

CAST STEEL PRESSURE SEAL BONNET

Features

- ▶ Hawa Pressure Seal Globe Valves have been designed to meet the requirements of BS 1873 /ASME B 16.34
- ▶ Face to Face and End to End dimensions conform to ASME B 16.10 / ISO 5752 / BS 2080 / DIN
- ▶ End flange dimensions conform to ASME B 16.5 / ISO 7005-1 / API 605 / BS 3293 / DIN
- ▶ Butt weld end dimensions conform to ASME B 16.25
- ▶ Anti-frictional Ball bearings are provided for ease of operation.
- ▶ Outside screw and yoke construction
- ▶ All the valves provided with backseat arrangement duly satellite faced
- ▶ The gland is of self aligning two piece type
- ▶ Deep stuffing box
- ▶ The Seat-rings are satellite faced shoulder seated type having ample cross section for strength are securely welded in place
- ▶ The gasket design ensures self sealing under pressure
- ▶ The inner row of studs establish the initial seal of the Pressure seal joint
- ▶ Valves meet the requirements of fugitive emission levels Shell category B as per MESG SPE 77/312

Options

- ▶ Angle and Y type design available
- ▶ For low temperature and cryogenic services (cold box and non-cold box applications) extended bonnet as per BS 6364 available
- ▶ Locking arrangement
- ▶ Gear, Electrical, Hydraulic or Pneumatic actuator available
- ▶ Regulating, guided and soft seated plugs available
- ▶ Can be supplied with GRAYLOC END HUB, under project license from GRAYLOC PRODUCTS®, UK.

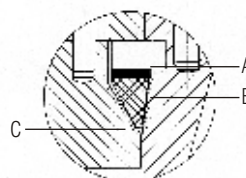
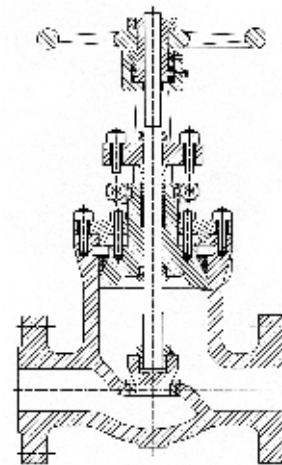
Materials

Part Name	Material Option
Body	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Bonnet	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Disc[@]	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Back Up Ring	ASTM A 216 WCB / A 351 CF8 / A 351 CF8M
Thrust Ring	ASTM A 216 WCB / A 351 CF8 / A 351 CF8M
Stem	ASTM A 276 410 / A 276 304 / A 276 304L / A 276 316L
Seat Rings[@]	ASTM A 216 WCB / A 217 WC6 / A 217 WC9 / A 217 C5 / A 217 C12 / A 351 CF8 / A 351 CF8M / A 351 CF3 / A 351 CF3M / A 352 LCB
Back Seat Bushing	Stellite
Gland	ASTM A 276 410 / A 276 304 / A 276 304L / A 276 316L
Gland Flange	Carbon Steel / Stainless Steel
Stem Nut	ASTM A 439 Gr.D2 / Al. Bronze
Lock Nut	Carbon Steel / SS 304
Gland Packing	Graphoil
Gasket	Soft Iron / SS 304 / Graphoil
Gland Eye - Bolt & Nut	Carbon Steel / Stainless Steel
Cross Bolts & Nuts	Carbon Steel / Stainless Steel
Hand Wheel	Carbon Steel
Hand Wheel Nut	Carbon Steel
Grease Nipple	Carbon Steel
Grub Screw	Carbon Steel
Studs / Bolts	ASTM A 193 B7 / A 193 B7M / A 193 BBM / A 320 L7
Nut	ASTM A 194 2H / A 194 8 / A 194 8M / A 194 4 / 7

* Valves are available in Duplex & Super Duplex Stainless Steel and Nickel Aluminium Bronze. Please indicate Trim required and ask for individual technical data sheets provided separately for these special materials.

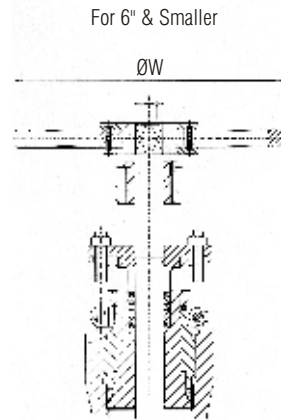
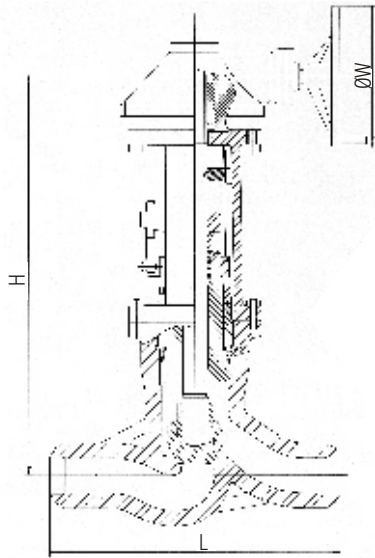
@ CS & Alloy Steel Wedges and Seat Rings will be overlaid with 13% CR. or STELLITE 6 as per customer specifications.

* Compliant to NACE MR-0175 (2002)



- A Back Up Ring** : Absorbs thrust applied by internal pressure
- B Thrust Ring** : Protects the soft metallic gasket from deformation
- C Gasket** : Unique angular design provides superior sealing

CAST STEEL PRESSURE SEAL BONNET



Dimensions

ISO PN 110 / ASME 600 Class

Size	DN	50	65	80	100	125	150	200	250	300
L / L1		292	330	355	431	508	558	660	787	838
L1 - SP		178	216	254	304	381	457	584	711	812
H (approx)		510	575	610	725	800	1010	1180	1360	1780
ØW		250	300	300	350	500	550	600	600	400*
Wt. (approx) kg		38	60	65	105	185	230	410	615	895

ISO PN 150 / ASME 900 Class

Size	DN	50	65	80	100	125	150	200	250	300
L / L1		368	419	381	457	559	609	736	838	965
L1 - SP		225	254	305	355	432	508	660	787	914
H (approx)		550	580	675	750	815	1085	1300	1420	1825
ØW		300	350	350	500	500	350*	350*	400*	450*
Wt. (approx) kg		70	85	105	130	255	315	670	925	1200

ISO PN 260 / ASME 1500 Class

Size	DN	50	65	80	100	125	150	200	250
L / L1		368	419	470	546	673	705	832	991
L1 - SP		216	254	305	406	483	559	711	864
H (approx)		565	580	680	800	825	1130	1450	1535
ØW		300	350	400	450	500	600	450*	500*
Wt. (approx) kg		80	90	115	160	300	410	650	1150

ISO PN 420 / ASME 2500 Class

Size	DN	50	65	80	100	125	150	200	250
L / L1		451	508	578	673	794	914	1022	1270
L1 - SP		279	330	368	457	533.5	609.5	762	914.5
H (approx)		575	605	725	835	875	1200	1510	1720
ØW		350	350	350*	400*	400*	400*	450*	550*
Wt. (approx) kg		95	110	125	210	565	615	1050	1525

* Gear Operation suggested. Dimensions on request.
Abbreviation : SP - Short Pattern

