



standard features

- **Description** EXTENDED BONNET
BOLTED BONNET
OUTSIDE SCREW AND YOKE
RISING STEM
NON RISING HANDWHEEL
- **Design** API 600
BS 1414
ASME B16.34
ISO 10434
- **Face to face** ASME B16.10
- **Flanges** ASME B16.5 (2" ÷ 24")
ASME B16.47 (≥ 26")
BW TO ASME B16.25
- **Testing** API 598
EN 12266
- **Rating** ASME B16.34
- **Marking** MSS-SP 25
CE - PED
- **Certificates** EN 10204 – 3.1 / 3.2

PART NAME	W45xSO	L45xSO	M45xSO	C45xSO	B45xSO	E45xSO	D45xSO	F45xSO	H45xSO
1 Body	WCB	LCB	WC6	C5	C12	CF8	CF8C	CF8M	CF3M
2 Bonnet	WCB	LCB	WC6	C5	C12	CF8	CF8C	CF8M	CF3M
3 Seat ring surface	F6A (1)	F6A (1)	F6A (1)	F6A (1)	F6A (1)	F304 (1)	F321 (1)	F316 (1)	F316L (1)
4 Wedge seat surfaces	F6A (2)	F6A (2)	F6A (2)	F6A (2)	F6A (2)	F304 (2)	F321 (2)	F316 (2)	F316L (2)
5 Stem	F6A (3)	F6A (3)	F6A (3)	F6A (3)	F6A (3)	F304 (3)	F321 (3)	F316 (3)	F316L (3)
6 Back seat	F6A (3)	F6A (3)	F6A (3)	F6A (3)	F6A (3)	F304 (3)	F321 (3)	F316 (3)	F316L (3)
7 Gland	F6A (3)	F6A (3)	F6A (3)	F6A (3)	F6A (3)	F304 (3)	F321 (3)	F316 (3)	F316L (3)
8 Gland flange	A105	F316	F316	F316	F316	F316	F316	F316	F316L
9 Yoke sleeve	B148 9A (4)	B148 9A (4)	Nod.Iron	Nod.Iron	Nod.Iron	B148 9A (4)	B148 9A (4)	B148 9A (4)	B148 9A (4)
10 Yoke nut	A105	A105	A105	A105	A105	F316	F316	F316	F316L
11 Handwheel					Steel				
12 Handwheel nut					A105				
13 Bolts	B7	L7	B16	B16	B16	B8	B8	B8	B8
14 Nuts	2H	G7	G7	G7	G7	G8	G8	G8	G8
15 Eye bolts	B7	L7	B16	B16	B16	B8	B8	B8	B8
16 Nuts	2H	G7	G7	G7	G7	G8	G8	G8	G8
17 Eye bolt pin	B7	L7	B16	B16	B16	B8	B8	B8	B8
18 Gasket						S.S. reinforced graphite (5)			
19 Packing						Graphite rings & wiper rings (6)			
20 Grease nipple						A105			
21 Bellow					A182 F321				
22 Extension	A105	LF2	F11	F5	F9	F304L	F347	F316L	F316L
23 Bellow flange						A182 F321			
24 No rot. Device	F6A	F6A	F6A	F6A	F6A	F304	F321	F316	F316L

(1) On request: faced with Stellite® - Monel® - Hastelloy® - other materials
 (2) On request: faced with Stellite® - Monel® - Hastelloy® - other materials
 (3) On request: 17 Cr - Monel® - Hastelloy® - other materials

(4) On request: Nodular Iron - Nitronic 60
 (5) On request: PTFE - other materials
 (6) On request: PTFE - other materials

All data, subject to technical changes, are only for information and not for official use.

FIG. N. 450SO - BELLOW GATE VALVES OVAL BODY ASME CLASS 150

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	---
L RF	178	191	203	229	254	267	292	330	356	381	406	432	457	508	---
L BW	216	241	282	305	381	403	419	457	502	571	610	660	711	813	---
D	152	178	191	229	254	279	343	406	483	533	597	635	699	813	---
V	200	200	225	250	250	300	400	500	500	600	600	700	700	800	---
H	610	675	820	940	1160	1530	1960	2350	2600	2980	3170	3550	4050	4650	---
H1	660	740	900	1040	1290	1680	2160	2600	2900	3350	3570	4000	4550	5250	---

FIG. N. 451SO - BELLOW GATE VALVES ASME CLASS 300

SIZE	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	---
L RF/BW	216	241	282	305	381	403	419	457	502	762	838	914	991	1143	---
L RTJ	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165	---
D	165	191	210	254	279	318	381	445	521	584	648	711	775	914	---
V	200	200	225	250	300	400	500	500	600	600	700	700	800	900	---
H	600	685	765	920	1070	1315	1700	2035	2395	2760	3135	3600	4080	4795	---
H1	650	750	840	1020	1200	1465	1900	2285	2700	3110	4535	4050	4580	5350	---

FIG. N. 452SO - BELLOW GATE VALVES ASME CLASS 600

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	---	---	---
L RF/BW	292	356	432	559	660	787	838	889	991	1092	1194	1397	---	---	---
L RTJ	295	359	435	562	663	791	841	892	994	1095	1200	1407	---	---	---
D	165	210	273	356	419	508	559	603	686	743	813	940	---	---	---
V	200	250	400	500	600	700	900	800	900	1000	1600	G.O.	---	---	---
H	640	805	905	1360	1720	2120	2500	---	---	---	---	---	---	---	---
H1	690	880	1010	1510	1920	2370	2800	---	---	---	---	---	---	---	---

FIG. N. 453SO - BELLOW GATE VALVES ASME CLASS 900

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
L RF/BW	368	381	457	610	737	838	965	1029	1130
L RTJ	371	384	460	613	740	841	968	1038	1140
D	216	241	292	381	470	546	610	641	705
V	250	300	400	600	650	700	900	1000	G.O.
H	---	---	---	---	---	---	---	---	---
H1	---	---	---	---	---	---	---	---	---

FIG. N. 454SO - BELLOW GATE VALVES ASME CLASS 1500

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
L RF/BW	368	470	546	705	832	991	1130	1257	1384
L RTJ	371	473	549	711	842	1000	1146	1276	1407
D	216	267	311	394	483	584	673	749	826
V	250	400	500	600	700	900	1600	1600	1600
H	---	---	---	---	---	---	---	---	---
H1	---	---	---	---	---	---	---	---	---

features on request

- TOP FLANGE TO ISO 5210
- GEAR OPERATOR
- CHAIN WHEEL OPERATOR
- PNEUMATIC ACTUATOR
- HYDRAULIC ACTUATOR
- ELECTRIC ACTUATOR
- POSITION INDICATOR
- LIMIT SWITCHES
- LOCKING / INTERLOCK SYSTEM
- PTFE SOFT SEATS
- STEM PROTECTION
- STEM EXTENSION
- LANTERN RING
- EXTENDED STUFFING BOX
- LIVE LOADED PACKING
- DRAIN PLUG
- BY PASS
- BW ENDS
- DIN CONNECTIONS

All dimensions in mm (except where differently indicated)

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