

Your Solution
Partner In
Industrial Valve Automation...



2/2 - 3/2 WAY STRAIGHT TYPE MIXING & DIVERTING MEDIUM PRESSURE Control Valve

MODEL :
3ALCS & 3ALCF



Mfg. & Mkt by
aira Euroautomation pvt. ltd.
INDIA

www.airaindia.com



About Us

*Clients are
why we exist!*

We welcome and thank you for referring out detailed catalogue.

aira is known all over continents as a manufacturer of quality products - Ball Valves, Butterfly Valves, Plug Valves, & Control On / Off Valves with Pneumatic Actuators for Pharma, Oil & Gas, Steel, Paper, Water, Chemical and all type of processing industries.

aira has walked through more than 3 decades, gaining valuable experience, offering equipment's in the products manufactured by OEMs in all spheres of engineering. **aira** products have gained reputations of consultants, and approvals of users, OEMs and other as a quality product.

aira has expanding business into foreign markets specially GCC, UAE, Asian & African countries. This is because increase its customer base and revenue, leading to overall growth and success. Now foreign users come to know and believe in the services provided by the **aira**. Along with the same, it also helps to reach a large number of users thereby leading to the increase their business.

Being and ISO 9001 BVQI certified company has put **aira** in fore front. Our motto is "Value the customer" and "Superior product", one among the best in the world.

Our Quality

- In- House full scale testing facility.
- Lean manufacturing practices
- Certified by : ISO 9001 : 2015 (BVQI LONDON), CE, ATEX, CIMFR, BIS, PESO, SIL 3, IBR
- API 609, API 6D

Our Commitment

- To understand customer's need first before proposing our products.
- To keep on providing competitive rate's by adapting to continuous process improvement, without compromising on quality.
- To provide continuous support to our customers and go beyond their expectations in terms of delivery and after sale services.

Our Manufacturing Facility

- In house R & D, manufacturing and testing facility is all located in a spread over three campuses at Ahmedabad, Gujarat, INDIA.

Network - Sales Office

- 60 Plus Branch Offices in different states in India.
- Sales office in the Bangladesh, Dubai, Kenya, Malaysia, Nepal, Qatar, Singapore, South Africa, Sri Lanka, Turkey, USA (Expanding).

QMS (Quality Management System)

ISO 9001 : 2015

EMS (Environment Management System)

ISO 14001 : 2015

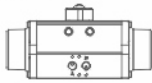
OHSAS (Occupational Health & Safety Management System)

ISO 45001 : 2018

IBR
PISTON VALVE
GLOBE CONTROL VALVE (CKD/CND)
DISC CHECK VALVE (DCV)
PRESSURE REDUCING VALVE (PRV)
POP TYPE SAFETY VALVE
BALL VALVE

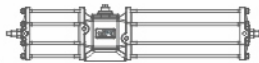
Pneumatic Actuator

CE /
ATEX /
EXIDA SIL-3 /
PROOF OF DESIGN



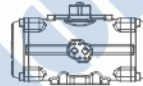
Scotch & Yoke Actuator

CE / ATEX / SIL-3



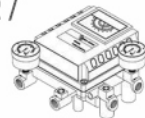
Stainless Steel Actuator

CE /
IEP ATEX



Positioner Enclosure

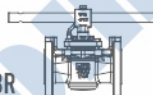
CE / CIMFR /
IP67 / BIS
/ PESO



aira's
SOME OF OUR
Certificates

Plug Valve

FUGITIVE EMISSIONS
TEST
AS PER ISO
15848-1 / IBR



Flameproof Solenoid Valve

IEP ATEX / CE / CIMFR
/ IP65 / IP67 / IP68 /
BIS / PESO



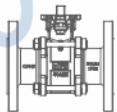
Limit Switch

IEP ATEX / CE / CIMFR
/ IP67 / BIS / PESO /
EQDC IP68



Ball Valve (Floating & Trunnion)

FIRE SAFE TEST DESIGN /
FUGITIVE EMISSIONS TEST
AS PER ISO 15848-1 / CE /
PED / API 6D / API 607 /
EXIDA SIL-3



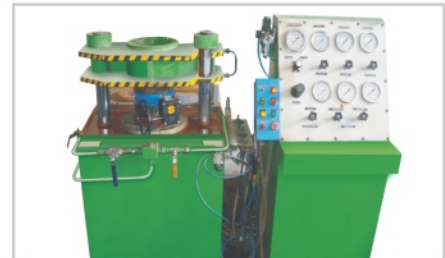
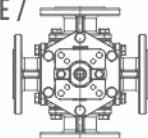
Butterfly Valve (centric / Double & Triple Eccentric)

FIRE SAFE TEST DESIGN /
FUGITIVE EMISSIONS TEST
AS PER ISO 15848-1 / CE /
PED / API 609 / EXIDA SIL-3
/ IBR / PROOF OF DESIGN /
FOOD GRADE / BIS / ISI



Multiport Ball Valve

FUGITIVE EMISSIONS TEST
AS PER ISO 15848-1 / CE /
PED / EIL



2/2 - 3/2 Way Straight Type Mixing & Diverting Medium Pressure Control Valve



Model : 3ALCS

Model : 3ALCF

Accessories

- 3/2 & 5/2 Way Namur Solenoid Valve
- Pilot Valve
- On / Off Type Limit Switch
- Combination (Filter + Regulator)
- Moisture Separator
- Quick Exhaust Valve

"aira" Offers ON/OFF Control Valve in compact Design for mixing and or diverting three way application.

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

Actuator Specification

Port Connection	1/4" BSP (NPT On Request)
Operating Pressure	4.5 to 7 BAR 1/2" to 2" / 5 to 7 BAR 2.1/2" to 4"
Operating Cycles	350 to 650 Cycles / Hr.
Media	Dry Lubricated Air / Inner Gases (Hydint Moisture Separator are advised to use in line)

Actuator Type

Double Acting
Single Acting
Normally Open

Valve Specification

Body Test Press.	10 Bar Maximum (12 Kg One Size Higher Actuator 16 Kg Two Size Higher Actuator)
Working Pressure	Upto 10 Bar
Working Temperature	PTFE 180 °C / CFT 220 °C
Leakage	As per ANSI B16, 16.104 Leakage Class VI Shut Off Tight / Bubble Tight
Media	Air / Water / Oil / Gas / Steam & Chemical

Technical Specification Table

Valve Model	Size		Orifice mm	Max. Oper. Press. Bar	Flow Factor Kv M3/hr	Actuator Bore mm	Air Consumption Lit./ Cycle
	MM	Inch					
3ALCS / 3ALCF - 15	15	1/2"	14	10	3.3	50	0.151
3ALCS / 3ALCF - 20	20	3/4"	15	10	4.7	50	0.151
3ALCS / 3ALCF - 25	25	1"	22	10	8.5	70	0.172
3ALCS / 3ALCF - 32	32	1.1/4"	28	10	22.5	70	0.172
3ALCS / 3ALCF - 40	40	1.1/2"	36	10	22.5	70	0.172
3ALCS / 3ALCF - 50	50	2"	45	7	35	70	0.309
3ALCS / 3ALCF - 65	65	2.1/2"	60	-	-	100	0.329
3ALCS / 3ALCF - 80	80	3"	60	-	-	120	-
3ALCS / 3ALCF - 100	100	4"	78	-	-	160	-

For Any Different Technical Requirement - Available On Request

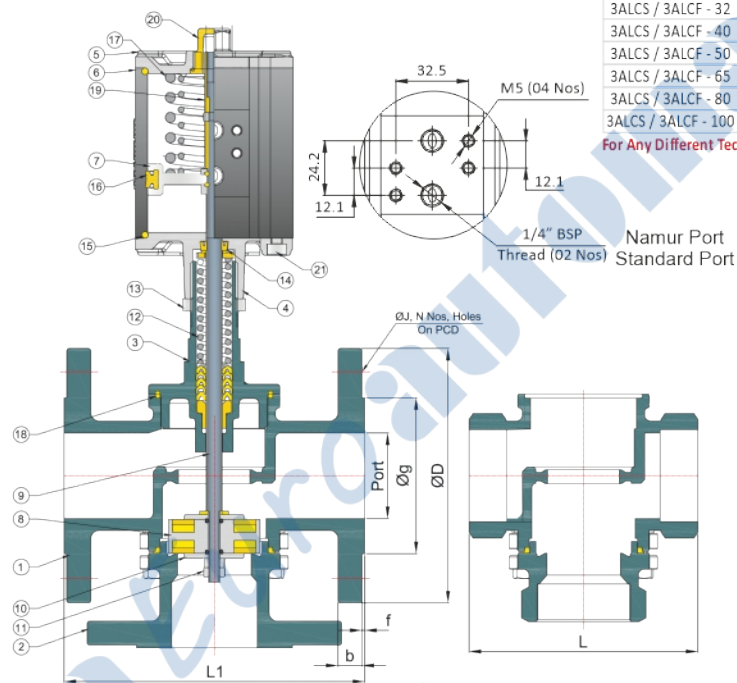
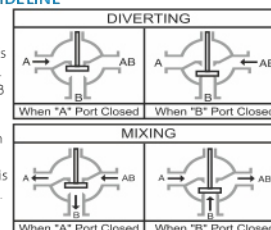
Sr. No.	Description	Material
1	Body	CF8 / CF8M
2	F/E End Connector	CF8 / CF8M
3	Bonnet	CF8 / CF8M
4	Flange Bottom Cover	Aluminum
5	Flange top Cover	Aluminum
6	ACT. Cap	Aluminum
7	Piston	Aluminum
8	Plug	S. S. 304
9	Plug + Piston Shaft	S. S. 304
10	Plug Washer (S.S)	S. S. 304
11	Lock Nut For Plug	S. S. 304
12	Spring For Bonnet	S. S.
13	Lock Nut For Flange	S. S.
14	V-Seal For Flange	High Nitrile
15	O-Ring For Flange Top & Bottom	High Nitrile
16	V-Seal For Piston (K Type)	High Nitrile
*17	Spring For Piston	Spring Steel
18	Teflon For Body	PTFE
19	Indicator For Piston	Nylon / Aluminum
20	Dom Indicator	Nylon
21	Socket Head Cap Screw	S. S.

* These Item (Spring) Not Applicable In Double Acting Actuator.

OPERATIONAL & INSTALLATION GUIDELINE

In Norma 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 "A" 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.



Dimensions :

Size		3LCS	3LCF	Port	ØD	b	Øg	f	ØJ	N	PCD	Weight (Approx.)	
MM	Inch	L	L1									3LCS	3LCF
15	1/2"	70.5	108	12.5	90	8	34.9	2	15.9	4	60.3	1.520	2.620
20	3/4"	85.5	117.3	17	100	8.9	42.9	2	15.9	4	69.9	1.740	3.650
25	1"	90.5	127	24	110	9.6	50.8	2	15.9	4	79.4	2.580	4.520
32	1.1/4"	98.5	139.7	30	115	11.2	63.5	2	15.9	4	88.9	3.100	6.910
40	1.1/2"	115	165.1	37	125	12.7	73	2	15.9	4	98.4	3.420	6.970
50	2"	120	177.8	49	150	14.3	92.1	2	15.9	4	120.7	4.240	9.960
65	2.1/2"	148	210	64	180	15.9	104.8	2	19.05	4	139.7	11.400	26.910
80	3"	177	225.50	75	190	17.5	127	2	19.05	4	152.4	12.100	29.200
100	4"	190	251	98	230	22.3	157.2	2	19.05	4	190.5	24.100	35.900

(All Dimensions are in mm)



Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

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03

Pneumatic - Pneumatic & Electro Pneumatic ROTARY Valve Positioner



Electro - Pneumatic
Input Signal : 4 ~ 20 mA DC
Supply Air Pressure : 20 ~ 100 psi Max.
 (7.0 Kg/cm²)
Standard Stroke : 10 ~ 80 mm
Air Pipe Connection : 1/4" NPT
Ambient Temperature : -20 °C to 70 °C
Degree of Protection : IP 65
Out-put Characteristics : Rotary
Conduit Connection : 1/2" NPT
Body Material : Aluminium Die Cast



Pneumatic - Pneumatic & Electro Pneumatic LINEAR Valve Positioner



Electro - Pneumatic
Input Signal : 3 ~ 15 (0.2 ~ 1.0 Kg/cm²)
Supply Air Pressure : 100 psi Max.
 (7.0 Kg/cm²)
Standard Stroke : 10 ~ 80 mm
Air Pipe Connection : 1/4" NPT
Ambient Temperature : -20 °C to 70 °C
Degree of Protection : IP 65
Out-put Characteristics : Linear
Conduit Connection : 1/2" NPT
Body Material : Aluminium Die Cast



SMART Positioner LINEAR



Model : IP 6000 Series
Body : Aluminium
Set Point Signal : 4 - 20mA DC
Ambient Temperature : Normal Version : -20 °C ~ 70 °C
 Optional Version : -40 °C ~ 70 °C
Supply Pressure : 0.14 - 0.7 MPa
Flow : 55L/min (Sup=0.14MPa)

Weatherproof MICRO Limit Switch Box



Model : MMLS-BX-WP-01-A
 MMLS-BX-WP-01-B
 MMLS-BX-WP-01-C
Switch : Honeywell ZM / NJ2-V3-N /
 NBB-V3-Z4
Type : 1 NO + 1 NC / 2 Switch
Enclosure Protection : IP 67
Ambient Temperature : -20 °C to 80 °C
Conduit Entry : 1/2" - NPT
Terminal : 8 Point
Mounting Bracket : Namur VDI / VDE3845 / ISO 5211
Material : Aluminium Die Cast

Flameproof Limit Switch Box



Model : MLS-BX-FLP-01-A
 MLS-BX-FLP-01-B
 MLS-BX-FLP-01-C
 MLS-BX-FLP-01-D
Switch : Honeywell V15 / Honeywell
 V 15 PCB Type / NCB2-V3-NO /
 NJ2-V3-N / NBB-V3-Z4 / NBB3-V3-Z4
Type : 1 NO + 1 NC / 2 NO + 2 NC / 2 Switch
Enclosure Protection : IP 68
Ambient Temp. : -20 °C to 80 °C
Conduit Entry : 1/2" - NPT
Terminal : 8 Point
Mounting Bracket : Namur VDI / VDE3845 / ISO 5211
Material : Aluminium Die Cast



Flameproof Limit Switch Box STAINLESS STEEL 304 / 316



Model : LS4-BX-FLP-01-A / LS6-BX-FLP-01-A
 LS4-BX-FLP-01-B / LS6-BX-FLP-01-B
 LS4-BX-FLP-01-C / LS6-BX-FLP-01-C
 LS4-BX-FLP-01-D / LS6-BX-FLP-01-D
Switch : Honeywell V15 / Honeywell
 V 15 PCB Type / NCB2-V3-NO /
 NJ2-V3-N / NBB-V3-Z4 / NBB3-V3-Z4
Type : 1 NO + 1 NC / 2 NO + 2 NC / 2 Switch
Enclosure Protection : IP 67
Ambient Temp. : -20 °C to 80 °C
Conduit Entry : 1/2" - NPT
Terminal : 8 Point
Mounting Bracket : Namur VDI / VDE3845 / ISO 5211
Material : ASTM A351 Gr. CF8 / CF8M / CF3M



Weatherproof Limit Switch Box (Big Box)



Model : MLS-BX-01-A / MLS-BX-01-B
 MLS-BX-01-C / MLS-BX-01-D
Switch : Honeywell V 15 / NJ2-V3-N /
 NBB-V3-Z4 / NCB2-V3-NO
Type : 1 NO + 1 NC / 2 NO + 2 NC /
 2 Switch
Enclosure Protection : IP 67
Ambient Temperature : -20 °C to 80 °C
Conduit Entry : 1/2" - NPT
Terminal : 8 Point
Mounting Bracket : Namur VDI / VDE3845 /
 ISO 5211
Material : Aluminium Die Cast



Weatherproof Limit Switch Box STAINLESS STEEL 304 / 316



Model : MLS4-BX-01-A / MLS4-BX-01-B
 MLS4-BX-01-C / MLS4-BX-01-D
Switch : Honeywell V 15 / NJ2-V3-N /
 NBB-V3-Z4 / NCB2-V3-NO
Type : 1 NO + 1 NC / 2 NO + 2 NC /
 2 Switch
Enclosure Protection : IP 67
Ambient Temperature : -20 °C to 80 °C
Conduit Entry : 1/2" - NPT
Terminal : 8 Point
Mounting Bracket : Namur VDI / VDE3845 /
 ISO 5211
Material : ASTM A351 Gr. CF8 / CF8M / CF3M



3/2 Way Namur Direct Acting Solenoid Valve



Model	: NAM-SA-32
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Ambient Temp.	: -20 °C ~ 70 °C
MOC	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 0 to 10 Kg/cm ²

5/2 Way Convertible Poppet Type SINGLE & DOUBLE Namur Solenoid Valve



Model	: OTX-ALU-52 / 20TX-ALU-52
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Ambient Temp.	: -20 °C ~ 70 °C
MOC	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 2.5 to 10 Kg/cm ²

3/2 Way Internal Pilot Operated STAINLESS STEEL 316 Single Namur Solenoid Valve



Model	: MPT-S6-32
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F" & "H"
Ambient Temp.	: -20 °C ~ 70 °C
MOC	: ASTM A351 Gr. CF8M
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 2.5 to 10 Kg/cm ²

5/2 Way Poppet Type STAINLESS STEEL 316 Single Namur Solenoid Valve



Model	: OTX-S6-52
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F" & "H"
Ambient Temp.	: -20 °C ~ 70 °C
MOC	: ASTM A351 Gr. CF8M
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 2.5 to 10 Kg/cm ²

3/2 Way Midget Type Direct Acting Solenoid Valve



Model	: DMV
Size	: 1/4"
Body	: CF8 / CF8M / Brass / S.S 304
Orific	: 2
Pressure	: 7 Kg / cm ²
Temp.	: Upto -5 to 80 °C max.
Coil Rating	: Continuous Rated
Coil Insulation	: "F" Class & "H" Class For Flameproof
Media	: Air & Gas
Voltage	: 12V, 24V, 48V, 110V, 230V, AC/DC

3/2 Way Midget Type Direct Acting Solenoid Valve



Model	: MDV
Size	: 1/4"
Body	: CF8 / CF8M / Brass / S.S 304
Orific	: 2
Pressure	: 7 Kg / cm ²
Temp.	: Upto -5 to 80 °C max.
Coil Rating	: Continuous Rated
Coil Insulation	: "F" Class & "H" Class For Flameproof
Media	: Air & Gas
Voltage	: 12V, 24V, 48V, 110V, 230V, AC/DC

Filter + Regulator Air Combination



Model	: 4FQ / 8 FQ / FRJ / AFRS4
Air Connection	: 1/4"
Max. Supply Pressure	: 4FQ : 0.5 to 4 Kg / cm ² 8FQ : 0.5 to 8 Kg / cm ² FRJ : 1 to 9 Kg / cm ²
Gauge Connection	: 1/8"
Ambient Temp.	: -20 °C ~ 70 °C
Mini Filtering Size	: 5 Micron
Material	: Aluminium Pressure Die Cast / CF8 / CF8M

(4FQ / 8FQ) (FRJ) (AFRS4)

Air Volume Booster



Model	: VLB
Size	: 1/4" to 1"
MOC	: Aluminium
Seals	: NBR
Supply Pressure	: 10 Bar
Output Pressure	: 7 Bar
Temperature	: -20 °C ~ 70 °C

Single & Double Air Lock Valve



Model Single	: SALV
Model Double	: DALV
Size	: 1/4" to 3/4"
MOC	: Aluminium
Seals	: NBR
Supply Pressure	: 10 Bar
Output Pressure	: 7 Bar
Temperature	: -20 °C ~ 70 °C

Manual Override Clutch Type (MO)



Model	: AMO
Torque	: 200 Nm to 10000 Nm
Body	: Aluminium Pressure Die Cast / S. G. Iron
Lever Wheel	: Stainless Steel
Hand Wheel	: S.S. / M.S. (Fabricated)

Installations

- Indian Oil
- Reliance Industries Limited
- ONGC
- Hindalco
- Godrej
- Indian Railway
- Vedanta
- Voltas
- NTPC
- Gujarat State Fertilizers & Chemical Ltd.
- L & T
- Gail
- Hindustan Petroleum
- BHEL
- IFFCO
- BARC
- Thermax
- Essar

Application

- Process & Chemical
- Refineries & Petrochemicals
- Drugs & Pharmaceuticals
- Thermal Power Stations
- Dyes & Intermediates
- Breweries & Distilleries
- Steel Plants
- Onshore & Offshore Platforms
- Steel Plants
- Solvent Extraction Plants
- Sewage
- Cooling Water
- Ship Yards & Marine Management
- LPG Bottling Plants
- Water Works
- Pulp & Paper
- Fertilizers
- Textiles
- Sugar
- Nuclear & Atomic Power Stations
- Paints & Varnishes
- Soaps & Detergents
- Slurry & Ash handling
- Food & Oil Industry
- Effluent & Water Treatment

This Product is Generally made to use on the High Pressure Piping System, It is Widely Applied for Major Industrial Sectors



Ship Yards & Marine Management
Thermal Power Station
Dyes & Intermediates

Marine Tankers- Ship Building

Military Application

Foundary

Process & Chemical

Pulp & Paper Plants

Off Shore Plants

Water Treatment – Purification

Food Plants

Tobacco Industries

Steel & metal Plants

Chemical and Dyeing Fluids in Textile Processing

Solvent Extraction Plants

Nuclear & Atomic Power Stations



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superior performance*

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industrial valve automation

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INDORE	UMARGAON (VAPI)
ICHALKARANJ (MAHARASHTRA)	VAPI
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