upg PIPE SYSTEMS

REINERT-RITZ



SF Flanges Data Sheet

Ultimate Solutions.
Intelligent Delivery.

SF REDUCED FLANGE

SF flanges connect plastic pipe to fittings and steel flanges with matching nominal widths and pressure classes. The PE100 collar is designed as a fixed flange, backed by a stainless steel flange. This direct nominal-diameter approach lets you select the fitting one stage smaller than conventional loose flange connections, reducing project costs and simplifying installation while maintaining full pressure capacity.

The standard for valve connections and transitions to steel/cast flanges.

Specifications	Details
Collar materials	PE100 welding spigot (fixed flange design)
Backing flange material	Stainless Steel or Steel with plastic coating or corrosion-free fibre-reinforced plastic (DIN EN 10310)
Hole pattern	AS4087 PN16 (other patterns on request)
Integrated Seal	EPDM O-ring as standard (flat face on request)
Welding methods	Butt fusion or Electrofusion
Pressure capacity	Full pressure load at matching nominal diameter
Optional versions	Short leg for butt welding only; DIN EN 1092–1 PN 25 design; stainless steel or galvanised backing flange; slotted holes in PE collar for perfect alignment; flat sealing without groove and O-ring
Standards	DIN EN 12201, DIN EN 1092–1, DVS 2207, DVS 2210, DIN EN 10204, DIN EN ISO 9001, DIN EN ISO 50001, DVGW W 400–2, DVGW GW 335, AS4087 PN16
Approvals/certificates	DVGW: DV-8606BT0423 and DV-8611BT0424; DIN EN 10204 inspection certificate 3.1 on semi-finished product with MFR and OIT; PE100 material per PE100+ Association
Manufacturing	DIN EN ISO 9001 quality assurance; single-piece homogeneous PE moulded parts via injection moulding; DIN EN 10204 inspection certificates included

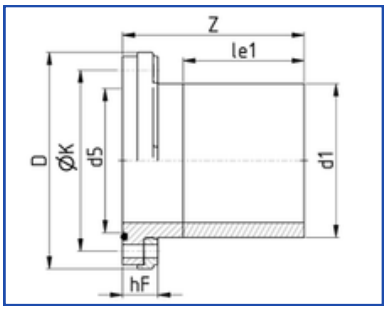
SF REDUCED FLANGE, PN 10 DRILLED

- With EPDM O-ring
- Steel backing rings, plastic coated
- Long welding end, for the use of electrofusion sockets

Optional: Stainless steel backing rings; hot dipped galvanized backing rings; flat sealing surface without flute or o-ring; PN 25 drilled; with slotted holes; NBR-O-Ring

Application: For direct connection to valves according to nominal diameter (DN)





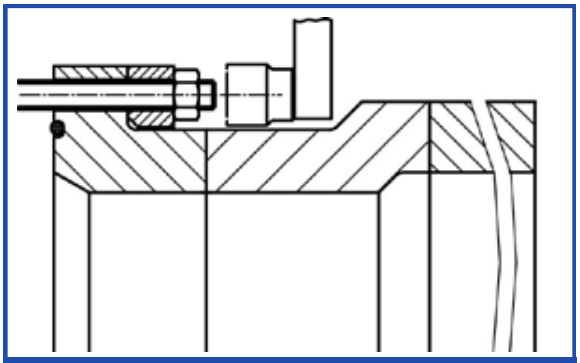
Flange: DIN EN 1092-1, PN 10

DVGW / for PE part:
DV-8606BT0423 (Ø 75 mm - Ø 225 mm)
DV-8611BT0424 (Ø 250 mm - Ø 630 mm)

Tolerances:
Z, 1_{e1}: Tab./tab/1

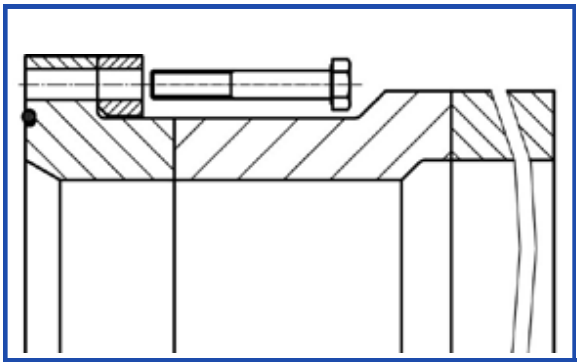
SDR	>41	33	26	>41	21	17.6	17	13.6	11	9	7.4	6	>5

								h_F		Z		Weight (kg)	
DN	d_1	d_5	le_1	ØK	n × ØL	Bolts	D	SDR 17	SDR 11	SDR 17	SDR 11	SDR 17	SDR 11
65	90	90	200	145	8x18	M16	185	36	36	255	255	3	3.2
80	110	105	200	160	8x18	M16	200	48	48	300	300	3.9	4.2
100	140	132	200	180	8x18	M16	220	38	43	260	260	3.3	4.7
125	160	157	200	210	8x18	M16	250	38	43	265	270	5	5.8
125	180	157	200	210	8x18	M16	250	38	43	315	315	6.2	6.5
150	200	183	200	240	8x23	M20	285	43	48	260	265	6.4	7.4
200	250	235	200	295	8x23	M20	340	43	53	260	270	6.6	10.8
250	315	291	200	350	12x23	M20	395	49	54	310	320	13.2	15.6
300	355	330	200	400	12x23	M20	445	55	65	270	280	15.1	19
350	400	393	300	460	16x23	M20	505	64	74	375	385	24.8	31.2
400	450	445	300	515	16x27	M24	565	66	81	375	390	31.6	40.2
400	500	445	300	515	16x27	M24	565	66	81	570	590	42.5	56.3
450	500	490	300	565	20x27	M24	615	74	88	375	400	38.4	49.3
500	560	546	300	620	20x27	M24	670	76	96	385	405	46.4	60.7
500	630	546	300	620	20x27	M24	670	76	96	590	610	64.8	87.3
600	710	643	500	725	20x30	M27	780	86	106	800	820	106.0	142.0
700	800	750	500	840	24x30	M27	895	96	116	800	820	130.0	177.0
800	900	870	500	950	24x33	M30	1015	105	130	820	840	176.0	238.0
900	1000	960	500	1050	28x33	M30	1115	114	134	840	860	232.0	296.0
1000	1200	1060	500	1160	28x36	M33	1230	129	154	930	990	344.0	472.0



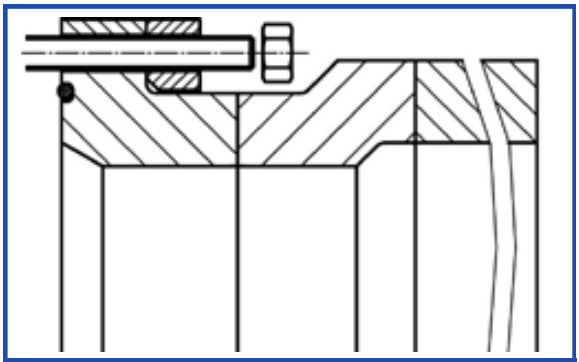
Standard for wrench

SDR 11			
		Extra long	extra short
DN	d_1	Z	Z
500	630	860	560
600	710	920	770
700	800	910	740
800	900	960	730
900	1000	970	760
1000	1200	1080	900



Extra long for bolt

SDR 17			
		Extra long	extra short
DN	d_1	Z	Z
500	630	860	560
600	710	920	770
700	800	910	740
800	900	960	730
900	1000	970	760
1000	1200	1080	900



Extra short for open-end spanner

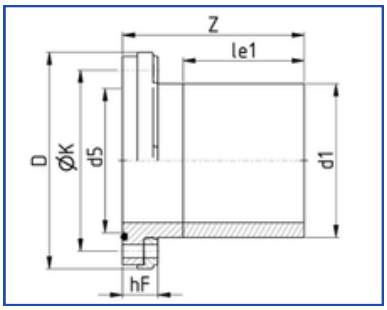
SF REDUCED FLANGE, PN 10 DRILLED

- With EPDM O-ring
- Steel backing rings, plastic coated
- Long welding end, for the use of electrofusion sockets

Optional: Stainless steel backing rings; hot dipped galvanized backing rings; flat sealing surface without flute or o-ring; PN 25 drilled; with slotted holes; NBR-O-Ring

Application: For direct connection to valves according to nominal diameter (DN)





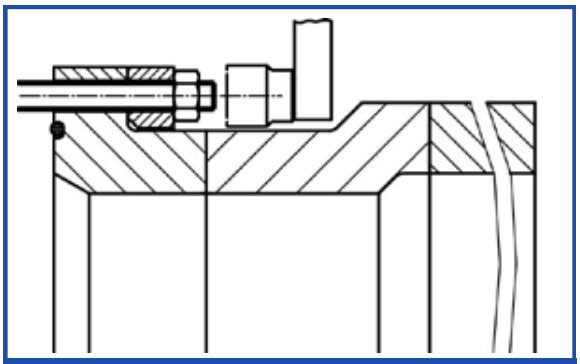
Flange: DIN EN 1092-1, PN 10

DVGW / for PE part:
DV-8606BT0423 (Ø 75 mm - Ø 225 mm)
DV-8611BT0424 (Ø 250 mm - Ø 630 mm)

Tolerances:
Z, 1_{e1}: Tab./tab/1

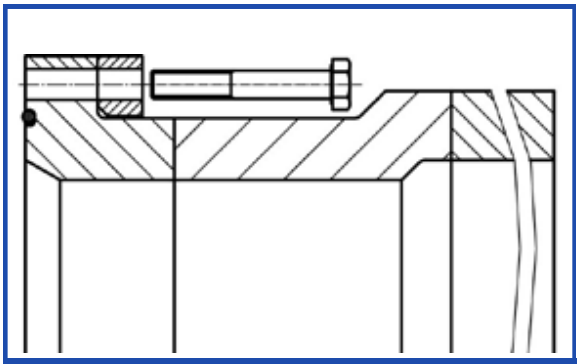
SDR	>41	33	26	>41	21	17.6	17	13.6	11	9	7.4	6	>5

								h_F		Z		Weight (kg)	
DN	d_1	d_5	le_1	ØK	n × ØL	Bolts	D	SDR 17	SDR 11	SDR 17	SDR 11	SDR 17	SDR 11
65	90	90	200	145	8x18	M16	185	36	36	255	255	3	3.2
80	110	105	200	160	8x18	M16	200	48	48	300	300	3.9	4.2
100	140	132	200	180	8x18	M16	220	38	43	260	260	3.3	4.7
125	160	157	200	210	8x18	M16	250	38	43	265	270	5	5.8
125	180	157	200	210	8x18	M16	250	38	43	315	315	6.2	6.5
150	200	183	200	240	8x23	M20	285	43	48	260	265	6.4	7.4
200	250	235	200	295	8x23	M20	340	43	53	260	270	6.6	10.8
250	315	291	200	350	12x23	M20	395	49	54	310	320	13.2	15.6
300	355	330	200	400	12x23	M20	445	55	65	270	280	15.1	19
350	400	393	300	460	16x23	M20	505	64	74	375	385	24.8	31.2
400	450	445	300	515	16x27	M24	565	66	81	375	390	31.6	40.2
400	500	445	300	515	16x27	M24	565	66	81	570	590	42.5	56.3
450	500	490	300	565	20x27	M24	615	74	88	375	400	38.4	49.3
500	560	546	300	620	20x27	M24	670	76	96	385	405	46.4	60.7
500	630	546	300	620	20x27	M24	670	76	96	590	610	64.8	87.3
600	710	643	500	725	20x30	M27	780	86	106	800	820	106.0	142.0
700	800	750	500	840	24x30	M27	895	96	116	800	820	130.0	177.0
800	900	870	500	950	24x33	M30	1015	105	130	820	840	176.0	238.0
900	1000	960	500	1050	28x33	M30	1115	114	134	840	860	232.0	296.0
1000	1200	1060	500	1160	28x36	M33	1230	129	154	930	990	344.0	472.0



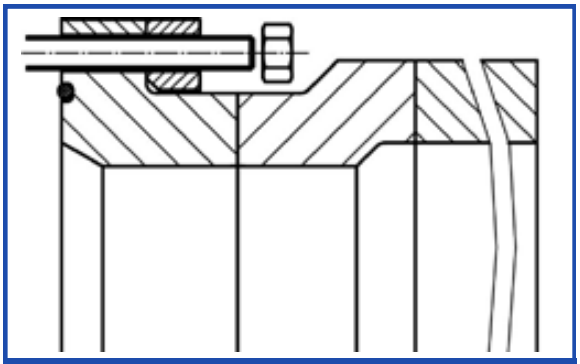
Standard for wrench

SDR 11			
		Extra long	extra short
DN	d_1	Z	Z
500	630	860	560
600	710		790
700	800	990	810
800	900	1030	830
900	1000	1060	850
1000	1200	1130	910



Extra long for bolt

SDR 17			
		Extra long	extra short
DN	d_1	Z	Z
500	630	860	560
600	710		790
700	800	990	810
800	900	1030	830
900	1000	1060	850
1000	1200	1090	870



Extra short for open-end spanner

WELLINGTON
17 Raiha Street, Porirua

AUCKLAND
3/68 McLaughlins Road, Wiri

P 0800 473 100
E sales@upg.net.nz
W upg.nz