

# SCREW-DOWN-NON-RETURN VALVE TYPE 644

## CHARACTERISTIC:

Diameter	-	15 -100 mm;
Pressure	-	320 bar ;
Temperature	-	up to 530°C (with PTFE sealing up to ≤ 200°C);
Medium	-	water, steam and other non-toxic, non aggressive liquid and gas media and engine fuel, sea water.

## VERSIONS:

type / ends / body material / disc and disc ring / others

Example: 644 / --- / --- / --- / ---

Example: 644 / SW / U / L / NA

Ends	Sign
Standard – butt weld ends	---
Socket weld	SW
Flanged	K

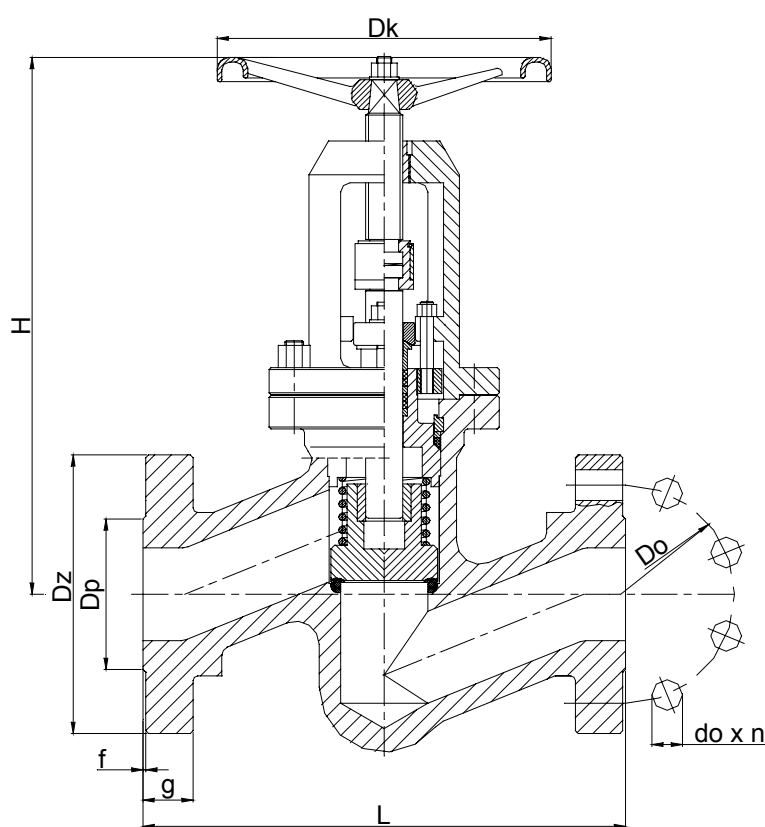
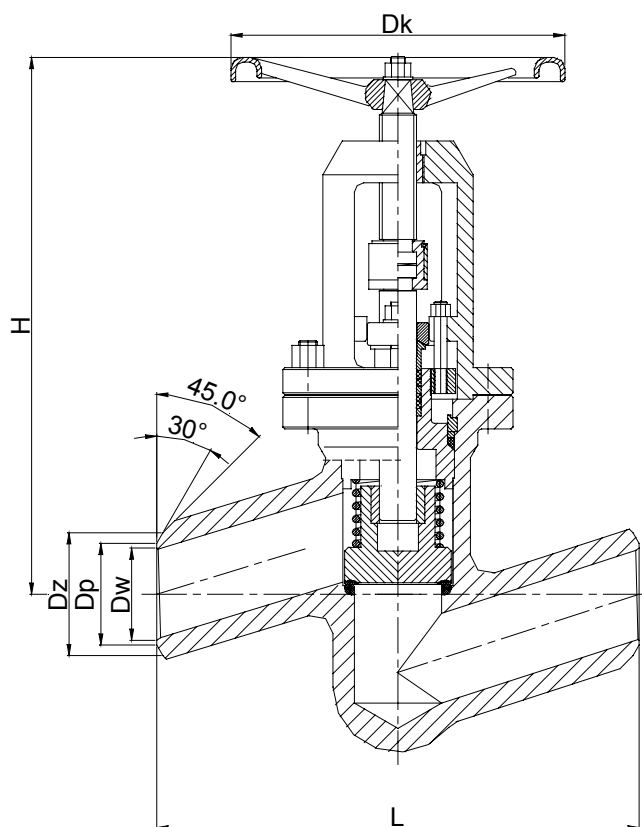
Body material	Sign
(P250GH) C 22.8	---
16Mo3	U
13CrMo4-5	A
10CrMo9-10	B
14MoV6-3	C

Disc and disc ring	Sign
Standardowy	---
Stellit	L

Actuator	Sign
Hand wheel	---
AUMA	NA
NWA-1	NW
MODACT	NM
Pneumatic drive	NP

## APPLICATION:

The valves are designed to keep pipeline safe from returning the medium. Screw-down-non-return valve can be used as a stop globe valve to open and stop the flow. The valve is not supposed to be used as a regulating device.



# WK®

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## MATERIALS:

Versions	Standard	U	A	B	C
Parts	T <sub>MAX</sub> 450°C	T <sub>MAX</sub> 530°C	T <sub>MAX</sub> 560°C	T <sub>MAX</sub> 600°C	T <sub>MAX</sub> 570°C
Body	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	10CrMo9-10 (1.7380)	14MoV6-3 (1.7715)
Bonnet	DN 15-25 13CrMo4-5 (1.7335) DN 32-125 G17CrMo5-5 (1.7357)				
Steam DN 15-65	X39CrNi17-1 (1.4122), X22CrMoV12-1 (1.4923)				
Disc DN 80-100	(P250GH) C22.8 (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	10CrMo9-10 (1.7380)	14MoV6-3 (1.7715)
Seat ring	BT9 or Stellite				
Upper steam	X17CrNi16-2 (1.4057), X39CrNi17-1 (1.4122)				
Spring	51CrV4 (1.2241)				
Wheel	Cast iron				

Special materials on request; modifications reserved.

## DIMENSIONS:

Standard – butt weld ends						H	h	Dk
DN	d	Dz	Dw	L	Weight			
10	10	20	12	160	2,90	205	12	140
15	14	22	15					
20	20	28	19					
25	24	35	24	160	7,20	266	19	200
32	30	44	31,5					
40	38	50	36					
50	44	77	59,5	300	29,50	418	23	360
65	62	91	68					
80	76	117	87,5					
100	92	144	109,5	430	-	720	50	GNR 500

## TECHNICAL DATA:

Body material	PN	Maximal working pressure at working temperature																
		20°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	480°C	500°C	520°C	530°C	540°C	560°C	570°C	600°C
	bar																	
(P250GH)C 22.8 (1.0460)	320	320,00	297,10	281,90	266,60	243,80	220,90	205,70	190,40	105,10								-
16Mo3 (1.5415)	320	320,00	320,00	320,00	320,00	312,30	274,20	259,00	243,80	236,10	179,50	141,70	89,90	71,60				-
13CrMo4-5 (1.7335)	320	320,00	320,00	320,00	320,00	320,00	318,40	304,70	289,50	274,20	234,90	208,70	143,20	118,80	92,90	60,90	50,20	-
14MoV6-3 (1.7715)	320	320,00	320,00	320,00	320,00	320,00	320,00	320,00	318,50	309,30	307,00	294,10	227,00	199,60	172,20	131,00	111,20	-
10CrMo9-10 (1.7380)	320	320,00	320,00	320,00	320,00	320,00	320,00	312,30	297,10	281,90	236,10	205,70	156,90	137,10	118,80	88,30	77,70	51,8

## MOUNTING AND OPERATING:

*The valve can only be mounted and operated by skilled, properly trained and qualified personnel. Incorrect assembly or operation of the valve may have substantial impact on the entire system such as fluid leakage, reduction in system's function etc.*

Before a valve is installed the pipeline must be clean from any mechanical impurities. The compatibility of critical parameters of the flow must be checked with the parameters of the valve. Stop globe valve can be mounted to a pipe-line in any position. The direction of flow should only comply with the arrow marked on the body. The valve should be operated strictly with its assign. In order to provide valve's reliability the following suggestions must be observed:

- medium flowing through the valve is supposed to be clean out of any mechanical impurities;
- the valve must be protected from any mechanical damages during its work;
- nominal parameters marked on the valve must be observed.