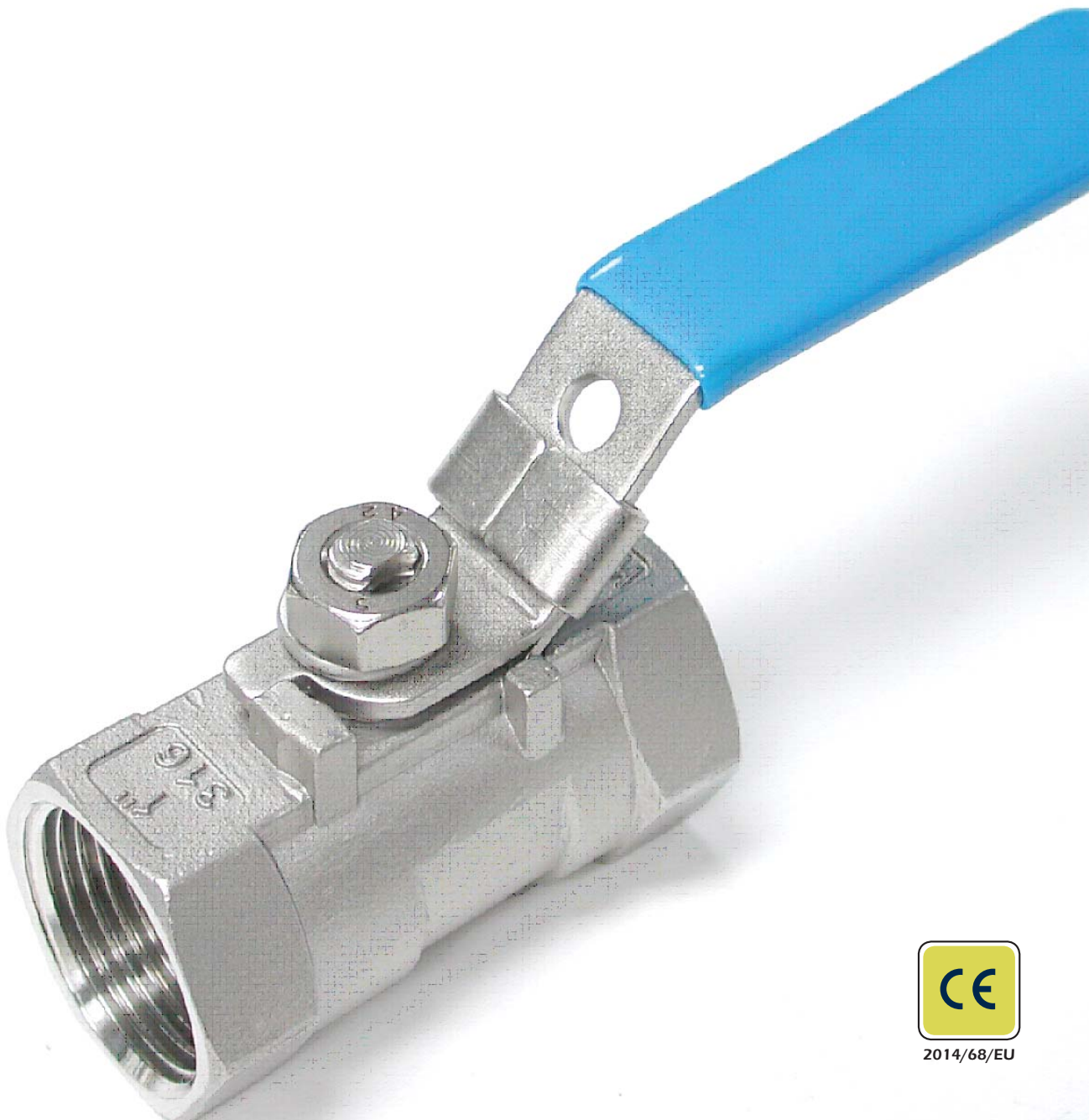


# Series 11 Standard 1-Piece

## Reduced Port Ball Valve

1/4" – 2" (DN8 - DN50)

1000 psi (PN64)



# Ball Valve Feature One Piece Design

PVS FLOW CONTROL is proud to introduce Series 11 one piece design ball valve. It features compactness, lightweight, as well as other special design features. The Series 11 ball valves can be used in many applications such as hydraulic, chemical, steam, oil/ gas, oxygen, and vacuum environments. To meet such diverse conditions, DI ERSTE offers the highest quality for our valves.

The original one-piece and retainer screw-in design gives the advantage of avoid using excess body pieces. This design provides the extra body strength and minimizes the chances of leaking. The valve bodies are constructed by high quality investment cast materials with retraceable furnace number for future references.

Standard blowout-proof stem design is also implemented in Series 11 ball valve. Instead of insert the stem from the top, it is installed from inside of the valve to prevent accidental shoot out during unexpected events such as the presence of excess pressure inside the pipeline system. The stem is also equipped with thrust washer and stems packing to prevent the galling between metals, and further reduces torque and creates a secondary stem seal. The double D design of the stem head also offers the easiness to lever and handle mounting process.

There is a wide selection of spare parts to meet customer's satisfactions. The ball seat material can be selected from common PTFE to superior PEEK. The valve handles can also be chosen from various styles other than the original lever handle, such as oval handle and wing handle. More information is available upon request.

## CE marking

The whole series of ball valves are approved according to European Directive 2014/68/EU.

## One Piece Body Structure

The one piece body design decreases the possibility of leaking by using a uni-body structure. The unnecessary joint pieces are eliminated. The valve ball is set stationary by the screw-in retainer.

## Blowout-Proof Design

The stem is inserted from inside of the body instead of from the top. The shape of the stem is designed so that it has a protruded outer ring on the bottom side. This prevents stem shoot out caused by unexpected accident, such as excess pressure or fire in the bore. In the case of excess pressure, the protruded ring makes contact with the valve body, and the outward motion that forces the stem to shoot out is stopped. Thus, this design creates a safer valve using environment.

## Pressure Rating

1000 psi WOG

150 psi (10 bar) with saturated steam

## Temperature Range:

-20°F to 350°F (-28°C to 180°C) with PTFE/RPTFE

## End Connection:

Female thread connection

## Body Material:

ASTM CF8M, CF8, WCB

(DIN 1.4408, 1.4308, 1.0619)

## Size Range:

1/4"~2" (DN8~DN50)

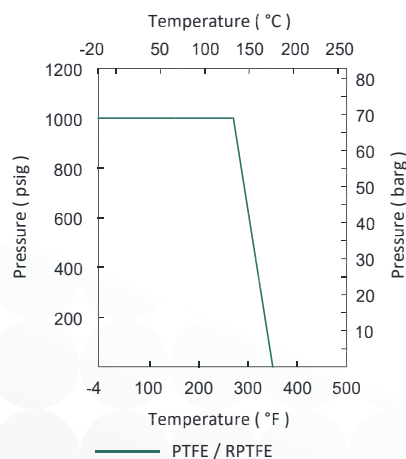
## Standards and Specifications

Female Thread end-to-end length meets

NPT, DIN 259/2999, and BS21 regulations

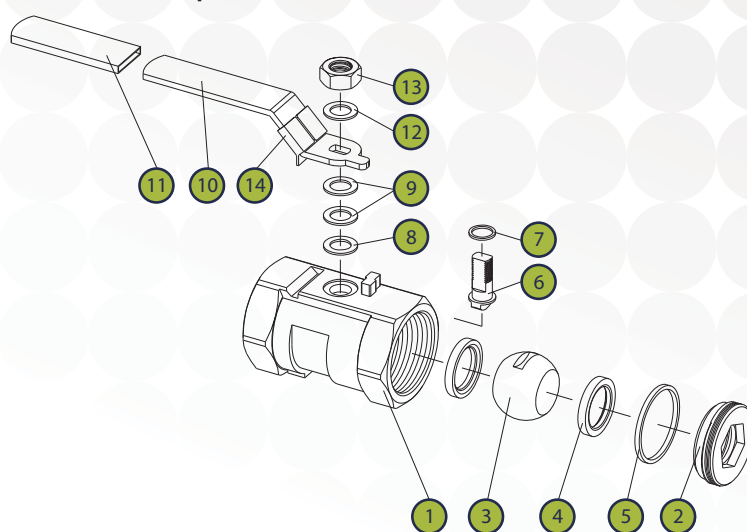
Valve body and end cap connections are high quality investment cast. Stainless steel can be special processed with anneal, and carbon steel can be normalized, both are upon request. Other valve components, such as valve body, end cap, and stem, are produced to follow the ASME and other international regulations. All the valves are factory tested to meet API and MSS standards to ensure the quality of the valves.

## Valve Body Rating with Seat Material Plot:



This table express Seat material resistance as declared by the original manufacturers. The values are to be considered with other parameters such as size, seat design and temperature limitations as governed by relevant standards such as ASME B16.34 or EN-12516.

Series 11 1pc Ball Valve

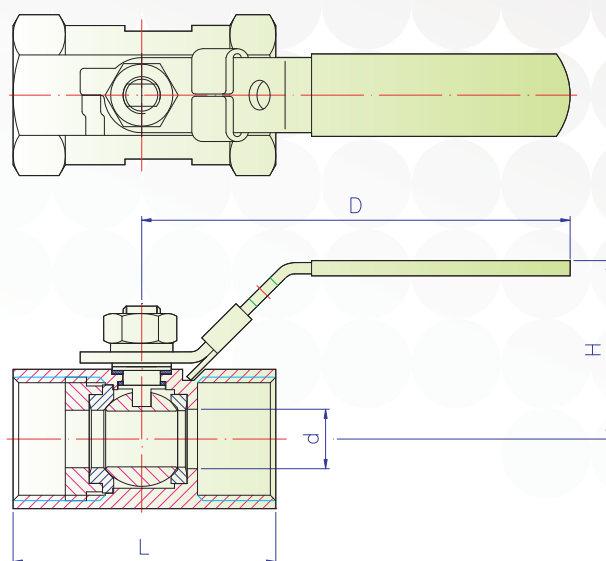


NO	PART NAME	MATERIAL
1	BODY	1.4408/ 1.4308/ 1.0619
2	END CAP	1.4408/ 1.4308/ 1.0619
3	SOLID BALL	SS 316
4	BALL SEAT	R.PTFE
5	BODY SEAL	MG1241
6	STEM	SS316
7	THRUST WASHER	50%SS+50%PTFE

NO	PART NAME	MATERIAL
8	STEM SEAL	PTFE
9	STEM PACKING	PTFE
10	GLAND	SS304
11	BELLEVILLE SPRING	SUS301
12	TRAVEL STOPPER	SS304
13	LOCK SADDLE WASHER	SS304
14	STEM NUT	SS304

**Dimensions** inch/mm

SIZE Inch DN	d	L	D	H	Weight (kg)	Cv Kv
1/4" 8	0.19 5	1.53 39	2.76 70	1.04 26.5	0.07	2.5 2.14
3/8" 10	0.27 7	1.73 44	3.15 80	1.14 29	0.12	4.5 3.85
1/2" 15	0.36 9.2	2.22 56.5	3.62 92	1.61 41	0.2	7 6
3/4" 20	0.49 12.5	2.35 59.7	3.62 92	1.77 45	0.29	9 7.7
1" 25	0.63 16	2.79 71	5.44 110	2.16 55	0.43	16 13.6
1 1/4" 40	0.78 20	3.07 78	4.09 104	2.07 52.7	0.71	24 20.51
1 1/2" 50	0.96 24.5	3.26 83	5.43 138	2.79 71	0.84	37 31.63
2" 50	1.26 32	3.94 100	5.43 138	3.05 77.4	1.35	68 58.12



## Optional Accessories

### Handle Selection

There are several choices for the valve handle besides the original lever. PVS FLOW CONTROL offers wing handles and oval handles to accompany Series 11 ball valves. In the situation where space is a problem, the wing handle provides a compact size for the valve system, whereas oval handles can avoid accidental opening and closing of the handle caused by unexpected event. The oval handles also slows down the valve close speed, which decrease the chances of water hammer on liquid

### Locking Devices

The valve handle come with the locking device originally. By lifting the lock, the valve handle is free to move. PVS FLOW CONTROL also offers extra key lock, in which the original locking devices will be kept in locking/unlocking position securely to prevent unexpected accident.



Phone :86-21-52762825  
 Email :sales@pvsflowcontrol.com  
 Address :Floor2, Building D1,  
 No.578, Lane1588,Zhuguang RD,  
 Qingpu District,Shanghai,201702

PVS FLOW CONTROL Co.,Ltd.  
<http://www.pvsflowcontrol.com>

Due to continuous development of the products, PVS FLOW CONTROL reserves the right to alter the dimension and information contained in the document as required. For specific performance data and proper material selection, please consult with your PVS FLOW CONTROL representatives