

*The Science Of Detail*

# DIN LIFT CHECK VALVE

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## 1. USE:

Extraction, transportation and distribution systems in:  
Water, steam, gas and oil industry.

## 2. SERVICE CONDITIONS:

- 2.1. Ambient temperature: from - 35° C to + 40° C
- 2.2. Service temperature: from -46° C to +225° C

## 3. TECHNICAL CHARACTERISTICS:

3.1. Design standard: BS 1873

3.2. End-to-end dimensions:

NP 16 NP 40	EN-558-1 1 series and DIN 3202	part 1 row F1 for RF part 2 row S1 for BW
NP 64 NP 160	EN-558-1 2 series and DIN 3202	part 1 row F2 for RF part 2 row S3 for BW
NP 250	DIN 3202	part 1 row F3 for RF part 2 row S4 for BW

3.3. Connection flanges:

General Standard: DIN 2501 and DIN 2526; DIN 2512; DIN 2513

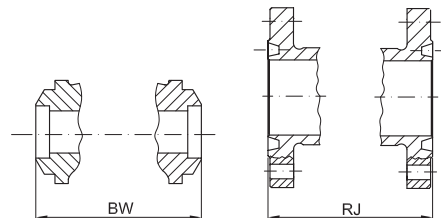
Flanges Standard:	DIN 2543 for:	NP 16
	DIN 2544 for:	NP 25
	DIN 2545 for:	NP 40
	DIN 2546 for:	NP 64
	DIN 2547 for:	NP 100
	DIN 2548 for:	NP 160
	DIN 2549 for:	NP 250

3.4. Weld ends: DIN 3239

3.5. Temperature pressure rating: DIN 2401

3.6. Testing: DIN 3230 and ISO 5208

3.7. Operation: spring activation



## 4. MATERIALS

No.	Name of Part	ASTM SPECIFICATION	
		Standard	Low Temperature Service
		-20°F÷437°F -29°C÷225°C	-50°F÷437°F -46°C÷225°C
1	Body	GP 240 GH	G 20 Mo 5
2	Disc Seat	Forged	X 10 Cr 13
		Casting	X 10 Cr Ni Ti 18.9
3	Spring	GP 240 GH	G 20 Mo 5
4	Bonnet	Carbon Steel	Stainless Steel
5	Bonnet St uds	GP 240 GH	G 20 Mo 5
6	Bonnet Nuts	42 Cr Mo 4	42 Cr Mo 4
		Ck 45	24 Cr Mo 5

No.	Name of Part	
7a	Bonnet Gasket	Plane gasket – graphite with metal filler class 150
7b		Spiral wound gasket – stainless steel with graphite filler
7c		Ring -Joint gasket – carbon steel or stainless steel, as required
8	Threaded Plug Gasket	Cu
9	Threaded Plug	Carbon Steel

TRIM Number	Nominal TRIM	Material Type	Seat Surface
			Hardness [HB]
1	F6	13 Cr	250 min
			300 min
2	304	18 Cr – 8 Ni	Manufacturer's Standard
5	HF	Co – Cr A	350 min
		Ni – Cr	
8	F6 / HF	13 Cr	250 min
		Co – Cr A	350 min
8A	F6 / HF	13 Cr	250 min
		Ni – Cr	350 min
10	316	18 Cr – 8 Ni - Mo	Manufacturer's Standard
12	316 / HF	18 Cr – 8 Ni - Mo	Manufacturer's Standard
		Co – Cr A	350 min
12A	316 / HF	18 Cr – 8 Ni - Mo	Manufacturer's Standard
		Ni - Cr	350 min

	ND	32	40	50	65	80	100	125	150	200	250	300
NP	RF: BW	180	200	230	290	310	350	400	480	600	730	850
	H	120	120	124	150	160	173	193	218	275	325	365
16	Weight	10	12	17	25	28	43	55	75	140	200	280
	BW	7	9	14	21	24	39	50	69	134	190	255
	ND	32	40	50	65	80	100	125	150	200	250	300
NP	RF: BW	180	200	230	290	310	350	400	480	600	730	850
	H	120	120	124	150	160	193	218	275	325	365	1450
25	Weight	10	12	17	28	36	46	67	88	161	220	270
	BW	7	9	14	25	31	41	62	83	157	210	265
	ND	32	40	50	65	80	100	125	150	200	250	300
NP	RF: BW	180	200	230	290	310	350	400	480	600	730	850
	H	120	120	124	150	160	173	193	218	275	325	365
40	Weight	10	12	17	28	36	46	67	88	161	220	270
	BW	7	9	14	25	31	41	62	83	157	210	265
	ND	32	40	50	65	80	100	125	150	200	250	300
NP	RF	260	260	300	340	380	430	500	550	650	775	900
	BW	180	210	250	340	380	430	500	550	650	775	900
64	H	135	135	140	155	165	192	245	265	310	350	400
	Weight	23	30	42	60	75	105	123	190	380	450	600
	BW	19	26	38	56	69	98	115	182	310	440	585

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