

# KEY VALVES UK LTD

Quality First Service Foremost  
[www.keyvalvesuk.com](http://www.keyvalvesuk.com)

**OTHER  
VALVE  
SERIES**





### ● Design Description

- Bellow sealed globe valve in forged and cast steel
- Straight pattern with bolted bonnet
- Rising, non rotating stem
- Increased stem nut positioning.
- Blowout safety bonnet sealing
- Flange-or BW-endsWeldedseat
- Seat in stellite or Cr-steel
- Self adjusted gland

### ● Standard

Design	EN 13709
	EN 12516
Face to face	EN 558-1
	EN 12982
Flange	EN 1092-1
BW-ends	EN 12627
Markning	EN 19
Pressure test	EN 12266-1

CE-mark according PED93/23,category 3

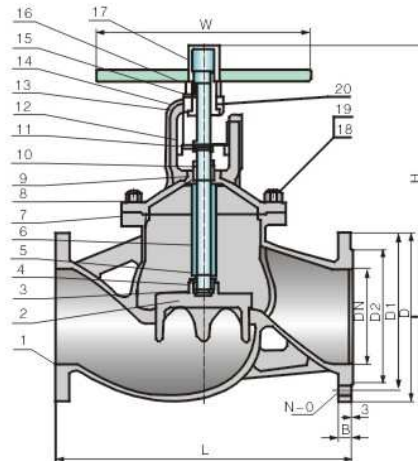
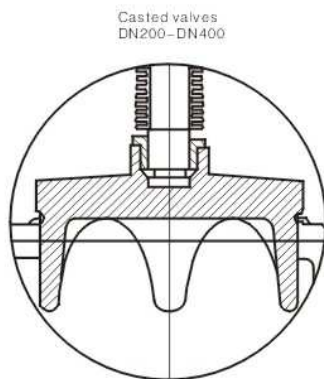
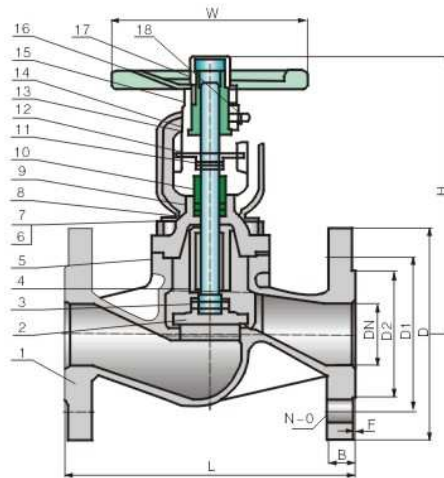
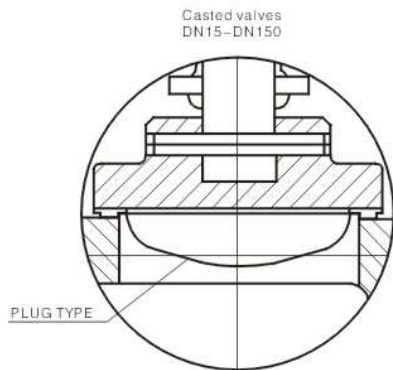
### ● Applications

- Water, steam, and other medium which not damage the Internal components
- Uses within the all kind of industries
- The valves are designed for shut of application or simple regulation



### ● Tabell 1. Techical specification

Dimension	DN 15 till Dn400
Material	Cast Carbon steel, alloy steel BW-ends DN15-DN50, forged steel
Pressure class	PN 16 to PN 25/40
Temperature range	-10°C till 400°C
Connections	Flanged, BW-ends
Seat	13Cr, Stelit
Disc	Shutt off or regulation



● Table2. Pressure-temperature. material in group 3EO,SE0,11EO acc.to EN 1092-1

Material hus	PN	RT	100	150	200	250	300	350	400	450	500	520	530
Carbon steel 3EO,1.0619	16	16.0	14.9	13.9	12.4	11.4	10.3	9.6	9.2				
Carbon steel 3EO,1.0619	25/40	40.0	37.3	34.7	30.2	28.4	25.8	24.0	23.1				
Alloy steel 5eo,1.7357		40.0	40.0	40.0	40.0	39.1	36.4	33.8	32.0	32.0	24.4	16.7	13.5
Stainless steel 11EO,1.4404	16	13.5	11.7	10.7	9.7	9.0	8.5	8.0	7.7	7.4	7.1		
Stainless steel 11EO,1.4408		14.6	12.4	11.2	10.3	9.6	9.0	8.5	8.2	8	7.8	7.7	7.5*
Stainless steel 11EO,1.4404	25/40	33.8	29.3	26.7	24.4	22.6	21.2	20.1	19.2	18.5	17.8		
Stainless steel 11EO,1.4408		36.4	31.1	28.1	25.8	24.0	22.6	21.3	20.4	20.1	19.6	19.2	
* = 550grdC													

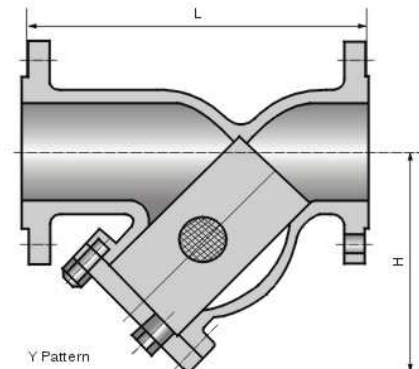
Other Valve



## Strainers Y and Basket type

### ● Design & Manufacture Standard:

Design & manufacture as per ASME B16.34  
 Face to face dimension as per manufacture's standard  
 Connection ends dimension as per ASME B16.5, B16.47  
 Inspection and test as per API 598



Main size and weight

### ● Dimensions Data

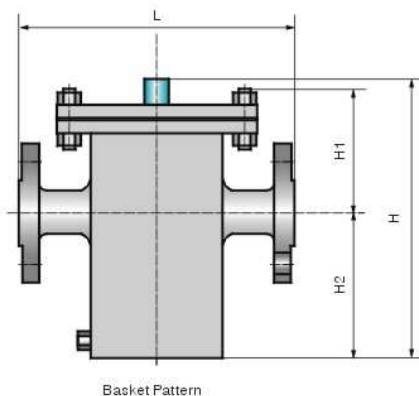
#### CLASS 150-300

SIZE		inch	2	2-1/2	3	4	6	8	10	12	14	16
		mm	50	65	80	100	150	200	250	300	350	400
L	150lb	mm	203	216	241	292	406	495	622	698	787	914
	300lb	mm	267	292	317	356	444	559	622	711	838	864
H		mm	178	200	236	296	353	473	514	612	689	792
WT	CLASS 150	kg	10	13	15	26	53	76	108	146	188	282
	CLASS 300	kg	13	20	40	60	83	112	150	202	285	386

#### CLASS 600

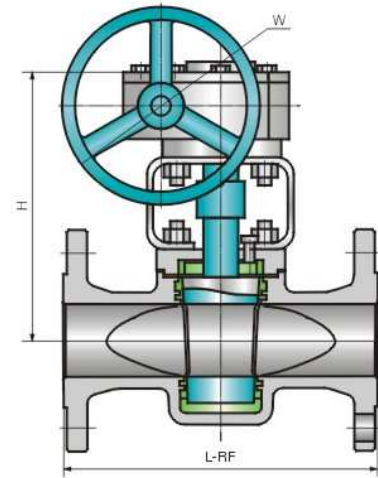
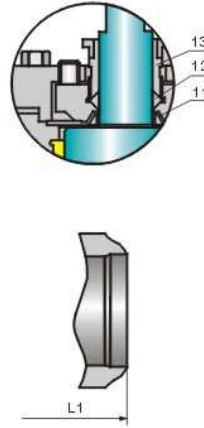
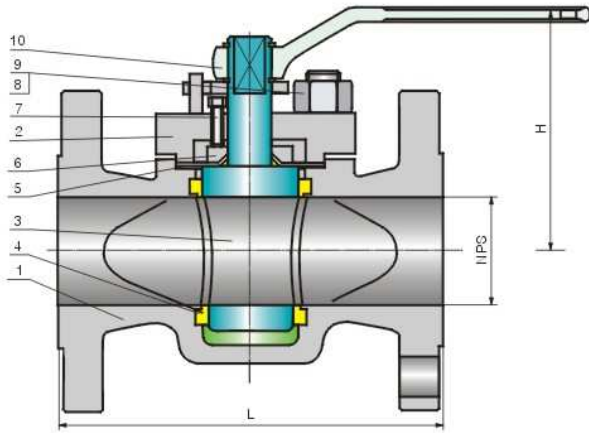
SIZE		inch	2	2-1/2	3	4	6	8	10	12	14	16
		mm	50	65	80	100	150	200	250	300	350	400
L		mm	292	330	356	432	559	660	787	838	889	991
H		mm	184	206	242	304	361	483	526	624	705	808
WT		kg	15	25	50	75	103	148	203	284	356	492

#### CLASS 150-300



SIZE		inch	1	1-1/2	2	2-1/2	3	4	6	8
		mm	25	40	50	65	80	100	150	200
L		mm	215	270	270	330	340	430	500	560
H		mm	470	560	560	710	790	820	-	-
H1		mm	105	130	130	145	150	175	210	260
H2		mm	165	175	175	210	255	300	425	525
WT	CLASS 150	kg	6	8	10	14	15	27	55	78
	CLASS 300	kg	8	10	14	20	38	55	90	120

# Cast Steel Plug Valve



Gear Standard for 4" & Larger

## Design Description:

- Rugged, heavy-duty body
- Bolted bonnet cap
- PTFE Sleeved, tapered plug
- Non-lubricated
- Stem integral with-plug
- In-line adjustment
- Fire durable construction
- Anti static device
- Stopper device
- Renewable seat ring
- Flanged or butt welding ends
- Available with wg operator
- working temperature of -29~ 180°C
- There is no cavity in the valve for accumulation of medium.

## Applicable Standards

Design standard	API 599/API 6D
Fire test	API 607
Anti static	API 599
Steel valves	ASME B16.34
Face to face	ASME B16.10
End flanges	ASME B16.5
Butt welding ends	ASME B16.25
Inspection and test	API 598/API 6D

## Materials of Parts

NO.	Part name	ASTM Material		
1	Body	A216-WCB	A351-CF8M	A352-LCB
2	Bonnet	A216-WCB	A351-CF8M	A352-LCB
3	Plug	A351-CF8	A351-CF8M	A352-LCB
4	Sleeve	Glass filled PTFE/PTFE		
5	Bonnet gasket	Graphite+ 3042)	Graphite+ 3162)	Graphite+ 3042)
6	Adjusting gasket	A182-F6a	A182-F316	A182-F6a
7	Adjusting bolt	A193-B7	A193-B8	A320-L7
8	Bonnet stud	A193-B7	A193-B8	A320-L7
9	Bonnet bolt	A194-2H	A194-8	A194-7
10	Handle	A216-WCB		
11	Diaphragm	A167-304+PTFE	A167-316+PTFE	A167-304+PTFE
12	Packing	Graphite		
13	Gland flange	A216-WCB	A217-WC6	A352-LCB

Note: 1). A216-WCB+ENP Optional; 2). Jacketed construction.

Other Valve



## Cast Steel Plug Valve

### ● Dimensions Data

#### ANSI Class 150

Size	in	2	2 1/2	3	4	6	8	10	12
	mm	50	65	80	100	150	200	250	300
L (RF)	in	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00
	mm	178	191	203	229	267	292	330	356
L1 (BW)	in	10.50	12.00	13.00	14.00	18.00	20.50	22.00	25.00
	mm	267	305	330	356	457	521	559	635
H	in	6.00	6.50	7.12	15.00	20.50	22.88	24.50	26.75
	mm	150	165	180	380	520	580	620	680

#### ANSI Class 300

Size	in	2	2 1/2	3	4	6	8	10	12
	mm	50	65	80	100	150	200	250	300
L (RF)	in	8.5	9.5	11.0	12.0	16.0	16.5	18.0	20.0
	mm	216	241	283	305	403	419	457	502
L1 (BW)	in	10.50	12.00	13.00	14.00	18.00	20.50	22.00	25.00
	mm	267	305	330	356	457	521	559	635
H	in	6.00	6.50	7.12	15.00	20.50	22.88	24.50	26.75
	mm	150	165	180	380	520	580	620	680

#### ANSI Class 600

Size	in	2 1/2	2	3	4	6	8	10	12
	mm	50	65	80	100	150	200	250	300
L/L1 (RF/BW)	in	11.50	13.00	14.00	16.00	19.50	23.50	26.50	30.00
	mm	292	330	356	432	559	660	787	838
L2 (RTJ)	in	11.62	13.12	14.12	16.12	19.62	23.62	26.62	30.12
	mm	295	333	359	435	562	664	791	841
H	in	6.12	6.75	7.25	15.38	20.88	23.25	24.88	27.12
	mm	155	170	185	390	530	590	630	690

#### ANSI Class 900

Size	in	2 1/2	2	3	4	6	8	10	12
	mm	50	65	80	100	150	200	250	300
L/L1 (RF/BW)	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00
	mm	368	419	381	457	610	737	838	965
L2 (RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12
	mm	371	422	384	460	613	740	841	968
H	in	6.12	6.75	7.25	15.38	20.88	23.25	24.88	27.12
	mm	155	170	185	390	530	590	630	690

# Pressure Balance Lubricated Plug Valve

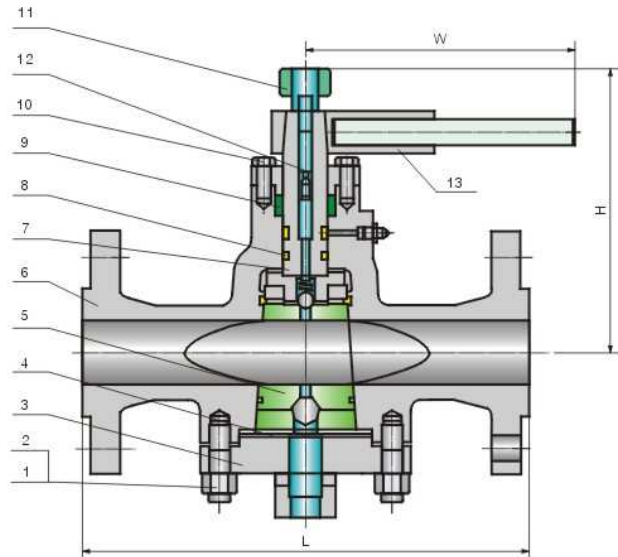


## Main Structural Features

Bolt cover, structure of inverted pressure balance  
 And light on/off operation. An oil groove  
 is set between valve body and sealing surface,  
 which may infuse the seal grease to increase  
 the seal capability.  
 working temperature of -29~180°C

## Applicable Standards

Design and manufacture: API 599, API 6D  
 Face to face(end to end): ANSI B 16.10  
 Flange connection: ANSI B16.5  
 Butt welded end: ANSI B16.25  
 Test and inspection: API 598, API 6D



## Main Parts Materials

NO.	Part name	Material				
1, 2	Bolt/Nut	A193 B7/A194 2H	A193 B8/A194 8	A193 B8M	A194 8M	
3	Cover	A216 WCB	A351 CF8	A351 CF8M		
4	Gasket	Flexible graphite+ stainless steel/PTFE				
5	Plug	A182 F304	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
6	Body	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
7	Stem	A182 F410	A182 F304	A182 F316	A182 F304L	A351 CF3M
8	"O" ring	NBR/FEP/SBR				
9	Packing	Flexible graphite/PTFE				
10	Gland	A216 WCB	A351 CF8	A351 CF8M		
11, 12	Oichozzle/check valve	Material see body				
13	Wrench	ASTM A47-32510 A216 WCB				

## Dimensions Data

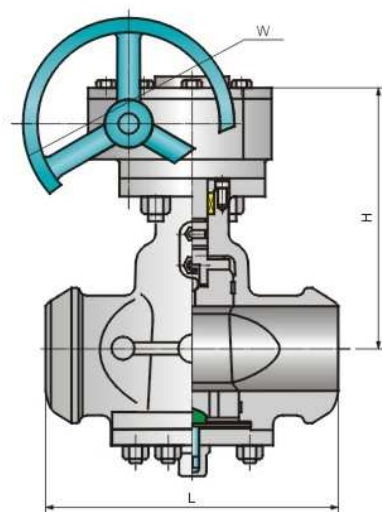
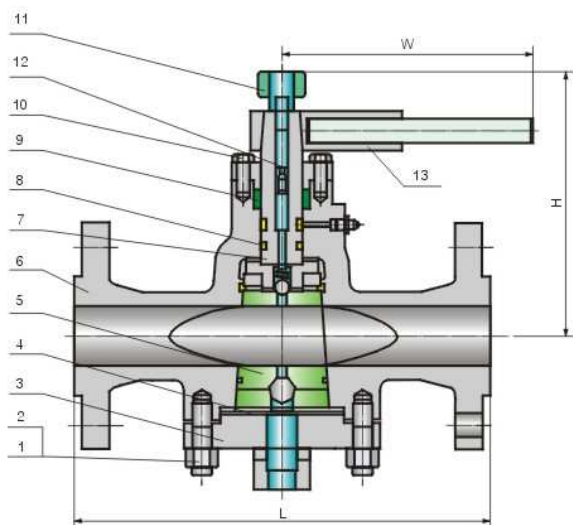
ANSI Class 150																
Size	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF	mm	108	117	127	140	165	178	190	203	229	254	267	292	330	356	381
H	mm	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W	mm	400	400	500	500	600	600	820	820	300	300	320	320	350	380	380

ANSI Class 300																
Size	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF	mm	140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
H	mm	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W	mm	400	400	500	500	600	600	820	820	300	300	320	320	350	380	380

Other Valve



## Pressure Balance Lubricated Plug Valve



Gear Standard for 4" & Larger

### ● Main Parts Materials

NO.	Part name	Material				
		A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
1, 2	Bolt/Nut	A193 B7/A194 2H	A193 B8/A194 8	A193 B8M	A194 8M	
3	Cover	A216 WCB	A351 CF8	A351 CF8M		
4	Gasket	Flexible graphite+stainless steel/PTFE				
5	Plug	A182 F304	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
6	Body	A216 WCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
7	Stem	A182 F410	A182 F304	A182 F316	A182 F304L	A351 CF3M
8	"O" ring	NBR/FEP/SBR				
9	Packing	Flexible graphite/PTFE				
10	Gland	A216 WCB	A351 CF8	A351 CF8M		
11, 12	Oic nozzle/check valve	Material see body				
13	Wrench	ASTM A47-32510 A216 WCB				

### ● Dimensions Data

ANSI Class 600																
Size	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF/BW	mm	165	190	216	229	241	292	330	356	432	508	559	660	787	838	889
H	mm	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W	mm	400	400	500	500	600	600	820	820	300	300	320	320	350	380	380

ANSI Class 900																
Size	inch	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF/BW	mm	229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H	mm	180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W	mm	400	400	500	500	600	600	820	820	300	300	320	320	350	380	380



Memo.



A series of horizontal blue lines for writing, spanning most of the page width.