



Range DN: 50 ~ 150
NPS: 2" ~ 6"



PED 97/23/EC
PED 2014/68/EU



TR TS 10/11,
12/11, 32/11



Range PN: 16 ~ 400
Class: 900 ~ 2500



**HIGH-PRESSURE
EXECUTION**

Operating temperature: -196 °C ~ 550 °C

Connection into piping: Flanged, welded ends, threaded ends, combined execution



DESCRIPTION

PSG valves are automatic check valves manufactured in two versions:

1. Check valve for vertical pipes, with automatic overflow – designed to protect the pump against the effects of the recoil caused by the transported medium by overflowing it.
2. Check valve for vertical pipes, without overflow - designed to protect the pump against the effects of the recoil caused by the transported medium by stopping it. These valves are designed and manufactured to ensure maximum service life and reliability.

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MATERIAL SPECIFICATION

PSG lift check valves are made from carbon, alloy and stainless steels. The material type can be adjusted according to the customer's request to optimally suit the operating conditions.

APPLICATION

PSG lift check valves are suitable for high-pressure various liquids, gases and steam.

BASIC STANDARDS FOR DESIGN

Basic design

EN 13 709

Pressure-temperature rating

EN 12 516 - 1, ASME B16.34

Testing

API 598, EN 12 266 - 1, 2

Face-to-face dimensions

EN 558, ANSI B16.10

Dimensions of the welded ends

ANSI B16.25

Top Flange dimensions

- - -

Flange dimensions

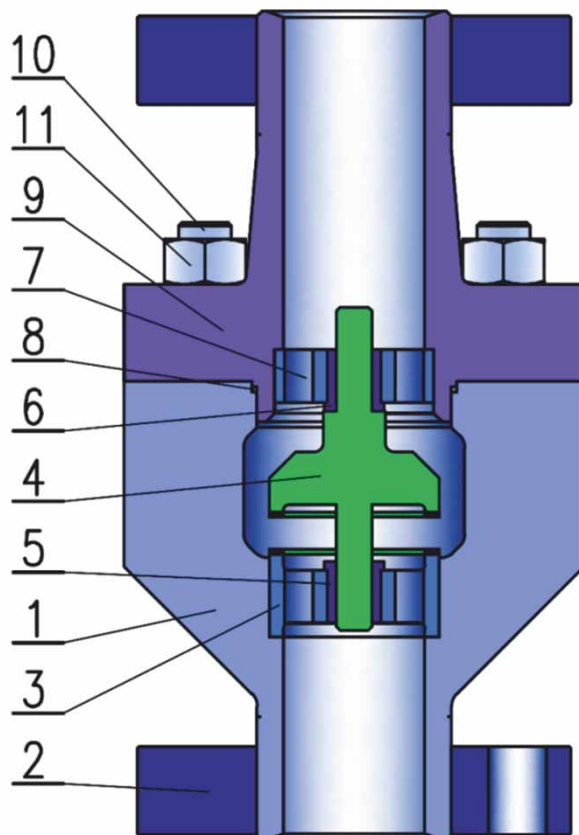
EN 1759-1, EN 1092-1,
GOST: 12821-80, 12815-80, 9399-81

Special

NACE MR-0175

MATERIAL SPECIFICATION

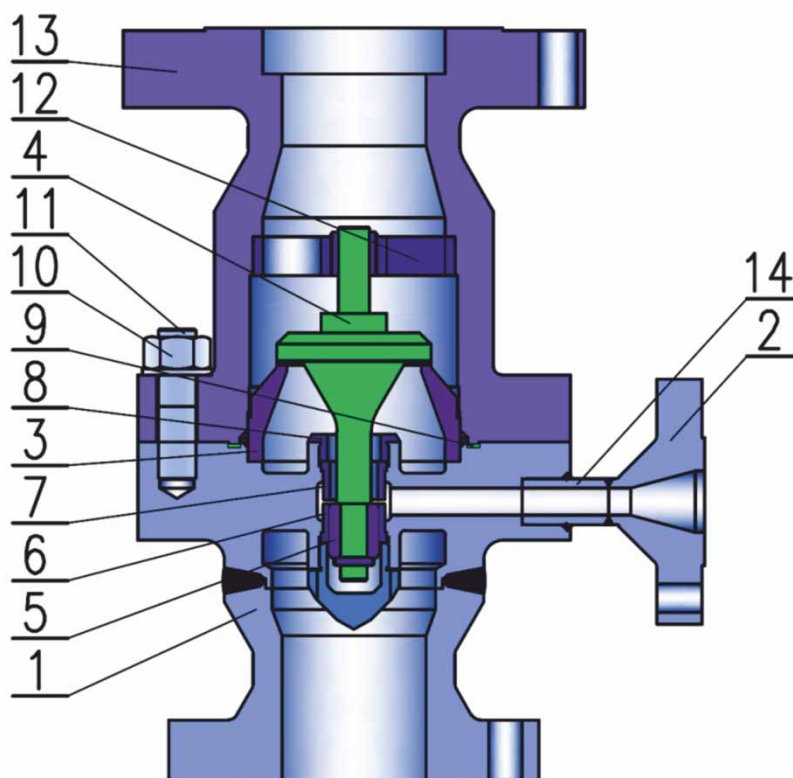
LIFT CHECK VALVE type PSG without automatic overflow for vertical pipeline



POS.	NAME	MATERIAL									
1	BODY	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 316L	A182 F304L	
2	FLANGE	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 F316L	A182 F304L	
3	SEAT	P355 NH + surfacing	A350 LF2 + surfacing	A105 + surfacing	1.4541 + surfacing	1.4401 + surfacing	A182 316 + surfacing	A182 F304 + surfacing	A182 F316L + surfacing	A182 F304L + surfacing	
4	PLUG	P355 NH + surfacing	A350 LF2 + surfacing	A105 + surfacing	1.4541 + surfacing	1.4401 + surfacing	A182 316 + surfacing	A182 F304 + surfacing	A182 F316L + surfacing	A182 F304L + surfacing	
5	SLEEVE	CuSn6									
6	SLEEVE	CuSn6									
7	GUIDE	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 316L	A182 F304L	
8	SEALING	Graphite									
9	BONNET	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 316L	A182 F304L	
10	BOLT	42CrMo4	A320 L7	A193 B7	A2-70	A2-70	A193 B8M	A193 B8	A193 B8M	A193 B8	
11	NUT	42CrMo4	A194 4	A194 2H	A2-70	A2-70	A194 8M	A194 8	A194 8M	A194 8	

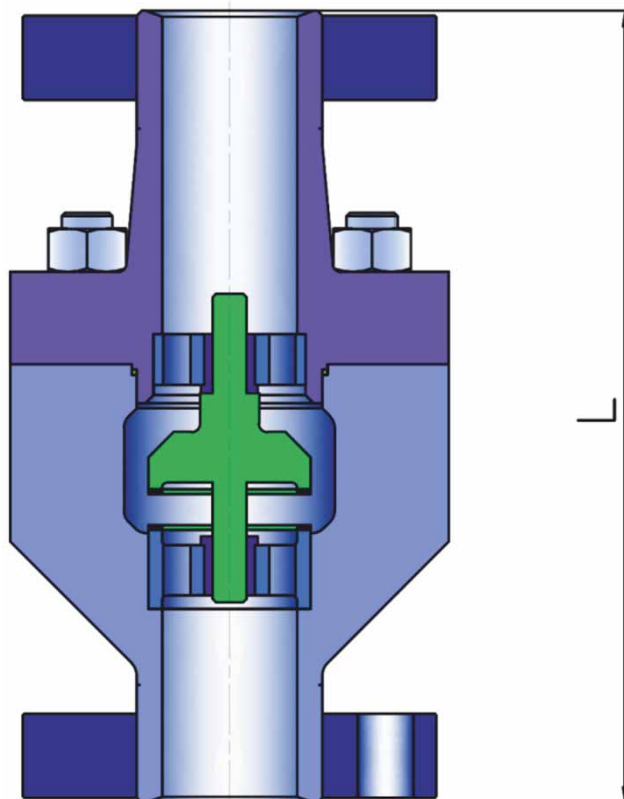
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6	SLEEVE									
7	SLEEVE	17 027.6								
8	SLEEVE NUT									
9	SEALING	Graphite								
10	NUT	42CrMo4	A194 4	A194 2H	A2-70	A2-70	A194 8M	A194 8	A194 8M	A194 8
11	BOLT	42CrMo4	A320 L7	A193 B7	A2-70	A2-70	A193 B8M	A193 B8	A193 B8M	A193 B8
12	GUIDE	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 316L	A182 F304L
13	BONNET	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 316L	A182 F304L
14	TUBE	P355 NH	A350 LF2	A105	1.4541	1.4401	A182 316	A182 F304	A182 316L	A182 F304L

DIMENSIONS



NPS	DN	CLASS 600		CLASS 900		CLASS 1500-2500		PN 100		PN 160		PN 250-400	
		L	Mass (kg)	L	Mass (kg)	L	Mass (kg)	L	Mass (kg)	L	Mass (kg)	L	Mass (kg)
2	50	292	47	368	65	451	76	250	40	300	47	350	50
2 ½	65	330	72	391	93	508	109	290	63	360	72	425	80
3	80	356	136	419	172	578	198	310	128	390	140	470	155
4	100	432	273	457	302	673	343	350	230	450	263	550	282
5	125	508	338	559	398	794	454	400	293	525	327	650	365
6	150	559	466	610	544	914	615	450	398	600	459	750	486

TYPE DESIGNATION

PSG B C D E M₁ PN or Class/S

B

BODY DESIGN

- 2 Two pieces
- 3 Three pieces

C

CONNECTION INTO PIPE

- 1 Flanged
- 2 Threaded

D

FLANGE FACING

EN 1092-1

- A Flat face
- B Raised face
- C Tongue face
- D Groove face
- E Spigot
- F Recess
- G O - ring recess
- H O - ring groove

GOST 9399-81

- L For lens gasket

ANSI B 16.5

- PFF Flat sealing face
- RF Raised face
- LTF Large tongue
- STF Small tongue
- LGF Large groove
- SGF Small groove
- LMF Large male
- SMF Small male
- LFF Large female
- SFF Small female
- RTJ Ring joint

E

CONTROL

- 7 Automatic

M₁

BODY MATERIAL

- 0 Stainless steel
- 3 Forged alloy steel forged
- 4 Forged carbon steel
- LT Carbon steel for low temperatures

S

SPECIAL EXECUTION

- As Antistatic
- O With overflow

