

"3DV - 2DV" 3/2 - 2/2 Way Pneumatic Diaphragm Operated S/Steel High Pressure Normally Closed Control Valves

"aira" offers Pneumatic Diaphragm Operated Investment Casting body control valves for heavy duty Application

Size Range : 1/2" To 4" Screwed / Flanged

Technical Specifications :

Body and End Piece	ASTM A 351 Gr. CF8 / CF8M / CF3M
Pressure Temp. Rating	As per ANSI class 300.
End Connections	Standard BSP(F) /NPT(F) or Socket Weld.
Seating	Metal to Metal backed by specially compounded Teflon.
Leakage	As per ANSI B 16. 104 - 1976 Teflon seating class IV.
Trim (Spindle)	S.S. AISI 400 /S.S. hard chrome plated.
Stem Packing	Self compensating , spring loaded Teflon packing.
Characteristics	On -off, normally closed.
Working Fluid Pressure	Refer to table below.
Working Temperature	On steam - continuous 180° C Intermittent 205° C
Air Quality	Dry air or non corrosive gas.
Accessories	Air lock, Solenoid Valve, Filter Regulator Gauge. Other Accessories available on application.
Application	For control of air, water, oil, gas, steam hydraulic oil, specially where heavy duty operations are called for specially on tyre and tube building process, power generation, atomic energy, Chemical & petrochemical plants, PSA Nitrogen system, Air, Gas dryers, Gas generators and others.



Actuator

Spring return type, high duty Pneumatic Diaphragm Actuator.

Diaphragm Cover	Sheet metal pressing
Diaphragm	Nylon impregnated neoprene
Bottom Cover	Aluminium
Yoke	ASTM A216 WCB
Actuator Spring	Spring Steel (IS 4454 Gr. II) duty painted
Actuator Working	2 to 3.5 bar
Signal Pressure	(Main line pressure dependent)
Oper. Cycles per hour (Tested On Air)	15 mm, 20mm, 25mm upto 800 cy/hr 35mm and 50mm upto 300 cy/hr
Life Expectancy	Over Ten Lacs cycles (lab tested in ideal condition)

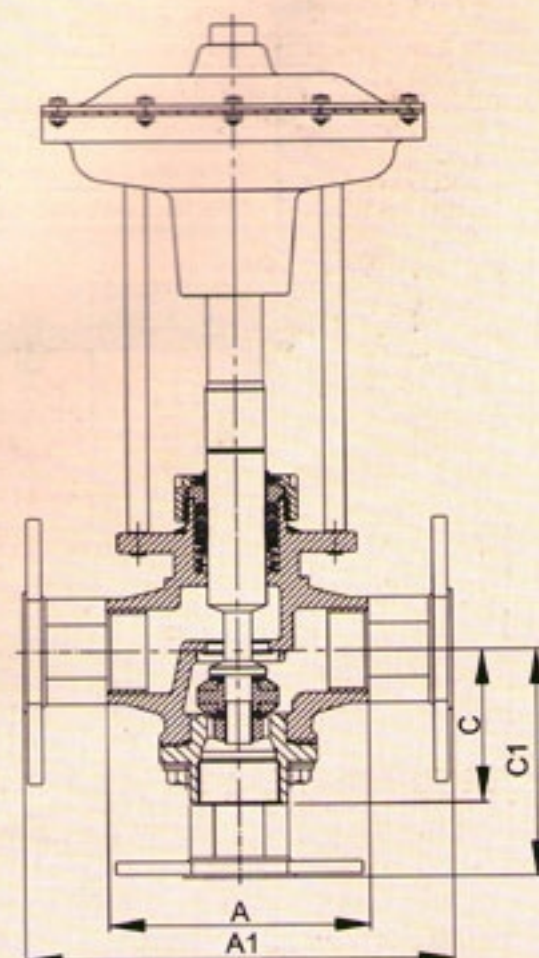
Technical Specification Table

Valve Model	Size BSP (F)		Orifice Size mm	Flow Factor Kv m ³ /hr	Maximum Working Pressure			Safe Working Pressure bar	Air Consumption Lit. / Cycle
	mm	Inch			Air/Gas bar	Hot Water bar	Steam bar		
3DV-15	15	1/2	13	2.8	21	16	16	42	0.150
3DV-20	20	3/4	15	4.3	21	16	16	42	0.176
3DV-25	25	1	19	7.0	21	16	16	42	0.471
3DV-40	40	1 1/2	34	22.7	21	16	16	42	0.966
3DV-50	50	2	45	36.0	21	16	16	42	0.966
3DV-65	65	2 1/2			On Request				
3DV-80	80	3			On Request				
3DV-100	100	4			On Request				

Dimensions :

(All dimensions are in MM)

Valve Model Screwed	Valve Model Flanged	Size		A	A1	C	C1
		MM	Inch				
2DVS-3LDS - 15	2DCIL-3DCIL - 15	15	1/2	70	108	50	69
2DVS-3LDS - 20	2DCIL-3DCIL - 20	20	3/4	85	117	57.5	73.5
2DVS-3LDS - 25	2DCIL-3DCIL - 25	25	1	92	127	61	78.5
2DVS-3LDS - 32	2DCIL-3DCIL - 32	32	1 1/4	98.5	140	64	85
2DVS-3LDS - 40	2DCIL-3DCIL - 40	40	1 1/2	115	165	72.5	97.5
2DVS-3LDS - 50	2DCIL-3DCIL - 50	50	2	120	178	75	104
2DVS-3LDS - 65	2DCIL-3DCIL - 65	65	2 1/2	148	210	113	140
2DVS-3LDS - 80	2DCIL-3DCIL - 80	80	3	177	255.5	116	140
2DVS-3LDS - 100	2DCIL-3DCIL - 100	100	4	190	251	131.5	162



"3DLCV - 2DLCV" Way Pneumatic Diaphragm Operated S/Steel Normally Closed Control Valves Medium Pressure

"aira" Offers Pneumatic Diaphragm Operated Investment Casting body
Control Valve for Medium Pressure Application

Size Range : 1/2" To 4" Screwed / Flanged

Technical Specifications :

Body and End Piece	ASTM A 351 Gr. CF8 / CF8M / CF3M
Pressure Temp. Rating	As per ANSI class 150#
End Connections	Standard BSP(F) /NPT(F) or Socket Weld.
Seating	Metal to Metal backed by specially compounded Teflon.
Leakage	As per ANSI B 16. 104 - 1976 Teflon seating class IV.
Trim (Spindle)	S.S. AISI 400 /S.S. hard chrome plated.
Stem Packing	Self compensating , spring loaded Teflon packing.
Characteristics	On -off, normally closed.
Working Fluid Pressure	Refer to table below.
Working Temperature	On steam - continuous 180° C Intermittent 205° C
Air Quality	Dry air or non corrosive gas.
Accessories	Air lock, Solenoid Valve, Filter Regulator Gauge, Other Accessories available on application.
Application	For control of air, water, oil, gas, steam hydraulic oil, specially where heavy duty operations are called for specially on tyre and tube building process, power generation, atomic energy, Chemical & petrochemical plants, PSA Nitrogen system, Air, Gas dryers, Gas generators and others.



Actuator

Spring return type, high duty Pneumatic Diaphragm Actuator.

Diaphragm Cover	Sheet metal pressing
Diaphragm	Nylon impregnated neoprene / PU
Bottom Cover	Aluminium
Yoke	ASTM A216 WCB
Actuator Spring	Spring Steel (IS 4454 Gr.II) duly painted
Actuator Working	2 to 3.5 bar
Signal Pressure	(Main line pressure dependent)
Oper. Cycles per hour (Tested On Air)	15 mm, 20mm, 25mm upto 800 cy/hr 35mm and 50mm upto 300 cy/hr
Life Expectancy	Over Ten Lacs cycles (lab tested in ideal condition)

Technical Specification Table

Valve Model	Size BSP (F)	Orifice Size	Flow Factor Kv	Maximum Working Pressure			Safe Working Pressure	Air Consumption
				Air/Gas	Hot Water	Steam		
2 Way	mm	Inch	m ³ /hr	bar	bar	bar	bar	Lit / Cycle
2DLCV-15	15	1/2	13	2.8	21	16	16	0.150
2DLCV-20	20	3/4	15	4.3	21	16	16	0.176
2DLCV-25	25	1	19	7.0	21	16	16	0.471
2DLCV-40	40	1 1/2	34	22.7	21	16	16	0.966
2DLCV-50	50	2	45	36.0	21	16	16	0.966
2DLCV-65	65	2 1/2			On Request			
2DLCV-80	80	3			On Request			
2DLCV-100	100	4			On Request			

Dimensions :

(All dimensions are in MM)

Valve Model	Valve Model	Size		A	A1	C	C1	D
2 Way	3 Way	MM	Inch					(2DLCV)
2DLCV - 15	3DLCV - 15	15	1/4"	70.5	108	50	69	35
2DLCV - 20	3DLCV - 20	20	3/4"	85.5	117.3	68	73.5	41
2DLCV - 25	3DLCV - 25	25	1"	90.5	127	60.5	78.5	43
2DLCV - 32	3DLCV - 32	32	1 1/4"	98.5	139.7	64	85	44
2DLCV - 40	3DLCV - 40	40	1 1/2"	115	165	72.5	97.5	51
2DLCV - 50	3DLCV - 50	50	2"	120	178	75	104	52
2DLCV - 65	3DLCV - 65	65	2 1/2"	148	210	113	144	On Request
2DLCV - 80	3DLCV - 80	80	3"	177	225.5	116	140	
2DLCV - 100	3DLCV - 100	100	4"	190	251	131.5	162	

