

Add:Bali Village Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province, China.

High-Performance Dual-Flow Solenoid Valve for Fuel Dispensers



MSF-20AA

The 3/4 Inch Dual-Flow Solenoid Valve is designed for fuel dispensers, featuring a durable brass body and advanced built-in parallel solenoid pilot valve. Engineered for precision and reliability, this valve ensures stable operation under harsh conditions, including temperatures as low as -40° C. Ideal for controlling gasoline, diesel, and kerosene flow with adjustable dual-flow design to meet diverse fueling needs.

Technical Specifications:

Working Medium: Gasoline, Diesel, Kerosene
 Operating Pressure: 0.035 MPa ~ 0.35 MPa
 Flow Rate: 3 ~ 50 L/min
 Working Voltage: AC 220V, AC110V, DC24V, DC12V for Option
 Nominal Diameter: DN20 (3/4 inch)

Ordering Specifications:

Product #	Detailed Specifications
MSF-20AA	Dual flanges, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage AC220V
MSF-20AB	Dual flanges, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage AC110V
MSF-20AC	Dual flanges, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage DC24V
MSF-20AD	Dual flanges, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage DC12V
MSF-20AF	Dual flanges, center distance 65 mm, inlet 2-Ø8.5 with O-ring, outlet 2-M8 with O-rings, voltage AC220V
MSF-20AG	Dual flanges, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage AC220V, with aluminum tube connector (M20×1.5)
MSF-20AH	Dual flanges, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage AC110V, with aluminum tube connector (M20×1.5)
MSF-20BA	Both ends with external / male thread M33×1.5, inner bore/inner diameter of Ø22.5 mm, voltage AC220V
MSF-20BB	Both ends with external / male thread M33×1.5, inner bore/inner diameter of Ø22.5 mm, voltage AC110V
MSF-20BC	Both ends with external / male thread M33×1.5, inner bore/inner diameter of Ø22.5 mm, voltage DC24V
MSF-20BD	Both ends with external/male thread M33×1.5, inner bore/inner diameter of Ø22.5 mm, voltage DC12V
MSF-20BE	Both ends with external /male 3/4 inch NPT/BSPT threads, voltage AC220V
MSF-20CA	Dual flanges, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage AC220V
MSF-20CB	Dual flanges, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage AC110V
MSF-20CC	Dual flanges, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage DC24V
MSF-20CD	Dual flanges, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Ø8.5 with O-ring, voltage DC12V
MSF-20CE	Dual flanges, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Ø8 with O-ring, voltage AC220V
MSF-20DA	Both ends with internal /female 3/4 inch NPT/BSPP threads, voltage AC220V
MSF-20EA	Dual flanges, center distance 57 mm, inlet 2- Ø8.5 with O-ring, outlet 2-M8 with O-ring, voltage AC220V
MSF-20EB	Dual flanges, center distance 57 mm, inlet 2-Ø8.5 with O-ring, outlet 2-M8 with O-ring, voltage DC24V
MSF-20EC	Dual flanges, center distance 57 mm, inlet 2-Ø8 with O-ring, outlet 2-M8 with O-ring, voltage AC220V

Note: Center distance = distance between centers of two bolt holes on each flange face. All items are customizable. For the solenoid valves listed above, if a specific power cable length is required, please indicate it in the order; otherwise, the default length is 1.6 meters.



MSF-20BA



MSF-20DA



DSF-20AA

MSF-20-XX Series of Dual-Flow Solenoid Valves for Fuel Dispenser (DN20 mm / 3/4 inch)

HB Equipment shall be used in compliance with applicable country, province and local laws and regulations. Products selection shall be based on physical specifications and limitations and compatibility with the environment. **101**

Key Features:

Dual-Flow Design: Internal parallel-type pilot solenoid valve ensures reliable switching between low and high flow, suitable for precise control at different fuel dispensing stages.

Imported Rubber Diaphragm: Main valve diaphragm made of specially imported rubber. Strong resistance to corrosion and remains flexible at low temperatures as low as -40°C.

Advanced Magnetic Circuit Components: Constructed using special stainless magnetic materials that ensure rust-free performance and zero residual magnetism.

High-Quality Coil: Coil is wound with imported Class-F enameled wire, providing low temperature rise and excellent insulation for prolonged operation.

Adjustable Low Flow Rate: When the working pressure is between 0.3 and 0.4 MPa, the valve closes the main passage and maintains a small flow system of 3~3.5L/min. Customizable flow rates available on request.

MSF-25-XX Series of Dual-Flow Solenoid Valves for Fuel Dispenser (DN25 mm / 1 inch)



MSF-25BA

The 1 Inch Dual-Flow Solenoid Valve is designed for fuel dispensers, featuring a durable brass body and advanced built-in parallel solenoid pilot valve. Engineered for precision and reliability, this valve ensures stable operation under harsh conditions, including temperatures as low as -40° C. Ideal for controlling gasoline, diesel, and kerosene flow with adjustable dual-flow design to meet diverse fueling needs.

Technical Specifications:

Working Medium: Gasoline, Diesel, Kerosene

Operating Pressure: 0.035 MPa ~ 0.35 MPa

Flow Rate: 5 ~ 100 L/min

Working Voltage: AC 220V, AC110V, DC24V, DC12V for Option

Nominal Diameter: DN25 (1 inch)

Ordering Specifications:

Product #	Detailed Specifications
msf-25AA	Double-flange type, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage AC220V.
msf-25AB	Double-flange type, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage AC110V.
msf-25AC	Double-flange type, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage DC24V.
msf-25AD	Double-flange type, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage DC12V.
msf-25AE	Double-flange type, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-M8 with O-ring, voltage AC220V.
msf-25AF	Double-flange type, center distance 65 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage AC110V, with aluminum pipe connector (M20*1.5).
msf-25BA	Double external / male thread M33*1.5, inner diameter Φ25.5 mm, voltage AC220V.
msf-25BB	Double external / male thread M33*1.5, inner diameter Φ25.5, voltage AC110V.
msf-25BC	Double external / male thread M33*1.5, inner diameter Φ25.5, voltage DC24V.
msf-25BD	Double external / male thread M33*1.5, inner diameter Φ25.5, voltage DC12V.
msf-25BE	Double external / male thread BSPT 1 inch , voltage AC220V.
msf-25CA	Double-flange type, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage AC220V.
msf-25CB	Double-flange type, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage AC110V.
msf-25CC	Double-flange type, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage DC24V.
msf-25CD	Double-flange type, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-Φ8.5 with O-ring, voltage DC12V.
msf-25CE	Double-flange type, center distance 70 mm, inlet 2-M8 with O-ring, outlet 2-M8 with O-ring, voltage AC220V.
msf-25DA	Double internal / female thread, inlet & outlet threads RC1", voltage AC220V.
msf-25DB	Double internal / female thread, inlet & outlet threads ZG1" (BSPT1") , voltage AC220V.
msf-25DC	Double internal / female thread, inlet & outlet threads NPT", voltage AC220V.
msf-25DD	Double internal / female thread, inlet & outlet threads BSPP1", voltage AC220V with 1.6 meters cable.

Note: Center distance = distance between centers of two bolt holes on each flange face. All items are customizable. For the solenoid valves listed above, if a specific power cable length is required, please indicate it in the order; otherwise, the default length is 1.6 meters.

MSF-25-XX Series of Dual-Flow Solenoid Valves for Fuel Dispenser (DN25 mm / 1 inch)

HB Equipment shall be used in compliance with applicable country, province and local laws and regulations. 102
Products selection shall be based on physical specifications and limitations and compatibility with the environment.



msf-25AA (Aluminum body for option)



(DN25 Customized item)



msf-25DA

Key Features:

Dual-Flow Design: Internal parallel-type pilot solenoid valve ensures reliable switching between low and high flow, suitable for precise control at different fuel dispensing stages.

Imported Rubber Diaphragm: Main valve diaphragm made of specially imported rubber. Strong resistance to corrosion and remains flexible at low temperatures as low as -40°C.

Advanced Magnetic Circuit Components: Constructed using special stainless magnetic materials that ensure rust-free performance and zero residual magnetism.

High-Quality Coil: Coil is wound with imported Class-F enameled wire, providing low temperature rise and excellent insulation for prolonged operation.

Adjustable Low Flow Rate: When the working pressure is between 0.3 and 0.4 MPa, the valve closes the main passage and maintains a small flow system of 5~5.5L/min. Customizable flow rates available on request.

DSF-XXXX Series of Solenoid Valve with Cylindrical Coil Head



DSF-20AA

DSF-XXXX Series of Solenoid Valve with Cylindrical Coil Head is designed for fuel dispensers, featuring a durable brass body and advanced built-in parallel solenoid pilot valve. Engineered for precision and reliability, this valve ensures stable operation under harsh conditions, including temperatures as low as -40° C. Ideal for controlling gasoline, diesel, and kerosene flow with adjustable dual-flow design to meet diverse fueling needs.

Technical Specifications:

Working Medium: Gasoline, Diesel, Kerosene

Operating Pressure: 0.035 MPa ~ 0.35 MPa

Flow Rate: 3/4" is flow rate of 3 ~ 50 L/min;

1" is with flow rate of 5 ~ 100 L/min

1.5" is with flow rate of 8 ~ 150 L/min

Working Voltage: AC 220V, AC110V, DC24V, DC12V for Option

Nominal Diameter: DN20 (3/4 inch); DN25 (1 inch); DN40 (1.5 inch)

Ordering Specifications:

Product #	Detailed Specifications
dsf-20AA	Two-end flange; center distance 65 mm; inlet 2-M8 with O-ring; outlet 2-M8.5 with O-ring; voltage AC220V.
dsf-20AB	Two-end flange; center distance 65 mm; inlet 2-M8 with O-ring; outlet 2-M8 with O-ring; voltage AC220V.

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dsf-20CA	Two-end flange; center distance 70 mm; inlet 2-M8 with O-ring; outlet 2-M8 with O-ring; voltage AC220V;
dsf-20EA	Two-end flange; center distance 57 mm; inlet 2-M8.5 with O-ring; outlet 2-M8 with O-ring; voltage AC220V.
dsf-20EB	Two-end flange; center distance 57 mm; inlet 2-M8.5 with O-ring; outlet 2-M8 with O-ring; voltage AC110V.
dsf-20EC	Two-end flange; center distance 57 mm; inlet 2-M8.5 with O-ring; outlet 2-M8 with O-ring; voltage DC24V.
dsf-20ED	Two-end flange; center distance 57 mm; inlet 2-M8.5 with O-ring; outlet 2-M8 with O-ring; voltage DC12V.
dsf-25CC	Two-end flange; center distance 70 mm; inlet 2-M8.5 with O-ring; outlet 2-M8.5 with O-ring; voltage DC24V.
dsf-25CD	Two-end flange; center distance 70 mm; inlet 2-M8 with O-ring; outlet 2-M8.5 with O-ring; voltage AC220V.
dsf-25DD	Two-end internal / female thread; both inlet and outlet thread BSPP1"; voltage AC220V;
dsf-40DA	Two-end internal / female thread; both inlet and outlet thread RC1.5"; voltage AC220V.

Note: Center distance = distance between centers of two bolt holes on each flange face. All items are customizable. For the solenoid valves listed above, if a specific power cable length is required, please indicate it in the order; otherwise, the default length is 1.6 meters.

Key Features:

Dual-Flow Design: Internal parallel-type pilot solenoid valve ensures reliable switching between low and high flow, suitable for precise control at different fuel dispensing stages.

Imported Rubber Diaphragm: Main valve diaphragm made of specially imported rubber. Strong resistance to corrosion and remains flexible at low temperatures as low as -40°C.

Advanced Magnetic Circuit Components: Constructed using special stainless magnetic materials that ensure rust-free performance and zero residual magnetism.

High-Quality Coil: Coil is wound with imported Class-F enameled wire, providing low temperature rise and excellent insulation for prolonged operation.

Adjustable Low Flow Rate: When the working pressure is between 0.3 and 0.4 MPa, the valve closes the main passage and maintains a small flow system. Customizable flow rates available on request.

More Images:



DSF-40DA (1.5")



3/4" Brass Body Double Flow Solenoid Valve for fuel Dipsenser
 3/4" BSPP female thread X
 Triangle flange for connecting HBMJ-65 Tatsuno type flow meter



3/4" Brass Body Double Flow Solenoid Valve for fuel Dipsenser
 M33X1.5 male thread X
 Triangle flange for connecting HBMJ-65 Tatsuno type flow meter

MQF-15X Series of Solenoid Valves for LPG Dispenser

HB Equipment shall be used in compliance with applicable country, province and local laws and regulations. Products selection shall be based on physical specifications and limitations and compatibility with the environment. 104



This series of Dual-Flow Solenoid Valve is designed for LPG dispensers, featuring a durable brass body and advanced built-in parallel solenoid pilot valve. Engineered for precision and reliability, this valve ensures stable operation under harsh conditions, including temperatures as low as -40°C . Ideal for controlling LPG flow with adjustable dual-flow design to meet diverse filling needs.

Technical Specifications:

Working Medium: LPG
Operating Pressure: 0.035 MPa ~ 1.6MPa
Flow Rate: 1/2" is with flow rate 3 ~ 40 L/min
 3/4" is with flow rate 3 ~ 48 L/min
Working Voltage: AC 220V, AC110V, DC24V, DC12V for Option
Nominal Diameter: 1/2"(16mm) or 3/4"(20 mm) for Option

Ordering Specifications:

Product #	Detailed Specifications
MQF-15A	LPG Solenoid Valve with Connection: Female thread on both ends (BSPT1/2"); Voltage: AC220V
MQF-15B	LPG Solenoid Valve with Connection: Female thread on both ends (BSPT1/2"); Voltage: AC110V
MQF-15C	LPG Solenoid Valve with Connection: Female thread on both ends (BSPT1/2"); Voltage: DC24V
ZFDF6-25	CNG Solenoid Valve with Connection: Compression fittings (for $\varnothing 10\text{mm}$ stainless steel tubing), Voltage: AC220V

Key Features:

Dual-Flow Design: Internal parallel-type pilot solenoid valve ensures reliable switching between low and high flow, suitable for precise control at different fuel dispensing stages.

Imported Rubber Diaphragm: Main valve diaphragm made of specially imported rubber. Strong resistance to corrosion and remains flexible at low temperatures as low as -40°C .

Advanced Magnetic Circuit Components: Constructed using special stainless magnetic materials that ensure rust-free performance and zero residual magnetism.

High-Quality Coil: Coil is wound with imported Class-F enameled wire, providing low temperature rise and excellent insulation for prolonged operation.

Adjustable Low Flow Rate: When the working pressure is between 0.3 and 0.4 MPa, the valve closes the main passage and maintains a small flow system of 3~3.5L/min. Customizable flow rates available on request.

MSF-50/80 Flange Connection Series of Aluminum Solenoid Valves