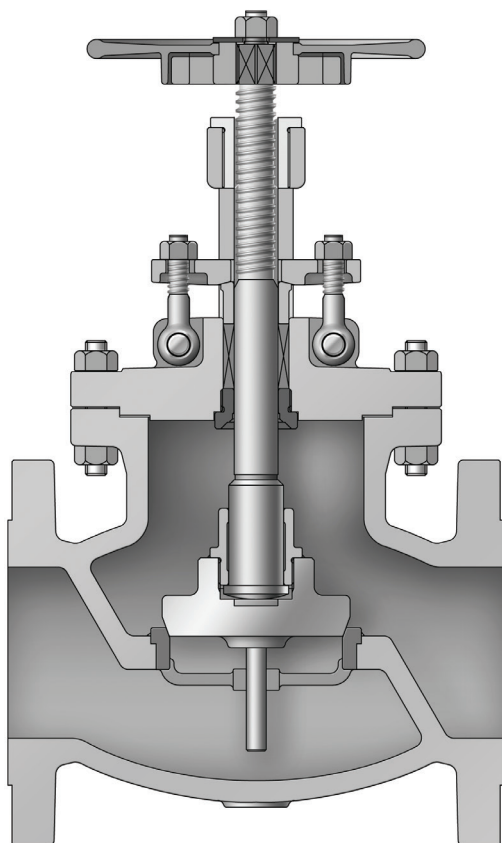


# GLOBE VALVE

## FUNCTION

The globe valve is used where throttling alone or both throttling and shutoff is needed. It may also be used for on-off service, but because of high pressure drop, such application is limited to the cases that the valve is normally closed and the pressure drop is of no importance in valve open condition.

PK cast steel globe valve is regularly made in outside screw and yoke design with full-way type disc.



## BODY AND BONNET

The body has a spherical form with large radius, which permits the stress, turbulence and resistance to flow to be kept minimum. The bonnets on valve are equipped with back seat rings.

## BODY-BONNET JOINT

Body-bonnet joint of globe valve is machined as follows:

All ..... Male and female.

We can supply any kinds of gasket as required by customer.

## DISC

The valve is normally supplied with plug type disc.

## SEAT RING

The valve is normally supplied with bottom seated type on 8" or larger valve, and the disc has bottom guide type seat rings.

## STEM

All stem have the turning and rising cut ACME threads.

## YOKE BUSH

The yoke nuts on globe valve are threaded and mounted to the bonnet, where it is secured with tack welding.

## PACKING

The packing size is designed to secure maximum tightness along the stem, and the standard packing is a non-asbestos type. We can supply any kinds of packing as required by customer.

## GLAND

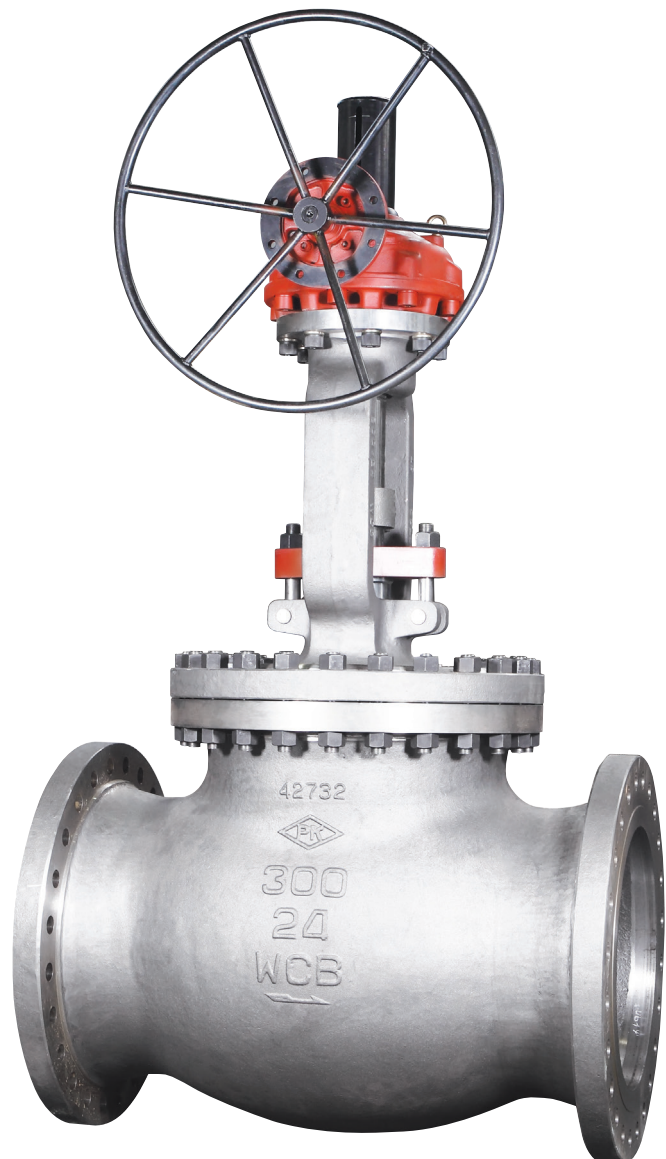
The gland is made of two pieces. Packing gland is in contact with the packing which is connected to gland flange through a spherical joint. Particular design permits a correct pressure on the packing without any damage to stem due to friction or corrosion.

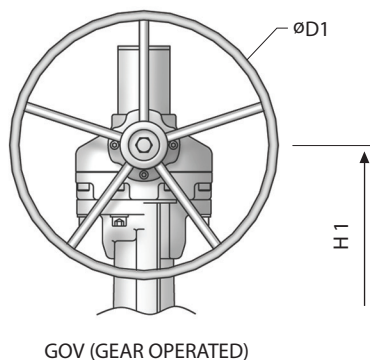
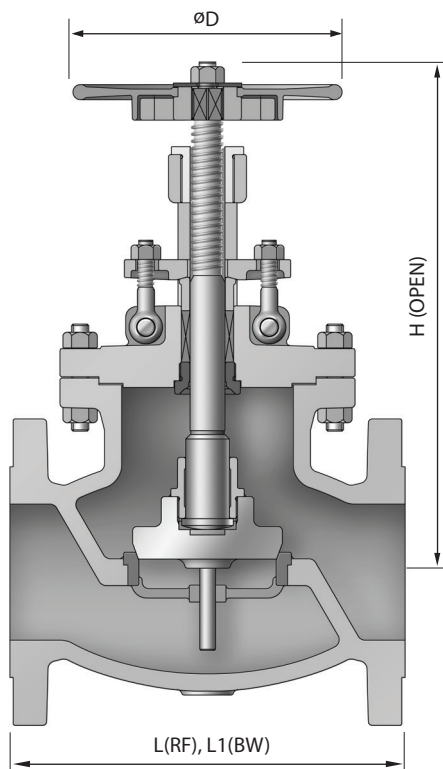
## STUFFING BOX

The stuffing box gives maximum packing stem seal. Lantern ring and grease injector shall be furnished only if specified on the purchase order.

## HAND WHEELS

Hand wheels are designed for easy operation. They are provided with hammer blow type of 8" and over for Class 150 valve, 6" and over for Class 300 and, 4" and over for Class 600, and 2.5" and over for Class 900 & 1500. With gearing, motor actuator or cylinder actuator, they are also available for more difficult services.





## END CONNECTION

- R.F FLANGED ENDS TO ASME B16.5
- B.W. ENDS TO ASME B16.25
- R.T.J FLANGED ENDS TO ASME B16.5
- SIZE 26" AND LARGER, FLANGED ENDS ACCORDING TO ASME B16.47 SER.A OR SER.B

## STANDARD MATERIAL SPECIFICATIONS

NO.	PART NAME	MATERIAL		
1	BODY	A216 - WCB	A217 - WC6	A351 - CF8M
2	BONNET	A216 - WCB	A217 - WC6	A351 - CF8M
3	DISC	A217 - CA15+STL	A217 - CA15+STL	A351 - CF8+STL
4	STEM	A479 - 410	A479 - 410	A479 - 304
5	HAND WHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
6	BODY SEAT RING	A216 - WCB+STL	A217 - WC6+STL	A351 - CF8+STL
7	BACK SEAT RING	A479 - 410	A479 - 410	A479 - 304
8	GASKET	SPIRAL WOUND / GRAPHITE+304+304		
9	PACKING	GRAPHITE+GRAPHITE WITH INCONEL WIRE		
10	GLAND FLANGE	A283 - D	A283 - D	A351 - CF8
11	HINGE BOLT	A307 - B	A307 - B	A193 - B8
12	HINGE NUT	A194 - 2H	A194 - 2H	A194 - 8
13	HINGE PIN	A576 - 1020	A576 - 1020	A479 - 304
14	PACKING GLAND	A576 - 1020+Cr	A479 - 410	A479 - 304
15	BONNET BOLT	A193 - B7	A193 - B16	A193 - B8
16	BONNET NUT	A194 - 2H	A194 - 4	A194 - 8
17	YOKE BUSH	A439 - D2C	A439 - D2C	A439 - D2C
18	LOCK NUT	A479 - 410	A479 - 410	A479 - 304
19	HANDLE NUT	A563 - A	A563 - A	A194 - 8
21	SHAKE ADAPTER	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
22	HANDLE COVER	A283 - D	A283 - D	A283 - D
23	GEAR BOX	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
24	STEM COVER	A53	A53	A53

## DIMENSION AND WEIGHT

### CLASS 150

UNIT:mm

SIZE	2	3	4	6	8	10	12	14	16	18	20	24
L	203.2	241.3	292.1	406.4	495.3	622.3	698.5	787.4	914.4	978.0	978.0	1295.4
L1	203.2	241.3	292.1	406.4	495.3	622.3	698.5	787.4	914.4	978.0	-	-
D	200	250	315	355	355	400	400	-	-	-	-	-
D1	-	-	-	-	450	450	500	560	630	630	800	800
H	284	344	388	505	623	805	839	-	-	-	-	-
H1	-	-	-	-	577	626	800	922	980	1140	1825	2029
WEIGHT(Kg)	14	27	43	91	178	256	409	616	825	960	1387	1988

### CLASS 300

UNIT:mm

SIZE	2	3	4	6	8	10	12	16	18	20	24	28
L	266.7	317.5	355.6	444.5	558.8	622.3	711.2	863.6	914.4	1016.0	1346.2	1498.6
L1	266.7	317.5	355.6	444.5	558.8	622.3	711.2	863.6	-	-	-	-
D	200	250	315	355	400	450	500	-	-	-	-	-
D1	-	-	-	-	500	560	630	710	710	800	800	800
H	286	346	392	618	793	1145	1260	-	-	-	-	-
H1	-	-	-	-	805	880	971	1120	1220	1674	2086	2338
WEIGHT(Kg)	20	37	58	140	260	422	567	975	1700	2090	3481	4590

### CLASS 600

UNIT:mm

SIZE	2	3	4	6	8	10	12	14	16	18	20	24	30
L	292.1	355.6	431.8	558.8	660.4	787.4	838.2	889.0	990.6	1092.2	1193.8	1397.0	1651.0
L1	292.1	355.6	431.8	558.8	660.4	787.4	838.2	-	-	-	-	-	-
D	224	315	315	450	-	-	-	-	-	-	-	-	-
D1	-	-	-	500	560	630	800	800	800	800	800	800	800
H	392	478	531	675	-	-	-	-	-	-	-	-	-
H1	-	-	-	689	754	959	1690	1871	2015	2449	2504	2595	3237
WEIGHT(Kg)	35	63	120	233	415	652	1316	1565	2120	3110	3490	4320	10800

### CLASS 900

UNIT:mm

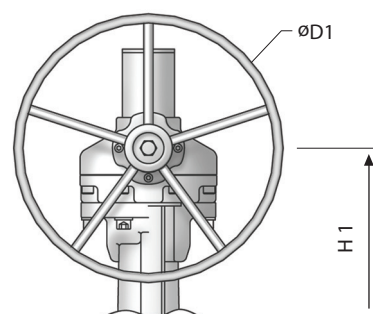
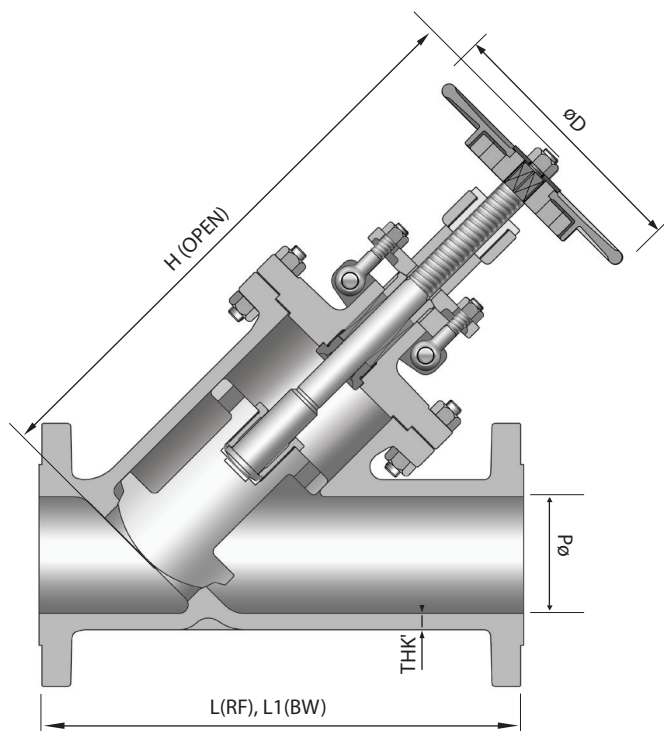
SIZE	2	3	4	6	8	12	14
L	368.3	381.0	457.2	609.6	736.6	965.2	1029
L1	368.3	381.0	457.2	609.6	736.6	965.2	-
D	315	315	355	450	710	-	900
D1	-	-	400	560	630	710	-
H	498	513	605	730	894	-	1913
H1	-	-	600	710	970	1101	-
WEIGHT(Kg)	77	103	177	388	655	1288	1500

### CLASS 1500

UNIT:mm

SIZE	2	3	4	6	8	14
L	368.3	469.9	546.1	704.9	831.9	990.6
L1	368.3	469.9	546.1	704.9	831.9	990.6
D	315	355	400	500	800	-
D1	-	-	400	630	710	800
H	497	584	714	1065	1191	-
H1	-	-	700	1105	1100	1206
WEIGHT(Kg)	77	147	262	669	1187	1827

# Y-GLOBE VALVE



GOV (GEAR OPERATED)

## NOTE

- DESIGN : ASME B16.34 & BS1873
- FACE TO FACE DIMENSION : ASME B16.10
- END FLANGE DIMENSION : ASME B16.5  
SIZE 26" & LARGER : ASME B16.47
- PRESSURE TEST : API 598

## STANDARD MATERIAL SPECIFICATIONS

NO.	PART NAME	MATERIAL		
1	BODY	A216 - WCB	A217 - WC6	A351 - CF8
2	BONNET	A216 - WCB	A217 - WC6	A351 - CF8
3	DISC	A217 - CA15+STL	A217 - CA15+STL	A351 - CF8+STL
4	STEM	A479 - 410	A479 - 410	A479 - 304
5	HAND WHEEL	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
6	BODY SEAT	A216 - WCB+STL	A217 - WC6+STL	A351 - CF8+STL
7	BACK SEAT RING	A479 - 410	A479 - 410	A479 - 304
8	GASKET	SPIRAL WOUND / GRAPHITE+304+304		
9	PACKING	GRAPHITE+GRAPHITE WITH INCONEL WIRE		
10	GLAND FLANGE	A283 - D	A283 - D	A351 - CF8
11	HINGE BOLT	A307 - B	A307 - B	A193 - B8
12	HINGE NUT	A194 - 2H	A194 - 2H	A194 - 8
13	HINGE PIN	A576 - 1020	A576 - 1020	A479 - 304
14	PACKING GLAND	A576 - 1020+Cr	A479 - 410	A479 - 304
15	BONNET BOLT	A193 - B7	A193 - B16	A193 - B8
16	BONNET NUT	A194 - 2H	A194 - 4	A194 - 8
17	YOKE BUSH	A439 - D2C	A439 - D2C	A439 - D2C
18	LOCK NUT	A479 - 410	A479 - 410	A479 - 304
19	HANDLE NUT	A563 - A	A563 - A	A194 - 8
21	SHAKE ADAPTER	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
22	HANDLE COVER	A283 - D	A283 - D	A283 - D
23	GEAR BOX	DUCTILE IRON	DUCTILE IRON	DUCTILE IRON
24	STEM COVER	A53	A53	A53

## DIMENSION AND WEIGHT

### CLASS 150

UNIT : mm

SIZE	2	4	6	8	12	14
L	228.6	368.3	470.0	596.9	-	787.4
L1	228.6	368.3	470.0	596.9	775.0	787.4
D	200	315	355	355	-	-
D1	-	-	-	450	500	560
H	353	491	644	803	-	-
H1	-	-	-	757	980	1185
d	50.8	101.6	152.4	203.2	304.8	336.6
THK'	8.6	11.2	11.9	12.7	16.1	17.0

### CLASS 300

UNIT : mm

SIZE	2	2 1/2	3	4	6	8	10	12	14
L	266.7	292.1	317.5	355.6	444.5	558.8	622.3	711.2	838.2
L1	266.7	292.1	317.5	355.6	444.5	558.8	622.3	711.2	838.2
D	200	224	250	315	355	400	450	-	-
D1	-	-	-	-	-	500	560	630	630
H	355	385	465	467	774	1006	1367	-	-
H1	-	-	-	-	-	1018	1102	1264	1326
d	50.8	63.5	76.2	101.6	152.4	203.2	254.0	304.8	336.6
THK'	9.7	11.2	11.9	12.7	16.0	17.5	19.2	20.7	23.0

### CLASS 600

UNIT : mm

SIZE	3	4	8	16	20
L	355.6	431.8	660.4	990.6	1193.8
L1	355.6	431.8	660.4	-	-
D	315	315	-	-	-
D1	-	-	560	900	900
H	578	669	-	-	-
H1	-	-	1075	1637	2158
d	76.2	101.6	200.0	374.7	463.6
THK'	13.2	16.0	25.6	38.5	45.0