



**Series 1F**

# Mounting Pad Flanged

**Reduced Port Ball Valves  
with Flanged End**

1/4" – 4" (DN8 – DN100)  
ANSI Class 150



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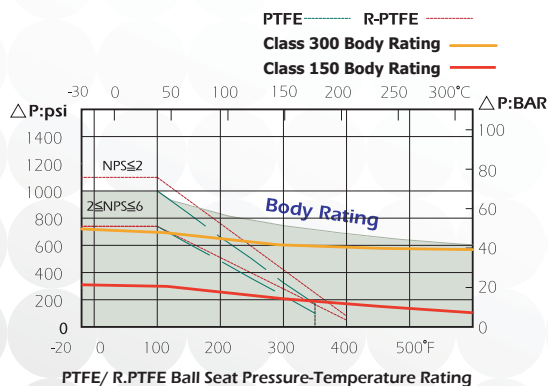
# Ball Valve Feature Mounting Pad

DIE ERSTE's Series 1F ball valves offer the solution to your flow control applications. Our specially designed valves are manufactured to meet customer's requirement. The Series 1F ball valves are equipped with twin ISO 5211 mounting pad to easy valve automation products installation. 1F series are accompanied with flanged end connection, which meets all major standards. It can also be made according to any customized dimension.

Series 1F valve body has various design features to sustain in tough conditions. The one piece design eliminates leakage by minimizing the number of potential joint faces on the valve body. The fire-safe design is applied on the Series 1F valves upon request. In the case of fire, the primary PTFE/RPTFE ball seat will be destroyed; however, the ball then makes contact with the metal seat. As the result, a new seal is formed to replace the original PTFE seal.

The standard blow-safe stem design offers a safer working environment in the case of excess pressure inside the pipeline. With blow-safe design, the stem will not shoot out of the valve body and cause extra damages. The design itself is inserting the stem from inside the valve body, instead of insert the stem from the top. The live-loaded, self-adjusting stem assembly with packings automatically adjusts with material changes of the valve caused by thermal effects, such as contraction and expansion, and normal wear. The anti-static steam design is also available upon request. The ball seat material has several options to choose from, ranging from common PTFE to superior PEEK and DELRIN, and with low operating torque for the ease of use by both manual and automation.

## Valve Body Rating with Seat Material Plot:



## CE marking 0035

The whole series of ball valves are approved according to European Directive 97/23/EC.

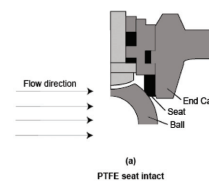
### Blowout-Proof Design

The stem is installed from the bottom-entry direction instead of top-bottom. This prevents stem to shoot out during unexpected accident, such as excess pressure inside the pipeline system. This further provides a safer valve using environment. This design is widely used in all DIE ERSTE's ball valves.

### Fire-Safe Design

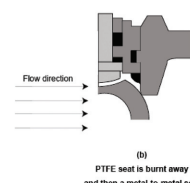
The fire-safe design provides a secondary stem sealing in the case of fire. Usually, the original PTFE/RPTFE ball seat is destroyed in fire, but this particular design moves the ball to be in contact with the metal seat. Thus, a new seal is formed even though the soft resilient PTFE seat has gone, and further creates a protection and prevents leakage.

#### Before



(a) PTFE seat intact

#### After



(b) PTFE seat is burnt away and then a metal-to-metal seal

### Pressure Rating

ANSI Class 150  
150 PSI for saturated steam

### Temperature Range:

-20°F to 400°F (-28°C to 204°C) with PTFE/RPTFE

### End Connection:

Flanged end connection with different types

### Body Material:

ASTM CF8M, CF8, WCB  
(DIN 1.4408, 1.4308, 1.0619)

### Size Range:

1/4" ~ 4"

### Standards and Specifications

Flanged end connection face to face dimension according to

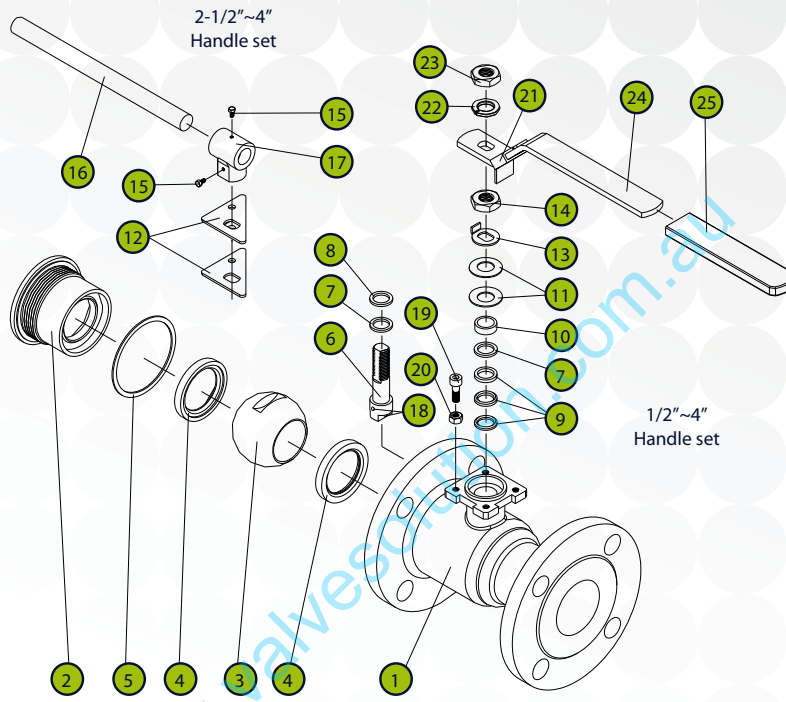
DIN 3202 F1

Flanged end face dimension according to

DIN 2633

Valve body and flange connections are high quality investment cast with one body construction design. 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.

## Series 1F 1pc Flanged Reduced Port Ball Valve



NO	PART NAME	MATERIAL
1	BODY	CF8M/ CF8/ WCB
2	END CAP	CF8M/ CF8/ WCB
3	SOLID BALL	CF8M
4	BALL SEAT	R.PTFE
5	BODY SEAL	MG1241
6	STEM	SS316
7	THRUST WASHER	50%SS+50%PTFE
8	STEM SEAL	PTFE
9	STEM PACKING	PTFE
10	GLAND	SS304
11	BELLEVILLE SPRING	SUS301
12	TRAVEL STOPPER	SS304
13	LOCK SADDLE WASHER	SS304

NO	PART NAME	MATERIAL
14	STEM NUT	SS304
15	SADDLE BOLT	SS304
16	HANDLE	SS304
17	HANDLE ADAPTER	SS304
18	ANTI-STATIC DEVICE	SS304
19	STOP BOLT	SS304
20	STOP NUT	SS304
21	LOCKING DEVICE	SS304
22	SPRING WASHER	SS304
23	HANDLE NUT	SS304
24	HANDLE	SS304
25	HANDLE SLEEVE	VINYL

