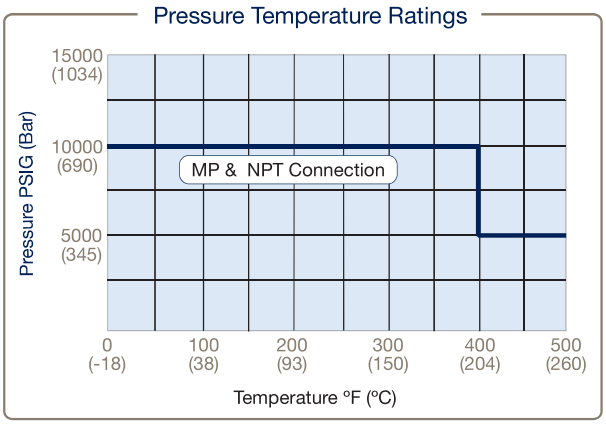
3 Way Subsea Series: 3/8" (8.33mm) Orifice

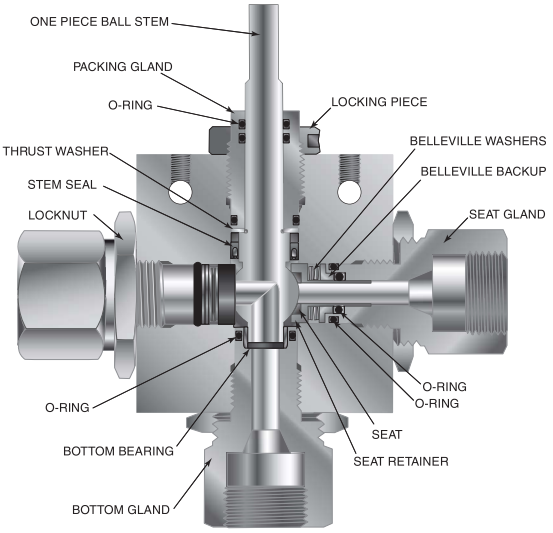
Pressures to 10,000 psi (690 bar)

Connection Type	MAWP at Room Temperature	Minimum Orifice Inches (mm)	Rated C_V
SF562CX20 (9/16" MP)	10,000 psi (690 bar)	0.312 (7.92)	2.0
SF750CX20 (3/4" MP)	10,000 psi (690 bar)	0.326 (8.28)	2.1
1/4" FNPT	10,000 psi (690 bar)	0.326 (8.28)	2.1
3/8" FNPT	10,000 psi (690 bar)	0.326 (8.28)	2.1
1/2" FNPT	10,000 psi (690 bar)	0.326 (8.28)	2.1



3 Way 3/8" 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.



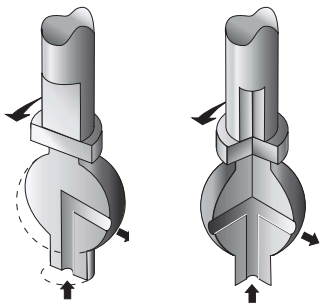
To ensure proper fit use Parker Autoclave tubing

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

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)

Flow Configuration



3-Way Switching
180 Turn

3-Way Diverting
90° Turn

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, 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: S3B6S10M9*

Example Part Number:	S3B	6	S	10	M9	-	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 Ball Valve
S3BD	3 Way Subsea Diverter

B - Ball Orifice Diameter	
6	3/8" (9.52mm)

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	MAWO @ RT	Seat Gland Hex
M9	SF562CX20 (9/16" MP)	10,000 psi	1.38"
M12	SF750CX20 (3/4" MP)	10,000 psi	1.38"
P4	1/4" NPT	10,000 psi	1.38"
P6	3/8" NPT	10,000 psi	1.38"
P8	1/2" NPT	10,000 psi	1.38"

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

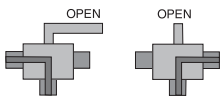
Basic Repair Kits:

When ordering a basic repair kit add an "**R**" prefix before product model codes A, B, and C (see above).
Example: **R**S3B6S

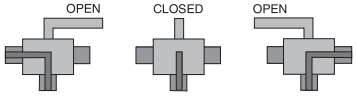
When ordering with "F-Options" add an "**R**" prefix before model codes A, B, C and F (see above).
Example: **R**S3B6S-EPR

Contact your Parker Autoclave Engineers Sales Representative with any questions.

Diverter Flow Control:



*3-Way Diverter Valve
90° Turn (3BD3 Series)



3-Way Switching Valve
180° Turn (3B3 Series)

*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:

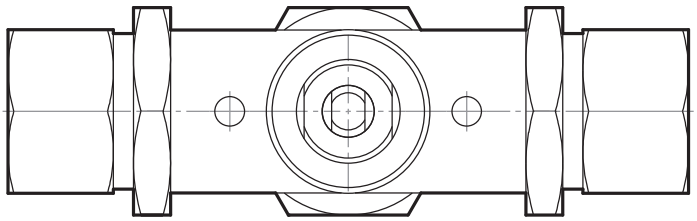
Item #	Description	Material
1	Stem Seal w/ Spring	PTFE w/ Graphite
2	Belleville Washer	302 SS
3	O-Ring	Buna-N
4	O-Ring	Buna-N
5	O-Ring	Buna-N
6	O-Ring	Buna-N
7	Thrust Washer	AMPCO 45
8	Seat Retainer	Nitronic 50 HS
9	Belleville Washer Backup	316 CW SS
10	Locking Piece	316 SS
11	Locknut	316 SS
12	Stem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

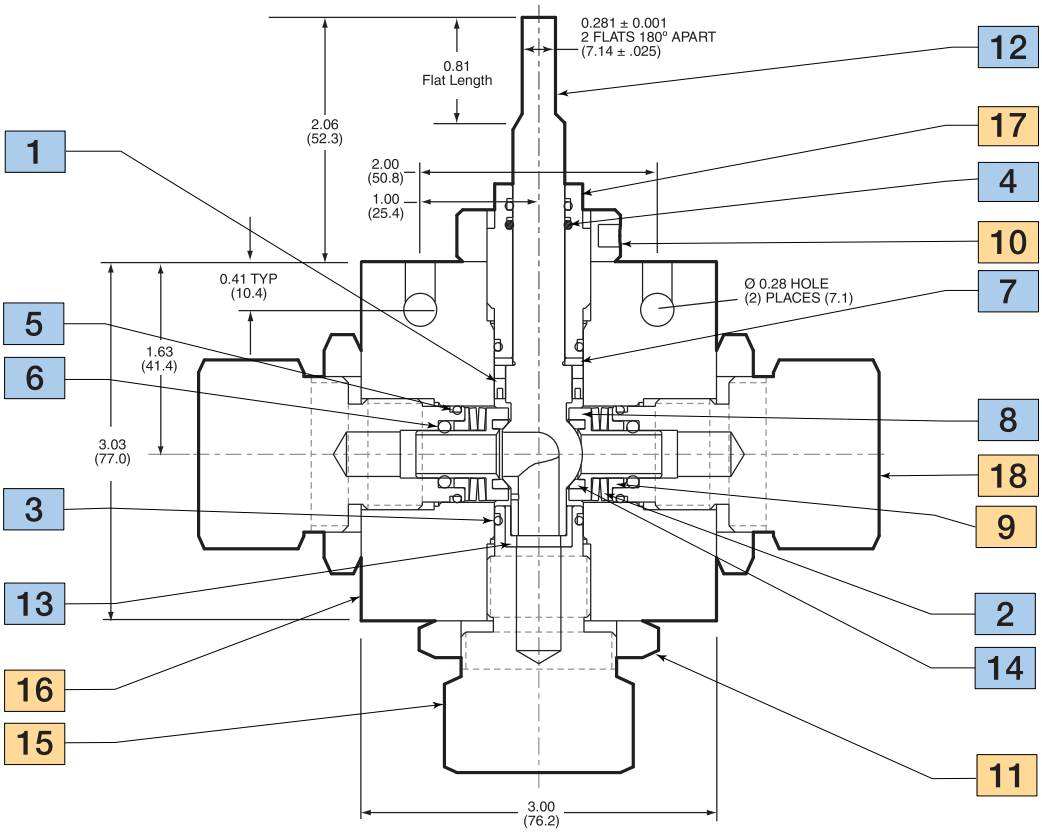
Typical spare parts found in Repair Kits

Please reference drawing on Page 23

3/8" 3 Way Subsea Ball Valve Dimensions:

3/8" 3 Way Subsea Ball Valve





NOTE:
1. MAWP (See Table)
2. Maximum Sea Depth 11,500 FT (3505 meters)
3. Maximum External Pressure 5,000 psi (345 bar)

Dimensions for reference only and subject to change.

NOTE:
Valve Stem has no stop supplied as standard.
Stem will rotate 360° unless used with Subsea Actuator or Handle/Stop is ordered.