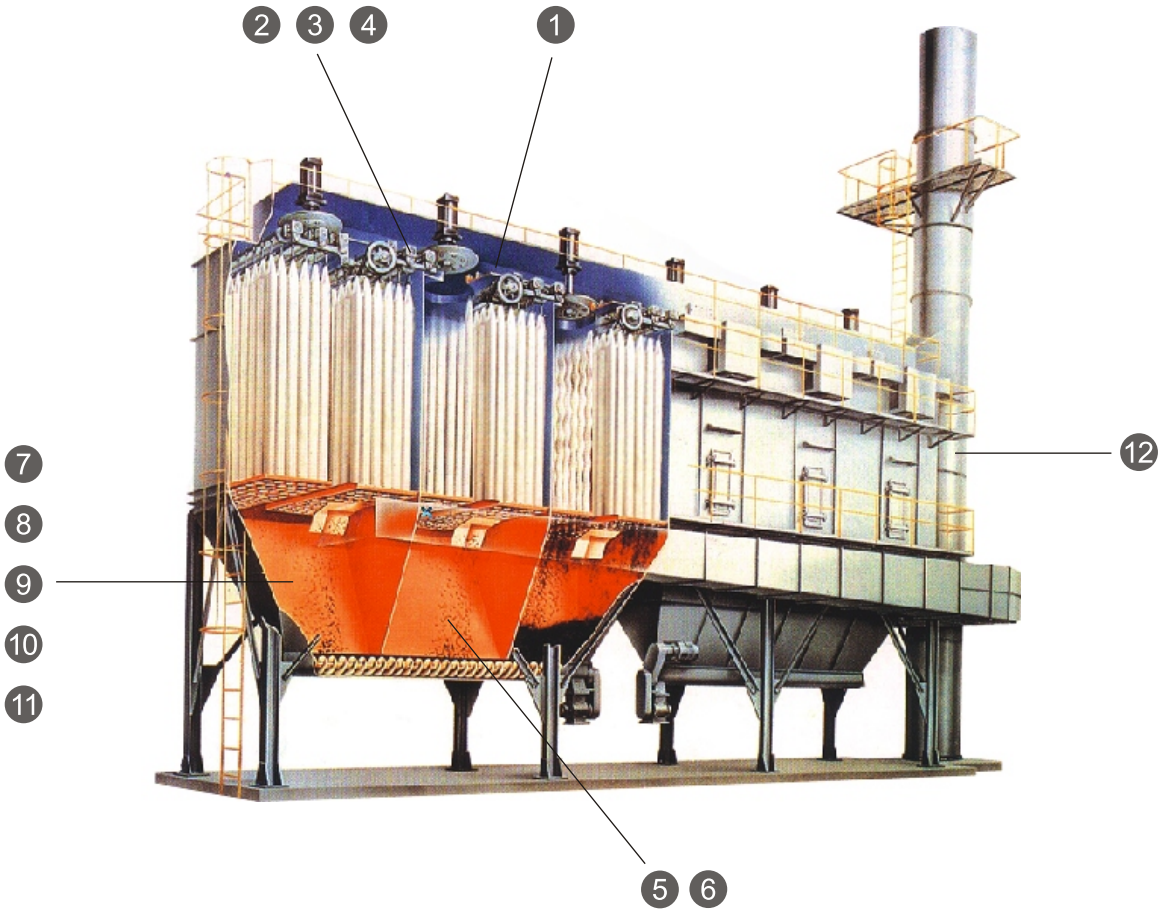
Valve And Controller For Dust Collector System

FineTek
Your Made-To-Order Solutions



1. Controller For Dust Collector System
2. Diaphragm Valve
3. Remote Solenoid Pilot
4. Remote Solenoid Enclosure
5. Air Hammer
6. Pneumatic Vibrator
7. Capacitance Level Switch
8. Rotary Paddle Level Switch
9. Tuning Fork Level Switch
10. Vibrating Probe Level Switch
11. RF Capacitance admittance Level Switch
12. Snifter dust monitor

PRODUCT INFORMATION

WORKING PRINCIPLE

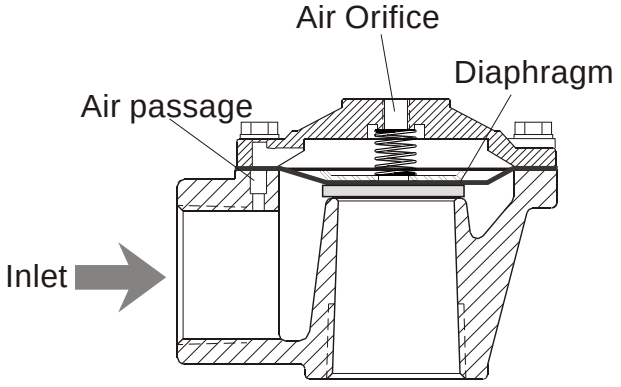
The diaphragm valves are used specifically in the dust collector system. The valve consists of 2 air chambers divided by a piece of diaphragm. The 2 chambers are connected through an air passage (air passage's diameter is smaller than the orifice of the pilot valve). When the orifice opens, the air in the upper chamber is exhausted much faster than the speed of air that enters through the air passage. The air pressure of the upper chamber drops significantly, the higher pressure of the lower chamber pushes the diaphragm up and opens a bigger passage for air to enter into the bottom chamber. This sudden burst of air is used to inflate the fabric filter so as to shake off all the dust clinging on the bag filter. When the orifice closes, the pressure in both chambers equalizes and the diaphragm returns to its original position via the force of the coiled spring.

FEATURES

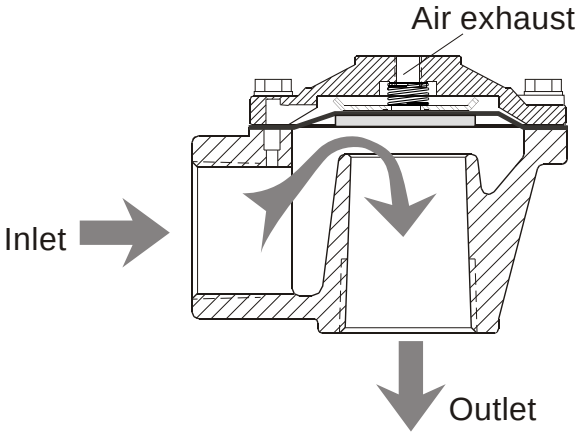
- Fast response, large flow volume, effective cleaning action on fabric filter
- Low air consumption
- Compatible with programmable sequential controller
- Ease of adjustment in jet pulse timing and duration

APPLICATION

Most reverse pulse jet dust collector installations and their variations including bag filters, cartridge filters, envelope filters, ceramic filters, and sintered metal fibre filters.



A Closed position



B Open position

DIAPHRAGM VALVES WITH THREADED CONNECTIONS

AS/BS TYPE

BDV-20BS

BDV-20AS□C□

BDV-25BS

BDV-25AS□C□

BDV-40BS

BDV-40AS□C□

DESCRIPTION

Fast response, large flow volume, effective cleaning action on fabric filter.
Low air consumption.
Compatible with programmable sequential controller.
Ease of adjustment in jet pulse timing and duration.

CONSTRUCTION

Cover : Aluminum
Body : Aluminum

GENERAL FEATURES

Fluids : Air
Diaphragm material : Specially Plastics
Operation temp. : -20 ~ 85°C
Ambient temp. : -20 ~ 60°C

ELECTRICAL FEATURES

Coil insulation : Class F (155°C)
Connector spec. : Flying leads (DIN 43650A)
Electrical equipment : EN 60204.1 and VDE 0580
Electrical protection : IP65 (EN 60529)
Standard voltages : 24Vdc ± 10%,
110Vac ± 10%, 50/60Hz
220Vac ± 10%, 50/60Hz
Power consumption : 12W for 24Vdc
AC---17VA/50Hz
AC---14.5VA/60Hz
Ambient temp. : -20 ~ 50°C

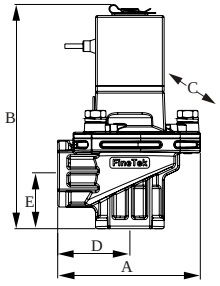
SPECIFICATION

Model	Orifice (inch)	Number (Diaphragm)	Flow factor Kv (m^3/h)	Flow factor Cv (gal/min)	Operating pressure (Bar)	Weight (kg)
BDV-20AS□C□	3/4"	1	12.04	14	0.3 ~ 8.6	470
BDV-20BS	3/4"	1	12.04	14	0.3 ~ 8.6	220
BDV-25AS□C□	1"	1	19.78	23	0.3 ~ 8.6	620
BDV-25BS	1"	1	19.78	23	0.3 ~ 8.6	370
BDV-40AS□C□	1-1/2"	1	36.12	42	0.3 ~ 8.6	930
BDV-40BS	1-1/2"	1	36.12	42	0.3 ~ 8.6	680

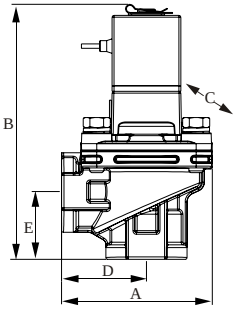
DIAPHRAGM VALVES WITH THREADED CONNECTIONS

AS/BS TYPE

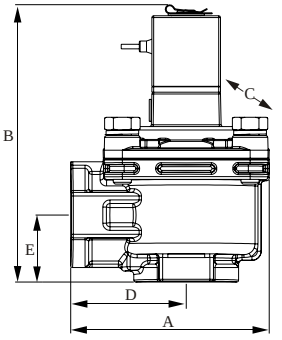
Model: BDV-20AS□



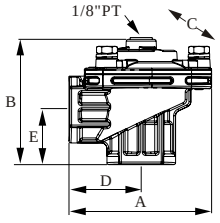
Model: BDV-25AS□



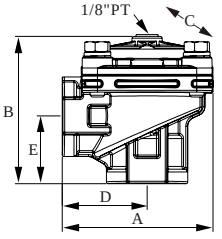
Model: BDV-40AS□



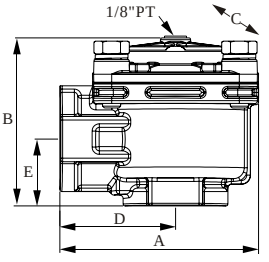
Model: BDV-20BS



Model: BDV-25BS



Model: BDV-40BS



Model No.	A		B		C (wide)		D		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
BDV-20AS□C□	3.11	79	4.88	124	2.87	73	1.57	40	1.22	31
BDV-20BS	4.62	79	2.75	70	2.87	73	1.57	40	1.22	31
BDV-25AS□C□	3.3	84	5.55	141	2.87	73	1.85	47	1.49	38
BDV-25BS	3.3	84	3.22	82	2.87	73	1.85	47	1.49	38
BDV-40AS□C□	4.33	110	6	153	3.62	92	2.52	64	1.45	37
BDV-40BS	4.33	110	3.66	93	3.62	92	2.52	64	1.45	37

ORDER INFORMATION

BDV-□□ □ □ Q(C□)

Connection size

20: 3/4" 25: 1" 40: 1-1/2"

Body material

A: Aluminum (Integrated type) B: Aluminum (Remote type)

Connection type

S: Female-thread

Diaphragm material

Q: Plastics

Power Supply for integrated pilot

Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

FineTek

DIAPHRAGM VALVES WITH THREADED CONNECTIONS

SC TYPE

BRD-20SC

BRD-25SC

BRD-25SC□

BRD-42SC

BRD-52SC

DESCRIPTION

The range of SC Series comprises 7 models, from 3/4" to 3", all with threaded female gas connections. The special design assure an extremely fast opening time, high flow rates and easy installation.

CONSTRUCTION

Cover	: Aluminum
Body	: Aluminum

GENERAL FEATURES

Fluids	: Air filtered and oil free air
Diaphragm material	: NBR
Operation temp.	: -20 ~ 85°C
Ambient temp.	: -20 ~ 60°C

ELECTRICAL FEATURES

Coil insulation	: Class F (155°C)
Connector spec.	: Flying leads (DIN 43650A)
Electrical equipment	: EN 60204.1 and VDE 0580
Electrical protection	: IP65 (EN 60529)
Standard voltages	: 24Vdc ± 10%, 110Vac ± 10%, 50/60Hz 220Vac ± 10%, 50/60Hz
Power consumption	: 12W for 24Vdc AC---17VA/50Hz AC---14.5VA/60Hz
Ambient temp.	: -20 ~ 50°C

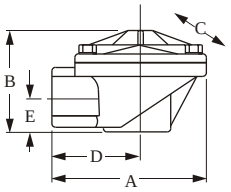
SPECIFICATION

Model	Orifice (inch)	Number (Diaphragm)	Kv Factor (m^3/h)	Cv factor (gal/min)	Operating pressure (Bar)	Weight (kg)
BRD-20SC□	3/4" PT	1	12.04	14	0.3 ~ 8.6	0.51
BRD-25SC□	1" PT	1	19.78	23	0.3 ~ 8.6	0.40
BRD-40SC□	1-1/2" PT	1	36.12	42	0.3 ~ 8.6	0.91
BRD-42SC□	1-1/2" PT	2	43.86	51	0.3 ~ 8.6	1.0
BRD-52SC□	2" PT	2	91.16	106	0.3 ~ 8.6	1.9
BRD-62SC□	2-1/2" PT	2	116.96	136	0.3 ~ 8.6	2.5
BRD-72SC□	3" PT	2	143.62	167	0.3 ~ 8.6	3.0

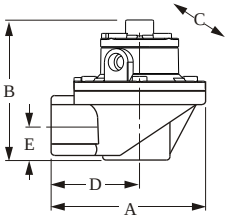
DIAPHRAGM VALVES WITH THREADED CONNECTIONS

SC TYPE

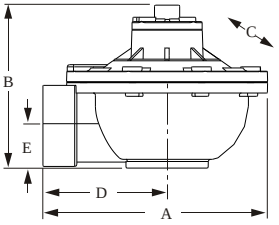
Model: BRD-□□SC



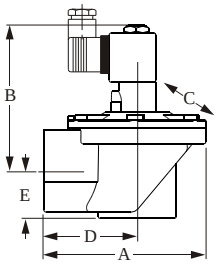
Model: BRD-42SC



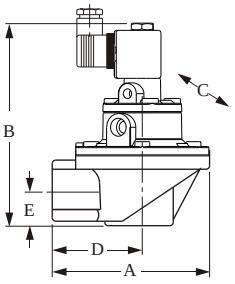
Model: BRD-□2SC



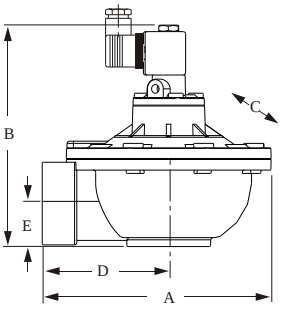
Model: BRD-□□SC□



Model: BRD-42SC□



Model: BRD-□2SC□



Model No.	A		B		C (wide)		D		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	Mm
BRD-20SC	3.95	100	2.97	75	3.44	87	2.19	56	0.78	20
BRD-25SC	4.13	105	3	76	3.25	83	2.50	64	0.87	22
BRD-40SC	5.12	130	4.91	125	4.37	111	4.5	75	1.28	36
BRD-42SC	5.12	130	5.16	131	4.37	111	4.5	75	1.28	36
BRD-52SC	8.07	205	5.87	149	7.24	184	4.45	113	1.55	40
BRD-62SC	8.27	210	6.69	170	7.24	184	4.65	118	1.89	48
BRD-72SC	8.58	218	7.83	199	7.87	200	4.65	118	2.48	63
BRD-20SC□	3.95	100	4.8	122	3.44	87	2.19	56	0.78	20
BRD-25SC□	4.13	105	4.96	126	3.25	83	2.50	64	0.87	22
BRD-40SC□	5.12	130	6.06	154	4.37	111	4.5	76	1.28	36
BRD-42SC□	5.12	130	7.20	183	4.37	111	4.5	75	1.28	36
BRD-52SC□	8.07	205	7.91	201	7.24	184	4.45	113	1.55	40
BRD-62SC□	8.27	210	8.74	222	7.24	184	4.65	118	1.89	48
BRD-72SC□	8.58	218	9.88	251	7.87	200	4.65	118	2.48	63

ORDER INFORMATION

BRD- □□ SC □

Connection size

Single diaphragm---- 20: 3/4" PT 25: 1" PT 40: 1-1/2" PT
Double diaphragm--- 42: 1-1/2" PT 52: 2" PT 62: 2-1/2" PT 72: 3" PT

Power Supply for integrated pilot

Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

DIAPHRAGM VALVES WITH OUTER THREADED CONNECTIONS

AS/BS TYPE

BDV-20BN

BDV-20AN□C□

BDV-25BN

BDV-25AN□C□

BDV-40BN

BDV-40AN□C□

DESCRIPTION

One piece membrane with better sealing to save air supply.
Compact design for quick installation.
Fewer components for easier maintenance.
Fast response, large flow volume, effective cleaning action on fabric filter.
Low air consumption.
Compatible with programmable sequential controller.
Ease of adjustment in jet pulse timing and duration.

CONSTRUCTION

Cover : Aluminum
Body : Aluminum

GENERAL FEATURES

Fluids : Air
Diaphragm material : Specially Plastics
Operation temp. : -20 ~ 85°C
Ambient temp. : -20 ~ 60°C

ELECTRICAL FEATURES

Coil insulation : Class F (155°C)
Connector spec. : Flying leads (DIN 43650A)
Electrical equipment : EN 60204.1 and VDE 0580
Electrical protection : IP65 (EN 60529)
Standard voltages : 24Vdc
110Vac-50/60Hz
220Vac-50/60Hz
Power consumption : 12W for 24Vdc
AC---17VA/50Hz
AC---14.5VA/60Hz
Ambient temp. : -20 ~ 50°C

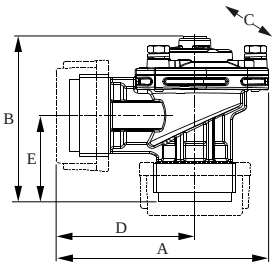
SPECIFICATION

Model	Orifice (inch)	Number (Diaphragm)	Flow factor Kv (m^3/h)	Flow factor Cv (gal/min)	Operating pressure (Bar)	Weight (kg)
BDV-20AN□C□	3/4"	1	12.04	14	0.3 ~ 8.6	470
BDV-20BN	3/4"	1	12.04	14	0.3 ~ 8.6	220
BDV-25AN□C□	1"	1	19.78	23	0.3 ~ 8.6	620
BDV-25BN	1"	1	19.78	23	0.3 ~ 8.6	370
BDV-40AN□C□	1-1/2"	1	36.12	42	0.3 ~ 8.6	930
BDV-40BN	1-1/2"	1	36.12	42	0.3 ~ 8.6	680

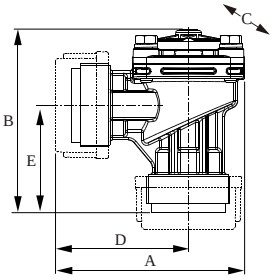
DIAPHRAGM VALVES WITH OUTER THREADED CONNECTIONS

AS/BS TYPE

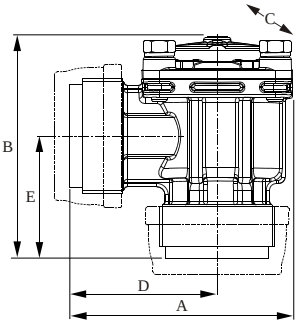
Model: BDV-20BN



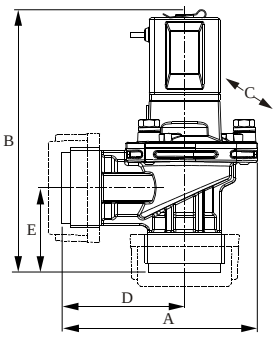
Model: BDV-25BN



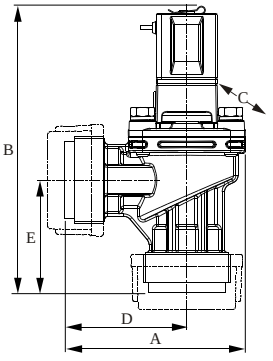
Model: BDV-40BN



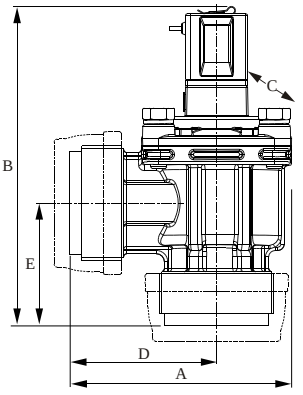
Model: BDV-20AN



Model: BDV-25AN



Model: BDV-40AN



Model No.	A		B		C (wide)		D		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
BDV-20AN□C□	4.13	105	5.55	141	2.87	73	2.60	66	1.79	45.5
BDV-20BN	413	105	3.38	86	2.87	73	2.60	66	1.79	45.5
BDV-25AN□C□	4.43	112.5	7.02	178.5	2.87	73	2.99	76	2.75	70
BDV-25BN	4.43	112.5	4.66	118.5	2.87	73	2.99	76	2.75	70
BDV-40AN□C□	5.35	136	7.69	195.5	3.62	92	3.54	90	2.95	75
BDV-40BN	5.35	136	5.31	135	3.62	92	3.54	90	2.95	75

ORDER INFORMATION

BDV-□□ □ □ □ (C□)

Connection size

20: 3/4" 25: 1" 40: 1-1/2"

Body material

A: Aluminum (Integrated type) B: Aluminum (Remote type)

Connection type

N: Outer- threaded

Diaphragm material

Q: Plastics

Power Supply for integrated pilot

Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

DIAPHRAGM VALVES WITH QUICK FITTINGS

AS/BS TYPE

BRD-20NC

BRD-25NC

BRD-20NC□

BRD-42NC

DESCRIPTION

NC Series is a range of diaphragm solenoid valves for the cleaning of dust collector filters with compressed air. These valves allow a very quick connection, by fitting directly to non-threaded pipes.

CONSTRUCTION

Cover : Aluminum
Body : Aluminum

GENERAL FEATURES

Fluids : Air filtered and oil free air
Diaphragm material : NBR
Operation temp. : -20~ 85°C
Ambient temp. : -20~ 60°C

ELECTRICAL FEATURES

Coil insulation : Class F (155°C)
Connector spec. : Flying leads (DIN 43650A)
Electrical equipment : EN 60204.1 and VDE 0580
Electrical protection : IP65 (EN 60529)
Standard voltages : 24Vdc ± 10%,
110Vac ± 10%, 50/60Hz
220Vac ± 10%, 50/60Hz
Power consumption : 12W for 24Vdc
AC---17VA/50Hz
AC---14.5VA/60Hz
Ambient temp. : -20 ~ 50°C

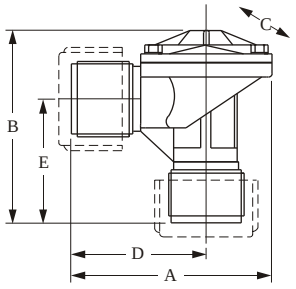
SPECIFICATION

Model	Orifice (inch)	Number (Diaphragm)	Flow factor Kv (m^3/h)	Flow factor Cv (gal/min)	Operating pressure (Bar)	Weight (kg)
BRD-20NC□	3/4" PT	1	12.04	14	0.3 ~ 8.6	0.62
BRD-25NC□	1" PT	1	19.78	23	0.3 ~ 8.6	0.96
BRD-40NC□	1-1/2" PT	1	36.12	42	0.3 ~ 8.6	1.1
BRD-42NC□	1-1/2" PT	2	43.86	51	0.3 ~ 8.6	1.45

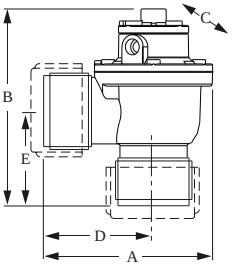
DIAPHRAGM VALVES WITH QUICK FITTINGS

NC TYPE

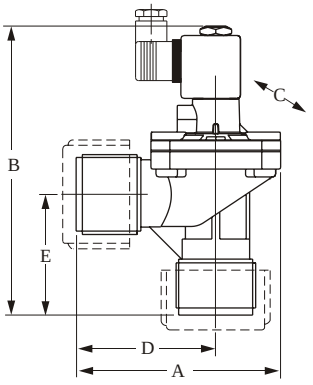
Model: BRD-□□NC



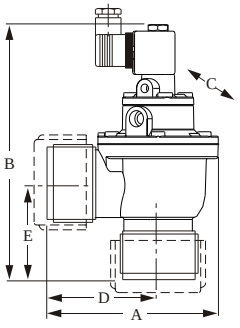
Model: BRD-42NC



Model: BRD-□□NC□



Model: BRD-42NC□



Model No.	A		B		C (wide)		D		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	Mm
BRD-20NC	4.41	112	4	102	3.44	87	2.63	67	1.78	45
BRD-25NC	4.62	117	5	127	3.25	83	3	76	2.75	70
BRD-40NC	5.78	147	5.47	139	4.37	111	3.6	92	3	76
BRD-42NC	5.78	147	6.77	172	4.37	111	3.6	92	3	76
BRD-20NC□	4.41	112	5.83	148	3.43	87	2.63	67	1.87	45
BRD-25NC□	4.62	117	6.96	177	3.25	83	3	76	2.75	70
BRD-40NC□	5.78	147	7.64	194	4.37	111	3.6	92	3	76
BRD-42NC□	5.78	147	8.82	224	4.37	111	3.6	92	3	76

ORDER INFORMATION

BRD- □□ NC □

Connection size

Single diaphragm---- 20: 3/4" PT 25: 1" PT 40: 1-1/2" PT
Double diaphragm--- 42: 1-1/2" PT

Power Supply for integrated pilot

Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

STAINLESS STEEL VALVES WITH THREADED CONNECTIONS

UC TYPE

BRD-25UC□

BRD-40UC□

DESCRIPTION

The range of UC Series includes two models of 1" and 1-1/2", both single diaphragm and threaded female gas connections. These valves are made of Stainless Steel SUS316. These types of diaphragm valves are suitable for installation in very corrosive environments such as chemical industry, nuclear and off-shore plants.

CONSTRUCTION

Cover : Stainless steel SUS316
Body : Stainless steel SUS316

GENERAL FEATURES

Fluids : Air filtered and oil free air
Diaphragm material : NBR
Operation temp. : -20 ~ 85°C
Ambient temp. : -20 ~ 60°C

ELECTRICAL FEATURES

Coil insulation : Class F (155°C)
Connector spec. : Flying leads (DIN 43650A)
Electrical equipment : EN 60204.1 and VDE 0580
Electrical protection : IP65 (EN 60529)
Standard voltages : 24Vdc ± 10%,
110Vac ± 10%, 50/60Hz
220Vac ± 10%, 50/60Hz
Power consumption : 12W for 24Vdc
AC---17VA/50Hz
AC---14.5VA/60Hz
Ambient temp. : -20 ~ 50°C

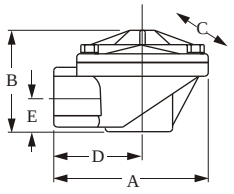
SPECIFICATION

Model	Orifice (inch)	Number (Diaphragm)	Flow factor Kv (m^3/h)	Flow factor Cv (gal/min)	Operating pressure (Bar)	Weight (kg)
BRD-25UC□	1"PT	1	19.78	23	0.3 ~ 8.6	1.8
BRD-40UC□	1-1/2"PT	1	36.12	42	0.3 ~ 8.6	2.7

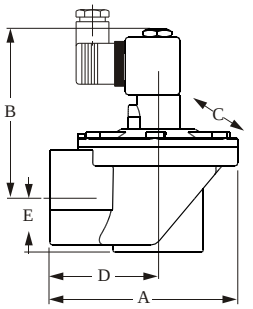
STAINLESS STEEL VALVES WITH THREADED CONNECTIONS

UC TYPE

Model: BRD-□□UC



Model: BRD-□□UC□



Model No.	A		B		C (wide)		D		E	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	Mm
BRD-25UC	4.13	105	3	76	3.25	83	2.50	64	0.87	22
BRD-40UC	3.95	130	4.91	125	4.37	111	4.5	75	1.28	36
BRD-25UC□	4.13	105	4.96	126	3.25	83	2.50	64	0.87	22
BRD-40UC□	3.95	130	6.06	154	4.37	111	4.5	76	1.28	36

ORDER INFORMATION

BRD- □□ UC □

Connection size

25: 1" PT
40: 1-1/2" PT

Power Supply for integrated pilot

Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

" FULL IMMERSION" DIAPHRAGM VALVES

MM TYPE

DESCRIPTION

The MM Series are only suitable for low pressure systems, and are principally used for the cleaning of dust collector filters with compressed air. These valves are designed to be assembled on filters and to be mounted onto a square header tank. They draw the compressed air directly from the tank, with higher pneumatic yield. By request they can be supplied completely with the blow tube. The valve is fixed to the tank with a special counter flange and

CONSTRUCTION

Cover	: Aluminum
Body	: Aluminum

GENERAL FEATURES

Fluids	: Air filtered and oil free air
Diaphragm material	: NBR
Operation temp.	: -20 ~ 85°C
Ambient temp.	: -20 ~ 60°C

ELECTRICAL FEATURES

Coil insulation	: Class F (155°C)
Connector spec.	: Flying leads (DIN 43650A)
Electrical equipment	: EN 60204.1 and VDE 0580
Electrical protection	: IP65 (EN 60529)
Standard voltages	: 24Vdc ± 10%, 110Vac ± 10%, 50/60Hz 220Vac ± 10%, 50/60Hz
Power consumption	: DC-12W for 24Vdc AC---17VA/50Hz AC---14.5VA/60Hz
Ambient temp.	: -20 ~ 50°C

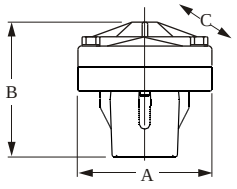
SPECIFICATION

Model	Orifice (inch)	Number (Diaphragm)	Flow factor Kv (m^3/h)	Flow factor Cv (gal/min)	Operating pressure (Bar)	Weight (kg)
BRD-25MM□	1" PT	1	19.78	23	0.3 ~ 8.6	0.35
BRD-42MM□	1-1/2" PT	2	43.86	51	0.3 ~ 8.6	0.65

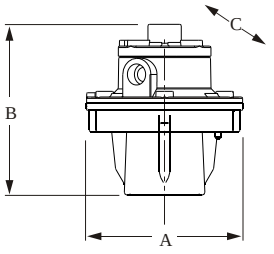
" FULL IMMERSION" DIAPHRAGM VALVES

MM TYPE

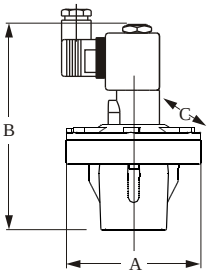
Model: BRD-25MM



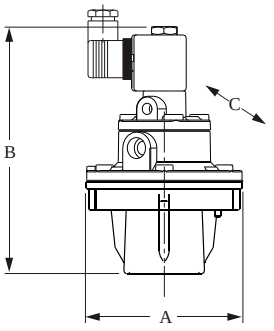
Model: BRD-42MM



Model: BRD-25MM□



Model: BRD-42MM□



Model No.	A		B		C (wide)	
	inch	mm	inch	mm	inch	mm
BRD-42MM	5.78	147	4.88	124	4.37	111
BRD-25MM	5.78	147	6.92	176	4.37	111
BRD-42MM□	4.13	110	4.96	126	3.25	83
BRD-25MM□	5.12	130	5.74	146	4.38	111

ORDER INFORMATION

BRD- □□ MM □

Connection size

25: 1" PT
40: 1-1/2" PT
42: 1-1/2" PT

Power Supply for integrated pilot

Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

REMOTE SOLENOID PILOT

GENERAL FEATURES

Fluids	: Air filtered and oil free air
Diaphragm material	: NBR
Operation temp.	: -20 ~ 85°C
Ambient temp.	: -20 ~ 60°C
Pneumatic tube length	1~3 meters

CONSTRUCTION

Cover	: Aluminum
Body	: Aluminum

ELECTRICAL FEATURES

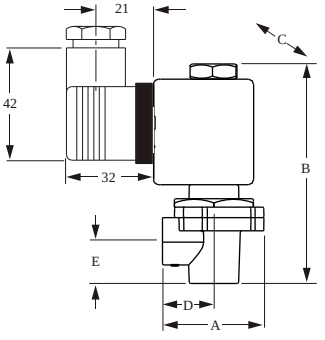
Coil insulation	: Class F (155°C)
Connector spec.	: Flying leads (DIN 43650A)
Electrical equipment	: EN 60204.1 and VDE 0580
Electrical protection	: IP65 (EN 60529)
Standard voltages	: 24Vdc ± 10%, 110Vac ± 10%, 50/60Hz 220Vac ± 10%, 50/60Hz
Power consumption	: 12W for 24Vdc Inrush-----17VA/50Hz Holding---14.5VA/60Hz
Ambient temp.	: -20 ~ 50°C

SPECIFICATION

Model	Connection (inch)	Number (Diaphragm)	Operating pressure (Bar)	Weight (kg)
BDB-V☐	1/8" PT	1	2 ~ 8.6	
BDB-W☐	1/4" PT	1	2 ~ 8.6	

※ ☐ Please select and fill from 1~7
Lead wire---------- 1: 110Vac 2: 220Vac 3: 24Vdc
DIN connector---- 5: 110Vac 6: 220Vac 7: 24Vdc

Model: BDB-V (W) ☐



REMOTE SOLENOID ENCLOSURE

ENCLOSURE

DESCRIPTION

The Enclosure casing is IP65 approved. Each solenoid pilot, energized in sequence, commands a corresponding Remote pilot type diaphragm valve, by way of 6mm. Pneumatic tube being less than 3 meters in length. The enclosure casings are complete with fixing brackets. All common terminals are pre-wired, The solenoid base is made of extruded aluminum, while the cover is in die-cast aluminum. With anodised surface treatment for protection against aggressive circumstances.

CONSTRUCTION

Cover	: Aluminum
Base	: Aluminum
Plunger	: Stainless steel
Spring	: Stainless steel
Gasket	: NBR

GENERAL FEATURES

Fluids	: Air filtered and oil free air
Diaphragm material	: NBR
Operation temp.	: -20 ~ 85°C
Ambient temp.	: -20 ~ 60°C

Pneumatic tube length 1~3 meters

ELECTRICAL FEATURES

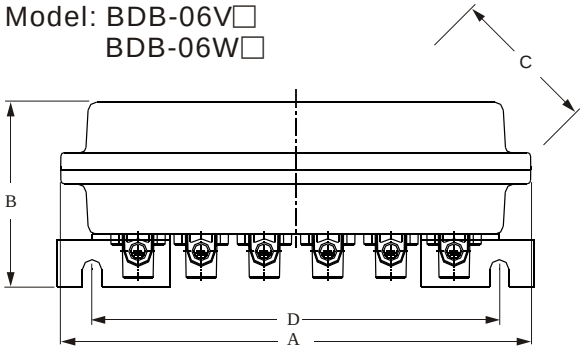
Coil insulation	: Class F (155°C)
Connector spec.	: Flying leads (DIN 43650A)
Electrical equipment	: EN 60204.1 and VDE 0580
Electrical protection	: IP65 (EN 60529)
Ambient temp.	: -20 ~ 50°C

SPECIFICATION

Model	Pneumatic Connection	Electrical Connection (NPT)	Number Solenoid valve		Operating pressure (Bar)	Weight (kg)
BDB-06V☐	1/8" PT	3/4"x 1 hole	6	2,3,4,5,6	0.3 ~ 8.6	
BDB-12V☐	1/8" PT	3/4"x 1 hole	12	7,8,9,10,11,12	0.3 ~ 8.6	
BDB-06W☐	1/4" PT	3/4"x 1 hole	6	2,3,4,5,6	0.3 ~ 8.6	
BDB-12W☐	1/4" PT	3/4"x 1 hole	12	7,8,9,10,11,12	0.3 ~ 8.6	

REMOTE SOLENOID ENCLOSURE

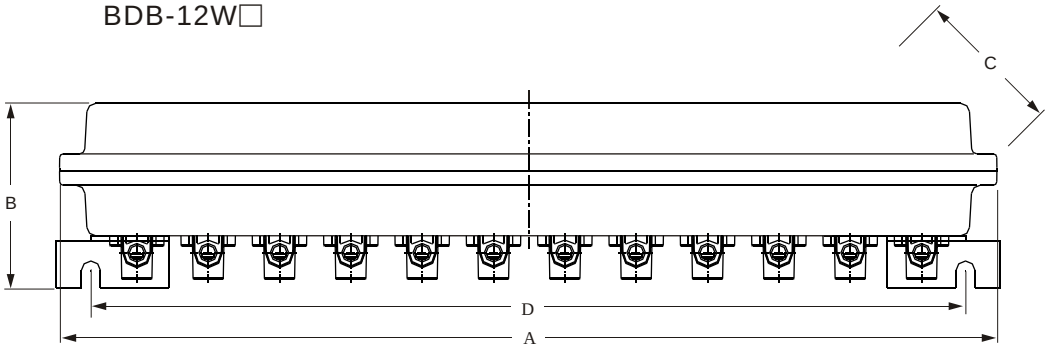
Model: BDB-06V□
BDB-06W□



Model No.	Quantity of Solenoid	A(mm)	B(mm)	C(mm)	D(mm)
BDB-06V□	6	270	106	160	234
BDB-12V□	12	480	106	160	446
BDB-06W□	6	270	106	160	234
BDB-12W□	12	480	106	160	446

※ □ Please select and fill from 1~3
Power Supply: (1: 110Vac 2: 220Vac 3: 24Vdc)
※ W --- Explosion proof type (NEPSI PROOF No.GYJ081157 DIP A20TA,T6)
V --- Non-Explosion proof type

Model: BDB-12V□
BDB-12W□



BULKHEAD CONNECTORS

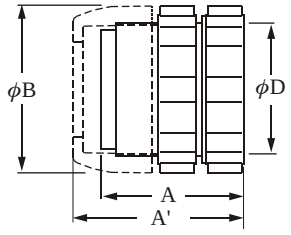
DESCRIPTION

These components eliminate the requirement of welding and allow easy removal of cleaning systems and blowtubes for maintenance purposes.

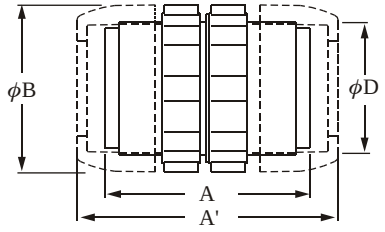
CONSTRUCTURE

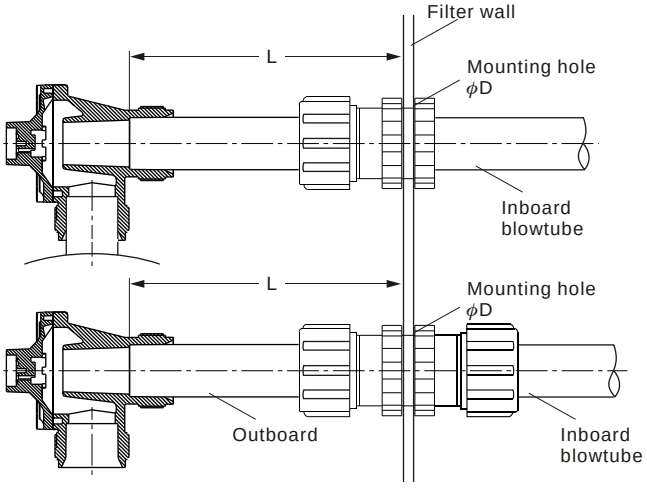
DIN Nut : Aluminum
Body : Aluminum
Ring Nut : Aluminum
Washer : SS41
Conical Gasket : NBR (standard)
VITON (optional)

Model: BDB-□□D

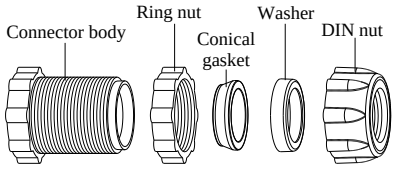


Model: BDB-□□DD

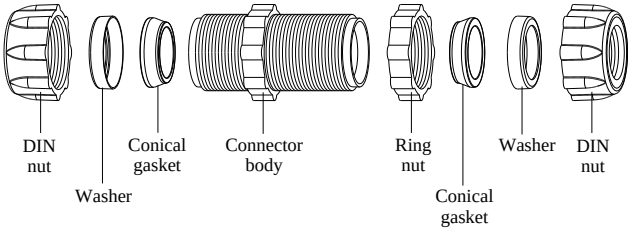




BDB-□□D



BDB-□□DD



Model No.	Orifice	A(mm)	A'(mm)	ϕB(mm)	ϕD(mm)
BDB-20D	3/4"	60.5	70	58.5	45~51
BDB-20DD	3/4"	91	110	58.5	45~51
BDB-25D	1"	69	80	70	56~62
BDB-25DD	1"	101	123	70	56~62
BDB-40D	1-1/2"	75	90	88	72~78
BDB-40DD	1-1/2"	108	138	88	72~78

PROGRAMMABLE SEQUENTIAL CONTROLLER

AE110A / 120A / 140A

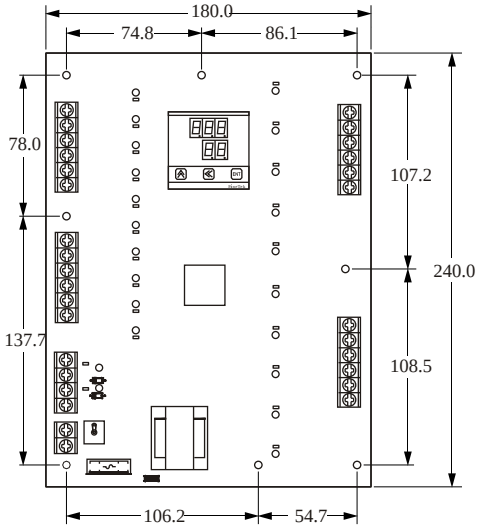
The programmable sequential controller is designed specifically for use with pneumatic dust collector systems. It is used to control the solenoid of the diaphragm valve in order to program the pulse jet sequence of the valves. LED lights serve as indication of status for pulse position and timing. Both the pulse jet timing and duration of each pulse jet could be adjusted by the logic circuitry. The controller has 2 independent "ON" and "OFF" methods, the 1st is when the AC power supply is turn off, the controller will shut down. When the AC supply is reconnected, the controller will automatically revert to its initial default settings. The 2nd method is to employ the use of the controller's remote contacts (R,C,A) as the controlling signal.

SPECIFICATIONS

1. Power supply: 110V/220V, ±20%
   50Hz/60Hz
2. Interval adjustable range: 1s~999s
3. Spray time adjustable range: 10ms~9.99s
4. Fuse: 3A
5. Number of sequence: 1~10 / 20 / 40 points
6. Ambient temperature : -10~60°C
7. Indication: 2 Sets of digital display
8. Input: 3 Push buttons
9. Delay switch: 0~99 times
12. Dimension: AE110A--- 160x160mm
    AE120A--- 180x240mm
    AE140A--- 205x265mm

***CASE(Optional Part)**

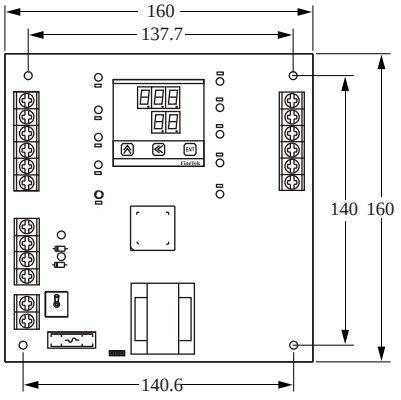
***AE120A**



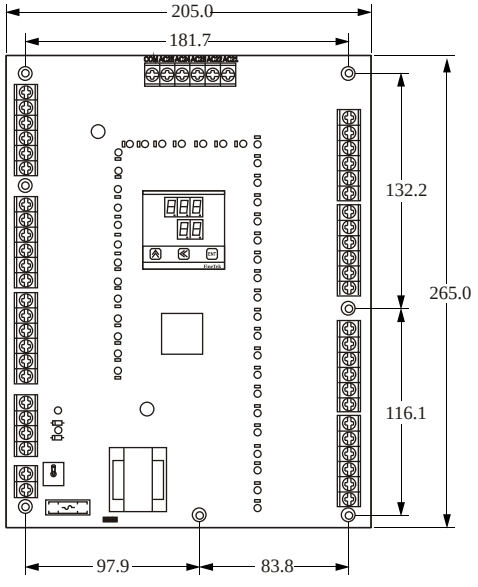
FEATURES

- Digital Display, provides ease of operation and display of operation status.
- Operating by Microprocessor: Accurate and precise operation.
- Remote Control: Convenient control through remote control.
- Able to automatically execute the pulse jet cycle even after the system shuts down so as to prevent residue sticking unto bag filter.
- Water-proof and dust-proof enclosure, to extend lifespan of the controller. (Optional)

***AE110A**



***AE140A**



FineTek

PRESSURE DIFFERENTIAL CONTROLLER FOR DUST COLLECTOR

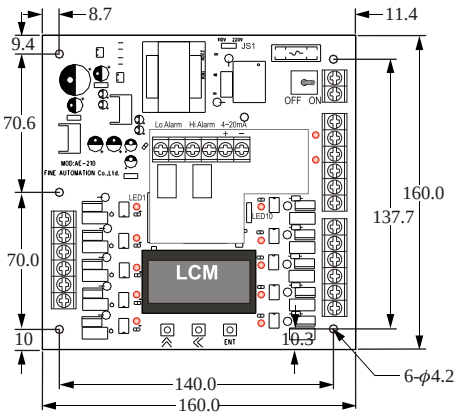
AE-210 / 220 / 240

The pressure differential controller is designed to be utilized in dust collector systems. It uses the pressure difference between air intake and exhaust to control on/off for solenoid valves based on pressure differential set value and time interval.

FEATURES

- LCD display allows the users to obtain up-to-date operation status.
- Microprocessor control gives high time accuracy.
- Remote control.
- RS485 Modbus communication protocol.

***AE-210**

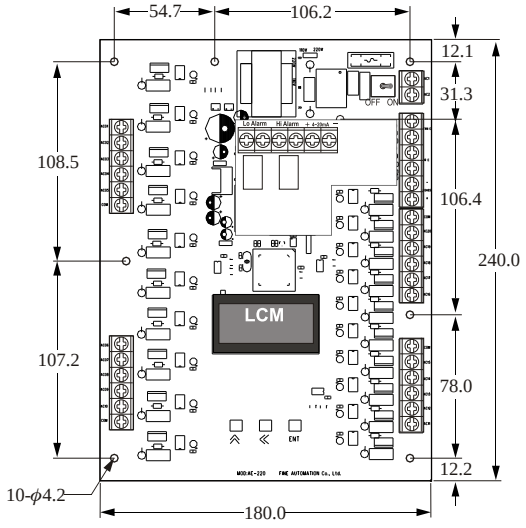


SPECIFICATIONS

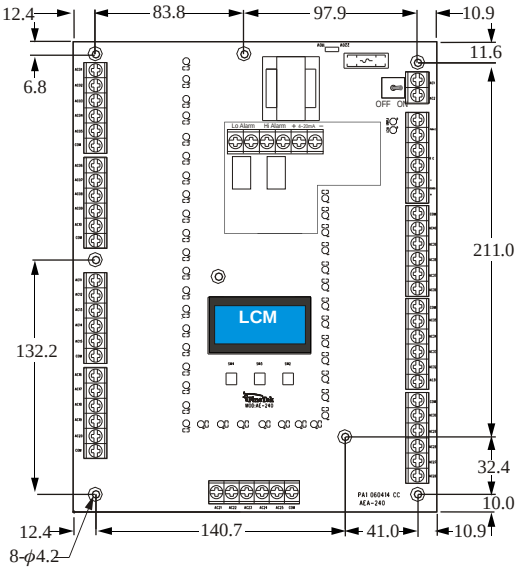
1. Power supply: 110V/ 220 Vac ± 20%, 50/ 60Hz
2. Operating Temperature: -10～60°C
3. Operating Humidity: 20～80%
4. Accuracy: 3% F.S.
5. Display: LCM Dotmatrix 8x2
6. Dial: 3 push buttons
7. Spray Time Range: 10mSec～9.99Sec
8. Interval Range: 1Sec～999Sec
9. Number of Sequence: 10/ 20/ 40 (Option)
10. Output: Transistor
11. Operating Range: 200 VA
12. Pressure Differential:
    Max.20/ 60/ 100/ 1000 mBar (Option)
13. Measurement Unit: mBar / Kpa / psi / cmH_2O
14. Alarm setup: High/low alarm set point
15. Alarm Output:
    2 sets of relay output
    SPDT-ON: 3A / 250Vac; 3A/30Vdc
16. Analog output:
    4～20mA, max. Load 500 (Option)
17. Communication protocol: RS 485 Modbus
18. Memory: By EEPROM
19. Dimension: AE-210(10 points)--- 160x160mm.
    AE-220(20 points)--- 180x240mm.
    AE-240(40 points)--- 205x265mm.

***CASE(Optional Part)**

***AE-220**



***AE-240**



FineTek

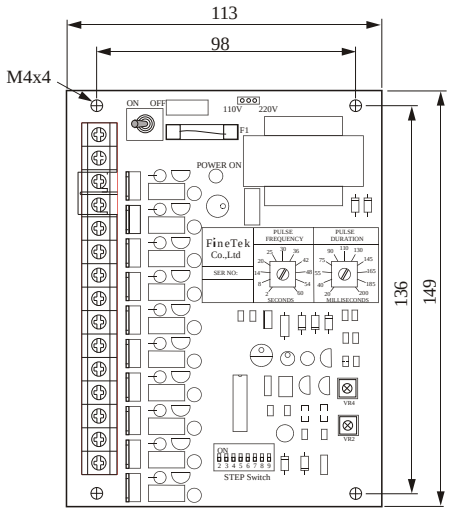
SEQUENTIAL CONTROLLER

SPECIFICATIONS

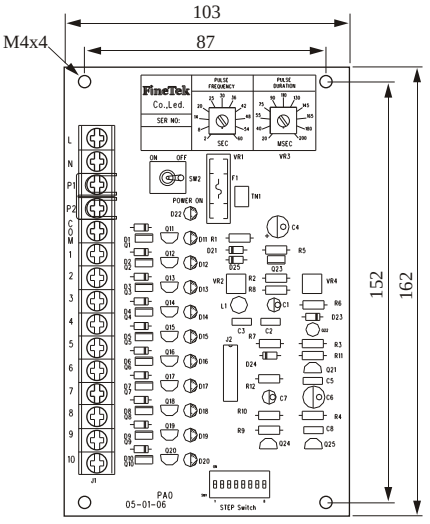
1. Power supply: AE410A---110V/220Vac, ±20% 50Hz/60Hz
   AE520D---24Vdc
2. Interval adjustable range: 2~60s
3. Spray time adjustable range: 20ms~200ms
4. Fuse: 3A
5. Ambient temperature : 0 ~50℃
6. Indication: 2 Sets of digital display
7. Input: 3 Push buttons

***CASE(Optional Part)**

***AE410A**

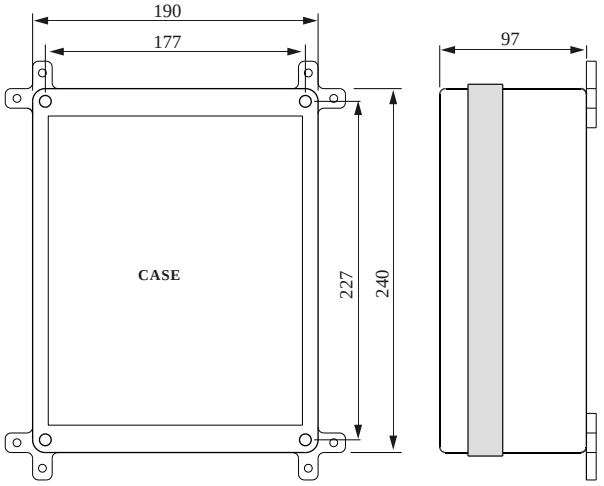


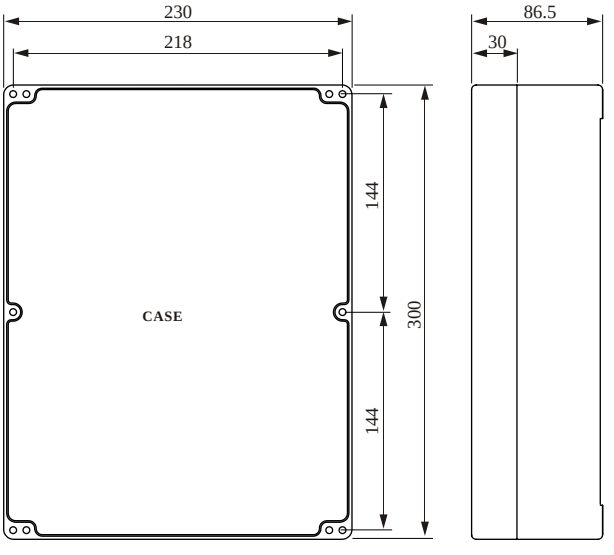
***AE520D**



外　箱

透明上蓋**: PC**
外殼底座**: ABS**





AE611/621 programmable sequential controller (Panel Type)

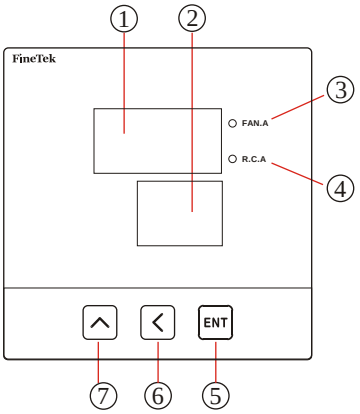
Application and features

Programmable sequential controller is designed to control airing electro-magnetic valve using micro processor. There are 2 sets of digital display. One is to indicate the action point to wash cloth pipe. The other is to indicate remaining time to wash next set of cloth pipe. Jetting time, jetting interval, controlling points tor airing electro-magnetic valve are adjustable with memory function even after shut-down. User may do setting from panel. It is widely applied and user-friendly.

Spec.

- Power: 100~240Vac±10% ,50Hz/60Hz
- Range of jetting interval: 1~999 S
- Range of jetting time: 10 ms~9.99 S
- Fuse: 3A
- Sequential stepping: 1~10/ 20 point
- Output rating: 200VA/ 1.2A
- Working temp: -20~60°C
- Display: sets of digital display
- Input typ: 3 buttons
- Output type: silicon controlled rectifier
- Cycle washing times after shut-down: 0~99 times
- Reliability test: compliant with IEC60947, IEC60092
- Mechanical stress test: compliant with IEC60068
- Ambient stress test: compliant with IEC60529, IEC60068
- EMS test: compliant with IEC61000

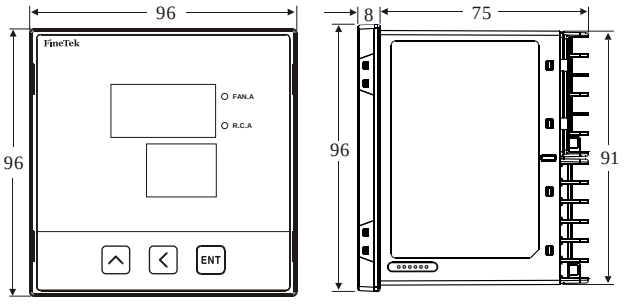
Operation interface description



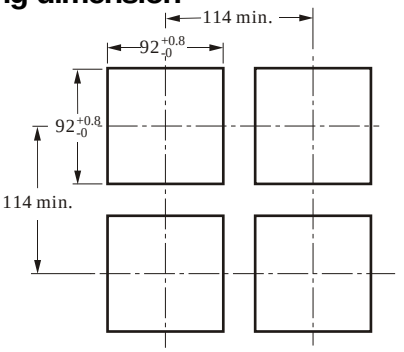
① upper display
② lower display
③ When FAN.Acontact is short-circuited, LED switches on. When FAN. A contactis open, LED switches off.
④ When R.C.Acontact is short-circuited, LED switches on. When R.C.A contact is open, LED switches off.
⑤ Enter key ENT
⑥ Shift key
⑦ Add key

Dimension

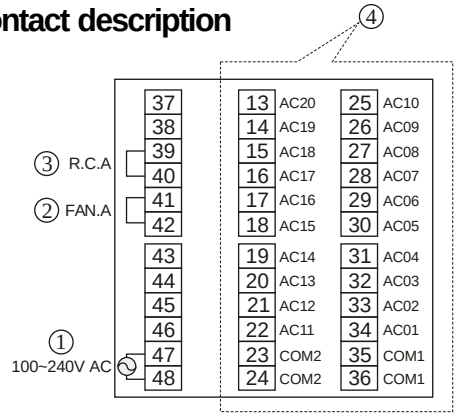
***AE611/ 621**



Opening dimension



Contact description



① Power terminal: terminal 47, 48
② Exhaust fan control input (FAN.A): Terminal 41, 42. This is keep dusting off even after exhaust fan shuts down. When input contact of exhaust fan is short-circuited, controller would operate based on setting. When input contact of exhaust fan is open, controller would auto close in cycle based on CLC setting to prevent block by dust inside cloth pipe.
③ Remote control contact (R.C.A): Terminal 39, 40 should remove short-circuited chip to do remote control. Then wiring to remote end to do remote control. When remote control contact is open, sequential controller stops working. When remote control contact is short-circuited, sequential controller is back to normal and control from first point.
④ Output terminal: Terminals connect to COM1 and COM2 as mutual contact valve.

FineTek

AIR HAMMER

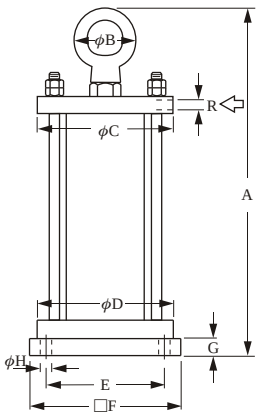
BAS Series

Model No.	Pressure Used	Air Comsumption	Impact Power	Weight
BAS-80	4-5 kg/cm^2	0.46ℓ/e.t	20.8 kg.m/s	19 kg
BAS-100	5-7 kg/cm^2	1.01ℓ/e.t.	30 kg.m/s	35 kg

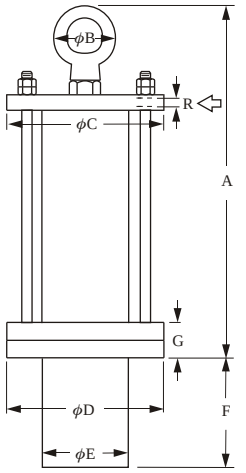
*e.t. : every time

Model No.	A	B	C	D	E	F	G	H	R
BAS-80	400	70	155	155	134	172	17	13.5	3/8"
BAS-100	590	70	210	210	170	210	46	21	3/8"

BAS-80



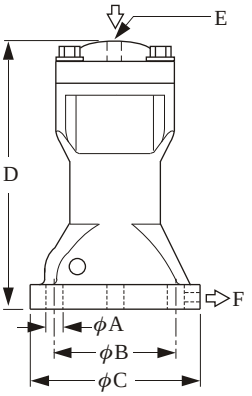
BAS-100



BAH Series (Single Impact)

The single impact model of Air Hammer imparts on one specific target sport on limited target.
Air Hammer impact will not separate water out of humid mixtures.
It is often applied onto pipe or elbow clean and tank filled with humidity or small S.G. Material.

Model No.	A	B	C	D	E	F	Useful pressure	Air consumption	Impact	Weight
BAH-30	9	60	80	138	1/4" PT	1/8" PT	3~6 kg/cm^2	0.028 l/e.t.	1.0 kg.m/s	1.1kg
BAH-40	11	75	100	166	1/4" PT	1/8" PT	3~6 kg/cm^2	0.082 l/e.t.	2.8 kg.m/s	1.8kg
BAH-60	15	105	140	208	1/4" PT	1/8" PT	4~7 kg/cm^2	0.228 l/e.t.	7.4 kg.m/s	4.0kg
BAH-80	19	140	172	269	3/8" PT	1/4" PT	4~7 kg/cm^2	0.455 l/e.t.	12.5 kg.m/s	8.4kg



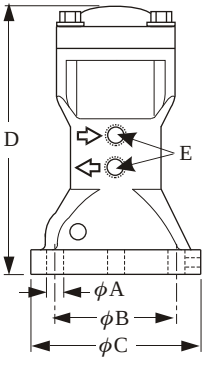
BVP Series (Reciprocate)

BVP - S series: Impacting Model
BVP - C series: Suspended Model

Model No.	A	B	C	D	E
BVP-30C/S	9	60	80	138	1/8" PT
BVP-40C/S	11	75	100	166	1/4" PT
BVP-60C/S	15	105	140	208	1/4" PT

Air cushioned type, low noise character. It is a good solution to shake off attachment on the tank wall and for application that requires quietness. Also, it can be designed to apply on vibrating separator, and conveyer.

Direct impact of piston impact type can get rid of rust and material attachment inside the pipes, and low S.G, high moisture material, and material built-up in the tank.

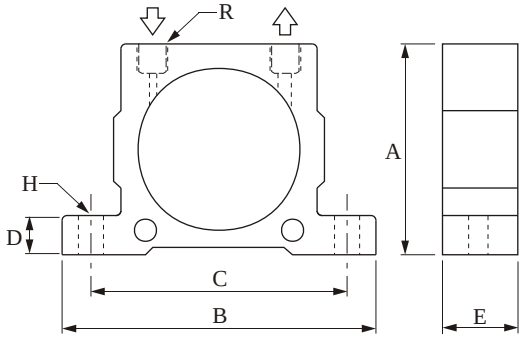


Model No.	Frequency (V.P.M.)			Force (N)			Air consumption (l / min)	weight
	2kg/cm^2	4kg/cm^2	6kg/cm^2	2kg/cm^2	4kg/cm^2	6kg/cm^2		
BVP-30C	1765	2308	2857	195	380	560	230	0.9 kg
BVP-40C	1333	1677	1875	275	531	715	249	1.9 kg
BVP-60C	1000	1200	1340	404	780	1030	269	4.5 kg
BVP-30S	1900	2800	3500	3600	5400	6200	250	1.0 kg
BVP-40S	1700	2400	3000	6450	8750	9400	270	2.1 kg
BVP-60S	1200	1800	1900	6900	12850	13850	300	4.8 kg

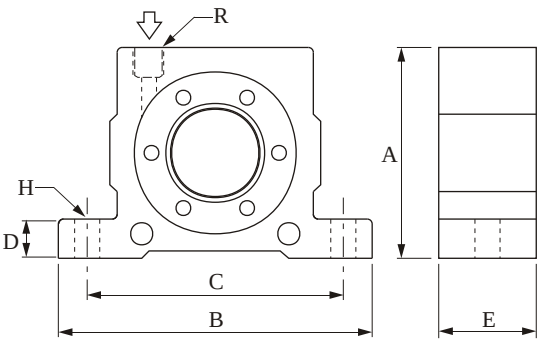
PNEUMATIC VIBRATOR

BVK /BVR /BVT Series

BVK/BVT Series



BVR Series



BVK Pneumatic Ball Vibrator

Its high vibration frequency can prevent material jam in pipe delivery, it can also be applied in bridge-break, concrete injection operation process.

Model No.	Frequency (V.P.M.)			Force (N)		
	2Bar 29PSI	4Bar 58PSI	6Bar 87PSI	2Bar 29PSI	4Bar 58PSI	6Bar 87PSI
BVK-10	22,500	28,000	34,000	250	470	710
BVK-13	15,000	18,500	22,500	320	550	870
BVK-16	13,000	17,000	19,500	450	800	1,100
BVK-20	10,500	14,500	16,500	720	1,220	1,720
BVK-25	9,200	12,200	14,000	930	1,570	2,050
BVK-32	7,800	9,700	12,500	1,510	2,470	3,210
BVR-50	25,000	35,000	36,000	1,070	2,920	4,220
BVR-65	19,000	21,000	26,000	2,730	4,830	6,120
BVR-80	15,500	18,500	19,000	3,000	6,090	7,450
BVR-100	11,000	14,000	16,000	3,750	6,750	8,900

BVK Pneumatic Roller Vibrator

The best choice for bridge-break in thin wall, small tank. This model can be used in vibrating separater, vibrating conveyor, automatic component arrangement, electroplating built-up, protection material packing process, process molding.

Model No.	A	B	C	D	E	H	R
BVK-10	51	86	68	12	20	ϕ7	1/4"PF
BVK-13	67	113	90	16	24	ϕ9	1/4"PF
BVK-16	67	113	90	16	27	ϕ9	1/4"PF
BVK-20	83	128	104	16	33	ϕ9	1/4"PF
BVK-25	83	128	104	16	38	ϕ9	1/4"PF
BVK-32	103	160	130	20	44	ϕ11	3/8"PF
BVR-50	51	86	68	12	29	ϕ7	1/8"PF
BVR-65	67	113	90	16	37	ϕ9	1/4"PF
BVR-80	83	128	104	16	42.5	ϕ9	1/4"PF
BVR-100	103	160	130	20	52	ϕ11	3/8"PF

Unit= mm

BVT Pneumatic turbine Vibrator

Best choice in low noise environment. It is usually installed on vibrating separator, conveyer, automatic arrangement machine, packing machine, filling machine etc.

Model No.	Frequency (V.P.M.)			Force (N)		
	2Bar 29PSI	4Bar 58PSI	6Bar 87PSI	2Bar 29PSI	4Bar 58PSI	6Bar 87PSI
BVT-10	27,500	35,000	37,500	840	1,390	2,400
BVT-13	26,000	30,000	33,000	1,400	2,440	3,730
BVT-16	17,000	21,500	24,000	1,220	2,090	3,160
BVT-20	17,000	20,000	23,000	2,170	4,040	5,520
BVT-25	12,000	15,500	17,000	2,120	3,510	5,070
BVT-32	8,000	10,000	13,000	3,290	5,360	7,149

Model No.	A	B	C	D	E	H	R
BVT-10	51	86	68	12	33	ϕ7	1/8"PT
BVT-13	67	113	90	16	42	ϕ9	1/4"PT
BVT-16	67	113	90	16	42	ϕ9	1/4"PT
BVT-20	83	128	104	16	56	ϕ9	1/4"PT
BVT-25	83	128	104	16	56	ϕ9	1/4"PT
BVT-32	100	160	130	20	73	ϕ11	3/8"PT

CAPACITANCE LEVEL SWITCH

PRINCIPLE

The capacitance level switch measuring principle is based on the "capacitance effects". When this level switch is set on a silo, it will form a condenser between the detector electrode and the silo wall. The capacitance of this condenser varies proportional to the change of material specific inductivity (DK value) of the material stored in the silo. When the material substances increased in the silo, the capacitance value added simultaneously, then it will let his interior circuit's resonant signal to create a bigger amplitude, and such a signal amplitude become more or less than factory default threshold value, the relay device will be energized.

The capacitance value increases as the dielectric increases. Therefore capacitance is proportional to dielectric.

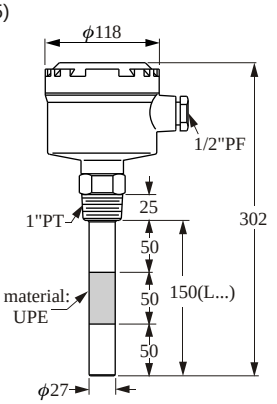
When tank is empty, the dielectric of air is 1. As a tank is filled with medium, the amount of capacitance being generated will be increased. This capacitance increase will be detected by the circuit and relay will be activated.

SPECIFICATIONS

SA110A/B/C

Standard

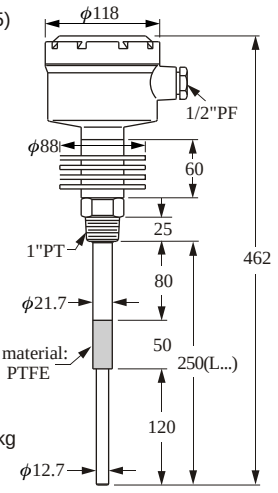
1. Housing material: Aluminum (IP65)
2. Probe material: SUS 304/316
3. Insulated material: UPE
4. Supply voltage:
   110/220Vac ± 10% or 16~24Vdc
5. Output rating:
   Relay: 5A/250Vac or 5A/30Vdc
   ,NPN 100mA
6. Power consumption: 2W
7. Connection:
   1"PT screw (SUS)
8. Operating Temp.: -20~80℃
9. Sensitivity range:
   10pF (std.)
   20pF, 40pf(option)
10. Delay time: 0~6 sec.
11. Approximate weight: Approx. 1.9kg



SA120A/B/C

Hi-temp

1. Housing material: Aluminum (IP65)
2. Probe material: SUS 304/316
3. Insulated material: PTFE
4. Supply voltage:
   110/220VacA10% or 16~24Vdc
5. Output rating:
   Relay: 5A/250Vac or 5A/30Vdc
   ,NPN 100mA
6. Power consumption: 2W
7. Connection:
   1"PT screw (SUS)
8. Operating Temp.: -20~200℃
9. Sensitivity range:
   10pF (std.)
   20pF, 40pf(option)
10. Delay time: 0~6 sec.
11. Approximate weight: Approx. 2.4kg



ROTARY PADDLE LEVEL SWITCH

PRINCIPLE

The Paddle Switch operating principle is simple. A unit is usually located through the bin wall at the top, middle or low level of a bin. During normal operation (no material present) a synchronous motor rotates the paddle at 1 RPM. When this paddle rotation is impeded by the material surrounding the paddle, the motor will stall and cause the Micro switch to change state and indicate an alarm or control condition.

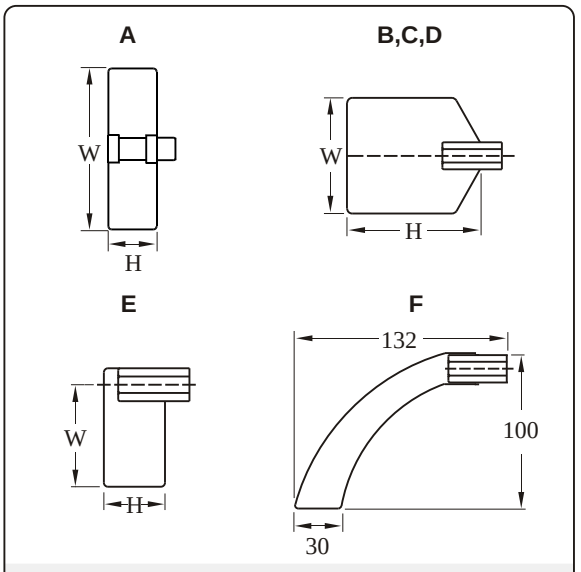
FEATURES

1. Airtight sealing device, outdoor application is available.
2. Unique sealing ring design, it prevents dust ingress to housing along the shaft.
3. The torque force is adjustable.
4. The performance of torsion is stable and reliable.
5. If the rotary paddle bears an extra overload, the motor will be appeared slide to prevent the inside mechanism damaged.
6. It is rationally designed, the inside mechanisms are easily tore down for maintenance and replacement while still on the silo.

APPLICATION

Powders, plastic, chemical, medical, forage, cement and fertilizer powders.

PADDLE SHAPES

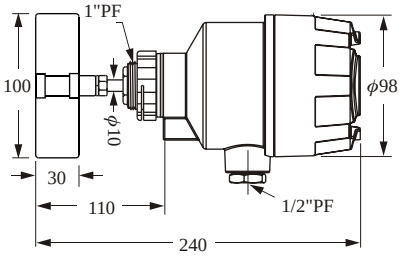


A: 100x30(WxH)
B: 65x80(WxH)
C: 65x120(WxH)
D: 80x80(WxH)
E: 50x30(WxH)
F: Scimatir
S: Others

SPECIFICATIONS

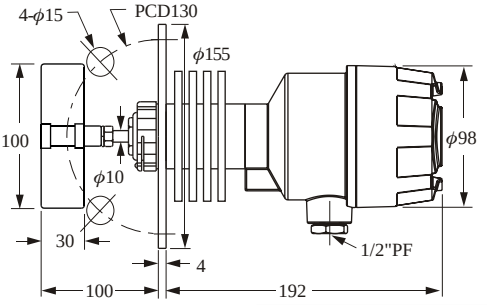
SE110A/B/C/D/E — Thread Type

1. Supply voltage : (A)110/(B)220/(C)240/(D)24Vac, (E)24Vdc, 50/60Hz
2. Power Consumption : 3W
3. Contact rating : AC 250V, 5A, 1SPDT
4. Rotary speed : 1 R.P.M.
5. Torque : 0.5~1.0 kg-cm
6. Connection : 1"PF screw
7. Operation temperature : -20~70°C (Tank inside temp.)
8. Housing material : Aluminum (IP65)
9. Conduit : 1/2"PF
10. Weight : approx. 1.2 kg



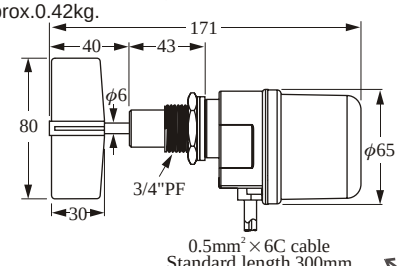
SE140A/B/C/D/E — High Temp.

1. Supply voltage : (A)110/(B)220/(C)240/(D)24Vac, (E)24Vdc, 50/60Hz
2. Power Consumption : 3W
3. Contact rating : AC 250V, 5A, 1 SPDT
4. Rotary speed : 1 R.P.M.
5. Torque : 0.5~1.0 kg-cm
6. Connection : JIS 2-1/2"x 5kg/cm^2 flange
7. Operation temperature : -20~200°C (Tank inside temp.)
8. Housing material : Aluminum (IP65)
9. Conduit : 1/2"PF
10. Weight : approx. 2.1 kg



SE280A/B/C/D

1. Supply voltage : (A)110/(B)220/(C)240/(D)24Vac, 50/60Hz
2. Power Consumption : 1.5W
3. Contact rating : SPDT 5A/250Vac
4. Rotary speed : 1 R.P.M.
5. Torque : 30~100 g-cm
6. Connection : 3/4"PF screw
7. Operation temperature : -20~70°C (Tank inside temp.)
8. Housing material : PC (IP65)
9. Paddle material : PC
10. Suitable S.G.:0.3g/cm^3 (20Lb/ft^3)
11. Weight：approx.0.42kg.



FineTek

TUNING FORK LEVEL SWITCH

PRINCIPLE

The tuning fork of level switch operated by using two piezoelectric elements built-in on vibration tube. The first piezoelectric element triggered by pulse signal that created from circuit to transport vibration energy out, and the other piezoelectric element receives the vibration and transmits it to output electric signal. While the probe contacts material, it will cause the frequency change of output signal and the vibration will hold and send out the relay on at the same time. Tuning fork of level switch provides reliable & maintenance-free for bulk solids. Just a simple mounting and calibration procedure that keep your facility in save and monitoring. This device can withstand fiercely lateral loads and static electricity. For friendly use, Fail-safe is equipped as standard to prevent malfunction caused by power shortage.

FEATURES

1. Sturdy and durable design. No calibration needed.
2. Special design to avoid the accumulation of material on probe.
3. High / Low fail safe modes
4. Field-operatable in sensitivity adjustment to fit Versatile density of material.

APPLICATION

Most materials in powder can be measurable, includes thegrounded coffee, milk power, chocolate, coal ash, bulk, sugar, salt, wheat, grains, glass debris, plastic pellet, cement

Sludge level detection in waste water

Solid Level Detection

- Powdered milk
- Frozen potato chips
- Beans
- Sugar
- Sweets
- Coffee beans
- Coffee ground
- Coffee Powder
- Tea (leaf)
- Salt
- Flour (in a flour mill)
- Foundry sand
- Spices
- Animal food
- Pellets
- Peanuts
- Tobacco
- Wood shavings
- Chalk
- Stearin chips
- Powdered cellulose
- Glass finely ground
- Granular plastics
- Gravel
- Powdered clay
- Polystyrene powder
- Styrofoam
- Soda
- Soot dry

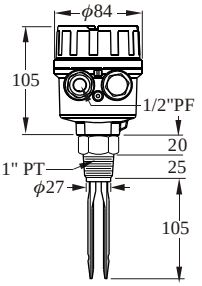
For Liquid:

- Water & Solutions
- General Purpose Solvent
- Petroleum
- Oil
- Heavy oil
- Ink
- Liquid Resist
- Cream
- Drink & Beverage

SPECIFICATIONS

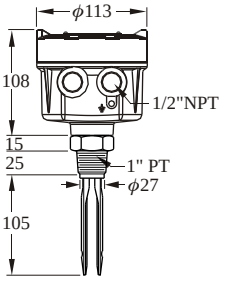
SC3400 — Tuning Fork

1. Housing material: Aluminum (IP65)
2. Probe construction: SUS304/316/316L
3. Connection: 1"PT
4. Conduit: 1/2"PFx2
5. Supply voltage: 20~250, 50/60Hz Vac/Vdc
6. Min. material density sensed: Solid: ≥0.07g/cm³ Liquid: ≥0.7g/cm³ Viscosity:1~10000 cSt
7. Operating temperatures: -40~130°C
8. Ambient temperatures: -40~60°C
9. Operating pressure: -1~150PSI (10Bar)
10. Relay Output: Relay, SPDT, 5A/250Vac/ PNP/NPN(MOSFET) 400mA/60 Vac/Vdc
11. Vibrating Freq.:350~370Hz



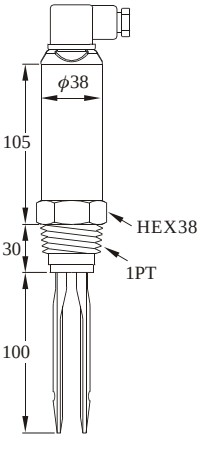
SC1400 — Tuning Fork

1. Housing material: Aluminum (IP65)
2. Probe construction: SUS304/316/316L
3. Connection: 1"PT
4. Conduit: 1/2"NPTx2
5. Supply voltage: 20~250, 50/60Hz Vac/Vdc
6. Min. material density sensed: Solid: ≥0.07g/cm³ Liquid: ≥0.7g/cm³ Viscosity:1~10000 cSt
7. Operating temperatures: -40~130°C
8. Ambient temperatures: -40~70°C
9. Operating pressure: -1~150PSI (10Bar)
10. Relay Output: Relay, SPDT, 5A/250Vac/ PNP/NPN(MOSFET) 400mA/60 Vac/Vdc
11. Vibrating Freq.:350~370Hz



SC24□□ — 100mm

1. Housing material: SUS 304
2. Probe construction: SUS304/316/316L
3. Connection: 1" PT
4. Conduit: Valve plug DIN 43650 Cable connector ASI
5. Supply voltage &output: SC240□: 20~250Vac / Vdc 2 wire Direct load Switching. SC241□: 12~55 Vdc 3 wire PNP/ NPN Output.
6. Fork Length: 100mm
7. Min. material density sensed: Solid: ≥0.07g/cm³ Liquid: ≥0.7g/cm³ Viscosity:1~10000 cSt
8. Operating temperatures: -40~100°C (T: -40~150°C)
9. Ambient temperatures: -40~60°C
10. Storage temperatures: -40~70°C
11. Operation Pressure: 40Bar (Max.)
12. Vibrating Freq.: 355~365Hz



DIN43650 (IP65)

FineTek

VIBRATING PROBE LEVEL SWITCH

PRINCIPLE

The vibrating probe of level switch operated by using two piezoelectric elements built-in on vibration tube. The first piezoelectric element triggered by pulse signal that created from circuit to transport vibration energy out, and the other piezoelectric element receives the vibration and transmits it to output electric signal. While the probe contacts material, the detection signal will be decayed and the vibration will hold and send out the relay on.
Vibrating probe of level switch provides reliable & maintenance-free for bulk solids. Just a simple mounting and calibration procedure that keep your facility in save and monitoring. This device can withstand fiercely lateral loads and static electricity. For friendly use, Fail-safe is equipped as standard to prevent malfunction caused by power shortage.

FEATURES

1. Sturdy and durable design. No calibration needed.
2. Special design to avoid the accumulation of material on probe.
3. High / Low fail safe modes
4. Field-operatable in sensitivity adjustment to fit Versatile density of material.

APPLICATION

Most materials in powder can be measurable, includes thegrounded coffee, milk power, chocolate, coal ash, bulk, sugar, salt, wheat, grains, glass debris, plastic pellet, cement

Sludge level detection in waste water

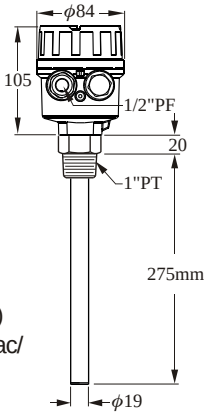
- Powdered milk
- Frozen potato chips
- Beans
- Sugar
- Sweets
- Coffee beans
- Coffee ground
- Coffee Powder
- Tea (leaf)
- Salt
- Flour (in a flour mill)
- Foundry sand
- Spices
- Animal food
- Pellets
- Peanuts
- Tobacco
- Wood shavings
- Chalk
- Stearin chips
- Powdered cellulose
- Glass finely ground
- Granular plastics
- Gravel
- Powdered clay
- Polystyrene powder
- Styrofoam
- Soda
- Soot dry

SPECIFICATIONS

SC3100

Standard

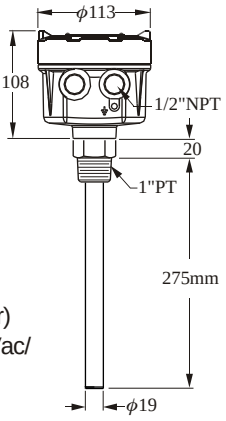
1. Housing material: Aluminum (IP65)
2. Probe construction: SUS304/316
3. Connection: 1"PT
4. Conduit: 1/2"PFx2
5. Supply voltage:
   20~250, 50/60Hz Vac/Vdc
6. Min. material density sensed:
   Solid: ≥0.32g/cm^3
7. Operating temperatures: -40~80°C
8. Ambient temperatures: -40~60°C
9. Operating pressure: -1~150PSI (10Bar)
10. Relay Output: Relay, SPDT, 5A/250Vac/
    PNP/NPN(MOSFET)
    400mA/60 Vac/Vdc
11. Vibrating Freq.:395~405Hz



SC2100

Standard

1. Housing material: Aluminum (IP65)
2. Probe construction: SUS304/316
3. Connection: 1"PT
4. Conduit: 1/2"NPT x 2
5. Supply voltage:
   20~250, 50/60Hz Vac/Vdc
6. Min. material density sensed:
   Solid: ≥0.32g/cm^3
7. Operating temperatures: -40~80°C
8. Ambient temperatures: -40~60°C
9. Operating pressure: -1~150PSI (10Bar)
10. Relay Output: Relay, SPDT, 5A/250Vac/
    PNP/NPN(MOSFET)
    400mA/60 Vac/Vdc
11. Vibrating Freq.:395~405Hz

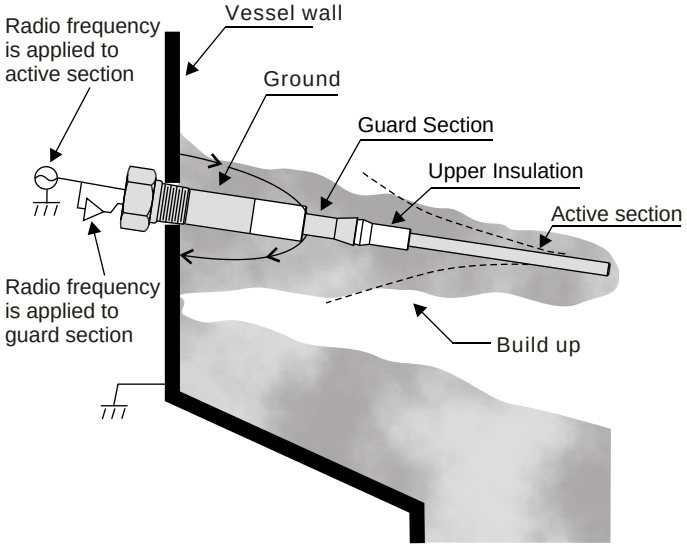


RF CAPACITANCE ADMITTANCE LEVEL SWITCH

PRINCIPLE

RF-Capacitance /Admittance level switch consists of guard section, active section, grounding, and insulation. The guard section is designed to overcome possible medium attachment and to secure signal accuracy. The special structure is suitable for detecting in different medium without being affected by attachments.

Active section probe, guard, and grounding are insulated with insulation. Level of medium can be detected by increase of admittance when medium reaches the active section probe.
Ground and active section probe are insulated, thus detection would not be wrongfully occurred to cause false alarm when medium attaches to the probe.



FEATURES

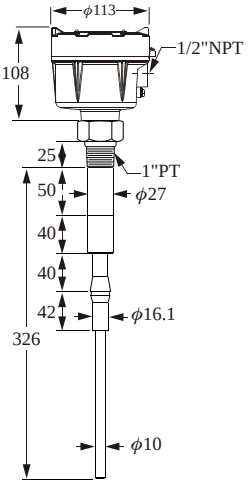
1. Anti-Viscosity
2. Easy Installation
3. Stable; Not affected by temperature
4. Time delay function from 0-30 seconds
5. IP65 housing protection
6. 5 A/250Vac output DPDT
7. Highest temperature tolerance of 550°C
8. High/low failsafe
9. Applicable in liquid, syrup, solid, powder, and interface detection
10. Alarm testing

SPECIFICATIONS

SB2100

Standard

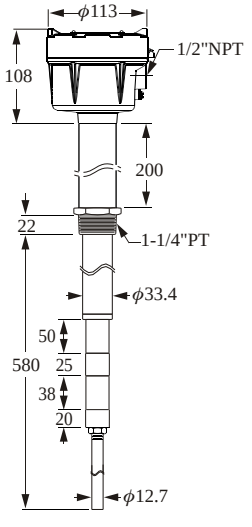
1. Housing: Aluminum (IP65)
2. Probe Material: SUS304 or 316
3. Insulated Material: PTFE
4. Connection: 1" PT
5. Sensitivity: 0.3PF
6. Supply Voltage: 24VdcA20% or 115/230Vac±10% , 50/60HZ
7. Power Consumption: Max. 2W
8. Contact Rating: 5A/250Vac, DPDT
9. Operating Temp: -40~150℃
10. Ambient Temp: -40~70°C
11. Delay Time: 0~30 sec.
12. Fail safe mode: High / low Fail safe mode
13. Conduit: 1/2" NPT x2 hole
14. Operation Pressure: 20kg/cm^2



SB2280

Super Hi-temp

1. Housing: Aluminum (IP65)
2. Probe Material: SUS304 or 316
3. Insulated Material: CERAMIC
4. Connection: 1-1/4" PT
5. Sensitivity: 0.3PF
6. Supply Voltage: 24VdcA20% or 115/230VacK10% , 50/60HZ
7. Power Consumption: Max. 2W
8. Contact Rating: 5A/250Vac, DPDT
9. Operating Temp: -40~550℃
10. Ambient Temp: -40~70°C
11. Delay Time: 0~30 sec.
12. Fail safe mode: High / low Fail safe mode
13. Conduit: 1/2" NPT x2 hole
14. Operation Pressure: ATM



FineTek

SNIFTER DUST MONITOR

PRINCIPLE

Snifter is used to detect filter bag breakage quickly and cost-effec-tively. It is a compact device consisting of an enclosure housing a state-of-the-art electronics and a probe. It can detect particles as small as 0.3 μm and as low concentrations as 0.1 mg/m^3. It can be installed on metallic pipes or ducts with diameters of from 100 mm to 2.0 m. Snifter utilises Sintrol's automatic setup function. With this function, it can adjust itself to dust flow conditions in your application. It is equipped with two alarm relays. The first alarm is energised when the dust concentration exceeds 5 times a reference level and the second 20 times. A three-colour LED provides optical information about the condition of the filter: Green => OK, Yellow => 5x normal and Red => 20x normal.The alarm levels can be adjusted to accommodate different end-user's needs or tailor-made according to OEM customer' s require-ments.

FEATURES

1. Low-Cost
2. Broken Bag Detection
3. Self Adjusting
4. No Drift

SPECIFICATIONS

Snifter

1. Measurement objects: Solid particles in a gas flow
2. Particle size: 0.3μm or larger
3. Measurement range: 0.1mg/m^3
4. Temperature: Max.140BC
5. Pressure: 2Bar
6. Gas velocity: Min.4m/sec
7. Humidity: 95%RH (non-condensing)
8. Measurement principle: Triboelectric AC signal
9. Damping time constant: 1~300s
10. Output signals: 2solid state relay (170mA*200mA if only one output)
11. Ambient temperature: -20~60℃
12. Sensor rod: Stainless steel (230mm)
13. Enclosure / casing: Aluminium
14. Protection category: IP65
15. Power supply: 12~24Vdc
16. Power consumption: 3W
17. Installation: 1/2" thread
18. Approx. 0.7 kg: Approx.0.7kg