

Your Solution Partner In  
Industrial Valve Automation...



# PNEUMATIC ROTARY SCOTCH & YOKE ACTUATOR DOUBLE ACTING



## Features

- Double acting scotch and yoke actuators manufactured for torques upto 1,10,000NM.
- Hard anodised Aluminium body and stainless steel version also available.
- ISO 5211 mounting pad in all rotary actuators for easy mounting
- 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](http://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

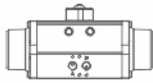
**OHSAS (Occupational Health & Safety Management System)**

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

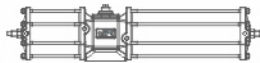
**Pneumatic Actuator**

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



**Scotch & Yoke Actuator**

CE / ATEX / SIL-3



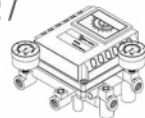
**Stainless Steel Actuator**

CE /  
IEP ATEX



**Positioner Enclosure**

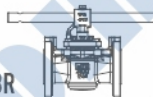
CE / CIMFR /  
IP67 / BIS  
/ PESO



**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



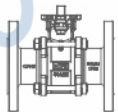
**Limit Switch**

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



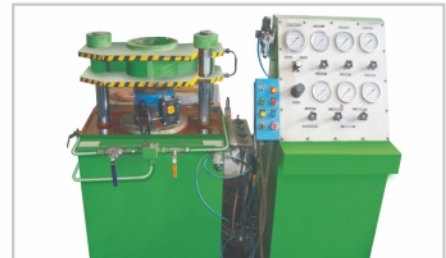
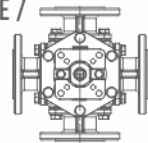
**Butterfly Valve (centric / Double & Triple Eccentric)**

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.

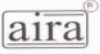


POD Certificates validates our vision of making actuators that are at par with most critical needs of our customer

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

|  <b>AIRA EURO AUTOMATION PRIVATE LIMITED</b><br><b>TEST REPORT FOR ACTUATOR AS PER BS EN 15714:2009</b> |           |                         |                                                |                                                                                                                                                                                                                                 |        |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| 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 :                                                                                                                                                                              |           |                         |                                                | <br><input type="checkbox"/> Reviewed<br><input checked="" type="checkbox"/> Witnessed<br>Initial : <i>BAK</i><br>Date : 20/03/14<br>IN-0095 |        |         |
|                                                                                                                                                                                          |           |                         |                                                | Approved By :                                                                                                                                                                                                                   |        |         |

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

|  <b>AIRA EURO AUTOMATION PRIVATE LIMITED</b><br><b>TEST REPORT FOR ACTUATOR AS PER BS EN 15714:2009</b> |           |                         |                                                |                                                                                                                                                                                                                                        |        |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| 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 :                                                                                                                                                                                |           |                         |                                                | <br><input type="checkbox"/> Reviewed<br><input checked="" type="checkbox"/> Witnessed<br>Initial : <i>BAK</i><br>Date : 22/12/13<br>IN-0095/10413 |        |         |
|                                                                                                                                                                                            |           |                         |                                                | Approved By :                                                                                                                                                                                                                          |        |         |

# Pneumatic Rotary Scotch & Yoke Actuator [ Double Acting ]

"aira" Offers SAY-DA Series heavy duty Scotch Yoke Actuators offer a broad range of torques to 116984 NM. The Scotch & Yoke is designed to operate Ball, Butterfly, Plug Valves, Dampers or any device that requires a quarter-turn movement for on-off or throttling services. Our standard offering is the symmetrical design yoke that delivers maximum torque at both ends of the 90° cycle. The square sliding bearing with guide bar gives high cycle life and smooth stroke while minimizing wear points. As with all "aira" actuators, our Scotch & Yoke comes with a complete line of accessories, including jackscrew, hydraulic overrides, limit switches, solenoids and positioners...

## Heavy Duty Scotch & Yoke Actuator Features

- Travel adjustment  $\pm 80$  for clock wise and counter-clock wise strokes
- Nitrile rubber piston O-rings offer excellent sealing and wear. Optional low and high temperature seals and lube are available
- PTFE Guide Band supports piston while providing smooth operation and extended life
- Extra large, strong piston rod for long life and torque transmission
- Namur accessory mounting pads permit mounting standardization of limit switches, positioners etc.
- Ductile iron center body
- Modular design allows for installing power groups and spring cartridges so that actuators may be set up for different air pressures and for Fail Clockwise and Fail Counter-clockwise
- Rugged heavy duty steel pressure cylinders chrome plated for long wear and corrosion resistance
- Safe, welded spring cartridges with numerous options for a broad range of air pressure conditions
- Alloy Steel, corrosion resistant and heat treated springs designed and manufactured for long high cycle life
- Steel slide block, bronze slide bearings to minimize friction and provide long cycle life Visual position indicator
- Carbon steel Scotch Yoke mechanism available in symmetric form
- Totally enclosed weatherproof central body



Output Torque of DOUBLE ACTING Actuator

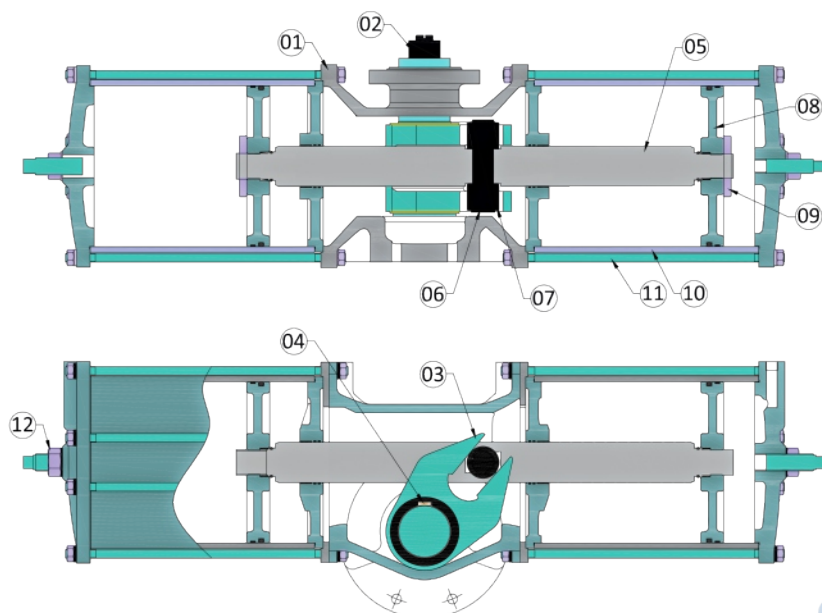
| Valve Model | Torque In Nm 10Nm = 1 kgf |       |       |        |        |
|-------------|---------------------------|-------|-------|--------|--------|
|             | Air Pressure (Bar)        |       |       |        |        |
|             | 3                         | 4     | 5     | 6      | 7      |
| SAY-DA-14   | 515                       | 620   | 770   | 930    | 1080   |
| SAY-DA-18   | 950                       | 1270  | 1590  | 1910   | 2230   |
| SAY-DA-20A  | 1125                      | 1500  | 1875  | 2250   | 2625   |
| SAY-DA-20B  | 1540                      | 2050  | 2570  | 3090   | 3590   |
| SAY-DA-25   | 3075                      | 4011  | 5125  | 6150   | 7175   |
| SAY-DA-30   | 5150                      | 6860  | 8580  | 10300  | 12020  |
| SAY-DA-35   | 10120                     | 13500 | 16870 | 20250  | 23620  |
| SAY-DA-40   | 13220                     | 17630 | 22040 | 26450  | 30860  |
| SAY-DA-50   | 20790                     | 27720 | 34650 | 41580  | 48510  |
| SAY-DA-60   | 30120                     | 40160 | 50201 | 60241  | 70281  |
| SAY-DA-70   | 50136                     | 66848 | 83560 | 100272 | 116984 |



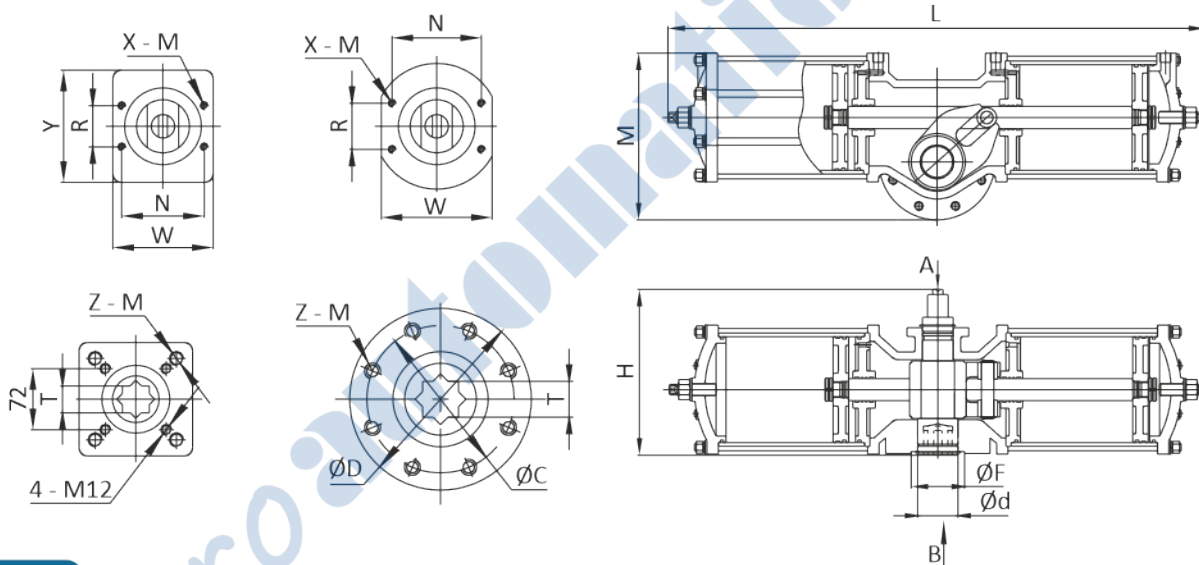
Note : Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.



# Pneumatic Rotary Scotch & Yoke Actuator [ Double Acting ]



| No. | Description   | Material                |
|-----|---------------|-------------------------|
| 1   | Body          | ASTM A 536 Gr. 64-45-12 |
| 2   | Stem          | EN8                     |
| 3   | Scotch Yoke   | ASTM A216 WCB           |
| 4   | Key           | EN8                     |
| 5   | Piston Rod    | EN8 Chromeplated        |
| 6   | Pin           | M. S.                   |
| 7   | Roller        | M. S.                   |
| 8   | Piston        | ASTM A 536 Gr. 64-45-12 |
| 9   | Nut           | M. S.                   |
| 10  | Cylinder      | ASTM A 106 Gr. B        |
| 11  | Cylinder Stud | EN8                     |
| 12  | Cap Nut       | M. S.                   |
| 13  | All Guide     | Delrin                  |
| 14  | All Seals     | Hi - Nitrile            |



## Dimensions :

| Valve Model | L    | H   | M   | ØC  | ØD  | Z-M    | Ød  | ØF  | T     | W   | Y    | N   | R  | X-M  | Air Supply Port | Weight Approx. Kgs |
|-------------|------|-----|-----|-----|-----|--------|-----|-----|-------|-----|------|-----|----|------|-----------------|--------------------|
| SAY-DA-14   | 570  | 180 | 200 | 102 | 130 | 4-M12  | 32  | 80  | 27X27 | 85  | 95   | 80  | 30 | 4-M6 | G 1/4"          | 31.000             |
| SAY-DA-18   | 790  | 230 | 225 | 140 | 170 | 4-M16  | 45  | 120 | 36X36 | 115 | 145  | 80  | 30 | 4-M6 | G 3/8"          | 59.450             |
| SAY-DA-20A  | 830  | 245 | 275 | 140 | 172 | 4-M16  | 54  | 130 | 36X36 | 120 | 150  | 80  | 30 | 4-M5 |                 | 170.000            |
| SAY-DA-20B  | 965  | 255 | 320 | 165 | 215 | 4-M16  | 54  | 130 | 36X36 | 120 | 150  | 90  | 30 | 4-M5 |                 | 170.000            |
| SAY-DA-25   | 1195 | 295 | 390 | 200 | 240 | 8-M16  | 64  | 166 | 46X46 | 137 | 157  | 120 | 50 | 4-M5 | G 1/2"          | 176.200            |
| SAY-DA-30   | 1340 | 365 | 415 | 254 | 310 | 8-M16  | 74  | 220 | 55X55 | 160 | 170  | 159 | 60 | 4-M6 |                 | 325.000            |
| SAY-DA-35   | 1860 | 450 | 540 | 300 | 350 | 8-M24  | 100 | 220 | 28X2  | 204 | ---- | 170 | 60 | 4-M8 | G 3/4"          | 600.000            |
| SAY-DA-40   | 1860 | 500 | 580 | 300 | 350 | 8-M24  | 100 | 220 | 28X2  | 230 | ---- | 180 | 60 | 4-M6 |                 | 800.000            |
| SAY-DA-50   | 2340 | 615 | 695 | 356 | 415 | 8-M30  | 120 | 260 | 32X2  | 230 | ---- | 180 | 60 | 4-M8 |                 | 1070.000           |
| SAY-DA-60   | 2430 | 720 | 720 | 356 | 415 | 8-M30  | 120 | 260 | 32X2  | 256 | ---- | 220 | 60 | 4-M8 |                 | 1580.000           |
| SAY-DA-70   | 3160 | 850 | 920 | 483 | 550 | 12-M36 | 180 | 370 | 45X2  | 256 | ---- | 250 | 60 | 4-M8 | ----            | ----               |

(All Dimensions are in mm)







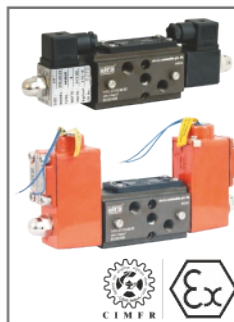
## "aira" 3/2 Way Namur Direct Acting Solenoid Valve

|                                                                            |                                 |
|----------------------------------------------------------------------------|---------------------------------|
| 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                      |



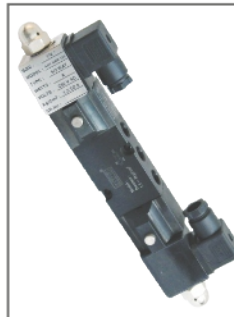
## "aira" 3/2 & 5/2 Way Convertible Poppet Type Double Namur Solenoid Valve

|                       |                                 |
|-----------------------|---------------------------------|
| Model                 | : 2OTX - 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                    |



## AJ & CJ Series 3/2 Way Direct Acting Solenoid Valve (Normally Open & Closed)

|                       |                                                |
|-----------------------|------------------------------------------------|
| Model                 | : AJDS / AJCS / CJDS / CJCS                    |
| Size                  | : 1/4" BSP                                     |
| Body                  | : Aluminum Pressure Die Cast                   |
| Orifice               | : 2 MM                                         |
| Pressure              | : 7 Kg/cm <sup>2</sup> / 10 Kg/cm <sup>2</sup> |
| 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/cm <sup>2</sup><br>8FQ : 0.5 to 8 Kg/cm <sup>2</sup><br>1 to 9 Kg/cm <sup>2</sup> |
| Gauge Connection     | : 1/8"                                                                                                |
| Ambient Temperature  | : -20 °C ~ 120 °C (High Temp.)<br>-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                  | : Aluminium / 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)<br>-20 °C ~ 120 °C (High)<br>-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/cm <sup>2</sup> ( 142 PSI )    |
| Max. Single Pressure      | : Max. 7.1 Kg/cm <sup>2</sup> ( 1000 PSI )    |
| Setting Pressure Range    | : 1.4-7.1 Kg/cm <sup>2</sup> ( 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 <sup>2</sup> ( 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)              |



*time tested designs with  
superior performance*

# GLOBAL

Network



**▲ International Dealers**

|             |              |          |
|-------------|--------------|----------|
| AUSTRALIA   | MALAYSIA     | VIETNAM  |
| BAHRAIN     | MEXICO       | NIGERIA  |
| BANGLADESH  | NEPAL        | YEMEN    |
| BHUTAN      | OMAN         | ZIMBABWE |
| BRAZIL      | PARAGUAY     |          |
| CHILE       | PERU         |          |
| COLOMBIA    | PHILIPPINES  |          |
| ECUADOR     | QATAR        |          |
| EGYPT       | RUSSIA       |          |
| FUJI        | SINGAPORE    |          |
| INDONESIA   | SOUTH AFRICA |          |
| IRAN        | SRI LANKA    |          |
| IRAQ        | TAIWAN       |          |
| IRELAND     | TANZANIA     |          |
| ITALY       | TURKEY       |          |
| JORDAN      | UAE          |          |
| KAZAKHISTAN | UGANDA       |          |
| KENYA       | UK           |          |
| KSA         | USA          |          |
| MALAWI      | UZBEKISTAN   |          |





*industrial valve automation*

# Network

Head Office & Works  
AHMEDABAD

## Branch Office & Showroom

|                           |                             |
|---------------------------|-----------------------------|
| AHMEDABAD                 | KIM (ANKLISHWAR)            |
| ANAND                     | KOLHAPUR (MAHARASHTRA)      |
| ANDHERI                   | KOLKATA                     |
| ANKLISHWAR                | MAHJUSAR (BARODA)           |
| ASSAM                     | MEHSANA                     |
| AURANGABAD                | MUMBAI                      |
| BAKROL                    | MUNDRA                      |
| BANGLORE                  | MORBI                       |
| BARODA                    | MUZAFFARNAGAR               |
| BALANAGAR (HYDERABAD)     | NAGPUR                      |
| BHARUCH                   | NOIDA                       |
| BHOPAL                    | PALANPUR                    |
| BHIWANDI (MAHARASHTRA)    | PANIPAT                     |
| BOISAR                    | PANJAGUTA (HYDERABAD)       |
| CHANGODAR                 | PITHAMPUR (MADHYA PRADESH)  |
| CHENNAI                   | PUNE                        |
| CHHATRAL                  | PASHAMELARAM (HYDERABAD)    |
| CHIPLUN (MAHARASHTRA)     | RAJKOT                      |
| COIMBATORE                | RAJASTHAN                   |
| DAHEJ                     | RAKHIAL (AHMEDABAD)         |
| DELHI                     | RANICANJ (HYDERABAD)        |
| FARIDABAD                 | SANAND                      |
| GANDHIDHAM                | SECUNDERABAD                |
| GHAZIABAD                 | SILVASSA (MAHARASHTRA)      |
| GUWAHATI                  | SURAT                       |
| GWALIOR                   | TARAPUR                     |
| HYDERABAD                 | TRAJAPUR (RAJKOT)           |
| HUBLI (KARNATAKA)         | VIJAYWADA (ANDHRA PRADESH)  |
| INDORE                    | UMARGAON (VAPI)             |
| ICHALKARANJ (MAHARASHTRA) | VAPI                        |
| JAIPUR                    | VASAI                       |
| JODHPUR                   | VATVA                       |
| JHARKHAND                 | VIDHYANAGAR (ANAND)         |
| KANPUR                    | VISHAKHAPATNAM (ANDHRA PR.) |
| KAKINADA (ANDHRA PRADESH) | WAGHODIYA (BARODA)          |

## Dealers & Distributors

|            |               |
|------------|---------------|
| AMRITSAR   | KOLKATA       |
| BALOTA     | LUCKNOW       |
| BANGLORE   | LUDHIANA      |
| BELGAUM    | MARWAR        |
| BHILWARA   | MEERUT        |
| CHANDICARH | MUZAFFARNAGAR |
| CHENNAI    | NAGPUR        |
| COCHIN     | NOIDA         |
| COIMBATORE | PANIPAT       |
| DELHI      | PEENYA        |
| ERODE      | PUNE          |
| FARIDABAD  | TRIPUR        |
| GHAZIABAD  | VARANASI      |
| GOA        | VISAKHAPATNAM |
| INDORE     | WADI          |
| JALANDHAR  | KANPUR        |
| JAMSHEDPUR | KOLHAPUR      |
| JHARKHAND  |               |

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



Available At :

Mfg. & Mkt by  
**aira Euroautomation pvt. Ltd.**  
INDIA