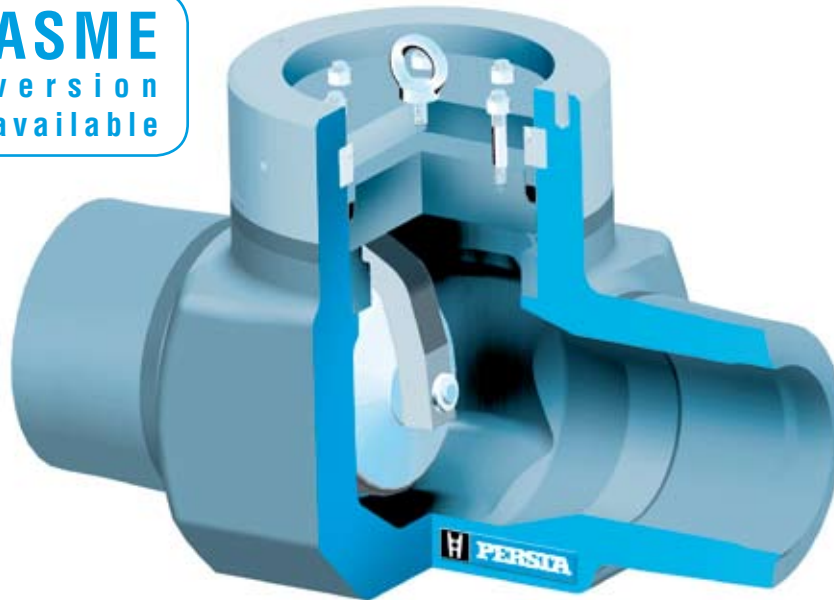


▪ High pressure swing check valves ▪ DRI 16-63 ▪ 640 AB ▪ PD 16-63 ▪ DN 50-600

ASME
version
available



		Range of application																																	
		Admissible operating pressure [bar] at design temperature [°C] ¹⁾																																	
BW-Version	Material	PD	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	16	160	160	151	132	118	99	80	76	73	69	65	61	54	45	37																			
	25	250	250	235	206	184	155	125	119	113	107	102	96	85	71	58																			
	32	320	320	302	264	236	198	160	153	145	138	130	123	109	91	75																			
	40	400	400	377	330	295	248	200	191	182	172	163	153	136	113	93																			
1.5415	16	192	192	179	165	141	137	132	131	130	129	128	127	126	125	124	109	85	64	51	41														
	25	300	300	280	258	221	213	206	205	203	202	200	199	197	196	194	170	132	101	79	64														
	32	385	385	358	330	283	273	264	262	260	258	256	255	253	251	249	217	170	129	102	81														
	40	480	480	448	413	354	342	330	328	325	323	321	318	316	314	311	272	212	161	127	102														
1.7335	16	192	192	192	189	174	165	156	154	152	150	148	146	145	144	143	142	129	109	86	70	57	44	36	29										
	25	300	300	300	294	272	258	243	240	237	234	231	228	227	225	224	222	202	170	134	109	88	69	57	46										
	32	385	385	385	377	349	330	311	307	304	300	296	292	290	289	287	285	258	217	172	140	113	88	72	59										
	40	481	481	481	471	436	413	389	384	380	375	370	365	363	364	358	356	323	272	215	175	141	110	91	74										
1.7383	16	192	192	192	192	189	174	165	163	161	159	157	156	154	152	150	143	127	111	97	85	74	64	55	48	41	36	32							
	25	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							
	32	384	384	384	377	349	330	326	322	319	315	311	307	304	300	287	255	223	194	170	147	128	109	96	83	72	63								
	40	480	480	480	480	471	436	413	408	403	398	384	389	384	379	375	358	318	278	243	212	184	160	137	120	104	90	79							
1.6368	16	263	263	263	263	263	263	263	263	263	257	231	198	165	131	98	65																		
	25	410	410	410	410	410	410	410	410	410	402	360	309	257	205	153	102																		
	32	525	525	525	525	525	525	525	525	525	515	482	396	330	262	196	130																		
	40	657	657	657	627	657	657	657	657	657	657	643	577	495	412	328	245	163																	
1.4903	16	272	272	272	272	272	272	272	272	272	272	272	272	272	268	245	239	221	203	186	169	153	137	123	108	96	85	74	64	55	48	41			
	25	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	65		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	536	490	477	441	405	371	338	305	273	245	217	192	170	147	128	109	96	83		
	40	680	680	680	680	680	680	680	680	680	680	680	680	680	680	669	613	596	552	507	464	422	382	342	306	271	240	212	184	160	137	120	104		
1.4901	16	272	272	272	272	272	272	272	272	272	272	272	272	272	272	271	254	237	221	205	190	176	161	147	133	119	106	94	81	70	61	52			
	25	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		
	32	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	542	508	474	442	410	380	352	323	295	267	239	212	188	163	141	122	105	
	40	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 = design temperature minus temperature surcharge acc. to DIN regulations. Design according to working data PD 63 on request

▪ **High pressure swing check valves** ▪ DRI 16-63 ▪ 640 AB ▪ PD 16-63 ▪ DN 50-600

Standard features

- Valve body made of forged steel
- Swing check valve with internal hinge pin
- Lever rests in a separate support ring
- Welded seat ring
- Pressure sealing bonnet acc. VGB-guidelines

Pressure and temperature ratings

- Pressure rating up to 680 bar
- Temperature rating up to 650 °C
- Higher ratings on request

Materials

- 1.0460
- 1.4901
- 1.4903
- 1.5415
- 1.6368
- 1.7335
- 1.7383

Further materials on request.

Media

Depending on the material swing check valves are suitable for water, gas, oil and other non aggressive media

Fields of application

High temperature steam and water, refining (catalytic reformers and hydrocrackers), petrochemical and chemical industries

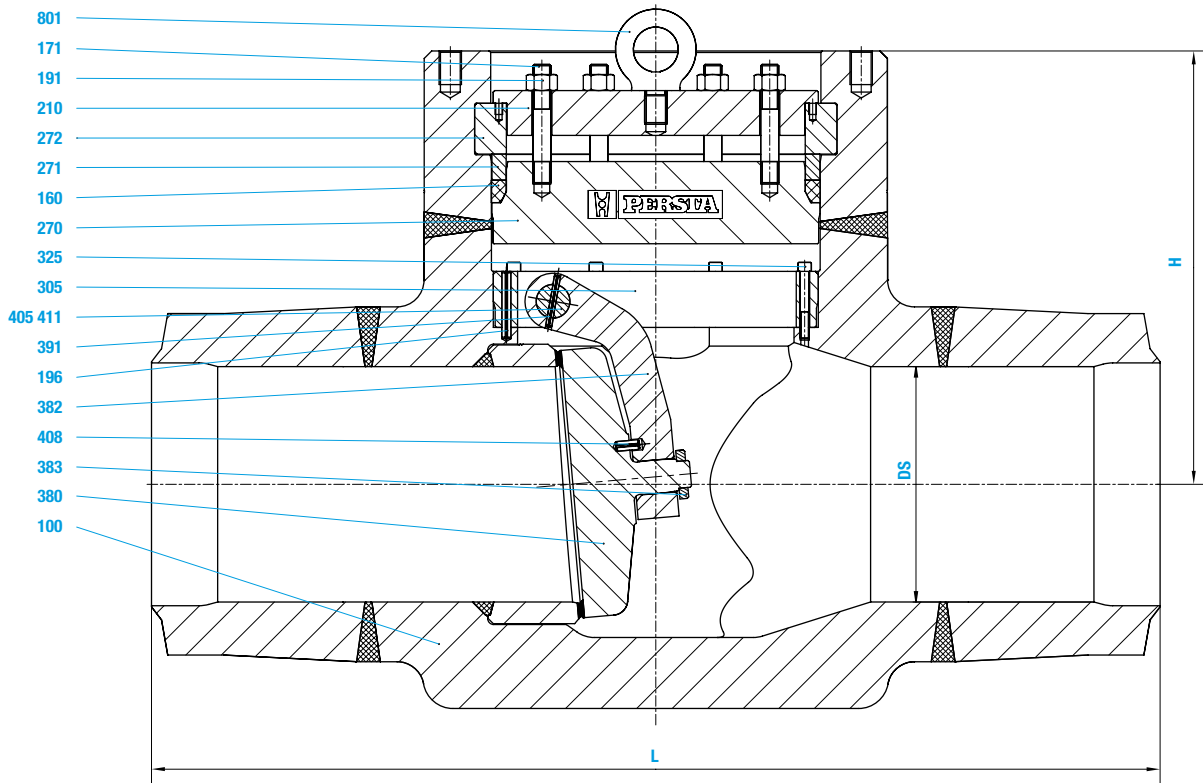
Design Highlights

- Valve body made of forged steel
- Seats faced with stellite
- Lever rests in a separate support ring
- Shut-off device with curved journal
- Pressure sealing bonnet

Benefits

- Free from porosity and shrink holes
- Extremely resistant to wear
- The setting of the disc can be examined before installing the bonnet cover
- Optimum alignment of the disc to the body seat
- Best possible sealing function

▪ High pressure swing check valves ▪ DRI 16-63 ▪ 640 AB ▪ PD 16-63 ▪ DN 50-600



■ High pressure swing check valves ■ DRI 16-63 ■ 640 AB ■ PD 16-63 ■ DN 50-600

Materials								
Pos.	Component	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
160	▶ Gasket	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite	Graphite
171	Stud	1.7709	1.7709	1.7709	1.7709	1.7709	1.7709	1.4923
191	Hexagonal nut	1.7218	1.7218	1.7218	1.7218	1.7218	1.7218	1.4923
196	▶ Tension pin	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310
210	Bonnet	1.7383	1.7383	1.7383	1.7383	1.7383	1.7383	1.4903
270	Cover	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
271	Ring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
272	Segmentring	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
305	▶ Supportring	1.0460	1.5415	1.7335	1.7383	1.7383	1.4903	1.4901
325	Headcap screw	A4	A4	A4	A4	A4	A4	A4
380	▶ Disc welded on with	1.0460	1.5415	1.7335	1.7383	1.6368	1.4903	1.4901
		Stellite	Stellite	Stellite	Stellite	Stellite	Stellite	Stellite
382	▶ Hinge	1.0460	1.5415	1.7335	1.7383	1.7383	1.4903	1.4903
383	▶ Washer	1.0460	1.0460	1.7335	1.7383	1.6368	1.4923	1.4923
391	▶ Tension pin	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310
405	▶ Hinge pin	1.4923	1.4923	1.4923	1.4923	1.4923	1.4923	1.4923
408	▶ Tension pin	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310	1.4310
411	▶ Guide bushing	5.3106	5.3106	5.3106	5.3106	5.3106	5.3106	5.3106
801	Lifting eye bolt	1.0401	1.0401	1.0401	1.0401	1.0401	1.0401	1.0401
	▶ Spare parts							

Dimensions/mm and Weights/kg																	
DN	DS	DRI 16			DRI 25			DRI 32			DRI 40			DRI 63			
		L	H	kg	L	H	kg	L	H	kg	L	H	kg	L	H	kg	
65-200																	
225	202,5							Version DRI 26.40			Version DRI 26.40						
250 / 225	202,5							1050	450	910							
250	225,0	Version DRI 26.25			Version DRI 26.25						On request			On request			
300 / 250	225,0							1150	450								
300	270,0							1150	515	1300							
350 / 300	270,0							1350	515								
350	315,0							1350	605	2300							
400 / 350	315,0	1200	540	2300	1550	580	2300	1550	605								
400	360,0	1200	540		1750	580		1550	785	4000							
450 / 400	360,0	1350	600	3600	1750	660	3600	1750	785								
450	405,0	1350	600		1950	660		On request									
500 / 450	405,0	1500	690	5400	1950	750	5400										
500	450,0	1500	692		2150	750											
600 / 500	540,0	1650			On request												
600	540,0	1650															
		On request															