

Your Solution Partner In
Industrial Valve Automation...



Inflatable Seated With Replaceable Seat (Muffler) **BUTTERFLY VALVE**



Mfg. & Mkt by :

airaEuroautomation 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

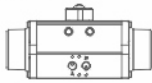
OHSAS (Occupational Health & Safety Management System)

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

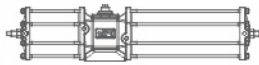
Pneumatic Actuator

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



Scotch & Yoke Actuator

CE / ATEX / SIL-3



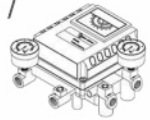
Stainless Steel Actuator

CE /
IEP ATEX



Positioner Enclosure

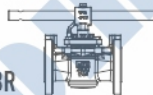
CE / CIMFR /
IP67 / BIS
/ PESO



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



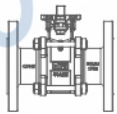
Limit Switch

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



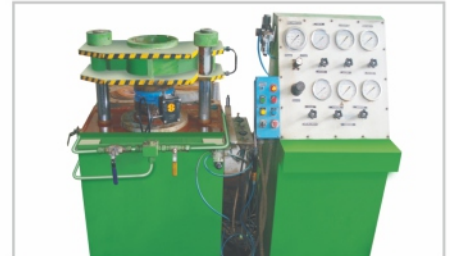
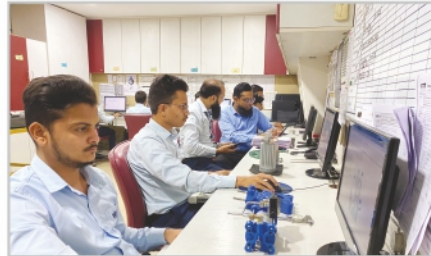
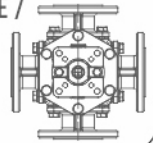
Butterfly Valve (centric / Double & Triple Eccentric)

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



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Company Profile



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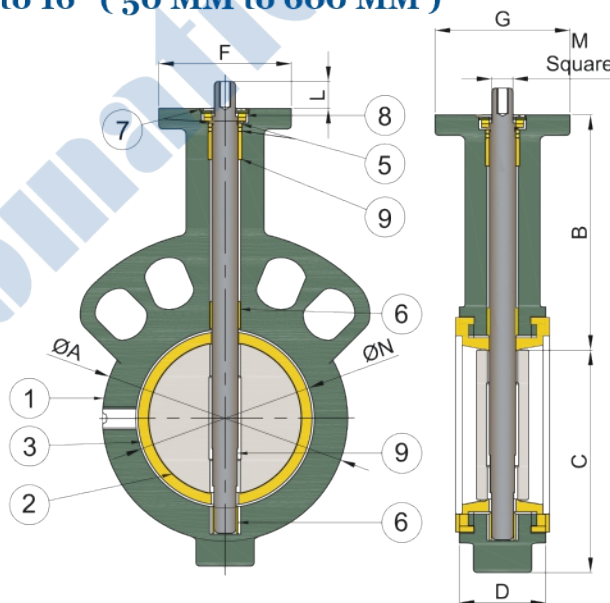
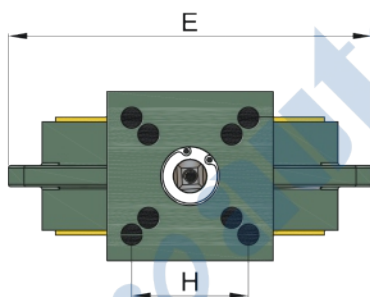
Inflatable Seated with Replaceable Seat (Muffler) Butterfly Valve



"aira" Offers An inflatable seated butterfly valve designed for dry bulk solids or liquid slurry & Powder applications is available from **aira**. The valve is ideally suited for abrasive materials such as sand, feldspar, fly ash and most other dry, granular materials, which reduce valve life. The inflatable seat design provides a better seal by utilizing air pressure to expand the seat against the disc, providing more sealing area and an even pressure distribution against the disc every time. The seat automatically compensates for wear when it inflates against the disc, extending valve life considerably. Because the **aira** disc only makes casual contact with the seat during opening and closing, torque requirements are substantially lower. This ease of movement also allows the disc to come to a perfect 90-degree position every time. Additionally, the smooth profile of the disc helps material flow easier and reduces build-up. For unique fail-safe monitoring, a pressure switch can be utilized to verify a perfect seal. Valve design is a one-piece housing with separate shaft and disc. Standard sizes range from 2" (50mm) to 30" (750mm). The valves are available in a wide variety of construction materials. **aira's** unique butterfly valve design uses air pressure to expand the seat against the disc, providing even pressure distribution for a bubble-tight seal, every time. Because the seat makes only casual contact with the disc during valve opening and closing, there is minimal disc impingement. This is in contrast to conventional butterfly valves where disc impingement leads to shaving of the seat, decreasing the overall performance and valve life. Substantially less torque is required to open and close the **aira** butterfly valve, thus a smaller actuator can be used resulting in lower overall valve cost. In actual comparison tests and documented field applications, the **aira** butterfly valve outperformed all other valves. In fact, a **aira** valve even in extremely abrasive applications, is not uncommon. For dry solids, gases and slurry applications, the **aira** inflatable seated butterfly valve is unsurpassed. The **aira** inflatable seated butterfly valves are designed for the most severe conditions. The seat is designed for heavy duty applications and higher operating pressures. Standard valve sizes range from 2" (50mm) to 24" (600mm) and fit both ANSI and metric flanges. A full line of actuators, limit switches and controls are available to suit individual applications.

Size Range : 4" to 16" (50 MM to 600 MM)

Valve Specification	
Temperature Limits	180 °C
Air Supply	135 PSIG (9.3 Bar) maximum to seat, varies with MOC & Application
Working Pressure	1.6 MPa
Operating Torque	Varies with Application



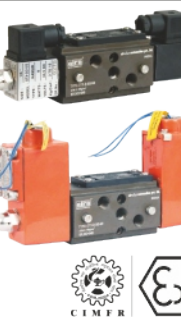
Dimensions : (Butterfly Valve Dimensions in Inch)

Valve Model	Valve Size		A	B	C	D	E	F	G	H	L	M	N
	MM	Inch											
ILM - 50	50	2"	4.52	4.50	2.91	1.62	6.50	4.00	2.12	3.25	0.78	0.43	1.99
ILM - 80	80	3"	5.65	5.56	3.57	1.75	8.19	4.00	2.12	3.25	0.81	0.43	2.89
ILM - 100	100	4"	6.88	7.58	4.42	2.00	8.88	4.00	2.12	3.25	0.70	0.43	3.88
ILM - 125	125	5"	7.75	7.95	6.05	2.12	9.62	4.00	2.12	3.25	0.86	0.55	4.92
ILM - 150	150	6"	8.75	7.95	6.05	2.12	10.69	4.00	2.12	3.25	0.86	0.55	5.88
ILM - 200	200	8"	11.12	9.87	7.24	2.50	14.00	5.25	2.75	4.31	0.88	0.75	7.86
ILM - 250	250	10"	13.31	10.56	8.06	2.50	17.50	5.25	2.75	4.31	0.93	0.75	9.81
ILM - 300	300	12"	15.50	14.28	9.52	3.00	20.25	4.00	4.00	2.84	1.25	0.87	11.83
ILM - 350	350	14"	17.72	16.00	10.50	3.00	22.00	4.00	4.00	2.84	1.02	0.87	13.08
ILM - 400	400	16"	19.75	16.93	12.40	4.25	24.75	7.63	4.62	3.48	1.29	1.06	15.02
ILM - 450	450	18"	21.46	15.84	13.30	4.25	26.84	7.37	4.75	3.48	1.29	1.06	17.13
ILM - 500	500	20"	23.75	17.38	14.38	5.00	30.00	7.37	5.50	3.90	1.57	1.42	18.68
ILM - 600	600	24"	28.00	19.12	16.49	5.94	34.50	8.00	5.75	3.90	1.48	1.42	22.65

Sr. No.	Description	Material
1	Body	S. G. Iron
2	Flapper	CF8 / CF8M
3	Sleeve	EPDM
4	Shaft	S.S. 304
5	'O' - Ring	HI - Nitrile
6	DU Bush	Steel / PTFE
7	Circlip	S.S. 304
8	Sealing Gasket	PTFE
9	Teflon Bush	Teflon

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Model : APP-1200-L APP-1200-R     CCEO Nagpur	"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)	Model : AEP-1000-L AEP-1000-R     CCEO Nagpur	"aira" Rotary / Liner Flameproof cum Weatherproof 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
 	"aira" Weatherproof Micro Limit Switch Box Dom Indicator Type On/Off Indicator Type : Mechanical Switch X 2 / Proximity Sensors P&F Make Model : LA4 - FLP - 01 Switch : Honeywell V15 / Honeywell V15 / NJ2-V3-N (Upto 8V) / NBB3-V3-Z4 (Upto 10 to 60 VDC) Type : 1 NO + 1 NC / 2 NO + 2 NC Switch Rating : 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 : 8 Points Bracket : Namur VDI / VDE 3845, ISO 5211 Material : Aluminum Pressure Die Cast	    CCEO Nagpur	"aira" Flameproof Limit Switch Box Type : Mechanical Switch X 2 / Proximity Sensors P&F Make Model : MLS - BX - FLP - 01 Switch : Honeywell V15 / Honeywell V15 PCB Type / NJ2-V3-N (Upto 8V) / NBB3-V3-Z4 (Upto 10 to 60 VDC) Type : 1 NO + 1 NC / 2 NO + 2 NC Switch Rating : 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 : 8 Points Bracket : Namur VDI / VDE 3845, ISO 5211 Material : Aluminum Pressure Die Cast
 	"aira" Flameproof Micro Limit Switch Box with Stainless Steel 304 / 316 Type : Mechanical Switch X 2 / Proximity Sensors P&F Make Model : LS4 - FLP-01 Switch : Honeywell V15 / Honeywell V15 PCB Type / NJ2-V3-N (Upto 8V) / NBB3-V3-Z4 (Upto 10 to 60 VDC) Type : 1 NO + 1 NC / 2 NO + 2 NC Switch Rating : 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 : 8 Points Bracket : Namur VDI / VDE 3845, ISO 5211 Material : Stainless Steel 304 / 316	  	"aira" Weatherproof Limit Switch Box Type : Mechanical Switch X 2 / Proximity Sensors P&F Make Model : MMLS - BX - WP - 01 Switch : Honeywell ZM / NJ2 - V3 - N (Upto 8 Voltage) / NBB - V3 - Z4 (Upto 10 to 60 VDC) Type : 1 NO + 1 NC Switch Rating : 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 : 8 Points Bracket : Namur VDI / VDE 3845, ISO 5211 Material : Aluminum Pressure Die Cast

	“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 : 20TX - 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 : AJDS-09-202 Size : 1/4" BSP Body : Aluminum Pressure Die Cast Orifice : 2 MM Pressure : 7 Kg/cm² / 10 Kg/cm² 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/cm² 8FQ: 0.5 to 8 Kg/cm² 1 to 9 Kg/cm² 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		“aira” Air Volume Booster Model : VLB Size : 1/4" to 1" BSP MOC : Aluminum / 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/cm² (142 PSI) Max. Single Pressure : Max. 7.1 Kg/cm² (1000 PSI) Setting Pressure Range : 1.4-7.1 Kg/cm² (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/cm² (1.4 PSI) Hysteresis : 1% ambient Temp. : -20 °C ~ 70 °C		“aira” Manual Override Clutch Type (MO) Model : AMO Torque : 200 Nm to 10000 Nm Body : Aluminum Pressure Die Cast / S. G. Iron Lever Wheel : Stainless Steel Hand Wheel : S. S. / M. S. (Fabricated)

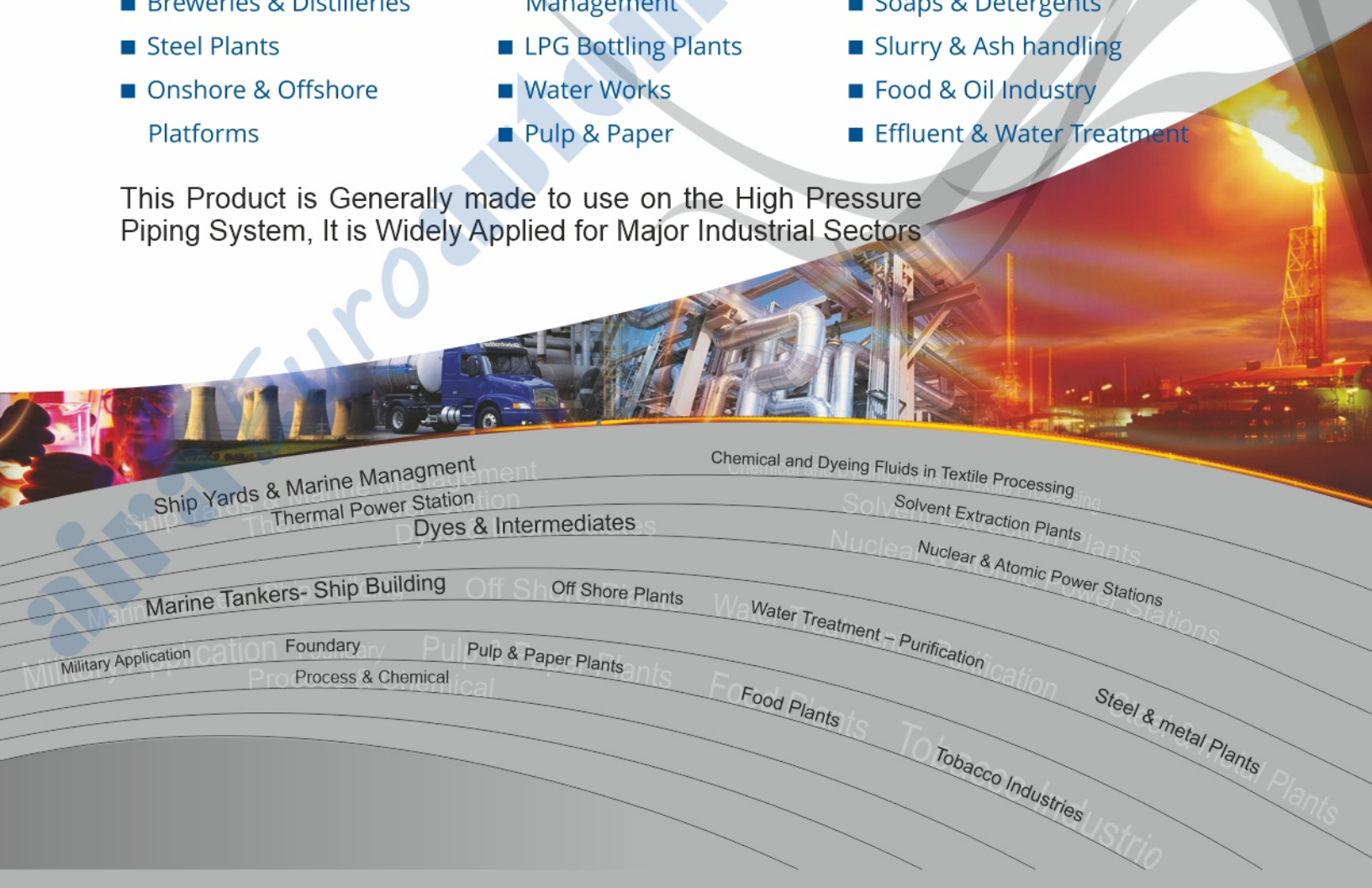
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- NTPC
- Gujarat State Fertilizers & Chemical Ltd.
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- IFFCO
- BARC
- Thermax
- Essar

Application

- Process & Chemical
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- 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
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- Nuclear & Atomic Power Stations
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- 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

Process & Chemical

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superior performance*

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industrial valve automation

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