

mfg. & Mkt by :
aira Euroautomation pvt. Itd.
INDIA



About Us



Aira Euro Automation Pvt. Ltd. headquartered in Ahmedabad, Gujarat, India accredited with ISO 9001, from BVQI – LONDON is one of the leading manufacturer and exporter of automation and manual valves in the small sector in India having over 25-years of experience maintains one of the largest and most diversified markets of valves globally. We export our product in more than 20+ countries and have received excellent feedbacks.

We manufacture pneumatic actuator operated valves, automation valves. Pneumatic actuator operated valves can easily tolerate heavy loads, and are easily available and inexpensive too. Our products meet a wide range of users from different fields in fossil & cogeneration power, nuclear, refining, petrochemicals, pulp & paper, LNG & cryogenics, pharma industry.

We are continuously enhancing the ability of our staff and workers to become "customers preferred company." The

motto of our organization is to become a "One - stop shop" for our clients and customers. For this, we have fully

dedicated staff in each field.

Our management and employees are more passionate about manufacturing quality products and are always starving to improve and to meet the expectations and desires of our clients and customers in the guidance of dedicated and experienced management.

For further clarification of our products & services, Please feel free to contact us.







ISO Certification









Atex Certificate for Micro Limit Switch



API Certificate for Ball Valve

Atex Certificate for Solenoid Coil



API Certificate for Butterfly Valve

Approval



Approval

TDS, SGS, MECON, LLOYDS, PDIL, RITES, ONGC, BVIS, UHDE, BHEL, NPCIL, BARC, SAIL, Indian Navy & many more. We have always kept our Design & Development Department on their toes, Even when a product has been positively accepted in the market, We have made changes for the better instead of resting on our laurels. Also we have full fledged in house flow testing facility.

Organisation Belief

"Customer Is The Top Priority"
Continuous job training to it's
employees and human resource
development strengths have given a
loyal, trained workforce with great
motivation. We have a network of
service and sales operations by
qualified engineers and marketing
personnel, by which the nationwide
requirements are being fulfilled.

Reputation

Client's satisfaction with quality, fast action, rates, pre and post sales services.

Aim

To provide the most economic and quality product under the latest international manufacturing standards.







CE Actuator

CE Ball Valve

CE Ball Valve







Place Them Basics, Name of whom A source for them. The control of the control of

CE Micro Limit Switch

CE Solenoid Coil & Positioner

IBR Certificate

Approval













CCEO Solenoid Coil

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Jacketed Ball Valve Pattern Registered



DGMS Certificate



Company Profile





















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Torque & Cv Value

Torque \	/alues					
BRE	BREAK AWAY TORQUE NM					
Valv	e Size	150# & 300#				
MM	Inch	130# & 300#				
15	1/2"	18				
20	3/4"	18				
25	1"	36				
32	1.1/4"	46				
40	1.1/2"	55				
50	2"	114				
65	2.1/2"	131				
80	3"	162				
100	4"	221				
125	5"	295				
150	6"	450				
200	8"	750				
250	10"	1400				
300	12"	1900				

ACTUATOR SELECTION MULTIPLY THE ABOVE VALUES BY THE FOLLOWING FACTORS (F) TO GET THE ACTUATOR TORQUE.

SERVICE	FACTOR 'F
RAW WATER	1.35
WET SERVICE	1.35
STEAM	1.25
GAS	1.40
SLURRY	1.80
VISCOUS LIQUID	2.00

Notes:

- 1 For GFT, CFT, GRFT & SS Filled PTFE Seats Multiply The Above Values By 1.2
- 2 For Torque of lined valves please contact marketing person.

Flow Co - Efficients

Valve	Size	Plug Valve Cv
MM	Inch	riug valve Cv
15	1/2"	9
20	3/4"	14
25	1"	44
32	1.1/4"	66
40	1.1/2"	92
50	2"	175
65	2.1/2"	245
80	3"	290
100	4"	545
125	5"	650
150	6"	1070
200	8"	1580
250	10"	2165
300	12"	3159

Flow Coefficient (Cv) is a basic industry wide standard which is defined as "The rate of flow of water in US gallon's per minute that will generate a pressure drop of one pound per square inch across the valve".

$$Cv = \frac{Q}{\sqrt{\frac{\triangle P}{SG}}}$$

WHERE,

Q = FLOW RATE IN US gal / min

SG = SPECIFIC GRAVITY OF LIQUID (WATER =1)

 $\triangle P$ = PRESSURE DROP ACROSS THE VALVE, PSI

Ky = Cv / 1.17



Testing and Test Duration

Pressure Test Chart

	Test Pressure & Duration As Per API 598					
Pressure	Hydro Test Pressure		Test Duration In Seconds			
Rating	Body	Seat	Body		Seat	Back Seat
Nating	(Kg/cm ²)	(Kg/cm ²)	Valve Size	(Minutes-Seconds)	(Minutes-Seconds)	(Minutes-Seconds)
150#	30	22	2" & Smaller	0.25 - 15	0.25 - 15	0.25 - 15
300#	80	58	2.1/2" to 6"	1 - 60	1 - 60	1 - 60
600#	155	115	8" to 12"	2 - 120	2 - 120	1 - 60
800#	211	151	14" & Larger	5 - 300	2 - 120	1 - 60
900#	233	170				
1500#	393	286	Pneu	Pneumatic (Air) Testing Only For Seat 7 Kg/cm ²		
2500#	653	478				

	Test Pressure & Duration As Per BS EN 12266-1					
PN 10	15	11	Test Duration In Seconds			
PN 16	24	18	Valve Size	Body (Minutes-Seconds)	Seat (Minutes-Seconds)	
PN 25	40	28	2" & Smaller	0.25 - 15	0.25 - 15	
PN 40	60	45	2.1/2" to 6"	1 - 60	1 - 60	
PN 64	100	71	8" to 12"	2 - 120	2 - 120	
FIN 04	100	71	14" & Larger	5 - 30	2 - 120	





Plug Valve Features

GENERAL

"aira" Non lubricated Sleeved & Lined Plug Valve are designed In accordance with API 599 for ANSI Class Ratings 150 & 300. Nominal sizes from 1/2" to 12" Valves Have been design for use with various combinations of material Such as: Carbon Steel, Low Carbon Steel, Special Alloy, Stainless Steel, Monel, Inconel.

2 Way and Multiport Plug Valves are available for variety of applications.

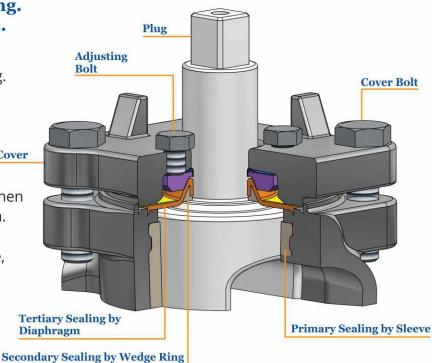
Construction & Working

Basic structure is plug, sleeve, body. Sleeve is inserted inside the body. Tapered plug is inserted into the sleeve. The sleeve acting as a soft seat completely surrounds plug creating areal sealing surfaces. Also not permitting any dead space in the flow path. Plug is rotating 90 degree. When it is aligned with the body port, flow is open. When the plug is rotated so that plug port is perpendicular to the body port the flow is blocked. The media kept in the plug while at closed position, will be contained in the plug port only, and when the valve is open again, the flow will flush the media out.

Unmatched Superior Sealing. Bi-directional Zero leakage.

Primary sealing by PTFE sleeve with high pressure ribs for In-line sealing. Second by wedge ring. Independent Tertiary sealing by diaphragm. Leaving absolutely no chance for atmospheric leakage.

This gives highest level of sealing when compared to any other valve design. (When compared with conventional ball valve, butterfly valve, gate valve, globe valve designs)





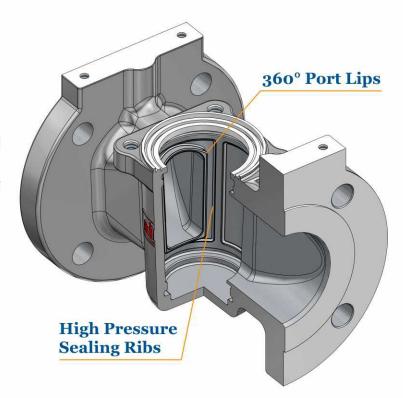
Plug Valve Features

Inherently Cavity Free.

No dead space. No fluid accumulation. No contamination. No sticking of media on plug.

360° port lips.

360° port lips provide a self-cleaning action to remove scaling and adhering media. PTFE even through high grade plastic which is vulnerable to cold flow (permanent deformation) when subjected to varying loads and temperature. In a plug valve the 360° port acts along with upper and lower boundary restrict the sleeve preventing cold flow.



Less Joints. Less Problems.

Single piece body, tapered plug, cover. Improved monolithic compact design ensures lower costs and better performance.

No maintenance.

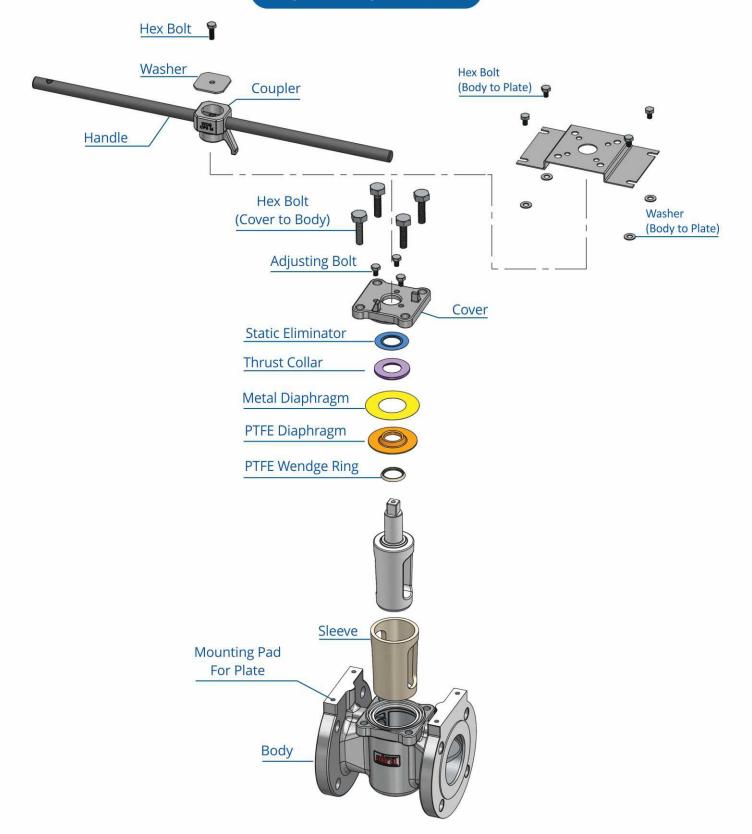
In case of PTFE sleeve wear from usage, a slight turn of adjusting bolt presses the plug down regaining sealing pressure making valve as good as new.

No lubrication in needed even after long period of inactivity, thanks to low co-efficient of

No lubrication in needed even after long period of inactivity, thanks to low co-efficient of friction of PTFE sleeves and smooth finished surface of plug. And even in case of regular maintenance plug valves are top entry valves, hence, need not be removed from the line and can be easily serviced.



Plug Valve Exploded View





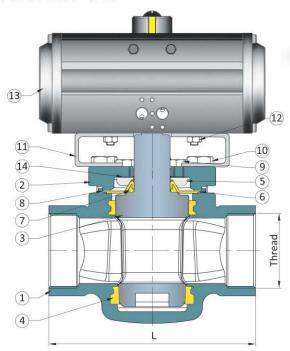
"GLO" Series 2 Way Plug Valve Screwed (BSP / NPT)

aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the aira plug valves a preferred choice in severe service conditions.

Size Range : 1/2" to 2" (15 MM to 50 MM) Standard

Design And Manufacturer : API 599 / BS 5353
Valve Face To Face Dimension : As Per Mfg Std.
Thread End Standard Conformity : ASME B 1.20.1

Inspection & Testing : API 598 / EN 12266 - 1 Leakage Class : CLASS VI ISO - 5208



150# Dimensions :

Valve	Valv	e Size	L	Weight
Model	MM	Inch	Screwed	Approx.
GLE - 15	15	1/2"	82.5	1.100
GLE - 20	20	3/4"	82.5	1.100
GLE - 25	25	1"	118	2.250
GLE - 32	32	1.1/4"	118	2.520
GLE - 40	40	1.1/2"	140	3.500
GLE - 50	50	2"	165	6.150

(All Dimensions mm & Weight are for bare shaft only)

Sr. No.	Description	Material
01	Body	WCB / CF8 / CF8M / CF3M / CD4MCU
02	Cover	WCB / CF8 / CF8M / CF3M / CD4MCU
03	Plug	CF8 / CF8M / CF3M / CD4MCU
04	Plug Sleeve	PTFE / CFT / GFT
05	Thrust Collar	S.S.304
06	PTFE Diaphragm	PTFE / CFT / GFT
07	PTFE Wedge Ring	PTFE / CFT / GFT
80	Metal Diaphragm	S.S. 304
09	Adjusting Hex Bolt	S.S. 304
10	Body Fitting Hex Bolt	S.S. 304
11	Act. Fitting Plate	S.S. 304
12	Act. Plate Fitting Hex Bolt	S.S. 304
13	Actuator	STD.
14	Static Eliminator	S.S. 304

Note: Special Metal & Higher Alloys available on request.





"GLO" Series 2 Way Plug Valve Flanged 150# & 300#

aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the aira plug valves a preferred choice in severe service conditions.

Size Range : 1/2" to 12" (15 MM to 300 MM) 150# & 300# Standard

Design And Manufacturer : API 599 / BS 5353 Valve Face To Face Dimension : ASME B 16.10

Flange Standard Conformity : ASME B 16.5 Class 150# / 300#

Inspection & Testing : API 598 / EN 12266 - 1 Leakage Class : CLASS VI ISO - 5208

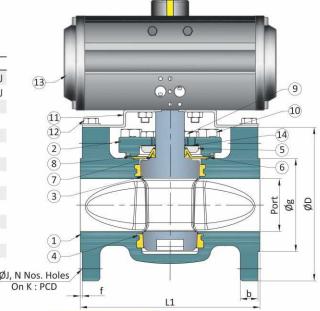
Sr. No.	Description	Material
01	Body	WCB / CF8 / CF8M / CF3M / CD4MCU
02	Cover	WCB / CF8 / CF8M / CF3M / CD4MCU
03	Plug	CF8 / CF8M / CF3M / CD4MCU
04	Plug Sleeve	PTFE / CFT / GFT
05	Thrust Collar	S.S.304
06	PTFE Diaphragm	PTFE / CFT / GFT
07	PTFE Wedge Ring	PTFE / CFT / GFT
08	Metal Diaphragm	S.S. 304
09	Adjusting Hex Bolt	S.S. 304
10	Body Fitting Hex Bolt	S.S. 304
11	Act. Fitting Plate	S.S. 304
12	Act. Plate Fitting Hex Bolt	S.S. 304
13	Actuator	STD.
14	Static Eliminator	S.S. 304
	Moto Charial Motal 9 High	aar Allays available on request

Note: Special Metal & Higher Alloys available on request.

150# Dimensions :

Valve	Valve	e Size	L1	Weight
Model	MM	Inch	150#	Approx.
GLM - 15	15	1/2"	108	2.200
GLM - 20	20	3/4"	117	2.405
GLM - 25	25	1"	127	3.950
GLM - 32	32	1.1/4"	140	4.400
GLM - 40	40	1.1/2"	165	6.500
GLM - 50	50	2"	178	10.500
GLM - 65	65	2.1/2"	190	14.400
GLM - 80	80	3"	203	16.750
GLM - 100	100	4"	229	25.050
GLM - 125	125	5"	254	31.200
GLM - 150	150	6"	267	43.000
GLM - 200	200	8"	292	76.000
GLM - 250	250	10"	330	112.00
GLM - 300	300	12"	356	168.20

(All Dimensions mm & Weight are for bare shaft only)



300# Dimensions:

Valve	Valv	e Size	L1	Weight
Model	MM	Inch	300#	Approx.
GLN - 15	15	1/2"	140	2.450
GLN - 20	20	3/4"	152	3.400
GLN - 25	25	1"	165	5.450
GLN - 32	32	1.1/4"	178	6.300
GLN - 40	40	1.1/2"	190	9.000
GLN - 50	50	2"	216	12.600
GLN - 65	65	2.1/2"	241	16.700
GLN - 80	80	3"	282	21.600
GLN - 100	100	4"	305	35.600
GLN - 125	125	5"	381	48.200
GLN - 150	150	6"	403	68.000
GLN - 200	200	8"	419	107.80
GLN - 250	250	10"	457	164.00
GLN - 300	300	12"	502	241.00
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Note: Please refer page no.: 14 for Flange Dimensions.



"GLO" Series 2 Way Plug Valve Flanged 150# & 300# JACKETED

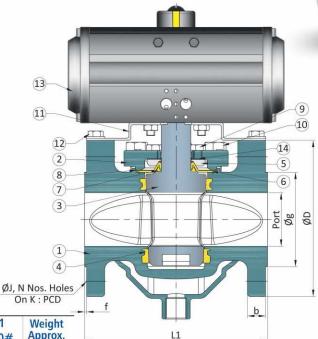
aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the **aira** plug valves a preferred choice in severe service conditions.

Size Range : 1/2" to 12" (15~MM to 300 MM) 150# / 300# Standard

Design And Manufacturer : API 599 / BS 5353 Valve Face To Face Dimension : ASME B 16.10

Flange Standard Conformity : ASME B 16.5 Class 150# / 300#

Inspection & Testing : API 598 / EN 12266 - 1 Leakage Class : CLASS VI ISO - 5208



150# Dimensions :	50	# D	ime	nsid	ons:
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Contraction of the Contraction o	SECTION AND PROPERTY.			
Valve Model		Size	L1 150#	Weight Approx.
Model	MM	Inch	130#	Approx.
GJM - 15	15	1/2"	108	2.580
GJM - 20	20	3/4"	117	2.780
GJM - 25	25	1"	127	4.650
GJM - 32	32	1.1/4"	140	5.250
GJM - 40	40	1.1/2"	165	7.400
GJM - 50	50	2"	178	11.750
GJM - 65	65	2.1/2"	190	16.000
GJM - 80	80	3"	203	18.850
GJM - 100	100	4"	229	28.300
GJM - 125	125	5"	254	36.500
GJM - 150	150	6"	267	49.000
GJM - 200	200	8"	292	88.000
GJM - 250	250	10"	330	152.500
GJM - 300	300	12"	356	182.000

(All Dimensions mm & Weight are for bare shaft only)

Note: Please refer page no.: 14 for Flange Dimensions.

Sr. No.	Description	Material
01	Jacketed Body	WCB / CF8 / CF8M / CF3M / CD4MCU
02	Cover	WCB / CF8 / CF8M / CF3M / CD4MCU
03	Plug	CF8 / CF8M / CF3M / CD4MCU
04	Plug Sleeve	PTFE / CFT / GFT
05	Thrust Collar	S.S.304
06	PTFE Diaphragm	PTFE / CFT / GFT
07	PTFE Wedge Ring	PTFE / CFT / GFT
80	Metal Diaphragm	S.S. 304
09	Adjusting Hex Bolt	S.S. 304
10	Body Fitting Hex Bolt	S.S. 304
11	Act. Fitting Plate	S.S. 304
12	Act. Plate Fitting Hex Bolt	S.S. 304
13	Actuator	STD.
14	Static Eliminator	S.S. 304

Note: Special Metal & Higher Alloys available on request.



"GLO" Series 2 Way Plug Valve Screwed (BSP / NPT)

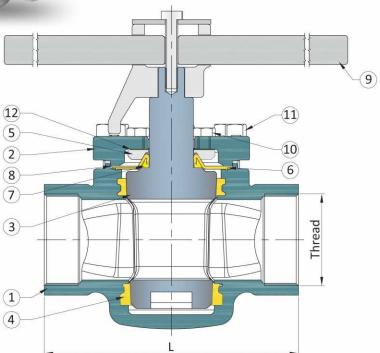


aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the aira plug valves a preferred choice in severe service conditions.

Size Range: 1/2" to 2" (15 MM to 50 MM) Standard

Design And Manufacturer : API 599 / BS 5353
Valve Face To Face Dimension : As Per Mfg Std.
Thread End Standard Conformity : ASME B 1.20.1

Inspection & Testing : API 598 / EN 12266 - 1 Leakage Class : CLASS VI ISO - 5208



150# Dimensions :

130# Dillic					
Valve	Valv	e Size	L	Weight	
Model	MM	Inch	Screwed	Approx.	
GLS - 15	15	1/2"	82.5	1.100	
GLS - 20	20	3/4"	82.5	1.100	
GLS - 25	25	1"	118	2.250	
GLS - 32	32	1.1/4"	118	2.520	
GLS - 40	40	1.1/2"	140	3.500	
GLS - 50	50	2"	165	6.150	
013 - 30	50	2	103	0.	

(All Dimensions mm & Weight are for bare shaft only)

Sr. No.	Description	Material
01	Body	WCB / CF8 / CF8M / CF3M / CD4MCU
02	Cover	WCB / CF8 / CF8M / CF3M / CD4MCU
03	Plug	CF8 / CF8M / CF3M / CD4MCU
04	Plug Sleeve	PTFE / CFT / GFT
05	Thrust Collar	S.S. 304
06	PTFE Diaphragm	PTFE / CFT / GFT
07	PTFE Wedge Ring	PTFE / CFT / GFT
08	Metal Diaphragm	S.S. 304
09	Handle Rod	S.S. 304
10	Adjusting Hex Bolt	S.S. 304
11	Body Fitting Hex Bolt	S.S. 304
12	Static Eliminator	S.S. 304

Note: Special Metal & Higher Alloys available on request.



"GLO" Series 2 Way Plug Valve Flanged 150# & 300#

aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the aira plug valves a preferred choice in severe service conditions.

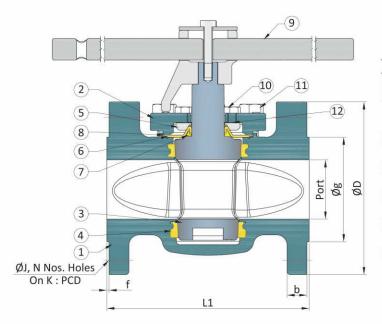
Size Range: 1/2" to 6" (15 MM to 150 MM) 150# & 300# Standard

Design And Manufacturer : API 599 / BS 5353 Valve Face To Face Dimension : ASME B 16.10

Flange Standard Conformity : ASME B 16.5 Class 150# / 300#

Inspection & Testing : API 598 / EN 12266 - 1 Leakage Class : CLASS VI ISO - 5208





Sr. No.	Description	Material			
01	Body	WCB / CF8 / CF8M / CF3M / CD4MCU			
02	Cover	WCB / CF8 / CF8M / CF3M / CD4MCU			
03	Plug	CF8 / CF8M / CF3M / CD4MCU			
04	Plug Sleeve	PTFE / CFT / GFT			
05	Thrust Collar	S.S. 304			
06	PTFE Diaphragm	PTFE / CFT / GFT			
07	PTFE Wedge Ring	PTFE / CFT / GFT			
08	Metal Diaphragm	S.S. 304			
09	Handle Rod	S.S. 302			
10	Adjusting Hex Bolt	S.S. 304			
11	Body Fitting Hex Bolt	S.S. 304			
12	Static Eliminator	S.S. 304			

Note: Special Metal & Higher Alloys available on request.

Model	MM	Inch	150#	Approx.
GLK - 15	15	1/2"	108	2.050
GLK - 20	20	3/4"	117	2.450
GLK - 25	25	1"	127	4.250
GLK - 32	32	1.1/4"	140	4.700
GLK - 40	40	1.1/2"	165	7.000
GLK - 50	50	2"	178	11.500
GLK - 65	65	2.1/2"	190	15.400
GLK - 80	80	3"	203	18.000
GLK - 100	100	4"	229	27.600

Valve Size

150# Dimensions:

Valve

GLK - 125

GLK - 150

6" (All Dimensions mm & Weight are for bare shaft only)

125

150

Note: Please refer page no.: 14 for Flange Dimensions.

5"

254

267

34.700

46.400

300# Dimensions :						
Valve	STATE OF THE PERSON NAMED IN	e Size	L1	Weight		
Model	MM	Inch	300#	Approx.		
GLL - 15	15	1/2"	140	2.500		
GLL - 20	20	3/4"	152	3.500		
GLL - 25	25	1"	165	5.150		
GLL - 32	32	1.1/4"	178	6.600		
GLL - 40	40	1.1/2"	190	9.700		
GLL - 50	50	2"	216	13.700		
GLL - 65	65	2.1/2"	241	18.000		
GLL - 80	80	3"	282	23.000		

6" (All Dimensions mm & Weight are for bare shaft only)

100

125

150

GLL - 100

GLL - 125

GLL - 150

Note: Please refer page no.: 14 for Flange Dimensions.

5"

305

381

403

37.800

51.800

70.500





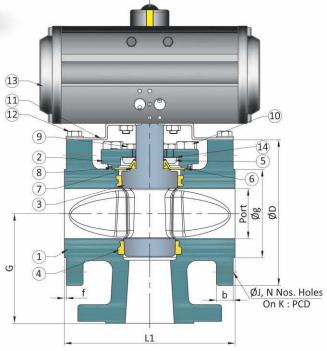
"GLO" Series 3 Way Plug Valve Flanged 150#

aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the aira plug valves a preferred choice in severe service conditions.

Size Range : 1/2" to 6" (15 MM to 150 MM) 150# Standard

Design And Manufacturer : API 599 / BS 5353 Valve Face To Face Dimension : ASME B 16.10

Flange Standard Conformity : ASME B 16.5 Class 150#
Inspection & Testing : API 598 / EN 12266 - 1
Leakage Class : CLASS VI ISO - 5208



Sr. No.	Description	Material
01	Body	WCB CF8 / CF8M / CF3M / CD4MCU
02	Cover	WCB CF8 / CF8M / CF3M / CD4MCU
03	Plug	CF8 / CF8M / CF3M / CD4MCU
04	Plug Sleeve	PTFE / CFT / GFT
05	Thrust Collar	S.S. 304
06	PTFE Diaphragm	PTFE / CFT / GFT
07	PTFE Wedge Ring	PTFE / CFT / GFT
80	Metal Diaphragm	S.S. 304
09	Adjusting Hex Bolt	S.S. 304
10	Body Fitting Hex Bolt	S.S. 304
11	Act. Fitting Plate	S.S. 304
12	Act. Plate Fitting Hex Bolt	S.S. 304
13	Actuator	STD.
14	Static Eliminator	S.S. 304

Note: S	pecial Metal	& Higher Alloy	s available on r	equest.

	2000		-					
150	#	n	ım	er	121	or	15	
	ALUE:	-	-			•		Q

Valve	Valv	e Size	L1	G	Weight
Model	MM	Inch	150#	G	Approx.
3GLO - 15	15	1/2"	108	70	2.500
3GLO - 20	20	3/4"	117	73	3.100
3GLO - 25	25	1"	127	89	4.900
3GLO - 32	32	1.1/4"	140	95	5.700
3GLO - 40	40	1.1/2"	165	105	7.700
3GLO - 50	50	2"	178	114.5	12.300
3GLO - 65	65	2.1/2"	190	130.25	17.800
3GLO - 80	80	3"	203	130.25	20.300
3GLO - 100	100	4"	229	152.5	30.800
3GLO - 150	150	6"	267	190.5	56.000
			1 100	10 200	

(All Dimensions mm & Weight are for bare shaft only)
Note: Please refer page no.: 14 for Flange Dimensions.



"GLO" Series 3 Way Plug Valve Flanged 150#

aira Plug valves are designed to offer superior performance in various industrial applications. Design inherent reduction in pressure drop leads to higher efficiency and better flow rates. Long service life, unmatched sealing capacity and ease of maintenance thanks to ingenious design make the **aira** plug valves a preferred choice in severe service conditions.

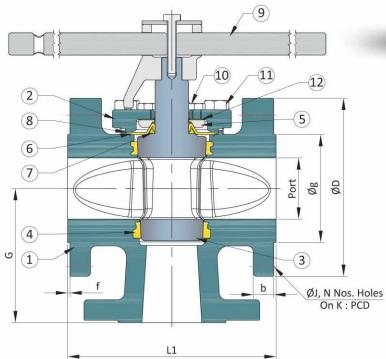
Size Range : 1/2" to 6" (15 MM to 150 MM) 150# Standard

Design And Manufacturer : API 599 / BS 5353 Valve Face To Face Dimension : ASME B 16.10

Flange Standard Conformity : ASME B 16.5 Class 150# / 300#

Inspection & Testing : API 598 / EN 12266 - 1 Leakage Class : CLASS VI ISO - 5208





150# Dimensions:

Valv	e Size	L1	G	Weight
MM	Inch	150#	U	Approx.
15	1/2"	108	70	2.630
20	3/4"	117	73	3.150
25	1"	127	89	5.150
32	1.1/4"	140	95	5.900
40	1.1/2"	165	105	8.400
50	2"	178	114.5	13.700
65	2.1/2"	190	130.25	19.200
80	3"	203	130.25	21.500
100	4"	229	152.5	33.350
150	6"	267	190.5	60.800
	MM 15 20 25 32 40 50 65 80 100	15 1/2" 20 3/4" 25 1" 32 1.1/4" 40 1.1/2" 50 2" 65 2.1/2" 80 3" 100 4"	MM Inch 150# 15 1/2" 108 20 3/4" 117 25 1" 127 32 1.1/4" 140 40 1.1/2" 165 50 2" 178 65 2.1/2" 190 80 3" 203 100 4" 229	MM Inch 150# G 15 1/2" 108 70 20 3/4" 117 73 25 1" 127 89 32 1.1/4" 140 95 40 1.1/2" 165 105 50 2" 178 114.5 65 2.1/2" 190 130.25 80 3" 203 130.25 100 4" 229 152.5

(All Dimensions mm & Weight are for bare shaft only) Note: Please refer page no.: 14 for Flange Dimensions.

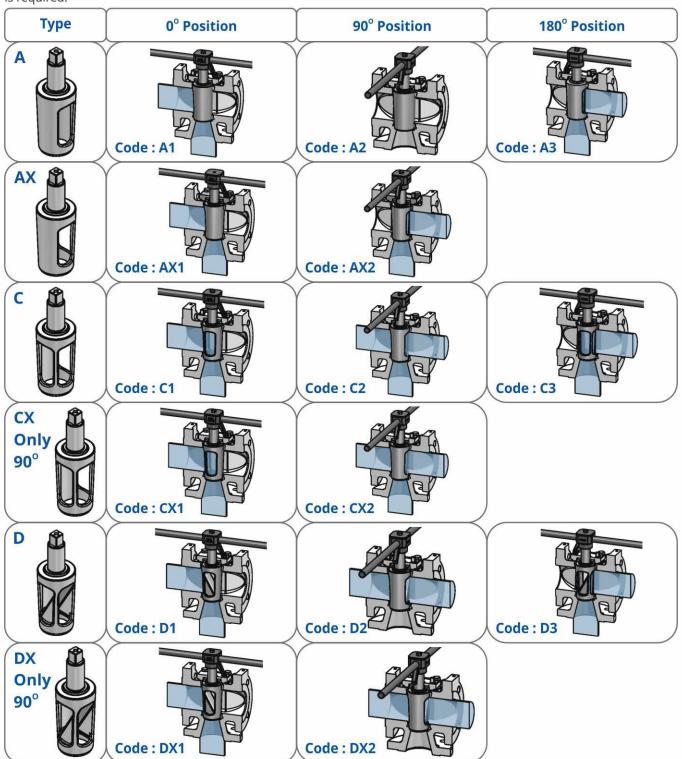
Sr. No.	Description	Material
01	Body	WCB / CF8 / CF8M / CF3M / CD4MCU
02	Cover	WCB / CF8 / CF8M / CF3M / CD4MCU
03	Plug	CF8 / CF8M / CF3M / CD4MCU
04	Plig Sleeve	PTFE / CFT / GFT
05	Thrust Collar	S.S. 304
06	PTFE Diaphragm	PTFE / CFT / GFT
07	PTFE Wedge Ring	PTFE / CFT / GFT
08	Metal Diaphragm	S.S. 304
09	Handle Rod	S.S. 304
10	Adjusting Hex Bolt	S.S. 304
11	Body Fitting Hex Bolt	S.S. 304
12	Static Eliminator	S.S. 304

Note: Special Metal & Higher Alloys available on request.



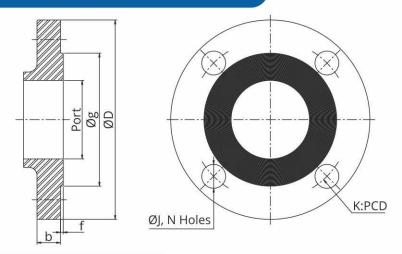
Multiport Valves

The versatility of 3GLO multiport valves and the variety of flow arrangements in which they are available make these valves ideal for many types of piping systems handling liquids, gases, slurries or other applications where tight shut - off is required.





Plug Valves Flanged Standard Dimensions Table



As Per ASME B16.5 150# Dimensions Table

	SIVIL DIO.S	130# 1		Idole							
Valve	e Size	Dort	L1	ØD	Øg	b	£	ØJ	N	PCD	
MM	Inch	Port	FUIL		טט	by	D		LON.	IV	PCD
15	1/2"	13	108	90	34.9	9.6	2	15.9	4	60.3	
20	3/4"	19	117	100	42.9	11.2	2	15.9	4	69.9	
25	1"	25	127	110	50.8	12.7	2	15.9	4	79.4	
32	1.1/4"	32	140	115	63.5	14.3	2	15.9	4	88.9	
40	1.1/2"	38	165	125	73	15.9	2	15.9	4	98.4	
50	2"	49	178	150	92.1	17.5	2	19.05	4	120.7	
65	2.1/2"	62	190	180	104.8	20.7	2	19.05	4	139.7	
80	3"	74	203	190	127	22.3	2	19.05	4	152.4	
100	4"	100	229	230	157.2	22.3	2	19.05	8	190.5	
125	5"	125	254	255	185.7	22.3	2	22.2	8	215.9	
150	6"	150	267	280	215.9	23.9	2	22.2	8	241.3	
200	8"	201	292	345	269.9	27	2	22.2	8	298.5	
250	10"	252	330	405	323.8	28.6	2	25.4	12	362	
300	12"	303	610	485	381	30.2	2	25.4	12	431.8	

As Per ASME B16.5 300# Dimensions Table

				- C - C - C - C - C - C - C - C - C - C						
Valve MM	e Size Inch	Port	L1	ØD	Øg	b	f	ØJ	N	PCD
15	1/2"	13	140	95	34.9	12.7	2	15.9	4	66.7
20	3/4"	19	152	115	42.9	14.3	2	19.05	4	82.6
25	1"	25	165	125	50.8	15.9	2	19.05	4	88.9
32	1.1/4"	32	178	135	63.5	17.5	2	19.05	4	98.4
40	1.1/2"	38	190	155	73	19.1	2	22.2	4	114.3
50	2"	49	216	165	92.1	20.7	2	19.05	8	127
65	2.1/2"	62	241	190	104.8	23.9	2	22.2	8	149.2
80	3"	74	282	210	127	27	2	22.2	8	168.3
100	4"	100	305	255	157.2	30.2	2	22.2	8	200
125	5"	125	381	280	185.7	33.4	2	22.2	8	235
150	6"	150	403	320	215.9	35	2	22.2	12	269.9
200	8"	201	419	380	269.9	39.7	2	25.4	12	330.2
250	10"	252	457	445	323.8	46.1	2	28.6	16	387.4
300	12"	303	648	520	381	49.3	2	31.75	16	450.8



Accessories For Pneumatic Actuator

Degree of Protection

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











Input Signal **Supply Air Pressure** Standard Stroke Air Piping Connection : 1/4" NPT (F) Temperature Pressure Gauge **Explosion-Proof** Degree of Protection

Pressure Gauge Output Characteristics Linearity Sensitivity

Repeatability Air Consumption Flow Capacity Material Weight

Hysteresis

: 3 ~ 15psi (0.2-1.0 kgf/cm2) : 100 psi Max. (7.0 kgf/cm2)

: 10 ~ 80mm : -20 $^{\circ}$ C to 70 $^{\circ}$ C : Stainless Steel : Ex 'd' II CT6 · IP66

: Stainless Steel 0-2 kg/cm2 0-4 kg/cm² / 0-10 kg/cm²

: Within ± 1.0% F.S. : Within 0.2% F.S. : Within 0.2% F.S. : Within ± 0.75% F.S. : 5.0 LPM (1.4 kg/cm2) Supply

: 80 LPM (1.4 kg/cm2) Supply : Aluminium Die cast Body

: 1.8 Kg. (Approx)

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









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

: 4~20 mA DC Input Signal Input Resistance : 235 ±15 : 20 ~ 100psi (7.0 kg/cm²) Supply Air Pressure : 10 ~ 80mm Standard Stroke Air Piping Connection : 1/4" NPT (F) **Conduit Connection** : 1/2" NPT (F) : Ex 'd' II CT6 **Explosion-proof**

: IP66 : -20 °C to 70 °C Temperature : Stainless Steel 0-2 kg/cm² **Pressure Gauge** 0-4 kg/cm² / 0-10 kg/cm²

Output Characteristics: Rotary : Within ± 1.0% F.S. Linearity 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



: Mechanical Switch X 2 / Type Proximity Sensors P&F Make : LA4 - FLP - 01

Switch : Honywell V15 / Honywell 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

: -20 °C ~ 80 °C Temperature

: NPT 1/2" (PT 1/2", PF 1/2, Conduit Entry

M20, PG 13.5) · 8 Points Terminal

Mounting : Namur VDI / VDE 3845. Bracket ISO 5211

Material : Aluminum Pressure Die Cast

"aira" Flameproof Limit Switch Box



Type

Proximity Sensors P&F Make : MLS - BX - FLP - 01 : Honywell V15 / Honywell V15

: Mechanical Switch X 2 /

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

: -20 °C ~ 80 °C Temperature : NPT 1/2" (PT 1/2", PF 1/2, Conduit Entry

M20, PG 13.5)

: 8 Points Terminal Mounting

: Namur VDI / VDE 3845. **Bracket** ISO 5211

Material : Aluminum Pressure Die Cast

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









: Mechanical Switch X 2 / Type

Proximity Sensors P&F Make : LS4 - FLP-01 Model

> : Honywell V15 / Honywell 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

Switch

Temperature : -20 °C ~ 80 °C

Conduit Entry : NPT 1/2" (PT 1/2", PF 1/2,

M20, PG 13.5)

Terminal : 8 Points Mounting : Namur VDI / VDE 3845, Bracket ISO 5211

Material : Stainless Steel 304 / 316





"aira" Weatherproof Limit Switch Box



: Mechanical Switch X 2 /

Proximity Sensors P&F Make : MMLS - BX - WP - 01 : Honywell ZM / NJ2 - V3 - N (Upto 8 Voltage) / NBB - V3 - Z4

(Upto 10 to 60 VDC) : 1 NO + 1 NC

Switch Rating : AC 250V 3A, 125V 5A & DC 250V 0.2A, 125V 0.4A, 30V 4A

Enclosure

Protection

Temperature : -20 °C ~ 80 °C

Conduit Entry : NPT 1/2" (PT 1/2", PF 1/2,

M20, PG 13.5)

Terminal : 8 Points Mounting : Namur VDI / VDE 3845,

Bracket ISO 5211

Material : Aluminum Pressure Die Cast

VALVE AUTOMATION

Accessories For Pneumatic Actuator



"aira" 3/2 Way Namur **Direct Acting Solenoid Valve**

: NAM-SA-32 Model 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

: OTX - PPT - 32 / OTX - PPT - 52 : All Std. Voltage Available Coil Voltage

Frequency : 50 - 60 Hz : 1/4" (BSP / NPT) **Connection Type** Conduit : PF 1/2" **Coil Insulation Grade** : Class "F"

: -20 °C ~ 70 °C (-4 ~ 158 °F) Temperature : Aluminium MOC

Seals : NBR (Viton On Request)

Working Pressure : Upto 8 BAR



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

: 2OTX - PPT - 52 Model : All Std. Voltage Available Coil Voltage

: 50 - 60 Hz Frequency : 1/4" (BSP / NPT) **Connection Type** : PF 1/2" Conduit **Coil Insulation Grade** : Class "F"

: -20 °C ~ 70 °C (-4 ~ 158 °F) Temperature 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

: AMV-NAM-220 Model : All Std. Voltage Available **Coil Voltage** Frequency : 50 - 60 Hz : 1/4" (BSP / NPT) **Connection Type**

: PF 1/2" Conduit **Coil Insulation Grade** : Class "F"

: -20 °C ~ 70 °C (-4 ~ 158 °F) Temperature : Aluminium **Body Material**

Seals : NBR (Viton On Request) **Working Pressure** : Upto 8 BAR



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

: 2AMV-NAM-220 Model **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" : -20 °C ~ 70 °C (-4 ~ 158 °F) Temperature

Body Material : Aluminium Seals : NBR (Viton On Request)

Working Pressure : Upto 8 BAR



C.J Series 3/2 Way Direct Acting Solenoid Valve (Normally Open & Closed)

: CJDS-09-202 Model Size : 1/4" BSP : Aluminum Pressure Die Cast Body

Orifice : 2 MM : 10 Kg/cm² Pressure : Upto 50 °C Temp. Leakage : Bubble Tight

: 50 ~ 60 Hz Frequency Coil Insulation Grade: Class "F" Media

: Air (Filtered & Lubricated) : All Std. Voltage Available



"aira" Filter + Regulator Air Combination

Model : 4FQ / 8 FQ / FRJ Air Connection : 1/4" BSP

: 4FQ: 0.5 to 4 Kg/cm² Max. Supply Pressure 8FQ: 0.5 to 8 Kg/cm²

1 to 9 Kg/cm²

Gauge Connection : 1/8

: -20 °C ~ 120 °C (High Temp.) **Ambient Temperature** : -40 °C ~ 120 °C (low Temp.)

Mini Filtering Size : 5 Micron

Material · Aluminium Pressure Die Cast



"aira" Air Volume Booster

Model 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%



DALV

SALV

"aira" Single & Double Air Lock Valve

: SALV / DALV

: Aluminum / Stainless Steel 304 Max. Supply Pressure : Max. 10.2 Kg/cm2 (142 PSI) Max. Single Pressure : Max. 7.1 Kg/cm2 (1000 PSI) : 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)

: AMO Model Torque

: 200 Nm to 10000 Nm Body : Aluminum Pressure Die Cast /

S. G. Iron : Stainless Steel

Hand Wheel : S. S. / M. S. (Fabricated)





Applications

- Process & Chemical
- Refineries & Petrochemicals
- Drugs & Pharmaceuticals
- Thermal Power Stations
- Dyes & Intermediates
- Breweries & Distilleries
- Steel Plants
- Onshore & Offshore Platforms
- Nitrogen Plants

- Solvents Extraction Plants
- Sewage
- Cooling Water
- Ship Yards & Marine Management
- LPG Bottling Plants
- Water Works
- Pulp & Paper
- Fertilizers

- Textile
- Sugar
- Nuclear
- Paints 8
- Soaps 8
- Slurry 8
- Food &
- Effluent

■ This Products is Generally made to use on the High Pressure Piping system, It is widely Applied for Major Industries Sectors.

This Products of also performing exceptionally well in high vacuum & high sealing applications.

Ship Yards & Marine Managment
Thermal Power Station
Dyes & Intermediates

Marine Tankers- Ship Building

Off Shore Plants

Military Application

Foundary

Pulp & Paper Plants

Process & Chemical



Nuclear & Atomic Power Stations

Water Treatment – Purification

Food Plants

Steel & metal Plants

Tobacco Industries



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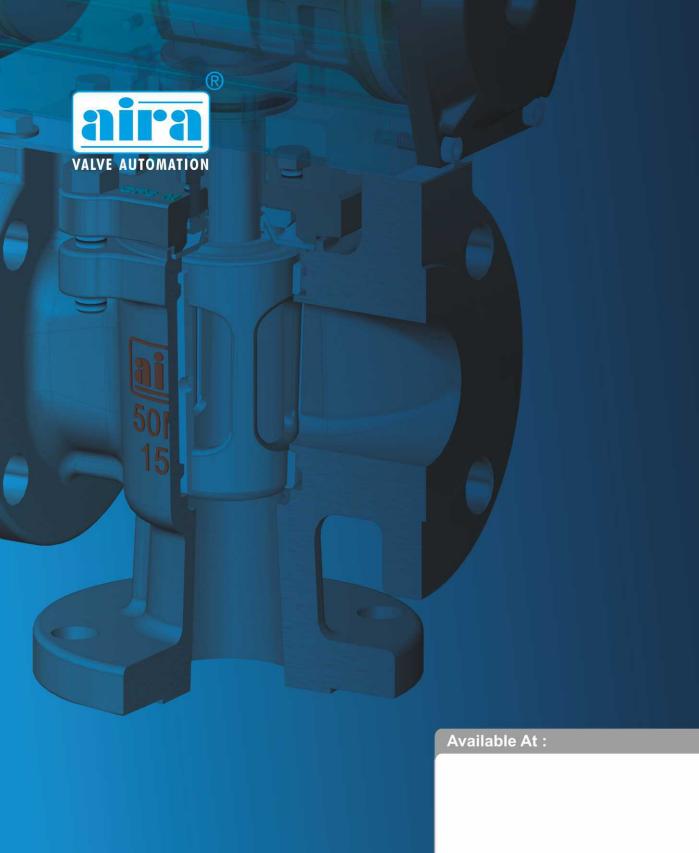
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Notes

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Pub. On APV_April_2019_3K

Mfg. & Mkt by : aira Euroautomation pvt. Itd. INDIA

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