



SWING CHECK VALVES

640 AA PN 10-40 DN 50-250

Design highlights

- Integral armoured body seat, swing check disc made of 13% Cr-steel or armoured with 17% Cr-steel
- Swing check disc with spherical pin in the valve lever
- Valve lever mounted on the valve shaft by a separate bearing

Advantages

- Long-lasting effective impermeability at closure
- Better mobility and adjustment of the disc on the body seat
- Improved material combination and wear characteristics

Version

- Cast body
- Available with flanged and butt-weld connections

Operating data

- Operating pressure up to 40 bar
- Operating temperature up to 400 °C

Materials

- 1.0619

Other materials available on request.

Flow media

Depending on the choice of materials, the swing check valves can be used for water, steam, gas, oil or other non-aggressive media.

Applications

In chemical, industrial and power plants.

Note: The opening angle of the swing check disc should be greater than 10° to ensure stable flow conditions.

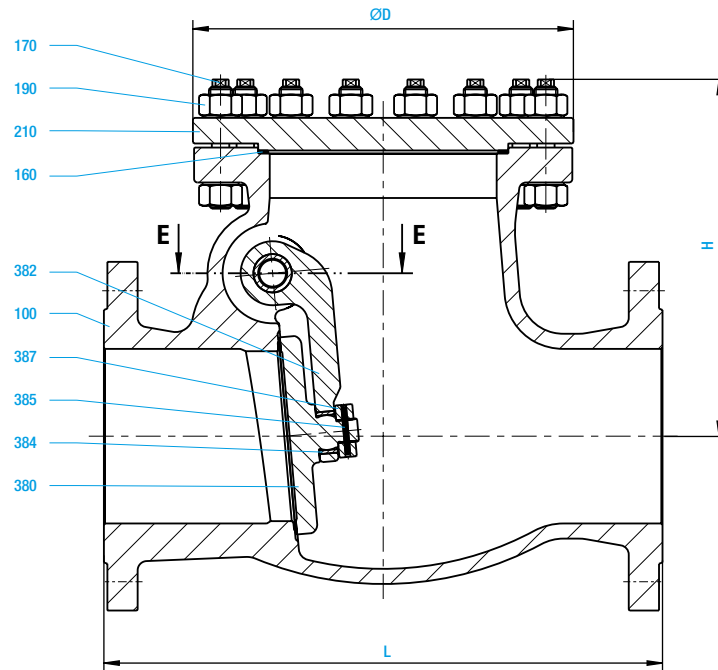
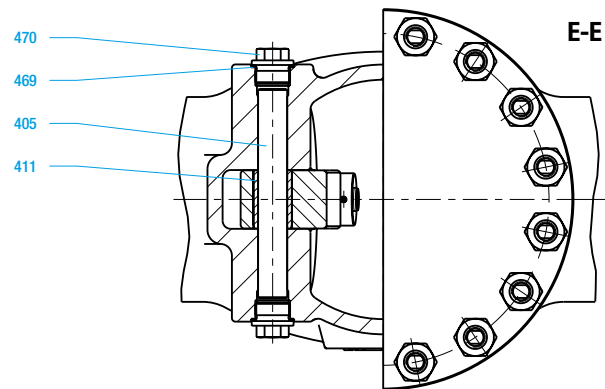
Area of application

Permissible operating pressure [bar(g)] at calculation temperature [°C] ¹⁾

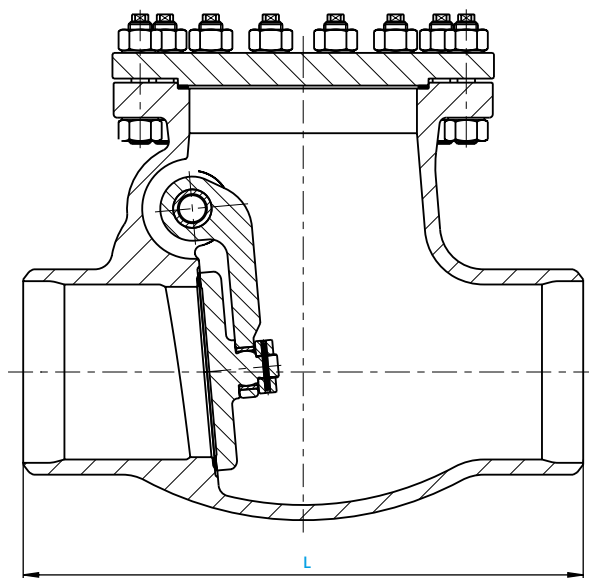
Material	PN	-10	20	120	200	250	300	350	400
1.0619	10-16	16	16	16	14	13	11	10	8
	25	25	25	25	22	20	17	16	13
	40	40	40	40	35	32	28	24	21

1) Operating temperature = calculation temperature minus temperature surcharge according to the standard codes.

Flange version



Butt-weld end version



Materials

Item	Designation	1.0619 (11)
100	Body	1.0619
	Body seat	Cr17
160	Gasket	Graphite ²⁾
170	Bolt	1.1181
190	Hexagonal nut	1.1181
210	Cover	1.0460
380	Swing check disc	1.4021
	Armoured with	Cr17 ¹⁾
382	Disc lever	1.0425
384	Bearing	1.4006
385	Tension pin	1.4370
387	Round nut	1.4021
405	Valve shaft	1.4021
411	Guide sleeve	1.4006
469	Gasket	2.4066
470	Locking bolt	1.7709

Spare parts

Other materials available on request.

1) DN 125 1.0460 armoured with Cr17

2) DN 150 grooved profile with graphite layer

Dimensions/mm

DN	ØDS	L	H	ØB
50	50	230	165	172
65	65	290	180	212
80	80	310	210	227
100	100	350	220	257
125	123	400	250	292
150	146	480	310	327
200	198	600	365	412
250	246	730	455	462

Weights/kg and Kvs value m³/h

DN	Flange	Butt-weld ends	Kvs [m³/h]
50	19	14	100
65	31	23	170
80	36	27	256
100	52	40	400
125	70	56	625
150	104	84	900
200	188	151	1600
250	295	231	2500