

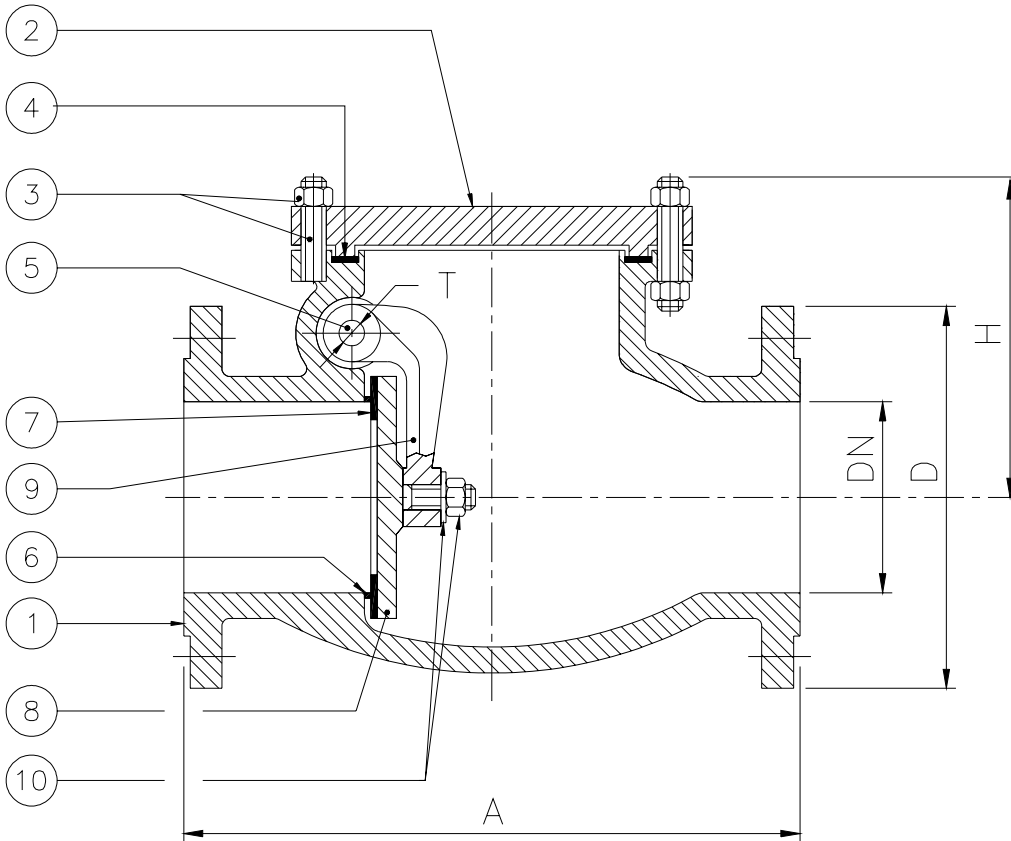
Swing Check Valve

PN 100 DN 50 - DN 400

Flanges PN 100 or PN 63



Fig. 290-590



0948

Rel. 4.0

Standard features:

- Design EN 12516
- Face to face EN 558 series 2
- Flanges EN 1092-1/21/B2
- Materials EN 10213
- EN 10269
- EN 10088
- Bolts and nuts EN 1515-1
- Welding overlay AD-M HP 0
- Testing EN 12266
- Marking EN 19
- Certificates EN 10204

Optional versions:

- AD 2000 - A4
- TRD 110
- DIN 3230 Part 4
- DIN 3230 Part 5
- DIN 3230 Part 6
- TRbF 131
- TRbF 301
- TRbF 302
- TA-Luft
- With flanges PN 40 or PN25
- With flanges form A, B1, C, D, E, F, G, H
- With butt welding ends (EN 12627 / EN 12982)
- With special devices (see page 44)

	DESCRIPTION	FIG. 290	FIG. 390	FIG. 390-J	FIG. 490	FIG. 490-H	FIG. 590
1	Body	1.0619	1.4581	1.4308	1.7357	1.7379	1.1138
2	Cover	1.0425 ⁽⁵⁾	1.4571	1.4301	1.7335	1.7380	1.0508
3	Bolts	1.7225 ⁽⁴⁾	1.4301 ⁽⁴⁾	1.4301 ⁽⁴⁾	1.7711 ⁽⁴⁾	1.7711 ⁽⁴⁾	1.7225 ⁽⁴⁾
3	Nuts	1.1191 ⁽⁴⁾	1.4301 ⁽⁴⁾	1.4301 ⁽⁴⁾	1.7225 ⁽⁴⁾	1.7225 ⁽⁴⁾	1.7225 ⁽⁴⁾
4	O Gasket	Graphite + SS ⁽³⁾	Graphite + SS ⁽³⁾	PTFE ⁽³⁾	Graphite + SS ⁽³⁾	Graphite + SS ⁽³⁾	Graphite + SS ⁽³⁾
5	x Hinge pin	1.4021 ⁽¹⁾	1.4571 ⁽¹⁾	1.4301 ⁽¹⁾	1.4021 ⁽¹⁾	1.4021 ⁽¹⁾	1.4021 ⁽¹⁾
6	Body seats	1.4502 ⁽²⁾	1.4581 ⁽²⁾	1.4308 ⁽²⁾	1.4502 ⁽²⁾	Stellite ⁽²⁾	1.4502 ⁽²⁾
7	Disk seats	1.4502 ⁽²⁾	1.4581 ⁽²⁾	1.4308 ⁽²⁾	1.4502 ⁽²⁾	Stellite ⁽²⁾	1.4502 ⁽²⁾
8	x Disk	1.0425 ⁽⁵⁾	1.4581	1.4301	1.7335	1.7380	1.0508
9	Hinge	1.0619	1.4581	1.4308	1.7357	1.7379	1.1138
10	Stud	1.7225 ⁽⁴⁾	1.4401 ⁽⁴⁾	1.4301 ⁽⁴⁾	1.7711 ⁽⁴⁾	1.7711 ⁽⁴⁾	1.7225 ⁽⁴⁾
10	Nut	1.1191 ⁽⁴⁾	1.4401 ⁽⁴⁾	1.4301 ⁽⁴⁾	1.7225 ⁽⁴⁾	1.7225 ⁽⁴⁾	1.7225 ⁽⁴⁾

⁽¹⁾ Also available on request 1.4571, 1.4301, 1.3964, Hastelloy, or other materials.

⁽²⁾ Also available on request stellite, 1.4462 (duplex), 1.4430, 1.4316, Hastelloy, or other materials.

⁽³⁾ Also available on request PTFE, Gore-tex, graphite, or other materials and different desing (e.g. cam-profile).

⁽⁴⁾ Also available on request 1.7225 / 1.1191, 1.7711 / 1.7225, 1.4401, 1.4301, A4-70 or other materials.

⁽⁵⁾ 1.0044 for swing check valves with DN over 125 mm.

O recommended spare parts for 2 years standard service; x recommended spare parts for 5 years standard service.

Dimensions

	DN	A	D	H	T	Kg
PN 100	50	300	180	175	15	25
	80	380	215	200	15	40
	100	430	250	245	15	60
	125	500	295	260	18	100
	150	550	345	275	18	130
	200	650	415	315	25	200
	250	775	470	360	25	260
	300	900	530	415	25	420
	350	1025	600	490	30	650
	400	1150	670	530	40	710

Pressure Temperature Ratings (°C / bar)

	PN	-195	-150	-100	-50	-10	0	20	100	150	200	250	300	350	400	425	450	475	500	525	550	575	600	
Fig. 290 ⁽⁵⁾	100								98,7	93,3	85,6	77,8	71,1	64,4	60,0	57,8	47,3	36,9						
Fig. 390 ⁽⁴⁾	100			100	100	100	100	96,4	82,2	76,7	71,1	67,8	64,4	61,1	57,8	56,7	55,6	54,4	53,3	52,2	51,1			
Fig. 390-J	100	100	100	100	100	100	100	94,2	71,1	63,3	55,6	52,2	48,9											
Fig. 490 ⁽⁴⁾ / ⁽⁷⁾	100														95,6	88,9	86,7	84,4	68,2	52,0	38,2	24,4		
Fig. 490-H ⁽⁷⁾	100															98,4	96,9	78,7	60,4	44,9	29,3	20,9	12,4	
Fig. 590	100				100	100	100	97,8	88,9	84,4	80,0	77,8	75,6											

Please, in the inquiry and in the order, specify always the maximum service temperature when it's over 100 °C.

If the valves are provided with flanged connection PN 63 the maximum allowable pressure should be proportionally reduced.

⁽⁵⁾ Supplied suitable for service temperature up to 300°C and for higher temperatures only on request.

⁽⁴⁾ Suitable over 450 °C only if provided with stellite seats. ⁽⁷⁾ Suitable over 530 °C only if provided with 1.3964 pin.