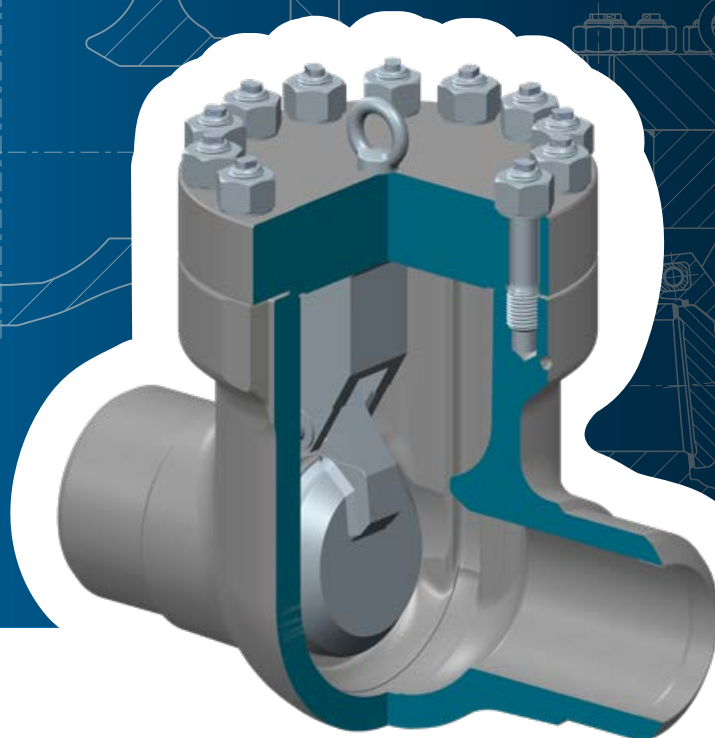


ASME

version
available

SWING CHECK VALVES

640 AA PN 63-160 (PD 18) DN 50-250



Design highlights

- Forged body
- Integral seat
- Valve lever mounted on the valve shaft by a sliding block
- Bolted cover
- Swing check disc attached to cover

Advantages

- Free of pores and cavities compared to cast steel
- No gap corrosion
- Optimum adjustment of the disc on the body seat thanks to movement of the sliding block
- Easy to service, cover and disc can be removed and reinstalled together

Version

- Body forged
- Swing check valve with internal shaft
- Swing check disc attached to the cover
- Available with flanged and butt-weld connections

Operating data

- Operating pressure, butt-weld ends, up to 254 bar (DIN 2401; DIN EN 1092-1 or DIN EN 12516-1)
- Operating pressure, flange ends, up to 160 bar (DIN 2401 or DIN EN 1092-1)
- Operating temperature up to 600 °C

Materials

- 1.5415
- 1.7335
- 1.7383

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.

Max. area of application for butt-weld ends ³⁾

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

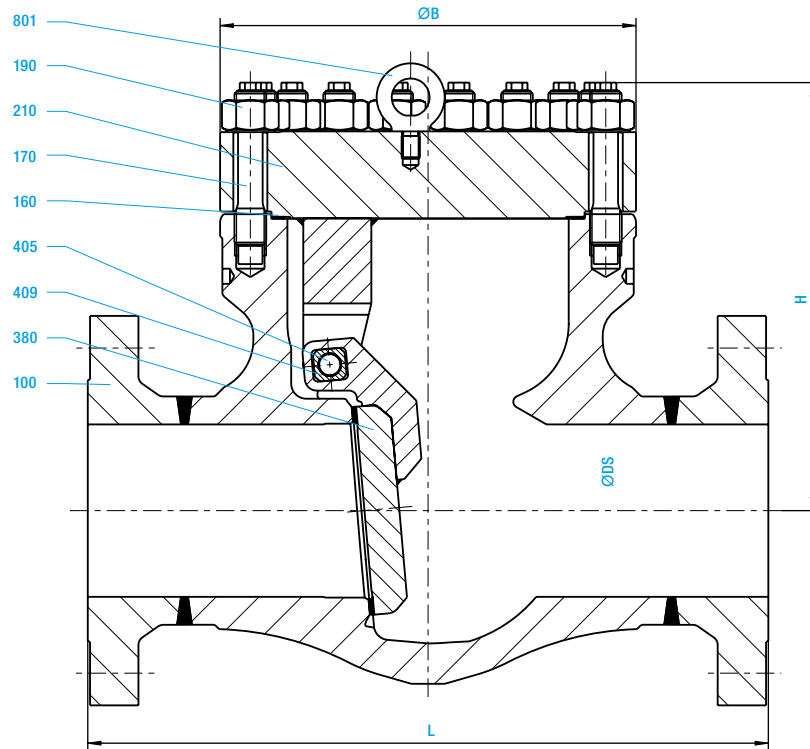
Material	PD	20	50	100	120	150	200	250	300	350	400	420	430	440	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600
1.5415	18	258	246	229	219	204	185	170	146	141	136	134	133	132	130	129	128	112	88	67	53	42							
1.7335	18	258	249	234	228	219	205	194	180	170	161	156	155	153	150	149	148	147	133	112	89	72	58	46	37	30			
1.7383 ²⁾	18	258	250	239	233	224	210	205	194	180	170	166	164	162	159	156	155	153	131	115	100	88	76	66	56	50	43	37	33

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

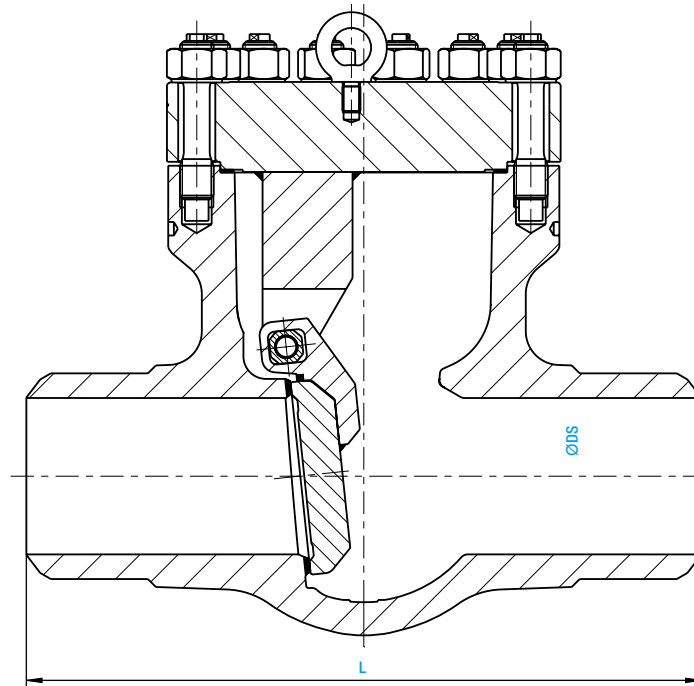
2) For temperatures > 570 °C, stem material 1.4980, seat armoured with Stellite, and high-temperature packing.

3) Max. area of application for flange ends or pressure ratings valves; see technical appendix from page 138.

Flange version



Butt-weld end version



Materials

Item	Designation	1.5415 (42)	1.7335 (44)	1.7383 (45)
100	Body	1.5415	1.7335	1.7383
	Body seat	Stellite	Stellite	Stellite
160	Gasket	Graphite	Graphite	Graphite
170	Bolt	1.7709	1.7709	1.7709
190	Hexagonal nut	1.7218	1.7218	1.7218
210	Cover	1.5415	1.7335	1.7383
380	Swing check disc	1.5415	1.7335	1.7383
	Armoured with	Stellite	Stellite	Stellite
405	Valve shaft	1.4021	1.4021	1.4021
409	Sliding block	5.3106	5.3106	5.3106
801	Ring bolt	1.0401	1.0401	1.0401

Spare parts

Other materials available on request.

Dimensions/mm

PN	ØDS	63-100 L	160 L	H	ØB
50	47	250	300	220	192
80	74	380	390	275	236
100	95	430	450	320	265
150	139	550	600	415	350
200	183	650	750	510	440
250	228	775	900	595	550

Weights/kg

DN	Flange		Butt-weld ends	
	PN63-100	PN160	PN63-100	PN160
50	31	32	42	43
80	58	59	73	74
100	86	88	106	110
150	202	209	244	256
200	389	407	458	490
250	729	765	826	897