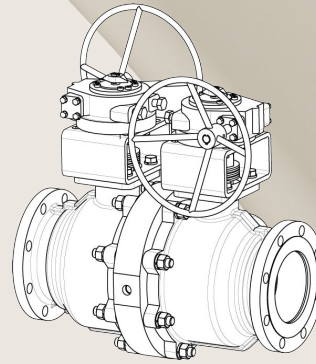




Breakthrough engineering for a better world

# Process Automation

Our product brands:  
IMI PBM



## AN Series 6 Sizes 1/2" to 6"

# Industrial ANSI API-607 Fire Tested Qualified Double Block & Bleed Valves 150# & 300#

[pbmvalve.com](http://pbmvalve.com)

### Design Features

- Valves are rated for full vacuum
- Valves have blowout proof stem
- Valves are Non Adjust-O-Seal and include Internal/ External Grounding
- AN Series ANSI Valves have an O-Ring Body Seal
- Valves are a three-piece design with flanges per ANSI B16.5 and includes a spool piece with bleed/gauge port between two valve bodies
- Standard Live Loaded Stem Packing
- Upstream/downstream bubble-tight sealing capability allows valve body cleaning, purging and draining
- Bleed or Gauge Ports available
- API 641 option available (consult factory)
- Encapsulated ID seat design (useable for some steam applications)
- Valves are ADI free
- Stem assembly accommodates IMI PBM Direct Mount Actuation for accurate alignment and increased cycling life
- Actuators mounted perpendicular to flow unless they are opposing each other by 180°
- Self-Flushing Ball Option available
- Valves 100% tested per ASME/ANSI B16.34
- Valves are designed, assembled and tested at our factory in the U.S.
- V-TEF and S-TEF seats are FDA Compliant and USP Class VI, valves also have graphite seals
- Material Test Reports (MTRS) can be provided for wetted metal components

### SPECIFICATIONS

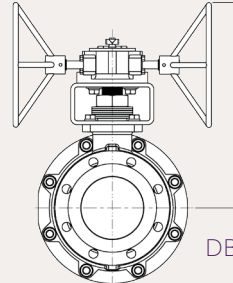
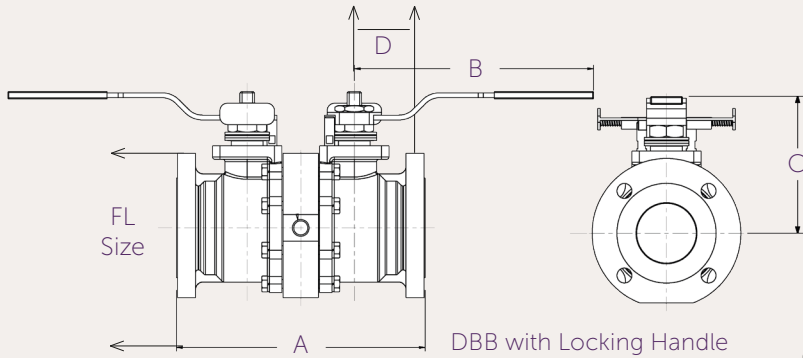
### AN SERIES 6 INDUSTRIAL DBB VALVES

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Sizes                        | 1/2" - 6" Series 6                                             |
| Material                     | 316 Stainless Steel, Hastelloy® C-276, Carbon Steel, others    |
| Temperatures                 | -20°F to 450°F depending on seat and seal material             |
| End Connections              | 150# and 300# RF Flange                                        |
| Seats, Seals & Stem Packings | V-TEF™, S-TEF®, C-TEF™ others available                        |
| O-Rings                      | O-Ring Seal (FKM V1274-75/80, EPDM E3609-70, others available) |
| Body Bolts & Nuts            | B16.34 bolting                                                 |
| Maximum Working Pressure     | In accordance with B16.34                                      |

| CV Values (gpm) |          |                   |                   |
|-----------------|----------|-------------------|-------------------|
| Size            | Cv (gpm) | Weight 150# Class | Weight 300# Class |
| 1/2"            | 13       | 3.55 lbs          | 4.8 lbs           |
| 3/4"            | 52       | 6.8 lbs           | 7.3 lbs           |
| 1"              | 80       | 8 lbs             | 11 lbs            |
| 1 1/2"          | 190      | 16 lbs            | 23 lbs            |
| 2"              | 400      | 25 lbs            | 30 lbs            |
| 3"              | 1,100    | 50 lbs            | 71 lbs            |
| 4"              | 2,400    | 96 lbs            | 130 lbs           |
| 6"              | 5,600    | 242 lbs*          | CF                |

| PRODUCT (1-2)<br>MATERIAL (3-4)                         |   | TYPE / CLASS (5)<br>SERIES (6)  |   | 1ST END<br>CONNECTION TYPE<br>(HP / UPSTREAM)<br>(7) |   | 2ND END<br>CONNECTION TYPE<br>(LP/DOWNSTREAM)<br>(8) |           | SEAT / SEAL<br>(9) | 1ST END<br>CONNECTION SIZE<br>(HP / UPSTREAM)<br>(10) |   | 2ND END<br>CONNECTION SIZE<br>(LP/DOWNSTREAM)<br>(11)        |   | BLEED PORT OPTIONS<br>(12)                     |   | OPERATOR<br>(13-14)                            |   | POLISH<br>OPTIONS<br>(15)                      |    |                                                           |   |                                               |
|---------------------------------------------------------|---|---------------------------------|---|------------------------------------------------------|---|------------------------------------------------------|-----------|--------------------|-------------------------------------------------------|---|--------------------------------------------------------------|---|------------------------------------------------|---|------------------------------------------------|---|------------------------------------------------|----|-----------------------------------------------------------|---|-----------------------------------------------|
| AN                                                      | H | Cast 316/<br>316L S / S         | K | Double Block<br>150# Class                           | 6 | L                                                    | RF Flange | L                  | RF Flange                                             | G | V-TEF™ Seats / Graphite Seals<br>FKM O-Ring                  | 1 | 1/2" Full Port                                 | 1 | 1/2" Full Port                                 | A | (1) 1/4" FNPT Bleed Port 90° from Stem         | -- | W/ Standard Lever Handle                                  | - | 125 Ra ID<br>Standard                         |
|                                                         | E | Carbon Steel<br>150# Class Only | L | Double Block<br>300# Class                           |   |                                                      |           |                    |                                                       | J | V-TEF™ Seats / Graphite Seals<br>VTFE Cav Fill / FKM O-Ring  | E | 3/4" Full Port                                 | E | 3/4" Full Port                                 | B | (1) 1/4" FNPT Bleed Port 180° from Stem        | 02 | W/O Handle<br>W/ Stem Actuator Prep                       | A | 20 Ra ID                                      |
|                                                         | C | Hastelloy C-276                 |   |                                                      |   |                                                      |           |                    |                                                       | Z | V-TEF™ Seats / Graphite Seals<br>EPR O-Ring                  | 4 | 1" Full Port                                   | 4 | 1" Full Port                                   | C | (1) 3/8" FNPT Bleed Port 90° from Stem         | 04 | Locking Lever Handle                                      | C | 20 Ra ID<br>/ 32 Ra<br>OD                     |
| Other material options available -<br>Contact IMI PBM.  |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       |   |                                                              | G | 1-1/2" Full Port                               | G | 1-1/2" Full Port                               | D | (1) 3/8" FNPT Bleed Port 180° from Stem        | 08 | Gear Operator (Req'd for 6")                              |   |                                               |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       | Z | V-TEF™ Seats / Graphite Seals<br>VTFE Cav Fill / EPR O-Ring  | H | 2" Full Port                                   | H | 2" Full Port                                   | E | (1) 1/2" FNPT Bleed Port 90° from Stem         | 16 | Stem Extension w/ lockable<br>lever handle (1/2" thru 4") | F | 20 Ra ID<br>after<br>Electro<br>Polish        |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       | Z | V-TEF™ Seats / Graphite Seals<br>VTFE Cav Fill / EPR O-Ring  | K | 3" Full Port                                   | K | 3" Full Port                                   | F | (1) 1/2" FNPT Bleed Port 180° from Stem        |    |                                                           |   |                                               |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       | 9 | V-TEF™ Seats / Graphite Seals<br>FEP encapsulated FKM O-Ring | L | 4" Full Port                                   | L | 4" Full Port                                   | G | (1) 3/4" FNPT Bleed Port 90° from Stem         | 20 | Double Acting 80psig actuator                             |   | More polish<br>available - Contact<br>IMI PBM |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       | H | S-TEF® Seats / Graphite Seals<br>FKM O-Ring                  | M | 6" Full Port                                   | M | 6" Full Port                                   | H | (1) 3/4" FNPT Bleed Port 180° from Stem        | 27 | Double Acting 60psig actuator                             |   |                                               |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       | H | S-TEF® Seats / Graphite Seals<br>FKM O-Ring                  | J | (1) 1/4" Socket Weld Bleed Port 90° from Stem  | J | (1) 1/4" Socket Weld Bleed Port 90° from Stem  | K | (1) 1/4" Socket Weld Bleed Port 180° from Stem | 34 | Spring Return 80psig actuator                             |   |                                               |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       | 0 | S-TEF® Seats / Graphite Seals EPR<br>O-Ring                  | L | (1) 3/8" Socket Weld Bleed Port 90° from Stem  | L | (1) 3/8" Socket Weld Bleed Port 90° from Stem  | L | (1) 3/8" Socket Weld Bleed Port 180° from Stem | 41 | Spring Return 60psig actuator                             |   |                                               |
| Other seat/seal options available -<br>Contact IMI PBM. |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       |   |                                                              | M | (1) 3/8" Socket Weld Bleed Port 180° from Stem | M | (1) 3/8" Socket Weld Bleed Port 180° from Stem | N | (1) 1/2" Socket Weld Bleed Port 90° from Stem  |    | Other operator options available -<br>Contact IMI PBM     |   |                                               |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       |   |                                                              | P | (1) 1/2" Socket Weld Bleed Port 180° from Stem | P | (1) 1/2" Socket Weld Bleed Port 180° from Stem | Q | (1) 3/4" Socket Weld Bleed Port 90° from Stem  |    |                                                           |   |                                               |
|                                                         |   |                                 |   |                                                      |   |                                                      |           |                    |                                                       |   |                                                              | R | (1) 3/4" Socket Weld Bleed Port 180° from Stem | R | (1) 3/4" Socket Weld Bleed Port 180° from Stem |   |                                                |    |                                                           |   |                                               |

Note: End Connections are always the same size.



DBB with Gear Operator [6" ONLY]

### AN Series 6 Double Block & Bleed Dimensioned Valves in Inches

| Valve<br>Size | A     |       | B       |         | C       |         | D       |         | FL    |       |
|---------------|-------|-------|---------|---------|---------|---------|---------|---------|-------|-------|
|               | CL150 | CL300 | CL150   | CL300   | CL150   | CL300   | CL150   | CL300   | CL150 | CL300 |
| 1/2"          | 7.00  | 8.34  | 4.15    | 4.15    | 2.66    | 2.66    |         |         |       |       |
| 3/4"          | 7.75  | 9.31  | 4.15    | 4.15    | 2.81    | 2.81    |         |         |       |       |
| 1"            | 9.04  | 10.84 | 5.09    | 5.09    | 3.09    | 3.09    |         |         |       |       |
| 1-1/2"        | 11.57 | 12.57 | 8.03    | 8.03    | 4.43    | 4.43    |         |         |       |       |
| 2"            | 12.60 | 14.04 | 8.03    | 8.03    | 4.74    | 4.74    |         |         |       |       |
| 3"            | 12.54 | 15.78 | 12.06   | 12.06   | 6.85    | 6.85    |         |         |       |       |
| 4"            | 14.72 | 17.72 | 24.06   | 24.06   | 9.00    | 9.00    |         |         |       |       |
| 6"            | 24.46 | 29.19 | GEAR OP | GEAR OP | GEAR OP | GEAR OP | GEAR OP | GEAR OP |       |       |

For 6" with gear operator consult IMI PBM for dimensions.

Find out more  
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