

"aira" offers high performance diaphragm operated pulse and pilot solenoid valves with threaded ports. Available with integral pilot or as remotely pilot valves. Out let at 90° to inlet. The pulse valves have just one moving part, the diaphragm. Springless construction of diaphragm providing fast ON-OFF operation. This high speed operation saves compressed air and provides kind of shock wave necessary to free the dust from filter bags.

#### Suitable for :

Dust collector application, in particular for reverse pulse jet filter cleaning including bag filters, cartridge filters, envelope filters, ceramic filters and sintered metal fiber filters.

#### Size Range : 1/2" To 6" Screwed

#### Technical Specifications :

Body and Bonnet Construction	Aluminium Pressure Die Cast
Diaphragm	Nitrile or Neoprene <b>(Reinforced)</b> P.U
Temperature	Rated for 80° C max. For high temperature up to 125° C Viton diaphragm with viton seat can be provided
Pressure Rating	0.6 bar to 10 bar max.
IP 20 (IS 2147) Solenoid Coil	General Purpose
IP 65 (IS 2147) Solenoid Coil	For Waterproof application
Group I, IIA, IIB, & IIC (IS 2148) Solenoid Coil	For Explosion/Flame - proof application
Coil Rating	Continuous Rated
Voltage	24, 48, 110, 220 Volts AC, 50 Hz. 12, 24, 48, 110, 220 Volts DC.



#### Installation :

1. Prepare supply and blowtube pipes to suit valve specification.
2. Valves are mountable in any position without affecting operation, but as a general practice, to fit the valve keeping solenoid upright and above header tank is desirable. This prevents scale and water entering the valve.
3. Ensure tank and pipes are free from dirt, rust or other particulate.
4. Ensure supply air is clean and dry.
5. Mount valves to inlet pipes and blow tube to valves, ensuring no excess thread sealant can enter the valve itself.
6. Make electrical connections to solenoid or connect remote pilot solenoid valve to pilot port **(For remotely piloted valves only)**.
7. Selection of the proper pilot valve orifice is important for the remote control solenoid valves as well as length of the connecting tube, which should be kept as short as possible.
8. Apply moderate pressure to system and check for installation leaks.
9. Fully pressurise system.
10. Test fire and listen for proper actuation and crisp pulse noise.

#### Operations :

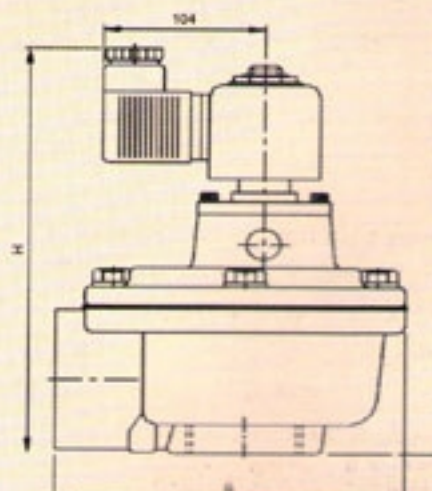
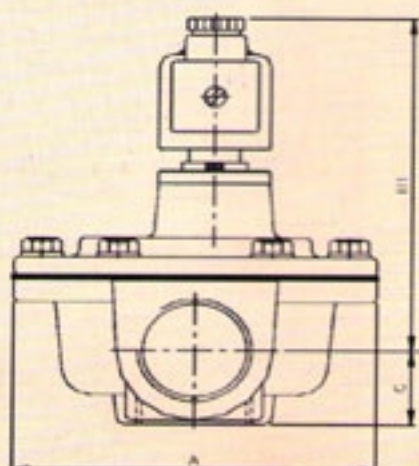
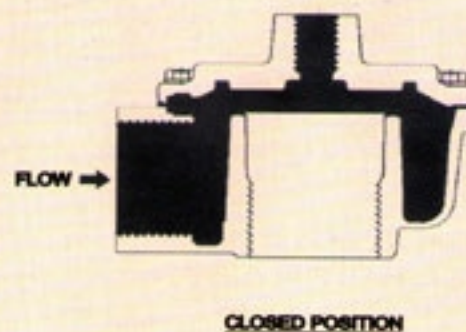
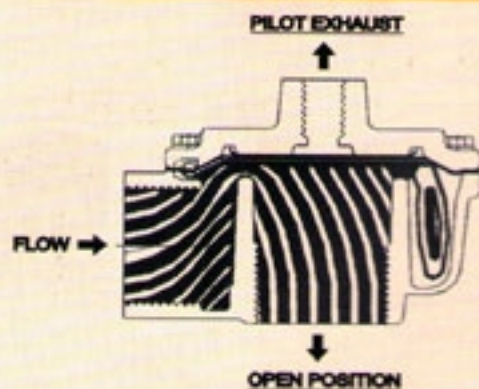
The pulse valve is either operated by an integral solenoid operator or a remote pilot solenoid valve. When the pilot solenoid valve is energised, the air trapped above the diaphragm is quickly exhausted through the pilot solenoid valve, causing very fast opening of the main pulse valve. When the pilot solenoid valve is deenergised air supplied through a bleed hole is trapped above main diaphragm, causing to close the valve.

#### Maintenance :

Before conducting any maintenance activity on the system ensure that components are fully isolated from pressure and power should not be reapplied until the valve has been fully assembled. Diaphragm and pilot inspection should be conducted annually.



# "ASDA" 2/2 Way Dust Collector Solenoid Valves Pulse Valve Angle Type



Dimensions :

(All dimensions are in MM)

Valve Model	Valve Size	A	B	C	H1	H	Orifice	Flow Factor RVM <sup>3</sup> / Hr
ASDA-15	1/2"	75	88.5	22	112	134	10	11
ASDA-20	3/4"	75	88.5	22	112	134	10	17
ASDA-25	1"	75	88.5	22	112	134	30	43
ASDA-40	1.1/2"	137	132	31	140	171	42	67
ASDA-50	2"	184.80	206	38	137.50	202	67	118
ASDA-65	2.1/2"	185.76	209.50	45.8	177.28	227	76	170
ASDA-80	3"	201.3	231.7	54.75	202.55	257.5	-	-
ASDA-100	4"	On Request						
ASDA-150	6"	On Request						

Single Diaphragm

Double Diaphragm

Union Type

External Pilot Operated

