

YOUR SOLUTION PARTNER IN  
**INDUSTRIAL**  
**VALVE** AUTOMATION...



# 3PC DESIGN METAL SEATED FLANGED/SCREWED BALL VALVE



## APPROVALS



## WEBSITE



Mfg. & Mkt by :

**aira Euro automation pvt. ltd.**

Ahmedabad-382405, INDIA.

[www.airaindia.com](http://www.airaindia.com)





## About Us

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 an 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.

*Clients are why we exist!*

### 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 rates 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).



## SIL 3 CERTIFICATIONS

## CE CERTIFICATE



**SIL 3 - PNEUMATIC ROTARY ACTUATORS**



**SIL 3 - BUTTERFLY VALVE**



**CE - BUTTERFLY VALVE**

## ISO CERTIFICATIONS



**ISO 14001 : 2015**



**ISO 45001 : 2018**



**ISO 45001 : 2018**



**ISO 9001 : 2015**



# CERTIFICATIONS APPROVALS



**QMS (Quality Management System)**

ISO 9001 : 2015

**EMS (Environment Management System)**

ISO 14001 : 2015

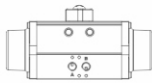
**OHSAS (Occupational Health & Safety Management System)**

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

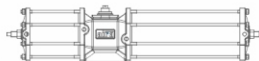
**Pneumatic Actuator**

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



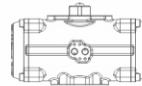
**Scotch & Yoke Actuator**

CE / ATEX / SIL-3



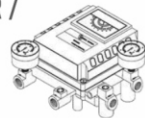
**Stainless Steel Actuator**

CE /  
IEP ATEX



**Positioner Enclosure**

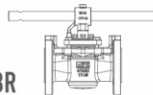
CE / CIMFR /  
IP67 / BIS  
/ PESO



**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



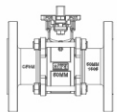
**Limit Switch**

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



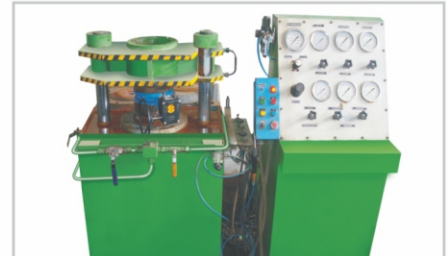
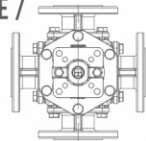
**Butterfly Valve (centric / Double & Triple Eccentric)**

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**

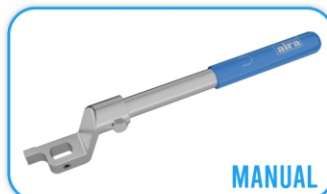
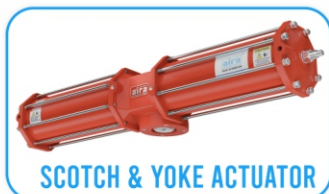
FUGITIVE EMISSIONS TEST  
AS PER ISO 15848-1 / CE /  
PED / EIL





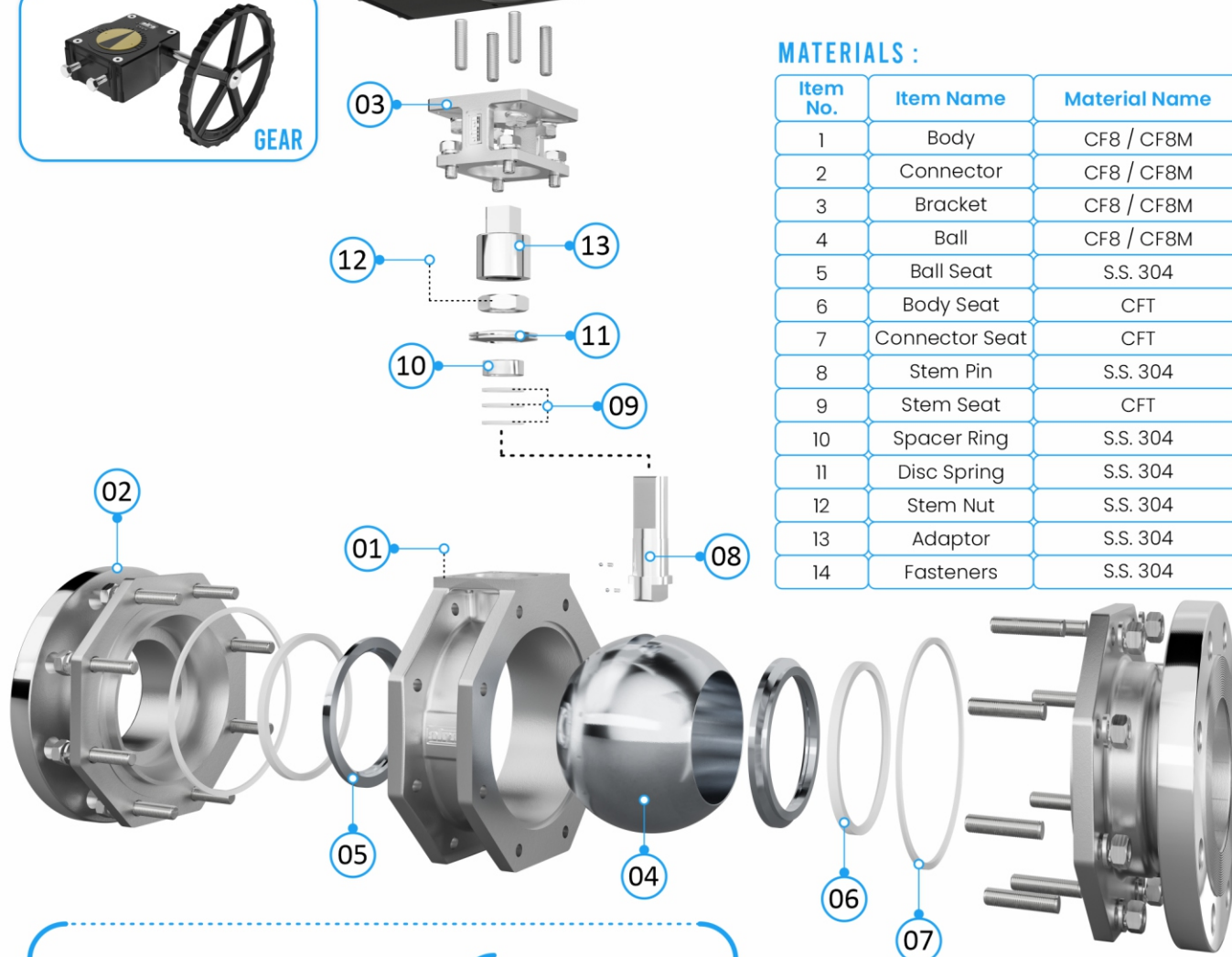
# 3PC METAL SEATED EXPLODED BALL VALVE

## OPERATING VARIANTS :



## MATERIALS :

Item No.	Item Name	Material Name
1	Body	CF8 / CF8M
2	Connector	CF8 / CF8M
3	Bracket	CF8 / CF8M
4	Ball	CF8 / CF8M
5	Ball Seat	S.S. 304
6	Body Seat	CFT
7	Connector Seat	CFT
8	Stem Pin	S.S. 304
9	Stem Seat	CFT
10	Spacer Ring	S.S. 304
11	Disc Spring	S.S. 304
12	Stem Nut	S.S. 304
13	Adaptor	S.S. 304
14	Fasteners	S.S. 304



## CONNECTOR Variants



# 3PC DESIGN METAL SEATED FLOATING BALL VALVE

“aira” Offers Automation And Manually Operated Metal Seated Floating Ball Valve Designed For Using In The Several Conditions Such As High Temperature & High Friction Fluids Of Oil & Gas, Petroleum, Petrochemical, Chemical Power Generation, Pulp & Paper, Mining Industry.

## Standard

- **Design & Manufacturer** : ASME B 16.34 / BS EN ISO 17292
- **Valve Face To Face Dimension** : ASME B 16.10
- **Inspection And Testing** : API 598 / ISO-5208 / BS EN 12266-1
- **Leakage Class** : ANSI FCI 70-2 Class IV - V
- **End Connection** : ISO 7-1 FOR Screwed BSPT / ASME B 1.20.1 for Screwed BPT / ASME B 16.5 for Flanged 150#

**SIZE RANGE** 1/2" UPTO 4" SCREWED 150#  
1/2" UPTO 6" FLANGED 150#

## Features

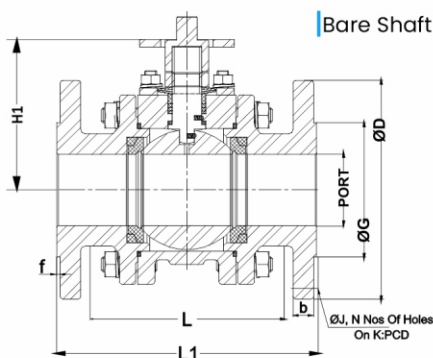
- Metal Seated Ball Valves Are Inherently Fire Safe And It's Design Is Metal Anti-static By Nature Of The Metal To Metal Contact.
- Harden Face Treatment On Ball And Seats Provides The Longer Life Cycle In High Temperature Environment.
- Advanced Seat Structure And High Precision Ball Preparation Can Ensure Sealing Performance And Reduce The Operation Torque.
- Highly Precise Machining Enables The Ball And Seattight Shut-off.
- Suitable For Temperature Range -50°C To 500°C (-50°C To 800°C (On Request)).



## Why Metal Seated Ball Valve ?

- Abrasive Media Even Small Particles Can Damage Soft Seats.
- Above 260°C The Use Of Soft Seats Is Not Recommended.

CE, SIL 3  
Approved

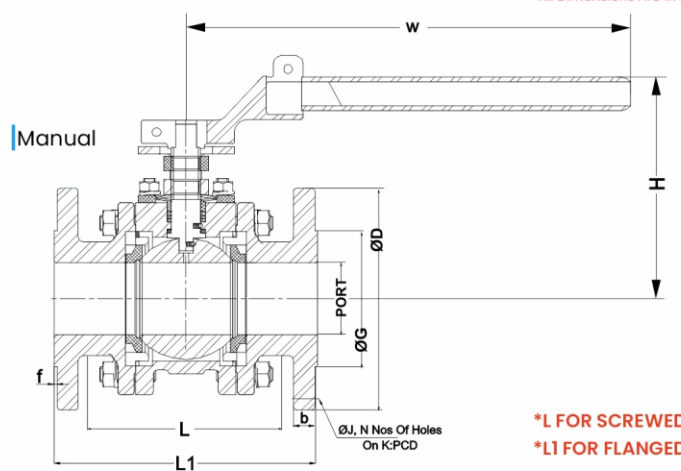


Valve Size	FLANGED										SCREWED			
	L1-150#	PORT	ØD	ØG	b	f	ØJ	N	K-PCD	H	HI	W	L-150#	TAP
15 MM	108	13	90	34.9	8	2	15.88	4	60.3	90	59	170	71	1/2"
20 MM	117	19	100	42.9	8.9	2	15.88	4	69.9	110	79	173	94	3/4"
25 MM	127	25	110	50.8	9.6	2	15.88	4	79.4	118	86	210	109	1"
32 MM	140	32	115	63.5	11.2	2	15.88	4	88.9	116	92	210	116	1 1/4"
40 MM	165	38	125	73	12.7	2	15.88	4	98.4	201	95	267	128	1 1/2"
50 MM	178	49	150	92.1	14.3	2	19.05	4	120.7	145	103	276	158	2"
65 MM	190	62	180	104.8	15.9	2	19.05	4	139.7	177	131	310	185	2 1/2"
80 MM	203	74	190	127	17.5	2	19.05	4	152.4	207	159	310	205	3"
100 MM	229	100	230	157.2	22.3	2	19.06	8	190.5	222	173	321	ON REQUEST.	
150 MM							ON REQUEST.							

\*All Dimensions Are In MM

## Types Of Coating Details On Ball & Ball Seat

Coating Material	Maximum Temperature
Tungsten Carbide (WC - CO)	-200°C to 450°C
Chromium Carbide (Cr7C3+25%Nici)	-200°C to 800°C
Stellite - 6 (CoCrWC)	550°C
Nitriding & Lapping	450°C



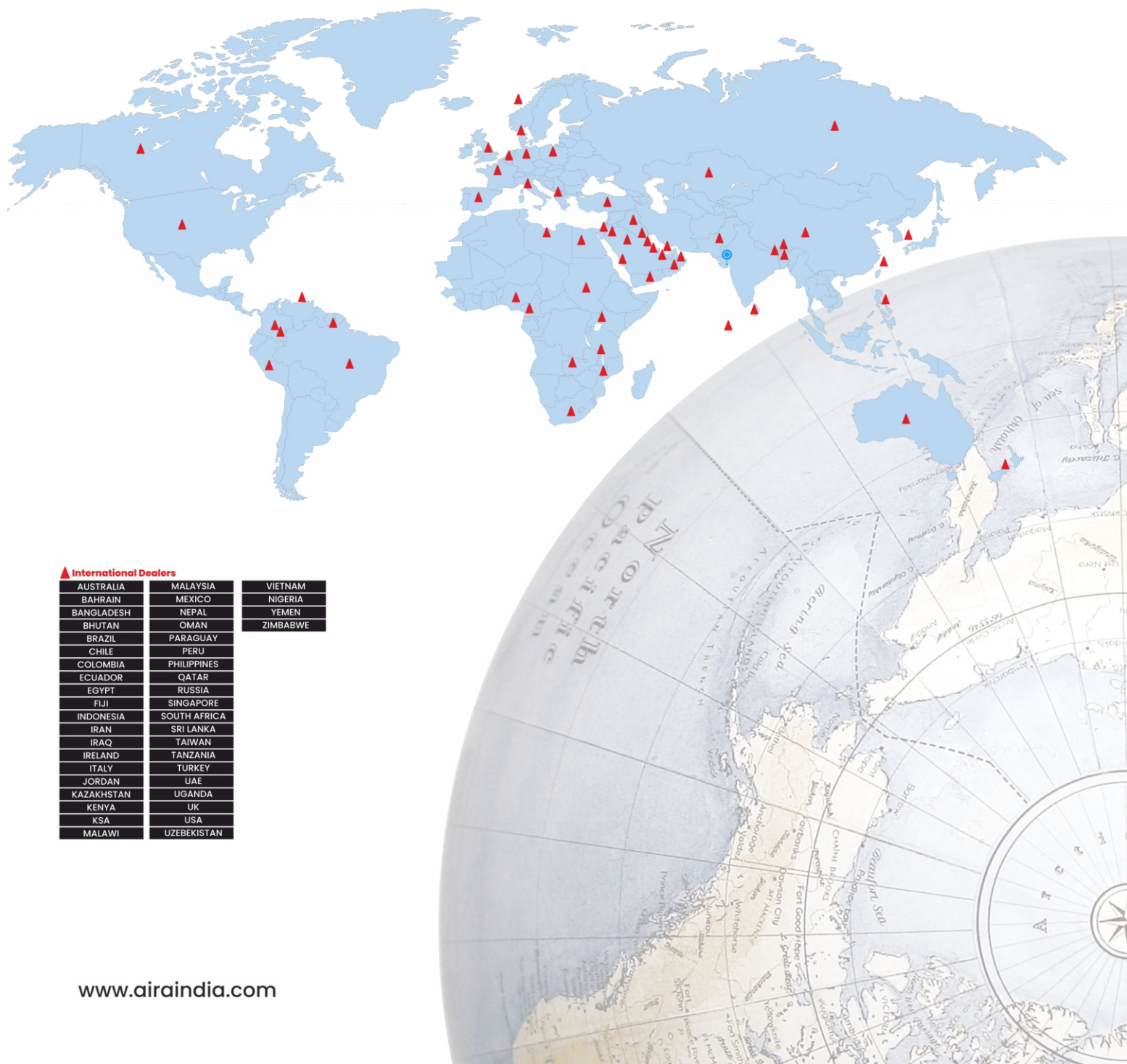
\*L FOR SCREWED  
\*L1 FOR FLANGED





*time tested designs with  
superior performance*

# GLOBAL Network



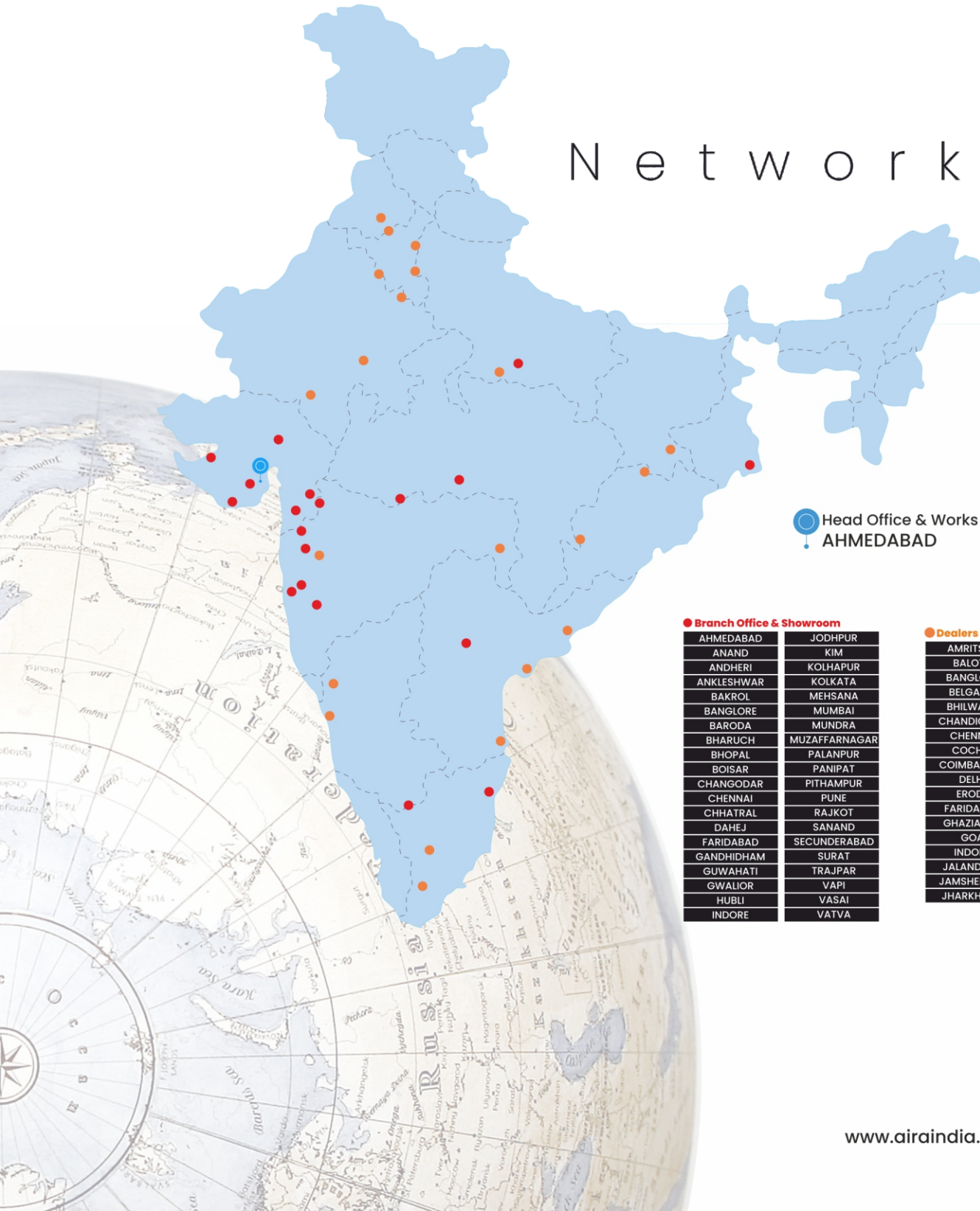
**▲ International Dealers**

AUSTRALIA	MALAYSIA	VIETNAM
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CHILE	PERU	
COLOMBIA	PHILIPPINES	
ECUADOR	QATAR	
EGYPT	RUSSIA	
FIJI	SINGAPORE	
INDONESIA	SOUTH AFRICA	
IRAN	SRI LANKA	
IRAQ	TAIWAN	
IRELAND	TANZANIA	
ITALY	TURKEY	
JORDAN	UAE	
KAZAKHSTAN	UGANDA	
KENYA	UK	
KSA	USA	
MALAWI	UZBEKISTAN	



*industrial valve automation*

# Network



Head Office & Works  
AHMEDABAD

● Branch Office & Showroom

AHMEDABAD	JODHPUR
ANAND	KIM
ANDHERI	KOLHAPUR
ANKLESHWAR	KOLKATA
BAKROL	MEHSANA
BANGLORE	MUMBAI
BARODA	MUNDRA
BHARUCH	MUZAFFARNAGAR
BHOPAL	PALANPUR
BOISAR	PANIPAT
CHANGODAR	PITHAMPUR
CHENNAI	PUNE
CHHATRAL	RAJKOT
DAHEJ	SANAND
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BHILWARA	MEERUT
CHANDIGARH	MUZAFFARNAGAR
CHENNAI	NAGPUR
COCHIN	NOIDA
COIMBATORE	PANIPAT
DELHI	PEENYA
ERODE	PUNE
FARIDABAD	TRIPUR
GHAZIABAD	VARANASI
GOA	VISAKHAPATNAM
INDORE	WADI
JALANDHAR	KANPUR
JAMSHEDPUR	KOLHAPUR
JHARKHAND	



# 3PC DESIGN METAL SEATED Ball Valve



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