
210	1 ½"	SAL-GD 324	38	69.85	98	35.71	92	92	13.5	M 12	51.0	59	5.0
210	2"	SAL-GD 332	46	77.77	102	42.88	85	87	13.5	M 12	51.0	48	7.9
175	2 ½"	SAL-GD 340	62	88.90	115	50.80	110	120	13.5	M 12	60.0	65	8.6
140	3"	SAL-GD 348	73	106.38	135	61.93	150	135	17.0	M 16	67.5	90	10.5
		High Pressure											
420	½"	SAL-GD 608	13	40.50	60	18.25	60	50	9.0	M 8	25.0	40	1.0
420	¾"	SAL-GD 612	19	50.80	72	23.80	60	55	11.0	M 10	32.0	36	1.4
420	1"	SAL-GD 616	23	57.15	82	27.76	68	64	13.0	M 12	37.0	40	2.3
420	1 ¼"	SAL-GD 620	30	66.68	96	31.75	76	72	15.0	M 14	41.0	46	3.3
420	1 ½"	SAL-GD 624	38	79.38	114	36.50	86	89	17.0	M 16	50.0	52	5.4
420	2"	SAL-GD 632	50	96.82	133	44.45	110	105	21.0	M 20	59.0	70	9.0
420	2 ½"	SAL-GD 640	62	123.80	180	58.80	160	155	26.0	M 24	77.5	90	14.6

SAE J 518 C 61/62 Flanges

SAE - 90° L - Block - companion

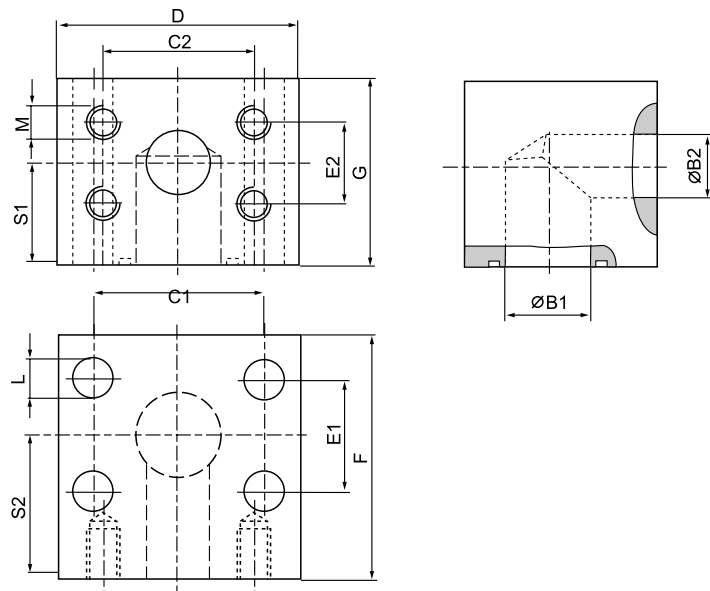
SAL - BL



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions									Weight kg
			B	C	D	E	F	G	M	S1	S2	
		Standard Pressure										
350	½"	SAL-BL 308	13	38.10	55	17.48	55	50	M 8	25.0	35	1.0
350	¾"	SAL-BL 312	19	47.65	65	23.25	60	60	M 10	30.0	40	1.2
350	1"	SAL-BL 316	24	52.40	72	26.20	65	65	M 10	33.0	40	1.9
280	1 ¼"	SAL-BL 320	32	58.72	82	30.18	82	80	M 10	39.0	38	3.5
210	1 ½"	SAL-BL 324	38	69.85	98	35.71	92	92	M 12	51.0	59	5.0
210	2"	SAL-BL 332	46	77.77	102	42.88	85	87	M 12	51.0	48	7.9
175	2 ½"	SAL-BL 340	62	88.90	110	50.80	110	120	M 12	60.0	65	8.6
140	3"	SAL-BL 348	73	106.38	135	61.93	150	135	M 16	67.5	90	10.5
		High Pressure										
420	½"	SAL-BL 608	13	40.50	60	18.25	60	50	M 8	2.6	40	1.0
420	¾"	SAL-BL 612	19	50.80	72	23.80	60	55	M 10	32.0	36	1.4
420	1"	SAL-BL 616	23	57.15	82	27.76	68	64	M 12	37.0	40	2.3
420	1 ¼"	SAL-BL 620	30	66.68	96	31.75	72	72	M 14	41.0	46	3.3
420	1 ½"	SAL-BL 624	38	79.38	114	36.50	86	89	M 16	50.0	52	5.3
420	2"	SAL-BL 632	50	96.82	133	44.45	110	105	M 20	59.0	70	9.0
420	2 ½"	SAL-BL 640	62	123.80	180	58.80	160	155	M 24	77.5	90	14.6

SAE - 90° L - reduction

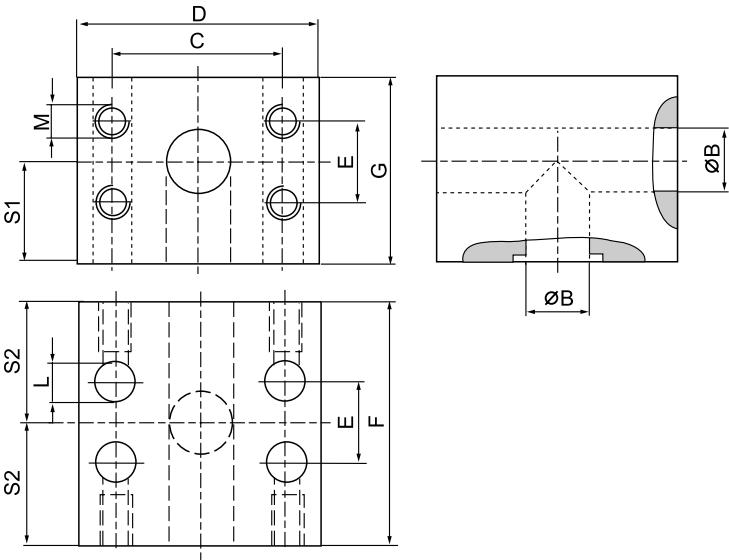
SARED - GD



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions													Weight kg
			B1	B2	C1	C2	D	E1	E2	F	G	L	M	S1	S2	
		High Pressure														
420	1"	SARED-GD 616-08	23	19	57.15	50.80	82	27.76	23.80	68	64	13	M 10	37	40	2.8
420	1 ¼"	SARED-GD 620-08	30	19	66.68	50.80	96	31.75	23.80	72	72	15	M 10	41	46	3.6
420	1 ¼"	SARED-GD 620-12	30	23	66.68	57.15	96	31.75	27.76	76	72	15	M 12	41	46	3.3
420	1 ½"	SARED-GD 624-20	38	30	79.38	66.68	114	36.50	31.75	86	89	17	M 14	50	52	5.7
420	2"	SARED-GD 632-24	50	38	96.82	79.38	133	44.45	36.50	110	105	21	M 16	63	70	9.0

SAE - T - block

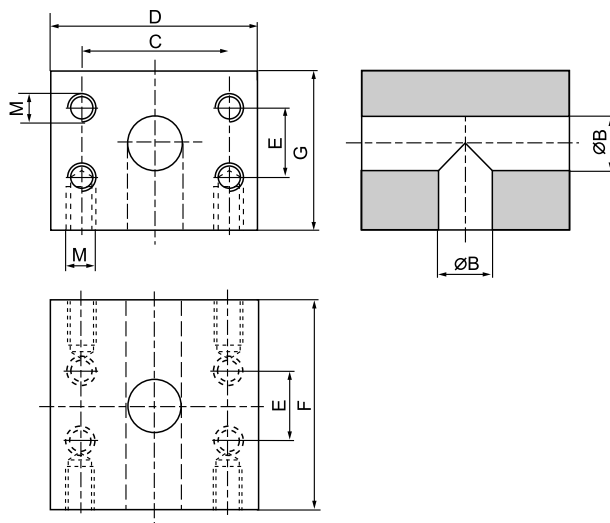
SAT - GD



Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions										Weight kg
			B	C	D	E	F	G	L	M	S1	S2	
		High Pressure											
420	¾"	SAT-GD 612	19	50.80	72	23.80	72	55	11	M 10	32	36	1.7
420	1"	SAT-GD 616	23	57.15	82	27.76	80	64	13	M 12	37	40	2.9
420	1 ¼"	SAT-GD 620	30	66.68	96	31.75	92	72	15	M 14	41	46	3.8
420	1 ½"	SAT-GD 624	38	79.38	114	36.50	104	89	17	M 16	50	52	8.9
420	2"	SAT-GD 632	50	96.82	133	44.45	140	105	21	M 20	63	70	12.7

SAE - T - block - companion flange

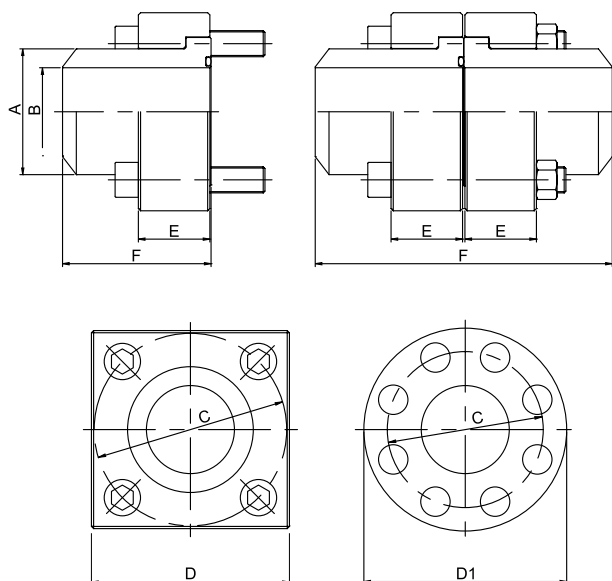
SAT - BL



Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions							Weight kg
			B	C	D	E	F	G	M	
		Standard Pressure								
350	½"	SAT-BL-308	13	38.10	55	17.48	70	50	M 8	1.4
350	¾"	SAT-BL-312	19	47.63	65	22.23	75	55	M 10	1.8
350	1"	SAT-BL-316	25	52.37	70	26.19	80	60	M 10	2.3
280	1¼"	SAT-BL-320	32	58.72	80	30.18	90	70	M 10	3.9
210	1½"	SAT-BL-324	38	69.85	95	35.71	110	85	M 12	6.3
210	2"	SAT-BL-332	50	77.77	100	42.88	120	110	M 12	8.3
175	2½"	SAT-BL-340	63	88.90	120	50.80	160	120	M 12	11.6
140	3"	SAT-BL-348	73	106.38	135	61.93	160	160	M 16	15.3
		High Pressure								
420	½"	SAT-BL-608	12	40.49	60	18.24	90	50	M 8	1.3
420	¾"	SAT-BL-612	19	50.80	72	23.80	72	55	M 10	1.7
420	1"	SAT-BL-616	23	57.15	82	27.76	80	64	M 12	2.9
420	1¼"	SAT-BL-620	30	66.68	100	31.75	92	72	M 14	3.8
420	1½"	SAT-BL-624	38	79.38	110	36.50	100	100	M 16	8.9
420	2"	SAT-BL-632	50	96.82	133	44.45	140	105	M 20	12.7
420	2½"	SAT-BL-640	62	123.80	180	58.80	180	155	M 24	16.5

Butt weld flange

AISOWNO



Flange to Block

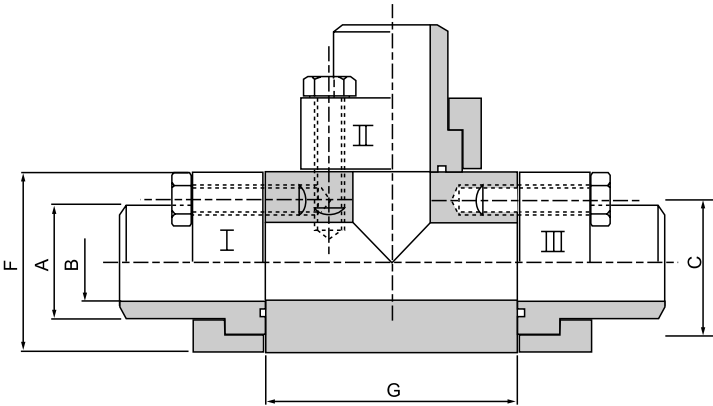
Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions							Screws	O-Ring	Weight, kg
			A	B	C	D	D1	E	F	M		
400	1 ½"	AISOWNO12B-40	48.3	38.1	85.0	90.0		34.0	68.0	4 × M 16 × 50	47.2 × 3.53	2.2
400	2"	AISOWNO16B-40	60.3	49.3	98.0	100.0		40.0	80.0	4 × M 16 × 60	56.5 × 5.33	3.2
400	2 ½"	AISOWNO20B-40	73.0	59.0	118.0	120.0		50.0	98.0	4 × M 20 × 70	59.7 × 5.33	5.6
400	3"	AISOWNO24B-40	88.9	73.7	145.0	150.0		54.0	109.0	4 × M 24 × 75	75.6 × 5.33	9.5
400	4"	AISOWNO32B-40	114.3	97.3	175.0	180.0		65.0	135.0	4 × M 30 × 95	89.6 × 5.7	17.6
400	5"	AISOWNO40B-40	141.3	122.3	200.0		245.0	70.0	150.0	8 × M 24 × 100	114.6 × 5.7	29.3
400	6"	AISOWNO48B-40	168.3	146.3	245.0		300.0	80.0	190.0	8 × M 30 × 110	148.6 × 6.99	48.2
400	8"	AISOWNO64B-40	219.1	193.7	290.0		355.0	90.0	190.0	8 × M 24 × 100	183.5 × 6.99	55.1

Flange to Flange

Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions							Screws	O-Ring	Weight, kg
			A	B	C	D	D1	E	F	M		
400	1 ½"	AISOWNO12B-40	48.3	38.1	85.0	90.0		34.0	136.0	4 × M 16 × 85	47.2 × 3.53	4.4
400	2"	AISOWNO16B-40	60.3	49.3	98.0	100.0		40.0	160.0	4 × M 16 × 100	56.5 × 5.33	6.4
400	2 ½"	AISOWNO20B-40	73.0	59.0	118.0	120.0		50.0	196.0	4 × M 20 × 130	59.7 × 5.33	11.2
400	3"	AISOWNO24B-40	88.9	73.7	145.0	150.0		54.0	218.0	4 × M 24 × 150	75.6 × 5.33	19.0
400	4"	AISOWNO32B-40	114.3	97.3	175.0	180.0		65.0	270.0	4 × M 30 × 160	89.6 × 5.7	35.2
400	5"	AISOWNO40B-40	141.3	122.3	200.0		245.0	70.0	300.0	8 × M 24 × 170	114.6 × 5.7	58.6
400	6"	AISOWNO48B-40	168.3	146.3	245.0		300.0	80.0	380.0	8 × M 30 × 200	148.6 × 6.99	96.4
400	8"	AISOWNO64B-40	219.1	193.7	290.0		355.0	90.0	380.0	8 × M 24 × 220	183.5 × 6.99	110.2

T - connection

SAVKV

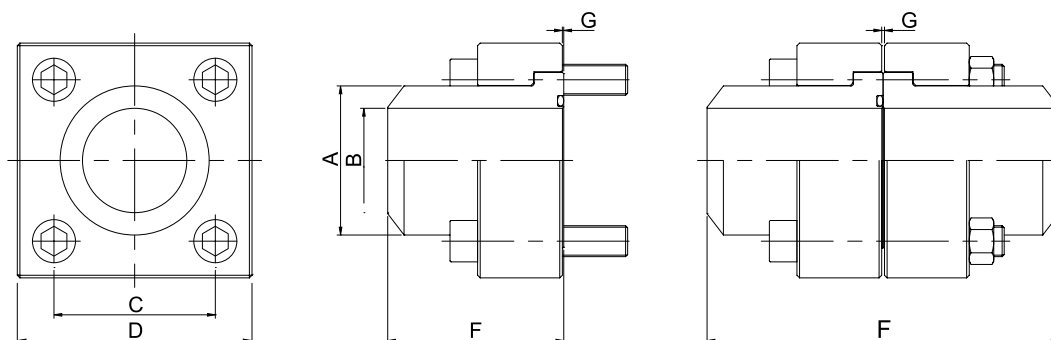


Naminal pressure 400bar

Maximum recommended working prsssure kg/cm ²	DN	Type	Dimensions					Screws	O-Ring	Weight flange kg
			A	B	C	F	G	M		
400	1/2"	SAVKV 4008	21.3 x 7.5	6	54	60	110	4 x M10 x 35	25.3 x 2.40	
400	3/4"	SAVKV 4012	26.7 x 7.8	11	54	60	110	4 x M10 x 35	25.3 x 2.40	
400	1"	SAVKV 4016	33.4 x 9.1	15	64	70	115	4 x M12 x 35	29.8 x 2.60	
400	1 1/4"	SAVKV 4020	42.2 x 9.7	23	72	80	125	4 x M12 x 40	34.5 x 2.60	
400	1 1/2"	SAVKV 4024	48.3 x 10.2	28	80	90	140	4 x M16 x 50	43.0 x 3.00	
400	2"	SAVKV 4026	60.3 x 11.1	38	98	100	160	4 x M16 x 60	53.3 x 5.33	
400	2 1/2"	SAVKV 4040	73.0 x 14.0	45	118	120	180	4 x M20 x 70	61.0 x 5.00	
400	3"	SAVKV 4048	88.9 x 15.2	59	145	150	200	4 x M24 x 75	75.0 x 5.00	
400	4"	SAVKV 4064	114.3 x 17.1	80	175	180	240	4 x M30 x 90	88.0 x 6.00	

CETOP - Butt weld flange

AISOWNO



Flange to Block

Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions						Screws	Weight, kg
			A	B	C	D	F	G	M	
400	1/2"	AISOWNO04B-40	21.3	13.9	29.7	45.0	50.0	1.0	4 x M 8 x 35	0.31
400	3/4"	AISOWNO06B-40	26.7	18.9	35.3	50.0	50.0	1.0	4 x M 8 x 35	0.45
400	1"	AISOWNO08B-40	33.4	24.4	43.8	65.0	56.0	1.0	4 x M10 x 40	0.83
400	1 1/4"	AISOWNO10B-40	42.2	32.4	51.6	75.0	64.0	1.0	4 x M12 x 50	1.20

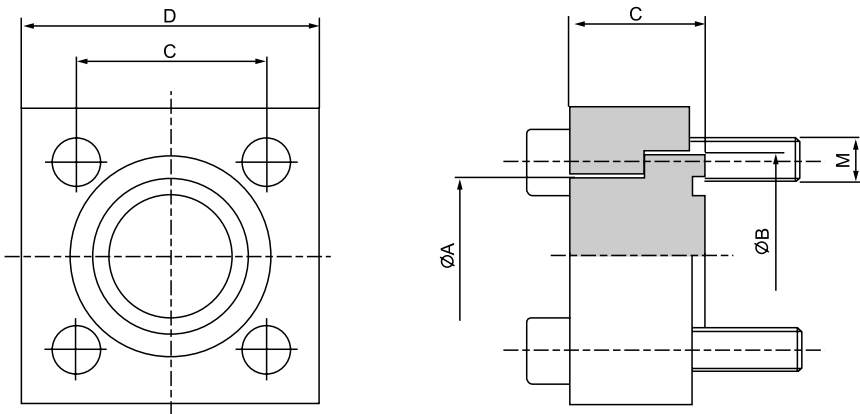
Flange to Flange

Maximum recommended working pressure kg/cm ²	Nominal flange size, in	Type	Dimensions						Screws	Weight, kg
			A	B	C	D	F	G	M	
400	1/2"	AISOWNC04B-40	21.3	13.9	29.7	45.0	100.0	2.0	4 x M 8 x 50	0.63
400	3/4"	AISOWNC06B-40	26.7	18.9	35.3	50.0	100.0	2.0	4 x M 8 x 55	0.90
400	1"	AISOWNC08B-40	33.4	24.4	43.8	65.0	112.0	2.0	4 x M10 x 65	1.73
400	1 1/4"	AISOWNC10B-40	42.2	32.4	51.6	75.0	128.0	2.0	4 x M12 x 75	2.62

All dimension are in millimeters reference only, subject to change.

Cetop - flange plug

SABS



Nominal pressure 400bar

Maximum recommended working prsssure kg/cm ²	Nominal flange size, in	Type	Dimensions					Screws	Weight kg
			A	B	C	D	E	M	
400	3/8"	SABS 4006	18	26.0	24.7	40	16	M 6 x 25	0.05
400	1/2"	SABS 4008	24	31.8	29.7	45	18	M 8 x 30	0.09
400	3/4"	SABS 4012	32	41.3	35.3	50	20	M 8 x 35	0.17
400	1"	SABS 4016	38	47.6	43.8	65	24	M 10 x 40	0.27
400	1 1/4"	SABS 4020	44	54.0	51.6	75	28	M 12 x 50	0.44
400	1 1/2"	SABS 4024	51	63.5	60.3	85	32	M 14 x 55	0.65
400	2"	SABS 4032	67	79.4	69.4	100	40	M 16 x 65	1.32
400	2 1/2"	SABS 4040	80	94.2	83.4	120	45	M 20 x 75	2.13
400	3"	SABS 4048	90	104.0	102.5	160	52	M 24 x 90	3.00
400	3 1/2"	SABS 4056	102	119.0	113.1	160	52	M 24 x 90	3.90
400	4"	SABS 4064	114	131.0	123.7	180	60	M 24 x 100	5.54