

Your Solution Partner In
Industrial Valve Automation...



PNEUMATIC LINEAR DIAPHRAGM ACTUATOR WITH MANUAL OVER RIDE



Features

- Linear pneumatic diaphragm actuators available for controlling application with provision for On site conversion from Direct Acting & Reverse Acting.
- Pneumatic cylinder and power cylinder available for robust application needed in gate valves.
- Hard anodised Aluminium body and stainless steel version also available.
- Wide variety of torque range
- Complete automation accessories manufactured by us such as limit switches, positioner, FR, etc.



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 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 and 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.

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).



Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

QMS (Quality Management System)

ISO 9001 : 2015

EMS (Environment Management System)

ISO 14001 : 2015

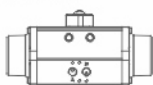
OHSAS (Occupational Health & Safety Management System)

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

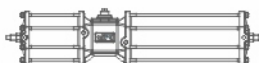
Pneumatic Actuator

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



Scotch & Yoke Actuator

CE / ATEX / SIL-3



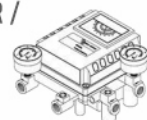
Stainless Steel Actuator

CE /
IEP ATEX



Positioner Enclosure

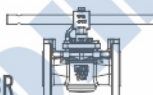
CE / CIMFR /
IP67 / BIS
/ PESO



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



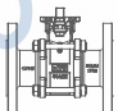
Limit Switch

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



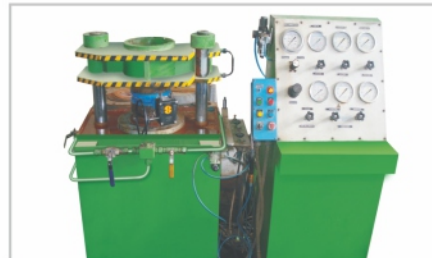
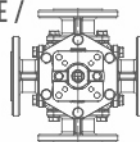
Butterfly Valve (centric / Double & Triple Eccentric)

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



Warranty Information



Best In Class 4 - Year Warranty

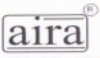
Aira 'ARA' Actuator manufactured by Aira Euro Automation Pvt. Ltd. are warranted against defects in material or workmanship for a period of four years from date of shipment. Our sole obligation under this warranty is to repair or replace, at our option, any product Aira 'ARA' Actuator products manufactured by Aira Euro Automation Pvt. Ltd. are warranted against defects in material or workmanship for a period of four year from date of shipment. Our sole obligation under this warranty is to repair or replace, at our option, any product or any part or parts thereof found to be defective. Aira Euro Automation Pvt. Ltd. MAKES NO OTHER REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The warranty set forth above is the only warranty applicable to Aira Euro Automation Pvt. Ltd. products and in no event shall Aira Euro Automation Pvt. Ltd. be liable for any delay, work stoppage, cartage, shipping, loss of use of equipment, loss of time, inconvenience, loss of profits of any direct or indirect incidental resulting from or attributable to a breach of warranty. The remedies under this warranty shall be the only remedies available. OUR MAXIMUM LIABILITY SHALL NOT IN ANY EVENT EXCEED THE CONTRACT PRICE FOR THE PRODUCT.

POD Certificates validates our vision of making actuators that are at par with most critical needs of our customer

we machine these actuators on world class machinery keeping stringent quality parameters to deliver actuators that Perform

 AIRA EURO AUTOMATION PRIVATE LIMITED TEST REPORT FOR ACTUATOR AS PER BS EN 15714:2009						
W.O.NO.	PROTOTYPE		W.O.DATE : 24/02/2014			
CUSTOMER	SELF		DRAWING NO. : ARA-90-SA REV : 0			
ACTUATOR SIZE	ARA-90		ACTUATOR TYPE S/A			
ACTUATOR SR.NO.	900114029		20-03-2014			
SR.	TEST	TEST DESCRIPTION	REQUIRED VALUE	OBSERVED VALUE	RESULT	REMARKS
1	TYPE	Output Torque	Nominal Pressure 5.5 Bar/Temp.10 C to 25 C	120 NM	OK	
2	TYPE	Pressure	Shell Test at Bar 8	8 BAR	OK	
3	TYPE	Endurance	5,00,000 cycle [Cycle Time 1=4 second.]	CYCLE 5,00,000	OK	
4	TYPE	Minimum Moving Pressure	Min.Moving Pressure Bar 2 at Temp.10 C to 25 C	OK	OK	
5	ROUTINE	Leakage	should complies to en 15714	NO VISIBLE LEAKAGE	OK	
6	TYPE	Operating Time	Max 3 second	OK	OK	
7	TYPE	Angle	90 [Range - 0 to 5]	90°	OK	
8	TYPE	Air Consumption	Std.Value	OK	OK	
9	TYPE	Enclosure	should complies to EN 60529	OK	OK	
10	TYPE	Corrosion protection	should complies to ISO 9277 REP. NO	ENV/G.0890/0900	OK	
10	TYPE	Basic Design	AIRA Design	OK	OK	
11	TYPE	position Indicator	ON-OFF Positioner.	OK	OK	
Above material has been inspected and complies to BS EN 15714:2009						
Tested By :				 ☐ Reviewed ☒ Witnessed Initial : <i>BAK</i> Date : 20/03/14 IN-0095		

POD Certificates available for complete range of Double & Single Acting Rack & Pinion Actuators Validating **5,00,000 CYCLES**

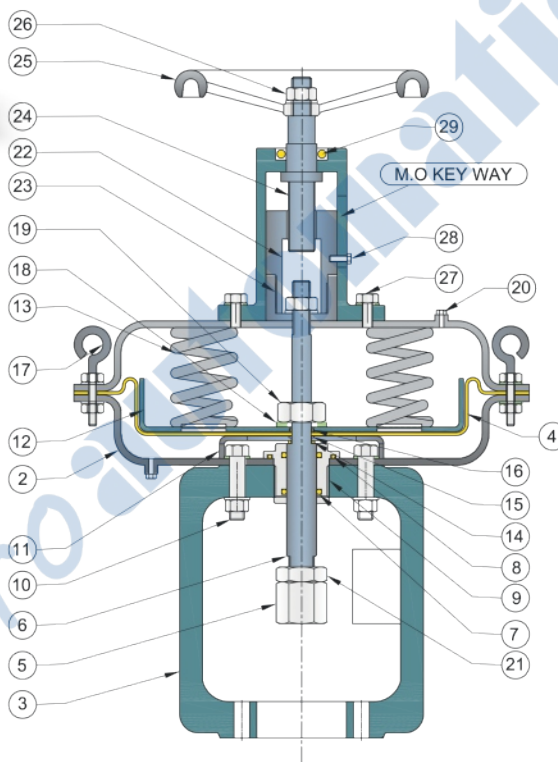
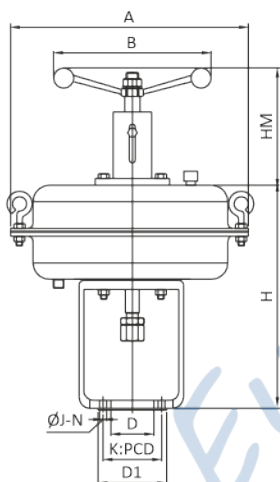
 AIRA EURO AUTOMATION PRIVATE LIMITED TEST REPORT FOR ACTUATOR AS PER BS EN 15714:2009						
W.O.NO.	PROTOTYPE		W.O.DATE : 22/12/2013			
CUSTOMER	SELF		DRAWING NO. : ARA-90-50 REV : 0			
ACTUATOR SIZE	ARA-90		ACTUATOR TYPE D/A			
ACTUATOR SR.NO.	90113085		18/11/2013			
SR.	TEST	TEST DESCRIPTION	REQUIRED VALUE	OBSERVED VALUE	RESULT	REMARKS
1	TYPE	Output Torque	Nominal Pressure 5.5 Bar/Temp.10 C to 25 C	142 NM	OK	
2	TYPE	Pressure	Shell Test at Bar 8	8 BAR	OK	
3	TYPE	Endurance	5,00,000 cycle [Cycle Time 1=4 second.]	CYCLE 5,00,000	OK	
4	TYPE	Minimum Moving Pressure	Min.Moving Pressure Bar 2 at Temp.10 C to 25 C	OK	OK	
5	ROUTINE	Leakage	should complies to en 15714	NO VISIBLE LEAKAGE	OK	
6	TYPE	Operating Time	Max 3 second	OK	OK	
7	TYPE	Angle	90 [Range - 0 to 5]	90°	OK	
8	TYPE	Air Consumption	Std.Value	OK	OK	
9	TYPE	Enclosure	should complies to EN 60529	OK	OK	
10	TYPE	Corrosion protection	should complies to ISO 9277 REP. NO	ENV/G.0890/0900	OK	
10	TYPE	Basic Design	AIRA Design	OK	OK	
11	TYPE	position Indicator	ON-OFF Positioner.	OK	OK	
Above material has been inspected and complies to BS EN 15714:2009						
Tested By :				 ☐ Reviewed ☒ Witnessed Initial : <i>BAK</i> Date : 22/12/13 IN-0095/10413		

Pneumatic Linear Diaphragm Actuator with Manual Over Ride

Technical Specification

- Inlet Air Supply : 2.5 to 4 Kg/cm²
- Stem Movement : Linear
- Actuator Action : Direct Acting / Reverse Acting
- Air Fail Position : Stem Extended / Stem Retracted

Type	Diaphragm Area (Cm ²)	Spring	Maximum Stroke (mm)	Air Pressure (Bar)	Max Thrust (N)	Volume (Ltrs / Stroke)
CND-01-NX	Direct	4 ~ 8	15 - 20	2.4 ~ 4	3000	0.4
	Reverse			0	500	
CND - 02	Direct	4 ~ 8	24 - 30	2.4 ~ 4	5200	1.77
	Reverse			0	920	
CND - 03	Direct	3 ~ 6	38 - 45	2.4 ~ 4	7800	4.18
	Reverse			0	720	
CND - 04	Direct	4 ~ 8	55 - 65	2.4 ~ 4	11000	8.93
	Reverse			0	3840	
CND - 06	Direct	3 ~ 6	100 - 120	2.4 ~ 4	15000	27.07
	Reverse			0	5000	



No.	Description	Material
1	Top Cover	M. S.
2	Bottom Cover	M. S.
3	Yoke	S. G. Iron
4	Diaphragm	Nitrile
5	Connecting Nut	S. S. 304
6	Stem	S. S. 304
7	Stem Seal	Viton
8	Seal for Bearing Bush	Viton
9	Bearing Bush	Aluminium
10	Bolt + Nut for Yoke	S. S. 202
11	Pressure Plate	M. S.
12	Spring Plate	M. S.
13	Spring	Spring Steel
14	'O' - Ring	Viton
15	'O' - Ring	Viton
16	'O' - Ring	Viton
17	Lifting Hook Nut + Washer	M. S.
18	Spring Washer	S. S. 202
19	Stem Lock Nut	S. S.
20	Silencer	Plastic
21	Check Nut	S. S. 304
22	Collar Big	S. S. 304
23	Collar Small	S. S. 304
24	Screw for M. O.	S. S. 304
25	Hand Wheel	S. G. Iron
26	M. O. Locknut + Washer	S. S. 202
27	Housing Nut + Bolt + Washer	S. S. 202
28	Grub Screw	M. S.
29	Thrust Bearing	S. S. 202
30	Housing Bonnet	Cast Iron

Dimensions :

Valve Model	D	D1	ØJ - N	K:PCD	H	HM	A	B	Valve Size
CND-01-NX	60	100	9 - 4	80	280	170	205	252	DN15 - DN25
CND - 02	60	105	9 - 4	80	300	175	288	252	DN40 - DN65
CND - 03	80	135	12 - 4	105	330	220	376	355	DN80 - DN100
CND - 04	95	158	12 - 4	120	510	280	475	355	DN125 - DN150
CND - 06	100	197	14 - 8	140	620	395	594	600	DN200 - DN300

(All Dimensions are in mm)



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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	

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	: Up to 8 BAR

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	: Up to 8 BAR

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	: Up to 8 BAR

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

Model	: AJDS / AJCS / CJDS / CJCS
Size	: 1/4" BSP
Body	: Aluminum 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

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

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%

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

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)



*time tested designs with
superior performance*

GLOBAL

Network



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industrial valve automation

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