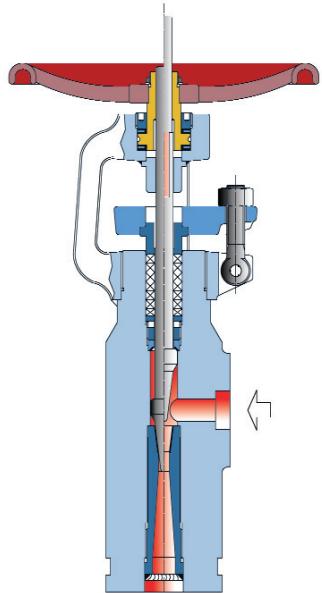


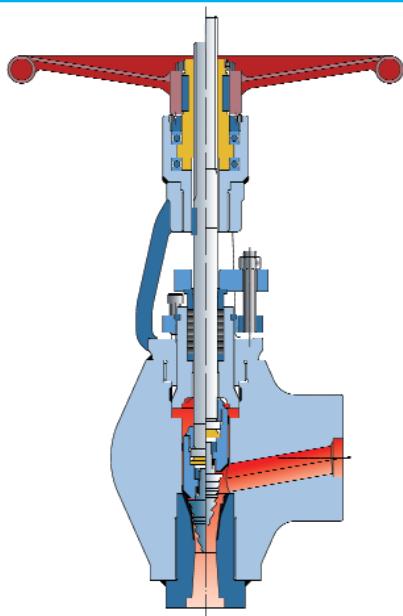
BONETTI®



6093

BONT®

**Forged Steel Valves
Type BLB
for
Continuous Blowdown
ASME Class
1700 - 2700 - 4500**



6094

BONT®

**Forged Steel Valves
Type BPR
for Blowoff
with Zero Leakage
after Closing Operation
ASME Class
1700 - 2700 - 4500**



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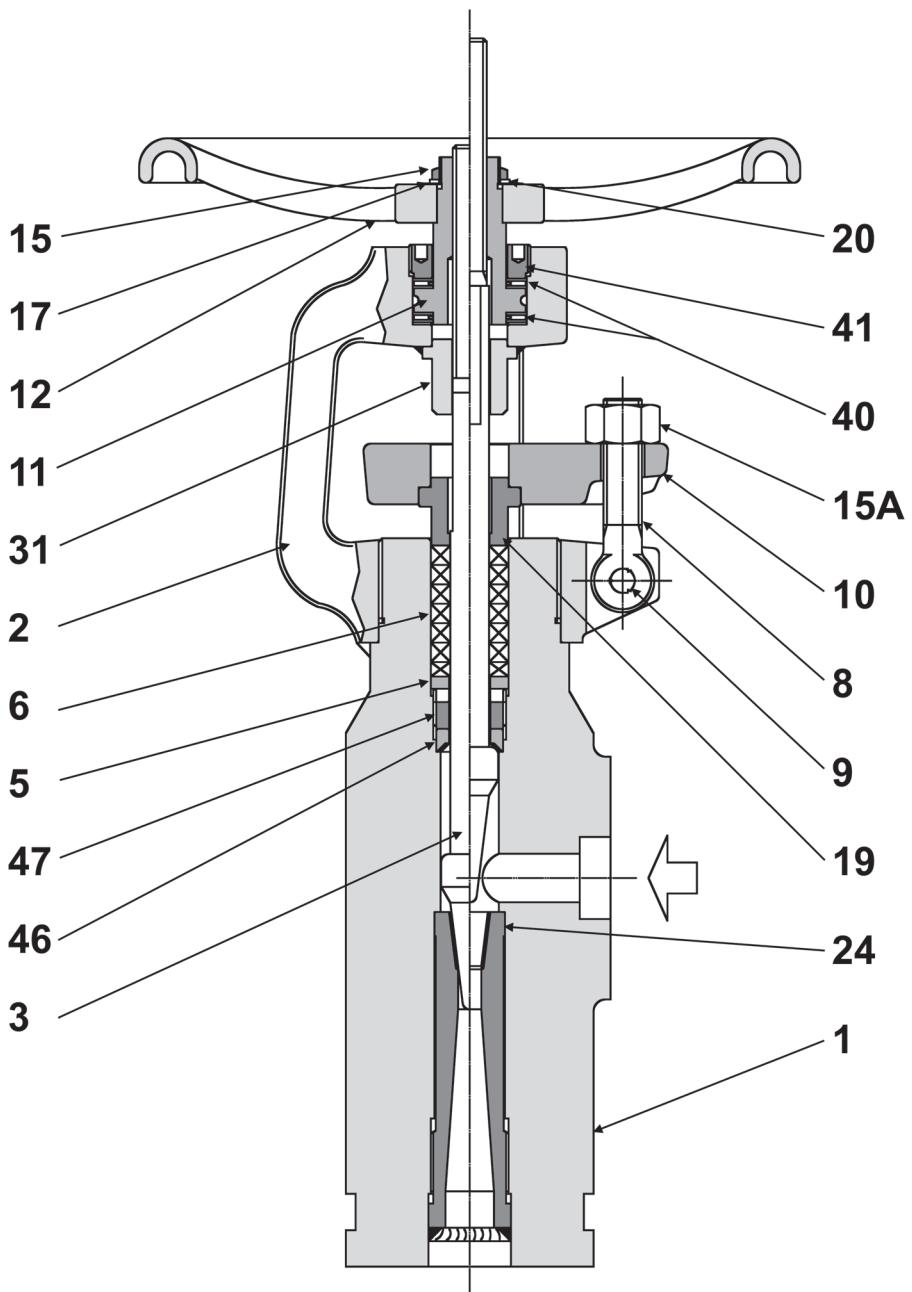
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BONT® Valves Type BLB, for Continuous Blowdown

Forged Steel - Bonnetless - Non-rotating Stem

ASME Class 1700 - 2700 - 4500



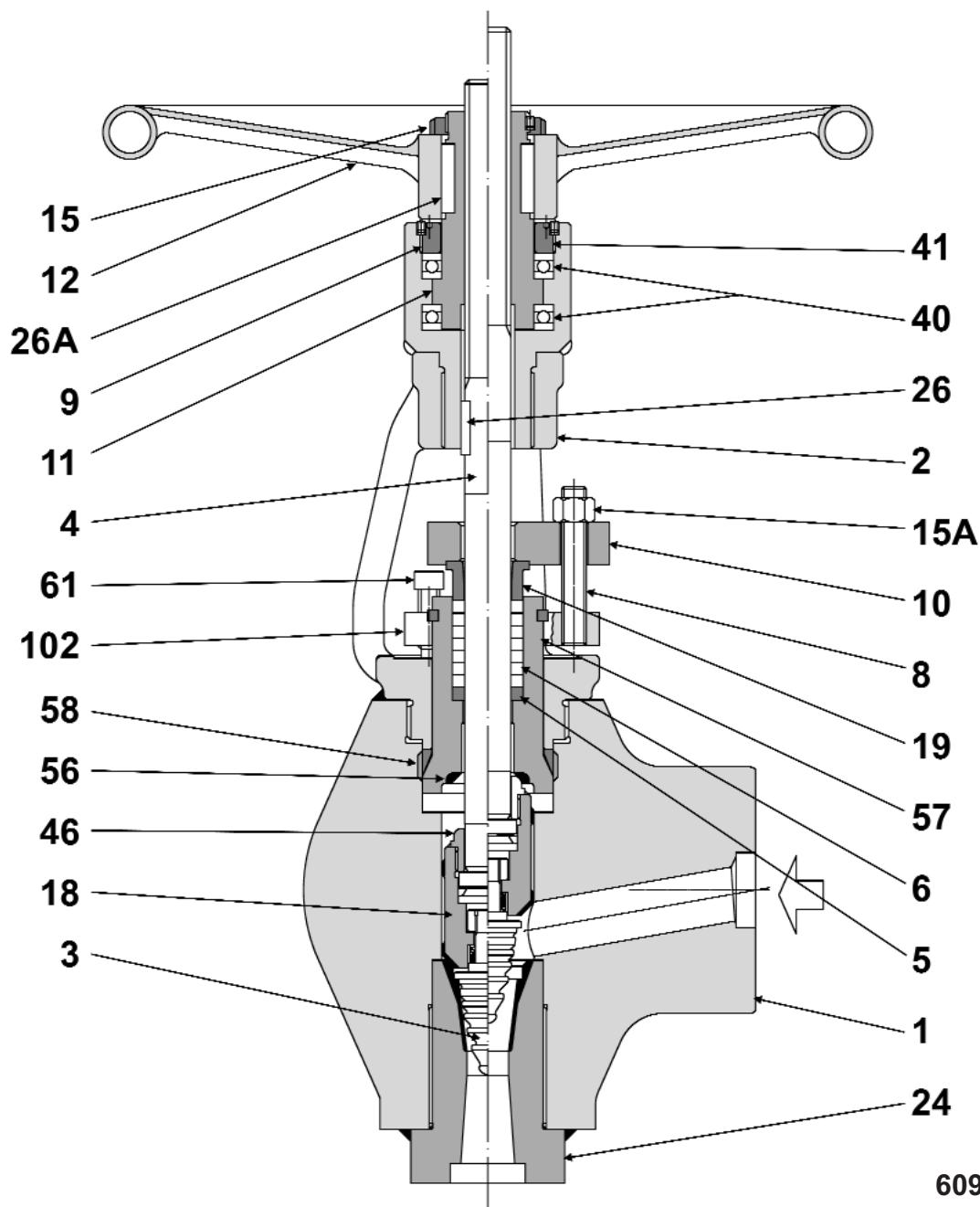
Part Material for Standard Material Schedule

Part No.	71	22	Part No.	71	22
1 Body	ASTM A105	ASTM A182 F22	24 Seat	ASTM A105 *	ASTM A182 F22 *
2 Yoke	ASTM A105	ASTM A105	+ Stellite Gr. 6	+ Stellite Gr. 6	+ Stellite Gr. 6
3 Disk - Stem	ASTM A479 410 c.3 *	ASTM A479 410 c.3 *	31 Antirotation Ring	ASTM A182 F6	ASTM A182 F6
5 Bottom Ring	+ Stellite Gr. 6	+ Stellite Gr. 6	40 Thrust bearing	Alloy Steel	Alloy Steel
6 Packing	Stainless Steel	Stainless Steel	41 Bushing Locking Ring	ASTM A182 F6	ASTM A182 F6
8 Swing Bolt	Graphite	Graphite	46 Backseat Ring	ASTM A479 316	ASTM A479 316
9 Pin	ASTM A193 B7	ASTM A193 B7	+ Stellite Gr. 6	+ Stellite Gr. 6	+ Stellite Gr. 6
10 Packing Flange	Alloy Steel	Alloy Steel	47 Backseat Locking Ring	ASTM A564 T.630	ASTM A564 T.630
11 Yoke Bushing	ASTM A105	ASTM A105			
12 Handwheel	ASTM B150 C62300	ASTM B150 C62300			
15 Handwheel Nut	Nodular Cast Iron	Nodular Cast Iron			
15A Bolt Nut	Carbon Steel	Carbon Steel			
17 Washer	ASTM A194 2H	ASTM A194 2H			
19 Split Gland	Carbon Steel	Carbon Steel			
20 Name Plate	Stainless Steel	Stainless Steel			
	Stainless Steel	Stainless Steel			

* For use at condition lower than ASME 600 lb Class and temperature lower than 350 °C (662 °F) we can use ASTM A562 T.630

BONT® Valves Type PBR, for Blowoff with Zero Leakage after Closing Operation

Forged Steel - Pressure Seal Bonnet - Non-rotating Stem
ASME Class 1700 - 2700 - 4500



Part Material for Standard Material Schedule

Part No.	71	22	Part No.	71	22
1 Body	ASTM A105 +Inlay 316	ASTM A182 F22 +Inlay 316	19 Gland	Stainless Steel	Stainless Steel
2 Yoke	ASTM A216 WCB/A105	ASTM A216 WCB/A105	24 Seat	ASTM A105 *	ASTM A182 F22 *
3 Throttling Disk	ASTM A479 410 +Stellite Gr. 6	ASTM A479 410 +Stellite Gr. 6	26 Stem Key	+ Stellite Gr. 6	+ Stellite Gr. 6
4 Stem	ASTM A479 410 c.3	ASTM A479 410 c.3	26A Bushing Key	Carbon Steel	Carbon Steel
5 Bottom Ring	Stainless Steel	Stainless Steel	40 Thrust Bearing	Carbon Steel	Carbon Steel
6 Packing	Graphite	Graphite	41 Bushing Locking Ring	Alloy Steel	Alloy Steel
8 Gland Stud	ASTM A193 B7	ASTM A193 B7	46 Connector	ASTM A105	ASTM A105
9 Grain	Carbon Steel	Alloy Steel	50 Pressure Seal Bonnet	ASTM A182 F6a cl.3	ASTM A182 F6a cl.3
10 Packing Flange	ASTM A105	ASTM A105	57 Bonnet Split Ring	Astm A105	ASTM A182 F2
11 Yoke Bushing	ASTM B150 C62300	ASTM B150 C62300	58 Pressure Seal gasket	+ Inlay 316	+ Inlay 316
12 Handwheel	Carbon Steel	Carbon Steel	61 Bonnet Bolt	AISI 4120 Q.T.	AISI 4120 Q.T.
15 Handwheel Locking Ring	Carbon Steel	Carbon Steel	102 Bonnet Flange	ASTM A182 F316	ASTM A182 F316
15A Stud Nut	ASTM A194 2H	ASTM A194 2H		ASTM A193 B7	ASTM A193 B7
18 Main Disk	ASTM A479 410 +Stellite Gr. 6	ASTM A479 410 +Stellite Gr. 6		ASTM A105	ASTM A105

* For use at condition lower than ASME 600 lb Class and temperature lower than 350 °C (662 °F) we can use ASTM A562 T.630

BONT® Valves Type BLB and PBR, for high Δp

ASME Class 1700 - 2700 - 4500

BONT® Valves Type BLB, for Continuous Blowdown

The continuous blowdown valves are needle valves designed for operation in open position. Their function is mainly to control a continuous flow of steam and/or water under high Δp .

For that reason the design and materials must be such as to minimise the effects of a fluid stream in condition of flashing or made of water containing sometime abrasive particles.

The outlet of our valves is purposely Venturi tube-shaped. The bonnetless design enables easy dismantling, inspection and maintenance. The stem is rising, non-rotating. A local stroke indicator shows the position of the disk.

The materials used for these valves are indicated on page 2 for the most requested Material Schedules, namely: Material Schedule 71, with carbon steel body; Material Schedule 22, with chromemolybdenum alloy steel body.

In spite of the above mentioned features, it can happen that these valves - after some operating time - are not able to ensure a tight seal, since even a slow-acting erosion deteriorates the working surfaces of the disk and seat. What above does not affect its function; the only consequence is a slight rise in the outflow rate, the disk being in the same position, remediable by closing a little the valve. The orifice can be selected in accordance with the Table Fig. 6095, where the section of the actual seat bore is indicated as a function of the upstream pressure as well as of the flow rate.

The downstream pressure does not affect the flow rate, being usually lower than the critical pressure.

The following data must be indicated for the selection of a BONT® valve, type BLB:

- fluid
- max flow rate
- upstream pressure P1
- downstream pressure P2
- temperature.

BONT® Valves type PBR, for Blowoff

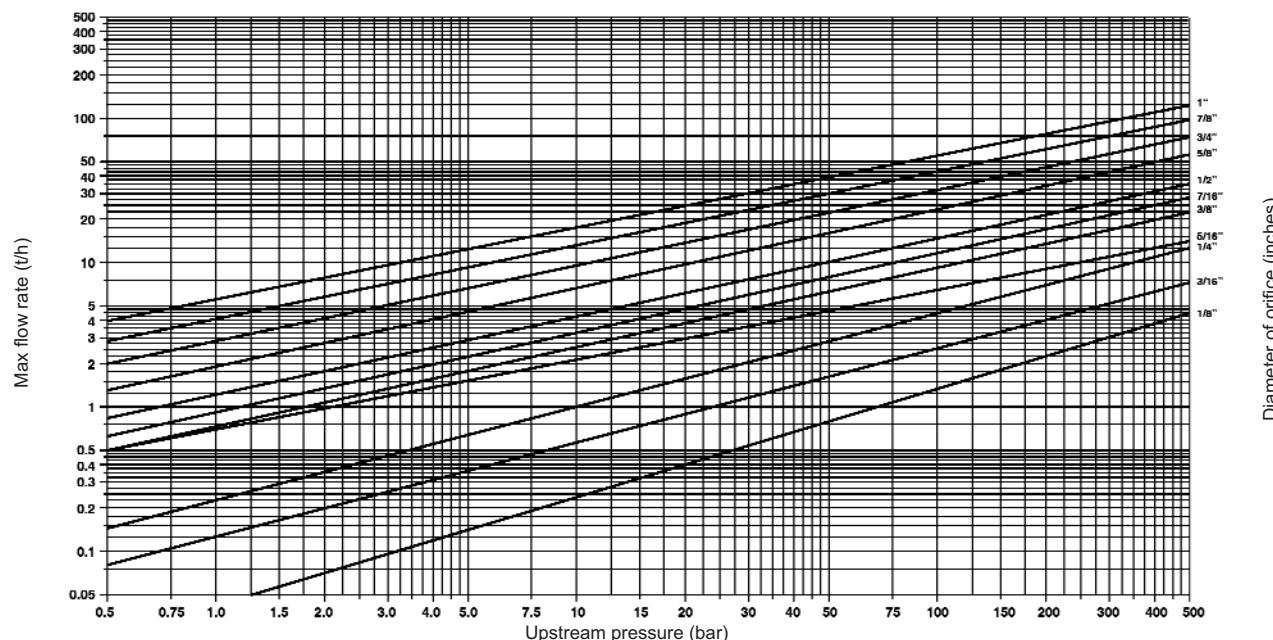
These valves are usually used when tight seal is needed after a blowoff operation. This utilization could be required by process necessity and/or economical reasons.

In the past the two functions were mostly performed by two different valves, fitted in series and operated in accordance with a definite sequence.

Our valve type PBR carries out both functions in sequence and namely: blowoff with valve suitably open and tight sealing with valve closed.

It is a multistage valve splitting the pressure drop along the whole disk that is along the different stages of the disk. The design of the disk, of the fluid path inside the valve as well the materials are suitable to operation with high Δp , therefore usually with critical flow.

Fig. 6095 - Chart of Flow Rate for Continuous Blowdown



We reserve the right to carry out any necessary alterations, without notice.