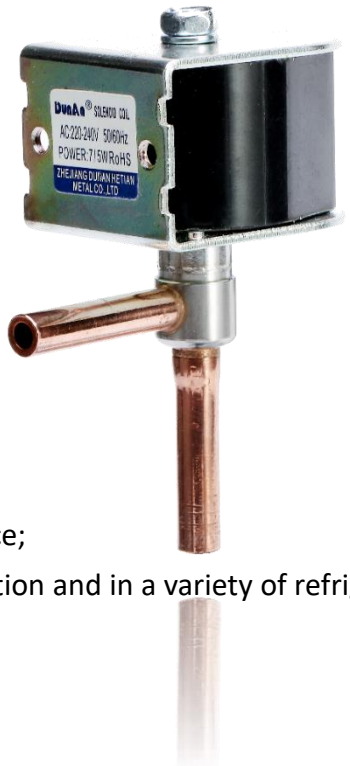
CO_2 Solenoid Valve

RDF Series

Application

By switching the electromagnetic coil to cut off or activate the refrigerant flow, RDFA series solenoid valves are designed for operating in liquid, suction and hot gas lines of CO_2 systems, such as HP water heater, freezing and refrigerating systems.



Features

- Material promotion, longer service life, excellent corrosion resistance;
- Performance Optimization, can work under high temperature condition and in a variety of refrigerants;
- Compact structure and shape;

Technical Data

Applicable Medium: R744 (CO_2) + PAG oil
Relative Humidity: ≤95%
Medium Temperature: -30°C~+120°C
Ambient Temperature: -30°C~+55°C
Max. Operating Pressure: 14.0 MPa
Internal Leakage: ≤ 50mL/min
NC (normally closed), angleway, uni-directional flow
Life Cycle: ≥ 100,000

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DunAn
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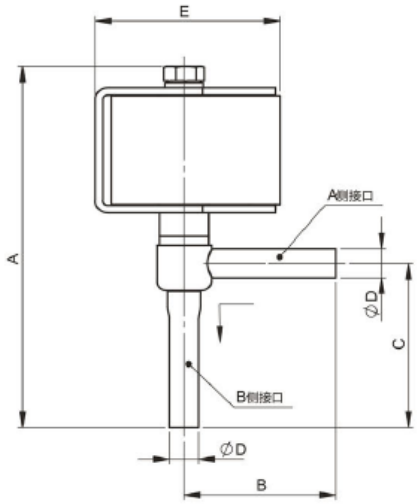
Specification

Model	Orifice Φ [mm]	Min. OPD [MPa]	MOPD [MPa]	Max. Operating Pressure [MPa]	K_V [m^3/h]	Connection [mm]
RDFA1.0S	1.0	0	10	14	0.024	6.35
RDFA1.2S	1.2	0	10	14	0.033	6.35

Coil

Model	Nominal Voltage [V]	Voltage range	Frequency [Hz]	Power [W]	Insulation Class	Protection Class	Connection Type
CDFX-101	DC 12	90% ~ 110%	-	9	B	IP67	wire
CDFX-102	DC 24						
FDFX-046	AC 100						
FDFX-047	AC 110						
FDFX-048	AC 200	85% ~ 110%	50/60	7/5			
FDFX-0137	AC 220						
FDFX-050	AC 230						

Dimensions



Model	A	B	C	D	E
	[mm]	[mm]	[mm]	[mm]	[mm]
RDFA1.0S—1.2S	80	35	36	6.35	41

Note:
Valve dimensions could be customized.