



Solenoid valve catalog model DCF_Y

Manual of DCF-Y Type Electromagnetic Pulse Valve

The electromagnetic pulse valve is just the valve in blowing pipeline of dust removal system with pulsed bag deduster

it is controlled by electric control instruments to remove dust with pulse (momentum) method.Combined with XC- GO- Y blowingpipe

connector for use. its operation is reliable. the installation and maintenance are convenient.

Electromagnetic pulse valve

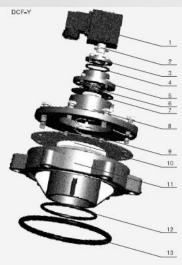
Structural Characteristics

The concealed structure (also called embedded structure) is adopted for the DCF-Y electromagnetic pulse valve developed

by Xiechang Company, it is directly installed on air distribution box, so it has better characteristics lower res1stance and less

pressure loss, the usage range of air source IS expanded, and it is suitable in the site where the pressure of air source is lower.

Assembly

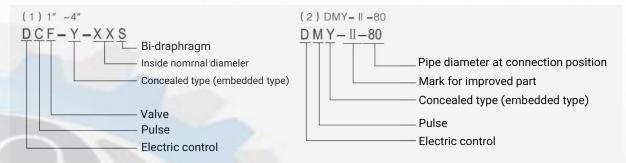


Model		Model
	Serial Number	Name
	1	Electromagnetic coll
	2	Armature assembly
	3	Armature clamping plate
DCF_Y_25	4	Seal ring of clamping plate
DCF_Y_40S	5	Armature valve seat
DOF V FOS	6	Small spring
DCF_Y_50S	7	
DCF_Y_62S	8	S bonnet
	9	Big spring
DCF_Y_76S	10	Big diaphragm assembly
	11	Y valve seal
	12	O Sealing ring on Valve-
		seat spout
	13	O Sealing ring on Valve
		seat end face

Instruction:

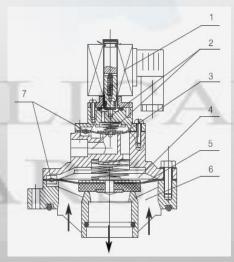
- 1.For DCF-Y-25 valve, the serial numbers 5, 6 and 7 of three assemblies are not set
- 2 .Supply is posstble upon your Information of assembly name and the correspond ng model number of electromagnetic pulse valve.

The meaning of model



Technical standards

Work pressure: 0.2 -0.6MPa
Work medium: clean air
Voltage, DC24V.
(AC220V/50HZ)
Current: 0 8A(0.05A)
Application enwonment:
1 Temperature: -10" C-55° C
2 The relative humtdity of arr
not exceeding 85%
Maintenance life of
diaphragm: 1 million times



Work principle

Electromagnetic pulse valve is composed of electromagnetic prehead, 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 font 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 balanc1ng 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 balanc1ng hole 1s shut to close the passage $\,$

and stop blowing.

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

Model Specification

Model	Specification	Nominal Diameter of blowing Pipe		
		Inch Size	The Metric System	
DCF_Y_25	1"	1"	25	
DCF_Y_40\$	1 1/2"	1 1/2"	40	
DCF_Y_50\$	2"	2"	50	
DCF_Y_62S	2 1/2"	2 1/2"	62	
DCF_Y_76S	3"	3"	76	

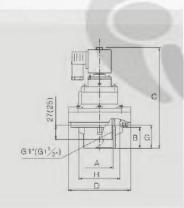
Model Specification DCF_Y_25 6_Ф11 DCF_Y_40S 1 1/2" DCF_Y_50S 60.5 DCF_Y_62S 2 1/2" 75.5 DCF_Y_76S 89.5

Model Specification

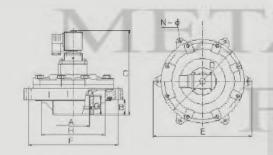
Model	Specification	Nommal dlameler of blowmg pipe
DMY_II_80	80	80

Reference on installation dimension





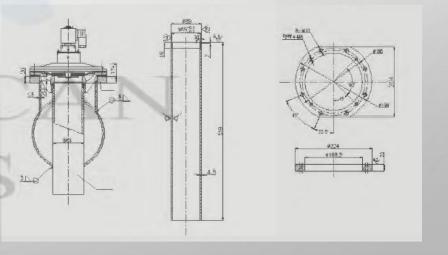
DCF-Y-50S/62S/76S



Reference on installation dimension



Drawing for installation



Blowing-pipeconnector

The blowing-pipe connector 1s a connecting device to connect concealed type electromagnetic pulse valve, air distribution box and blow1ng pipe

Structural Characteristics

Aluminum die-casting and thread connection are adopted for the metal pieces in the structure of the blowing-pipe connector

developed by Xiechang Company. Its installation and maintenance is convenient. the operation is reliable, and the past drawbacks

of welding distortion and difficult dismounting are avoided.

Model	Specifiction		
	B.S (British Standard)	Nominal	
XC_PGQ_Y25	1"	DN25	
XC_PGQ_Y40S	1 1/2"	DN40	
XC_PGQ_Y50S	2"	DN50	
XC_PGQ_Y62S	2 1/2"	DN62	
XC_PGQ_Y76S	3"	DN76	

Model. Specification

Assembly drawings

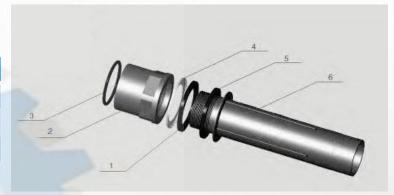
Model	Specifition
XC_PGQ_Y25	1"
XC_PGQ_Y40S	1 1/2"



1 Seal ring XC_PGQ_Y25_1 XC_PGQY-25 XC_PGQ_Y40S_1 XC_PGQY40S 2 Cup Gasket XC_PGQ_Y25_2 XC_PGQY-25 XC_PGQ_Y40S_2 XC_PGQ_Y40S XC_PGQ_Y40S 3 Compression nut XC_PGQ_Y25_3 XC_PGQY-25 XC_PGQ_Y40S_3 XC_PGQ_Y40S XC_PGQ_Y40S 4 Cup Gasket XC_PGQ_Y25_4 XC_PGQY-25 XC_PGQ_Y40S_4 XC_PGQ_Y40S 5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25	Serial Number	Assembly name	Model	Model of related assembly
Z Cup Gasket XC_PGQ_Y25_2 XC_PGQY-25 XC_PGQ_Y40S_2 XC_PGQ_Y40S 3 Compression nut XC_PGQ_Y25_3 XC_PGQY-25 XC_PGQ_Y40S_3 XC_PGQ_Y40S XC_PGQ_Y40S 4 Cup Gasket XC_PGQ_Y25_4 XC_PGQY-25 XC_PGQ_Y40S_4 XC_PGQ_Y40S XC_PGQ_Y40S 5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25	1	Seal ring	XC_PGQ_Y25_1	
3 Compression nut XC_PGQ_Y40S_2 XC_PGQ_Y40S 3 Compression nut XC_PGQ_Y25_3 XC_PGQY-25 XC_PGQ_Y40S_3 XC_PGQ_Y40S 4 Cup Gasket XC_PGQ_Y25_4 XC_PGQY-25 XC_PGQ_Y40S_4 XC_PGQ_Y40S 5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25			XC_PGQ_Y40S_1	XC_PGQ_Y40S
3 Compression nut XC_PGQ_Y25_3 XC_PGQY-25 XC_PGQ_Y40S_3 XC_PGQ_Y40S 4 Cup Gasket XC_PGQ_Y25_4 XC_PGQY-25 XC_PGQ_Y40S_4 XC_PGQ_Y40S XC_PGQ_Y40S 5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25	2	Cup Gasket	XC_PGQ_Y25_2	XC_PGQY-25
XC_PGQ_Y40S_3 XC_PGQ_Y40S 4 Cup Gasket XC_PGQ_Y25_4 XC_PGQY-25 XC_PGQ_Y40S_4 XC_PGQ_Y40S XC_PGQ_Y40S 5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25			XC_PGQ_Y40S_2	XC_PGQ_Y40S
4 Cup Gasket XC_PGQ_Y25_4 XC_PGQY-25	3	Compression nut	XC_PGQ_Y25_3	XC_PGQY-25
XC_PGQ_Y40S_4 XC_PGQ_Y40S 5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25			XC_PGQ_Y40S_3	XC_PGQ_Y40S
5 Seal ring XC_PGQ_Y25_5 XC_PGQY-25 XC_PGQ_Y40S_5 XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25	4	Cup Gasket	XC_PGQ_Y25_4	XC_PGQY-25
XC_PGQ_Y40S_5 XC_PGQ_Y40S 6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25			XC_PGQ_Y40S_4	XC_PGQ_Y40S
6 Jet Pipe XC_PGQ_Y25_6 XC_PGQY-25	5	Seal ring	XC_PGQ_Y25_5	XC_PGQY-25
			XC_PGQ_Y40S_5	XC_PGQ_Y40S
XC PGQ Y40S 6 XC PGQ Y40S	6	Jet Pipe	XC_PGQ_Y25_6	XC_PGQY-25
No_1 0 0_1 100_0			XC_PGQ_Y40S_6	XC_PGQ_Y40S

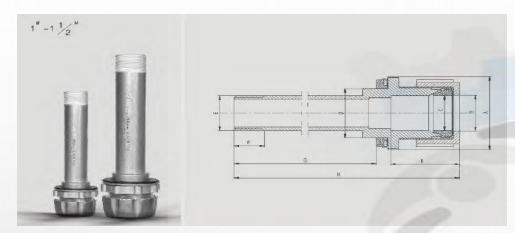
Assembly drawings

Model	Specifition
XC_PGQ_Y50S	
XC_PGQ_Y62\$	
XC_PGQ_Y76S	



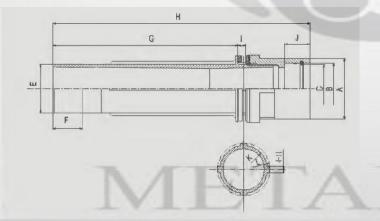
Serial number	Assembly name	Model	Model of related
			assembly
	External sealing nng	XC_PGQ_Y50S_1	XC_PGQ_Y50S
		XC_PGQ_Y62S_1	XC_PGQ_Y62S
		XC_PGQ_Y76\$_1	XC_PGQ_Y76\$
2		XC_PGQ_Y50\$_2	XC_PGQ_Y50S
		XC_PGQ_Y62\$_2	XC_PGQ_Y62S
		XC_PGQ_Y76\$_2	XC_PGQ_Y76S
3	0-shaped seal ring	XC_PGQ_Y50S_3	XC_PGQ_Y50S
		XC_PGQ_Y62S_3	XC_PGQ_Y62S
		XC_PGQ_Y76S_3	XC_PGQ_Y76S
4		XC_PGQ_Y50S_4	XC_PGQ_Y50S
		XC_PGQ_Y62\$_4	XC_PGQ_Y62S
	A To T	XC_PGQ_Y76S_4	XC_PGQ_Y76S
5	Internal sealmg ring	XC_PGQ_Y50S_5	XC_PGQ_Y50S
		XC_PGQ_Y62\$_5	XC_PGQ_Y62S
		XC_PGQ_Y76S_5	XC_PGQ_Y76S
6	JP1 ope	XC_PGQ_Y50S_6	XC_PGQ_Y50S
_ ~		XC_PGQ_Y62S_6	XC_PGQ_Y62S
		XC_PGQ_Y76S_6	XC_PGQ_Y76S

Reference on installation dimension



Model	Specification	Α	В	С	D	E	F	G	Н	1
XC_PGQ_Y25	1"	Ф77	Ф35	Ф33	Ф48	G1"	25	175	235	47
XC_PGQ_Y40S	1 1/2"	Ф99	Ф50	Ф47	Ф60	G1 1/2"	30	234	300	54



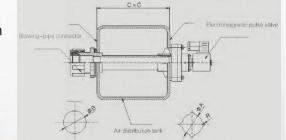


Description for installation and selection of electromagnetic pulse valve, air distribution box and blowing-pipe connector

For the DCF-Y concealed type electromagnetic pulse valve developed by Xtechang Company, there Bilii are two structures and live sizes of special blowing pipe connectors based on valve size for use IIN\W:iitl~combtned with air dtstnbution box, tiS operatton is reliable, the tnstallation and maintenance are conventent.

Drawing for installation

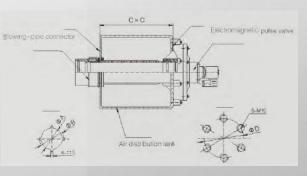
Model	Specification
XC_PGQ_Y25	1"
XC_PGQ_Y40S	1 1/2"



Model	Electromagnetic	Air dtstnbutton tank -A		Air dtstnbutton tank -B	Air dtstnbutton tank -C
	pulse valve Model	ФА	R	ФВ	
XC_PGQ_Y25	DCF_Y_25	60	3.5	50	180
XC_PGQ_Y40S	DCF_Y_40S	74	4	62	240

Drawing for installation

Model	Specification
XC_PGQ_Y50S	2"
XC_PGQ_Y62S	2 1/2"
XC_PGQ_Y76S	3"



Model	Specification	Α	В	C	E	F	G	H		J	K	L
XC_PGQ_Y50S	2"	82.5	Ф64	Ф58	Φ60	45	230	345	12	40	Ф60	Ф66
XC_PGQ_Y62S	1 1/2"	95	Ф79.5	Ф74	Ф75	45	289	400	12	40	Ф75	Ф82
XC_PGQ_Y76S	3"	108	Ф94	Ф87.5	Ф59	45	290	405	12	40	Ф89	Ф95

Model	Electromagnetic	Air dtstnbutton tank -A	Air dtstnb	Air dtstnbutton tank -C	
	pulse valve Model	ΦU	ФА	ФВ	
XC_PGQ_Y50S	DCF_Y_50S	180	60.5	66.5	240
XC_PGQ_Y62S	DCF_Y_62S	208	75.5	82.5	300
XC_PGQ_Y76S	DCF_Y_76S	227	89.5	95.5	300