

WELDING NECK FLANGE

8). Nominal Pressure 160

The flanges with the dimensions of this standard and made of RSt.42-2 can be used at maximum 120 °C temperature with up to 160 kg/cm² of working pressure.

At higher temperature of 120 °C to 300 °C, it should be taken into consideration that the material yield point becomes low.

GASKET SURFACE, DIN 2526:

Raised face(Form E)

Groove & tongue type, DIN 2512(Form N and Form F)

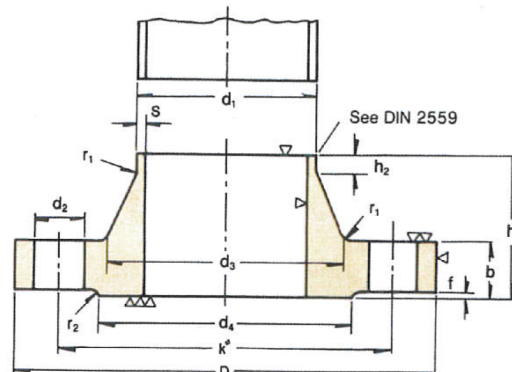
Male & female type, DIN 2513(Form V13 and Form R13)

Male & female type, DIN 2514(Form V14 and Form R14)

Male & female type, DIN 2517(Form V17 and Form R17)

Gasket surface with tapered collar for special welding, DIN 2695(Form M)

Gasket surface of lens-form sealing, DIN 2696(Form L)



(Dimensions in mm)

Nominal Pressure 160

Pipe		Flange				Neck				Raised Face				Drilling				Approx. Weight (7.85 kg/dm³) kg
Nominal Size	d ₁	D	b	k	h ₁	d ₃	s	r ₁	h ₂ ≈	d ₄	f	r ₂	d ₅ ¹⁾	Number of holes	Bolt Diameter		d ₂	
10	14 17.2*)	100	20	70	45	28 32	2	4	6	40	2	1	18	4	M12	(1/2")	14	1.09
15	20 21.3*)	105	20	75	45	32 34	2	4	6	45	2	1	24	4	M12	(1/2")	14	1.19
25	30 33.7*)	140	24	100	58	48 52	2.9	4	8	65	2	1	35	4	M16	(5/8")	18	2.66
40	44.5 48.3*)	170	28	125	64	65 70	3.6	6	10	85	3	1.5	52	4	M20	(3/4")	23	4.30
50	57 60.3*)	195	30	145	75	86 90	4	6	10	95	3	1.5	63	4	M24	(7/8")	27	6.25
65	76.1*)	220	34	170	82	108	5	6	12	105	3	1.5	85	8	M24	(7/8")	27	8.35
80	88.9*)	230	36	180	86	120	6.3	8	12	125	3	1.5	97	8	M24	(7/8")	27	9.75
100	108 114.3*)	265	40	210	100	145 150	8	8	12	145	3	1.5	124	8	M27	(1")	30	14.8
125	(146) 139.7*)	315	44	250	115	180	10	8	14	185	3	1.5	153	8	M30	(1 1/8")	33	23.0
150	(171) 168.3*)	355	50	290	128	210	12.5	10	14	215	3	1.5	181	12	M30	(1 1/8")	33	32.5
(175)	(191) 193.7*)	390	54	320	138	245	14.2	10	16	235	3	1.5	218	12	M33	(1 1/4")	36	43.5
200	216 219.1*)	430	60	360	140	278	16	10	16	260	3	1.5	243	12	M33	(1 1/4")	36	59.4
250	267 273*)	515	68	430	155	340	20	12	18	325	3	1.5	298	12	M39	(1 1/2")	42	94.5
300	318 323.9*)	585	78	500	175	400	22.2	12	18	375	4	2	345	16	M39	(1 1/2")	42	136

1) Diameter for lens sealing by DIN 2696

*) Outer diameter of pipe corresponds to ISO recommendation R64.

Material (to be specified by orderer):

RSt.42-2 by DIN 17100 for temperature ≤ 300 °C.

Weldable heat-treated steel for temperature > 300 °C.

Process: Machining the outside diameter, bore, gasket surface, bevel end for welding, spot face for nut, and bolt holes.

Marking: Every flange should be marked with the following at the outside diameter:

Company mark, nominal size, nominal pressure, and material.