

Your Solution Partner In
Industrial Valve Automation...



Wafer Type Damper **BUTTERFLY VALVE**



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 know 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. Out 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).

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QMS (Quality Management System)

ISO 9001 : 2015

EMS (Environment Management System)

ISO 14001 : 2015

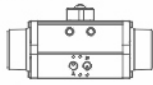
OHSAS (Occupational Health & Safety Management System)

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

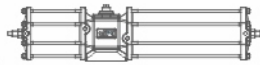
Pneumatic Actuator

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



Scotch & Yoke Actuator

CE / ATEX / SIL-3



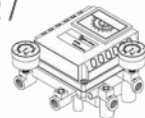
Stainless Steel Actuator

CE /
IEP ATEX



Positioner Enclosure

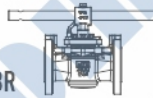
CE / CIMFR /
IP67 / BIS
/ PESO



aira's
SOME OF OUR
Certificates

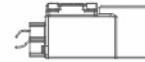
Plug Valve

FUGITIVE EMISSIONS
TEST
AS PER ISO
15848-1 / IBR



Flameproof Solenoid Valve

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



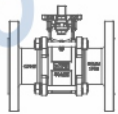
Limit Switch

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 /
EXIDA SIL-3



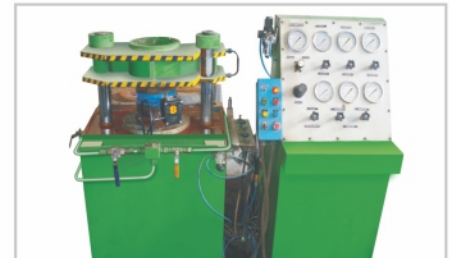
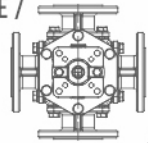
Butterfly Valve (centric / Double & Triple Eccentric)

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

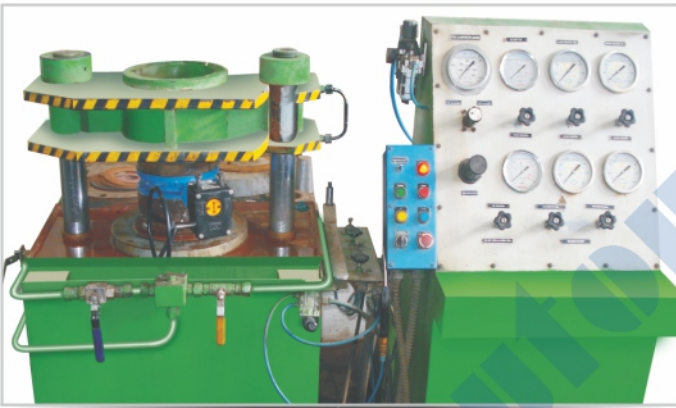


Multiport Ball Valve

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



Company Profile



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"aira" Offers Pneumatic Actuator Operated The butterfly or wafer damper can be a stack damper where sealing or tight shut-off is not all-important. This type is used as an isolating damper for flue-gas scrubbers. The butterfly damper is lightweight, simple, quickly actuated and often comparatively low in cost. In process work, oval shapes adapt to that shape of duct. Occasionally, a double-disc butterfly appears resembling a

circular two-bladed louver damper. The drive for a butterfly damper is also simple, needing only 90° of motion. The torque requirement can vary widely over damper life, if corrosion and thermal effects are severe.

Size Range : 1.1/2" to 20" (40 MM to 500 MM)

Butterfly Valve Specification

Valve Type	Wafer Type Damper Valve with Metal to Metal
Body Type	Short Wafer Type (Sandwiched between flanges) Damper
Seat Type	Metal to Metal
End Connection	Wafer Sandwiched (Lug Type On Request)
Pressure Rating	PN 6 (Maximum)
Oper. Temp. Range	-25 °C to 400 °C (Depending On MOC) (Upto 600 °C On Req.)
Seat Leakage	5% Leakage of full flow (Class 1 Available On Request)

TEST PRESSURE

Testing	Body	Seat
Hydraulic	10 Kg/cm ²	5% Leakage

Accessories

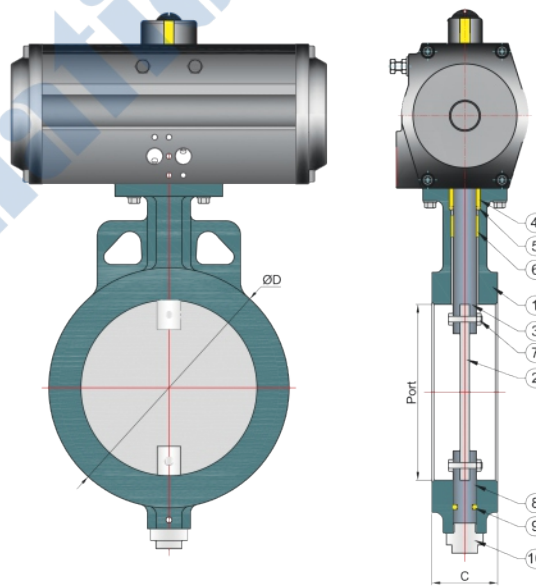
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - On Request)
- Pneumatic & Electro-Pneumatic valve positioner
- Decutchable Manual Over - Ride
- Limit Switches for On / Off Indication at Panel Board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

Dimensions :

Valve Model	Valve Size		Port ±1 MM	C ±2 MM	ØD ±5 MM
	MM	Inch			
DP - 40	40	1.1/2"	40	33.5	85
DP - 50	50	2"	50	43.5	80
DP - 65	65	2.1/2"	65	46	102
DP - 80	80	3"	80	46	125
DP - 100	100	4"	100	52	139
DP - 125	125	5"	125	56	168
DP - 150	150	6"	150	56	204
DP - 200	200	8"	200	60	252
DP - 250	250	10"	245	68	316
DP - 300	300	12"	295	78	362
DP - 350	350	14"	340	78	405
DP - 400	400	16"	388	102	470
DP - 450	450	18"	450	90	540
DP - 500	500	20"	490	90	595

(All Dimensions are in mm)


Note : Big Sizes also available.



No.	Description	Material
1	Body	ASTM - A 126 Grade B (Gray Iron) ASTM - A 216 Grade WCB (Cast Steel) ASTM - A 536 Grade 65-45-12 (Ductile Iron) ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN
2	Disc	IS 2062 Gr. B (M.S.) / AISI 304 / AISI 316
3	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
4	Bush	PTFE
5	Graphoile Ring	Graphite
6	Bering Bush	Metal Bush PTFE Coated
7	Nut & Bolt	S. S. 202 / S. S. 304
8	Bottom Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L
9	Graphoile Ring	Graphite
10	Bottom Cover	EN 8

Model : APP-1200-L
APP-1200-R

"aira" Rotary / Liner Type Pneumatic - Pneumatic Valve Positioner



Input Signal : 3 ~ 15psi (0.2-1.0 kgf/cm²)
Supply Air Pressure : 100 psi Max. (7.0 kgf/cm²)
Standard Stroke : 10 ~ 80mm
Air Piping Connection : 1/4" NPT (F)
Temperature : -20 °C to 70 °C
Pressure Gauge : Stainless Steel
Explosion-Proof : Ex 'd' II CT6
Degree of Protection : IP66
Pressure Gauge : Stainless Steel 0-2 kg/cm²
 0-4 kg/cm² / 0-10 kg/cm²
 : Rotary

Output Characteristics
Linearity : Within ± 1.0% F.S.
Sensitivity : Within 0.2% F.S.
Hysteresis : Within 0.2% F.S.
Repeatability : Within ± 0.75% F.S.
Air Consumption : 5.0 LPM (1.4 kg/cm²) Supply
Flow Capacity : 80 LPM (1.4 kg/cm²) Supply
Material : Aluminium Die cast Body
Weight : 1.8 Kg. (Approx)

IS / IEC 60079-1
CML-3812155


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Model : AEP-1000-L
AEP-1000-R

"aira" Rotary / Liner Flameproof cum Waeatherproof Electro Pneumatic Valve Positioner



Input Signal : 4~20 mA DC
Input Resistance : 235 ±15
Supply Air Pressure : 20 ~ 100psi (7.0 kg/cm²)
Standard Stroke : 10 ~ 80mm
Air Piping Connection : 1/4" NPT (F)
Conduit Connection : 1/2" NPT (F)
Explosion-proof : Ex 'd' II CT6
Degree of Protection : IP66
Temperature : -20 °C to 70 °C
Pressure Gauge : Stainless Steel 0-2 kg/cm²
 0-4 kg/cm² / 0-10 kg/cm²
 : Rotary

Output Characteristics
Linearity : Within ± 1.0% F.S.
Sensitivity : Within 0.2% F.S.
Hysteresis : Within 0.75% F.S.
Repeatability : Within ± 0.5% F.S.
Air Consumption : 5.0 LPM (1.4 kg/cm²) Supply
Flow Capacity : 80 LPM (1.4 kg/cm²) Supply
Material : Alluminium Die Cast Body
Weight : 2.8 Kg. With a terminal box


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"aira" Weatherproof Micro Limit Switch Box Dom Indicator Type On/Off Indicator



Type : Mechanical Switch X 2 / Proximity Sensors P&F Make
Model Switch : LA4 - FLP - 01
 : Honywell V15 / Honywell V15 / NJ2-V3-N (Upto 8V) / NBB3-V3-Z4 (Upto 10 to 60 VDC)
Type Switch Rating : 1 NO + 1 NC / 2 NO + 2 NC
 : AC 250V 3A, 125V 5A & DC 250V 0.2A, 125V 0.4A, 30V 4A
Enclosure Protection : IP 67
Temperature : -20 °C ~ 80 °C
Conduit Entry : NPT 1/2" (PT 1/2", PF 1/2, M20, PG 13.5)
Terminal Mounting Bracket : 8 Points
 : Namur VDI / VDE 3845, ISO 5211
Material : Aluminum Pressure Die Cast


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"aira" Flameproof Limit Switch Box



Type : Mechanical Switch X 2 / Proximity Sensors P&F Make
Model Switch : MLS - BX - FLP - 01
 : Honywell V15 / Honywell V15 PCB Type / NJ2-V3-N (Upto 8V) / NBB3-V3-Z4 (Upto 10 to 60 VDC)
Type Switch Rating : 1 NO + 1 NC / 2 NO + 2 NC
 : AC 250V 3A, 125V 5A & DC 250V 0.2A, 125V 0.4A, 30V 4A
Enclosure Protection : IP 67
Temperature : -20 °C ~ 80 °C
Conduit Entry : NPT 1/2" (PT 1/2", PF 1/2, M20, PG 13.5)
Terminal Mounting Bracket : 8 Points
 : Namur VDI / VDE 3845, ISO 5211
Material : Aluminum Pressure Die Cast


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"aira" Flameproof Micro Limit Switch Box with Stainless Steel 304 / 316



Type : Mechanical Switch X 2 / Proximity Sensors P&F Make
Model Switch : LS4 - FLP-01
 : Honywell V15 / Honywell V15 PCB Type / NJ2-V3-N (Upto 8V) / NBB3-V3-Z4 (Upto 10 to 60 VDC)
Type Switch Rating : 1 NO + 1 NC / 2 NO + 2 NC
 : AC 250V 3A, 125V 5A & DC 250V 0.2A, 125V 0.4A, 30V 4A
Enclosure Protection : IP 67
Temperature : -20 °C ~ 80 °C
Conduit Entry : NPT 1/2" (PT 1/2", PF 1/2, M20, PG 13.5)
Terminal Mounting Bracket : 8 Points
 : Namur VDI / VDE 3845, ISO 5211
Material : Stainless Steel 304 / 316


IS / IEC 60079-1
CML-3812155

CIMFR

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"aira" Weatherproof Limit Switch Box




Type : Mechanical Switch X 2 / Proximity Sensors P&F Make
Model Switch : MMLS - BX - WP - 01
 : Honywell ZM / NJ2 - V3 - N (Upto 8 Voltage) / NBB - V3 - Z4 (Upto 10 to 60 VDC)
Type Switch Rating : 1 NO + 1 NC
 : AC 250V 3A, 125V 5A & DC 250V 0.2A, 125V 0.4A, 30V 4A
Enclosure Protection : IP 67
Temperature : -20 °C ~ 80 °C
Conduit Entry : NPT 1/2" (PT 1/2", PF 1/2, M20, PG 13.5)
Terminal Mounting Bracket : 8 Points
 : Namur VDI / VDE 3845, ISO 5211
Material : Aluminum Pressure Die Cast

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CML-3812155

CIMFR

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“aira” 3/2 Way Namur Direct Acting Solenoid Valve

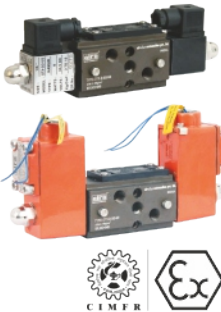
Model	: NAM-SA-32
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (BSP / NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Temperature	: -20 °C ~ 70 °C (-4 ~ 158 °F)
MOC	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 8 BAR

This 3/2 Namur is suitable for actuator model : 5412-S / ARA-49S / ARA-50S




“aira” 3/2 & 5/2 Way Convertible Poppet Type Single Namur Solenoid Valve

Model	: OTX - PPT - 32 / OTX - PPT - 52
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (BSP / NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Temperature	: -20 °C ~ 70 °C (-4 ~ 158 °F)
MOC	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 8 BAR




“aira” 3/2 & 5/2 Way Convertible Poppet Type Double Namur Solenoid Valve

Model	: 2OTX - PPT - 52
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (BSP / NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Temperature	: -20 °C ~ 70 °C (-4 ~ 158 °F)
MOC	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 8 BAR



“aira” 3/2 & 5/2 Way Convertible Spool Type Single Namur Solenoid Valve

Model	: AMV-NAM-220
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (BSP / NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Temperature	: -20 °C ~ 70 °C (-4 ~ 158 °F)
Body Material	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 8 BAR




“aira” 3/2 & 5/2 Way Convertible Spool Type Double Namur Solenoid Valve

Model	: 2AMV-NAM-220
Coil Voltage	: All Std. Voltage Available
Frequency	: 50 - 60 Hz
Connection Type	: 1/4" (BSP / NPT)
Conduit	: PF 1/2"
Coil Insulation Grade	: Class "F"
Temperature	: -20 °C ~ 70 °C (-4 ~ 158 °F)
Body Material	: Aluminium
Seals	: NBR (Viton On Request)
Working Pressure	: Upto 8 BAR



“aira” AJ Series 3/2 Way Direct Acting Solenoid Valve (Normally Open & Closed)

Model	: AIDS-09-202
Size	: 1/4" BSP
Body	: Aluminium Pressure Die Cast
Orifice	: 2 MM
Pressure	: 7 Kg/cm ² / 10 Kg/cm ²
Temp.	: Upto 50 °C
Leakage	: Bubble Tight
Frequency	: 50 ~ 60 Hz
Coil Insulation Grade	: Class "F"
Media	: Air (Filtered & Lubricated)
Voltage	: All Std. Voltage Available



“aira” Filter + Regulator Air Combination

Model	: 4FQ / 8 FQ / FRJ
Air Connection	: 1/4" BSP
Max. Supply Pressure	: 4FQ: 0.5 to 4 Kg/cm ² 8FQ: 0.5 to 8 Kg/cm ² 1 to 9 Kg/cm ²
Gauge Connection	: 1/8"
Ambient Temperature	: -20 °C ~ 120 °C (High Temp.) -40 °C ~ 120 °C (low Temp.)
Mini Filtering Size	: 5 Micron
Material	: Aluminium Pressure Die Cast

(4FQ / 8FQ) (FRJ)



“aira” Air Volume Booster


Model	: VLB
Size	: 1/4" to 1" BSP
MOC	: Aluminium / S. S. 304 / 316
Seals	: NBR
Max. Supply Pressure	: Max. 1Mpa (10 Bar)
Max. Output Pressure	: Max. 0.7 Mpa (7 Bar)
Temperature	: -20 °C ~ 70 °C (Standard) -20 °C ~ 120 °C (High) -40 °C ~ 70 °C (Low)
Linearity	: 1 : 1
Hysteresis	: 1%



“aira” Single & Double Air Lock Valve

Model	: SALV / DALV
Material	: Aluminum / Stainless Steel 304
Max. Supply Pressure	: Max. 10.2 Kg/cm ² (142 PSI)
Max. Single Pressure	: Max. 7.1 Kg/cm ² (1000 PSI)
Setting Pressure Range	: 1.4-7.1 Kg/cm ² (20 ~ 100 PSI)
Flow Capacity (Cv)	: 0.9
In/Output Port Connection	: 1/4" NPT
Signal Port Connection	: 1/4" NPT
Differential Pressure	: Below 0.1 Kg/cm ² (1.4 PSI)
Hysteresis	: 1%
ambient Temp.	: -20 °C ~ 70 °C

DALV SALV



“aira” 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)

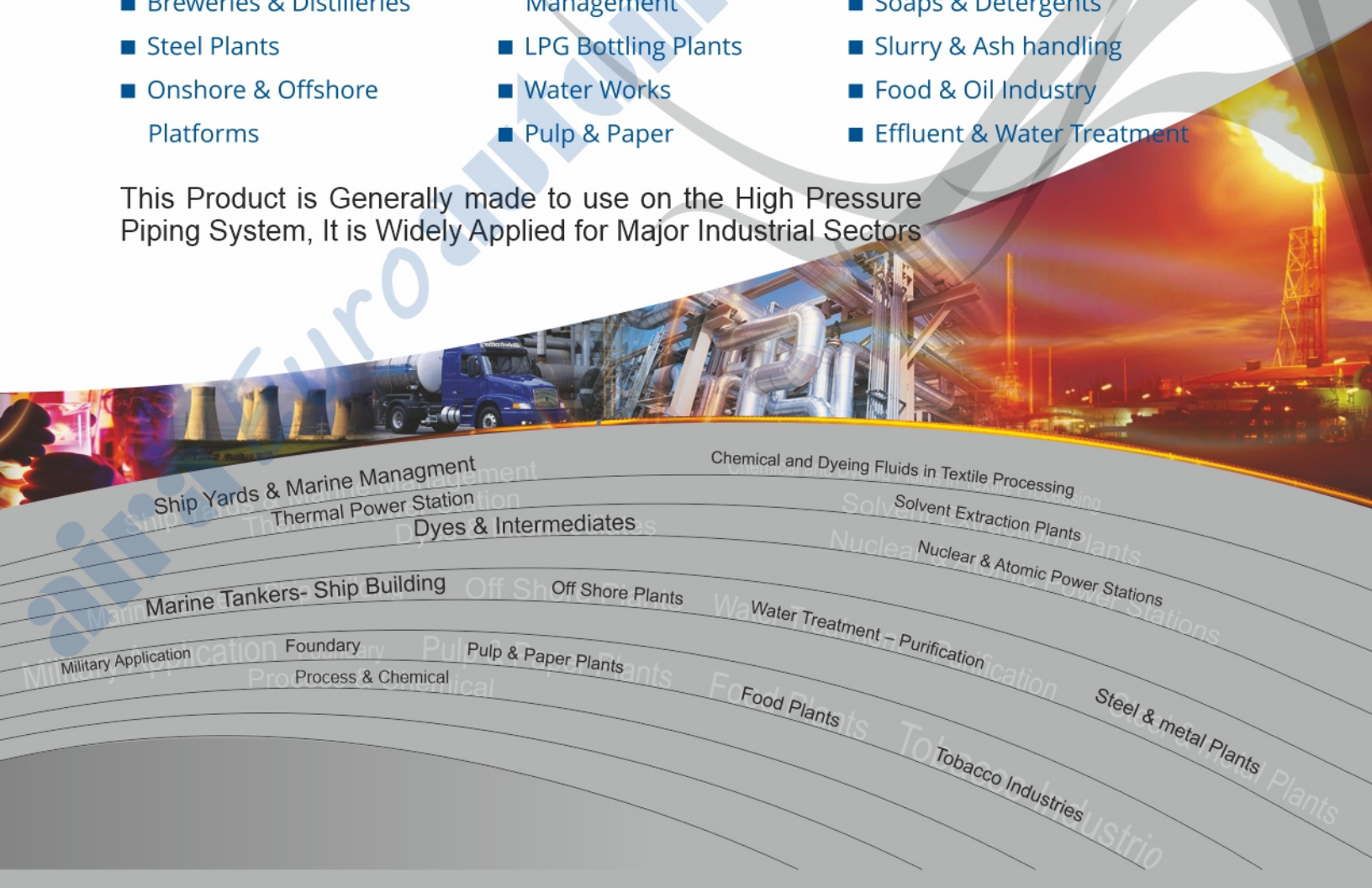
Installations

- 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

Off Shore Plants

Military Application

Foundary

Pulp & Paper Plants

Water Treatment - Purification

Food Plants

Steel & metal Plants

Tobacco Industries

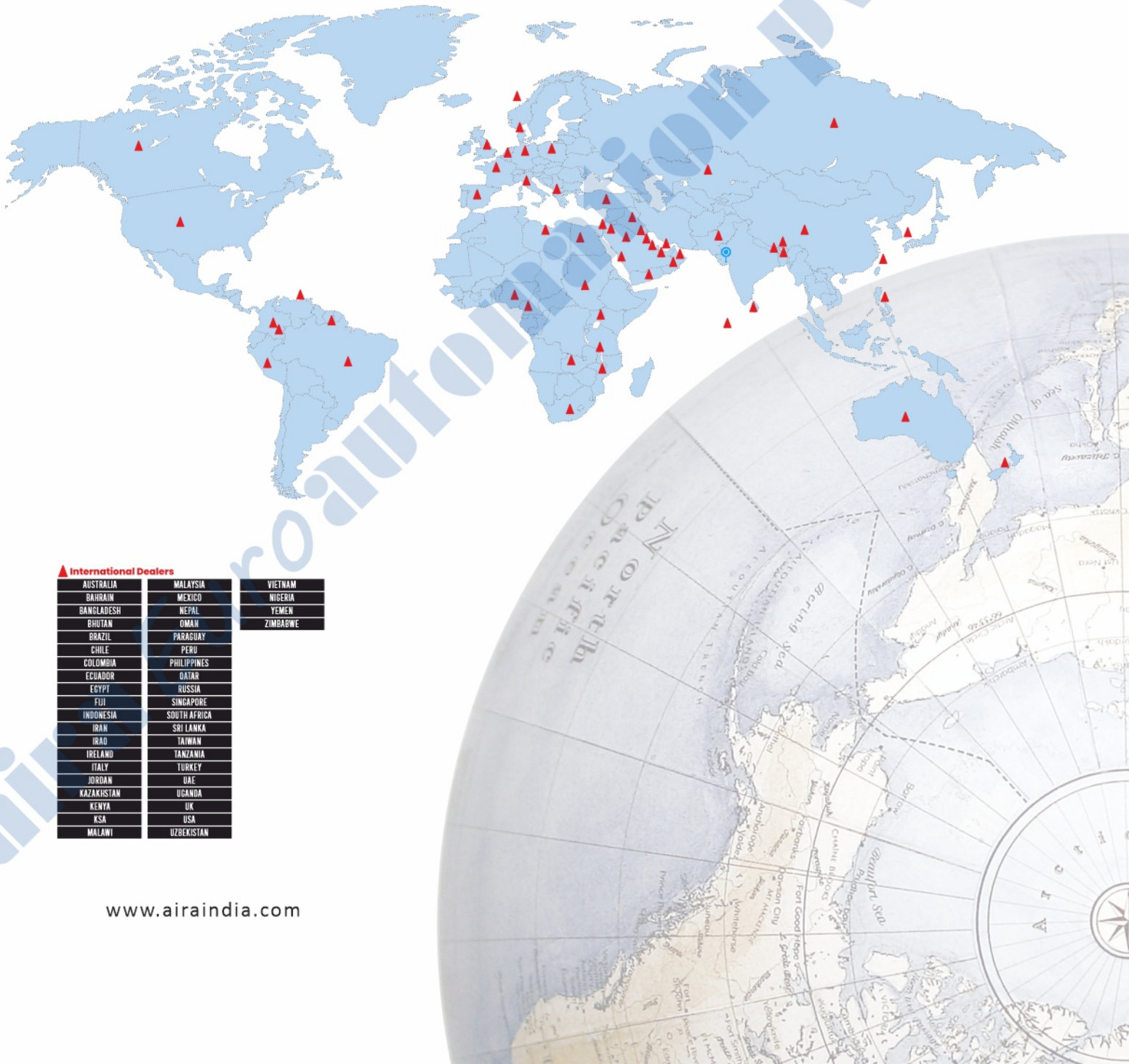
Plants



time tested designs with superior performance

GLOBAL

Network



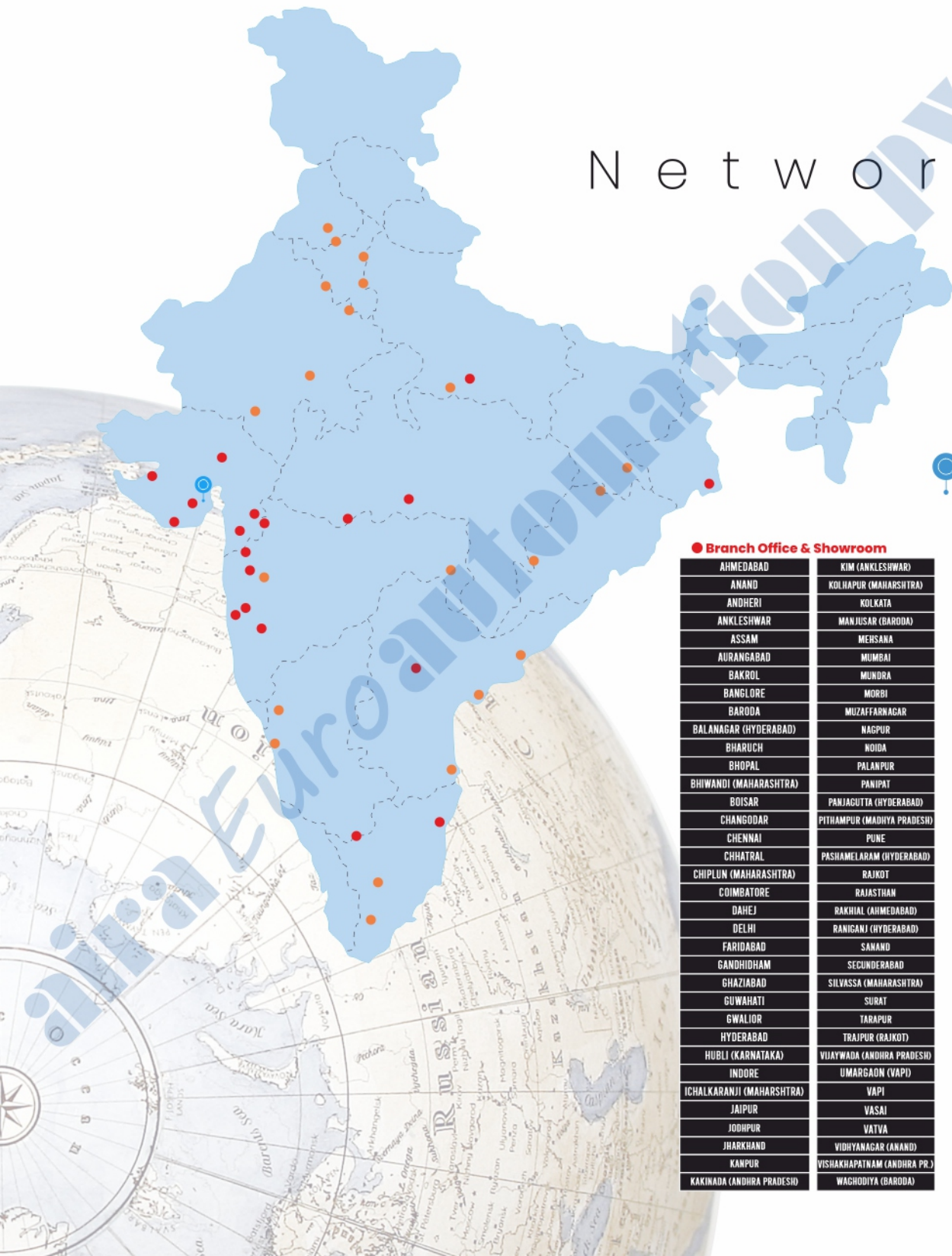
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industrial valve automation

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AHMEDABAD

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COIMBATORE	RAJASTHAN
DAHEJ	RAKHIAL (AHMEDABAD)
DELHI	RANIGANJ (HYDERABAD)
FARIDABAD	SANAND
GANDHIDHAM	SECUNDERABAD
GHAZIABAD	SILVASSA (MAHARASHTRA)
GUWAHATI	SURAT
GWALIOR	TARAPUR
HYDERABAD	TRAJIPUR (RAJKOT)
HUBLI (KARNATAKA)	VIJAYWADA (ANDHRA PRADESH)
INDORE	UMARGAON (VAPI)
ICHALKARANJI (MAHARASHTRA)	VAPI
JAIPUR	VASAI
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INDIA

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