

**3/2 - 2/2 Way Pneumatic Cylinder Operated
Straight Type Mixing And / Diverting
Medium Pressure On/Off "3LCS" 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	Technical Specifications :
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
Position Indicator	Nylon
Operating Cycles	350 To 650 Cycles/Hr
Media	Dry Lubricated Air / Inert Gases Hydint Moisture Separators are advised to use in line

Valve	Technical Specifications :
Size	1/4" To 4" Screwed / Flanged
Body	ASTMA 351 Gr. CF8 / CF8M / CF3M
Trim / Spindle	S.S. AISI 304 / 316 / 316L
Gland Packing	Teflon 'V' seals backed by graphite wiper seal [self compensating]
Body Test Pressure	16 Bar Maximum
Working Fluid Press	Refer to table
Operating Temp.	On steam - Continuous 155 °C, Intermittent 180 °C Maximum



Technical Specification Table

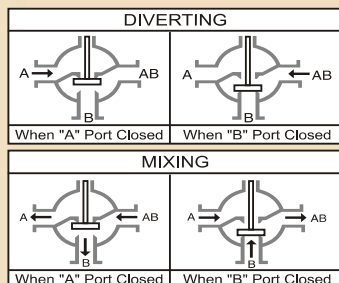
Valve Model	Valve Size		Orifice mm	Max. Op. Press Bar	Flow Factor Kv M ³ /hr	Actuator Bore mm	Air Consumption Lit./Cycle	Weight (Approx)	
	MM	Inch						S/E	F/E
3LCS / 3LCF - 6	6	1/4"	14	10	3.3	50	0.151	1.500	2.750
3LCS / 3LCF - 15	15	1/2"	14	10	3.3	50	0.151	1.500	2.750
3LCS / 3LCF - 20	20	3/4"	15	10	4.7	50	0.151	2.200	3.000
3LCS / 3LCF - 25	25	1"	22	10	8.5	70	0.172	2.500	4.000
3LCS / 3LCF - 32	32	1.1/4"	28	10	22.5	70	0.172	2.500	9.000
3LCS / 3LCF - 40	40	1.1/2"	36	10	22.5	70	0.172	2.500	9.000
3LCS / 3LCF - 50	50	2"	45	7	35	70	0.309	9.000	13.500
3LCS / 3LCF - 65	65	2.1/2"	60	-	-	100	0.329	9.080	17.260
3LCS / 3LCF - 80	80	3"	60	-	-	120	-	11.540	20.460
3LCS / 3LCF - 100	100	4"	78	-	-	120	-	14.200	29.700

Accessories :

- ▶▶ 3/2 Way Solenoid Valve
- ▶▶ Pilot Valve
- ▶▶ On/Off type limit switch
- ▶▶ Combination (Filter + Regulator)
- ▶▶ Moisture Separator
- ▶▶ Quick Exhaust Valve

For Any Different Technical Requirement - Available On Request
Dimensions : (All dimensions are in MM)

Valve Model	Valve Size		L	L1	A	A1	E	Pneu. Cylinder ID ØD
	MM	Inch						
3LCS / 3LCF - 6	6	1/4"	70.5	108	50	69	75.5	50
3LCS / 3LCF - 15	15	1/2"	70.5	108	50	69	75.5	50
3LCS / 3LCF - 20	20	3/4"	85.5	117.3	58	73.5	75.5	50
3LCS / 3LCF - 25	25	1"	90.5	127	60.5	78.5	102	70
3LCS / 3LCF - 32	32	1.1/4"	98.5	139.7	64	85	102	70
3LCS / 3LCF - 40	40	1.1/2"	115	165	72.5	97.5	102	70
3LCS / 3LCF - 50	50	2"	120	178	78	104	102	70
3LCS / 3LCF - 65	65	2.1/2"	148	210	113	144	134	100
3LCS / 3LCF - 80	80	3"	177	225.5	116	140	164	120
3LCS / 3LCF - 100	100	4"	190	251	131.5	162	164	120



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.

