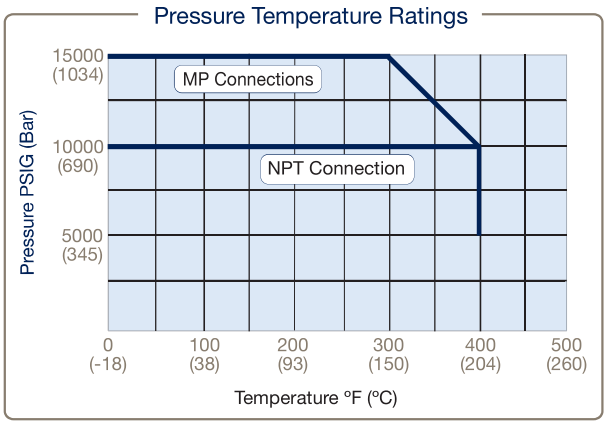
2 Way Subsea Series: 3/4" (19mm) Orifice

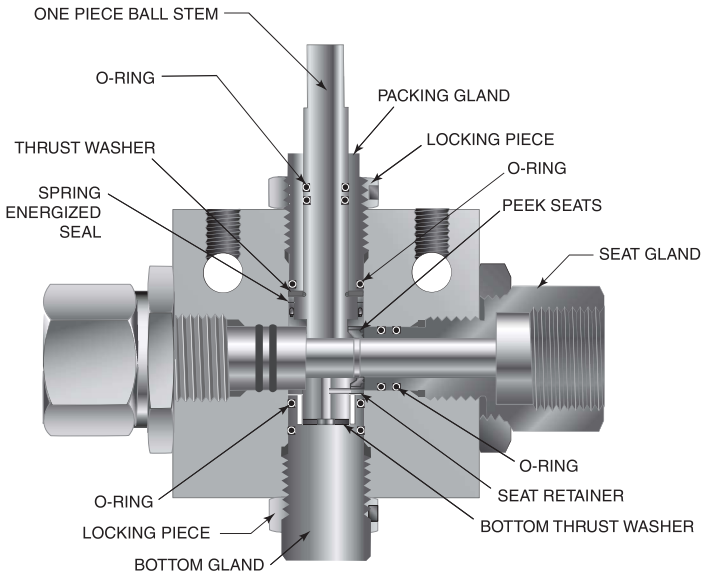
Pressures to 15,000 psi (1034 bar)

Connection Type	MAWP at Room Temperature	Minimum Orifice Inches (mm)	Rated C_V
SF1000CX10 (1" MP)	15,000 psi (1034 bar)	0.688 (17.48)	21
3/4" FNPT	10,000 psi (690 bar)	0.750 (19.05)	24
1" FNPT	10,000 psi (690 bar)	0.750 (19.05)	24



2 Way 3/4" Bore Subsea Ball Valve

Pressure Ratings are determined by the end connections chosen, see chart.
Maximum Temperature rating is determined by the o-ring material.
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)

Ordering Guide:

For complete information on available end connections, see previous page. 2-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: S2B12S15M12*

Example Part Number:	S2B	12	S	15	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	
S2B	Subsea 2 Way Ball Valve

B - Ball Orifice Diameter	
12	3/4" (19.05mm)

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
15	15,000 psi

E - End Connection			
	Connection	MAWP @ RT	Seat Gland Hex
M16	SF1000CX20 (1" MP)	15,000 psi	1.88"
P12	3/4" NPT	10,000 psi	1.88"
P16	1" NPT	10,000 psi	1.88"

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**S2B12S

When ordering with "F-Options" add an "**R**" prefix before model codes A, B, C and F (see above). Example: **R**S2B12S-EPR

Contact your Parker Autoclave Engineers Sales Representative with any questions.

Material of Construction:

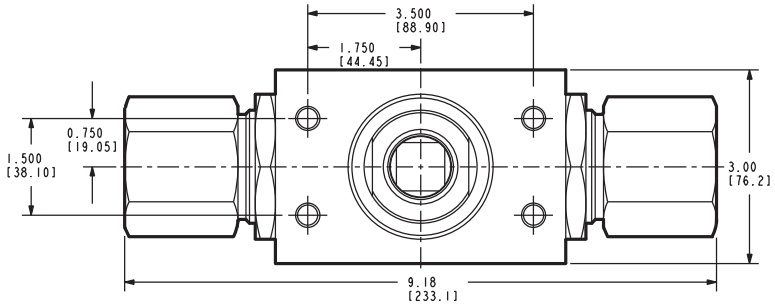
Item #	Description	Material
1	Stem Seal	Graphite
2	O-Ring	Buna-N
3	O-Ring	Buna-N
4	Retaining Ring	316 SS
5	Retaining Ring	316 SS
6	Locknut	316 SS
7	Seat	30% Carbon Filled Peek
8	Seat Retainer	Super Duplex Zeron 100
9	Thrust Washer	AMPCO 45
10	Top Bearing	316 SS
11	Locking Piece	316 SS
12	O-Ring Backup	AMPCO 45
13	Thrust Washer	AMPCO 45
14	Bottom Bearing	AMPCO 45
15	Stem	316 CW SS
16	O-Ring Backup	AMPCO 45
17	Seat Gland	316 CW SS
18	Bottom Gland	316 SS
19	Packing Gland	316 SS
20	Body	316 CW SS

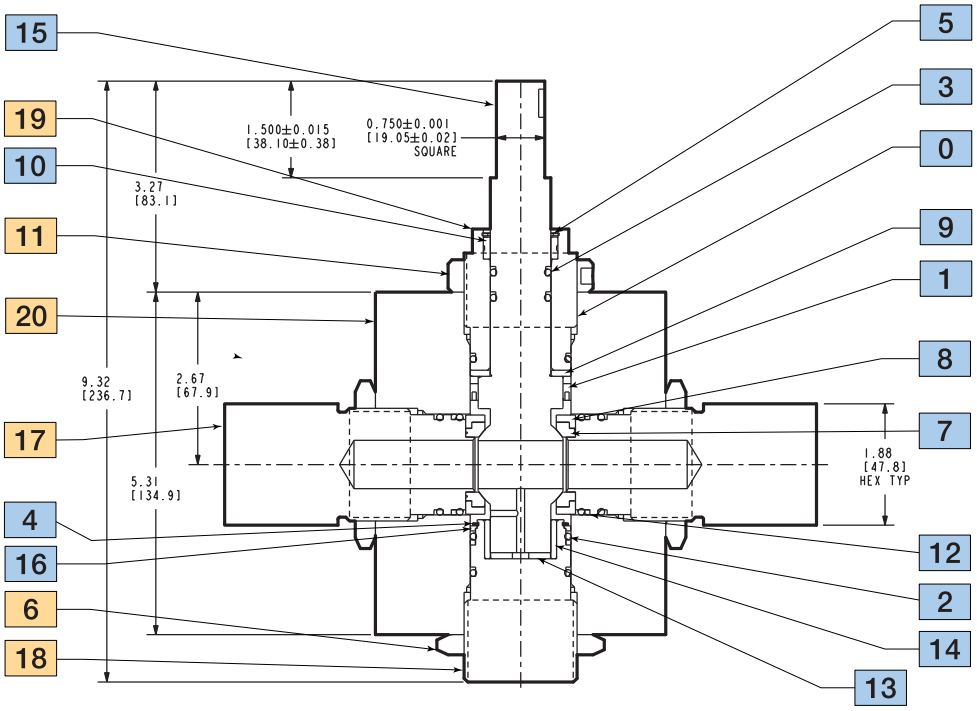
Typical spare parts found in Repair Kits

Please reference drawing on Page 14

3/4" 2 Way Subsea Ball Valve Dimensions:

3/4" 2 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 (379 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.