#### **Double Block and Bleed**

# **6DB Series**

Pressures to 15,000 psi (1035 bar)

Parker Autoclave Engineers series 6DB double block valve is a two-stem ball valve providing an economical and convenient method of blocking and bleeding in applications such as pressure monitoring and test, chemical injection and drain line isolation. This full port quarter turn double ball valve is designed for operation up to 15,000 psi (1034 bar).

#### **Double Block and Bleed Features:**

- One piece, trunnion mounted stem design eliminates shear failure and reduces the effects of side loading found in two piece designs.
- Re-torqueable seat glands for longer seat life.
- Carbon filled PEEK seats offer excellent resistance to chemicals, heat and wear/abrasion.
- Vee-stem vent valve.
- Full-port flow path minimizes pressure drop.
- 316 cold worked stainless steel construction.
- Low friction pressure assisted graphite filled PTFE stem seal increases cycle life and reduces operating torque.
- Quarter turn from open to close with positive stop.
- Viton o-rings for operation from 0°F (-17.8°C) to 400°F (204°C).

Parker Autoclave Engineers valves are complemented by a complete line of fittings, tubings and accessories. The 6DB Series is available with various connections and options.









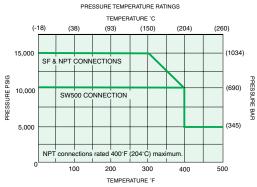


# Ball Valves- 6DB Series

### Pressures to 15,000 psi (1034 bar) .328" (8.33mm) Orifice

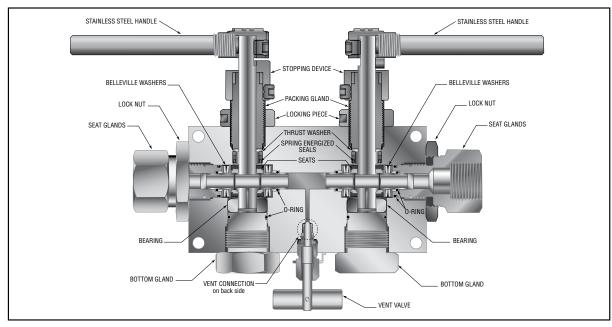
Connection	MAWP @ Room Temperature	
SW500	10,000 psi (690 bar)	.328 (8.33)
SF375CX20	15,000 psi (1034 bar)	.203 (5.16)
SF562CX20	15,000 psi (1034 bar)	.312 (7.92)
SF750CX20	15,000 psi (1034 bar)	.328 (8.33)
1/4" NPT	15,000 psi (1034 bar)	.328 (8.33)
3/8" NPT	15,000 psi (1034 bar)	.328 (8.33)
1/2" NPT	15,000 psi (1034 bar)	.328 (8.33)
	Valve C <sub>V</sub> =2.3	

MAWP: Maximum Allowable Working Pressure  $C_V$  calculated with both ball valves open and the needle valve closed.  $C_V$  listed is for maximum orifice size of .328 inches only. Consult factory for  $C_V$  of valves with reduced orifice sizes.



Pressure ratings are determined by the end connections chosen, see chart.





NOTE: Ball valves are not recommended for critical gas applications such as Hydrogen, Helium or other small molecular gases.



#### Ordering Procedure

For complete information on available end connections, see end connections options below. 6DB Series ball valves are furnished complete with tube or pipe connections.

Typical catalog number: 6DB 15 M9 M4 -XXX 6DB 15 **M9 M4** XXX Valve Pressure Tube **Vent Connection** HT - High Temperature Series (X 1000 psi) Connection M4 - SF250CX20 6DB: 3/8 Double Block M9 - SF562CX20 (see chart below)

(see chart below)

Connection Options Connection Options						
Catalog Number	Tube Connection Number	Connection	MAWP @ Room Temperature	Hex Inches(mm)	Vent Connection Number	Vent Connection
6DB10L8P4	L8	SW500	10,000 psi (690 bar)	1.38 (35.05)	P4	1/4" NPT
6DB15M4M4	M4	SF250CX20	15,000 psi (1034 bar)	1.38 (35.05)	M4	SF250CX20
6DB15M6M4	M6	SF375CX20	15,000 psi (1034 bar)	1.38 (35.05)	M4	SF250CX20
6DB15M9M4	M9	SF562CX20	15,000 psi (1034 bar)	1.38 (35.05)	M4	SF250CX20
6DB15M12M4	M12	SF750CX20	15,000 psi (1034 bar)	1.38 (35.05)	M4	SF250CX20
6DB15M9P4	M9	SF562CX20	15,000 psi (1034 bar)	1.38 (35.05)	P4	1/4" NPT
6DB15M16P4	M16	SF1000CX20	15,000 psi (1034 bar)	1.75 (44.45)	P4	1/4" NPT
6DB15P4P4	P4	1/4" NPT	15,000 psi (1034 bar)	1.38 (35.05)	P4	1/4" NPT
6DB15P6P4	P6	3/8" NPT	15,000 psi (1034 bar)	1.38 (35.05)	P4	1/4" NPT
6DB15P8P4	P8	1/2" NPT	15,000 psi (1034 bar)	1.38 (35.05)	P4	1/4" NPT

MAWP: Maximum Allowable Working Pressure

### **Ball Valve Options**

#### **High Temperature Option:**

HT - for media temperature up to 500°F (260°C)

See ball valve options/details for full description, connection details and high temperature options.

For material options consult factory.

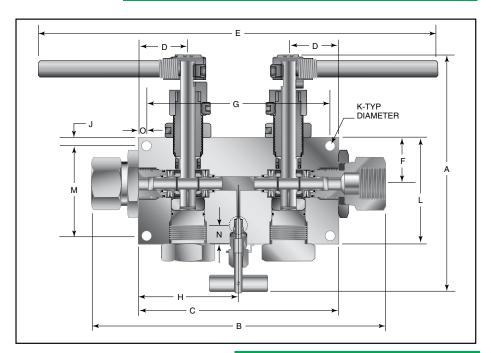
#### Valve Maintenance

Consult your Parker Autoclave Engineers representative for pricing on repair kits. Refer to the Operation and Maintenance manual for proper maintenance procedures.

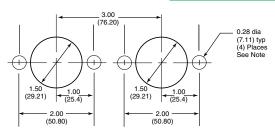


#### **Ball Valve Dimensions - inches (mm)**

VALVE MODEL 6DB			
Α	7.14 (181.36)		
В	8.81 (223.77)		
С	6.00 (152.40)		
D	1.50 (38.10)		
E	12.94 (328.68)		
F	1.38 (34.92)		
G	5.00 (127.00)		
Н	3.00 (76.2)		
J	0.41 (10.30)		
К	0.28 (7.14)		
L	3.19 (81.03)		
М	2.38 (60.40)		
N	0.65 (16.51)		
0	0.50 (12.70)		
Block Thickness	1.75 (44.45)		



## Ball Valve Panel Mounting Dimensions - inches (mm)



All dimensions are for reference only and are subject to change without notice.

NOTE: Body Top Mounting 1/4-20 Thread

#### WARNING

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Caution! Parker Autoclave Engineers Valves, Fittings and Tools are not designed to work with common commercial instrument tubing and will only work with tubing built to Parker Autoclave Engineers AES Specifications. Failure to do so will void warranty.

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