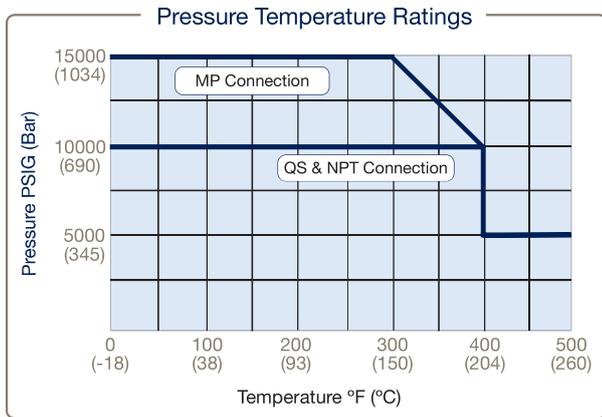


# 2 Way Subsea Series: 1/2" (12.7mm) Orifice

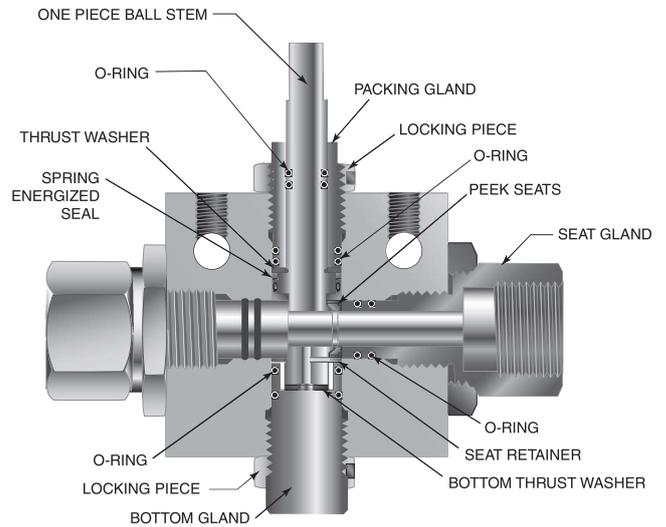
Pressures to 15,000 psi (1034 bar)

Connection Type	MAWP at Room Temperature	Minimum Orifice Inches (mm)	Rated C <sub>v</sub>
SF750CX20 (3/4" MP)	15,000 psi (1034 bar)	0.500 (12.70)	10.2
SF1000CX20 (1" MP)	15,000 psi (1034 bar)	0.500 (12.70)	10.2
1/2" FNPT	15,000 psi (1034 bar)	0.500 (12.70)	10.2
3/4" FNPT	10,000 psi (690 bar)	0.500 (12.70)	10.2
1" FNPT	10,000 psi (690 bar)	0.500 (12.70)	10.2



**2 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 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:

<b>V</b>	FKM material: 0° to 400°F (-18° to 204°C)
<b>EPR</b>	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: S2B8S15M16*

Example Part Number:	<b>S2B</b>	<b>8</b>	<b>S</b>	<b>15</b>	<b>M16</b>	<b>-</b>	<b>XXX</b>
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	
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
15	15,000 psi

E - End Connection			
	Connection	MAWP @ RT	Seat Gland Hex
M12	SF750CX20 (3/4" MP)	15,000 psi	1.75"
M16	SF1000CX20 (1" MP)	15,000 psi	1.75"
P8	1/2" NPT	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: **RS2B8S**

When ordering with “F-Options” add an “**R**” prefix before model codes A, B, C and F (see above).  
Example: **RS2B8S-EPR**

Contact your Parker Autoclave Engineers Sales Representative with any questions.

## Material of Construction:

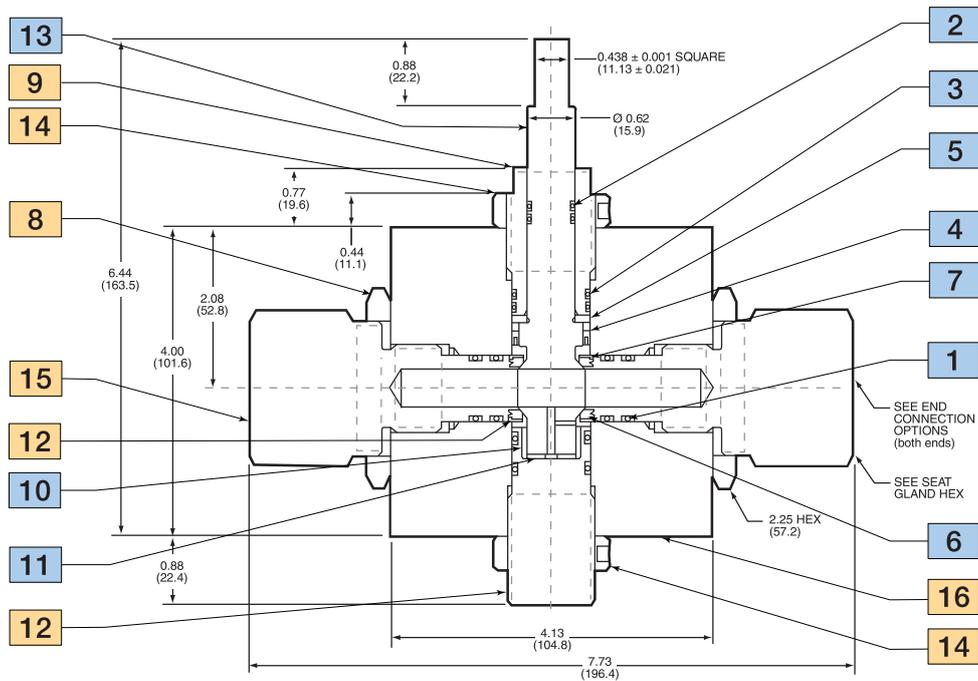
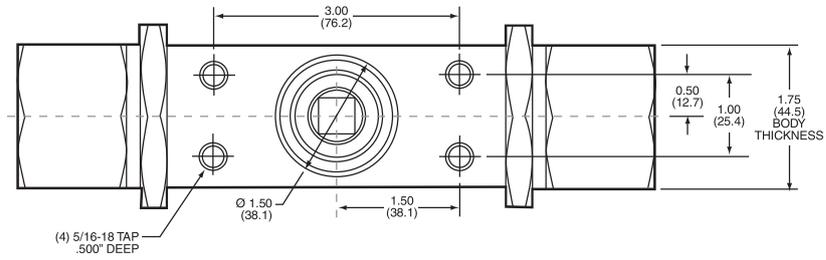
Item #	Description	Material
1	O-Ring	Buna-N
2	O-Ring	Buna-N
3	O-Ring	Buna-N
4	U-Cup Seal Assembly	Graphite/Carbon PTFE
5	Thrust Washer	AMPCO 45
6	Seat	316 CW SS
7	Seat Retainer	316 CW SS
8	Lock Nut	316 SS
9	Packing Gland	316 CW SS
10	Bottom Bearing	AMPCO 45
11	Thrust Washer	AMPCO 45
12	Bottom Gland	316 SS
13	Stem	316 CW SS
14	Locking Piece	316 SS
15	2 Way Seat Gland	316 CW SS
16	Body	316 CW SS

Typical spare parts found in Repair Kits

Please reference drawing on Page 11

# 1/2" 2 Way Subsea Ball Valve Dimensions:

## 1/2" 2 Way Subsea Ball Valve



**NOTE:**

- 1. MAWP (See Table)
  - 2. Maximum Sea Depth 11,500 FT (3505 meters)
  - 3. Maximum External Pressure 5,500 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.