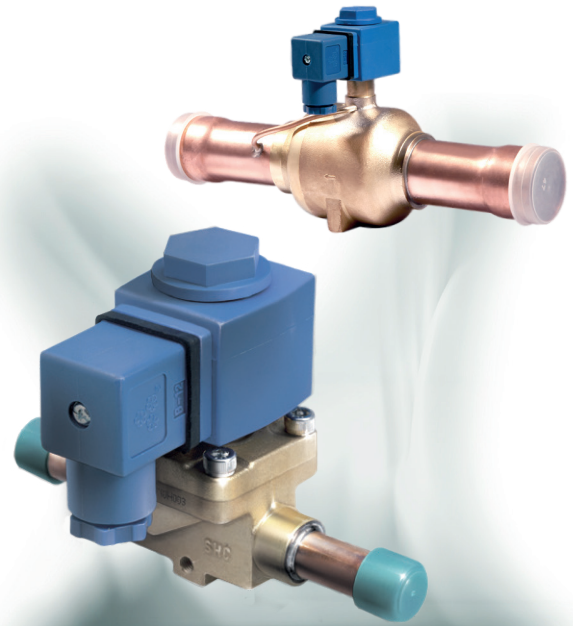




Solenoid Valve

MDF series solenoid valves are direct operated or pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.



CARATTERISTICHE

- COILS: LOW ENERGY CONSUMPTION, RELIABLE
- GREAT VALVE OPENING PERFORMANCE, HIGH MOPD
- COILS ARE DOUBLE SEALED, WATER TIGHT AND SAFE
- QUICK INSTALLATION COIL MQ-A11 FOR FAST AND EASY INSTALLATION AVAILABLE

GENERAL SPECIFICATION

- Applicable for all common HFC, HFO refrigerants such as: R134a, R404A, R407A/F, R407C, R410A, R448A, R449A, R450A, R452A, R513A, R507A ¹⁾
- Medium temperature TS min./max.:
 - MDF 2H...22H and MDF 2L...15L: -30°C/105°C
 - MDF 25H...40H: -40°C/140°C
- Ambient temperature min./max.: -30°C / +55°C

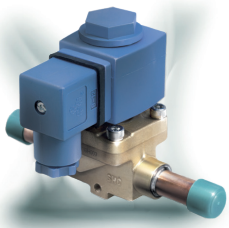
- Relative humidity: 0 to 95% RH
- Installation position:
 - Liquid, suction and discharge line
 - Preferably coil upwards and flow direction corresponds to the arrow
- Declaration according to LVD or PED

¹⁾ Flammable refrigerants like R32, R290, R1234ze(E), R1234yf on request

TECHNICAL PARAMETERS OF VALVE BODY

Solder	Flare	Usable Coils	Normal position	Actuation	Kv [m ³ /h]	MOP [Mpa]	Max. OPD [Mpa]		Min. OPD [Mpa]
MDF-A03-2H	MDF-A03-2L	AC + DC	NC ¹⁾	Direct	0,16	4,5	3,1	3,1	0,00
MDF-A03-3H	MDF-A03-3L				0,23			NR	
MDF-A03-6H	MDF-A03-6L	AC		Pilot ²⁾	0,8		NP	2,8	0,005
MDF-D03-6H	MDF-D03-6H	DC			3,1		NR		
MDF-A03-10H	MDF-A03-10L	AC		1,9	NP		2,8		
MDF-D03-10H	MDF-D03-10H	DC		2,3	3,1		NR		
MDF-A03-15H	MDF-A03-15L	AC					NP	2,8	
MDF-D03-15H	MDF-D03-15L	DC							





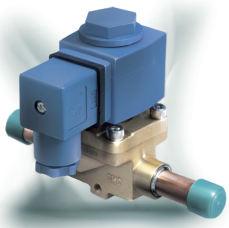
SANHUA SERIES MDF Solenoid Valve

TECHNICAL PARAMETERS OF COIL

Model Coil ¹⁾	Part Number ²⁾	Plug type	Supply	Rated Voltage [V]	Power [W]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)
MQ-A03024-000001	10820009902	DIN Plug	AC	24	10,5 (50Hz) 8,5 (60Hz)	-15% +10%	F	IP67
MQ-A0311A-000001	10820010102			110 to 120	12 (50Hz) 10 (60Hz)			
MQ-A0322G-000001	10820010002			220 to 240	12 (50Hz) 10 (60Hz)			
MQ-A11024-000001	10820009402	Quick Install Plug ³⁾	AC	24	9,5 (50Hz) 8,5 (60Hz)	-15% +10%	F	IP67
MQ-A1111A-000001	10820009202			110 to 120	11,5 (50Hz) 10,0 (60Hz)			
MQ-A1122G-000001	10820009002			220 to 240	11 (50Hz) 9,5 (60Hz)			
MQ-D03012-000002	10820001302	DIN Plug	DC	12	15	+10% -10%	F	IP67
MQ-D03024-000002	10820001002			24				

- Note:**
- 1) Match with valve body: Please respect information in table "Technical Parameters of valve body". See page 2 of this document
 - 2) Extent of delivery: coil body, fastening screw for the coil body, plug for electrical connection incl. Gaskets and fastening screws
 - 3) Outer cable diameter: 7,1 to 9,7mm and cable core 0,75 to 2,5mm²

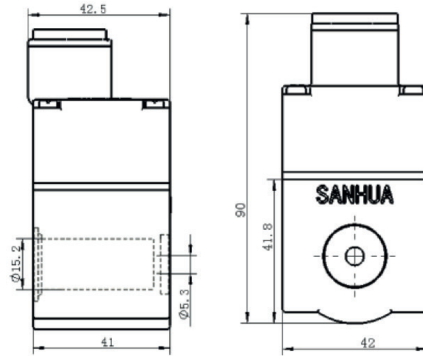
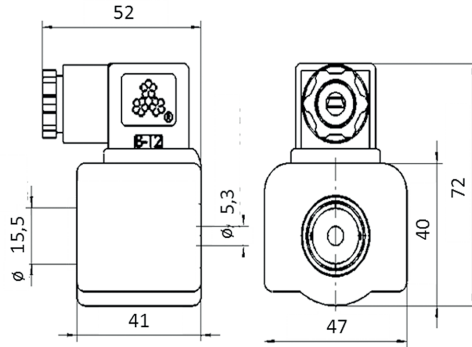




SANHUA SERIES MDF Solenoid Valve

DIMENSIONS - COILS

*MQ-A03 and MQ-D03
(Coils with DIN Plug)*

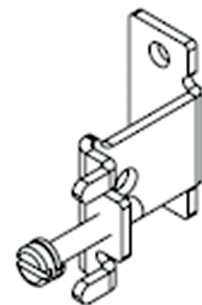


*MQ-11
(Coils with Quick Install Plug)*

ACCESSORIES

Bracket

Model ¹⁾	Part Number	Applicable Valve Models	
		Solder	Flare
MDF-A03-033001	20125000902	MDF-A03-2H	MDF-A03-2L
		MDF-A03-3H	MDF-A03-3L
		MDF-A03-6H	MDF-A03-6L
		MDF-A03-10H	MDF-A03-10L
		MDF-A03-15H	MDF-A03-15L



Note: 1) Extent of delivery: bracket and screw

