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Поворотные обратные клапаны с крышкой на болтах 270, 370, 370-J, 470, 470-H, 570

APPLICATIONS

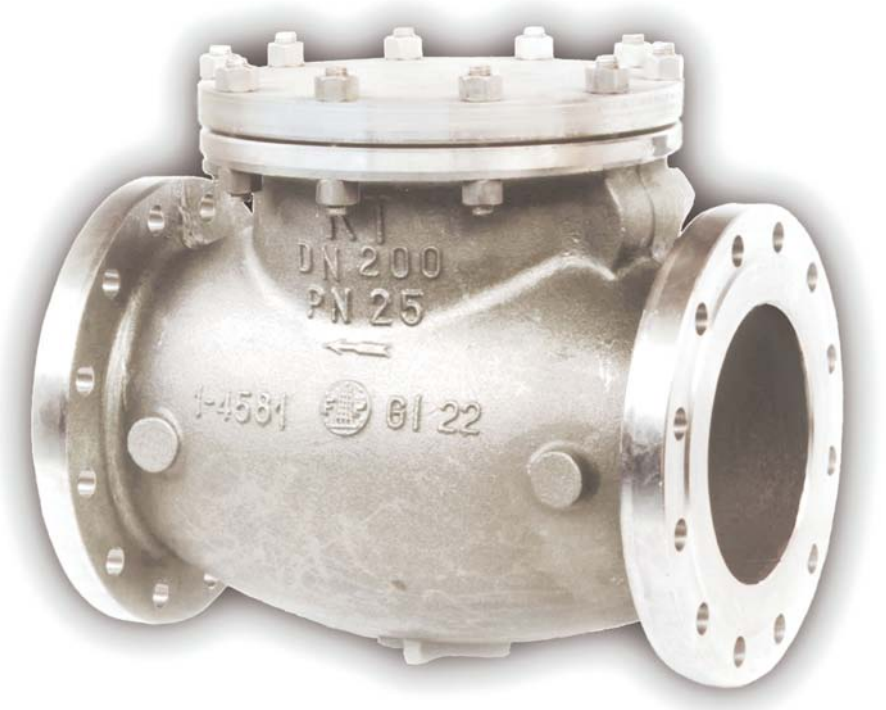
The swing check valves are used to pre-vent flow reversal in piping systems. The swing check is the most efficient non-re-turn valve due to the minimum pressure drop because his “full open” design. Typi-cal applications are:

- § water
- § chemicals
- § petrochemicals
- § steam
- § gases
- § liquid gases (cryogenic service)

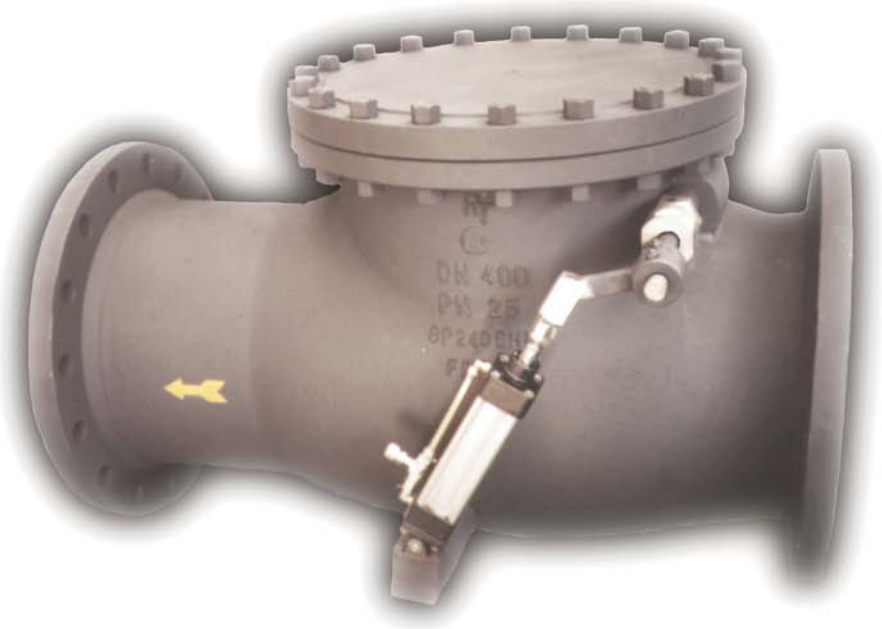
CONSTRUCTION DETAILS

Body

The body geometry is designed as the re-sult of stress calculations to achieve the most regular distribution of the internal forces dues to pressure action.
The body material is high quality cast steel.
The seat surface is covered by a wear re-sistance stainless steel deposited by weld-ing overlay with a hardness difference of+50 HB in comparison with the disk seats. On request the seat surface can be cov-ered also with stellite or other special ma-terial overlays.



Swing Check Valves



Lever and counterweight

On request the swing check valve can be provided with lever with counterweight to balance the weight of the disk and make the closing more soft.

This optional device is suggested for diam-eters over 200 mm where the weight of the disk is relevant. Also in vertical installa-tion the counterweight can reduce the adverse influence of gravity on the func-tioning of the swing check valve.

On request the counterweight can be ad-justable to be easily adapted to the spe-cific operating conditions.

Hydraulic brake

Where the flow reversal is very quick the swing check valve shall be provided with a hydraulic brake connected to the lever. The brake, lengthening the time of clos-ing to the selected value, avoids the risk that the swing check valve, due to the quick closing of the disk, can cause a water hammer in the pipeline. Different types of brake are available de-pending on customer requirements.

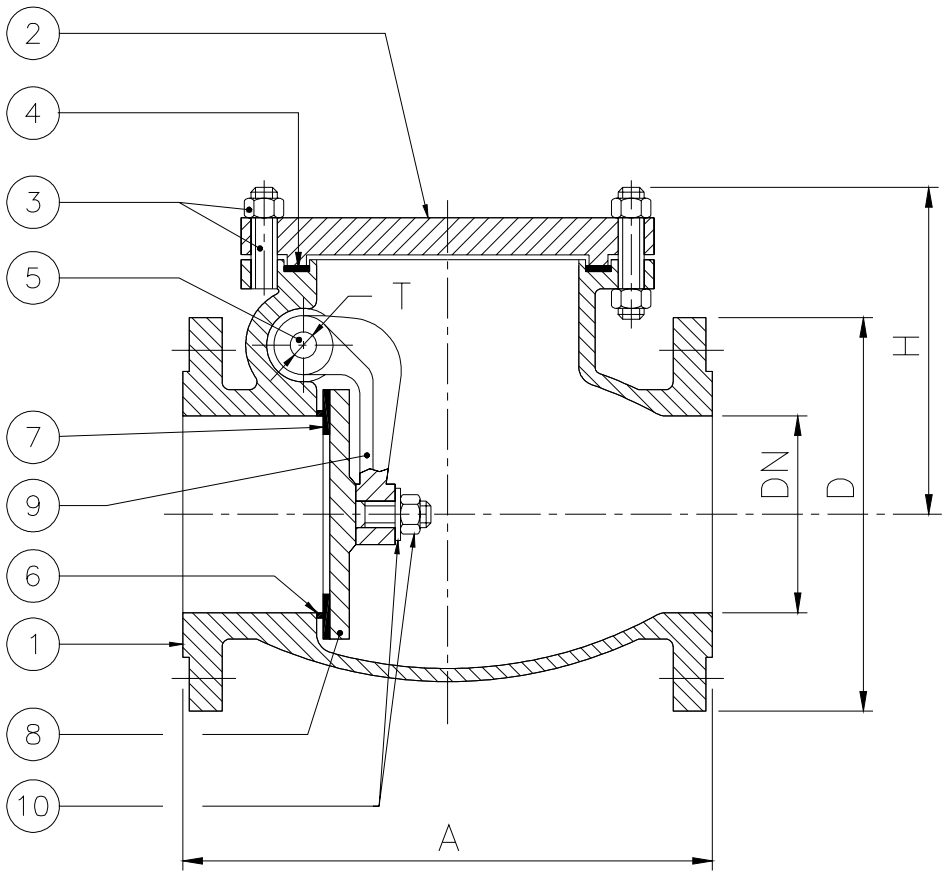
All the brakes are provided by a pin valve to set-up the closing time to the required value.

Swing Check Valve

PN 25 DN 50 - DN 600

Flanges PN 25 or PN 16

Fig. 270-570



0948

Rel. 5.0

Standard features:

☑ Design	EN 12516
☑ Face to face	EN 558 series 48
	DIN 3202 F6
☑ Flanges	EN 1092-1/21/B1
☑ 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 or 302
- ☐ ATEX
- ☐ TA-Luft
- ☐ With flanges PN 10 or PN 6
- ☐ With flanges form A, B2, C, D, E, F, G, H
- ☐ With butt welding ends (EN 12627)
- ☐ With special devices (see page 52)

Material Specification

		DESCRIPTION	FIG. 270	FIG. 370	FIG. 370-J	FIG. 470	FIG. 470-H	FIG. 570
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)	1.4430 (2)	1.4316 (2)	1.4502 (2)	Stellite	1.4502 (2)
7		Disk seats	1.4502 (2)	1.4571 (2)	1.4301 (2)	1.4502 (2)	Stellite	1.4502 (2)
8	x	Disk	1.0425 (5)	1.4571	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 25	50	200	165	160	10	15
	65	240	185	170	15	24
	80	260	200	175	15	28
	100	300	235	195	15	38
	125	350	270	210	18	58
	150	400	300	240	18	96
	200	500	360	280	18	131
	250	600	425	320	24	212
	300	700	485	365	24	273
	350	800	555	425	28	440
	400	900	620	440	28	465
	450	1000	670	520	36	750
	500	1100	730	620	36	1100
	600	1300	845	710	40	1500
	700	1500	960	750	50	2100
	800	1700	1085	810	60	2800
	900	1900	1185	880	70	3050

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. 270(5)	25					25.0	25.0	24.7	23.3	21.4	19.4	17.8	16.1	15.0	14.4	11.8	9.2						
Fig. 370(6)	25			25.0	25.0	25.0	25.0	24.1	20.6	19.2	17.8	16.9	16.1	15.3	14.4	14.2	13.9	13.6	13.3	13.1	12.8		
Fig. 370-J	25	25.0	25.0	25.0	25.0	25.0	25.0	23.6	17.8	15.8	13.9	13.1	12.2										
Fig. 470(6)(7)	25					25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	23.9	22.2	15.7	9.2	11.1	13.0	9.6	6.1		
Fig. 470-H(7)	25					25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.6	24.2	19.7	15.1	11.2	7.3	5.2	3.1
Fig. 570	25				25.0	25.0	25.0	24.4	22.2	21.1	20.0	19.4	18.9										

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 10 or PN 6 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.
(6) Suitable over 450 °C only if provided with stellited seats. (7) Suitable over 530 °C only if provided with 1.3964 pin.

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