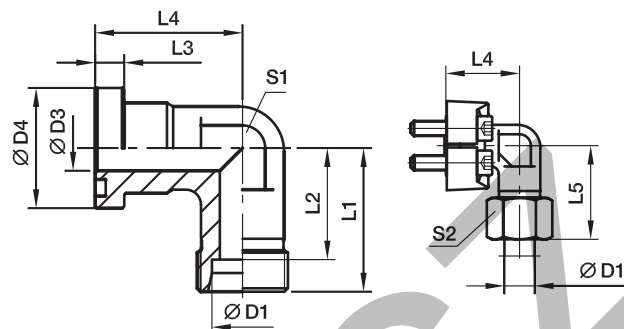



WFS SAE 90° Elbow flange adapter

SAE Flange / EO 24° cone end
(ISO 6162-1/-2)



3000 PSI Series

Nom. flange size		D1 ²⁾											Bolts		Weight (steel) kg/piece	Order code*	PN (bar) ¹⁾	
SAE (in.)	ISO (DN)		D3	D4	L1	L2	L3	L4	L5	S1	S2	(metr.)	(unc.)	CF			71	
1/2	13	12S	12	30.2	50	42.5	6.7	44	58.5	22	24	M 08×25	5/16×1 1/4	0.24	WFS32/12S	210	210	
1/2	13	15L	12	30.2	36	29.0	6.7	36	44.0	24	27	M 08×25	5/16×1 1/4	0.16	WFS32/15L	315	315	
1/2	13	16S	12	30.2	38	29.5	6.7	36	48.0	24	30	M 08×25	5/16×1 1/4	0.17	WFS32/16S	350	350	
1/2	13	18L	12	30.2	50	42.5	6.7	44	59.0	22	32	M 08×25	5/16×1 1/4	0.20	WFS32/18L	315	315	
3/4	19	16S	19	38.1	64	55.5	6.7	53	73.5	27	30	M 10×30	3/8×1 1/4	0.36	WFS33/16S	350	350	
3/4	19	18L	19	38.1	39	31.5	6.7	42	48.0	30	32	M 10×30	3/8×1 1/4	0.30	WFS33/18L	315	315	
3/4	19	22L	19	38.1	41	33.5	6.7	42	50.0	30	36	M 10×30	3/8×1 1/4	0.28	WFS33/22L	160	160	
3/4	19	20S	17	38.1	43	32.5	6.7	42	54.0	30	36	M 10×30	3/8×1 1/4	0.33	WFS33/20S	350	350	
3/4	19	25S	17	38.1	45	33.0	6.7	42	57.0	30	46	M 10×30	3/8×1 1/4	0.32	WFS33/25S	350	350	
1	25	20S	16/23	44.5	65	54.5	8.0	60	77.0	34	36	M 10×30	3/8×1 1/4	0.55	WFS34/20S	350	350	
1	25	22L	18	44.5	65	57.5	8.0	60	74.0	34	36	M 10×30	3/8×1 1/4	0.53	WFS34/22L	160	160	
1	25	28L	25	44.5	44	36.5	8.0	45	53.0	36	41	M 10×30	3/8×1 1/4	0.41	WFS34/28L	160	160	
1	25	25S	20	44.5	48	36.5	8.0	45	57.0	36	46	M 10×30	3/8×1 1/4	0.52	WFS34/25S	350	350	
1	25	30S	24	44.5	50	36.5	8.0	45	63.0	36	50	M 10×30	3/8×1 1/4	0.48	WFS34/30S	250	250	
1 1/4	32	35L	32	50.8	57	46.5	8.0	50	68.0	41	50	M 10×35	–	0.53	WFS35/35L/10³⁾	160	160	
1 1/4	32	25S	27	50.8	55	43.0	8.0	60	67.0	41	46	M 10×35	–	0.72	WFS35/25S/10³⁾	200	200	
1 1/4	32	30S	28	50.8	57	43.5	8.0	50	70.0	41	50	M 10×35	–	0.67	WFS35/30S/10³⁾	200	200	
1 1/4	32	38S	28	50.8	59	43.0	8.0	50	74.0	46	60	M 10×35	–	0.71	WFS35/38S/10³⁾	200	200	
1 1/4	32	35L	32	50.8	57	46.5	8.0	50	68.0	41	50	M 12×40	7/16×1 1/2	0.53	WFS35/35L	160	160	
1 1/4	32	25S	27	50.8	55	43.0	8.0	50	67.0	41	46	M 12×40	7/16×1 1/2	0.72	WFS35/25S	200	200	
1 1/4	32	30S	28	50.8	57	43.5	8.0	50	70.0	41	50	M 12×40	7/16×1 1/2	0.67	WFS35/30S	200	200	
1 1/4	32	38S	28	50.8	59	43.0	8.0	50	74.0	41	60	M 12×40	7/16×1 1/2	0.71	WFS35/38S	200	200	
1 1/2	38	35L	30	60.3	78	67.5	8.0	66	83.0	50	50	M 12×35	1/2×1 1/2	1.36	WFS36/35L	160	160	
1 1/2	38	42L	36	60.3	58	47.0	8.0	55	70.0	50	60	M 12×35	1/2×1 1/2	0.73	WFS36/42L	160	160	
1 1/2	38	38S	36	60.3	64	48.0	8.0	55	79.0	50	60	M 12×35	1/2×1 1/2	0.95	WFS36/38S	200	200	

¹⁾ Pressure shown = item deliverable

²⁾ L = light series; S = heavy series

PN (bar) = PN (MPa)
10

Delivery without nut and ring.

Information on ordering complete fittings
or alternative sealing materials see page N12.

³⁾ Order code for the elbow flange adapter assembled with FHS35/10CFX and M10x35 bolts.

See pages N16 and N19 for related flange halves depending on bolt sets.

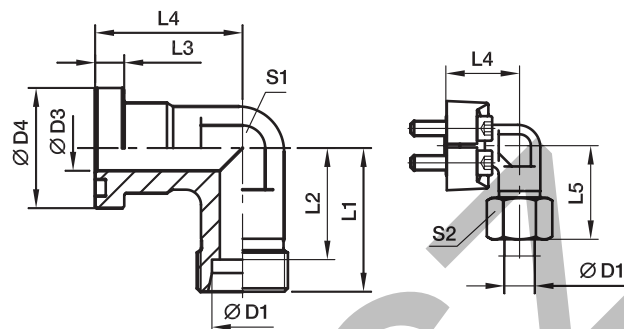
Stainless steel parts may have dimensional deviations. Additional information on request.

*Please add the suffixes below according
to the material/surface required.


Order code suffixes					
Material	Suffix surface and material	Example only flange adapter	Example incl. splitflanges, metr. bolts and O-ring	Example incl. splitflanges, UNC bolts and O-ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	WFS32/16SCFX	WFS32/16SOMDCF	WFS32/16SOMDCFU	NBR
Stainless steel	71	WFS32/16S71X	WFS32/16SOMD71	–	VIT

WFS SAE 90° Elbow flange adapter

SAE Flange / EO 24° cone end
(ISO 6162-1/-2)



6000 PSI Series

Nom. flange size		D1 ²⁾										Bolts		Weight (steel) kg/piece	Order code*	PN (bar) ¹⁾	
SAE (in.)	ISO (DN)		D3	D4	L1	L2	L3	L4	L5	S1	S2	(metr.)	(unc.)			CF	71
1/2	13	12S	12	31.8	50	42.5	7.7	44	58.5	22	24	M 08×30	5/16×1 1/4	0.22	WFS62/12S	420	420
1/2	13	14S	12	31.8	50	42.0	7.7	44	59.5	22	27	M 08×30	5/16×1 1/4	0.27	WFS62/14S	420	420
1/2	13	16S	12	31.8	38	29.5	7.7	39	48.0	24	30	M 08×30	5/16×1 1/4	0.19	WFS62/16S	420	420
3/4	19	16S	17	41.3	45	36.5	8.7	48	55.0	32	30	M 10×35	3/8×1 1/2	0.42	WFS63/16S	420	420
3/4	19	20S	17	41.3	46	35.5	8.7	48	57.0	32	36	M 10×35	3/8×1 1/2	0.42	WFS63/20S	420	400
3/4	19	25S	17	41.3	48	36.0	8.7	48	60.0	32	46	M 10×35	3/8×1 1/2	0.46	WFS63/25S	420	400
1	25	20S	16	47.6	65	54.5	9.5	62	75.0	34	36	M 12×45	7/16×1 3/4	0.60	WFS64/20S	420	400
1	25	25S	20	47.6	53	41.0	9.5	60	65.0	41	46	M 12×45	7/16×1 3/4	0.74	WFS64/25S	420	400
1	25	30S	25	47.6	55	41.5	9.5	60	68.0	41	50	M 12×45	7/16×1 3/4	0.64	WFS64/30S	420	400
1 1/4	32	25S	25	54.0	72	60.0	10.2	70	84.0	42	46	M 12×50	1/2×1 3/4	1.06	WFS65/25S/12 ³⁾	420	400
1 1/4	32	30S	30	54.0	58	44.5	10.2	68	71.0	46	50	M 12×50	1/2×1 3/4	0.88	WFS65/30S/12 ³⁾	420	400
1 1/4	32	38S	30	54.0	72	56.0	10.2	70	87.0	46	60	M 12×50	1/2×1 3/4	0.93	WFS65/38S/12 ³⁾	420	315
1 1/4	32	25S	20/28	54.0	72	60.0	10.3	70	84.0	42	46	M 14×50	–	1.06	WFS65/25S	420	400
1 1/4	32	30S	30	54.0	58	44.5	10.2	68	71.0	46	50	M 14×50	–	0.88	WFS65/30S	420	400
1 1/4	32	38S	30	54.0	72	56.0	10.2	70	87.0	46	60	M 14×50	–	0.93	WFS65/38S	420	315
1 1/2	38	30S	25	63.5	76	63.5	12.5	77	90.0	50	50	M 16×55	5/8×2 1/4	1.75	WFS66/30S	420	400
1 1/2	38	38S	32	63.5	84	68.0	12.5	80	99.0	50	60	M 16×55	5/8×2 1/4	1.46	WFS66/38S	420	315

¹⁾ Pressure shown = Item deliverable

²⁾ S = heavy series

$\frac{\text{PN (bar)}}{10} = \text{PN (MPa)}$

Delivery without nut and ring.

Information on ordering complete fittings
or alternative sealing materials see page N12.

³⁾ Order code for the elbow flange adapter assembled with FHS65/12CFX and M12×50 bolts.

See pages N16 and N19 for related flange halves depending on bolt sets.

Stainless steel parts may have dimensional deviations. Additional information on request.

*Please add the suffixes below according
to the material/surface required.

Order code suffixes					
Material	Suffix surface and material	Example only flange adapter	Example incl. splitflanges, metr. bolts and O-ring	Example incl. splitflanges, UNC bolts and O-ring	Standard sealing material (no additional suffix needed)
Steel, zinc plated, Cr(VI)-free	CF	WFS62/16SCFX	WFS62/16SOMDCF	WFS62/16SOMDCFU	NBR
Stainless steel	71	WFS62/16S71X	WFS62/16SOMD71	–	VIT