

2/2 Way Pilot Operated Piston Type "HVS"**Solenoid Valves
For Steam & High Temperature Fluids**

"aira" offers HIGH FLOW piston type solenoid valves, are specially engineered in the construction of Investment Cast CF8 / CF8M body for multiple and long lasting operations, especially in STEAM & HIGH TEMPERATURE FLUIDS.

"aira" solenoid valves are the best for the inflammable media. The Flameproof Explosion proof solenoid coils are available in such application.

Size Range : 1/4" To 6" Screwed / Flanged / Triclover

Technical Specifications :

Valve Body	ASTM A 351 - CF8 / CF8M / CF3M
Seat & Seals	Teflon
Pressure	8 PSI to 180 PSI
Temperature	Upto 180°C
Coil Voltage	12V, 24V, 48V, 110V, 230V AC / DC
Insulation	H Class Suitable Upto 180°C
Coil Encloser Meets	IP 20 / IP 65 / IP 67 (Flame Proof / Explosion Proof as per IS 2148 STD for Class II A, II B, II C Zone)
Coil Rating	Continuous Rated
Media	Hot Water / Steam / High Temperature Fluids

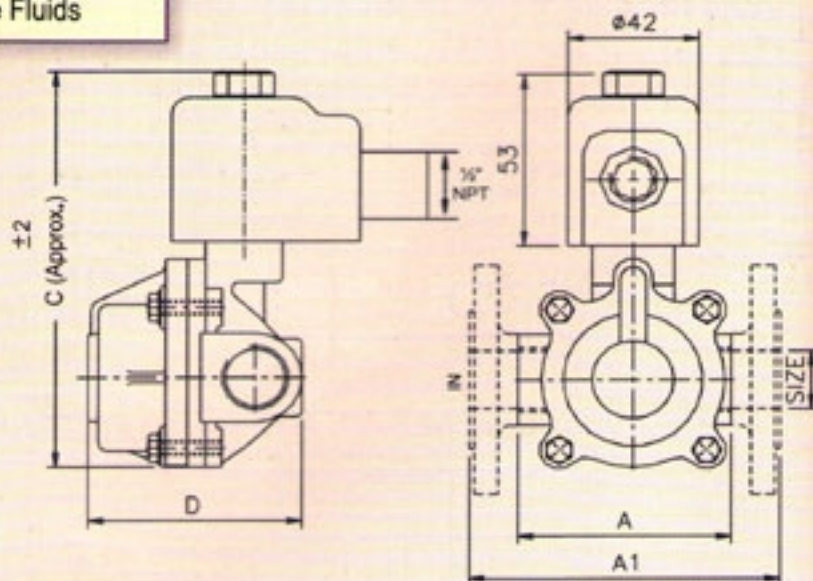
**Caution :**

- Suitable for Dry Steam
- Hot water temperature limited up to 95°C only
- Avoid Back Pressure
- INSTALLATION OF "STRAINER" IN INLET

SIDE IS HIGHLY RECOMMENDED

Technical Specification Table

Size Inch	Orifice mm	Flow factor Kv M ³ /hr.	Minimum pressure bar	Maximum operating pressure (Bar)	
				Hot Water	Steam
1/4	10	2.8	1	9	9
3/8	15	3.4	1	9	9
1/2	15	4	1	9	9
3/4	20	7	1	9	9
1	25	12	1	9	9
1 1/4	28	15	1	9	9
1 1/2	34	23	1	9	9
2	45	38	1	9	9
2 1/2	On Request				
3					
4					
6					

**Dimensions :**

(All dimensions are in MM)

Valve Model	Size		A Screwed	A1 Flanged	C (Approx.)	D	Weight (Approx)	
	MM	Inch					S/E	F/E
HVS - 6	6	1/4	65	-	120	68	-	-
HVS - 10	10	3/8	65	-	120	68	-	-
HVS - 15	15	1/2	65	-	120	68	1.280	2.000
HVS - 20	20	3/4	80	-	125	82	1.660	-
HVS - 25	25	1	95	160	130	90	2.040	3.380
HVS - 32	32	1 1/4	118	200	135	110	-	-
HVS - 40	40	1 1/2	118	200	135	110	3.240	4.920
HVS - 50	50	2	137	230	142	130	4.640	7.460
HVS - 65	65	2.5	172	290	215	160	-	-
HVS - 80	80	3	195	310	249	170	7.960	-
HVS - 100	100	4	300	350	300	230	-	-
HVS - 150	150	6	344	482.5	400	300	-	-

"GST / GTD" Semi Diaphragm Solenoid Valves

For Low Pressure Fluids

"aira" offers 2/2 way semi pilot, high performance diaphragm type solenoid valves for high volume and low pressure application in air, gas, water, vacuum, light oil, corrosive fluids. available in normally close and normally open design.

Suitable For:

Autoclaves, Gas burning equipments, Oil centrifuge plants, Vacuum plants, Pump seal water application, Low pressure water circulation system, solar heating systems, Gas generator etc...

Size Range : 3/8" To 4" Screwed / Flanged / Triclover

Technical Specifications :

Body and Bonnet Construction	ASTMA351 Gr. CF8, CF 8M. / CF83M
Diaphragm	Nitrile or Neoprene. PTFE, Nitrile Diaphragm
Temperature of Fluid	-5°C to 80 °C max. (High Temperature on Request)
Pressure Rating	0 to 6 bar max. (0 to 10 bar on Request)
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.
Voltage	24, 48, 110, 220 Volts AC, 50Hz. 12, 24, 48, 110, 220 Volts DC.



Dimensions:-

(All Dimension are in MM)

Valve Size		A	B	C	D	F	Weight (Approx)	
mm	Inch						S/E	F/E
10	3/8	65	13.5	109.5	57	130	-	-
15	1/2	65	13.5	109.5	57	130	0.960	1.726
20	3/4	80	21	115	68.5	150	1.200	2.220
25	1	95	29	121	82	160	1.600	2.425
40	1.1/2	118	35	133	100	200	2.200	3.930
50	2	137	43.5	143.5	120	230	3.200	6.260
65	2.1/2	172	58	175	185	290	4.370	9.700
80	3	195	58	175	185	310	6.310	12.540
100	4	300	58	175	203	350	13.840	23.190

Technical Specification Table

Valve Model		Valve Size		Orifice Size (mm)	Flow Factor Kv	Min. Press. bar	Max. Operating Pressure (Bar)					
Teflon Diaphragm	Rubber Diaphragm	mm	Inch				AC			DC		
							Air / Gas	Water	Light Oil	Air / Gas	Water	Light Oil
GTD-10	GSD-10	10	3/8	16	2.6	0	6	4.0	3.0	6	5.0	3.0
GTD-15	GSD-15	15	1/2	16	3.4	0	6	4.0	3.0	6	5.0	3.0
GTD-20	GSD-20	20	3/4	20	4.3	0	6	3.5	3.0	6	4.0	3.0
GTD-25	GSD-25	25	1	25	10.3	0	6	3.5	2.0	6	4.0	2.5
GTD-40	GSD-40	40	1.1/2	34	19.3	0	5	3	2.0	5	4.0	2.0
GTD-50	GSD-50	50	2	45	32.5	0	4	3	2.0	4	3.0	2.0

Catalogue No.

APL / 1035

"SSD" 2/2 Way Direct Acting Semi Steam Solenoid Valves For Hot Air / Hot Oil / Hot Water / Steam

aira
VALVE AUTOMATION
ISO 9001 CO.

"aira" Offers 2/2 way direct acting solenoid valves are the best for the inflammable media. The Flameproof Explosion proof solenoid coils are available in such application.

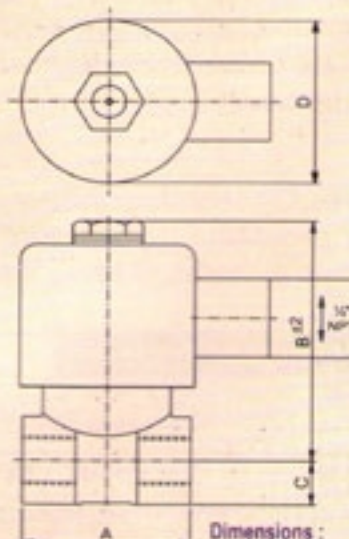
Size Range : 1/4" & 1/2" BSP / NPT

Type : Normally Close

- Compact design light weight & long durability.
- Constructed from advanced technology & design.
- 600 operation per minute.
- Easy installation, universal mounting.

Technical Specifications :

Body Construction	Brass forged / Aluminium / S.Steel
Seat	Viton
Pressure	0 to 12 Kg / Cm ² (High Pressure On Req.)
Temperature of fluid	-5° C to 150° C
Coil Voltage	12V, 24V, 48V, 110V, 220V AC / DC
Coil Insulation	'H' Class
Port Size	1mm to 6mm
Coil Rating	Continuous Rated
Media	Air / Gas / Oil / Water / Chemical



Dimensions :

(All dimensions are in MM)

Valve Model	Valve Size		A	B	C	D
	MM	Inch				
SSDA-6	6	1/4	40	68	10	52
SSDA-15	15	1/2	52	72	14	52



Catalogue No.

APL / 1036

"WSV" 2/2 Way Pilot Operated Diaphragm Type Solenoid Valves for Wet Steam

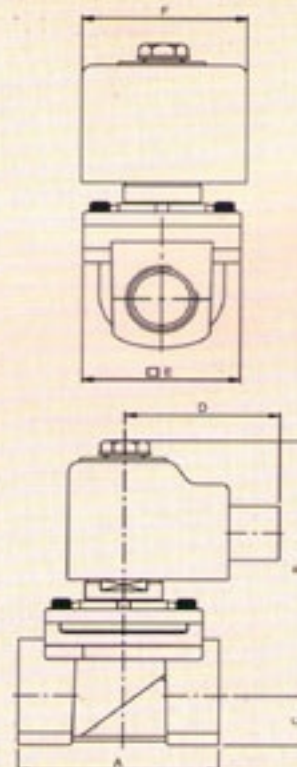
aira
VALVE AUTOMATION
ISO 9001 CO.

"aira" For Steam and hot water application upto 9 bar pressure
NORMALLY CLOSED, ENERGISED TO OPEN

Size Range : 1/2" & 3/4"

Technical Specifications :

Body	ASTM A 351-CF8 / CF8M
Diaphragm	Standard Glass filled PTFE (Teflon)
Working Pressure	Upto 10 Kg / Cm ²
End Connection	Screwed to BSP
Coil Voltage	12V / 24V / 110V / 230V AC / DC
Coil Temperature	Ambient upto 42° C
Coil insulation	Class 'H' insulated upto 180° C
Coil rating	Continuously rated.
Enclosure	Standard-General Purpose IP-20, Optional-Weatherproof IP-67, Flameproof Upto FLP IIB - IIC.
Fluids	Steam temp. Upto 150° C Hot Water upto 95° C
Application	Steaming equipment, textile, Processing equipment, Ironing Equipment, Kitchen Equipment Sterilizers, Tanning plant, Tobacco Plants and others



Dimensions :

(All dimensions are in MM)

Valve Model	Valve Size		A	B	C	D	E	F
	MM	Inch						
WSV -15	15	1/2	48.5	78	14.25	65	40	53
WSV -20	20	3/4	65	85	17	65	51	53

