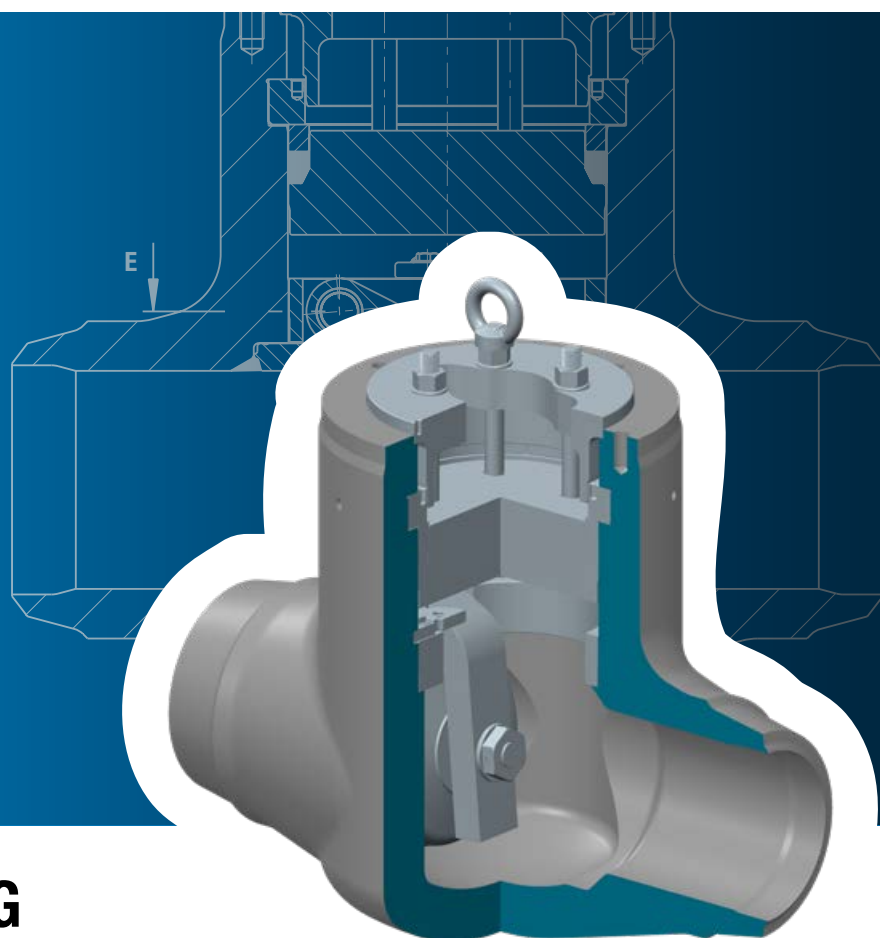


ASME

version
available


HIGH PRESSURE SWING CHECK VALVES

DRI 26 640 AB PD 25 / PD 40 DN 65-300

Design highlights

- Body and pressure sealing cover forged steel
- Hollow forged body
- Seat generally armoured with Stellite
- Valve lever mounted in separate retaining ring
- Spherical pin on the swing check disc
- Pressure sealing cover
- Cover can be used to dismantle the pressure sealing bonnet

Advantages

- Free of pores and cavities compared to cast steel
- No pressure-bearing weld seams
- Long-lasting effective impermeability at closure
- The disc's contact pattern can be checked before the pressure sealing bonnet is inserted
- Better mobility and adjustment of the disc to the body seat
- Increasing external impermeability as operating pressure rises
- No special tools needed to dismantle the cover

Version

- Forged body
- Swing check valve with internal shaft
- Swing check disc attached to the body insert
- Pressure sealing cover as per VGB guidelines

Operating data

- Operating pressure up to 680 bar
- Operating temperature up to 650 °C

Materials

- 1.0460
- 1.4901
- 1.4903
- 1.5415
- 1.6368
- 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.

Area of application

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

Material	PD	20	50	100	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650
1.0460	25	250	250	250	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																	
1.5415	25	300	300	300	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64												
1.7335	25	300	300	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46									
1.7383 ²⁾	25	300	300	300	300	300	300	294	272	258	255	252	249	246	243	240	237	234	224	199	174	152	132	115	100	85	75	65	56	49						
1.6368	25	410	410	410	410	410	410	410	410	410	410																									
1.4903 ²⁾	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	418	383	372	344	316	290	263	238	213	191	169	150	132	115	100	85	75	64
1.4901 ²⁾	25	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	423	397	370	345	320	297	275	252	230	208	186	166	147	127	110	95	82

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.

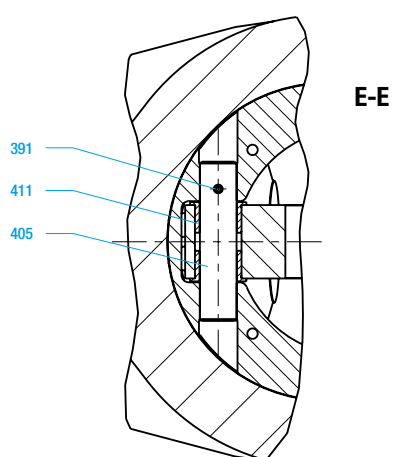
Area of application

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

Material	PD	20	50	100	120	150	200	250	300	350	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650
1.0460	40	400	400	400	400	400	377	330	295	248	200	190	181	172	162	153	135	113	93																	
1.5415	40	480	480	480	480	480	447	412	353	341	330	327	325	322	320	318	315	313	311	271	212	161	127	101												
1.7335	40	481	481	481	481	481	481	471	436	412	388	384	379	374	370	365	363	360	358	355	322	271	215	175	141	110	90	73								
1.7383 ²⁾	40	480	480	480	480	480	480	480	471	436	412	407	403	398	393	388	384	379	374	358	318	278	242	212	183	160	136	120	103	89	79					
1.6368	40	657	657	657	657	657	657	657	657	657	657																									
1.4903 ²⁾	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	612	596	551	506	464	421	381	341	306	271	240	212	183	160	136	120	103
1.4901 ²⁾	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	677	635	592	552	512	475	440	404	369	334	298	265	235	204	176	152	131

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.



Materials

Item	Designation	1.0460 (21)	1.5415 (42)	1.7335 (44)	1.7383 (45)	1.6368 (46)	1.4903 (63)	1.4901 (66)
100	Body	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
140	Seat ring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
	Armoured with	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
160	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
170	Clamping screw	A 193 B7	A 193 B7	A 193 B7	A 193 B7	A 193 B7	A 193 B7	A 193 B7
190	Hexagonal nut	A 194 2H	A 194 2H	A 194 2H	A 194 2H	A 194 2H	A 194 2H	A 194 2H
270	Cover	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
271	Support ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
272	Segment ring	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
273	Support cap	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460	1.0460
305	Retaining ring	1.7383	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903
325	Hexagonal bolt	A4	A4	A4	A4	A4	A4	A4
326	Securing ring	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301	1.4301
380	Swing check disc	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903	1.4901
	Armoured with	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
382	Disc lever	1.7383	1.7383	1.7383	1.7383	1.7383	1.4903	1.4903
385	Tension pin	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310
387	Round nut	1.4923	1.4923	1.4923	1.4923	1.4923	1.4923	1.4923
388	Clamping plate	1.4903	1.4903	1.4903	1.4903	1.4903	1.4903	1.4903
391	Tension pin	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310
405	Valve shaft	1.4923	1.4923	1.4923	1.4923	1.4923	1.4923	1.4923
411	Guide sleeve	0.7660	0.7660	0.7660	0.7660	0.7660	0.7660	0.7660

Spare parts

Dimensions/mm and weights/kg DRI 26.25

DN	ØDS	L	H	kg
80	70	305	230	49
100	90	406	257	83
125	111	483	317	131
150	136	559	357	265
200	178	711	445	400
250	222	864	530	744
300	263	991	603	1178

Dimensions/mm and weights/kg DRI 26.40

DN	ØDS	L	H	kg
65	50	330	231	59
80	57	368	246	91
100	72	457	278	151
125	90	533	337	289
150	111	610	431	447
200	146	762	479	799
250	185	1270	587	1543