

Pulse Valve and Pneumatic Valve

- Right-angle Type
- Right-angle Flange Type
- Right-angle Nut Type
- Straight-through Types
- Embedded Type
- Piston Type
- 8 inch to 16 inch Big Size Valve

Warranty: 5 years or 1 million times



PULSE VALVE AND PNEUMATIC VALVE



Pulse Valve And Pneumatic Valve

The pulse valve (also called the diaphragm valve) is the compressed air 'switch' of the bag filter dust-cleaning system. Controlled by output signal of pulse controller, dust cleaning for the bag filter row by row (or chamber by chamber), and keep the operating resistance of the bag-house within the set range, guarantee the high processing ability and dust-collecting efficiency of the bag-house.

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- Right-angle Flange Type
- Right-angle Nut Type
- Straight-through Types
- Embedded Type
- Piston Type
- 8 inch to 16 inch Big Size Valve

Technical Specifications

Operating pressure	0.1~0.8MPa (Recommended pressure 0.2~0.6MPa)			
Working medium	Clean air			
Voltage	DC24V	AC36V	AC110V	AC220V
Power	24W	20W	20W	20W
Temperature level	1		2	
	-25°C~100°C -13°F~212°F		-25°C~230°C -13°F~446°F	
Relative humidity of air	<85%			
Degree of protection	IP65 ¹			
Diaphragm life	One million blows or 5 years			

Notes:

1. Both the pulse valves and the pneumatic valves may be installed with a muffler.
2. The pulse valves may be installed with a certified explosion-proof solenoid.
3. The pulse valves (pneumatic valves) may be connected with hoses with a diameter of 6, 8, 10mm, etc.

Material of Construction

Body	ADC12 aluminum alloy
Clamp spring	304 stainless steel
Pilot component	430FR stainless steel, etc.
Diaphragm	Nitrile rubber/fluororubber (high-temperature valve) ²
Spring	304 stainless steel
Fastener	302 stainless steel

¹ According to testing results given by Shanghai Institute of Measurement and Testing Technology, the valves comply with the technical requirements in GB4208-2008.

² All the diaphragms are imported and finished with quality as high as imported diaphragms. All the diaphragm components are inspected during manufacturing. After electrical and compressed air connection, a blowing test is done of each finished valve.



Right-angle Type

Z Series

DMF/MF-Z

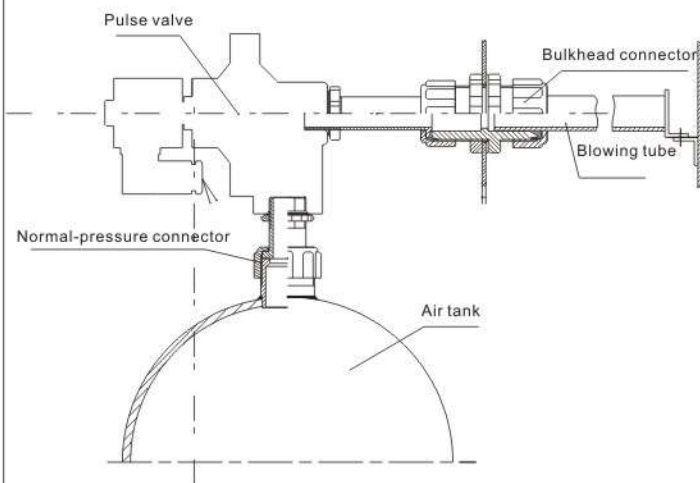
The inclined angle between air inlet and air outlet is 90°. They are suitable for connecting air tank with blowing tubes for bag filters with smooth air flow, they can provide efficient dust-cleaning.



Type Definition

DMF	Z	40	S	-	1	1	D
Type	Right-angle type	Size	Material	Control Voltage	Temperature Range	Diagram Type	
DMF : Electric control MF : Pneumatic control		20 : G3/4" 25 : G1" 40 : G1.5" 50 : G2" 62 : G2.5" 76 : G3" 102 : G4"	1. Aluminum 2. Stainless Steel 3. Food Grade 4. Antiseptic 5. Li Battery	A : AC220V B : AC110V C : AC36V D : DC24V	1 : -25°C-100°C 2 : -25°C-230°C	Blank : Single Diaphragm S: Dual Diaphragm	

Installation Drawing



Specification

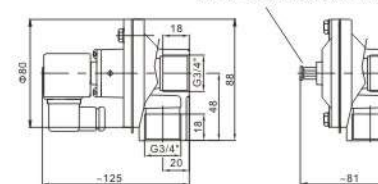
DMF-Z-20 (3/4")



MF-Z-20 (3/4")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 80

Air inlet/Outlet size G^{3/4}" G^{3/4}"

Weight(kg) 0.65

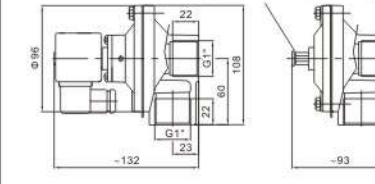
DMF-Z-25 (1")



MF-Z-25 (1")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Φ 96

G1" G1"

0.8

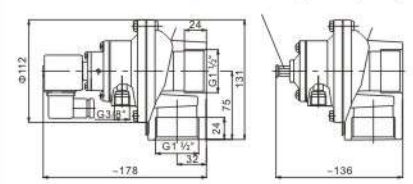
DMF-Z-40S (1 1/2")



MF-Z-40S (1 1/2")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Φ 112

G 1 1/2" G 1 1/2"

1.4

Specification

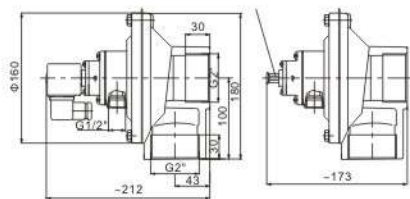
DMFZ50S(G2")



MFZ50S(G2")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 160

Air inlet/Outlet size

G2" G2"

Weight(kg)

2.4

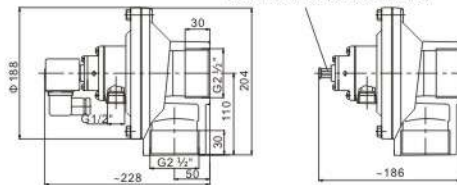
DMFZ62S(G2 1/2")



MFZ62S(G2 1/2")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 188

Air inlet/Outlet size

G2 1/2" G2 1/2"

Weight(kg)

3.5

Specification

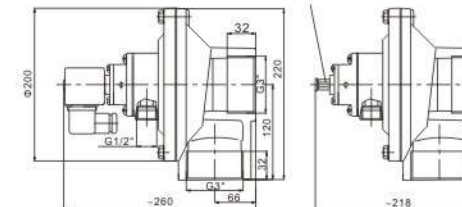
DMFZ76S(G3")



MFZ76S(G3")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 202

Air inlet/Outlet size

G3" G3"

Weight(kg)

4.3

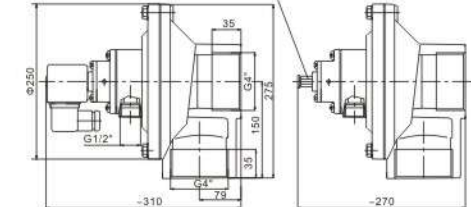
DMFZ102S(G4")



MFZ102S(G4")



Only height difference between DMF&MF valve
please indicate the pipe size Φ (6/8/10)



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 255

Air inlet/Outlet size

G4" G4"

Weight(kg)

7.3

Right-angle Flange Type

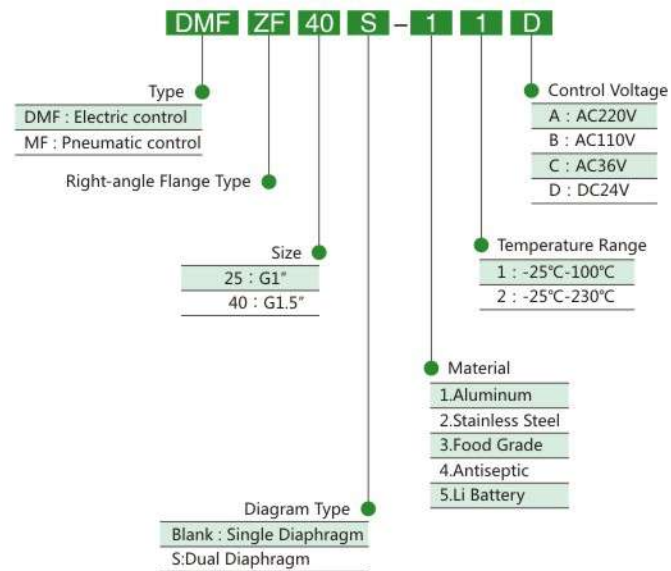
ZF Series

DMF/MF-ZF

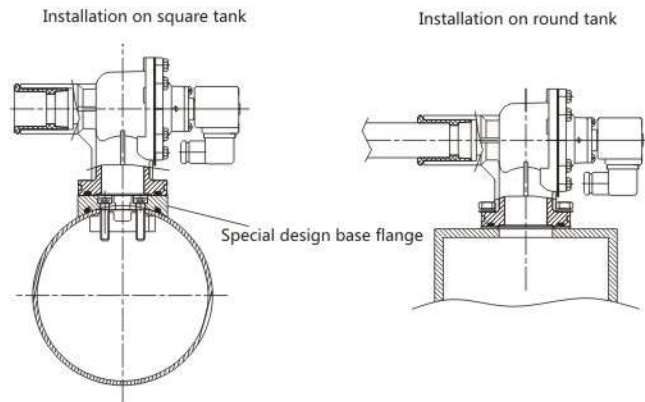
ZF type has the same 90° angle as Z type, just flange connection with air tank with hard or soft tube on output port.



Type Definition



Installation Drawing



Specification

DMFZF25(1")



Flange set(Optional)

DMFZF40S(1 1/2")



Flange set(Optional)

MFZF25(1")

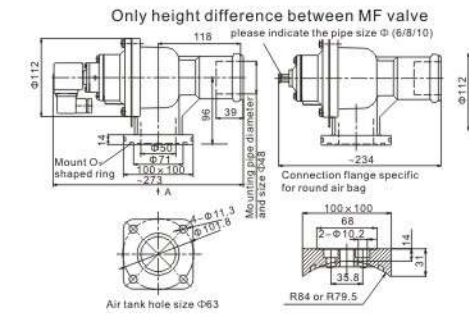
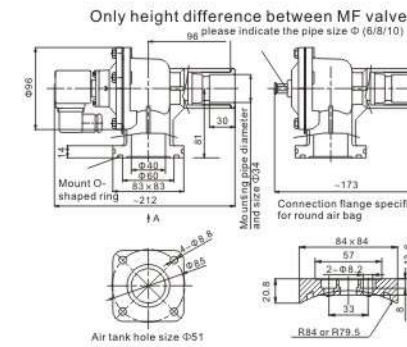


Flange set(Optional)

MFZF40S(1 1/2")



Flange set(Optional)



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ96

Φ112

Air inlet/Outlet size

Φ34 Φ34

Φ48 Φ48

Weight(kg)

1

1.6



Right-angle Type

ZM Series

DMF/MF-ZM

Same as 'Z' valve, It's suitable for connecting air blow tubes. Inlets and outlets are provided with retaining units for installation purposes, installation and operation easier more.

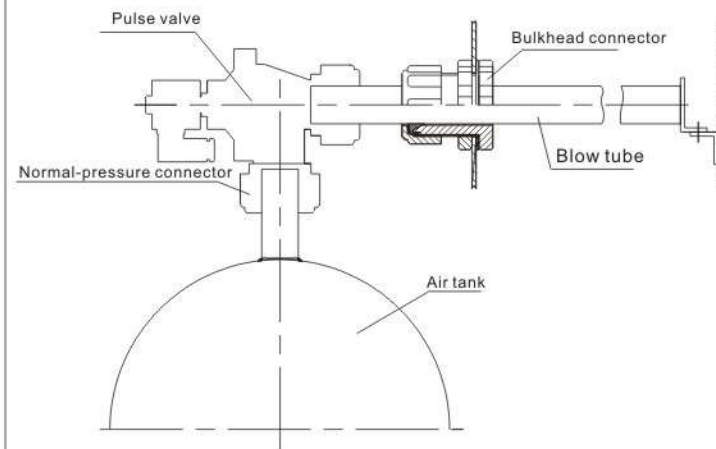


Type Definition

DMF ZM 40 S - 1 1 D

Type	Control Voltage
DMF : Electric control	A : AC220V
MF : Pneumatic control	B : AC110V
	C : AC36V
	D : DC24V
Right-angle Nut Type	Temperature Range
	1 : -25°C-100°C
	2 : -25°C-230°C
Size	Material
20 : 3/4"	1. Aluminum
25 : G1"	2. Stainless Steel
40 : G1.5"	3. Food Grade
	4. Antiseptic
	5. Li Battery
Diagram Type	
Blank : Single Diaphragm	
S: Dual Diaphragm	

Installation Drawing



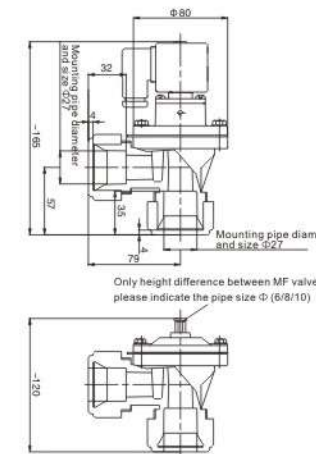
ZM Series

Specification

DMFZM20(3/4")



MFZM20(3/4")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ80

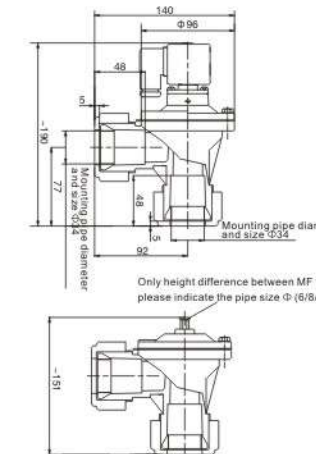
Air inlet/Outlet size Φ27 Φ27

Weight(kg) 0.9

DMFZM25(1")



MFZM25(1")



Φ96

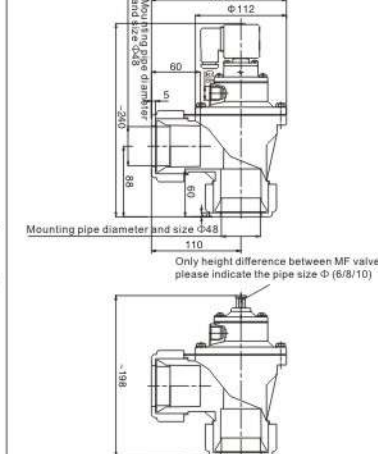
Air inlet/Outlet size Φ34 Φ34

Weight(kg) 1.3

DMFZM40S(1 1/2")



MFZM40S(1 1/2")



Φ112

Air inlet/Outlet size Φ48 Φ48

Weight(kg) 2.0



Embedded Type

Y Series

DMF/MF-Y

Directly installed on the manifold box. It has better flow characteristics and operate with reduced pressure loss. It's suitable for working conditions with lower air pressures.

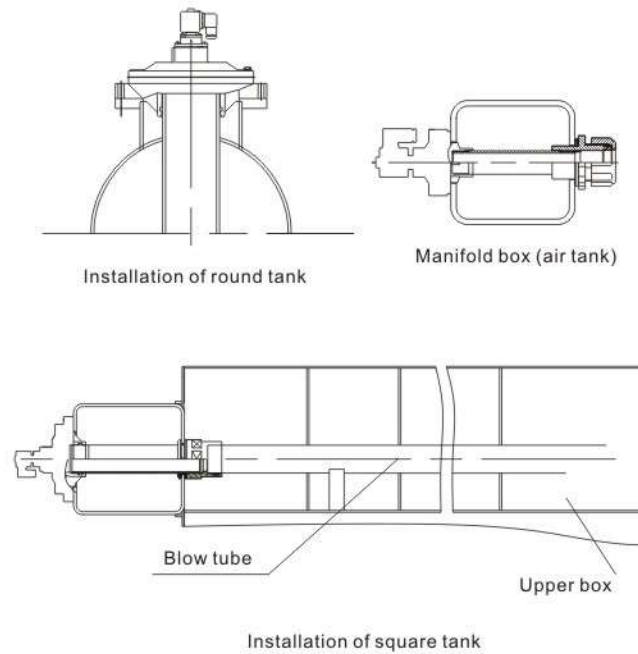


Type Definition

DMF Y 40 S - 1 1 D

Type	Control Voltage
DMF : Electric control	A : AC220V
MF : Pneumatic control	B : AC110V
	C : AC36V
	D : DC24V
Embedded type	Temperature Range
	1 : -25°C-100°C
	2 : -25°C-230°C
Size	Material
20 : G3/4"	1. Aluminum
25 : G1"	2. Stainless Steel
40 : G1.5"	3. Food Grade
50 : G2"	4. Antiseptic
62 : G2.5"	5. Li Battery
76 : G3"	
102 : G4"	
Diagram Type	
Blank : Single Diaphragm	
S : Dual Diaphragm	

Installation Drawing



Y Series

Specification

DMFY25(G1")



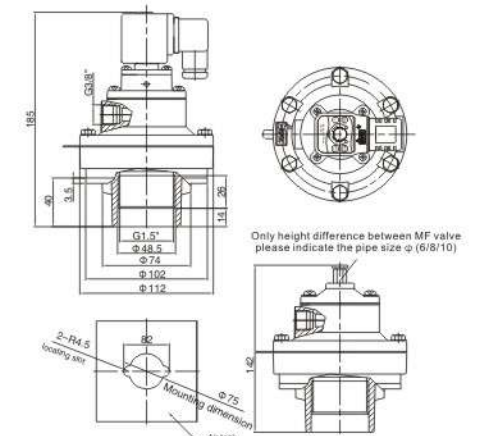
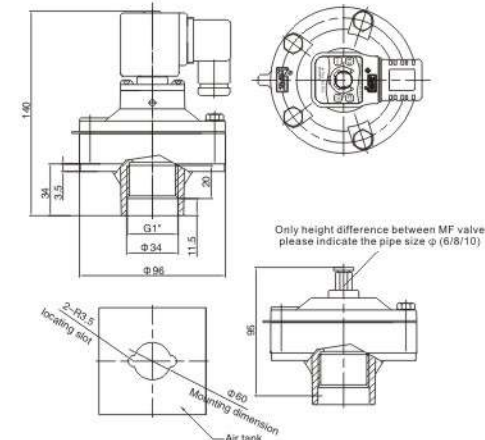
DMFY40S(G1 1/2")



MFY25(G1")



MFY40S(G1 1/2")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ96

Φ112

Air inlet/Outlet size

G1"

G1 1/2"

Weight(kg)

0.8

1.2

Note: In installation, pulse valves have the same center distances as that of pulse valves.

Specification

Y Series

DMFY50S(2")



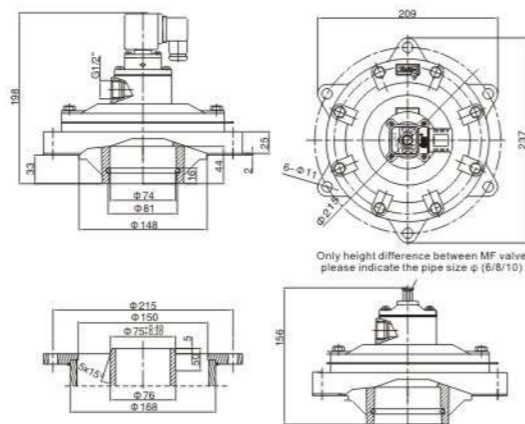
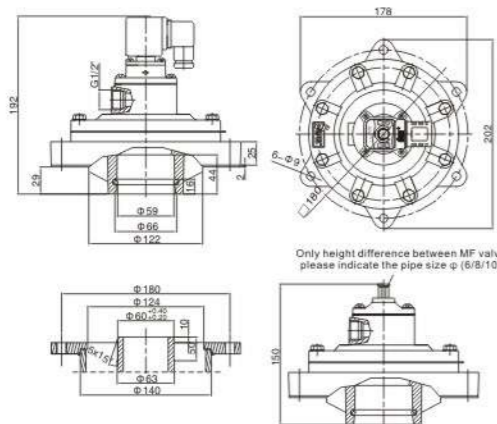
DMFY62S(2 1/2")



MFY50S(2")



MFY62S(2 1/2")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 160

Air inlet/Outlet size

Φ 60

Weight(kg)

2.5

Φ 188

Φ 75

3.0

Specification

Y Series

DMFY76S(3")



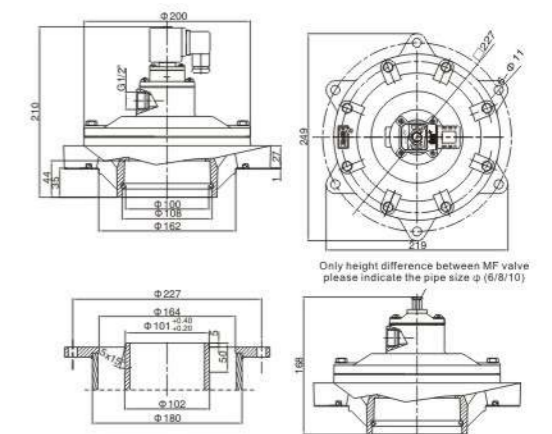
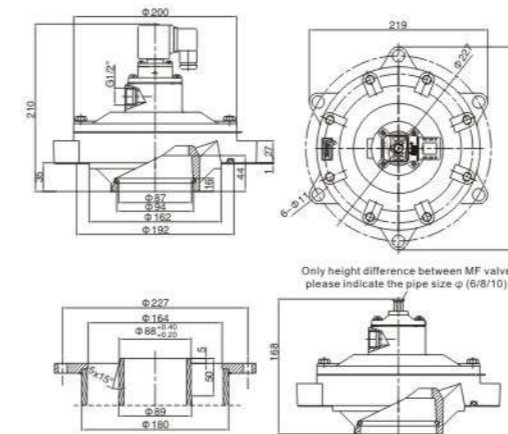
DMFY90S(3 1/2")



MFY76S(3")



MFY90S(3 1/2")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 202

Air inlet/Outlet size

Φ 89

Weight(kg)

3.7

Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 204

Air inlet/Outlet size

Φ 102

Weight(kg)

3.3

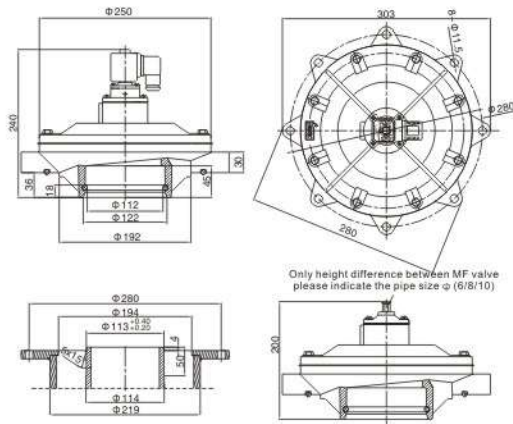
Specification

Y Series

DMFY102S(4")



MFY102S(4")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 255

Air inlet/Outlet size

Φ 114

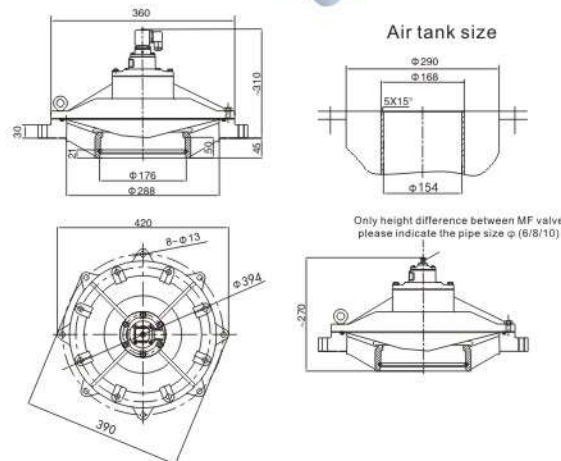
Weight(kg)

5.65

DMFY150(6")



MFY150(6")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 365

Air inlet/Outlet size

Φ 168

Weight(kg)

19

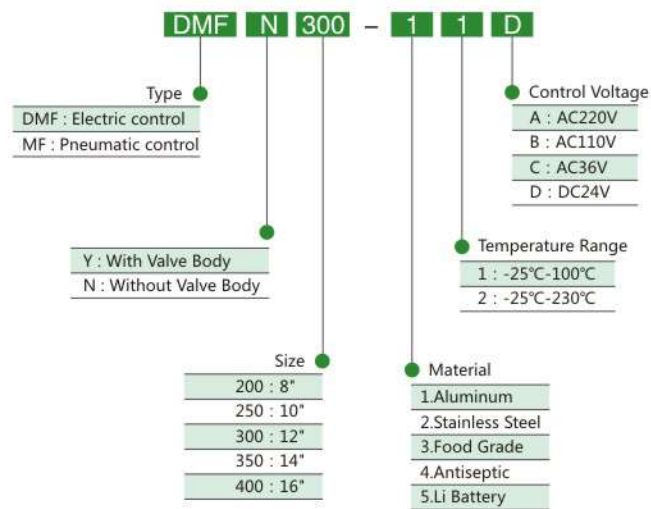
8"-16" Large-diameter Pulse Valve

- Specially developed for rotary blowing technology.
- For each large valve, pressure test was done and test curve chart attached.
- Great switching performance. reducing unnecessary air loss and cutting down the operating costs.

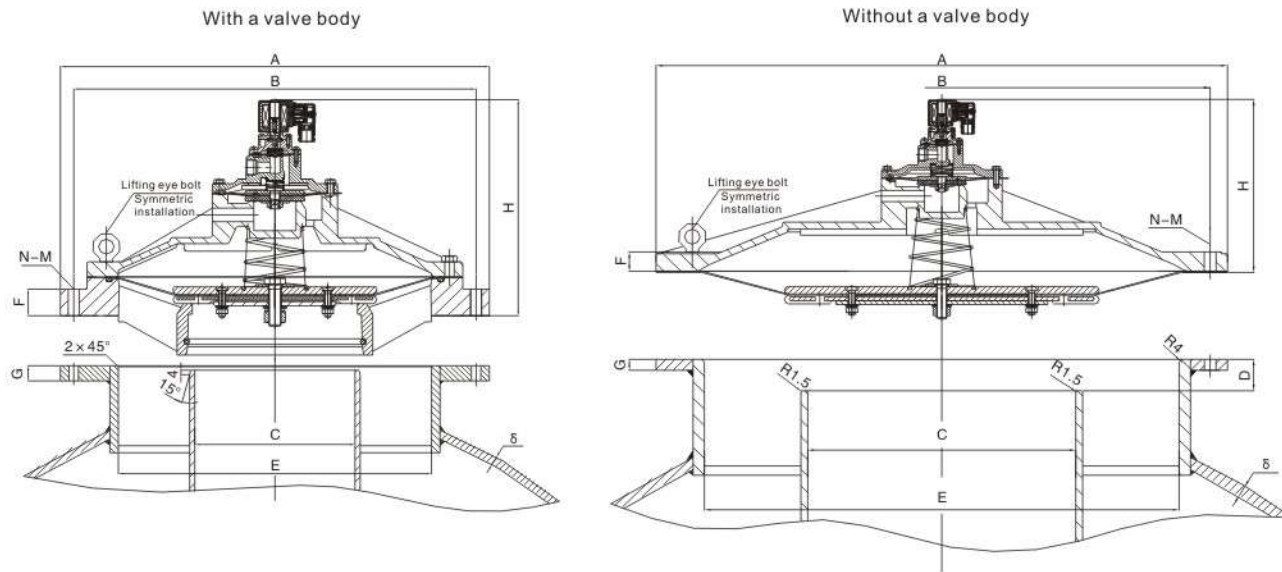


DMF-N
DMF-Y

Type Definition



Type Specification



DMF-N
DMF-Y

DMF-N
DMF-Y

Name	Model	Volume of tank (m ³)	Specification		Mounting dimension							Designed as tank* G (reference)	H		Coupling bolt		Weight (kg)
			British	Metric	A	B	Pipe Dia	C	D	E	F		Without body	With body	N	M	
pulse valves for rotating pulse bag filter (Big valve)	DMFN200	2~2.4	8"	φ 200	φ 482	φ 456	inner	φ 205	34 ± 0.5	φ 404	22	24	250		12	M10	14.5
	DMFY200				548	φ 514	outer	φ 219	10 ± 0.5						35	10	M12
	DMFN250	2.4~3	10"	φ 250	φ 600	φ 558	inner	φ 259	38 ± 0.5	φ 512	22	26	250		16	M12	19
					outer	φ 273											
	DMFN300	2.7~3.5	12"	φ 300	φ 730	φ 680	inner	φ 309	46 ± 0.5	φ 600	23	26	270		16	M16	34.5
					outer	φ 325											
	DMFN350	3.1~4	14"	φ 350	φ 840	φ 780	inner	φ 359	54 ± 0.5	φ 700	26	26	280		20	M20	47
					outer	φ 377											
	DMFN400	3.5~5	16"	φ 400	φ 890	φ 836	inner	φ 406	60 ± 0.5	φ 760	30	26	290		20	M20	53.5
					outer	φ 426											

*Dimension for reference only

Type Specification

No.	Type Specification	Nominal diameter	Diaphragm	Blowing capacity(0.1MPa,pulse width 200ms)
1	DMF — Y/N-200(8")	200	3	2NM□(in standard conditions)
2	DMF — N-250(10")	250	3	2.4NM□(in standard conditions)
3	DMF — N-300(12")	300	3	2.7NM□(in standard conditions)
4	DMF — N-350(14")	350	3	3.1NM□(in standard conditions)
5	DMF — N-400(16")	400	3	3.5NM□(in standard conditions)

Technical Specifications

Operating pressure	0.05MPa~0.15MPa
Air source medium	Clean air
Protection grade	IP65
Voltage	DC24V, AC220V, AC110 V
Temperature	-25°C~120°C
Ambient temperature	-10°C~50°C
Diaphragm life	One million blows or 5 years

Technical Features

- Large-diameter pulse valves specially developed for rotary blowing technology.
- Complete specifications.
- Two options for structure: one with pulse valve body and the other without.
- Advanced testing devices are provided.
- Achieve the best bowing effect based on their perfect flow capacity and small pressure losses.
- Great switching performance, reducing unnecessary air loss and reducing the operating costs.
- Large valve diaphragm components of different models can be customized.
- Use imported qualified finished diaphragms and have structure design related patents and constant commitment of one million blows.
- For each product delivered, a blowing test was done and test report attached.



Straight- Through Type

T Series

DMF/MF-T

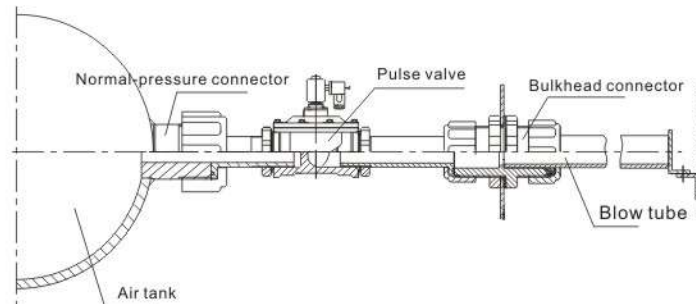
Inclined angle between air inlet and outlet is 180° (the center line of the air inlet and outlet on same straight line). The air inlets connecting with cylinders, the air outlets connecting with the blow tubes. With smooth air flow, It can provide an efficient, dust-cleaning.



Type Definition

DMF	T	40	S	-	1	1	D
Type	Straight through	Size	Control Voltage		Temperature Range	Material	Diagram Type
DMF : Electric control MF : Pneumatic control		20 : G3/4" 25 : G1" 40 : G1.5" 50 : G2" 62 : G2.5"	A : AC220V B : AC110V C : AC36V D : DC24V		1 : -25°C-100°C 2 : -25°C-230°C	1.Aluminum 2.Stainless Steel 3.Food Grade 4.Antiseptic 5.Li Battery	Blank : Single Diaphragm S: Dual Diaphragm

Installation Drawing

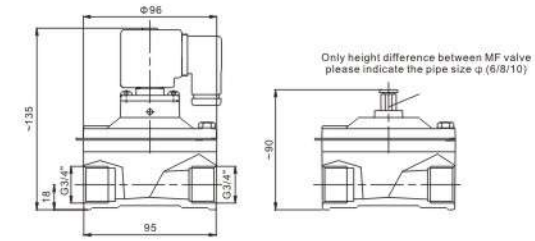


Specification

DMFT20(G3/4")



MFT20(G3/4")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 96

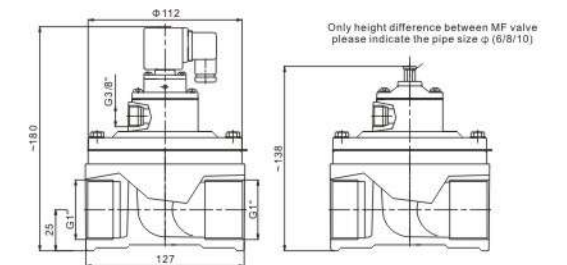
Air inlet/Outlet size G³/₄" G³/₄"

Weight(kg) 0.8

DMFT25S(G1")



MFT25S(G1")



Φ 112

G1" G1"

1.4

Specification

T Series

DMFT40S(G1 1/2")



DMFT50S(G2")



DMFT62S(G2 1/2")



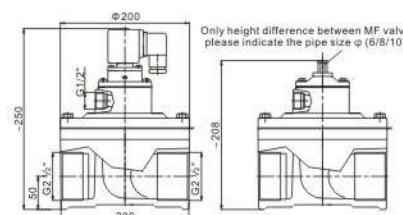
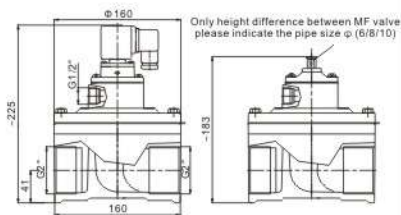
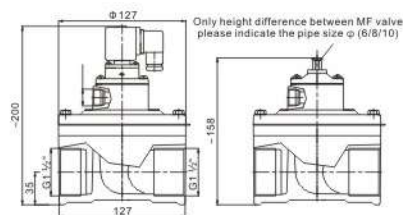
MFT40S(G1 1/2")



MFT50S(G2")



MFT62S(G2 1/2")



Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 127	Φ 160	Φ 200
Air inlet/Outlet size	G1 1/2" * G1 1/2"	G2" * G2"	G2 1/2" * G2 1/2"
Weight(kg)	1.8	2.8	4.1

Piston Valve

DMF-H-76

- Piston valve is quick acting with high efficiency
- With "PTFE" anticorrosion (additional)
- Compacted valve to reduce space with big air flow minimum pitch between valves 155 mm.
- Great performance and high efficiency suitable to clean filter bag up to 12 meters



DMF-H

Type Definition

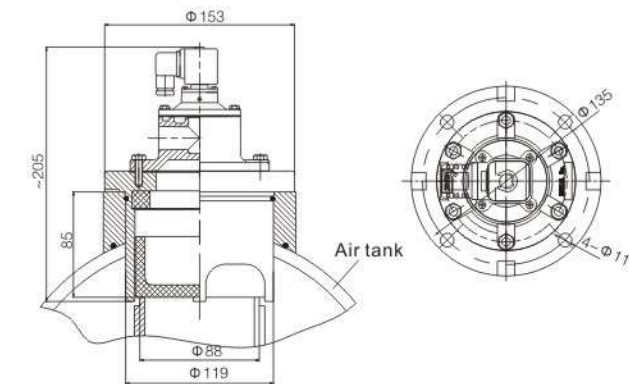
DMF H 76 - 1 1 D

- Type
 - DMF : Electric control
 - MF : Pneumatic control
- 活塞式
- Size
 - 76 : 3"
- Control Voltage
 - A : AC220V
 - B : AC110V
 - C : AC36V
 - D : DC24V
- Temperature Range
 - 1 : -25°C-100°C
 - 2 : -25°C-230°C
- Material
 - 1.Aluminum
 - 2.Stainless Steel
 - 3.Food Grade
 - 4.Antiseptic
 - 5.Li Battery

Installation

DMF-H-76

Be able to replace imported similar products completely




Technical Specifications

Working pressure	0.1Mpa~0.7Mpa		
Ambient temperature	-15S°C+80°C		
Air medium	Clean air		
Ingress protection rating	IP65		
Valve body material	Aluminum casting alloy+ PTFE		
Bonnet material	Aluminum die-cast alloy+ PTFE		
Piston material	PA		
Guide pipe material	Stainless steel		
Armature material	Stainless steel		
Fastener material	Stainless steel		
Voltage	50~60Hz (see table below for details)		
	Suction VA	Sustaining VA	Power
DC24V (Standard)	-	-	24W
AC220~AC240V	28.6VA	13.2VA	6.6W
AC110V	28.6VA	13.2VA	6.6W

Operation Requirements

Piston valves must be used under the conditions allowed so as to ensure safe and reliable performance. Otherwise, users are responsible for the damages or injuries that are caused due to the use conditions changed by users.

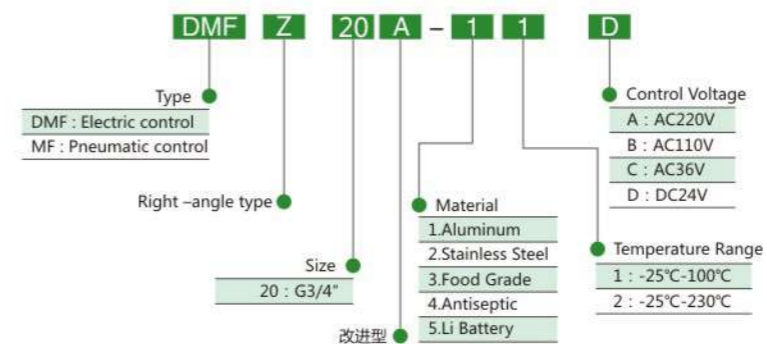
- Ensure piping system clean, air tank without rust, welding, slag or debris.
- The coil surface temperature will up to 120°C after continuous working.
- Ensure the flange surface smooth and correct mounting dimension.
- Before mounting, ensure the power has cut off.
- The AC solenoid coil will be burnt if remove the guide component or armature.

Electrical Connection

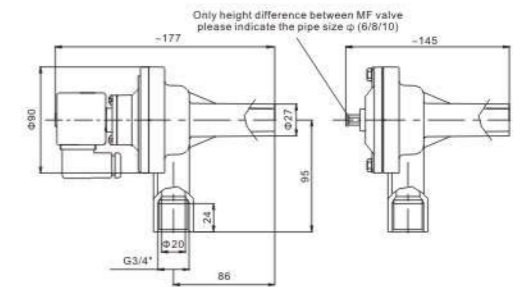
The connection of electromagnetic coils shall comply with the electrical rules. Ensure the cable entry is properly sealed. Ensure the polarities of terminal flag+ and - are correct. Pins labeled with “*” are for grounding. If there are no labels, then the supply cables can be connected to any one of the end.

Right-angle Modification Type
DMF/MF-Z20A

Change the output port from thread connection to pipe connection.

Type Definition


Z Series

Specification
DMFZ20A(G3/4")

MFZ20A(G3/4")


Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 90
--	------

Air inlet/Outlet size	G ³ / ₄ " Φ 27
-----------------------	--------------------------------------

Weight(kg)	0.75
------------	------



Z Series

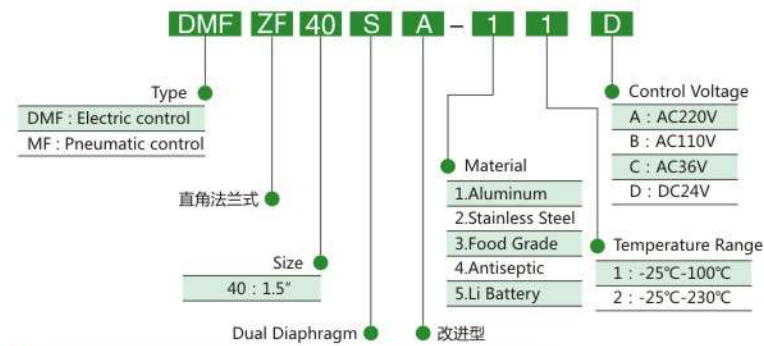
Right-angle Flange Modification Type

DMF/MF-ZF40A

Change output port to soft tube connection, easy to adjustment during installation

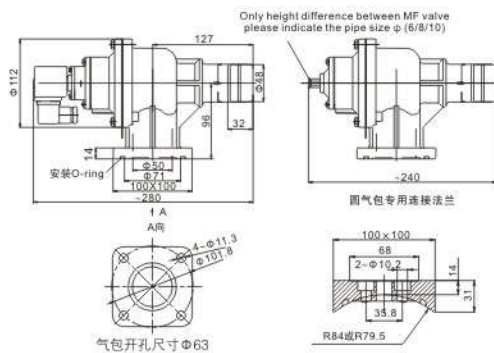


Type Definition



Specification

DMFZF40SA(1 1/2")



MFZF40SA(1 1/2")



Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 112
Air inlet/Outlet size	Φ 48 Φ 48
Weight(kg)	1.6



Y Series

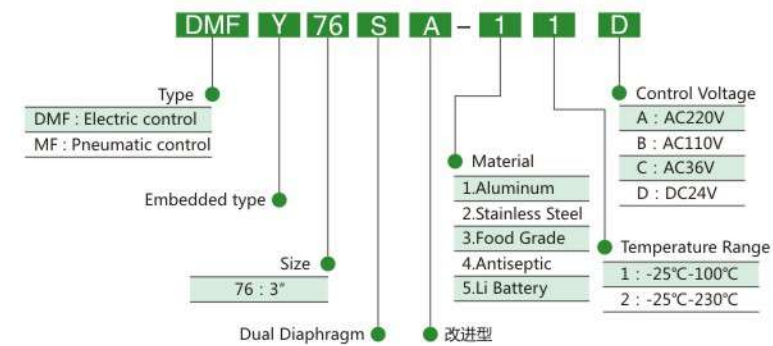
Compact Embedded Modification Type

DMF/MF-Y76SA

Save the installation space compared with standard embedded type

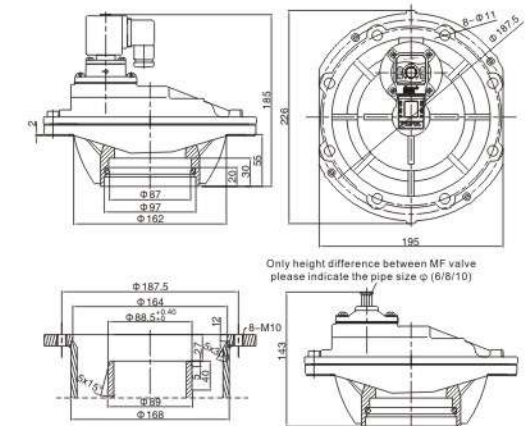


Type Definition



Specification

DMFY76SA(3")



MFY76SA (3")



Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 195
Air inlet/Outlet size	Φ 89
Weight(kg)	2.9



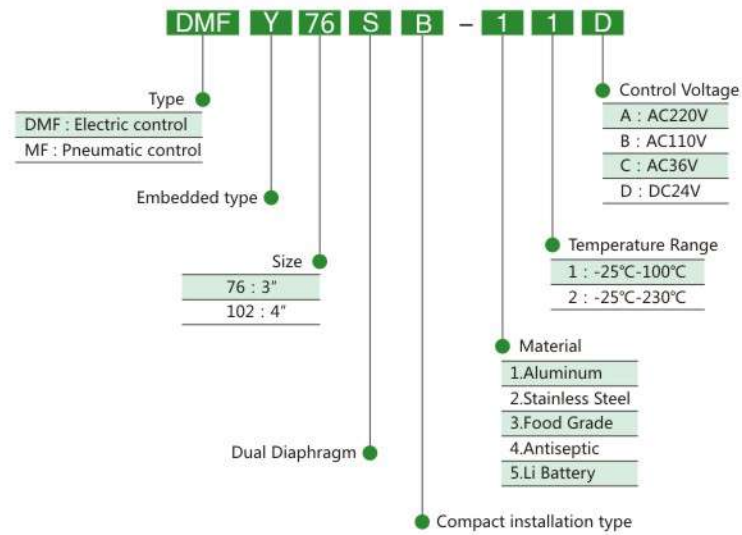
Compact Embedded Modification Type

DMF/MF-Y76SB

Y Series



Type Definition



Y Series

Specification

DMFY76SB(3")



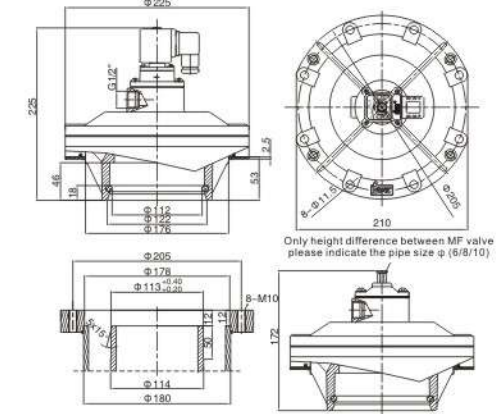
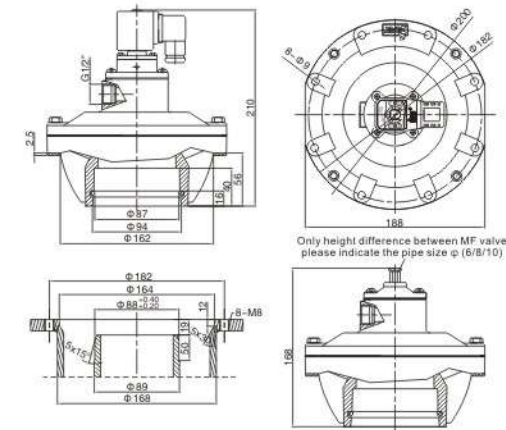
DMFY102SB(4")



MFY76SB(3")



MFY102SB(4")



Diaphragm diameter (big diaphragm)
For Dual-diaphragm, all of the small diaphragm diameter against 66mm

Φ 202

Φ 225

Air inlet/Outlet size

Φ 89

Φ 114

Weight(kg)

2.95

5.0



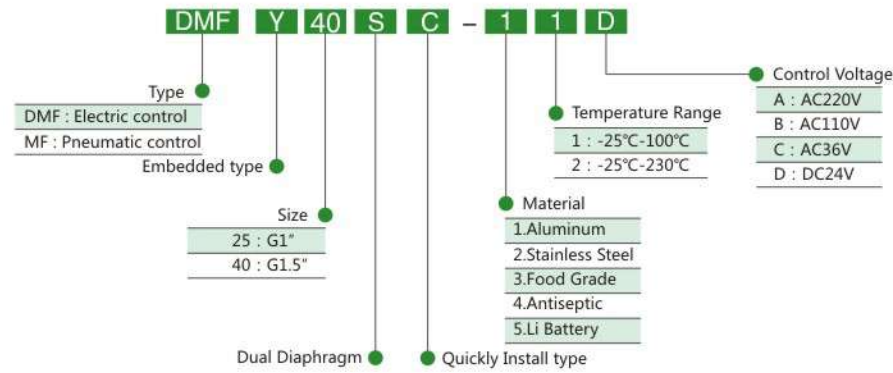
Y Series

Install Quickly Embedded Type

DMF/MF-Y40SC

Same type with "Y" series
install quickly feature
only need hole on air tank
No need welding flange

Type Definition

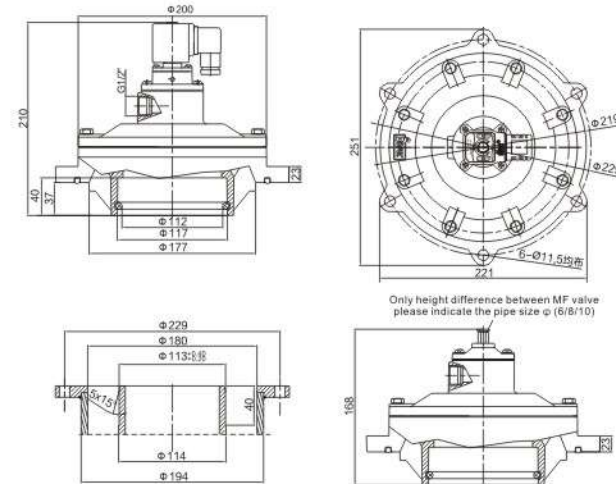


Specification

DMFY102SC(4")



MFY102SC(4")



Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 204
Air inlet/Outlet size	Φ 114
Weight(kg)	3.5



Y Series

Specification

DMFY25C(G1")



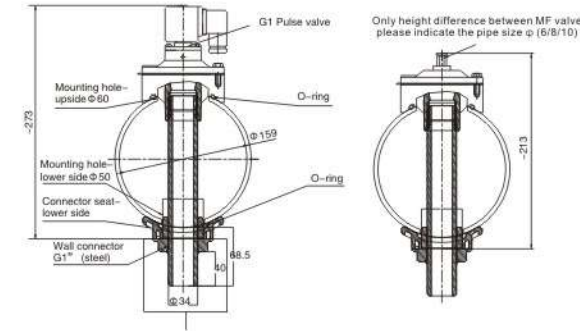
MFY25C(G1")



DMFY40SC(G1 1/2")

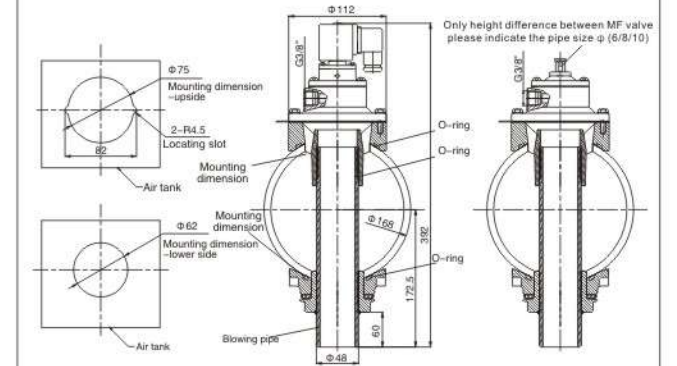


MFY40SC(G1 1/2")



The connecting pipe can be customized according to the requirements .

Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 96
Air inlet/Outlet size	Φ 34
Weight(kg)	2.2



The connecting pipe can be customized according to the requirements .

Diaphragm diameter (big diaphragm) For Dual-diaphragm, all of the small diaphragm diameter against 66mm	Φ 112
Air inlet/Outlet size	Φ 48
Weight(kg)	3

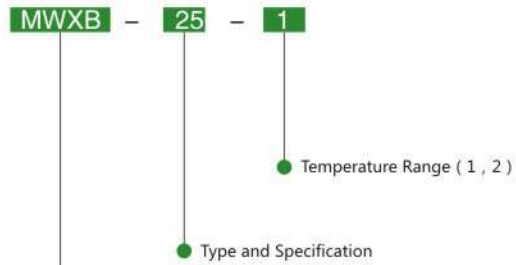
Note: The wall connector is the optional accessories, Teflon tape is necessary on the thread area when mounting the wall connector.

Diaphragm Spare parts Kit

Diaphragm spare parts kit include small & big diaphragm , small & big spring .



Type Definition



list	Size			
Spare Parts Kit	MWXB	Diaphragm Spare parts Kit	MWXB	Diaphragm Spare parts Kit
Type and Specification	20	RZ type 3/4" diaphragm	62	Y & Z type 2.5" diaphragm
	A20	Z type modification 3/4" diaphragm	T62	T type 2.5" diaphragm
	T20	T type 3/4" diaphragm	76	Y & Z type 3" diaphragm
	25	Y & Z type 1" diaphragm	A76	YA modification 3" diaphragm
	T25	T type 1" diaphragm	B76	YB modification 3" diaphragm
	40	Y & Z type 1.5" diaphragm	90	Y type 3.5" diaphragm
	T40	T type 1.5" diaphragm	102	Y & Z type 4" diaphragm
	50	Y & Z type 2" diaphragm	B102	YB modification 4" diaphragm
T50	T type 2" diaphragm	C102	YC modification 4" diaphragm	

Note : Z type include of Z, ZM, ZF series ; Y type include of Y and YC series



Common faults and troubleshooting of pulse valve

Use stage	Symptoms	Cause analysis	Exclusion method
Installation and commissioning	All valves cannot be opened, but the pilot part acts	Check whether the air bag pressure is too low	Check for air leakage
	Some valves do not work, others are normal	Check the circuit connection and coil of the valve	Replace accessories
	All valves cannot be closed, there is air leakage, and the pressure of the air bag cannot be established	The air inlet of the valve is installed opposite to the injection port	Reinstall
	Some valves can not be closed and have air leakage	There are impurities adsorbed on the diaphragm, and the moving iron core is stuck	Clean the diaphragm, check whether the diaphragm is complete, check the moving iron core and air plug
During use	The valve closes slowly	Diaphragm orifice blocked	Dredge diaphragm orifice
	Some valves leak, the diaphragm cannot be closed, and the valve is normally open	There are impurities adsorbed on the diaphragm, the pilot is damaged, and the moving iron core is stuck	Clean the diaphragm, check whether the diaphragm is complete, check the moving iron core and plug, and replace the accessories in time
	Coil heating and burning	Power on for a long time	Check the operation of the control system
	There is voltage, but the valve does not act	The diaphragm is damaged or the orifice is blocked	Replace accessories in time
	The ambient temperature is low, and the valve leaks or cannot be opened	The ambient temperature is too low, and there is ice in the valve	Pay attention to heat preservation

Pulse Controller

The pulse controller is the main piece of control equipment in the pulse dust cleaning system of the pulse bag-house. Output signals control the electromagnetic pulse valves to blow and inject compressed air to remove dust from the filter-bag in sequence to keep the running resistance of the bag-house within the set range, guaranteeing the high processing ability and dust-collecting efficiency of the bag-house.



PULSE CONTROLLER

Selection Table

Model Function	Performance	3CSA	4CSA	5CSA	5CSB	6CS
Time	Pulse width(ms)	10-990	10-990	10-990	10-999	10-2500
	Pulse interval(sec)	1-99	1-99	1-99	1-999	1-250
	Cycle interval(sec)	---	---	---	---	0-59
	Cycle interval(min)	0-99	0-99	0-99	0-9990	0-59
	Cycle interval(hour)	---	---	---	---	0-59
Operation	Parameter set	Function key	Function key	Function key	Function key	Function key
	Display	Nixie tube(LED)	Nixie tube	Nixie tube	Nixie tube	Nixie tube
Digits	Operating	In the box	In the box	In the box	In the box	Box external
	Maximum digits	100	72	100	100	28
Control	Digits adjust	Pin	Pin	Pin	Pin	Parameter
	Manual	Combined	Combined	Combined	Combined	Independent
	Online	√	√	√	√	√
	Offline	---	---	---	---	Single electronic control
Start/stop mode	Differential pressure	External	External	External	External	External
	Times of start	---	---	---	---	√
	Start delay	---	---	---	---	---
	Times of stop	---	---	---	---	√
	Stop delay	---	---	---	---	√
	Remote control	√	√	√	√	√
	Alam	Open circuit	---	---	---	---
Short circuit		---	---	---	---	√
Differential pressure		---	---	---	---	√
Limit		---	---	---	---	√
Output	Shielding	---	---	---	---	√
	Substitute	---	---	---	---	√
	Standby	---	---	---	---	√
Enclosure	Material	Plastic	Aluminum alloy	Plastic	Plastic	Aluminum alloy
	Protection	---	IP65	IP65	IP65	IP65
	Installation	Backing plate	Backing plate	Backing plate	Backing plate	Backing plate

Definition

- (1) Online mode: only control the electromagnetic pulse valve.
- (2) Off-line mode: in small or air box pulse bag type dust collector, control poppet valve (cylinder or valve) and electromagnetic pulse valve.
- (3) Time mode: to cycle interval delay as the control mode and control instrument.
- (4) The differential pressure mode: according to the differential pressure as the control instrument.
- (5) Start/stop mode:

Times of Start: the contact (stop/run) is closed; the controller will shut down after several cycles.

Start Delay: the contact (stop/run) is closed; the controller will start after the delayed time.

Times of stop: the contact (stop/run) is open; the controller will shut down after several cycles.

Stop Delay: the contact (stop/run) is open; the controller will stop after the delayed time.



PULSE CONTROLLER

6CSD	6CSE (6CS/6CSD digits expansion)	6CSA	6CSA(E) (6CSA digits expansion)	7CS	8CS
10-2500	---	10-1000	---	10-5000	30-9990
1-250	---	1-600	---	1-999	0-6000
0-59	---	---	---	0-59	---
0-59	---	0-200	---	0-59	0-6000
0-59	---	---	---	0-99	---
Function key	---	Function key	---	Function key	Function key/LCD screen (optional)
Nixie tube	---	Nixie tube	---	Nixie tube	Nixie tube
Box external	---	Box external	---	Box external	Box external
28	60	32	56	20	200
Parameter	---	Parameter	---	Parameter	Parameter
Independent	---	Combined	---	Independent	Independent
√	---	√	---	√	√
Single electronic control	---	Single electronic control	---	---	√
Internal	---	External	---	---	√
√	---	---	---	---	---
---	---	√	---	---	√
√	---	---	---	---	---
√	---	---	---	---	---
√	---	---	---	---	√
√	---	---	---	---	---
√	---	---	---	---	√
Aluminum alloy	Aluminum alloy	Aluminum alloy	Aluminum alloy	Plastic	Aluminum alloy
IP65	IP65	IP65	IP65	IP65	IP65
Backing plate	Backing plate	Backing plate	Backing plate	Panel	Backing plate

Pulse Controller III

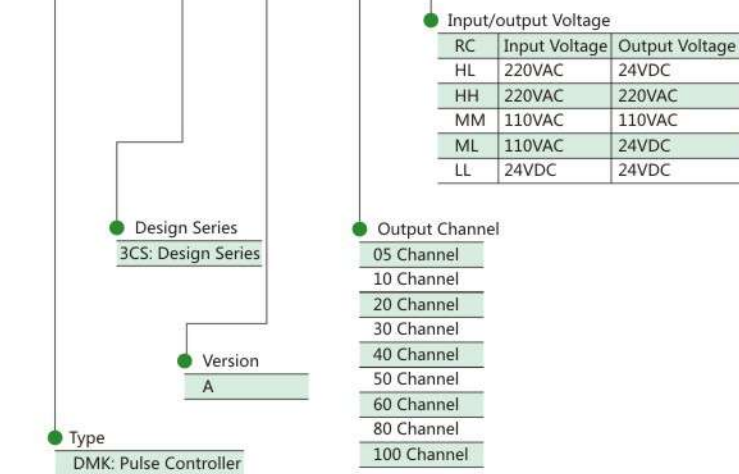
The pulse controller employs an MCU for its core control over key parameter setup, digital display, cycle interval, pulse interval and pulse duration. It controls dust cleaning according to the "Stop/Run" signal. The output terminals control opening of the electromagnetic pulse valve, then compressed air starts to blow for dust cleaning and the blowing sequence is displayed by an LED. The pulse controller has complete functions and easy to operate.

- Online and time mode.
- Remote or differential pressure controlling mode.

Note :24VDC input/output type , the maximum output channel is 30.

Type Definition

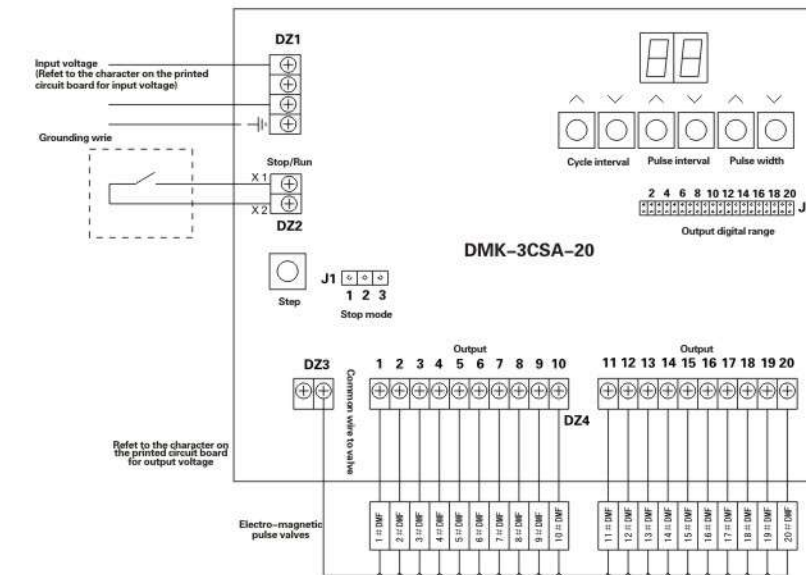
DMK - 3CS A - 20 - HH



Technical Specifications

Input voltage	AC220V(1 ± 10%)50HZ-60HZ(or another specification)
Output voltage	DC24V(or another specification)
Rated output current	1A
Power consumption	≤8W
Pulse width	0.01~0.99sec
Pulse Interval	1~99sec
Cycle interval	0~99min
Control signal	Contact Switch
Working environment	-25℃~+55℃ Relative humidity < 85%; No serious corrosive gases, conductive dust, violent vibration or impact.

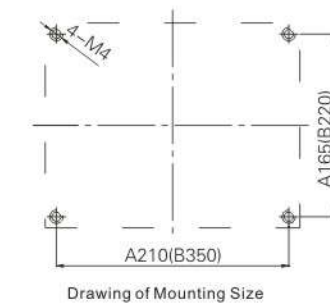
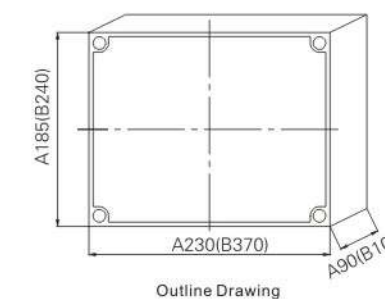
Wiring diagram



Type Specification

Type	Output digits	Number of controlling electromagnetic valves	Size(L×W×H) A=230×185×90mm B=370×240×102mm
DMK-3CSA-5	5	1~5 Optional	A
DMK-3CSA-10	10	1~10 Optional	A
DMK-3CSA-20	20	11~20 Optional	A
DMK-3CSA-30	30	11~30 Optional	A
DMK-3CSA-40	40	31~40 Optional	B
DMK-3CSA-50	50	41~50 Optional	B
DMK-3CSA-60	60	51~60 Optional	B
DMK-3CSA-80	80	71~80 Optional	B
DMK-3CSA-100	100	91~100 Optional	B

Installation Drawing



Pulse Controller IV

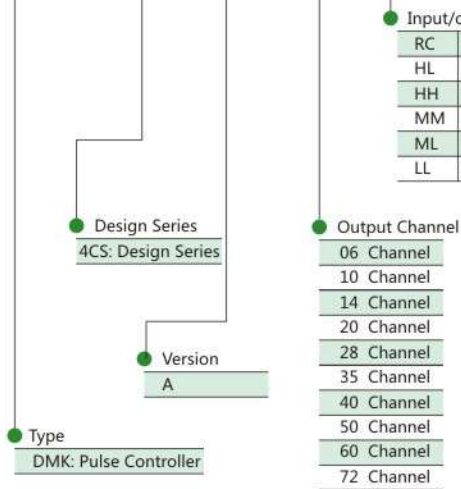
The pulse controller employs an MCU for its core control over key parameter setup, digital display, cycle interval, pulse interval and pulse duration. It controls dust cleaning according to the "Stop/Run" signal. The output terminals control opening of the electromagnetic pulse valve, then compressed air starts to blow for dust cleaning and the blowing sequence is displayed by an LED. The pulse controller has complete functions and easy to operate.

- Online and time mode.
- Remote or differential pressure controlling mode.
- Aluminum alloy housing can be used under any tough condition.

Note : 1.24VDC input/output type , the maximum output channel is 10.
2.220VAC input/output type , the maximum output channel is 28.

Type Definition

DMK - 4CS A - 06 - HH



RC	Input Voltage	Output Voltage
HL	220VAC	24VDC
HH	220VAC	220VAC
MM	110VAC	110VAC
ML	110VAC	24VDC
LL	24VDC	24VDC

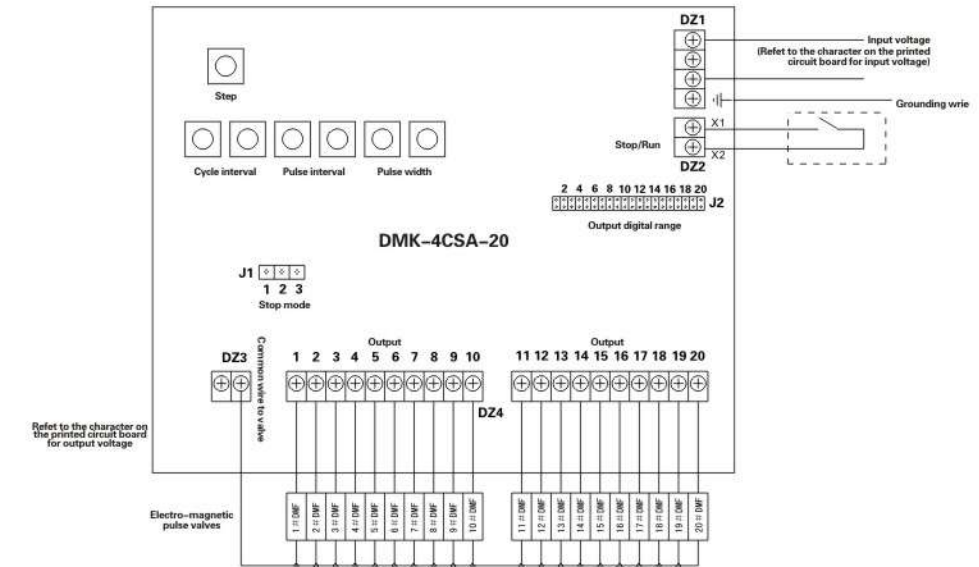
Output Channel
06 Channel
10 Channel
14 Channel
20 Channel
28 Channel
35 Channel
40 Channel
50 Channel
60 Channel
72 Channel



Technical Specifications

Input voltage	AC220V(1 ± 10%)50HZ-60HZ (or another specification)
Output voltage	DC24V(or another specification)
Rated output current	1A
Power consumption	≤8W(both the duration and interval of the pulse are within the relevant rated ranges)
Pulse width	0.01~0.99sec
Pulse Interval	1~99sec
Cycle interval	0~99min
Control signal	Contact Switch
Working environment	-25°C~+55°C Relative humidity < 85% ; No serious corrosive gases, conductive dust, violent vibration or impact.

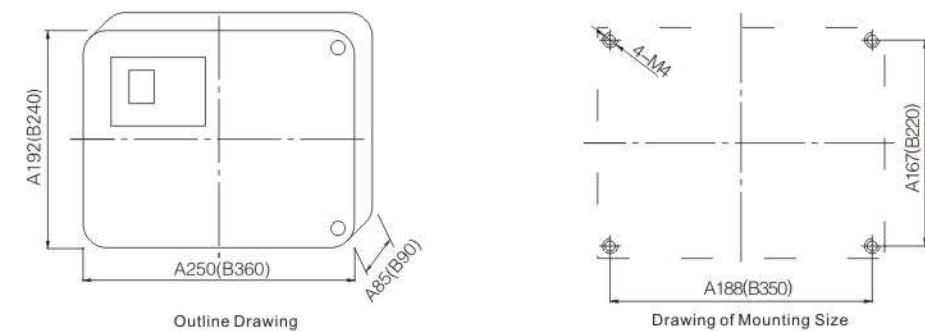
Wiring diagram



Type Specification

Type	Output digits	Number of controlling electromagnetic valves	Size(L×W×H) A=250×192×85mm B=360×240×90mm
DMK-4CSA-6	6	1~6 Optional	A
DMK-4CSA-10	10	1~10 Optional	A
DMK-4CSA-14	14	9~14 Optional	A
DMK-4CSA-16	16	9~16 Optional	A
DMK-4CSA-20	20	9~20 Optional	A
DMK-4CSA-25	25	9~25 Optional	A
DMK-4CSA-28	28	9~28 Optional	A
DMK-4CSA-35	35	25~38 Optional	B
DMK-4CSA-40	40	25~40 Optional	B
DMK-4CSA-50	50	30~50 Optional	B
DMK-4CSA-60	60	40~60 Optional	B
DMK-4CSA-72	72	50~72 Optional	B

Installation Drawing



Pulse Controller V

The pulse controller employs an MCU for its core control over key parameter setup, digital display, cycle interval, pulse interval and pulse duration. It controls dust cleaning according to the "Stop/Run" signal. The output terminals control opening of the electromagnetic pulse valve, then compressed air starts to blow for dust cleaning and the blowing sequence is displayed by an LED. The pulse controller has complete functions and easy to operate.

- Online and time mode.
- Remote or differential pressure controlling mode.

Note : 1.24VDC input/output type , the maximum output channel is 30



Type Definition

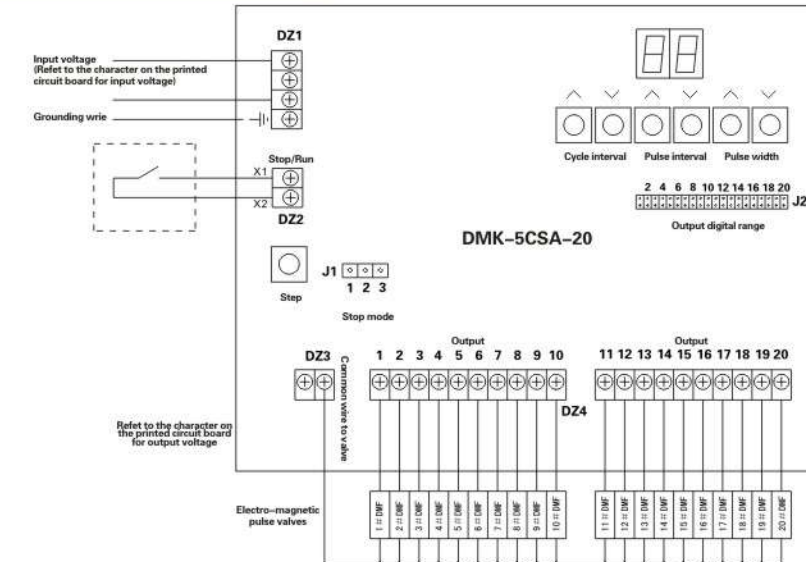
DMK - 5CS A - 06 - HH

DMK	-	5CS	A	-	06	-	HH
Design Series		Output Channel		Input/output Voltage		Type	
5CS: Design Series		06 Channel		RC 220VAC 24VDC		DMK: Pulse Controller	
Version		08 Channel		HL 220VAC 24VDC			
A		10 Channel		HH 220VAC 220VAC			
		15 Channel		MM 110VAC 110VAC			
		20 Channel		ML 110VAC 24VDC			
		25 Channel		LL 24VDC 24VDC			
		30 Channel					
		35 Channel					
		40 Channel					
		50 Channel					
		60 Channel					
		70 Channel					
		80 Channel					
		100 Channel					

Technical Specifications

Input voltage	AC220V(1 ± 10%)50HZ-60HZ(or another specification)
Output voltage	DC24V(or another specification)
Rated output current	1A
Power consumption	≤8W
Pulse width	0.01~0.99sec
Pulse Intenal	1~99sec
Cycle interval	0~99min
Control signal	Contact Swtich
Working environment	-25°C~+55°C Relative humidity < 85%; No serious corrosive gases, conductive dust, violent vibration or impact.

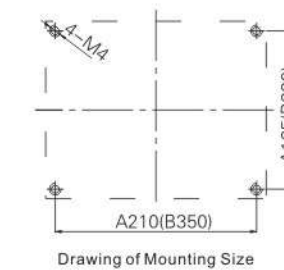
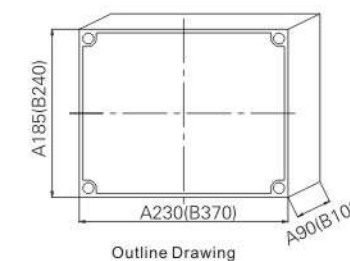
Wiring diagram



Type Specification

Type	Output digits	Number of controlling electromagnetic valves	Size(L×W×H) A=230×185×90mm B=370×240×102mm
DMK-5CSA-6	6	1-6 Optional	A
DMK-5CSA-8	8	1-8 Optional	A
DMK-5CSA-10	10	1-10 Optional	A
DMK-5CSA-12	12	1-12 Optional	A
DMK-5CSA-15	15	11-15 Optional	A
DMK-5CSA-20	20	11-20 Optional	A
DMK-5CSA-25	25	11-25 Optional	A
DMK-5CSA-30	30	11-30 Optional	A
DMK-5CSA-35	35	31-35 Optional	B
DMK-5CSA-40	40	31-40 Optional	B
DMK-5CSA-50	50	41-50 Optional	B
DMK-5CSA-60	60	51-60 Optional	B
DMK-5CSA-70	70	61-70 Optional	B
DMK-5CSA-80	80	71-80 Optional	B
DMK-5CSA-100	100	91-100 Optional	B

Installation Drawing



Pulse Controller V

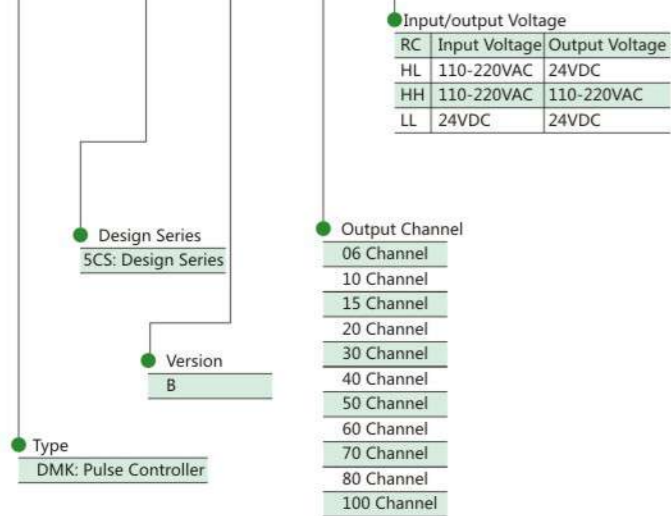
The pulse controller employs an MCU for its core control over key parameter setup, digital display, cycle interval, pulse interval and pulse duration. It controls dust cleaning according to the "Stop/Run" signal. The output terminals control opening of the electromagnetic pulse valve, then compressed air starts to blow for dust cleaning and the blowing sequence is displayed by an LED. The pulse controller has complete functions and easy to operate.

- Online and time mode
- Remote and differential pressure control mode
- Running status output

DMK
5CS

Type Definition

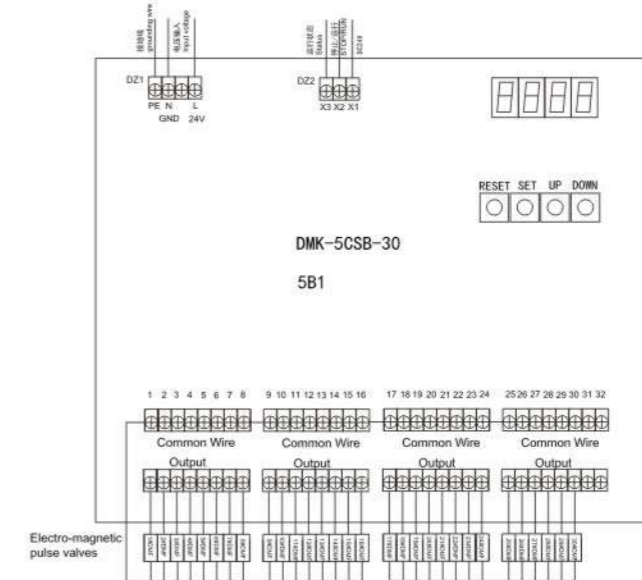
DMK - 5CS B - 20 - HL



Technical Specifications

Input voltage	110-220VAC(1 ± 10%)50-60HZ,(or another specification)
Output voltage	DC24V(or another specification)
Rated output current	1A(DC24V)
Power consumption	≤8W
Pulse width	10~9999sec
Pulse Interval	1~999sec
Cycle interval	1~9990min
Control signal	Contact Switch
Working environment	-25°C~+55°C Relative humidity < 85%; No serious corrosive gases, conductive dust, violent vibration or impact.

Wiring diagram

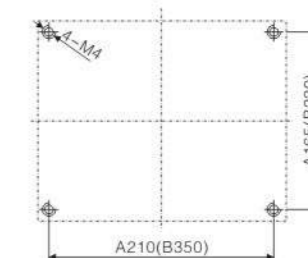
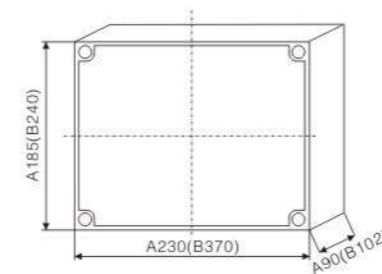


DMK
5CS

Type Specification

Type	Output digits	Number of controlling electromagnetic valves	Size(L×W×H) A=230×185×90mm B=370×240×102mm
DMK-5CSB-6	6	1-6 Optional	A
DMK-5CSB-10	10	1-10 Optional	A
DMK-5CSB-15	15	1-15 Optional	A
DMK-5CSB-20	20	1-20 Optional	A
DMK-5CSB-30	30	1-30 Optional	A
DMK-5CSB-40	40	1-40 Optional	B
DMK-5CSB-50	50	1-50 Optional	B
DMK-5CSB-60	60	1-60 Optional	B
DMK-5CSB-70	70	1-70 Optional	B
DMK-5CSB-80	80	1-80 Optional	B
DMK-5CSB-100	100	1-100 Optional	B

Installation Drawing



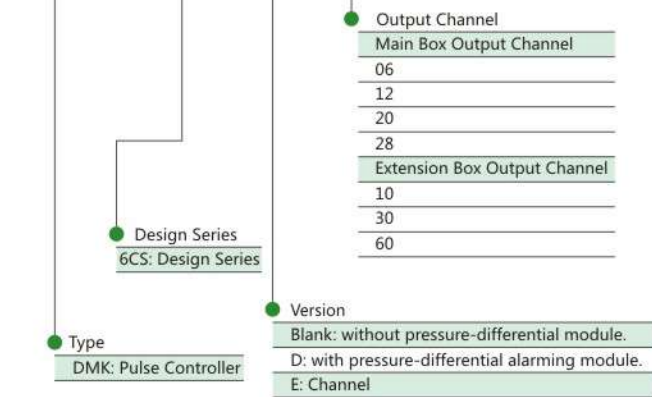
Pulse Controller VI

The pulse controller employs an SCM for its core control and its interior is integrated with a differential pressure transducer. Viewed from its functions, it can realize online control, control, fixed-time control, differential pressure control, alarm enquiry display and alarm signal output. with an aluminum alloy housing, it can work under various working conditions.

- Different modes including on-line, off-line, timed or pressure-differential for option.
- Shutdown after N times of blowing (or delay) following startup signal and stop signal.
- The shielding, replacement and stand-by services for the output point.
- With short circuit, open circuit, limiting and pressure-differential alarm control.
- Records about fault query as well as highest and lowest pressure differences.

Type Definition

DMK - 6CS D - 08

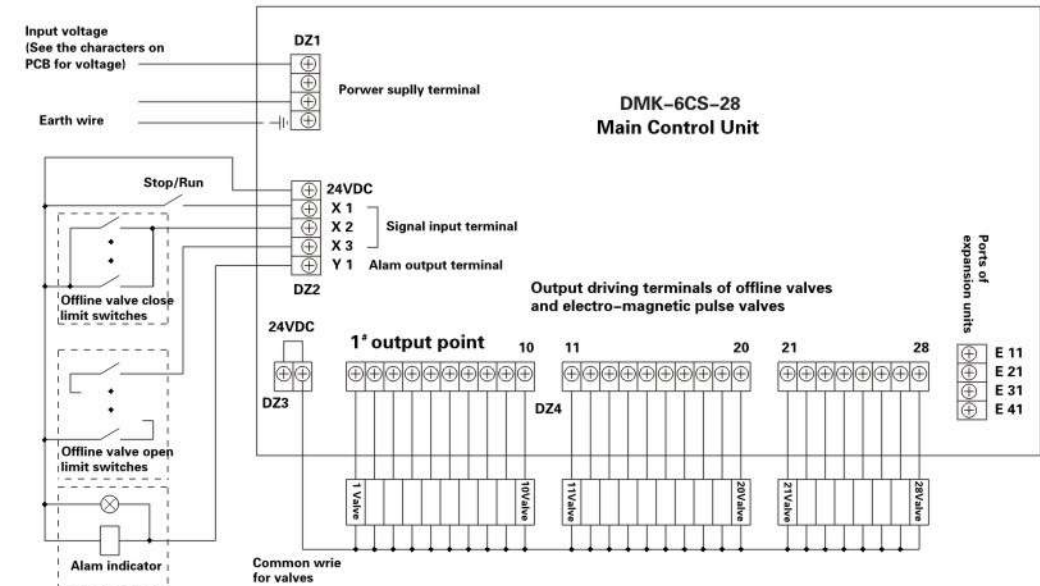


Specifications

Total output bits = the number offline valves + the number of electro-magnetic pulse valves = the bits of main frame (28) + the bits of 1# expansion unit + the bits of 2# expansion unit + ...

Main frame	Output digits	Adjustable range
DMK-6CS-6	8	1~6
DMK-6CS-12	12	1~12
DMK-6CS-20	20	1~20
DMK-6CS-28	28	1~28
Main frame	Output digits	Adjustable range
DMK-6CSD-6	8	1~6
DMK-6CSD-12	12	1~12
DMK-6CSD-20	20	1~20
DMK-6CSD-28	28	1~28
Main frame	Output digits	Adjustable range
DMK-6CSE-10	10	1~10
DMK-6CSE-30	30	1~30
DMK-6CSE-60	60	1~60

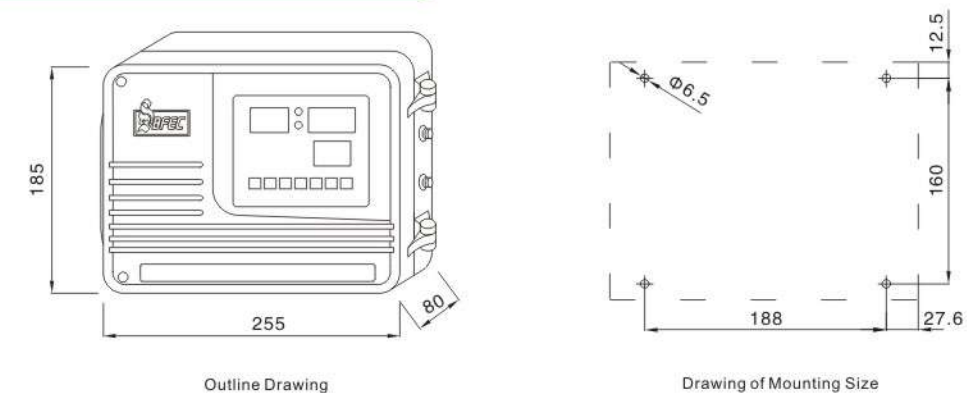
Wiring diagram



Technical Specifications

Input voltage	AC220V(1 ± 10%) or another specification
Operating frequency	50Hz-60Hz
Output voltage	DC24V
Output current	1A
Output digits	250(offline valves+electromagnetic pulse valves)
Alarm Output	DC24V, ≤0.2A
Measurement range of differential pressure	0~6000Pa
Accuracy	± 1.0%+1d
Gas tube interface	External diameter/internal diameter;6/4mm;plastic gas tube joint
Power consumption	< 10W
Working environment	-25°C~ + 55°C, Relative humidity < 85%; no serious corrosive gases, conductive dust, violent vibration or impact.
Weight	2.50kg
Dimensions	255mm × 185mm × 80mm(L × W × H)

Installation Drawing



Pulse Controller VI (Improved Type)

The pulse controller employs an MCU for its core control. It is used in offline run to realize control over double-electronic-control puppet valves and electromagnetic pulse valves.

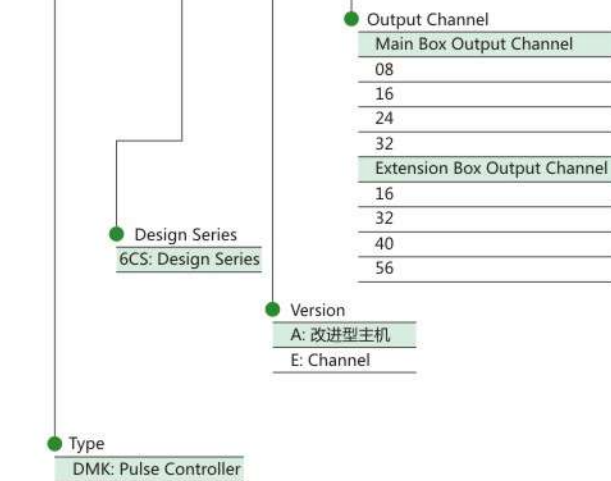
- A pulse controller controlling a double-electronic-control type cylinder.
- Offline mode and reasonable parameter setting.
- Aluminum alloy housing can be used under any tough condition.
- A reset function.



DMK 6CSA

Type Definition

DMK - 6CS A - 08

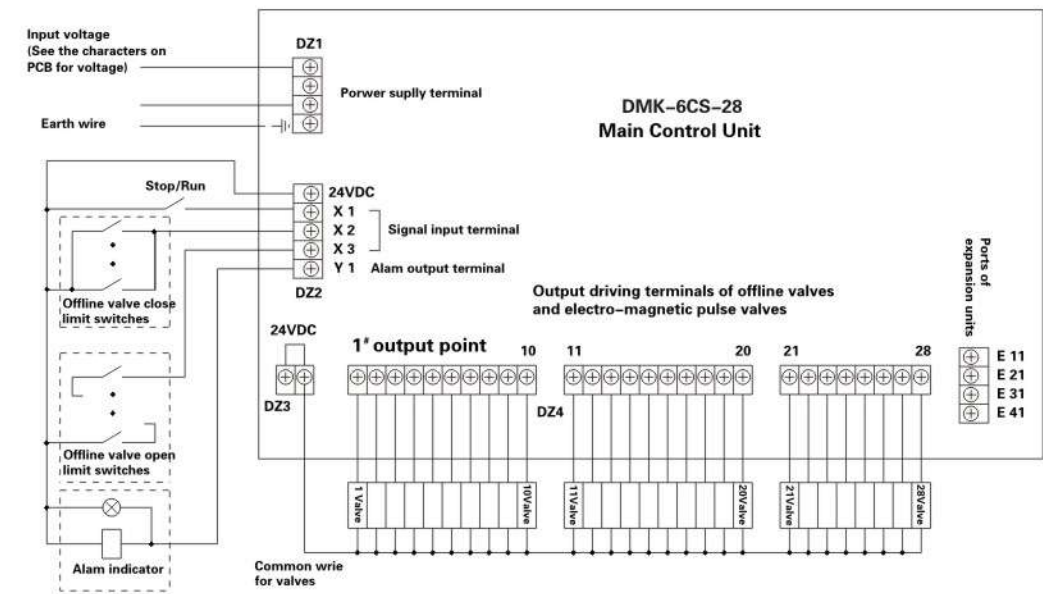


Specifications

Output digits=main frame+extension units(the main frame may be added with extension units with a maximum number of 999)

Main frame	Output digits	Adjustable range
DMK-6CSA-8	8	1~6
DMK-6CSA-16	16	1~16
DMK-6CSA-24	24	1~24
DMK-6CSA-32	32	1~32
Main frame	Output digits	Adjustable range
DMK-6CSA(E)-8	8	1~8
DMK-6CSA(E)-16	16	1~16
DMK-6CSA(E)-32	32	1~32
DMK-6CSA(E)-56	56	1~56

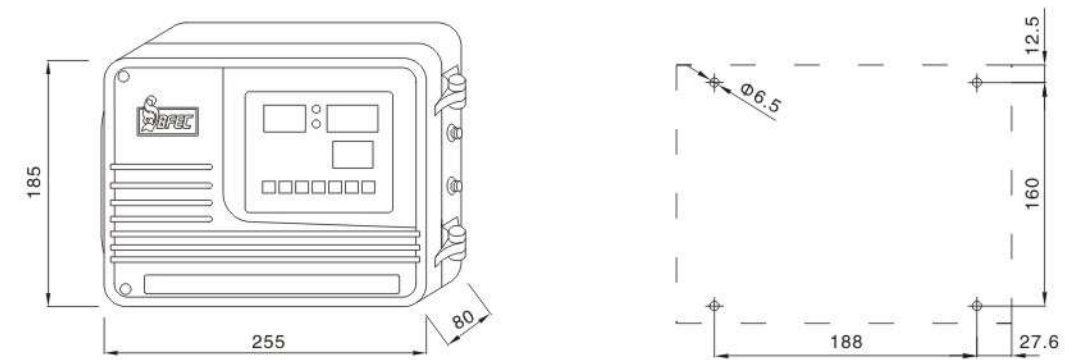
Wiring diagram



Technical Specifications

Input voltage	AC220V(1 ± 10%), 50-60Hz or another specification
Output capacity	DC24V/1A
Operating power	< 10W
Working environment	-5°C~55°C, Relative humidity < 85%; no serious corrosive gases, conductive dust, violent vibration or impact.
Weight	2.50kg
Dimensions	255mm × 185mm × 80mm

Installation Drawing



Outline Drawing

Drawing of Mounting Size

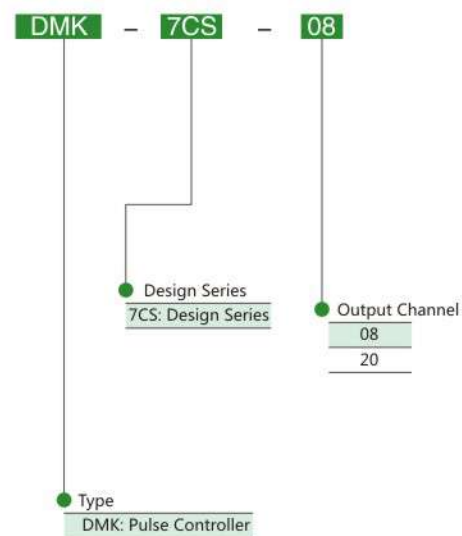
Pulse Controller VII

The pulse controller is the main control equipment in the pulse dust cleaning system of the pulse bag-house. Its output signals control the electromagnetic pulse valves to blow and inject compressed air to dislodge dust from the filter-bag in sequence to keep the running resistance of the bag-house within the set range. Thus guaranteeing the high processing ability and dust-collecting efficiency of the bag-house.



DMK 7CS

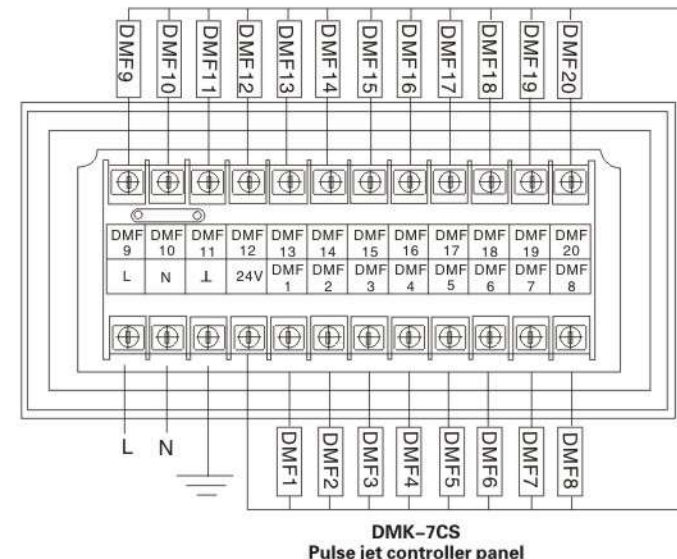
- A standard 160×80 plastic cabinet instrument cover suitable for electrical control cabinet installation and with easy connection.
- Panel operation, making parameter display and changes simple.
- A wide range of input voltages (AC85V-AC265V) ensuring wide usability.



Technical Specifications

Type	Output digits	Number of controlling pulse valves	Size(mm) (L×H×W)	Weight
DMK-7CS-8	8	8	160×80×120	0.6kg
DMK-7CS-20	20	20	160×80×120	0.9kg

Wiring diagram

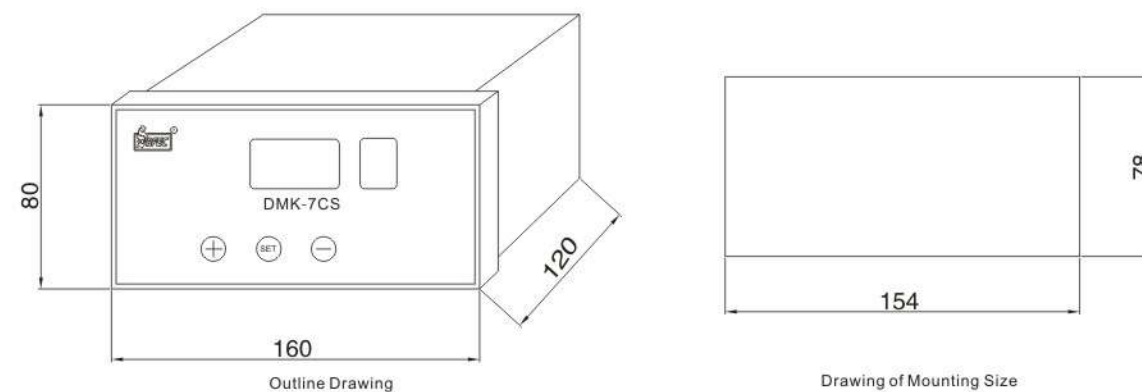


DMK 7CS

Technical Specifications

Output Voltage/Frequency	AC85V-AC265V/50Hz-60Hz
Output Voltage/Current	DC24V/1A
Output Digits	Single≤20, Extended≤200
Pulse Width	10~5000ms
Pulse Interval	1~999sec
Cycle Interval 1	0~59sec
Cycle Interval 2	0~59min
Cycle Interval 3	0~99hour
Number of Cycles	1~999 times/infinite
Manual Operation	√

Installation Drawing



Pulse controller VIII

The pulse controller employs an MCU for its core control with

Below function :

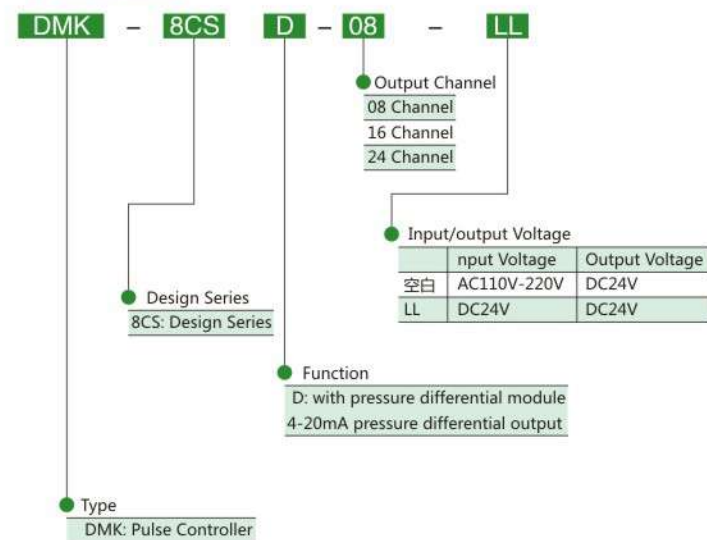
- Online/off-line mode ; fixed-time mode ; differential pressure mode ;
- Single/double acting cylinder control
- Remote communication and parameter setting with RS485 interface , Modbus-RTU communication protocol
- 4-20mA signal output of differential pressure (0-3500Pa)
- On/off control by electrical dry contacts



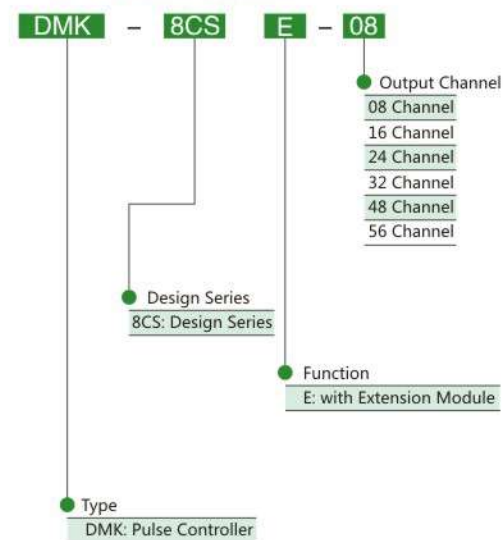
DMK
8CS

Type Definition

1、 Main Box



2、 Extension Module



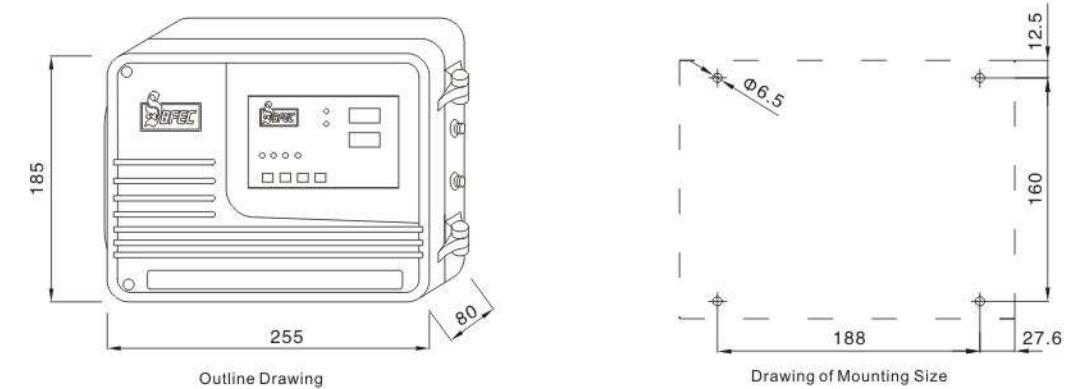
Main Box List

Type	Output digits	Number of controlling electromagnetic valves	Size(L×W×H)
1、 Base type			
DMK-8CS-8	8	1-8 Option	255x185x80mm
DMK-8CS-16	16	1-16 Option	255x185x80mm
DMK-8CS-24	24	1-24 Option	255x185x80mm
2、 with pressure differential module			
DMK-8CSD-8	8	1-8 Option	255x185x80mm
DMK-8CSD-16	16	1-16 Option	255x185x80mm
DMK-8CSD-24	24	1-24 Option	255x185x80mm

Control unit type list

Type	Output digits	Number of controlling electromagnetic valves	Size(L×W×H)
DMK-8CSE-8	8	1-8 Option	255x185x80mm
DMK-8CSE-16	16	1-16 Option	255x185x80mm
DMK-8CSE-24	24	1-24 Option	255x185x80mm
DMK-8CSE-32	32	1-32 Option	255x185x80mm
DMK-8CSE-48	48	1-48 Option	255x185x80mm
DMK-8CSE-56	56	1-56 Option	255x185x80mm

Installation Drawing



Technical specification

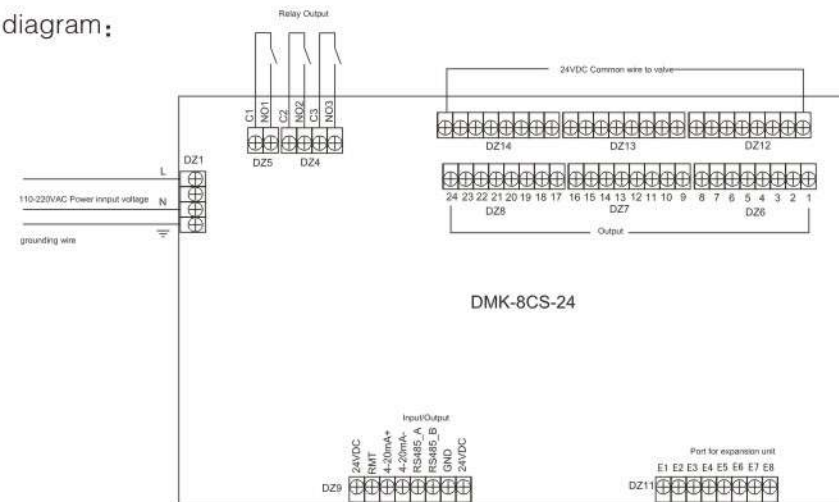
Input Voltage	1: 110-220VAC(1 ± 10%), 50/60Hz; 2: 24VDC(1 ± 10%)
Output voltage	24VDC
Output current	24VDC ≤ 1A
Output channel	main box: 8, 16, 24; Extension box: 8, 16, 24, 36, 48, 56
Width of pulse	30-9990ms
Interval of pulse	0-6000s
Interval of cycle	0-6000min
Pressure differential input	0-6000Pa ± 5.0%, 6mm/4mm(Outer/inner diameter) air pipe
Serial Communication	RS485 half-duplex
Communication protocol	MODBUS-RTU
Baud rate	9600 (1 stop bit,8 data bits, without parity check, address range 0-255)
Pressure differential output	4-20mA current output corresponding 0-3500Pa pressure differential.
Power	< 35W
Working Condition	-10°C ~ 55°C、Relative humidity < 85% No serious etchant gas and conductive dust, strenuous vibration or shock
Transport temperature	-20°C ~ 60°C
Weight	2.50kg
Size	255mm X 185mm X 80mm



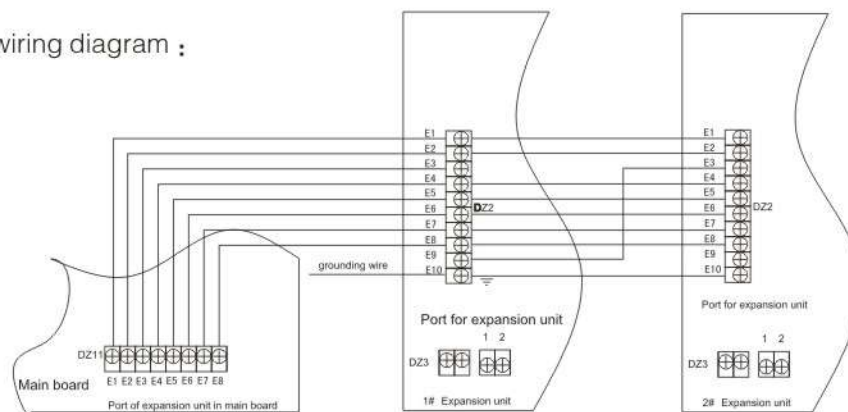
DMK 8CS

Pulse controller wiring diagram

1、Main box wiring diagram:

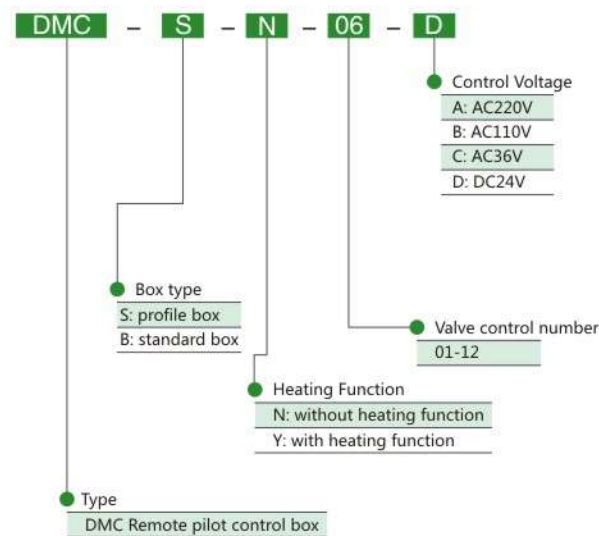


2、Extension box wiring diagram:


DMC Remote Pilot Control Box

 Suitable to use on harsh climate
 Add heat device for channel below 10


DMC

Type Definition

Technical Specification

 Working pressure: 0.2-0.6MPa
 Environment temperature: -25°C-55°C

Voltage

DC24V, AC220V, AC110V, AC36V

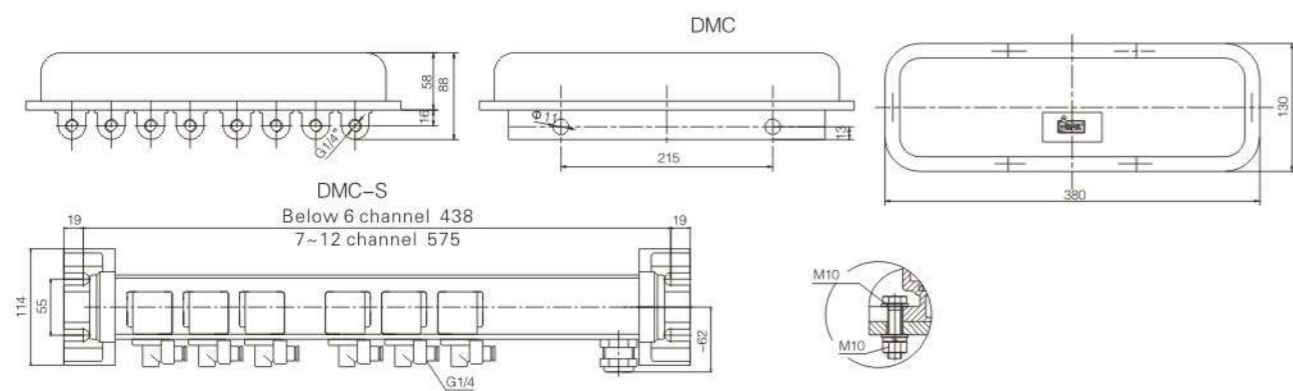


DMC

Air Requirement

Temperature below 55°C, without oil and water , filtration not below 5 micrometer

Installation Dimension



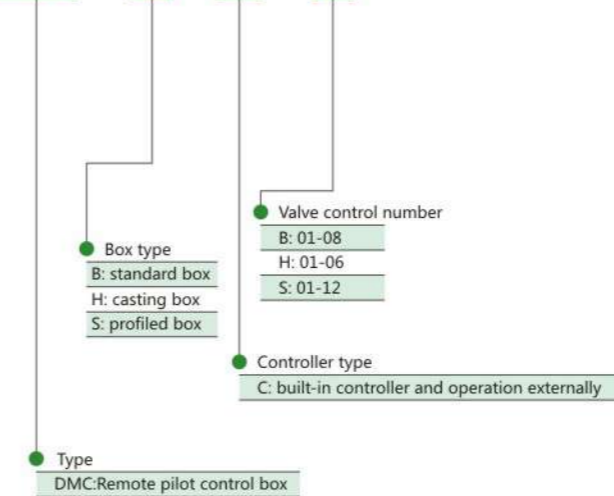
DMC Remote Pilot Control Box (Modification)

- Integrate with pulse controller function
- Real time show internal temperature
- LCD screen display working condition & setting parameter



How to order:

DMC - S - C - 06



Technical Specification

Working pressure:0.2~0.6MPa
Environment temperature:-25°C~55°C

Voltage

DC24V,AC220V,AC110V,AC36V

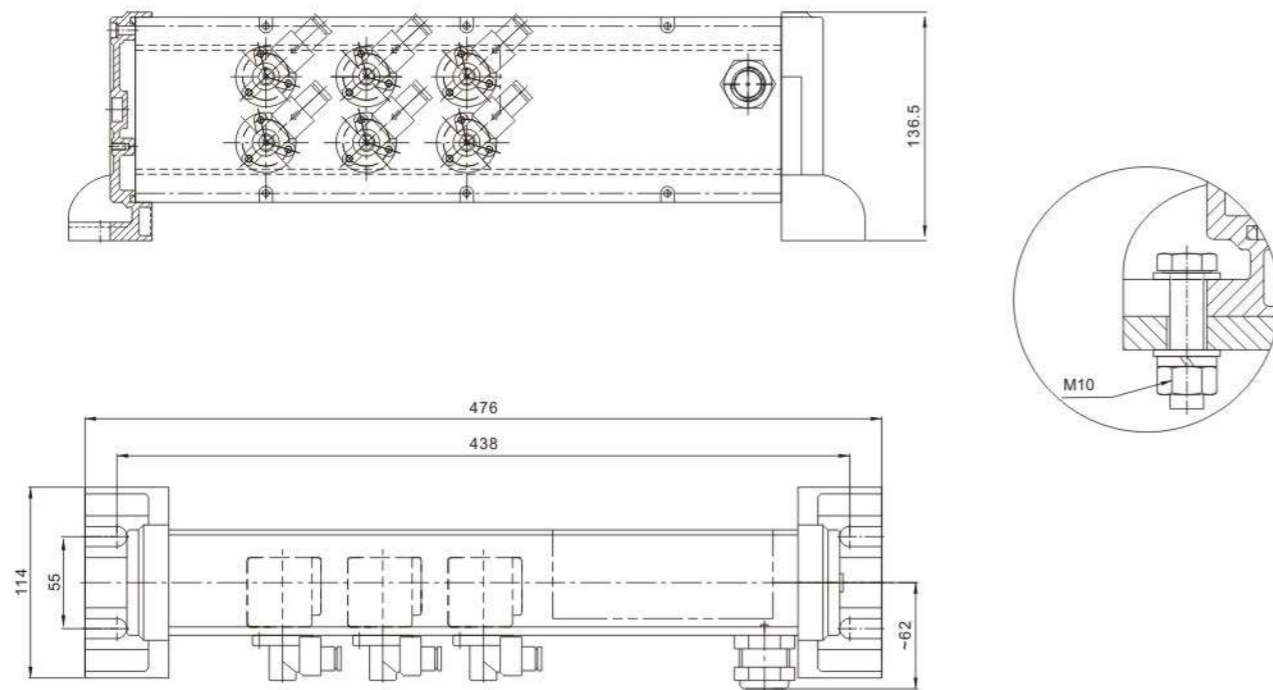
Air Requirement

Temperature below 55°C, without oil and water, filtration not below 5 micrometer

Control Parameter

Input Voltage	Pulse Width	Pulse Interval	Cycle Interval	Cycle time
AC100-250V	10-5000ms	1s-99Hr 59min 59s	0s-99Hr 59min 59s	1-9999 times/unlimited

Installation Dimension



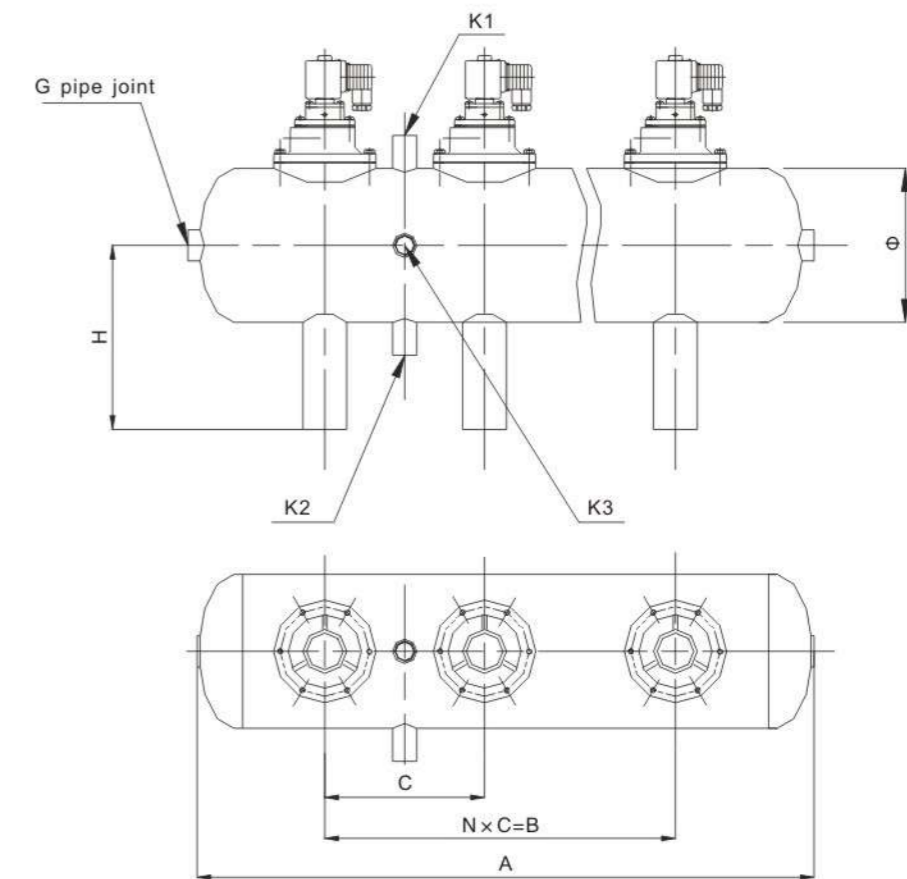
Air Tank

The air tank from our company is made of seamless steel tubes through welding and specially designed for bag type dust collectors. With selection of qualified manufacturers of pressure containers and in combination with the strict management and quality system of our company, we provide the high-quality reliable air tank to users.

- Operating pressure: 0.1~0.8MPa
- Source gas medium: pressure-adjustable non-corrosive clean gas subjected to deoiling and dewatering treatment, with the temperature below 55°C and the filtering accuracy smaller than 5 μm.



Installation Drawing



Percussion Hammer

QDC-2 series pneumatic percussion hammer is a dust blockage prevention device developed by our company independently in combination with advanced technologies at home and abroad. It can effectively eliminate wall adhering, arching, material hanging, blocking and other problems in production, and can perform percussion automatically without damaging housings of silos, pipelines and the like, improving safety production performance and yield. The pneumatic percussion hammer has the characteristics of large impact force and simple structure and is convenient to mount and use. It can be widely applied to the industries of cement, chemicals, food, steel mills, power plants and the like.

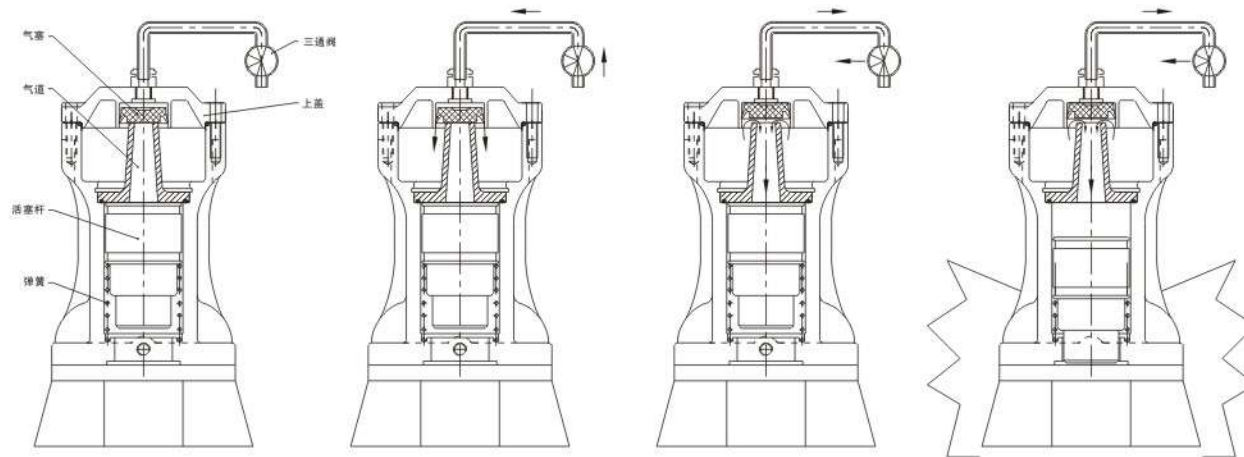
Working principle:

At an initial state, a compressed gas enters a cavity of the pneumatic percussion hammer, when a controller acts to make an air channel lose pressure, that is, the pressure in the cavity of the pneumatic percussion hammer is higher than that inside a pipeline, an air plug is made to move upwards to open a channel leading to a piston rod to make the piston rod move downwards rapidly, and the piston, and the piston rod finally strikes the desired surfaces of silos, pipe walls and the like in need of the percussion hammer. In the presence of the spring force, the percussion piston rod returns to its original position, waiting for the next percussion cycle.



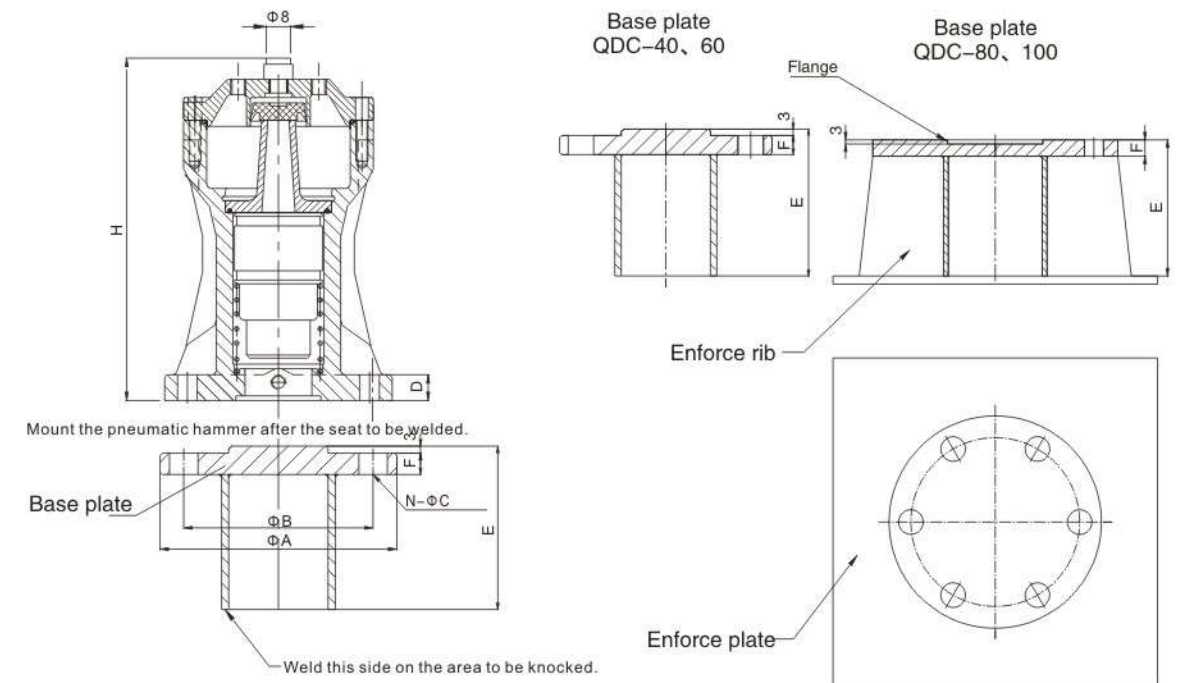
QDC

Schematic Diagram



Technical Specifications

Model	Operating pressure(MPa)	Air consumption (L/cycle)	Impact force(N.m/s)	Maximum percussion force (Ton)
QDC-2-40	0.3-0.7	0.15-0.36	24.5-138	3.0-5.0
QDC-2-60	0.3-0.7	0.32-0.77	65-162	8.5-12.5
QDC-2-80	0.3-0.7	0.60-1.40	145-230	10.0-18.0
QDC-2-100	0.3-0.7	0.98-2.28	290-450	15.0-24.0

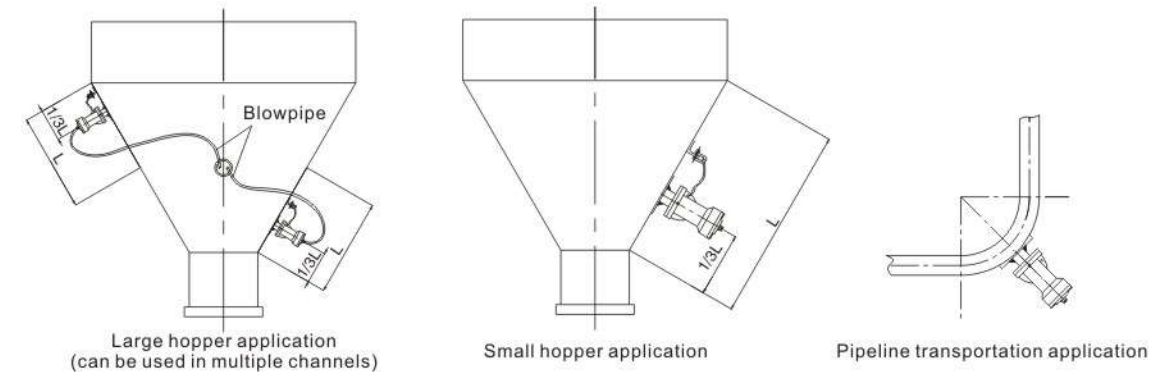


Technical Specifications

Model	Overall dimensions $\Phi A \times H$ (mm)	Installation dimensions(mm)			Flange height D(mm)	Flange height E(mm)	Flange height F(mm)	Body weight (kg)	Total weight (kg)
		ΦB	ΦC	N					
QDC-2-40	$\Phi 100 \times 175$	80	12	4	14	78	9	1.92	2.93
QDC-2-60	$\Phi 150 \times 230$	120	14	6	16	82	9	4.5	6.5
QDC-2-80	$\Phi 180 \times 280$	145	14	6	25	100	12	12	13.8
QDC-2-100	$\Phi 205 \times 330$	170	18	6	28	105	13	20.3	22.2

Installation diagram

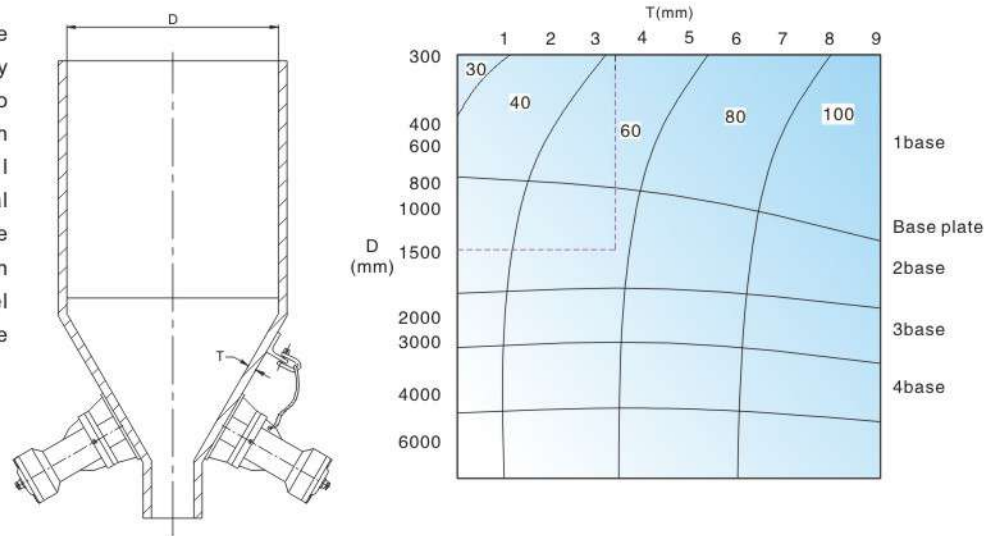
The installation can be determined according to the position shown in the hopper size diagram (the center is 1/4~1/3 of the length of the inclined plane), and the reinforcing base plate and reinforcing rib shall be welded and hammered at the hammering position, and there shall be a fulcrum for fixing the safety sling above it.



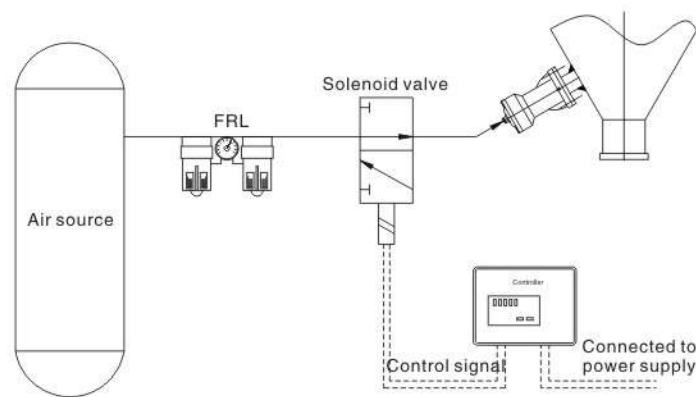
QDC

Model Selection

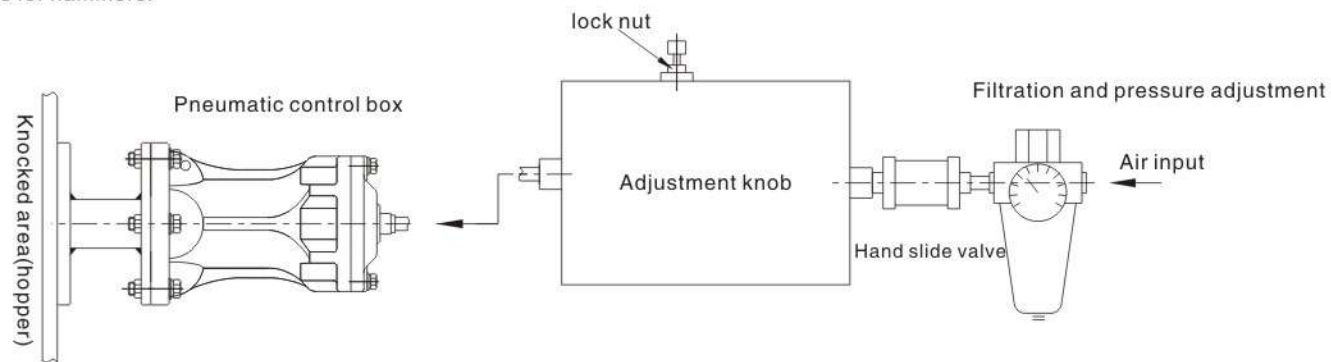
Regarding the model selection of the pneumatic percussion hammer, it is very difficult to make the selection due to differences in various conditions such as air supply pressure, silo wall thickness, silo diameter, and material property, and the model can only be determined based on experience in many occasions. Generally, the model can be selected according to the following diagram.



Control Diagram



The full pneumatic hammer controller can also be selected. This controller uses the compressed air circuit to realize the adjustment and control of the hammering time interval. The whole system is fully pneumatic control, without power supply, solenoid valve, timer and other control circuits. The controller can control the work of multiple series hammers at the same time, and is an ideal control device for hammers.



Full pneumatic hammer controller

Controller parameters

1. Model: QCK-2
2. Operating pressure: 0.3-0.7MPa
3. Operating temperature: 5-55 °C
4. Control the hammering frequency: 1-60 times/min

Service length of air tube

The maximum length of the air pipe between the hammer and the controller shall conform to the following table

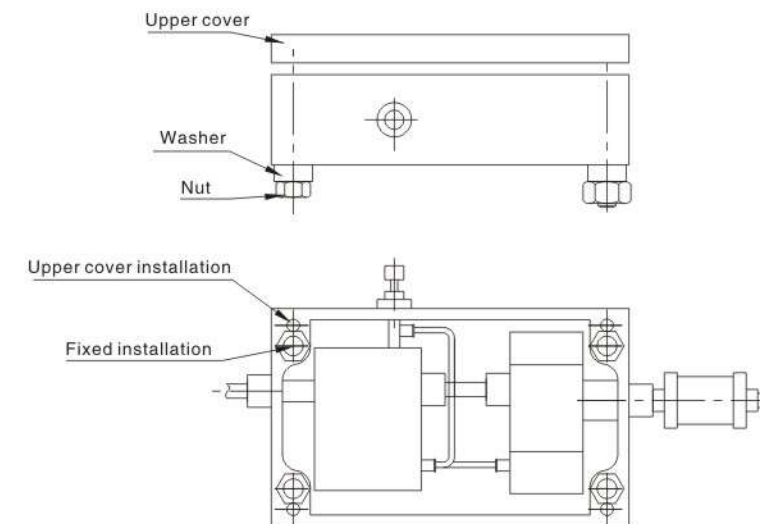
Air hammer model	QDC-40	QDC-60	QDC-80	QDC-100
Maximum length of air tube(m)	3	8	10	10

Tapping time adjustment

1. Ensure that the gas entering the control instrument and hammer is clean air, and the pressure is between 0.3-0.7MPa; (The pressure should be increased gradually)
2. Close the manual valve, and the hammer will knock once;
3. Open the manual valve and turn the adjusting knob of the control instrument to the end in a clockwise direction. At this time, the hammer should not work;
4. Then turn the control knob of the control instrument slowly clockwise to open it, and then set the interval time between hammers;
5. If necessary, after confirming the strike interval, lock the lock nut on the adjusting knob clockwise so that the adjusting knob can not be turned again;
6. After use, close the hand slide valve, and the pneumatic hammer will knock for the last time.

Install

After opening the upper cover of the control instrument, fix it on the installation site with bolts at the fixed installation hole.



DCK-1S hammer controller

Product Overview:

This product is a hammer control device. It outputs signals to control the hammer. It forms a hammer operation system with solenoid valve and pneumatic hammer.

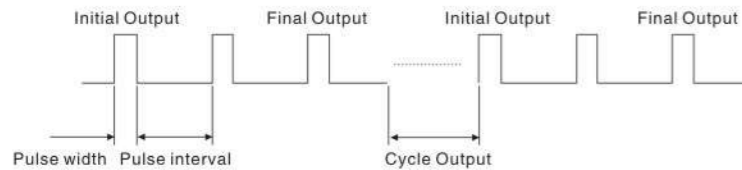
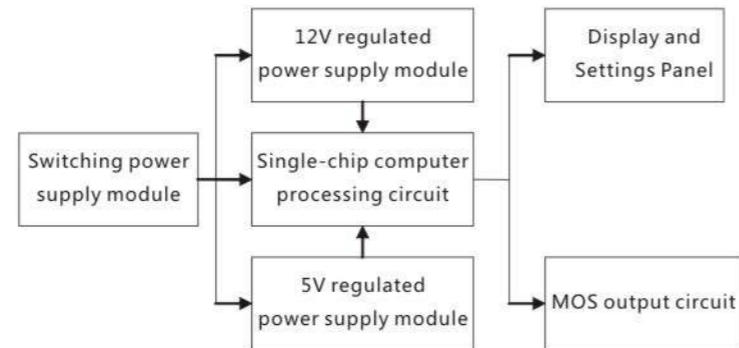
Number of output bits – the number of output bits of the controller and the number of driving hammers.

Pulse width -- the interval between the output of an electrical signal by the controller.

Pulse interval – the interval between two electrical signals before and after the controller outputs.

Cycle cycle – the time from the first position to the last position of the controller to the next restart.

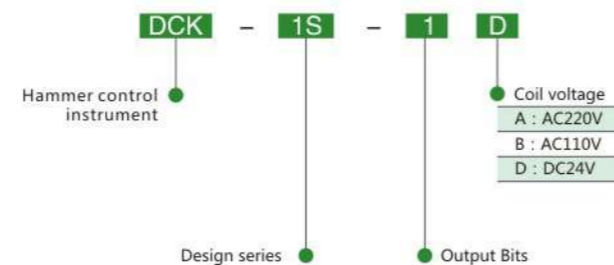
Cycle times – the number of consecutive cycle operations. If it is zero, it is unlimited to operate according to the cycle cycle. If it is greater than zero, the system stops running after the set number of operations is completed.



The hammer controller has the following functions:

1. According to the requirements, set the actual control digits of the hammer, adjust the pulse interval, pulse width, cycle interval, control the opening and closing of the solenoid valve, and conduct regular ash cleaning.
2. The LED on the panel and the indication displayed on the nixie tube can clearly tell the user the parameter function currently set, and the operation is simple to avoid user operation errors.
3. The "Manual" function enables the user to check the working condition of the solenoid valve in turn.
4. It is made of metal, which is easy to install and use. Users can set various parameters through the panel without opening the shell.

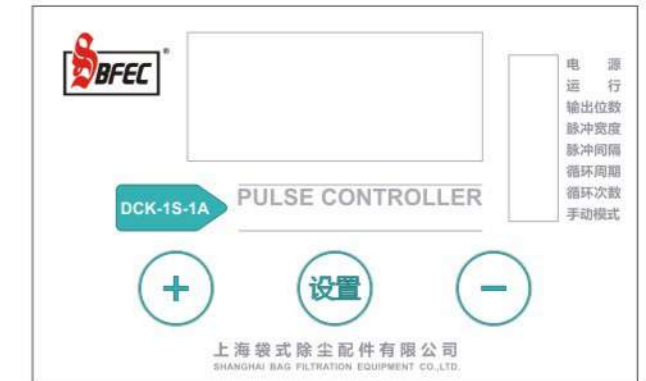
How to order:



Working Function

The controller uses the microprocessor as the main control chip to generate pulse signals, control the electronic switch (POWERMOS circuit) to control the opening of the solenoid valve, drive the hammer to work, and display relevant information by the nixie tube.

The adjustment of the controller parameters and the display of the output status are realized on the main panel, as shown in Figure 6. Operate according to the following table 1 to set the output digit, pulse width, pulse interval, cycle cycle cycle, cycle number and complete the manual operation and other functions. LED can tell the user the meaning of the parameters currently set. The operation indicator flashes once a second to tell the user that the program is running normally.



图六

Specification

Rated input voltage	110~220VAC (1 ± 10%) 50~60Hz/24VDC
Output port load capacity	24VDC/1A
Output channel	1
Output pulse width adjustment range	10~5000ms
Output pulse interval adjustment range	1~999s
Cycle period 1	0~59s
Cycle period 2	0~59min
Cycle period 3	0~59hour
Number of cycles	99(Preset 0, i.e. infinite cycle)
Manual output	Available
Use environment	-25°C+55°C

Wiring mode

Note that the L and N terminals of the controller should be connected to the AC 220V power supply. Generally, the blue line is the N-zero line, the brown line is the L-live line, and the yellow-green inter-phase line is the grounding wire. If you are in doubt, you can open the cover and check the correspondence of L/N/P E symbols on the circuit board.

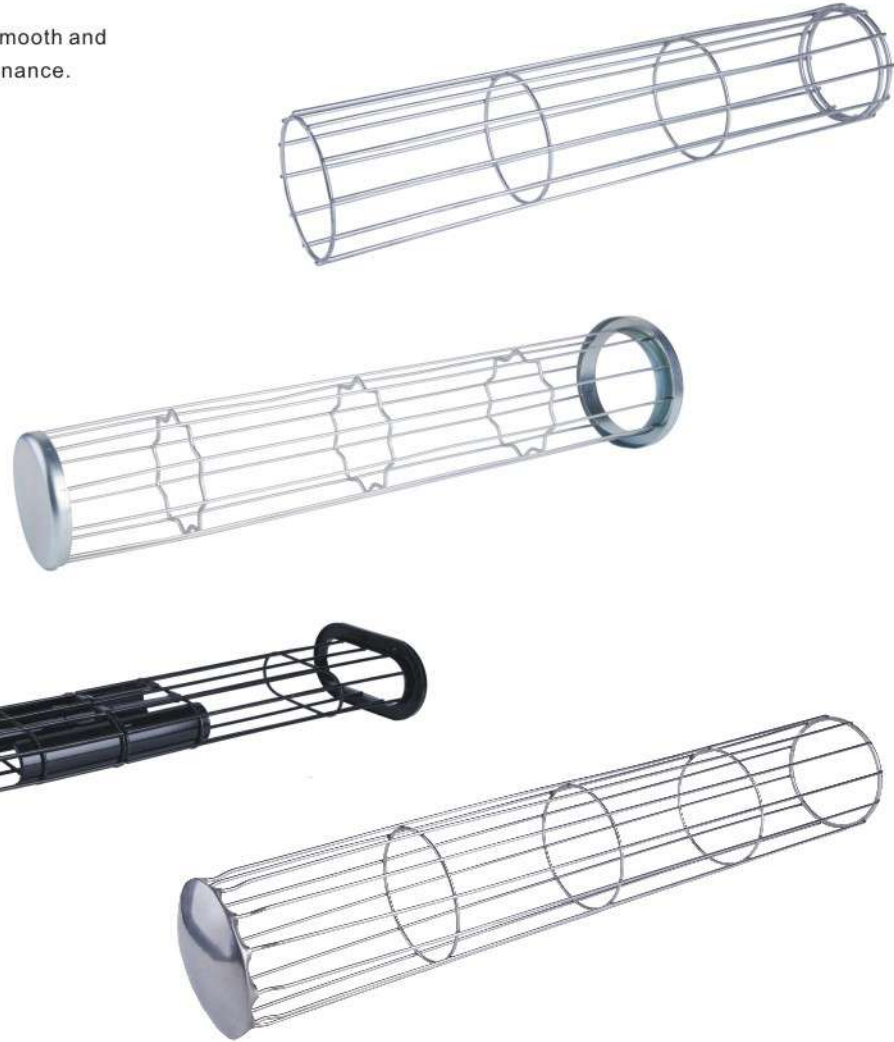
Maintenance

Connect the control instrument to the power supply. If the power indicator light is not on, check whether the power line is loose, whether the switch power module is normal, and whether the power part is broken or desoldered. There is AC220V high voltage in the printed circuit board. Please pay attention to safety.

- [1] After the controller is powered on, if you press the "Set" button, you cannot enter the setting state, please check whether the key circuit is normal, and whether the nixie tube display circuit or LED display circuit works normally.
- [2] The digital tube of the controller displays normally, but the corresponding solenoid valve does not act. Check whether the corresponding MOS tube is damaged and whether the output level of the control door is normal.
- [3] The display of the digital tube of the control instrument is normal, and the solenoid valve is normally sucked. Check whether the corresponding MOS tube has leakage and is broken down, and whether it is lower than 0.5V when the output of the control door is "0".
- [4] The display of the digital tube of the controller is normal, and the solenoid valve does not act. Check whether the 24V power supply and pulse width control are normal, and whether the common terminal of the valve is in reliable contact with the output wire.

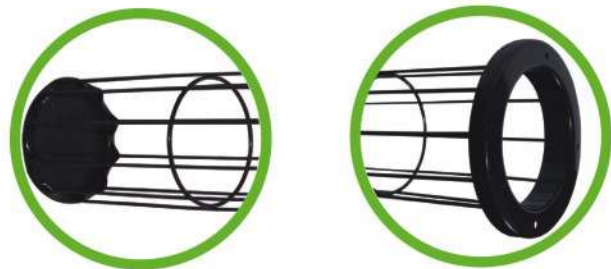
Cage

SBFEC bag cages stuck to be light, smooth and straight, easy installation and maintenance.



1

Cage material: stainless steel Carbon steel.
Cage surface treatment: Zinc coating; organic silicone coating; pickling etc.



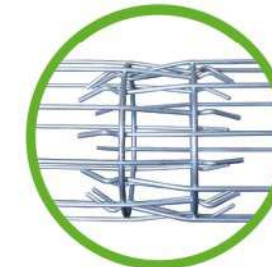
2

Connection method:

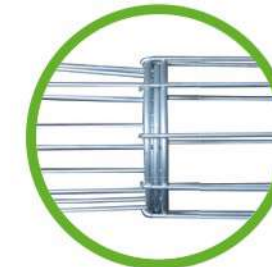
Due to limitations of length, each cage needs to be divided into two or three sections for easy installation. Thus, we mainly provide the following four cage connection methods.



Sleeve type



Finger type



Three-ring connection



Bayonet type

3

When customizing cages, provide as much of the following information as possible so that we can design the desired cages.

- Material, length and diameter
- Single-section or multi-section (please choose the connection type)
- Wire diameter and number of the vertical rods
- Surface treatment requirements (carbon steel surfaces may be coated with zinc or organic silicon)
- Tubesheet diameter
- Packing requirements
- Special circumstances

4

If you do not know how to determine your cage, please let us know your filter bag material, size and other specifications, we will recommend based on this you need to design the cage.

Filter Bag

Bag filter is to determine the efficiency and operating temperature of the key components, bag filter bag filter is the main maintenance costs. Therefore, the working life of the filter bag is related to the operation status and cost of the precipitator.

Our bags meet,

- a) Choose the right filter
- b) Reasonable structural design
- c) Rigorous U.S. imports
- d) Superb sewing technology

In practice, there should be a correct understanding of the methods of use in order to ensure that The service life of the filter bag.

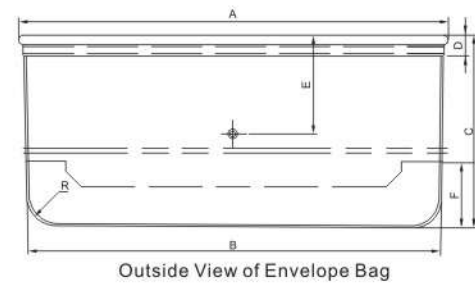
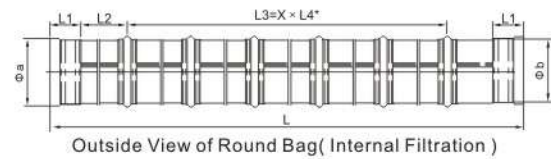


Dimension Recommended

	Diambeter	Length	Range of application
Round Bag(External Filtration)	120	2000 2400 2800	Pulse jet type bag filter
	130	3200 3600 4000	
	152	4400 4800 5200	
	200	5600 6000	
Round Bag(Internal Filtration)	180	6000 8000	Sectional reverse blow type bag filter
	250	10000 12000	
	300		

We can customize filter bags of different specifications.

Outside Views



Custom filter bag

In order to clarify customer requirements, custom non-standard filter bag, please inform us the necessary information:

1. Filter bag installation form
2. Filter bag material characteristics of the request
3. Filter bag installed porous plate diameter and thickness
- 4 filter bag specifications

Table Of Performance Of Filter Bag

Fiber type	Operating temperature (°C)	Transient temperature (°C)	Resistance to abrasion	Resistance to hydrolysis	Resistance to acids	Resistance to alkalis	Resistance to oxidation
Polypropylene (polypropylene Fiber)	90	110	Good	Excellent	Excellent	Excellent	Moderate
Homopoly Acrylonitrile (Acrylic)	120	130	Moderate	Good	Good	Moderate	Good
Polyester(Terylene)	130	150	Excellent	Poor	Moderate	Fair	Good
Polyphenylene Sulfide(PPS)	180	200	Good	Excellent	Excellent	Excellent	Fair
M-AR(Metamax)	190	210	Good	Moderate	Moderate	Good	Moderate
Polyimide (P84)	220	260	Good	Moderate	Moderate	Moderate	Good
Polytetrafluorethylene (PTFE)	250	280	Good	Excellent	Excellent	Excellent	Excellent
Glass Fiber	260	290	Fair	Good	Moderate	Fair	Good

Cleaning system laboratory



Nozzle

When the bag-type dust collector carries out pulse soot cleaning, there is a gradual increase in the flow rate of the equal-diameter nozzle in the blowing pipe along the direction of the soot cleaning air flow, and the jet air flow has different degrees of eccentricity, resulting in uneven soot cleaning effect and local damage of the filter bag.

For this reason, we have designed a special bag-type nozzle for injection. The special nozzle has a special structure design and a variety of caliber options, which perfectly solves the problem of the verticality and uniformity of the ash cleaning airflow, and enhances the secondary drainage, so the ash cleaning effect is better.

- Increase the service life of filter bag;
- Convenient and fast installation;
- Conduct positive air flow and clean ash vertically;
- Multiple caliber selection to ensure uniform ash cleaning air flow;
- Enhance the secondary drainage, and the ash removal effect is better;
- Holes are uniformly opened on the blowing pipe to save the processing amount of the blowing pipe.

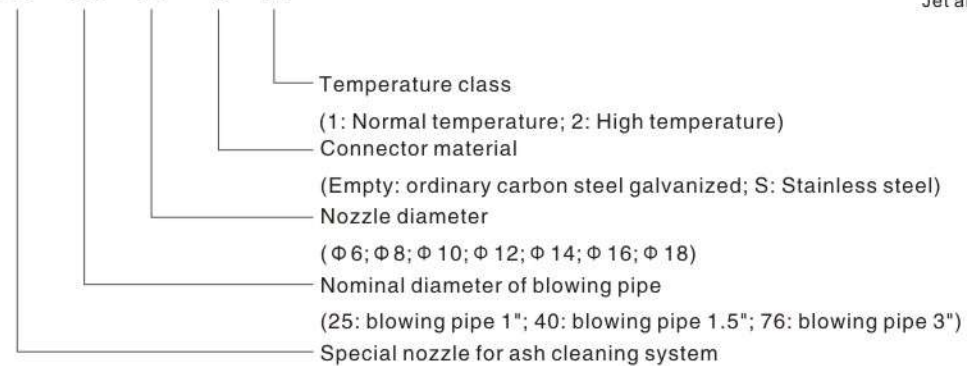


Nozzle

Nozzle

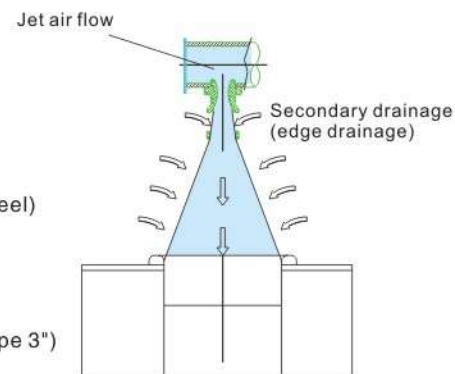
How to order:

DQP - XX - X - X - X

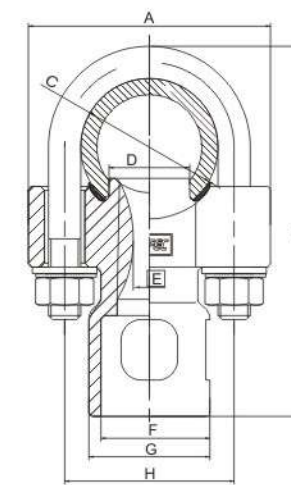


For example: DQP25-8-S1 (the customer needs the nominal diameter of the blowing pipe to be 25, and the blowing mouth to be 8mm, The connecting piece is made of stainless steel and the temperature class is normal temperature nozzle)

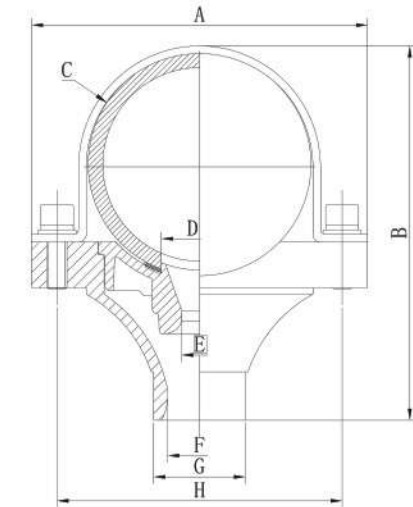
Schematic diagram of nozzle spray gun



Installation diagram and outline diagram



1" , 1.5" Blowing pipe



3" Blowing pipe

Model	Nominal diameter	A	B	C	D	E	F	G	H
DQP25-6-1	25	60	92	φ34	φ21	φ6	φ24	φ30	42
DQP25-8-1	25	60	92	φ34	φ21	φ8	φ24	φ30	42
DQP40-8-1	40	74	110	φ48	φ27	φ8	φ28	φ34	56
DQP40-10-1	40	74	110	φ48	φ27	φ10	φ28	φ34	56
DQP40-12-1	40	74	110	φ48	φ27	φ12	φ28	φ34	56
DQP76-12-1	76	132	147	φ89	φ30	φ12	φ25	φ36	112
DQP76-14-1	76	132	147	φ89	φ30	φ14	φ25	φ36	112
DQP76-16-1	76	132	147	φ89	φ30	φ16	φ25	φ36	112
DQP76-18-1	76	132	147	φ89	φ30	φ18	φ25	φ36	112
DQP25-6-2	25	60	92	φ34	φ21	φ6	φ24	φ30	42
DQP25-8-2	25	60	92	φ34	φ21	φ8	φ24	φ30	42
DQP40-8-2	40	74	110	φ48	φ27	φ8	φ28	φ34	56
DQP40-10-2	40	74	110	φ48	φ27	φ10	φ28	φ34	56
DQP40-12-2	40	74	110	φ48	φ27	φ12	φ28	φ34	56
DQP76-12-2	76	132	147	φ89	φ30	φ12	φ25	φ36	112
DQP76-14-2	76	132	147	φ89	φ30	φ14	φ25	φ36	112
DQP76-16-2	76	132	147	φ89	φ30	φ16	φ25	φ36	112
DQP76-18-2	76	132	147	φ89	φ30	φ18	φ25	φ36	112
DQP25-6-S1	25	60	92	φ34	φ21	φ6	φ24	φ30	42
DQP25-8-S1	25	60	92	φ34	φ21	φ8	φ24	φ30	42
DQP40-8-S1	40	74	110	φ48	φ27	φ8	φ28	φ34	56
DQP40-10-S1	40	74	110	φ48	φ27	φ10	φ28	φ34	56
DQP40-12-S1	40	74	110	φ48	φ27	φ12	φ28	φ34	56
DQP76-12-S1	76	132	147	φ89	φ30	φ12	φ25	φ36	112
DQP76-14-S1	76	132	147	φ89	φ30	φ14	φ25	φ36	112
DQP76-16-S1	76	132	147	φ89	φ30	φ16	φ25	φ36	112
DQP76-18-S1	76	132	147	φ89	φ30	φ18	φ25	φ36	112
DQP25-6-S2	25	60	92	φ34	φ21	φ6	φ24	φ30	42
DQP25-8-S2	25	60	92	φ34	φ21	φ8	φ24	φ30	42
DQP40-8-S2	40	74	110	φ48	φ27	φ8	φ28	φ34	56
DQP40-10-S2	40	74	110	φ48	φ27	φ10	φ28	φ34	56
DQP40-12-S2	40	74	110	φ48	φ27	φ12	φ28	φ34	56
DQP76-12-S2	76	132	147	φ89	φ30	φ12	φ25	φ36	112
DQP76-14-S2	76	132	147	φ89	φ30	φ14	φ25	φ36	112
DQP76-16-S2	76	132	147	φ89	φ30	φ16	φ25	φ36	112
DQP76-18-S2	76	132	147	φ89	φ30	φ18	φ25	φ36	112

Spare Parts

Produce standard parts specially, for convenient and effective more to use and maintain the bag filter.



Outside Views(mm)

Fig 7 FAP-A-1-20

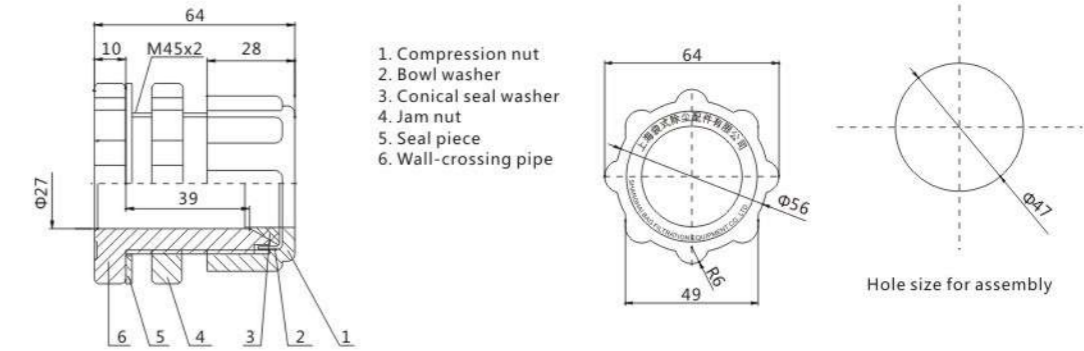
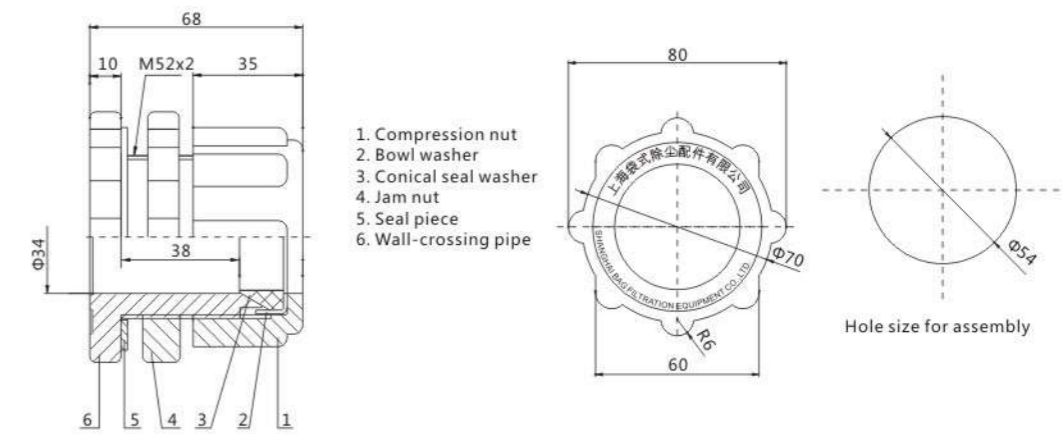


Fig 8 FAP-A-1-25



Wall Connector

Made by aluminum alloy die-castings, stamping parts and rubber parts; wall connectors can fix and seal without welding, easy installation and maintenance.

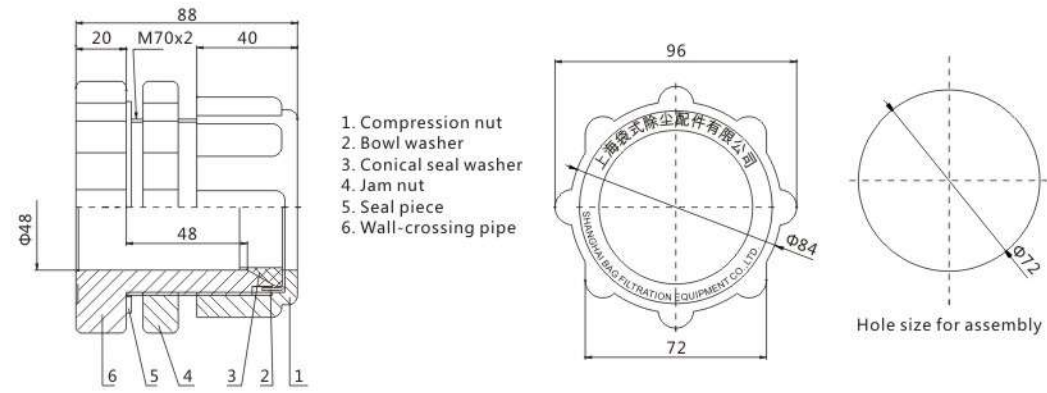
FAP-A series more for pulse valve output and precipitator box connected

FAP-B series for submerged pulse valve and air tank connection

FAP-C series for pulse valve input and air tank connection



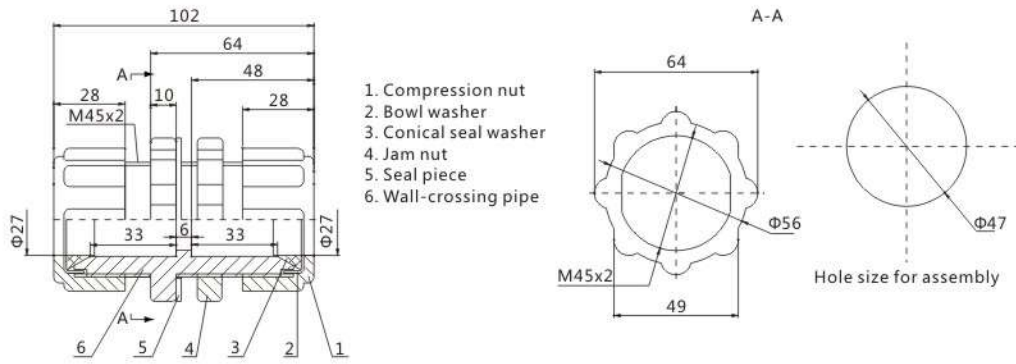
Fig 9 FAP-A-1-40



1. Compression nut
2. Bowl washer
3. Conical seal washer
4. Jam nut
5. Seal piece
6. Wall-crossing pipe

Hole size for assembly

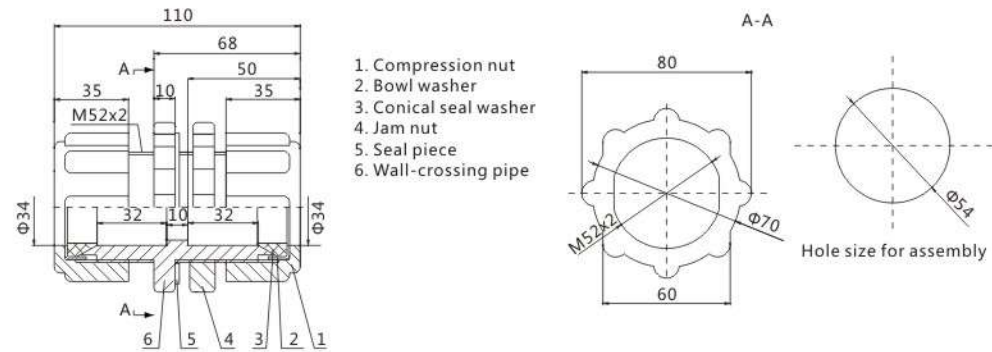
Fig 10 FAP-A-2-20



1. Compression nut
2. Bowl washer
3. Conical seal washer
4. Jam nut
5. Seal piece
6. Wall-crossing pipe

Hole size for assembly

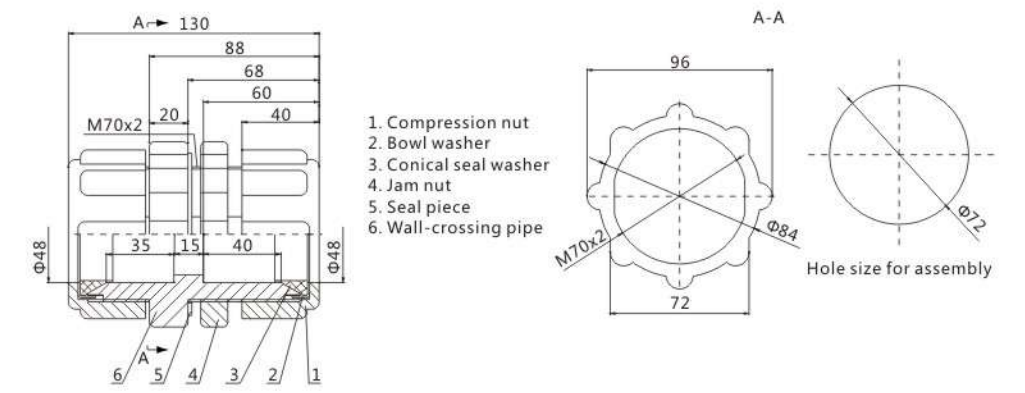
Fig 117 FAP-A-2-25



1. Compression nut
2. Bowl washer
3. Conical seal washer
4. Jam nut
5. Seal piece
6. Wall-crossing pipe

Hole size for assembly

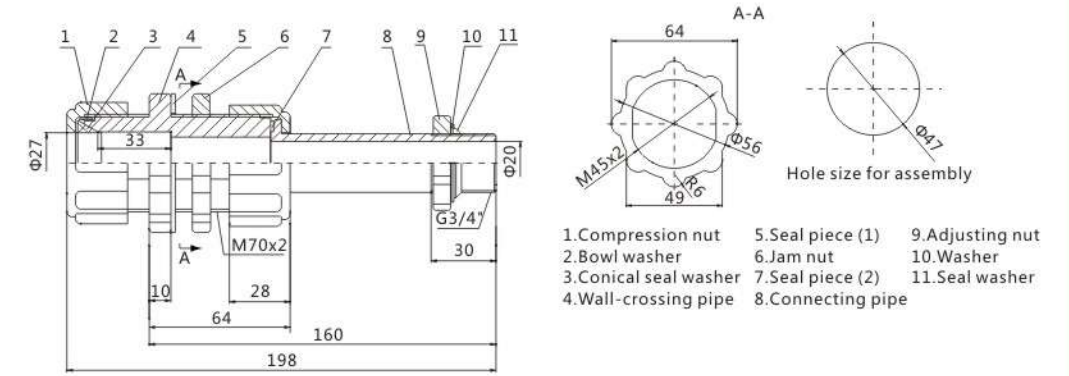
Fig 12 FAP-A-2-40



1. Compression nut
2. Bowl washer
3. Conical seal washer
4. Jam nut
5. Seal piece
6. Wall-crossing pipe

Hole size for assembly

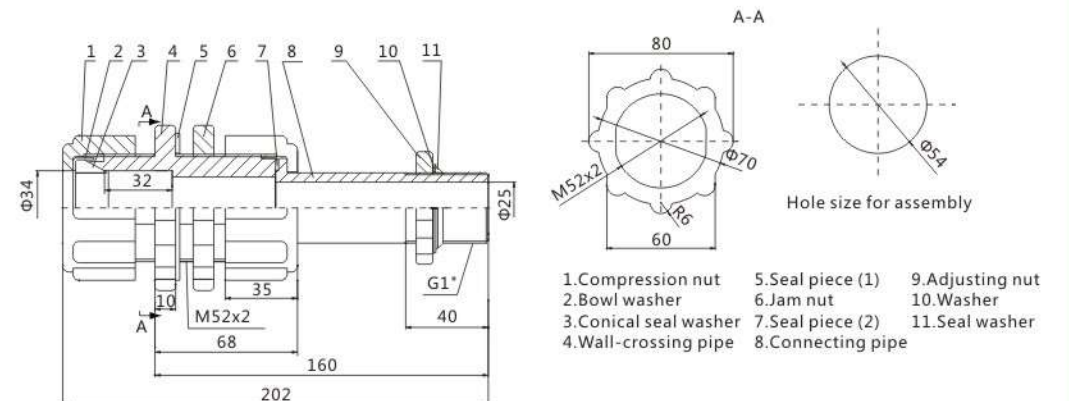
Fig 13 FAP-A-3-20



1. Compression nut
2. Bowl washer
3. Conical seal washer
4. Wall-crossing pipe
5. Seal piece (1)
6. Jam nut
7. Seal piece (2)
8. Connecting pipe
9. Adjusting nut
10. Washer
11. Seal washer

Hole size for assembly

Fig 14 FAP-A-3-25



1. Compression nut
2. Bowl washer
3. Conical seal washer
4. Wall-crossing pipe
5. Seal piece (1)
6. Jam nut
7. Seal piece (2)
8. Connecting pipe
9. Adjusting nut
10. Washer
11. Seal washer

Hole size for assembly

Fig 15 FAP-A-3-40

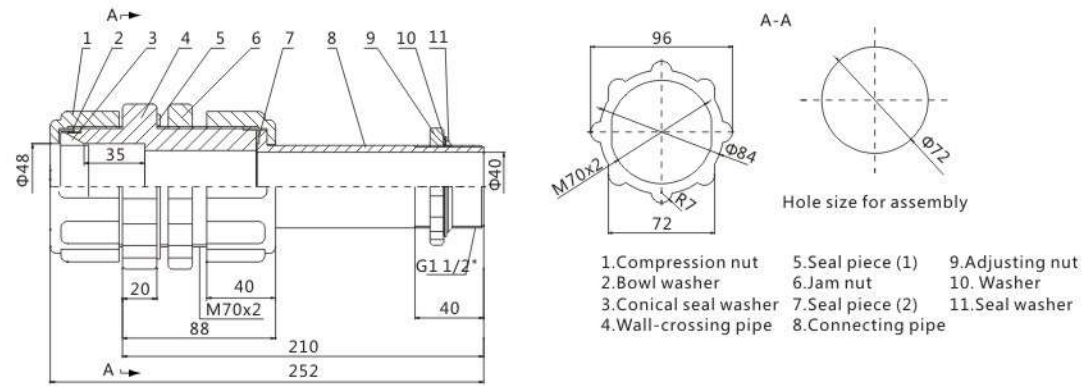


Fig 16 FAP-B-1-25

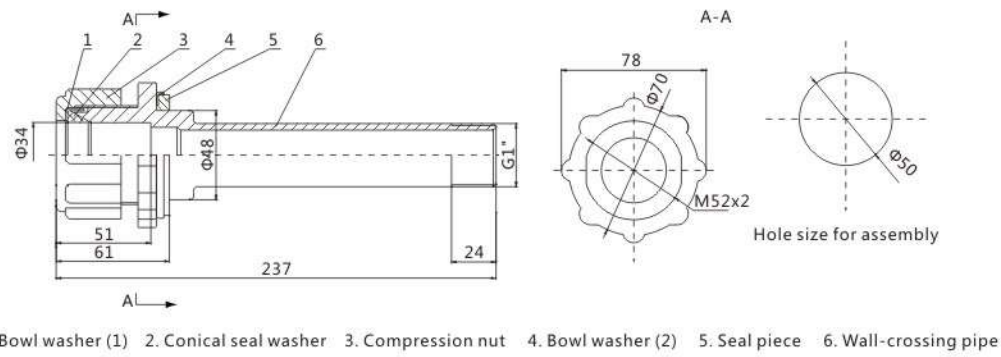


Fig 17 FAP-B-1-40

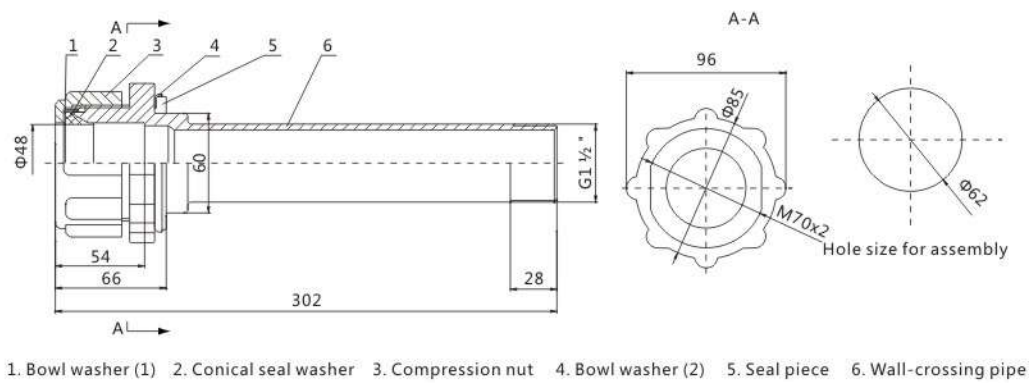


Fig 18 FAP-B-3-50

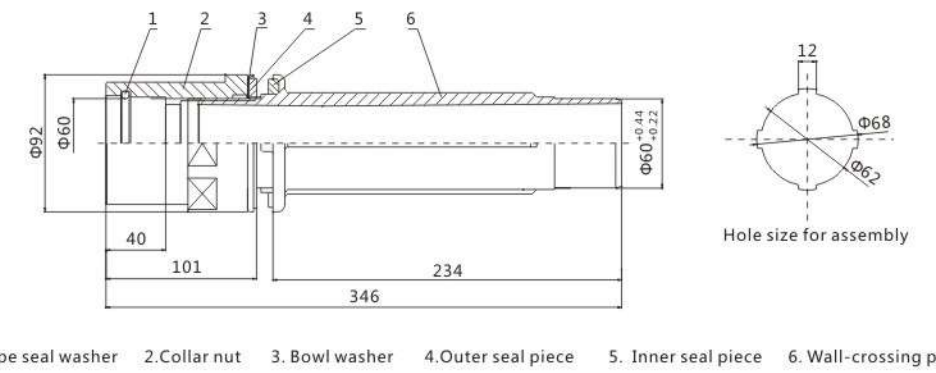


Fig 19 FAP-B-3-62

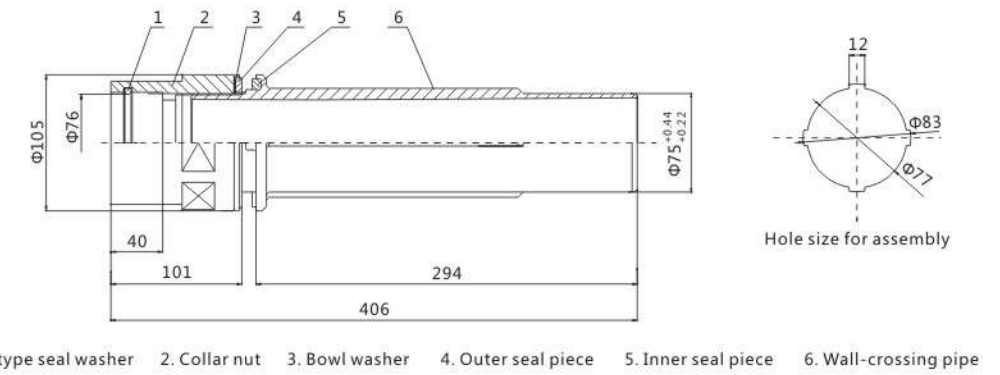


Fig 20 FAP-B-3-76

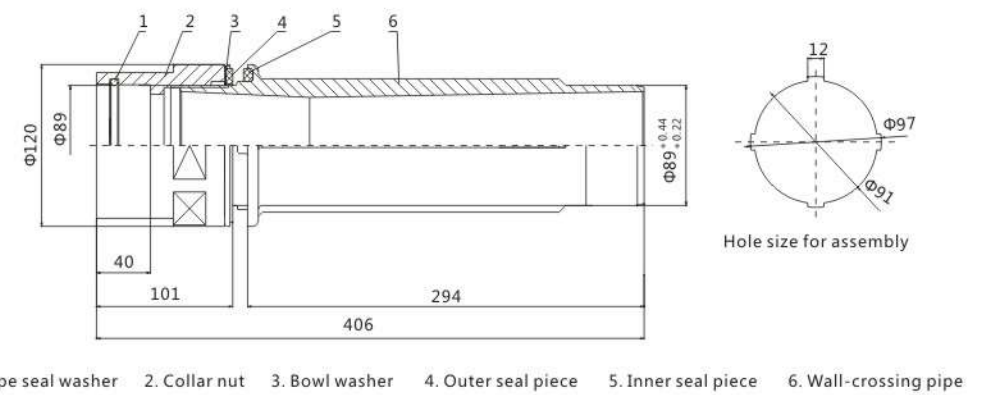
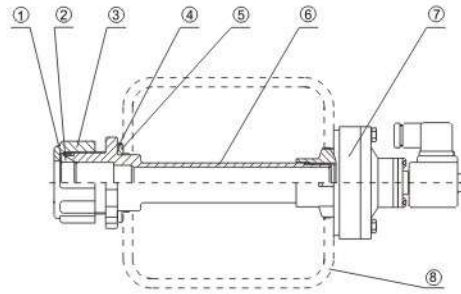
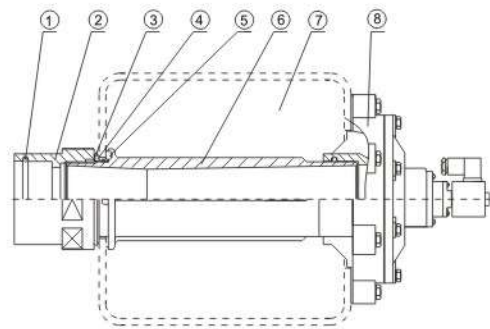


Fig 27 FAP-B-1



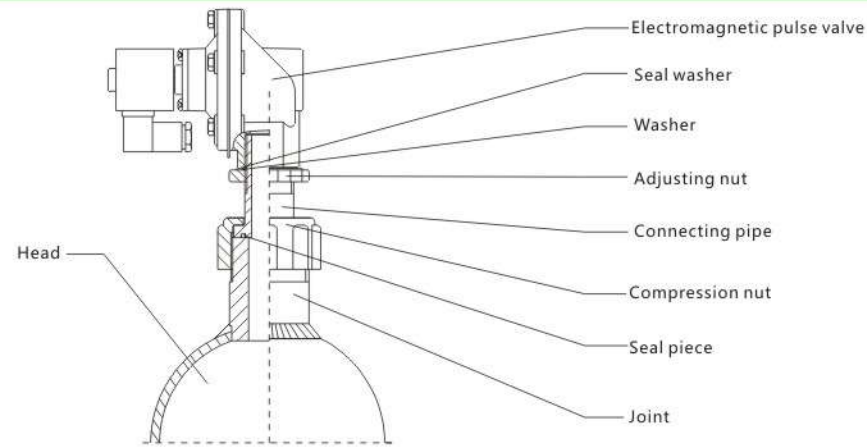
1. Bowl washer (1)
2. Conical seal washer
3. Compression nut
4. Bowl washer (2)
5. Seal piece
6. Wall-crossing pipe
7. Electromagnetic pulse valve
8. Head

Fig 28 FAP-B-3



1. O type seal washer
2. Collar nut
3. Bowl washer
4. Outer seal piece
5. Inner seal piece
6. Wall-crossing pipe
7. Head
8. Electromagnetic pulse valve

Fig 29 FAP-C-1



- Electromagnetic pulse valve
- Seal washer
- Washer
- Adjusting nut
- Connecting pipe
- Compression nut
- Seal piece
- Joint

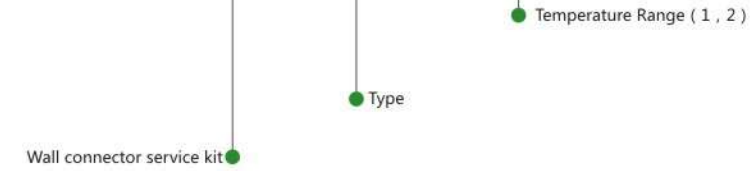
Spare Parts

Wall connector spare parts Kit

Wall connector spare part kit include of bowl shape seal and washer .

Type Definition

CWXB - B3-76 - 1



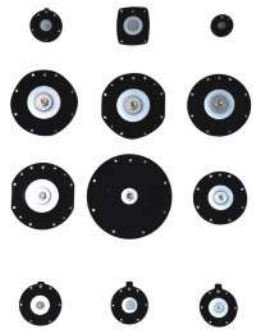
Service kit

Type Specification

Content	Type			
	CWXB		CWXB	
Type and specification	A1-20	FAP-A-1-20	B1-25	FAP-B-1-25
	A1-25	FAP-A-1-25	B1-40	FAP-B-1-40
	A1-40	FAP-A-1-40	B3-50	FAP-B-3-50
	A2-20	FAP-A-2-20	B3-62	FAP-B-3-62
	A2-25	FAP-A-2-25	B3-76	FAP-B-3-76
	A2-40	FAP-A-2-40	C1-20	FAP-C-1-20
	A3-20	FAP-A-3-20	C1-25	FAP-C-1-25
	A3-25	FAP-A-3-25	C1-40	FAP-C-1-40
Temperature Range	1	-25°C-100°C		
	2	-25°C-230°C		

Diaphragm

All diaphragms are imported and finished with high quality.



Venturi

Made by die-cast aluminum alloy, used for point-jet pulse jet bag filters to guide jetting of the blown gas source to improve the dust.



Bag cap

Made by stamped steel sheets (plain carbon steel and stainless steel), used for hanging and sealing filter bags of the internal filtration type.



Clamp

Made by stamped steel bands (plain carbon steel and stainless steel), used for filter and sealing filter bags.



Spring

Made by imported stainless steel wire wound with strict heat treatment.



Chain/Spring Assembly

Include hanging rod, chain and tension spring or compression spring with multiple models, used for hanging filter bag of the internal filtration type on the beam of bag filter and generating tension for the bag.



图 30 Outline dimension drawing of bag cap

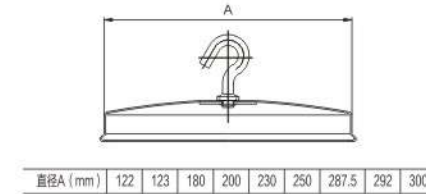
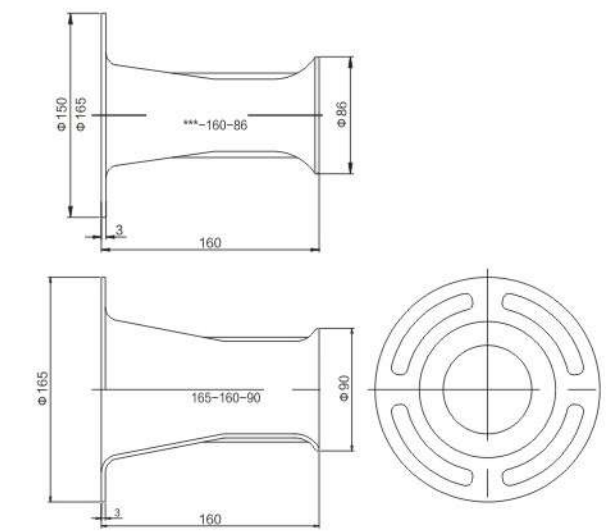
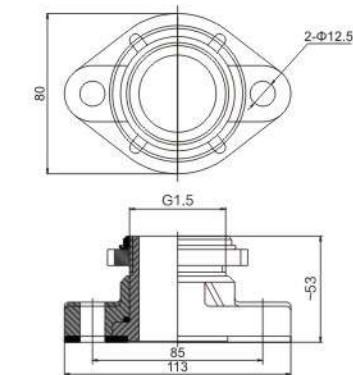


图 31 Outline dimension drawing of Venturi



Rotating flange seat

BD-G1.5



- Screw the internal thread at one end of the air inlet of the right angle valve into the external thread of the flat bag flange outlet pipe, and screw it to the required height, and then use the compression nut to control it.
- Adjust the air outlet end of the installed valve to the required position (insert the crescent wrench into the small hole on the side of the air outlet of the flat bag flange for rotary adjustment).
- After all the positions of the installed valves are adjusted, tighten the bolts on both sides of the flat bag flange.