



METALICAN
FARS



Solenoid valve catalog model
DCF_Z

Selection description of DCF-Z right-angle electromagnetic pulse valve

The angle between inlet and outlet of Z-type electromagnetic pulse valve is 90°, it can be used to combine with connector (at deduster body wall), air distribution box and special flexible joint. It will be very convenience for installation. operation and maintenance once the selection of combination is reasonable.

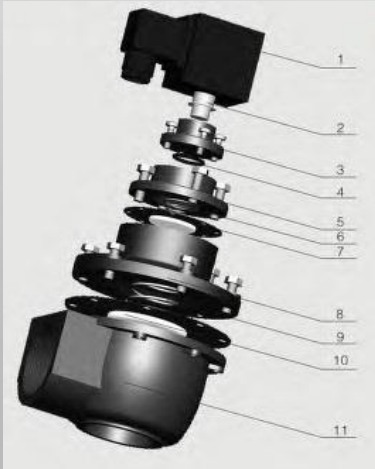
Electromagnetic pulse valve

Structural Characteristics

The thread structure of DCF-Z right-angle electromagnetic pulse valve developed by Xiechang Company is inch pipe thread. The exhaust-chamber volume of improved DCF-Z electromagnetic pulse valve is increased. The permeability magnetic material of electromagnet pulse valve is improved. and also. the materials of structures of diaphragm and pressure spring are improved, so the exhaust amount of the valve is increased to raise the magnetic strength and sensitivity as well as element reliability and operation stability of electromagnetic pulse valve. Its service life will be greatly prolonged.

Assembly

DCF-Z



Model	Model	
	Serial Number	Name
DCF_Z_20	1	Electromagnetic coil
	2	Armature assembly
DCF_Z_25	3	Armature clamping plate
	4	Seal ring of clamping plate
DCF_Z_40S	5	Armature valve seat
	6	Small spring
DCF_Z_50S	7	
	8	S bonnet
DCF_Z_62S	9	Big spring
	10	Big diaphragm assembly
DCF_Z_76S	11	Z valve seal

Instruction:

- 1.The single diaphragm is adopted for DCF-Z-20 and DCF-Z-25 electromagnetic pulse valves, the serial numbers 5. 6 and 7 for three assemblies are not set.
- 2.Supply is possible upon your information of assembly name and the corresponding model number of electromagnetic pulse valve.



Model	Model	
	Serial Number	Name
DCF_2L_B	1	Electromagnetic coil
	2	Armature
	3	Armature Valve seat
	4	O-shaped seal ring
	5	B bonnet
	6	Big spring
	7	diaphragm assembly
	8	B valve seat

Model Specification

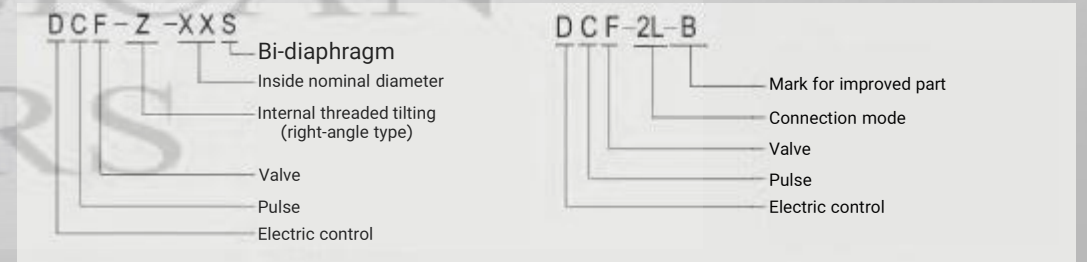
DCF - Z

Z Model	Z Specification	Standard dimension of air intake and outlet of the valve	
		Inside nominal diameter (mm)	Inside nominal diameter (inch)
DCF_Z_20	3/4"	20	G3/4"
DCF_Z_25	1"	25	G1"
DCF_Z_40S	1 1/2"	40	G1 1/2"
DCF_Z_50S	2"	50	G2"
DCF_Z_62S	2 1/2"	62	G2 1/2"
DCF_Z_76S	2 1/2"	76	G3"

DCF-2L_B

Model	Specification	Standard dimension of air intake and outlet of the valve	
		Inside nominal diameter (mm)	Inside nominal diameter (inch)
DCF_2L_B	3/4"	20	G3/4"

The meaning of model



Work principle

Electromagnetic pulse valve is composed of electromagnetic pre-head, diaphragm and valve body. The back cavity of the diaphragm is bigger than the front cavity. The diaphragm is kept at the closed position due to the effect of big pressure.

Electric control cabinet inputs electronic signal so that the electromagnetic armature attracts the moving bar. Unclose the balancing hole to release the pressure gas in the back cavity of the diaphragm quickly; the pressure gas in the front cavity holds up the diaphragm to open the passage and the pulse valve starts blowing.

The signal disappears and the spring of the armature works immediately to resume the moving bar so as to close the balancing hole. The pressure gas in the back cavity of the diaphragm and the spring work together to close the passage and the valve stops blowing.

The orifice in the diaphragm functions to damp the airflow when the moving bar of the armature holds up for balancing and to transit the air to the back cavity as soon as the balancing hole is shut to close the passage and stop blowing.

Technical standards

Work pressure: 0.4-0.6MPa _ 4 – 6 Bar

Work medium: clean air

Voltage, DC24V, (AC220V/50HZ)

Current: 0.8A(O 05A)

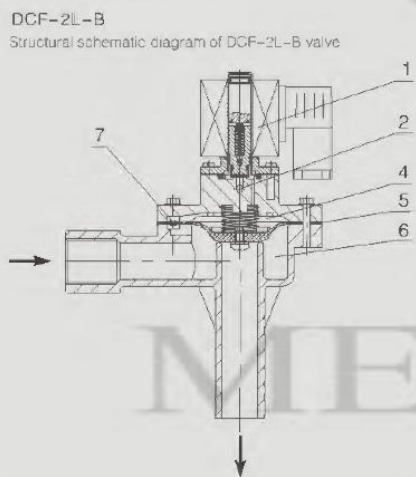
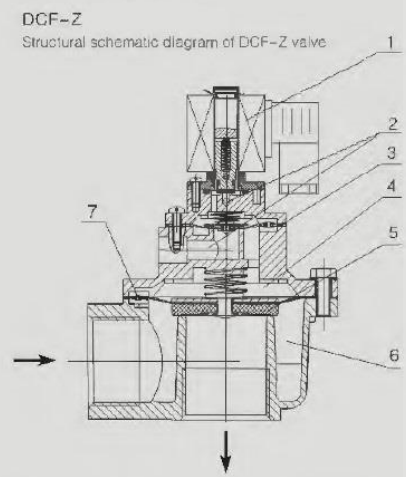
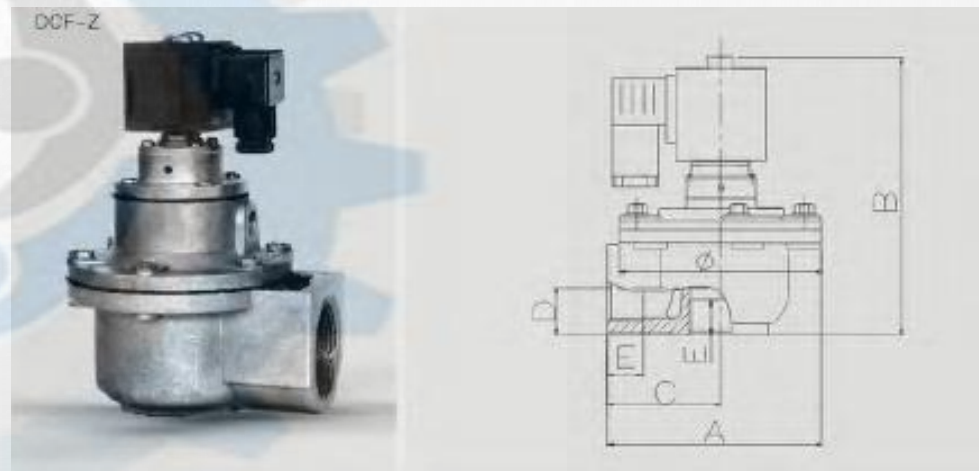
Application environment:

1 Temperature: - 10° C - 55° C

2 The relative humidity of air not exceeding 85%

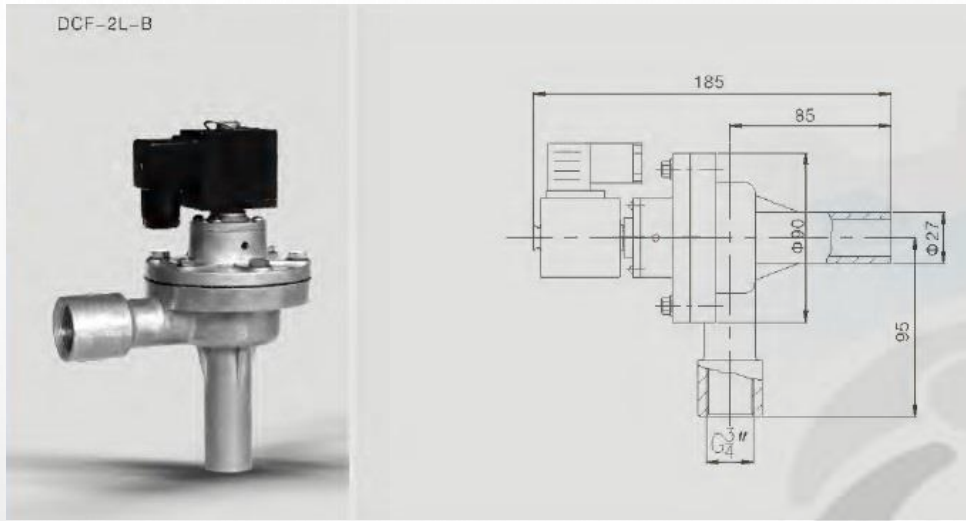
Maintenance life of diaphragm: 1 million times

Dimension



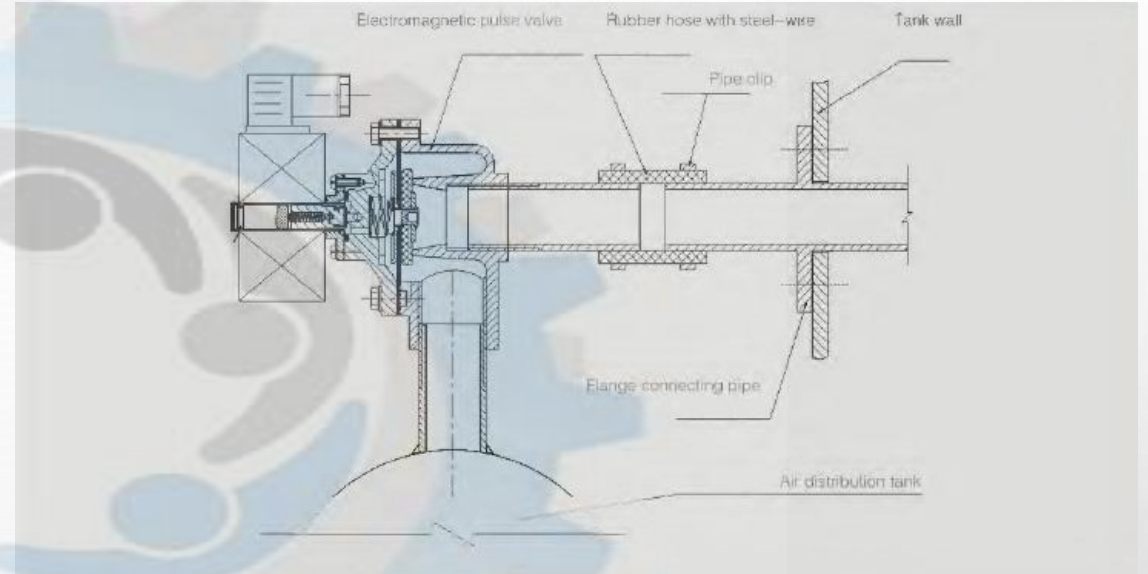
1. Electromagnetic coil
2. Balancing hole
3. Small diaphragm
4. Back cavity of diaphragm
5. Big diaphragm
6. Front cavity of diaphragm
7. Orifice

Model	Φ	A	B	C	D	E
DCF_Z_20	80	88	128	48	20	22
DCF_Z_25	96	113	136	65	24	27
DCF_Z_40	112	131	146	75	32	29
DCF_Z_40S	112	131	180	75	32	29
DCF_Z_50S	160	180	206	100	43	36
DCF_Z_62S	188	204	226	110	49	37
DCF_Z_76S	200	220	250	120	66	38



Simplified reference schematic installation diagram of electromagnetic pulse valve

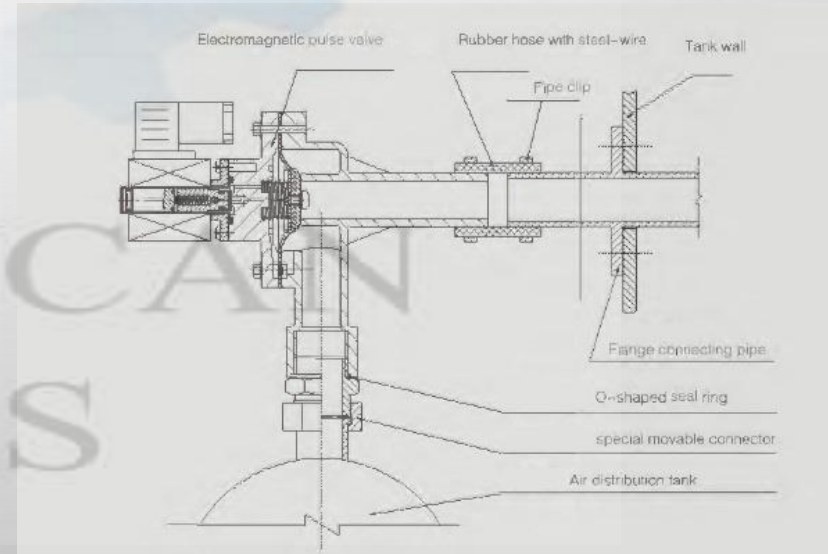
DCF-Z Installation mode



Electromagnetic Valve and Accessories List

Model Specification	Model and Specification of movable special connections	Model and specification of tank wall connectors				
DCF_Z_20	DCF_2L_B	XC- HJD (Z) - 20	XC- XBD- 20	Single thread structure		
DCF_Z_25					XC-HJD (Z) -25	XC- XBD- 25
DCF_Z_40S					XC-HJD (Z) -40	XC-XBD-40
DCF_Z-20		XC- HJD (Z) - 20	XC-XBS-20		Double thread structure	
DCF_Z_25		XC-HJD (Z) -25	XC-XBS-25			
DCF_Z_40S		XC-HJD (Z) -40	XC- XBS- 40			

DCF-2L-B Installation mode



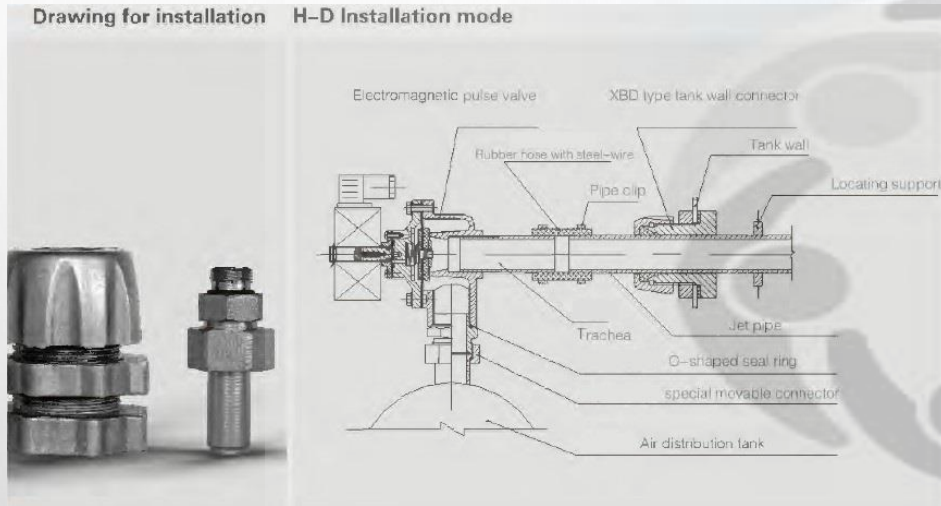
Note: The DCF-ZM operation manual is referenced for the structural diagram. outline overall and Installing dimensions of special flexible joint and box-wall connector

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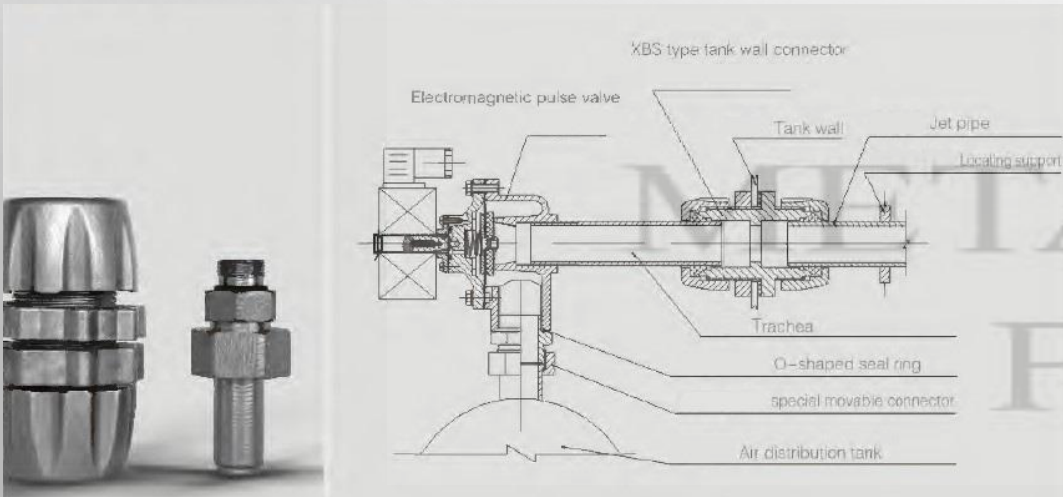
Instruction on electromagnetic pulse valve, tank wall connector, jet pipe and air distribution tank

There are three models OF-Z-20, OCF-Z-25 and OCF-Z-40S of Xiechang Company OCF-Z right-angle electromagnetic pulse valve with two installation modes H-0 and H-S available. The installation mode H-J-0 can be adopted for the OCF-2L-B valve.

The installation and maintenance will be convenient and the operation will be reliable once the selection of combination is reasonable.



H-S Installation mode



Models of accessories

Model Specification	Models of accessories	Model Specification
DCF-Z-40S	special movable connector	XC-HJD (Z) -40
	XBD type tank wall connector	XC-XB0- 40
	XBS type tank wall connector	XC-XBS-40
	Air vent pipe (DN40)	Φ 48
	Rubber hose with steel-wire	Φ 50x3
DCF-Z-25	Pipe clip	Φ (40-63)
	Special movable connector	XC- HJO (Z) -25
	XBD type tank wall connector	XC-XBD-25
	XBS type tank wall connector	XC-XBS-25
	Air vent pipe (DN25)	Φ 33.5
DCF-Z-20	Rubber hose with steel-wire	Φ 32x3
	Pipe clip	Φ (27- 51)
	Special movable connector	XC- HJD (Z) - 20
	XBD type tank wall connector	XC-XBD-20
	XBS type tank wall connector	XC-XBS-20
DCF-Z-20	Air vent pipe (DN20)	Φ 26.6
	Rubber hose with steel-wire	Φ 25x3
	Pipe clip	Φ (21-38)

Note:

1. The dimension unit is mm.

2. The dimensions of air vent pipes (external diameter of steel pipe) are respectively $\leq 148\text{ mm}$, $\leq 133.5\text{ mm}$ and $\leq 126.6\text{ mm}$. For the external diameter of air vent pipe at matching position, maximal surface roughness R_a : $3.2 \sim \mu\text{m}$, pipe-end chamfer of external diameter: 30 , length: 3 mm . The dimensions of rubber hose with steel-wire (internal diameter x thickness): $\leq 150 \times 3\text{ mm}$, $\leq 132 \times 3\text{ mm}$ and $\leq 125 \times 3\text{ mm}$.

H-J-D Installation mode

