

Your Solution
Partner In
Industrial Valve Automation...



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



**MODEL :
3CVS & 3CVF**



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

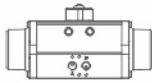
OHSAS (Occupational Health & Safety Management System)

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

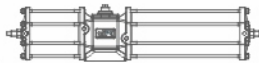
Pneumatic Actuator

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



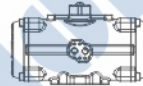
Scotch & Yoke Actuator

CE / ATEX / SIL-3



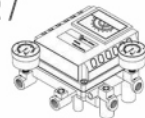
Stainless Steel Actuator

CE /
IEP ATEX



Positioner Enclosure

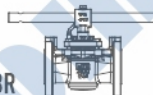
CE / CIMFR /
IP67 / BIS
/ PESO



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



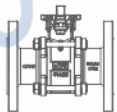
Limit Switch

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



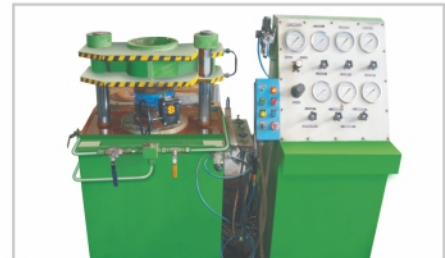
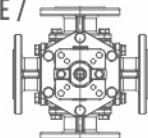
Butterfly Valve (centric / Double & Triple Eccentric)

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 High Pressure Control Valve



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

Size Range : 1/2" to 2.1/2" Screwed / Flanged

Actuator Specification		Valve Type	
Port Connection	1/4" BSP (NPT On Request)	Normally Close	Energised To Open
Operating Pressure	4.5 to 7 BAR	Normally Open	Energised To Open
Operating Cycles	350 to 650 Cycles / Hr.	Double Acting	

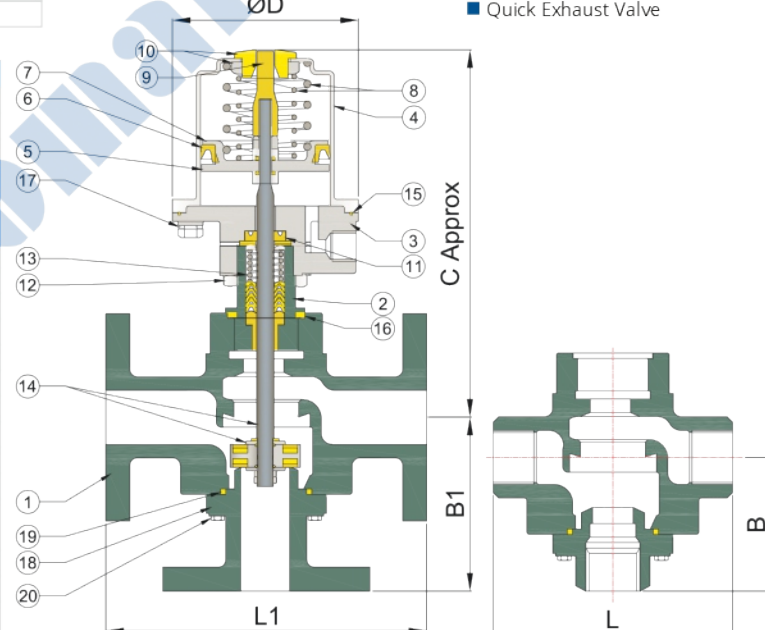
Valve Specification	
Body Test Pressure	PN 10 (PN 20 One Size Higher Actuator & PN 40 Two Size Higher Actuator
Working Pressure	Refer to Table
Working Temperature	PTFE 180 °C / CFT 220 °C
Leakage	As Per ANSI B 16.104 - 1976 Teflon Seating Class IV For Other Soft Seating Class VI Drop Tight / Bubble Tight

Technical Specification Table

Size		Orifice	Max. Oper. Press. Bar	Flow Factor Kv M3/hr	Actuator Bore mm	Air Consumption Lit./ Cycle
MM	Inch	mm				
15	1/2"	15	10	3.3	70	0.151
20	3/4"	18	10	4.7	70	0.151
25	1"	23	10	8.5	70	0.162
40	1.1/2"	36	10	22.5	100	0.309
50	2"	45	-----	35	100	0.325
65	2.1/2"	59.5	-----	---	120	---

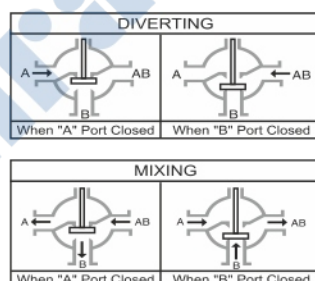
For Any Different Technical Requirement - Available On Request

Sr. No.	Description	Material
1	Body	CF8 / CF8M
2	Bonnet	CF8 / CF8M
3	Flange	ALLU.ALLOY.CF8 / CF8M
4	Cap	S.S. 304
5	Piston Flat Washer	M.S
6	Piston V-Seal	High Nitrlle
7	Piston Cap Washer	M.S
8	Piston Spring (R.H) & (L.H)	SPRING STEEL
9	Piston Indicator	NYLONE
10	Piston Indicator Guide & nut	NYLONE
11	V-Seal For Flange	High Nitrlle
12	Lock nut For Flange	M.S
13	Spring For Bonnet	S. S. 304
14	Plug + Shaft	S. S. 304
15	O-Ring For Flange	High Nitrlle
16	Teflon For Body	PTFE (Sealing Gasket)
17	Piston Cap Hex Bolt & Spring Washer	S. S. 304
18	Connector	CF8 / CF8M (Sealing Gasket)
19	Teflon For Connector	s. s. 304
20	Connector Hex Bolt & Spring Washer	



Accessories

- On / Off Type Limit Switch
- Combination (Filter + Regulator)
- Moisture Separator
- Quick Exhaust Valve



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

Dimensions :

Size		3CVS S/E	3CVF F/E	B	B1	C	ØD	Weight Approx.	
Inch	MM	L	L1					3CVS	3CVF
1/2"	15	85	151	50	83	185	102	1.760	3.000
3/4"	20	110	185	66	130.5	194	102	2.220	3.560
1"	25	120	189	72	106.5	204	102	3.000	4.900
1.1/2"	40	150	232	91	132	285	134	7.320	10.240
2"	50	190	283	100	146.5	292	164	10.440	14.560
2.1/2"	65	243	On Req.	108	On Req.	On Req.	164	---	---

(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

Model
AEP-1000-R

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

Model
APP-1200-RDN



Pneumatic - Pneumatic & Electro Pneumatic LINEAR Valve Positioner



Electro - Pneumatic

Model
AEP-1000-LSN

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



Pneumatic - Pneumatic

Model
APP-1200-LSN



SMART Positioner LINEAR



Model

Body

Set Point Signal

Ambient Temperature

Supply Pressure

Flow



: IP 6000 Series

: Aluminium

: 4 - 20mA DC

: Normal Version : -20 °C ~ 70 °C
Optional Version : -40 °C ~ 70 °C

: 0.14 - 0.7 MPa

: 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

: Honeywell ZM / NJ2-V3-N /

NBB-V3-Z4

: 1 NO + 1 NC / 2 Switch

: IP 67

Type

Enclosure

Protection

Ambient

Temperature

Conduit Entry

Terminal

Mounting Bracket

Material

: -20 °C to 80 °C

: 1/2" - NPT

: 8 Point

: Namur VDI / VDE3845 / ISO 5211

: 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

: 1 NO + 1 NC / 2 NO + 2 NC / 2 Switch

Type

Enclosure Protection

Ambient Temp.

Conduit Entry

Terminal

Mounting Bracket

Material

: IP 68

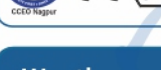
: -20 °C to 80 °C

: 1/2" - NPT

: 8 Point

: Namur VDI / VDE3845 / ISO 5211

: 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

: 1 NO + 1 NC / 2 NO + 2 NC / 2 Switch

Type

Enclosure Protection

Ambient Temp.

Conduit Entry

Terminal

Mounting Bracket

Material

: IP 67

: -20 °C to 80 °C

: 1/2" - NPT

: 8 Point

: Namur VDI / VDE3845 / ISO 5211

: 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

: Honeywell V 15 / NJ2-V3-N /

NBB-V3-Z4 / NCB2-V3-NO

: 1 NO + 1 NC / 2 NO + 2 NC /

2 Switch

: IP 67

Enclosure

Protection

Ambient Temperature

Conduit Entry

Terminal

Mounting Bracket

Material

: -20 °C to 80 °C

: 1/2" - NPT

: 8 Point

: Namur VDI / VDE3845 /

ISO 5211

: 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

: Honeywell V 15 / NJ2-V3-N /

NBB-V3-Z4 / NCB2-V3-NO

: 1 NO + 1 NC / 2 NO + 2 NC /

2 Switch

: IP 67

Enclosure

Protection

Ambient Temperature

Conduit Entry

Terminal

Mounting Bracket

Material

: -20 °C to 80 °C

: 1/2" - NPT

: 8 Point

: Namur VDI / VDE3845 /

ISO 5211

: 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

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



*time tested designs with
superior performance*

GLOBAL

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industrial valve automation

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GWALIOR	TARAPUR
HYDERABAD	TRAJAPUR (RAJKOT)
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ICHALKARANJ (MAHARASHTRA)	VAPI
JAIPUR	VASAI
JODHPUR	VATVA
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COIMBATORE	PANIPAT
DELHI	PEENYA
ERODE	PUNE
FARIDABAD	TRIPUR
GHAZIABAD	VARANASI
GOA	VISAKHAPATNAM
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INDIA

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