

Series IF Mounting Pad Flanged

Reduced Port Ball Valves with Flanged End

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



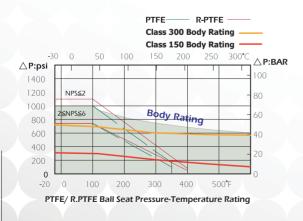
Ball Valve Feature Mounting Pad

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.



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

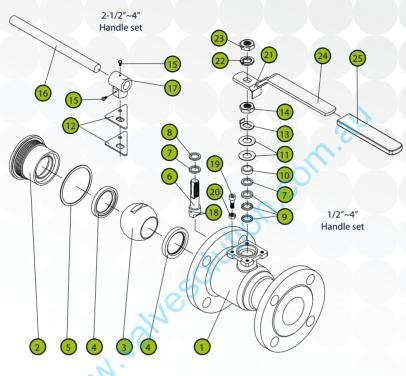
Flanged end connection face to face dimension according to DIN 3202 F1 $\,$

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

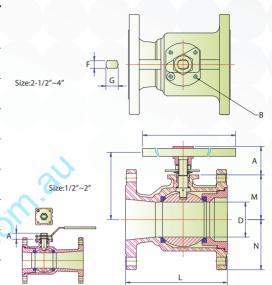


NO	PART NAME	MATERIAL				
1	BODY	CF8M/ CF8/ WCB				
2	END CAP	CF8M/ CF8/ WCB				
3	SOLID BALL	CF8M				
4	BALL SEAT	R.PTFE				
5	BODY SEAL	MG1241				
6	STEM	SS316				
7	THRUST WASHER	50%SS+50%PTFE				
8	STEM SEAL	PTFE				
9	STEM PACKING	PTFE				
10	GLAND	SS304				
11	BELLEVILLE SPRING	SUS301				
12	TRAVEL 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 SS304 SS304				
22	SPRING WASHER					
23	HANDLE NUT					
24	HANDLE	SS304				
25	HANDLE SLEEVE	VINYL				

Dimensions inch/mm

SIZE Inch DN	D	L	Н	E	F	G	А	В	М	N	ISO 5211
1/2"	0.49 12.7	4.25 108	2.95 75	5.9 150	0.19	0.31	0.57 14.5	M5	1.04 26.5	1.75 44.5	F03
3/4" 20	0.59 15	4.64 118	3.22 82	5.9 150	0.24 6.3	0.37 9.5	0.63	M5	1.53 39	1.94 49.3	F04
1" 25	0.79 20	5 127	3.38 86	5.9 150	0.24 6.3	0.37 9.5	0.63 16	M5	1.67 42.5	2.12 54	F04
1 ½" 40	1.26 32	6.6 165	4.09 104	7.08 180	0.31	0.43 11	0.83 21	M6	2.2 56.35	2.5 63.5	F05
2" 50	1.5 38	7 178	4.64 118	7.08 180	0.31	0.43 11	0.83 21	M6	2.62 66.5	3 7 6.25	F05
2½" 65	2 50.8	7.48 190	5.31 135	15.74 400	0.55 14	0.83 21	2.44 62	M8	2.86 72.75	3.5 89	F07
3″ 80	2.56 65	8 203	6.14 156	15.74 400	0.55 14	0.83 21	2.44 62	M8	3.66 93	3.75 95.25	F07
4" 100	3.15 80	9 229	6.61 168	15.74 400	0.55 14	0.83 21	2.44 62	M8	4.21 107	4.52 115	F07



Optional Accessories

Flange Options

DIE ERSTE offers various flange type to accompany different uses. The flange structures provided are slip-on, lap-join, welding neck, blind, screwedend, and socket-welding flanges. Pressure rating and sizes are generally based on the valve body itself. For any special requirements, please consult with DIE ERSTE representatives for further information.

Actuators

With the mounting pad design, Series 1F ball valves can combine with every DIE ERSTE automatic control products with brackets. Currently, DIE ERSTE offers VT series pneumatic actuator and Jexme electric actuator to accompany Series 1F ball valves.

How to order

	VALVE TYPE	PORT	BODY MATERIAL	SEAT	TRIM	TYPE OF CONNECTION	Pressure Rating	SPECIAL REQUEST	SIZE OF CONNECTION	OTHER
1	Α	В	С	D	Е	F	G	Н	I	J