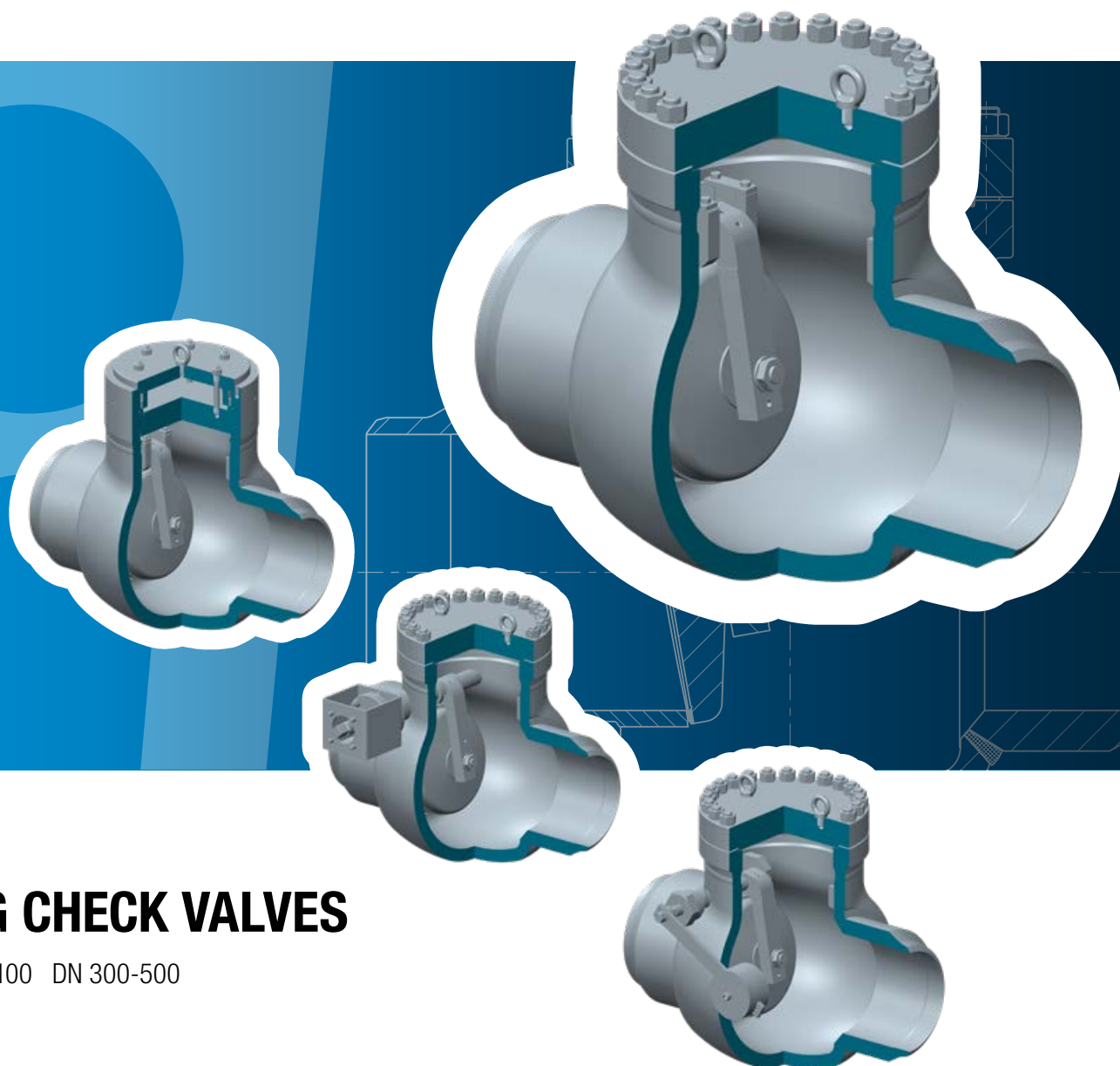




SWING CHECK VALVES

640 AA PN 100 DN 300-500

Design highlights

- Seat armoured with Stellite
- Spherical pin on the swing check disc

Advantages

- Effective impermeability in seat
- Better mobility and adjustment of the disc to the body seat

Version

- Welded steel plate body
- Swing check valve with internal shaft
- Swing check disc attached in the body
- Available with flanged and butt-weld connections

Optional:

- Available with external valve shaft (640 AE)
- With pressure-sealing cover as per VGB guidelines (640 AB)
- Available as freewheel swing check valve with part-turn actuator (640 DJ)

Materials

- 1.0425
- 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, and in shipbuilding.

Operating data

- Operating pressure, butt-weld ends PN100 (DIN 2401; DIN EN 1092-1 or DIN EN 12516-1)
- Operating pressure, flange ends PN100 (DIN 2401 or DIN EN 1092-1)
- Operating temperature up to 530 °C

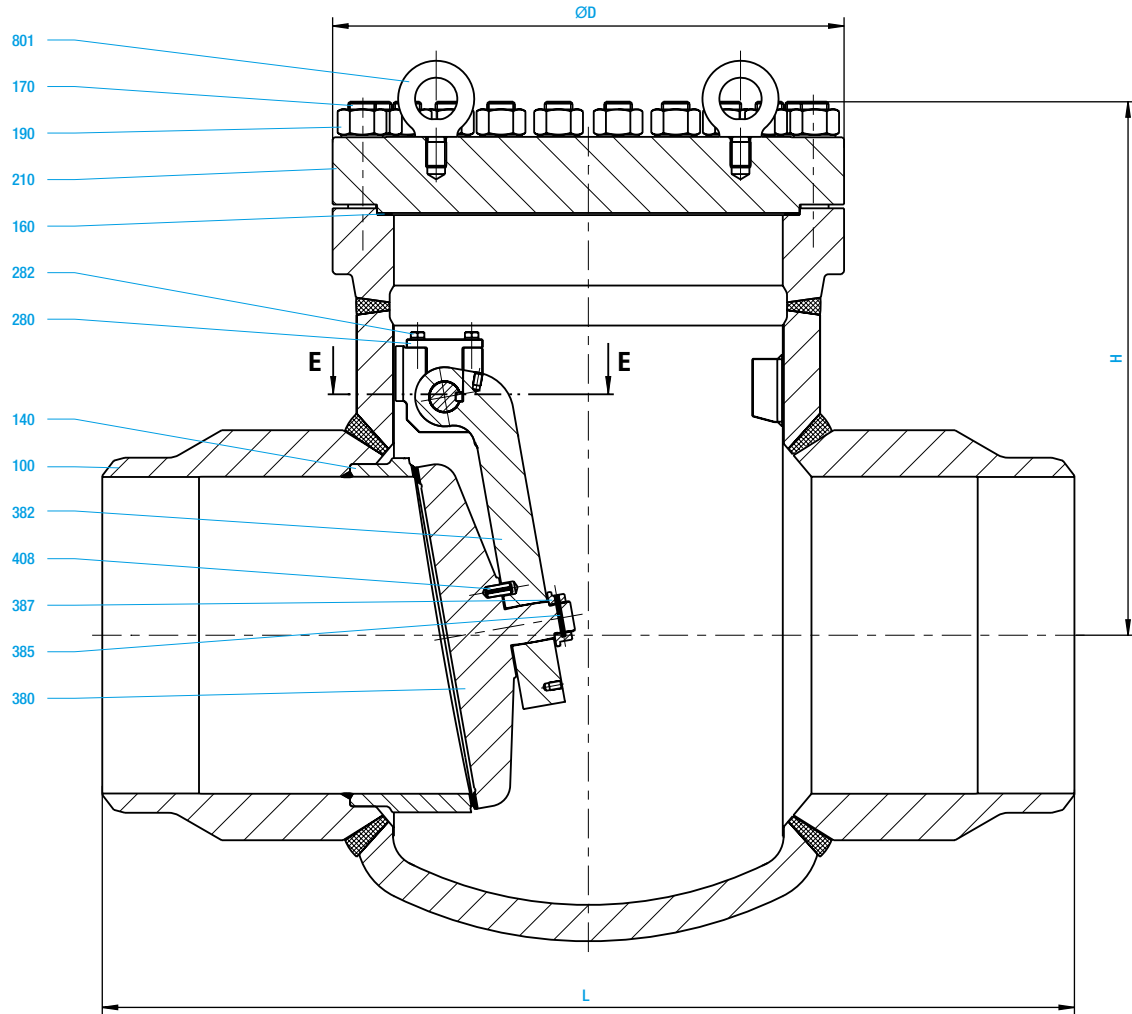
Max. area of application for butt-weld ends ²⁾

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

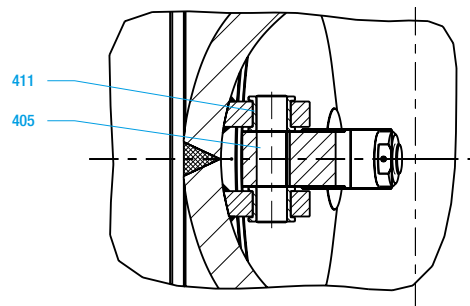
Material	20	120	150	200	250	300	325	350	375	380	400	420	425	450	460	470	475	480	490	500	510	515	520	525	530
1.0425	100	100	92.5	84	76.8	69.6	67.2	64.8	62.4	61.9	60	54.9	51.9	36.8	31.8	26.7	24.5	22.4							
1.5415	100	100	100	100	100	87	83.3	80.9	77.8	77.2	74.7	72.4	72	70	66.3	65.8	65.5	65.3	55.3	45.3					
1.7335	100	100	100	100	100	100	97.6	95.2	93	92.6	91	89.4	89	87	85	83	82	80.4	77.2	74	62	55.5	49.2	45.9	42.6
1.7383	100	100	100	100	100	100	98.8	97.6	95.2	94.7	92.8	90.9	90.4	88	84.9	83	82	80.4	77.1	73.8	63.5	60.3	57.1	53.9	50.2

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

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



E-E



Materials

Item	Designation	1.0460 (22)	1.5415 (42)	1.7335 (44)	1.7380 (45)
100	Body	1.0460	1.5415	1.7335	1.7380
140	Seat ring	Body	Body	Body	Body
	Armoured with	Stellite	Stellite	Stellite	Stellite
160	Gasket	Grooved profile with graphite layer	Grooved profile with graphite layer	Grooved profile with graphite layer	Grooved profile with graphite layer
170	Stud bolt	1.7711	1.7711	1.7711	1.7711
190	Hexagonal nut	1.7225	1.7225	1.7225	1.7225
210	Cover	1.0460	1.5415	1.7335	1.7383
280	Bracket	1.0425	1.5415	1.7335	1.7380
282	Hexagonal bolt	A4-70	A4-70	A4-70	A4-70
380	Swing check disc	1.0460	1.5415	1.7335	1.7383
	Armoured with	Stellite	Stellite	Stellite	Stellite
382	Disc lever	1.7383	1.7383	1.7383	1.7383
385	Tension pin	1.4310	1.4310	1.4310	1.4310
387	Round nut	1.4923	1.4923	1.4923	1.4923
405	Valve shaft	1.4122	1.4122	1.4122	1.4122
408	Tension pin	1.4310	1.4310	1.4310	1.4310
411	Bearing	5.3103	5.3103	5.3103	5.3103
801	Ring bolt	1.0401	1.0401	1.0401	1.0401

Spare parts

Other materials available on request.

Dimensions/mm and weights/kg

DN	ØDS	L	H	ØB	kg
300	276	900	540	480	585
350	330	1025	570	530	850
400	375	1150	632	605	1100
450	419	1220	683	670	1530
500	464	1400	738	770	2077