APL / 1011

3/2 - 2/2 Way Pneumatic Cylinder Operated

Straight Type Mixing And / Diverting High Pressure On/Off "3CV" Control Valve



"aira" offers ON/OFF control valve in compact design for mixing and / or diverting three way applications.

Types: 1. Normally "A" Port Close 2. Normally "B" Port Close

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

Actuator				
Body	S.S. 304 Pressed			
Cover Flange	Aluminium Pressure Die - Cast			
Spring	Spring Steel (IS 4454 Gr.II)			
Port Connection	1/4" BSP (NPT On Request)			
Operating Pressure	3.5 To 7 Bar			
Positioner Indicator	Nylon			
Operating Cycles	350 To 650 Cycles/Hr			
Media	Dry Lubricated Air / Innert Gases Hydint Moisture Separators are advised to use in line			

Valve			
Size	1/4" to 4" Screwed / Flanged		
Body	ASTM A351 Gr. CF8 / CF8M / CF3M		
Trim / Spindle	S.S. 304 / S.S. 316 / S.S. 316L		
Gland Packing	Teflon 'V' seals backed by graphite wiper seal (self compensating)		
Body Test Pressure	42 Bar Maximum		
Working Fluid Press.	Refer to table		
Operating Temp.	On steam - Continuous 155 °C, Intermittent 180 °C Maximum		



Accessories:

Pilot Valve

>> 3/2 Way Solenoid Valve

On/Off type limit switch

Moisture SeparatorQuick Exhaust Valve

Combination (Filter + Regulator)

Technical Specification Table

Valve Valve Size		Orifice	Max.	Flow	Actuator	Air	Weight (Approx.)		
Model	MM	Inch	mm	Op.Press Bar	Factor Kv M3/hr	Bore mm	Consumption Lit./Cycle	S/E	F/E
3CV - 15	15	1/2"	15	10	3.3	70	0.151	1.760	3.000
3CV - 20	20	3/4"	18	10	4.7	70	0.151	2.220	3.560
3CV - 25	25	1"	23	10	8.5	70	0.162	3.000	4.900
3CV - 40	40	1.1/2"	36	10	22.5	100	0.309	7.320	10.240
3CV - 50	50	2"	45	-	35	100	0.325	10.440	14.560
3CV - 65	65	2.1/2"	59.5	-	-	120	-	-	-
3CV - 80	80	3"	-	On Request					
3CV - 100	100	4"	-	On Request					

For Any Different Technical Requirement - Available On Request

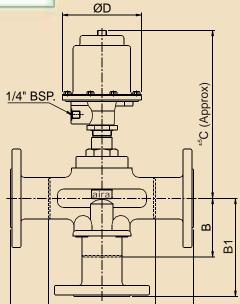
Dimensions: (All Dimensions are in mm							e in mm)	
Valve Model	Valve MM	Size Inch	А	A1	В	B1	С	®D
3CV - 15	15	1/2"	85	151	50	83	185	102
3CV - 20	20	3/4"	110	185	66	130.5	194	102
3CV -25	25	1"	120	189	72	106.5	204	102
3CV - 40	40	1.1/2"	150	232	91	132	285	134
3CV - 50	50	2"	190	283	100	146.5	292	134
3CV - 65	65	2.1/2"	On Request					
3CV - 80	80	3"	On Request					
3CV - 100	100	4"	On Request					

OPERATIONAL & INSTALLATION GUIDELINE

In Normal condition "A" port is closed. In such condition "AB" port is connected to "B" port. When the actuator is energised, the "B" port is closed and "AB" port is connected to "A" port. This way the "Diverting" action AB TO B and AB TO A can be achieved.

In Normal condition "B" port is closed. In such condition "A" port is connected to "AB" port. When the actuator is energised, the "A" port is closed and "B" port is connected to "AB" port. This way the "Mixing" action A TO AB and B TO AB can be achieved.

DIVE	RTING				
AB BB	A AB				
When "A" Port Closed	When "B" Port Closed				
MIXING					
A A B	A B				
When "A" Port Closed	When "B" Port Closed				
When "A" Port Closed MIX	A AB				



Α

A1