upg PIPE SYSTEMS

REINERT-RITZ



HP Flange Data Sheet

Ultimate Solutions.
Intelligent Delivery.

HP FLANGE

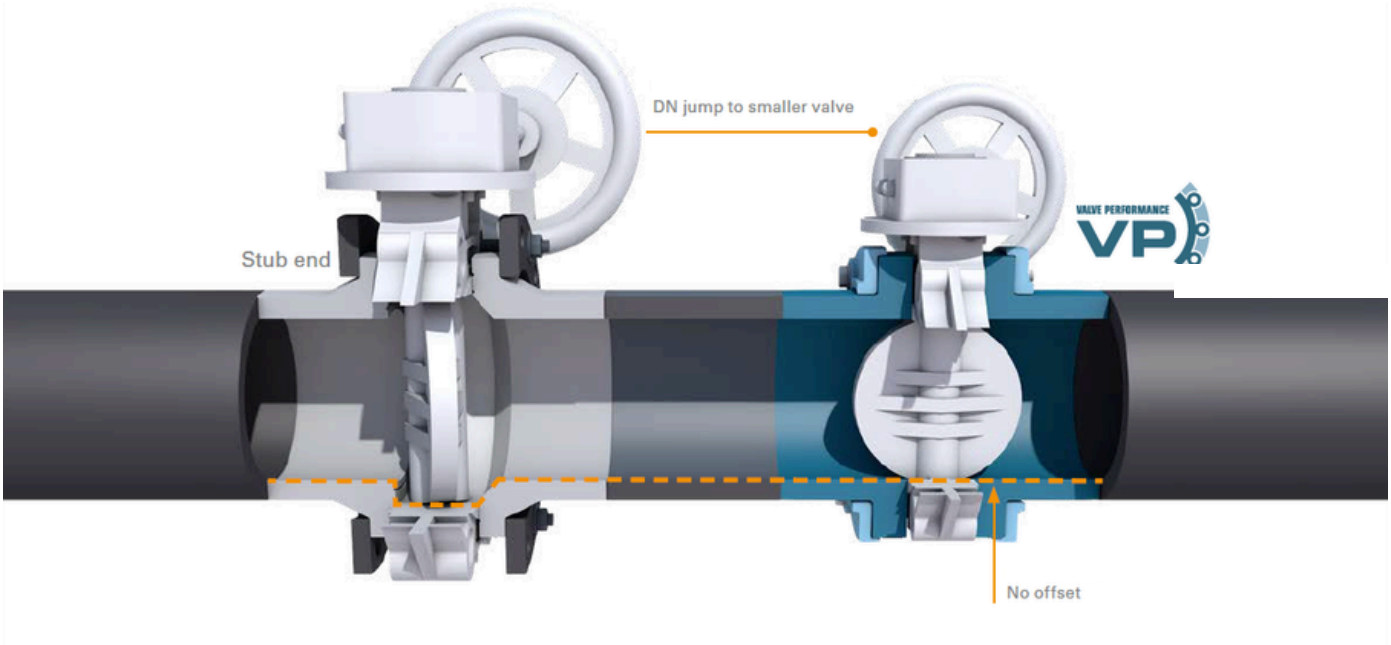
High Performance (HP) Flange provides a purpose-designed PE stub end with an integrated rotating backing ring.

HP flanges from Reinert-Ritz are high-performance solutions for the full pressure load capacity of a loose flange and backing flange connection. A special PE100 welding neck collar and a backing flange are precisely matched and captively connected to each other. The collar and flange engage positively at their connecting surfaces like a tongue and groove, transferring axial pipe forces across the entire flange surface.

Specifications	Details
Collar materials	PE100 welding spigot
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)
Seal	Profile seal recommended or alternative flat gasket
Welding methods	Butt fusion or Electrofusion
Pressure capacity	Up to 25 bar (dimension dependent)
Connection type	Captively connected unit
Optional versions	DIN EN 1092–1 PN 25 design; stainless steel backing flange; other flange grades or standards (ANSI, ASME, JIS, BS, AS, NS, SABS, etc.)
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	PE100+ Association compliant; DIN EN ISO 9001 quality assurance; single-piece homogeneous injection-moulded PE bodies; DIN EN 10204 certificates included; manufacturer certified to ISO 9001:2015 and ISO 50001:2011

THE SPECIALIST FOR VALVES AND TRANSITION TO STEEL/CAST IRON FLANGES

The further development of our special flanges is concentrated in the VP flange, which is fitted with a backing flange made of corrosion-free, fibre-reinforced plastic. Long holes in the stub enable easier installation and alignment of the flange connection. The spring effect of the flange is integrated into the design and ensures sustained bolt preload, which is a special highlight. Due to its low weight in particular, it is easier to install
and project costs are reduced.



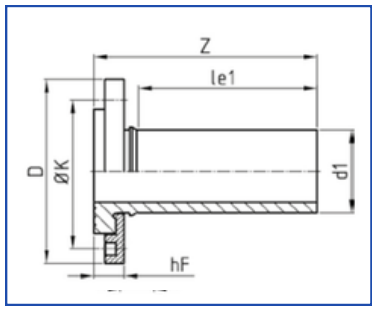


HP FLANGE, PN 10 DRILLED

- In conformity with pressure class
- Extra-long welding end up to DN 200 and long welding end from DN 250, for the use of electrofusion sockets
- Selection options:
  - Backing ring A: steel plastic coated
  - Backing ring B: high-strength plastic

Optional: stainless steel backing rings, Drilling according to PN 10, - 16, - 25, ASME, ANSI or JIS





Flange: DIN EN 1092-1, PN 1

For PE Part:
- DV-8606BT0423 (Ø 75 mm - Ø 225 mm)
- DV-8611BT0424 (Ø 250 mm - Ø 630 mm)

Tolerances:
Z, l_{e1} --> Tab./tab. 1 (ab/from DN 250)
Patented

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

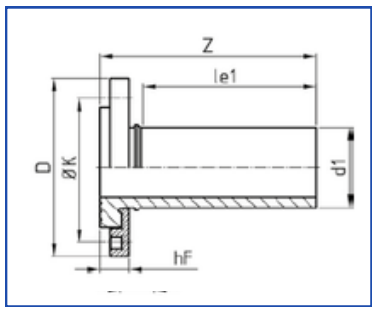
Product code	DN	d_1	l_{e1}	ØK	n x ØL	Bolts	D	Z	h_F
RRHPF-063-17-50SS	50	63	123	125	4x18	M16	165	160	28
RRHPF-075-17-65SS	65	75	130	145	8x18	M16	185	170	29
RRHPF-090-17-80SS	80	90	141	160	8x18	M16	200	180	29
RRHPF-110-17-100SS	100	110	160	180	8x18	M16	220	200	31
RRHPF-125-17-100SS	100	125	173	180	8x18	M16	220	220	38
RRHPF-140-17-125SS	125	140	195	210	8x18	M16	250	240	40
RRHPF-160-17-150SS	150	160	210	240	8x22	M20	285	260	42
RRHPF-180-17-150SS	150	180	215	240	8x22	M20	285	270	47
RRHPF-200-17-200SS	200	200	230	295	12x22	M20	340	290	50
RRHPF-225-17-200SS	200	225	250	295	12x22	M20	340	310	50
RRHPF-250-17-250SS	250	250	200	355	12x26	M24	405	260	46
RRHPF-280-17-250SS	250	280	200	355	12x26	M24	405	260	46
RRHPF-315-17-300SS	300	315	200	410	12x26	M24	460	270	48
RRHPF-355-17-350SS	350	355	200	470	16x26	M24	520	270	55
RRHPF-400-17-400SS	400	400	300	525	16x30	M27	580	380	61
RRHPF-450-17-450SS	450	450	300	585	20x30	M27	640	400	76
RRHPF-450-17-500SS	500	450	300	650	20x33	M30	715	400	78
RRHPF-500-17-500SS	500	500	300	650	20x33	M30	715	410	78
RRHPF-560-17-600SS	600	560	300	770	20x36	M33	840	420	88
RRHPF-630-17-600SS	600	630	300	770	20x36	M33	840	420	88
RRHPF-710-17-700SS	700	710	500	840	24x36	M33	910	620	92
RRHPF-800-17-800SS	800	800	500	950	24x39	M36	1025	640	99
RRHPF-900-17-900SS	900	900	500	1050	28x39	M36	1125	650	107
RRHPF-1000-17-1000SS	1000	1000	500	1170	28x42	M39	1255	660	123
RRHPF-1200-17-1200SS	1200	1200	500	1390	32x48	M45	1485	710	160

HP FLANGE (HIGH PRESSURE), PN 16 DRILLED

- In conformity with pressure class ratings
- Steel backing rings, plastic coated
- Extra long welding end up to DN 200 and long welding end from DN 250, for the use of electrofusion sockets

Optional:
- Stainless steel backing rings
- Drilling per PN 10, PN 16, PN 25, ASME, ANSI or JIS standards





Flange: DIN EN 1092-1, PN 16

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

Tolerances:
Z, l_{e1} --> Tab./tab. 1 (ab/from DN 250)

Patented

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

Product code	DN	d_1	l_{e1}	ØK	n x ØL	Bolts	D	Z	h_F
RRHPF-063-11-50SS	50	63	123	125	4x18	M16	165	160	28
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RRHPF-140-11-125SS	125	140	195	210	8x18	M16	250	240	40
RRHPF-160-11-150SS	150	160	210	240	8x22	M20	285	260	42
RRHPF-180-11-150SS	150	180	215	240	8x22	M20	285	270	47
RRHPF-200-11-200SS	200	200	230	295	12x22	M20	340	290	50
RRHPF-225-11-200SS	200	225	250	295	12x22	M20	340	310	50
RRHPF-250-11-250SS	250	250	200	355	12x26	M24	405	270	56
RRHPF-280-11-250SS	250	280	200	355	12x26	M24	405	270	56
RRHPF-315-11-300SS	300	315	200	410	12x26	M24	460	280	58
RRHPF-355-11-350SS	350	355	200	470	16x26	M24	520	290	65
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RRHPF-500-11-500SS	500	500	300	650	20x33	M30	715	420	92
RRHPF-560-11-600SS	600	560	300	770	20x36	M33	840	430	98
RRHPF-630-11-600SS	600	630	300	770	20x36	M33	840	430	98
RRHPF-710-11-700SS	700	710	500	840	24x36	M33	910	650	117
RRHPF-800-11-800SS	800	800	500	950	24x39	M36	1025	670	127
RRHPF-900-11-900SS	900	900	500	1050	28x39	M36	1125	680	142
RRHPF-1000-11-1000SS	1000	1000	500	1170	28x42	M39	1255	700	163
RRHPF-1200-11-1200SS	1200	1200	500	1390	32x48	M45	1485	750	200

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