

LDF SERIES | *Solenoid Valve*

LDF 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.

All the Solenoid Valves listed in this datasheet can be installed in system using flammable refrigerants HFO (categories A2* and A2L*), and Hydrocarbons HC (category A3*).

*according ANSI-ASHRAE 34-2016 and EN-378-1 ANNE EN 378-1:2016 Annex E



FEATURES

- COILS: LOW ENERGY CONSUMPTION, RELIABLE
- LOW INTERNAL LEAKAGE
- COMPACT DESIGN, EASY TO INSTALL
- CERTIFIED ACCORDING PED CAT.II BY TUV RHEINLAND

GENERAL SPECIFICATION

- Applicable for all common HCFC and HFC refrigerants.
UL approved refrigerants: All ASHRAE Safety Group A1/A2/A2L/A3 refrigerants
- Medium temperature TS min./max.: -30°C / +120°C
- Ambient temperature min./max.: -30°C / +50°C
- Relative humidity: 0 to 95% RH
- Max. operating pressure PS: 4.5Mpa
- Installation position:
 - Liquid, suction and discharge line
 - Coil upwards, coil axis $\pm 15^\circ$ tolerance versus vertical axis
 - Flow direction corresponds to the arrow
- Declaration according to LVD or PED, UL approval
- UL File Number: MH25894

NOTE:

1) WITH R32 ONLY RESPECTING MOP 45 BAR

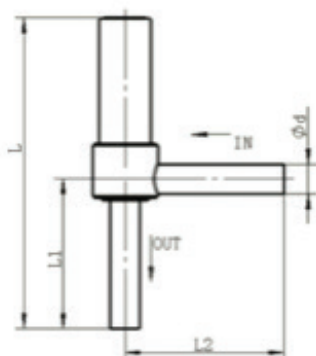
LDF SERIES | Solenoid Valve

TECHNICAL PARAMETERS OF VALVE BODY

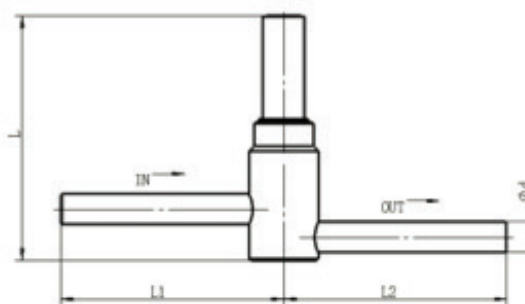
Model Valve Body	Product Number	Normal Position	Actuation	Ø Seat	Kv	MOP	OPD (MPa)		Ød OD
					[mm]		Max	Min	[mm]
LDF2A01	10127000102	NC	Direct	2	0.12	4.5	3.1	0	1/4
LDF2A02	10127000402			2	0.12			0	1/4
LDF3A08	10127001802		Pilot	3	0.26			0.005	1/4
LDF4A08	10127001102			4	0.3			0.005	1/4
LDF6A08	10127001202			5.8	0.6			0.005	5/16
LDF8A01	10127000502			8	0.9			0.005	3/8
LDF8A02	10127000602			8	1.1			0.005	3/8

DIMENSIONS - VALVE BODY

Model Valve Body	Ød ODM [inch]	Dimensions			Drawing #
		L	L1	L2	
LDF2A01	1/4	51,6	40	39,5	2
LDF2A02	1/4	79,6	38,5	40	1
LDF3A08	1/4	91	45,8	46,7	1
LDF4A08	1/4	91	45	46	1
LDF6A08	5/16	95	48,5	49	1
LDF8A01	3/8	67	71	71	2
LDF8A02	3/8	120,7	69,5	71	1



1



2

LDF SERIES | Solenoid Valve

TECHNICAL PARAMETERS OF COIL

Model Coil	Product Number	Rated Voltage (V)	Power 1) [W]	Voltage Tolerance	Insulation Class	Wiring type
FQ-A05 024-000709	10800072302	AC 24	5 (50Hz) 4,5 (60Hz)	-15% +10%	B	Lead Wires
FQ-A05 120-001098	10800062002	AC 120	5 (50Hz) 4,5 (60Hz)			
FQ-A05 22G-001044	10800058002	AC 220-240	5 (50Hz) 4,5 (60Hz)			

DIMENSIONS - COIL LEAD WIRES

