

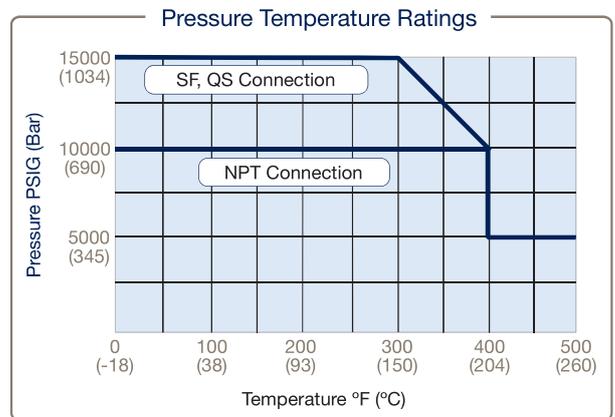
# 10DB Series: .623" (15.82mm) Orifice - Pressures to 15,000 psi (1034 bar)



Series M10DB Vent Valve Option Shown

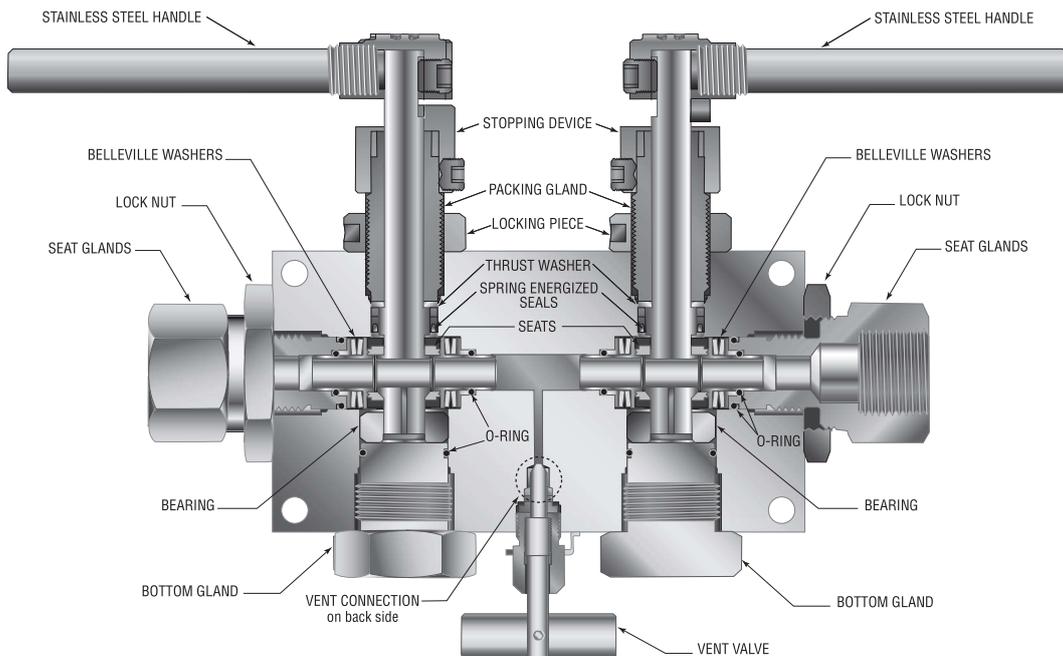
Connection Type	MAWP** at Room temperature	Minimum Orifice Inches (mm)	Rated C <sub>v</sub> *
SF750CX10 (3/4" MP)	15,000 psi (1034 bar)	0.516 (13.11)	11.5
SF1000CX10 (1" MP)	15,000 psi (1034 bar)	0.623 (15.82)	28.1
SF1500CX (1.5" MP)	15,000 psi (1034 bar)	0.623 (15.82)	28.1
3/4" FNPT	10,000 psi (690 bar)	0.623 (15.82)	28.1
1" FNPT	10,000 psi (690 bar)	0.623 (15.82)	28.1
QS750 (3/4" QSS)	15,000 psi (1034 bar)	0.623 (15.82)	11.5
QS1000 (1" QSS)	15,000 psi (1034 bar)	0.623 (15.82)	16.5

\*\* Special materials often have reduced MAWP ratings, see Technical brochure for assistance



### 10DB Series Ball Valve Series

Pressure Ratings are determined by the end connections chosen, see chart. Maximum Temperature rating is determined by the o-ring material. NPT connections are limited to 400°F max due to PTFE Sealant.



See ball valve actuator section for full description, additional information, and options. additional information, and options.

## Ordering Guide:

For complete information on available end connections and material options, see below. 10DB Series ball valves are furnished complete with tube or pipe connections. Standard valve has FKM o-rings [400°F (204°C) maximum].

### Building a Part Number: *Example: 10DB15M12M4*

Example Part Number:	<b>10DB</b>	<b>15</b>	<b>M12</b>	<b>M4</b>	<b>-</b>	<b>XXX</b>
Ordering Parameters/Options:	Valve Series	Pressure (x 1000 psi)	Tube Connection	Vent Connection		Options
Table Reference: (see below)	A	B	C	D		E

#### A - Valve Series

10DB	5/8 Double Block and Bleed Ball Valve
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#### B - Pressure (x 1000 psi)

10	10,000 psi
15	15,000 psi

#### C - Tube Connection

	Connection	MAWP @ RT	Seat Gland Hex
M12	SF750CX10 (3/4 MP)	15,000 psi	1.87"
M16	SF1000CX10 (1" MP)	15,000 psi	1.87"
M24	SF1500CX10 (1.5 MP)	15,000 psi	2.25"
P12	3/4" FNPT	10,000 psi	1.87"
P16	1" FNPT	10,000 psi	1.87"
Q12	QS750 (3/4" QSS)	15,000 psi	1.87"
Q16	QS1000 (1" QSS)	15,000 psi	2.00"

#### D - Vent Connection

M4	1/4" MP - SF250CX20 connection
P4	1/4" NPT
Q4	1/4" QS250 Connection

#### E - Options (suffix addition)

HT	O-ring, Perfluoroelastomer - FFKM 30° to 500°F (260°C)
EPR	O-ring, Ethylene Propylene Rubber, 0° to 250°F (121°C)
SOG*	NACE Material, Hardness Verification/Certificate
2507**	UNS 32750 2507 Super Duplex Stainless Steel
IN625**	UNS N06625 Inconel 625 Materials
K	Antivibration Gland Fitting (Cone and Thread Connections only)
L	Lock-out Bracket, Stainless Steel

#### Notes:

316 SS Valve bodies are cold worked and not suitable for use in NACE/ISO 15156 applications. If required, contact factory for options.

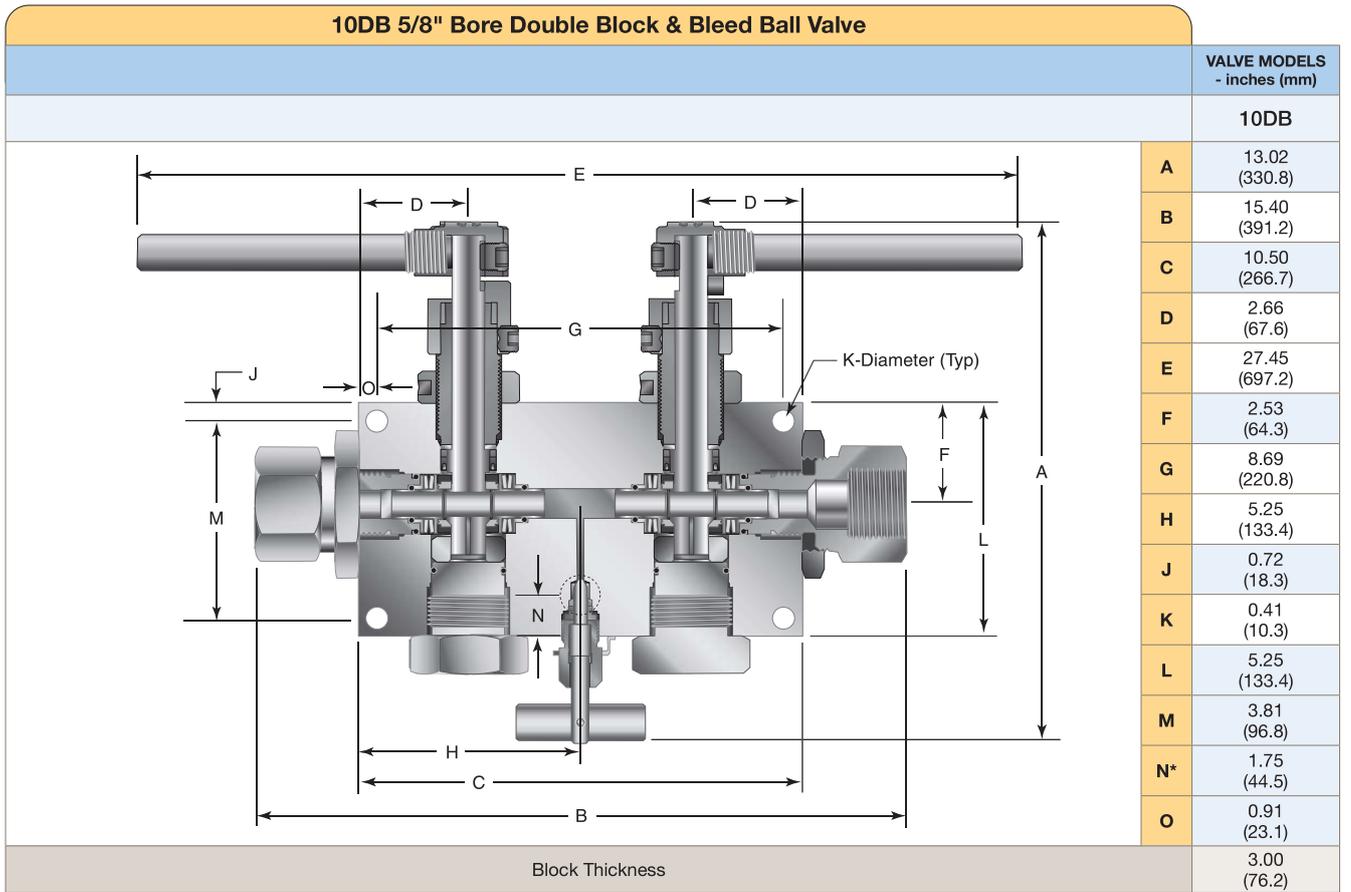
\* SOG suffix also changes CW 316 SS body material to Annealed 316 SS suitable for NACE service. Contact factory for pressure reduction.

\*\* Special materials often have reduced MAWP ratings, see Technical brochure for assistance.

## Basic Repair Kits:

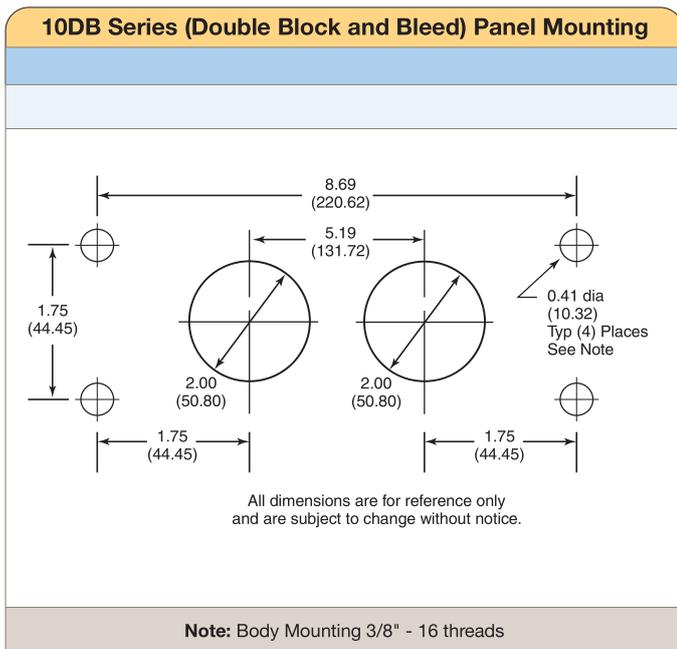
10DB Double Block & Bleed Valves are not repairable in field and must be returned to authorized repair center or factory location.

# 10DB Series 5/8" Bore Ball Valve Dimensions:



\* Centerline location of vent outlet port

## Panel Mounting Dimensions:



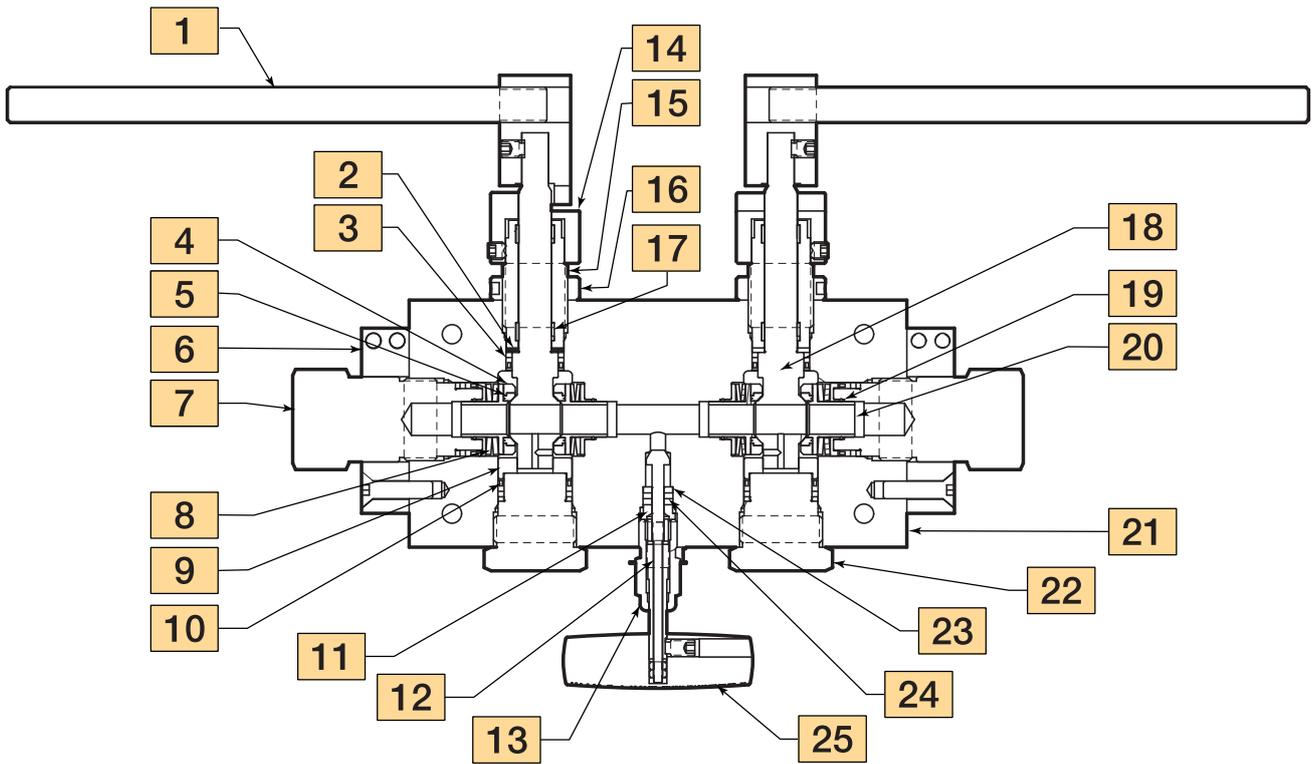
## Material of Construction:

Item #	Description	Material
1	Handle	316 SS
2	Thrust Washer	AMPCO 45
3	Gland Seal	Carbon Filled PTFE
4	Seat Retainer	Nitronic 50 HC
5	Seat	Carbon Filled Peek
6	Locking Device	316 SS
7	Seat Gland	316 SS
8	Belleville Washer Backup	316 CW SS
9	Bottom Bearing	AMPCO 45
10	O-ring	90 Duro FKM
11	Packing Washer	AMPCO 45
12	Vent Valve Stem	316 SS
13	Packing Gland	316 SS
14	Stopping Device	316 SS
15	Packing Gland	316 SS
16	Locking Piece	316 SS
17	Bearing Guide	Virgin PEEK
18	Ball Stem	316 SS
19	O-ring	90 Duro FKM
20	Stress Riser Backup	Carbon Filled Peek
21	Body	316 SS
22	Bottom Gland	316 SS
23	Bottom Washer	316 SS
24	Packing	PTFE
25	Handle	316 SS

Please reference drawing on Page 9

# 10DB Series 5/8" Bore Ball Valve Material:

## 5/8" Double Block and Bleed Ball Valve Part Identification



Many valve parts are duplicated but are only identified once for clarity.