

# Series FSB 26

## Mounting Pad 2-Piece

### Full Port Ball Valve

1/4" – 2" (DN8 – DN50)  
6000 psi (Class 2500)



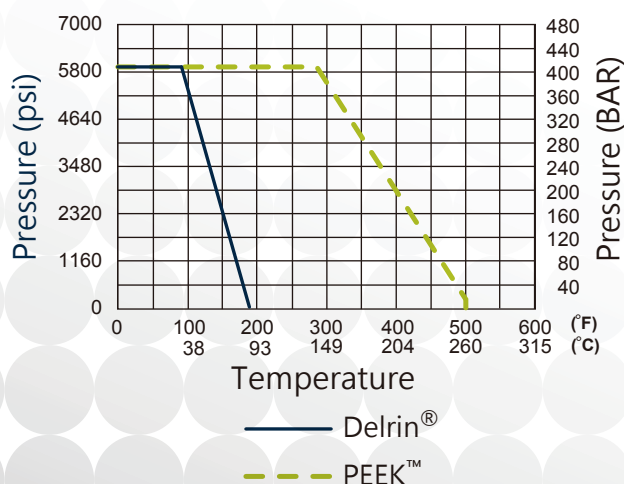
# Heavier, Thicker, and Stronger!

DIE ERSTE's Series FSB 26 ball valves offers rugged and strong flow solution for hydraulic, chemical, steam, and oil/gas applications. Series FSB 26 is fire-safe tested for high pressure up to 6000psi (Class 2500). It is equipped with fire-safe design package and mounting pad design. Customers are often amazed by the extra weight of Series 291 Fire-Safe Ball Valve, comparing with other conventional 2-pc ball valves. To maintain smooth valve operation and leakage-free condition, Series FSB 26 is constructed with thick body wall and ultra-strong parts to against high pressure usage.

The fire-safe design package includes: fire-safe lip, anti-static device, and sealing parts. The fire-safe lip is machined perfectly to fit the valve ball, so that in the case of fire and the ball seat has been decomposed, the fire-safe lip come into contact with the ball. Eventually, a new metal-to-metal seal is formed. The new seal ensure the continuous valve operation after the event of fire. Anti-static device is used to discharge electric charges built up by valve operation. With small metal ball and spring inserted on the stem, the charges are grounded and prevent sparks caused electric charges. In Series FSB 26, instead of using PTFE for the sealing elements, graphite is used to prevent high heat condition. For other sealing material and special applications, please consult with DIE ERSTE representatives.

Series FSB 26 ball valves are also equipped with standard blowout-proof stem design gives a safer valve use environment when undergo unexpected events. The stem is inserted from inside of the bore, and locked from above with gland nut, to prevent stem shooting out during accidents. Also, the double-D shape stem design provides the easiness of lever mounting. The self-adjusting stem and packing assembly automatically adjusts with valve changes caused by thermal effects.

**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.

### Direct Mounting Pad

The Series FSB 26 ball valves are constructed with twin ISO 5211-complied mounting pads, which provide possibilities of actuators.

### 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, and further provides a safer valve using environment. This design is widely used in DIE ERSTE's ball valves.

### Pressure Rating

6000 psi (Class 2500) WOG

150 psi (10 bar) with saturated steam

### Temperature Range

• -20°F to 176°F (-28°C to 80°C) with DELRIN® seat

• -20°F to 500°F (-28°C to 260°C) with PEEK™ seat

### End Connection

Female pipe thread that meets NPT, DIN 259/2999, and BS21 regulations. For but-weld, socket-weld, and other end connection options, please contact with our sales representatives

### 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

Valve body and end cap connections are high quality investment cast. Both stainless steel material and carbon steel are solution annealed and normalized to ensure the highest quality. Body and end cap are designed according to ASME B16.34 regulation. Valve stems are blow-out proof for maximum safety, and meet ASME/ANSI B16.34 specifications. All valves are factory tested to API 598 and MSS SP-72. API 607 Fire-Safe Test have been certified and approved.

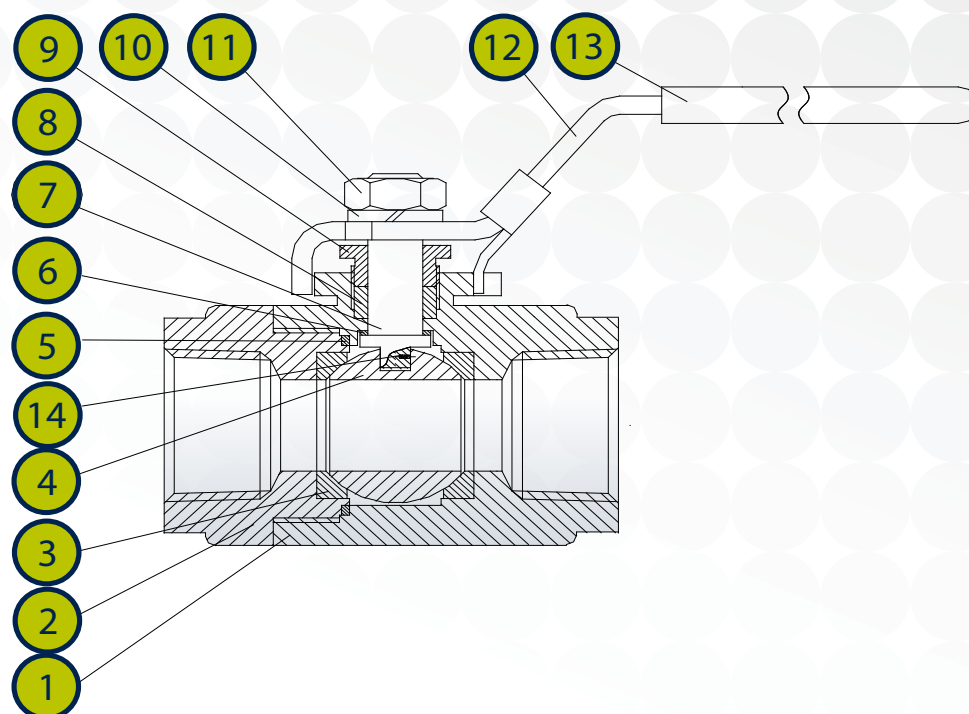
### Certifications of Series FSB 26

API 607 4th Edition  
Certified



CRN  
REGISTERED 

## FSB 26 Fire-Safe 2pc Ball Valve

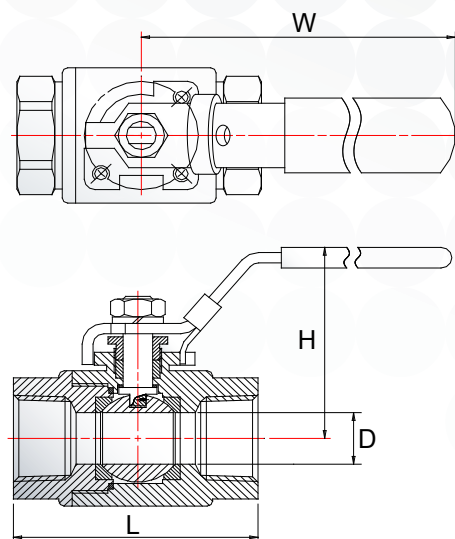


NO	PART NAME	MATERIAL
1	BODY	CF8M / WCB
2	END CAP	CF8M / WCB
3	BALL SEAT	Delrin® PEEK™ (optional)
4	SOLID BALL	CF8M
5	THRUST WASHER	GRAPHITE
6	BODY SEAL	GRAPHITE
7	STEM	SS 316

NO	PART NAME	MATERIAL
8	STEM PACKING	GRAPHITE
9	GLAND NUT	SS 304
10	SPRING WASHER	SS 304
11	NUT	SS 304
12	HANDLE	SS 304
13	HANDLE SLEEVE	VINYL

**Dimensions**    inch/mm

SIZE Inch DN	d	L	H	W	ISO 5211
1/4"	0.25	3.00	1.92	5.00	F03
8	6.4	76.2	48.8	127	
3/8"	0.5	4.00	1.92	5.00	F03
10	12.7	101.6	48.8	127	
1/2"	0.5	4.00	1.92	5.00	F03
15	12.7	101.6	48.8	127	
3/4"	0.75	4.25	2.56	5.83	F04
20	19.1	108.0	65.0	148	
1"	1	4.5	3.45	7.0	F05
25	25.4	114.3	87.6	178	
1 1/2"	1.5	5.25	4.13	9.92	F07
40	38.1	133.4	104.9	252.0	
1 1/2"	1.5	5.25	4.13	9.92	F07
40	38.1	133.4	104.9	252.0	
2"	1.5	6.25	4.13	9.92	F07
50	38.1	158.8	104.9	252.0	



## Optional Accessories

### Automation Products

Series FSB 26 is equipped with mounting pad for actuator and automation purposes. Users are able to install actuator with appropriate size of bracket and spindle. Currently, DIE ERSTE offers VT series pneumatic actuator and JEXME electric actuator to accompany Series FSB 26 fire-safe ball valves.

### Locking Devices

The valve handle come with the locking device originally. By lifting the lock the valve handle is free to move; when the lock is dropped and fitted in the opening on the neck section, DIE ERSTE also offers extra key lock, in which the original locking devices will be kept in locking/unlocking position securely to prevent unexpected accident.

### Material Selections

DIE ERSTE offers several material options for ball seat and sealing parts. The standard ball seat is made of DELRIN, and PTFE is used for sealing parts. For fire-safe purposes, DELRIN or PEEK ball seat and graphite seals are used. For high pressure or high temperature applications, users should consult with DIE ERSTE representatives for appropriate material of the sealing parts to avoid future dangers.



### How to order

VALVE TYPE	PORT	BODY MATERIAL	SEAT	TRIM	TYPE OF CONNECTION	PRESSURE RATING	SPECIAL REQUEST	SIZE OF CONNECTION	OTHERS
A	B	C	D	E	F	G	H	I	J



Taiwan  
5F-1, No.936,  
Sec. 4, Wen-Sin Road  
Taichung City, 406, Taiwan  
T +886(4)2231 0059  
F +886(4)2236 0236

Shanghai  
No.8, Lane 1  
Xin-Xiao Road  
Shanghai, 201612, China  
T +86(21)5777 3810  
F +86(21)5777 3919

**DIE ERSTE INDUSTRY CO., LTD.**  
www.die-erste.com | sales@die-erste.com

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**CM-112/FSB 26**

Due to continuous development of the products, DIE ERSTE 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 DIE ERSTE representatives