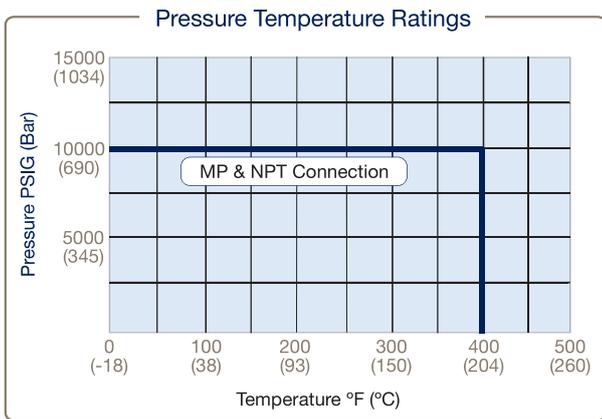


3 Way Subsea Series: 1/2" (12.7mm) Orifice

Pressures to 10,000 psi (690 bar)

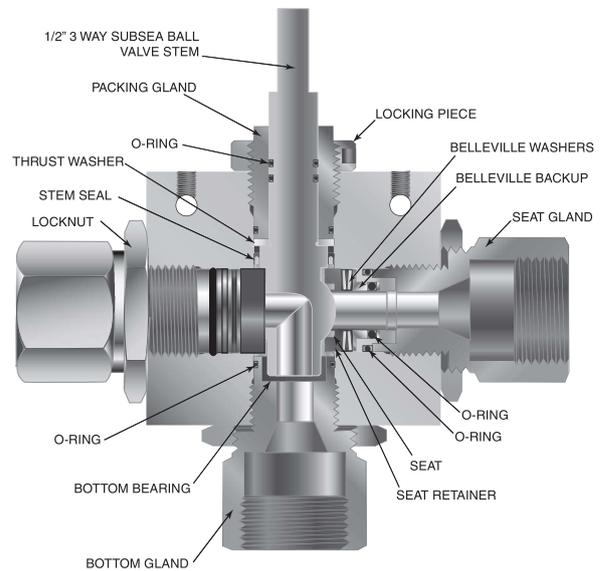


Connection Type	MAWP at Room Temperature	Minimum Orifice Inches (mm)	Rated C _v
SF750CX20 (3/4" MP)	10,000 psi (690 bar)	0.500 (12.70)	4.4
SF1000CX20 (1" MP)	10,000 psi (690 bar)	0.500 (12.70)	4.4
3/4" FNPT	10,000 psi (690 bar)	0.500 (12.70)	4.4
1" FNPT	10,000 psi (690 bar)	0.500 (12.70)	4.4



3 Way 1/2" Bore Subsea Ball Valve

Pressure Ratings are determined by the end connections chosen, see chart. Maximum Temperature rating is determined by the o-ring or PEEK seat material.
Note: Side inlet pressure not recommended. Bottom inlet pressure only.
 PAE Ball Valves are designed to be used in fully open or fully closed position.
 NPT connections are limited to 400°F max due to PTFE Sealant.



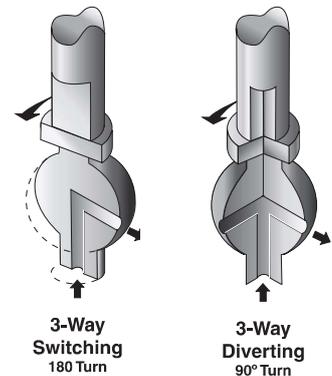
To ensure proper fit use Parker Autoclave tubing

NOTE: Critical gas applications such as Hydrogen or Helium should be evaluated on a case by case basis. Consult factory.
 Ball Valves are designed to be operated in fully open or fully closed position

Flow Configuration

Ball Valve O-ring Options:

V	FKM material: 0° to 400°F (-18° to 204°C)
EPR	Propylene Rubber: -20° to 250°F (-29° to 121°C)



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

Ordering Guide:

For complete information on available end connections, see previous page. 3-way ball valves are furnished complete with tube or pipe connections. Standard valve has Buna-N o-rings [250°F (121°C) maximum].

Building a Part Number: Example: 3B8S10M12

Example Part Number:	S3B	8	S	10	M12	-	XXX
Ordering Parameters/Options:	Valve Series	Ball Orifice Diameter	Material	Pressure (x 1000 psi)	End Connection		Options
Table Reference: (see below)	A	B	C	D	E		F

A - Valve Series	
S3B	3 Way Subsea Switching Valve (180° Handle Turn)
S3BD	3 Way Subsea Diverter Valve (90° Handle Turn)

B - Ball Orifice Diameter	
8	1/2" (12.7mm)

C - Base Material	
S	UNS S31600/S31603 CW 316 SS (options, contact factory)
IN625	IN625 UNS N06625, Inconel 625

D - Pressure (x 1000 psi)	
10	10,000 psi

E - End Connection			
	Connection	MAWP @ RT	Seat Gland Hex
M12	SF750CX20 (3/4" MP)	10,000 psi	1.75"
M16	SF1000CX20 (1" MP)	10,000 psi	1.75"
P12	3/4" NPT	10,000 psi	1.75"
P16	1" NPT	10,000 psi	1.75"

F - Options	
V	FKM material: 0° to 400°F (-18° to 204°C)
EPR	Ethylene Propylene Rubber: -20° to 250°F (-29° to 121°C)
SOG	NACE Material, Hardness Verification/Certificate
IN625	UNS N06625 Inconel 625 Materials
AP	All Parts (including collar and gland) optional to use with special materials
K	Antivibration Gland Fitting (Cone and Thread Connections only)
H	Handle/Handle Stop

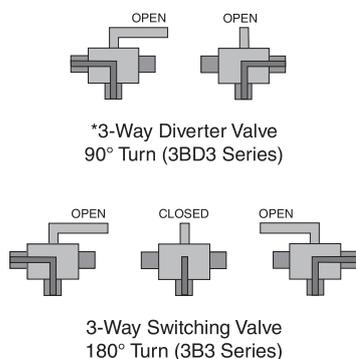
Basic Repair Kits:

When ordering a basic repair kit add an "R" prefix before product model codes A, B, and C (see above). Example: **RS3B8S**

When ordering with "F-Options" add an "R" prefix before model codes A, B, C and F (see above). Example: **RS3B8S-EPR**

Contact your Parker Autoclave Engineers Sales Representative with any questions.

Diverter Flow Control:



*The Diverter Valve design permits inlet flow through the bottom port. Outlet flow may be diverted to either valve side port with only a 90° turn.

Material of Construction:

Item #	Description	Material
1	Stem Seal w/ Spring	PTFE w/ Graphite
2	Belleville Washer	302 SS
3	O-Ring	Buna-N
4	O-Ring	Buna-N
5	O-Ring	Buna-N
6	O-Ring	Buna-N
7	Thrust Washer	AMPCO 45
8	Locking Piece	316 SS
9	Locknut	316 SS
10	Seat	Carbon Filled Peek
11	Seat Retainer	Nitronic 50 HC
12	Belleville Washer Backup	316 CW SS
13	Bottom Bearing	AMPCO 45
14	Stem	316 CW SS
15	Packing Gland	316 CW SS
16	Bottom Gland	316 CW SS
17	Body	316 CW SS
18	Seat Gland	316 CW SS

Typical spare parts found in Repair Kits

Please reference drawing on Page 26

