



3PC DESIGN

FLANGED/SCREWED
TC END/BUTTWELD
BALL VALVE







APPROVALS

























Mfg. & Mkt by:

aira Euro automation pvt. ltd.

Ahmedabad-382405, INDIA.

www.airaindia.com





We welcome and thank you for referring out detailed catalogue.

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.

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.

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).





















CERTIFICATIONS

SIL 3 CERTIFICATIONS



SIL 3 - PNEUMATIC ROTARY ACTUATORS



SIL 3 - BUTTERFLY VALVE

CE CERTIFICATE



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) PRESSSURE REDUCING VALVE (PRV) POP TYPE SAFETY VALVE BALL VALVE

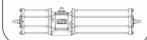
Pneumatic Actuator

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





SOME OF OUR



Plug Valve

FUGITIVE EMISSIONS

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 / **EODC IP68**



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 DESIGN EXPLODED BALL VALVE





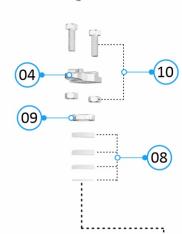


OPERATING VARIANTS:









MATERIALS:

Item No.	Item Name	Material Name				
1	Body	CF8 / CF8M / WCB				
2	Connector	CF8 / CF8M / WCB				
3	Ball	CF8 / CF8M				
4	Gland	CF8 / CF8M				
5	Stem Pin	S.S. 304 / S.S. 316				
6	Ball Seat	PTFE / CFT / GFT				
7	Body Seat	PTFE / CFT / GFT				
8	Stem Seat	PTFE / CFT / GFT				
9	Spacer Ring	S.S. 304				
10	Gland Bolt & Nut	S.S. 304				
11	Fasteners	S.S. 304				











05)





CONNECTOR Variants



























3PC DESIGN BALL VALVE FLANGE END / SCREW-END



"aira" Offers Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve Floating In Three Piece Design. Engineered For Multiple On/Off Operations In The Down Stream.

Standard

Design & Manufacturer : ASME B 16.34 / BS EN ISO 17292 Valve Face To Face Dimension : ASME B 16.10 - 150#/300#

: API 598 / ISO-5208 / BS EN 12266-1 **Inspection And Testing**

Leakage Class : ISO 5208 Class VI / B16.104,

ANSI FCI 70-2(BUBBLE TIGHT SHUTOFF)

: ISO 7-1 FOR BSPT / ASME B 1.201 FOR NPT FOR S/E End Connection

ASME B 16.5 CLASS 150/300 FOR FLANGE END

Technical Specification

Pressure : 150# & 300#

Temperature : PTFE: Upto 180°C / PEEK: 280°C

RPTFE: Upto 220°C / AIRA250

Features

- High Cycle Life.
- Antistatic Design & Fire Safe Design As Per API 607.
- Blowout Proof Stem.
- Locking Handle Available.
- ISO 5211 Mounting Pad Available.
- V-type Chevron Gland Packing, Which Leads To Zero Leak After Thousands Of Cycle.





'aira" Cavity Filed Ball Valves are the perfectly for applications in Pharma, Food or Sanitary Industry Media Residue in the empty cavity of conventional ball valves can pollute the media after sessions of inactivity. Cavity filled ball valves leave no space for media to remain in the cavity.



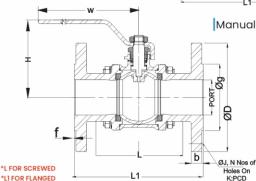
SIZE RANGE 1/4" UPTO 4" SCREWED

1/2" UPTO 14" 150# FLANGED

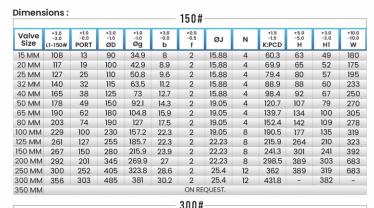
1/2" UPTO 12" 300# FLANGED

C€, SIL 3, IBR

Bare Shaft ø *Handle Type Up to 4"



	SCREWED	
Valve Size	+3.0 -3.0 L-150#	Тар
6 MM	62	1/4"
10 MM	62	3/8"
15 MM	64	1/2"
20 MM	70	3/4"
25 MM	88	1"
32 MM	105	1.1/4"
40 MM	114	1.1/2"
50 MM	130	2"
65 MM	170	2.1/2"
80 MM	200	3"
100 MM	210	4"



300#												
Valve Size	+3.0 -3.0 L1-300#	+1.0 -0.0 PORT	+2.0 -1.0 ØD	+1.0 -1.0 Øg	+3.0 -0.0 b	+0.5 -0.5 f	۵٦	N	+1.5 -1.5 K:PCD	+5.0 -5.0 H	+3.0 -3.0 H1	+10.0 -10.0 W
15 MM	140	13	95	34.9	12.7	2	15.88	4	66.7	-	-	-
20 MM	152	19	115	42.9	14.3	2	19.05	4	82.6	-	-	-
25 MM	165	25	125	50.8	15.9	2	19.05	4	88.9	-	-	-
32 MM	178	32	135	63.5	17.5	2	19.05	4	98.4	-	-	-
40 MM	190	38	155	73	19.1	2	22.23	4	114.3	113	82	270
50 MM	216	49	165	92.1	20.7	2	19.05	8	127	123	89	270
65 MM	241	62	190	104.8	23.9	2	22.23	8	149.2	153	102	310
80 MM	282	74	210	127	27	2	22.23	8	168.3	163	111	310
00 MM	305	100	255	157.2	30.2	2	22.23	8	200	184	136	310
25 MM	381	127	280	185.7	33.4	2	22.23	8	235	265	209	322
50 MM	403	150	320	215.9	35	2	22.23	12	269.9	302	241	393
MM 009	419	201	380	269.9	39.7	2	25.4	12	330.2	371	303	683
250 MM	457	252	455	323.8	46.1	2	28.58	12	387.4	-	385	-
00 MM	648	303	520	381	49.3	2	31.75	12	450.8	-	382	-
									*	All Dime	nsions A	re In MN























3PC DESIGN BUTTWELD END FLOATING BALL VALVE



"aira" Offers Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve Floating In Three Piece Design. Engineered For Multiple On/Off Operations In The Down Stream.

Standard

Design & Manufacturer : ASME B 16.34 / BS EN ISO 17292
 Valve Face To Face Dimension : As Per Manufacturing Std.

■ Inspection And Testing : API 598 / ISO-5208 / BS EN 12266-1

Leakage Class : ISO 5208 Class VI / B16.104 ,

ANSI FCI 70-2(BUBBLE TIGHT SHUTOFF)

■ End Connection : Butt-Weld Ends

Technical Specification

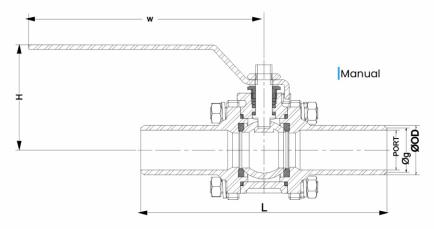
■ Pressure : 150#

■ Temperature : PTFE : Upto 180°C / PEEK : 280°C

RPTFE: Upto 220°C / AIRA250

Features

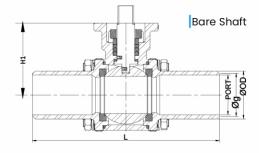
- High Cycle Life.
- Antistatic Design & Fire Safe Design As Per API 607.
- Blowout Proof Stem.
- Locking Handle Available.
- ISO 5211 Mounting Pad Available.
- V-type Chevron Gland Packing, Which Leads To Zero Leak After Thousands Of Cycle.







[CE, SIL 3]



Dimensions:

Valve Size	+2.0 -2.0 L-150#	+0.0 -0.25 PORT	Øg	+0.0 -0.8 ØOD	+5.0 -5.0 H	+3.0 -3.0 H1	+10.0 -10.0 W		
15 MM	140	15.8	19	21.33	65	47	150		
20 MM	152	19.6	22.8	26.67	74	57	163		
25 MM	165	26.6	29.8	33.27	80	57	163		
32 MM	178	35	38.2	42.1	84	61	163		
40 MM	190	40.5	43.7	48.51	105	73	235		
50 MM	216	52.4	55.6	60.45	107	79	235		
65 MM	241	62	65.2	73	142	101	270		
80 MM	282	77.9	81.1	88.9	150	108	270		
100 MM	325	98	105.5	114.3	189	130	319		
*All Dimensions Are In MM									





















3PC TRI-CLOVER END FLOATING BALL VALVE



"aira" Offers Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve Floating In Three Piece Design. Engineered For Multiple On/Off Operations In The Down Stream.

SIZE RANGE 1/4" UPTO 4" TRICLOVER ENDS

Standard

: ASME B 16.34 / BS EN ISO 17292 Design & Manufacturer

Valve Face To Face Dimension : As Per Manufacturing Std.

: API 598 / ISO-5208 / BS EN 12266-1 **Inspection And Testing**

Leakage Class : ISO 5208 Class VI / B16.104,

ANSI FCI 70-2(BUBBLE TIGHT SHUTOFF)

End Connection : Tri-Clover Ends

Technical Specification

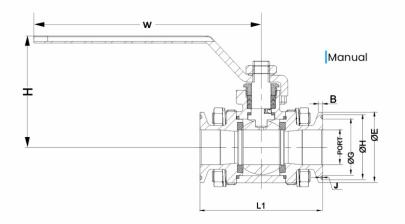
Pressure : Upto 6 BAR

■ Temperature : PTFE : Upto 180°C / PEEK : 280°C

RPTFE: Upto 220°C / AIRA250

Features

- High Cycle Life.
- Antistatic Design & Fire Safe Design As Per API 607.
- Blowout Proof Stem.
- Locking Handle Available.
- ISO 5211 Mounting Pad Available.
- V-type Chevron Gland Packing, Which Leads To Zero Leak After Thousands Of Cycle.

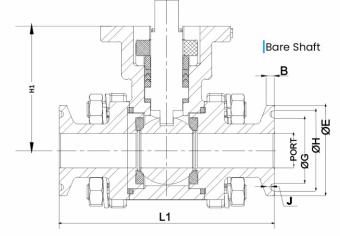


Cavity Filled Ball Valve Details



applications in Pharma, Food or Sanitary Industry. Media Residue in the empty cavity of conventional ball valves can pollute the media after sessions of inactivity. Cavity filled ball valves leave no space for media to remain in the cavity.





Dimensions:

Valve Size	L1-150#	PORT	ØG	ØН	ØE	В	J	+5.0 -5.0 H	+3.0 -3.0 H1	+10.0 -10.0 W	
6 MM	ON REQUEST.										
10 MM	81	9.5	17.05	22.95	25	2.85	1.6	43	43	94	
15 MM	81	13	24.55	30.45	34	2.85	1.6	65	47	150	
15 MM	81	13	40.55	46.45	50.5	2.85	1.6	65	47	150	
20 MM	81	19	40.5	46.45	50.5	2.85	1.6	74	57	163	
20 MM	86.01	19	24.55	30.45	34	2.85	1.6	74	57	163	
25 MM	88	25	40.55	46.45	50.5	2.85	1.6	80	57	163	
32 MM	106	32	40.55	46.45	50.5	2.85	1.6	84	61	163	
40 MM	106	32	40.55	46.45	50.5	2.85	1.6	105	73	235	
50 MM	134	42.5	53.55	59.45	64	2.85	1.6	107	79	235	
65 MM	187	62	80.55	86.45	91	2.85	1.6	142	101	270	
80 MM	187	74	94.05	99.95	106	2.85	1.6	150	108	270	
100 MM	242	100	107.05	112.95	119	2.85	1.6	189	130	319	
	*All Dimensions Are In MM										



















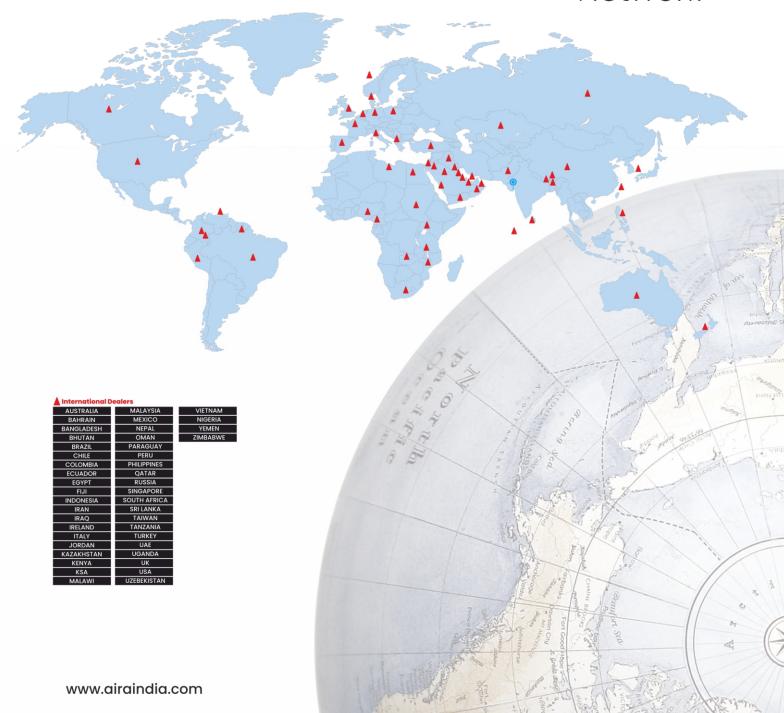






time tested designs with superior performance

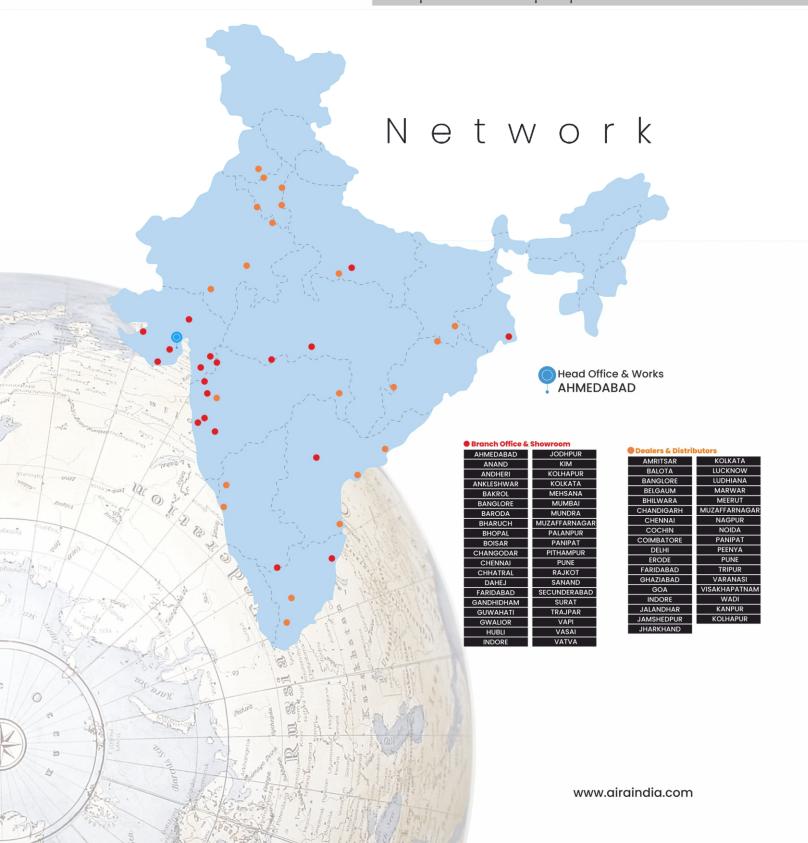
GLOBAL Network







industrial value automation







3PC DESIGN

Ball Valve





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Ahmedabad-382405, INDIA.

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