

# SERIES : B Pneumatic Rotary Actuator

## Operated Ball Valves

2 pc. / 3 pc. / Jacketed Design Available



### Types of Valves Available

- 2 Way / 3 Way / 4 Way / 5 Way Screwed / Flanged
- Seals - PTFE / GFT / CFT / TFM / METAL TO METAL / PEEK
- Rating Upto 1500 Class
- Jacketed Valve with Replicable Seals Available
- MOC - WCB / CF8 / CF8M / CF3M
- Fire Safe Design Available

# PNEUMATIC ROTARY ACTUATOR OPERATED 3 pc. Design Ball Valve

Catalogue No.  
APL / 1002

"aira"

offers ISO 5211 Standard Pneumatic Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve in Three Piece design, engineered for multiple ON/OFF operations in the down stream.

Size Range : 1/2" to 14" Screwed / Flanged / Triclover / Socket weld

| Item                    | Type of Test          | Testing Pressure | Working Pressure | Operating Temperature (High Temp. On Request) |
|-------------------------|-----------------------|------------------|------------------|-----------------------------------------------|
| Actuator                | Pneumatic Bubble Test | 115 PSIG         | 60 To 115 PSIG   | -20 °C to 80 °C                               |
| Valve Body Screwed End  | Hydraulic             | 450 PSIG         | 315 PSIG         | Max.180 °C                                    |
| Valve Body Flanged 150# | Hydraulic             | 450 PSIG         | 315 PSIG         | Max.180 °C                                    |
| Valve Body Flanged 300# | Hydraulic             | 1125 PSIG        | 815 PSIG         | Max.180 °C                                    |

Note - Fire Safe Design Available on Request Note : 1500# Available On Request.

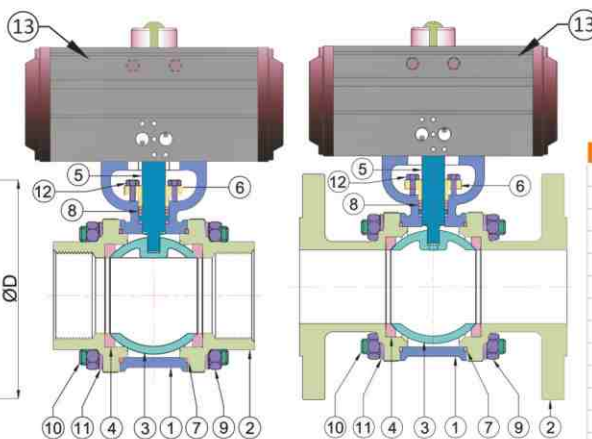
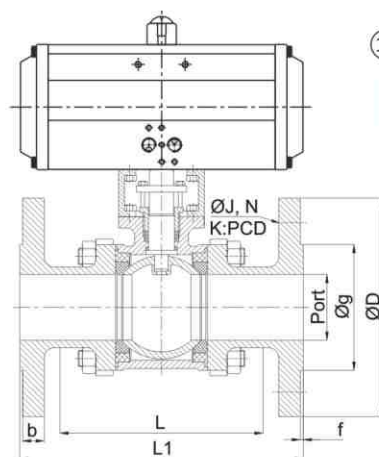
## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coi-on request)
- Pneumatic & Electro-Pneumaticvalve positioner
- Declutchable Manual Over - ride
- Limit Switches for On/Off Indication at Panel board

- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

## Standard :-

Design And Manufacturer : ASME B 16.34 / BS EN ISO 17292 / API - 6D  
Valve Face To Face Dimension : ASME B 16.10  
Flange Standard Conformity : ASME B 16.5 Class 150, 300  
Inspection & Testing : API 598 / FCI - 70-2 / BS EN 12266 - 1 / API - 6D



**FIRE SAFE  
DESIGN  
AVAILABLE**



| No. | DESCRIPTION        | MATERIAL                      | QTY |
|-----|--------------------|-------------------------------|-----|
| 1   | Body               | WCB / CF8 / CF8M / CF3M       | 01  |
| 2   | End Connector      | WCB / CF8 / CF8M / CF3M       | 02  |
| 3   | Ball               | CF8 / CF8M / CF3M             | 01  |
| 4   | Ball Seat          | PTFE / CFT / GFT / PEEK / TFM | 02  |
| 5   | Stem Pin           | AISI S. S. 304 / S. S. 316    | 01  |
| 6   | Gland with Bush    | S. S. 304                     | 01  |
| 7   | Body Seat          | PTFE / CFT / GFT / PEEK / TFM | 02  |
| 8   | Stem Seat          | PTFE / CFT / GFT / PEEK / TFM | 04  |
| 9   | Nut                | M. S. / S. S.                 | 08  |
| 10  | Stud               | M. S. / S. S.                 | 04  |
| 11  | Washer             | M. S. / S. S.                 | 08  |
| 12  | Gland Fitting Bolt | S. S.                         | 02  |
| 13  | Actuator           | STD.                          | 01  |

## Dimensions :

(All Dimensions are in mm)

| Valve Model | Valve Size |        | Screwed |             | Flanged 150# |      |   |      |       |     |       |    |       |        | Weight (Approx) Kgs. | Flanged 300# |   |      |       |     |       |    |       |        |  | Weight (Approx) Kgs. |
|-------------|------------|--------|---------|-------------|--------------|------|---|------|-------|-----|-------|----|-------|--------|----------------------|--------------|---|------|-------|-----|-------|----|-------|--------|--|----------------------|
|             | MM         | Inch   | L       | Weight Kgs. | L1           | b    | f | Port | Øg    | ØD  | ØJ    | N  | K:PCD | L1     |                      | b            | f | Port | Øg    | ØD  | ØJ    | N  | K:PCD |        |  |                      |
| BMW - 15    | 15         | 1/2"   | 64      | 1.250       | 108          | 8    | 2 | 13   | 34.9  | 90  | 15.9  | 4  | 60.3  | 2.000  | 140                  | 12.7         | 2 | 13   | 34.9  | 95  | 15.9  | 4  | 66.7  | 2.350  |  |                      |
| BMW - 20    | 20         | 3/4"   | 70      | 2.100       | 117          | 8.9  | 2 | 19   | 42.9  | 100 | 15.9  | 4  | 69.9  | 3.100  | 152                  | 14.3         | 2 | 19   | 42.9  | 115 | 19.05 | 4  | 82.6  | 4.200  |  |                      |
| BMW - 25    | 25         | 1"     | 88      | 2.350       | 127          | 9.6  | 2 | 25   | 50.8  | 110 | 15.9  | 4  | 79.4  | 3.800  | 165                  | 15.9         | 2 | 25   | 50.8  | 125 | 19.05 | 4  | 88.9  | 5.400  |  |                      |
| BMW - 32    | 32         | 1.1/4" | 105     | 2.700       | 140          | 11.2 | 2 | 32   | 63.5  | 115 | 15.9  | 4  | 88.9  | 4.300  | 178                  | 17.5         | 2 | 32   | 63.5  | 135 | 19.05 | 4  | 98.4  | 6.3000 |  |                      |
| BMW - 40    | 40         | 1.1/2" | 114     | 3.600       | 165          | 12.7 | 2 | 38   | 73    | 125 | 15.9  | 4  | 98.4  | 5.900  | 190                  | 19.1         | 2 | 38   | 73    | 155 | 22.2  | 4  | 114.3 | 8.400  |  |                      |
| BMW - 50    | 50         | 2"     | 130     | 5.250       | 178          | 14.3 | 2 | 49   | 92.1  | 150 | 19.05 | 4  | 120.7 | 8.650  | 216                  | 20.7         | 2 | 49   | 92.1  | 165 | 19.05 | 8  | 127   | 11.050 |  |                      |
| BMW - 65    | 65         | 2.1/2" | 170     | 12.550      | 190          | 15.9 | 2 | 62   | 104.8 | 180 | 19.05 | 4  | 139.7 | 15.000 | 241                  | 23.9         | 2 | 62   | 104.8 | 190 | 22.2  | 8  | 149.2 | 19.030 |  |                      |
| BMW - 80    | 80         | 3"     | 200     | 17.700      | 203          | 17.5 | 2 | 74   | 127   | 190 | 19.05 | 4  | 152.4 | 19.350 | 282                  | 27           | 2 | 74   | 127   | 210 | 22.2  | 8  | 168.3 | 26.750 |  |                      |
| BMW - 100   | 100        | 4"     | 210     | 28.900      | 229          | 22.3 | 2 | 100  | 157.2 | 230 | 19.05 | 8  | 190.5 | 32.400 | 305                  | 30.2         | 2 | 100  | 157.2 | 255 | 22.2  | 8  | 200   | 42.600 |  |                      |
| BMW - 125   | 125        | 5"     | -       | -           | 254          | 22.3 | 2 | 125  | 185.7 | 255 | 22.2  | 8  | 215.9 | 37.000 | 381                  | 33.4         | 2 | 125  | 185.7 | 280 | 22.2  | 8  | 235   | ---    |  |                      |
| BMW - 150   | 150        | 6"     | -       | -           | 267          | 23.9 | 2 | 150  | 215.9 | 280 | 22.2  | 8  | 241.3 | 45.000 | 403                  | 35           | 2 | 150  | 215.9 | 320 | 22.2  | 12 | 269.9 | ---    |  |                      |
| BMW - 200   | 200        | 8"     | -       | -           | 292          | 27   | 2 | 201  | 269.9 | 345 | 22.2  | 8  | 298.5 | 85.000 | 419                  | 39.7         | 2 | 201  | 269.9 | 380 | 25.4  | 12 | 330.2 | ---    |  |                      |
| BMW - 250   | 250        | 10"    | -       | -           | 330          | 28.6 | 2 | 252  | 323.8 | 405 | 25.4  | 12 | 362   | 106.00 | 457                  | 46.1         | 2 | 252  | 323.8 | 445 | 28.6  | 16 | 387.4 | ---    |  |                      |
| BMW - 300   | 300        | 12"    | -       | -           | 610          | 30.2 | 2 | 303  | 381   | 485 | 25.4  | 12 | 431.8 | ---    | 648                  | 49.3         | 2 | 303  | 381   | 520 | 31.75 | 16 | 450.8 | ---    |  |                      |
| BMW - 350   | 350        | 14"    | -       | -           | 648          | 33.4 | 2 | 334  | 412.8 | 535 | 28.6  | 12 | 476.3 | ---    | 765                  | 52.4         | 2 | 334  | 412.8 | 585 | 31.75 | 20 | 514.4 | ---    |  |                      |

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.

Pub. on: January, 2015 (Rev.-01)



# PNEUMATIC ROTARY ACTUATOR OPERATED 3 pc. Design Metal Seated Ball Valve

Catalogue No.  
APL / 1078



**"aira"**

offers ISO 5211 Standard Pneumatic Actuator Operated Metal Seated Ball Valve designed for using in the server conditions such as high temperature and high friction fluid like abrasive fluids of Oil and Gas, Petroleum, Petrochemical, Chemical Power Generation, Pulp & Paper Mining Industry.

**Size Range : 1/2" to 4" Screwed / Flanged**

## Features :

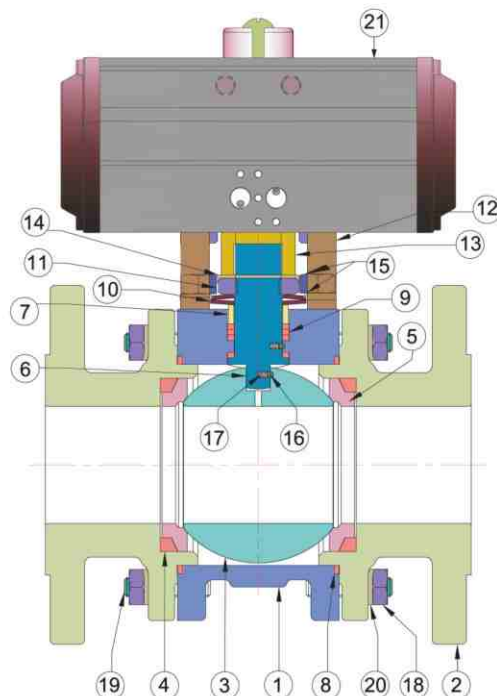
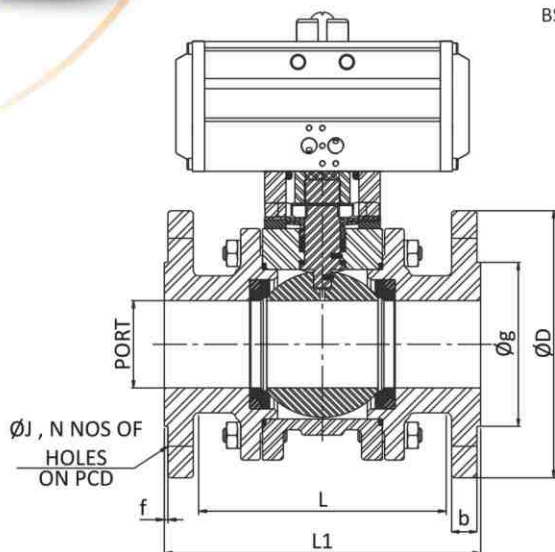
- Metal Seated Ball Valves are inherently fire safe and it's design is Metal anti-static by nature of the metal to metal contact.
- Harden face treatment on ball and seats provides the longer life cycle in Cryogenic environment.
- Advanced seat structure and high precision ball preparation can ensure Sealing performance and reduce the operation torque
- Highly precise machining enables the ball and seat tight shut-off
- Suitable for temperature range -50 °C to 500 °C ( -50 °C to 800 °C (On Request)

## Standard :-

Design And Manufacturing : BS EN ISO 17292  
Valve Face To Face Dimension : ASME B 16.10  
Flange Standard Conformity : ASME B 16.5 Class 150, 300  
Inspection & Testing : API 598 / FCI - 70-2  
BS EN 12266 - 1

## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Decutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



| No. | DESCRIPTION                              | MATERIAL             | QTY |
|-----|------------------------------------------|----------------------|-----|
| 1   | Body                                     | WCB / CF8 / CF8M     | 01  |
| 2   | End Connector                            | WCB / CF8 / CF8M     | 02  |
| 3   | Ball                                     | CF8 / CF8M           | 01  |
| 4   | Ball Back Seat                           | CFT                  | 02  |
| 5   | Ball Seat                                | S. S. 304 / 316      | 02  |
| 6   | Stem Pin                                 | AISI S. S. 304 / 316 | 01  |
| 7   | Spacer Ring                              | S. S. 304 / 316      | 01  |
| 8   | Body Seat                                | CFT                  | 02  |
| 9   | Stem Seat                                | CFT                  | 04  |
| 10  | Disc Spring                              | Spring Steel         | 02  |
| 11  | Stem Nut                                 | S. S. 304            | 01  |
| 12  | Bracket                                  | CF8                  | 01  |
| 13  | Adaptor                                  | S. S. 304            | 01  |
| 14  | Lock Washer                              | S. S. 304            | 01  |
| 15  | Bracket Fitting Hex Bolt + Spring Washer | S. S. 304            | 04  |
| 16  | Antistatic Ball                          | S. S. 304            | 02  |
| 17  | Antistatic Spring                        | S. S. 302            | 02  |
| 18  | Fitting Nut                              | H. T. / S. S. 304    | 08  |
| 19  | Fitting Stud                             | H. T. / S. S. 304    | 04  |
| 20  | Spring Washer                            | H. T. / S. S. 304    | 08  |
| 21  | Actuator                                 | STD.                 | 01  |

## Dimensions :

(All Dimensions are in mm)

| Valve Model | Valve Size |        | Screwed |             | Flanged 150# |      |   |      |       |     |       |   |       |        | Weight (Approx) Kgs. |
|-------------|------------|--------|---------|-------------|--------------|------|---|------|-------|-----|-------|---|-------|--------|----------------------|
|             | MM         | Inch   | L       | Weight Kgs. | L1           | b    | f | Port | Øg    | ØD  | ØJ    | N | K:PCD |        |                      |
| BMS - 15    | 15         | 1/2"   | 71      | 2.300       | 108          | 8    | 2 | 13   | 34.9  | 90  | 15.9  | 4 | 60.3  | 2.950  |                      |
| BMS - 20    | 20         | 3/4"   | 94      | 2.950       | 117          | 8.9  | 2 | 19   | 42.9  | 100 | 15.9  | 4 | 69.9  | 4.200  |                      |
| BMS - 25    | 25         | 1"     | 108.5   | 3.700       | 127          | 9.6  | 2 | 25   | 50.8  | 110 | 15.9  | 4 | 79.4  | 4.900  |                      |
| BMS - 32    | 32         | 1.1/4" | 116     | 4.400       | 140          | 11.2 | 2 | 32   | 63.5  | 115 | 15.9  | 4 | 88.9  | 6.050  |                      |
| BMS - 40    | 40         | 1.1/2" | 128     | 5.750       | 165          | 12.7 | 2 | 38   | 73    | 125 | 15.9  | 4 | 98.4  | 7.900  |                      |
| BMS - 50    | 50         | 2"     | 158     | 8.800       | 178          | 14.3 | 2 | 49   | 92.1  | 150 | 19.05 | 4 | 120.7 | 9.950  |                      |
| BMS - 65    | 65         | 2.1/2" | 185     | 13.300      | 190          | 15.9 | 2 | 62   | 104.8 | 180 | 19.05 | 4 | 139.7 | 19.900 |                      |
| BMS - 80    | 80         | 3"     | 205     | 19.100      | 203          | 17.5 | 2 | 74   | 127   | 190 | 19.05 | 4 | 152.4 | 26.450 |                      |
| BMS - 100   | 100        | 4"     | 239     | 28.900      | 229          | 22.3 | 2 | 100  | 157.2 | 230 | 19.05 | 8 | 190.5 | 37.900 |                      |

Note : 300# & 600# Dimension are On Request.

Note : Big Sizes 5" to 10" On Request.

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Pub. on: January, 2015 (Rev.-01)

# PNEUMATIC ROTARY ACTUATOR OPERATED 2 pc. Design "VGO" Ball Valve

Catalogue No.  
APL / 2027



**"aira"**

offers ISO 5211 Standard Pneumatic Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve in Two Piece design. engineered for multiple ON/OFF operations in the down stream.

Size Range : 1/2" to 14" Flanged 150# (Upto 1500# On Request)

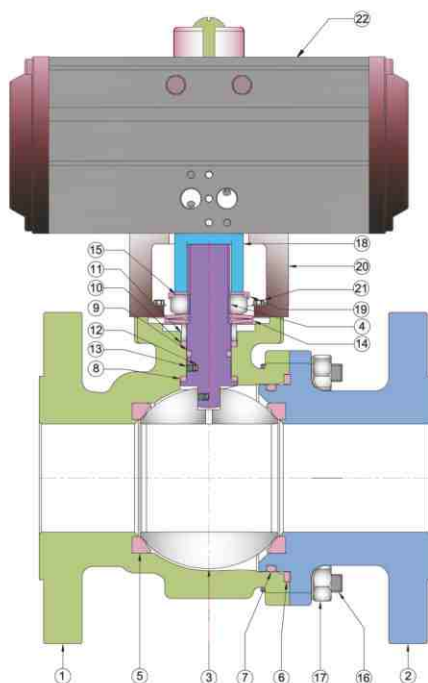
| Item                    | Type of Test             | Testing Pressure | Working Pressure | Operating Temperature |
|-------------------------|--------------------------|------------------|------------------|-----------------------|
| Actuator                | Pneumatic<br>Bubble Test | 115 PSIG         | 60 To 115 PSIG   | -20°C to 80 °C        |
| Valve Body Flanged 150# | Hydraulic                | 450 PSIG         | 315 PSIG         | Max.180 °C            |
| Valve Body Flanged 300# | Hydraulic                | 1125 PSIG        | 815 PSIG         | Max.180 °C            |

## Standard :-

Design And Manufacturing : BS EN ISO 17292  
Valve Face To Face Dimension : ASME B 16.10  
Flange Standard Conformity : ASME B 16.5 Class 150, 300  
Inspection & Testing : API 598 / FCI - 702 / BS EN 12266 - 1

## Accessories :

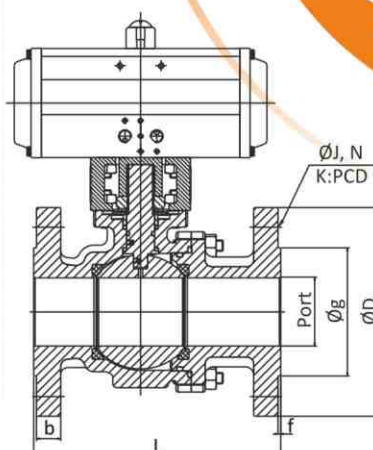
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



| No. | DESCRIPTION                           | MATERIAL                      | QTY |
|-----|---------------------------------------|-------------------------------|-----|
| 1   | Body                                  | WCB / CF8 / CF8M              | 01  |
| 2   | End Connector                         | WCB / CF8 / CF8M              | 01  |
| 3   | Ball                                  | CF8 / CF8M                    | 01  |
| 4   | Stem Pin                              | AISI S.S. 304 / 316           | 01  |
| 5   | Ball Seat                             | PTFE / CFT / GFT / PEEK / TFM | 02  |
| 6   | Body Seat                             | Grafoil                       | 01  |
| 7   | Conn., 'O' Ring                       | PTFE / CFT / GFT / PEEK / TFM | 01  |
| 8   | Stem Seat Bottom                      | PTFE / CFT / GFT / PEEK / TFM | 01  |
| 9   | Stem 'O' Ring                         | PTFE / CFT / GFT / PEEK / TFM | 01  |
| 10  | Stem Seat Top                         | Grafoil                       | 01  |
| 11  | Spacer Ring                           | S.S. 304 / 316                | 01  |
| 12  | Antistatic Spring                     | S.S. 302                      | 02  |
| 13  | Antistatic Ball                       | S.S. 304                      | 02  |
| 14  | Disc Spring                           | Spring Steel                  | 02  |
| 15  | Stem & Handle Nut                     | S.S. 304                      | 01  |
| 16  | Fitting Stud                          | H.T. / S.S. 304               | 06  |
| 17  | Fitting Nut + Spring Washer           | H.T. / S.S. 304               | 06  |
| 18  | Adaptor                               | S.S. 304                      | 01  |
| 19  | Lock Washer                           | S.S. 304                      | 01  |
| 20  | Bracket                               | CF8                           | 01  |
| 21  | Bracket Fitting Hexbolt + Spr. Washer | S.S. 304                      | 04  |
| 22  | Actuator                              | STD                           | 01  |



**FIRE SAFE  
DESIGN  
AVAILABLE**



## Dimensions :

(All Dimensions are in mm)

| Valve Model | Valve Size |        | Flanged 150# |      |   |      |       |     |       |    |       |        | Weight (Approx) Kgs | Flanged 300# |   |      |       |     |       |    |       |        |  | Weight (Approx) Kgs |
|-------------|------------|--------|--------------|------|---|------|-------|-----|-------|----|-------|--------|---------------------|--------------|---|------|-------|-----|-------|----|-------|--------|--|---------------------|
|             | MM         | Inch   | L            | b    | f | Port | Øg    | ØD  | ØJ    | N  | K:PCD | L      |                     | b            | f | Port | Øg    | ØD  | ØJ    | N  | K:PCD |        |  |                     |
| VGO - 15    | 15         | 1/2"   | 108          | 8    | 2 | 13   | 34.9  | 90  | 15.9  | 4  | 60.3  | 1.750  | 140                 | 12.7         | 2 | 13   | 34.9  | 95  | 15.9  | 4  | 66.7  | 2.650  |  |                     |
| VGO - 20    | 20         | 3/4"   | 117          | 8.9  | 2 | 19   | 42.9  | 100 | 15.9  | 4  | 69.9  | 3.100  | 152                 | 14.3         | 2 | 19   | 42.9  | 115 | 19.05 | 4  | 82.6  | 4.300  |  |                     |
| VGO - 25    | 25         | 1"     | 127          | 9.6  | 2 | 25   | 50.8  | 110 | 15.9  | 4  | 79.4  | 3.200  | 165                 | 15.9         | 2 | 25   | 50.8  | 125 | 19.05 | 4  | 88.9  | 5.100  |  |                     |
| VGO - 32    | 32         | 1.1/4" | 140          | 11.2 | 2 | 32   | 63.5  | 115 | 15.9  | 4  | 88.9  | 3.900  | 178                 | 17.5         | 2 | 32   | 63.5  | 135 | 19.05 | 4  | 98.4  | 6.600  |  |                     |
| VGO - 40    | 40         | 1.1/2" | 165          | 12.7 | 2 | 38   | 73    | 125 | 15.9  | 4  | 98.4  | 5.200  | 190                 | 19.1         | 2 | 38   | 73    | 155 | 22.2  | 4  | 114.3 | 8.900  |  |                     |
| VGO - 50    | 50         | 2"     | 178          | 14.3 | 2 | 49   | 92.1  | 150 | 19.05 | 4  | 120.7 | 7.650  | 216                 | 20.7         | 2 | 49   | 92.1  | 165 | 19.05 | 8  | 127   | 12.750 |  |                     |
| VGO - 65    | 65         | 2.1/2" | 190          | 15.9 | 2 | 62   | 104.8 | 180 | 19.05 | 4  | 139.7 | 13.500 | 241                 | 23.9         | 2 | 62   | 104.8 | 190 | 22.2  | 8  | 149.2 | 18.900 |  |                     |
| VGO - 80    | 80         | 3"     | 203          | 17.5 | 2 | 74   | 127   | 190 | 19.05 | 4  | 152.4 | 17.850 | 282                 | 27           | 2 | 74   | 127   | 210 | 22.2  | 8  | 168.3 | 25.950 |  |                     |
| VGO - 100   | 100        | 4"     | 229          | 22.3 | 2 | 100  | 157.2 | 230 | 19.05 | 8  | 190.5 | 29.100 | 305                 | 30.2         | 2 | 100  | 157.2 | 255 | 22.2  | 8  | 200   | 41.900 |  |                     |
| VGO - 125   | 125        | 5"     | 254          | 22.3 | 2 | 128  | 185.7 | 255 | 22.2  | 8  | 215.9 | --     | 381                 | 33.4         | 2 | 128  | 185.7 | 280 | 22.2  | 8  | 235   | ----   |  |                     |
| VGO - 150   | 150        | 6"     | 267          | 23.9 | 2 | 150  | 215.9 | 280 | 22.2  | 8  | 241.3 | --     | 403                 | 35           | 2 | 150  | 215.9 | 320 | 22.2  | 12 | 269.9 | ----   |  |                     |
| VGO - 200   | 200        | 8"     | 457          | 27   | 2 | 201  | 269.9 | 345 | 22.2  | 8  | 298.5 | --     | 502                 | 39.7         | 2 | 201  | 269.9 | 380 | 25.4  | 12 | 330.2 | ----   |  |                     |
| VGO - 250   | 250        | 10"    | 533.4        | 28.6 | 2 | 252  | 323.8 | 405 | 25.4  | 12 | 362   | --     | 568.4               | 46.1         | 2 | 252  | 323.8 | 445 | 28.6  | 16 | 387.4 | ----   |  |                     |
| VGO - 300   | 300        | 12"    | 609.6        | 30.2 | 2 | 303  | 381   | 485 | 25.4  | 12 | 431.8 | --     | 648                 | 49.3         | 2 | 303  | 381   | 520 | 31.75 | 16 | 450.8 | ----   |  |                     |
| VGO - 350   | 350        | 14"    | ----         | 33.4 | 2 | 334  | 412.8 | 535 | 28.6  | 12 | 476.3 | --     | ----                | 52.4         | 2 | 334  | 412.8 | 585 | 31.75 | 20 | 514.4 | ----   |  |                     |

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.

Pub. on: January, 2015 (Rev.-01)



# PNEUMATIC ROTARY ACTUATOR OPERATED Polypropylene Ball Valve

Catalogue No.  
APL / 1005



**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Polypropylene Body Ball Valve, engineered for multiple ON/OFF Operations in the Highly Corrosive Alkies and Acidic Media.

**Size Range : 1/2" to 12" Screwed / Flanged**

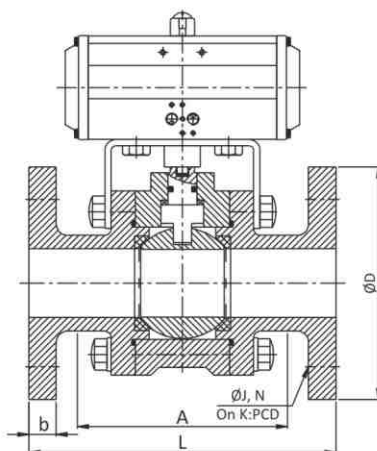
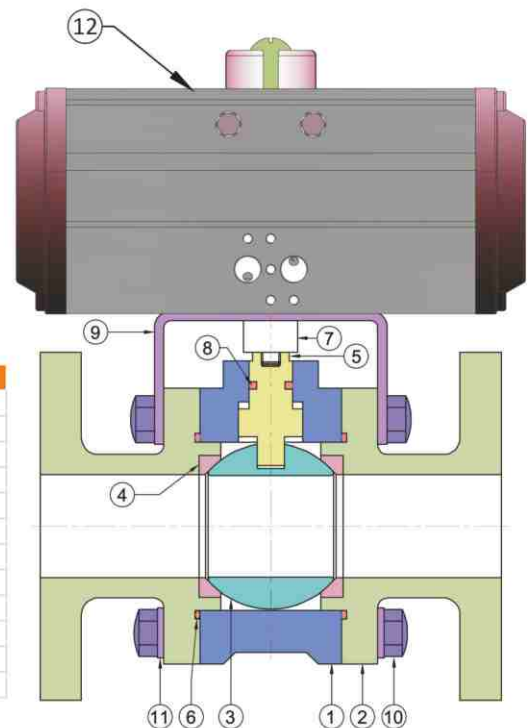
| Body    | Seat    | Temperature |
|---------|---------|-------------|
| 150 PSI | 150 PSI | 100° C      |

PVDF for Highly Acedic Media Available on Request

## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

| No. | DESCRIPTION   | MATERIAL      | QTY |
|-----|---------------|---------------|-----|
| 1   | Body          | Polypropylene | 01  |
| 2   | End Connector | Polypropylene | 02  |
| 3   | Ball          | Polypropylene | 01  |
| 4   | Ball Seat     | PTFE          | 02  |
| 5   | Stem Pin      | S.S. 304      | 01  |
| 6   | Body Seat     | PTFE          | 02  |
| 7   | Adapter       | S.S. 304      | 01  |
| 8   | Stem 'O' Ring | NBR           | 01  |
| 9   | Clamp         | S.S. 304      | 01  |
| 10  | Bolt          | S.S. 304      | 04  |
| 11  | Washer        | S.S. 304      | 04  |
| 12  | Actuator      | STD.          | 01  |



## Dimensions :

(All Dimensions are in mm)

| Valve Model    | Valve Size |        | Screwed A | Flanged |      |     |       |    |       |
|----------------|------------|--------|-----------|---------|------|-----|-------|----|-------|
|                | MM         | Inch   |           | L       | b    | ØD  | ØJ    | N  | K:PCD |
| BMW - PP - 15  | 15         | 1/2"   | 127       | 130     | 16.5 | 96  | 15.9  | 4  | 60.3  |
| BMW - PP - 20  | 20         | 3/4"   | 139       | 132     | 14.5 | 102 | 15.9  | 4  | 69.9  |
| BMW - PP - 25  | 25         | 1"     | 150       | 152     | 18.5 | 121 | 15.9  | 4  | 79.4  |
| BMW - PP - 32  | 32         | 1.1/4" | 172       | 162     | 18   | 124 | 15.9  | 4  | 88.9  |
| BMW - PP - 40  | 40         | 1.1/2" | 172       | 170     | 18.5 | 140 | 15.9  | 4  | 98.4  |
| BMW - PP - 50  | 50         | 2"     | 209       | 209     | 22.5 | 165 | 19.05 | 4  | 120.7 |
| BMW - PP - 65  | 65         | 2.1/2" | 248       | 230     | 22.5 | 184 | 19.05 | 4  | 139.7 |
| BMW - PP - 80  | 80         | 3"     | 250       | 254     | 24   | 203 | 19.05 | 4  | 152.4 |
| BMW - PP - 100 | 100        | 4"     | -         | 310     | 27   | 229 | 19.05 | 8  | 190.5 |
| BMW - PP - 150 | 150        | 6"     | -         | 477     | 28   | 305 | 22.5  | 8  | 241.3 |
| BMW - PP - 200 | 200        | 8"     | -         | 477     | 30   | 368 | 22.5  | 8  | 298.5 |
| BMW - PP - 250 | 250        | 10"    | -         | 560     | 31   | 432 | 25.4  | 12 | 362   |
| BMW - PP - 300 | 300        | 12"    | -         | 560     | 31   | 489 | 25.4  | 12 | 431.8 |

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.

Pub. on: January, 2015 (Rev.-01)



www.airaindia.com / www.airaeuro.com



# PNEUMATIC ROTARY ACTUATOR OPERATED High Pressure "WOG 3000" Ball Valve

Catalogue No.  
APL / 1003



**"aira"**

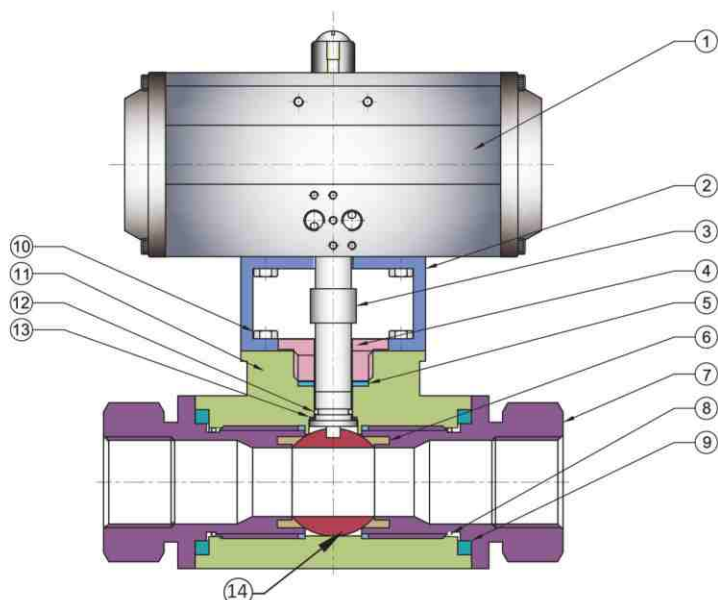
offers ISO 5211 Standard Pneumatic Actuator Operated Low Torque High Pressure Ball Valve.

Size Range : 1/2" to 2" Screwed

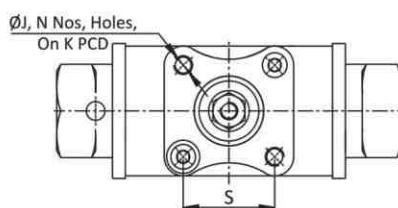
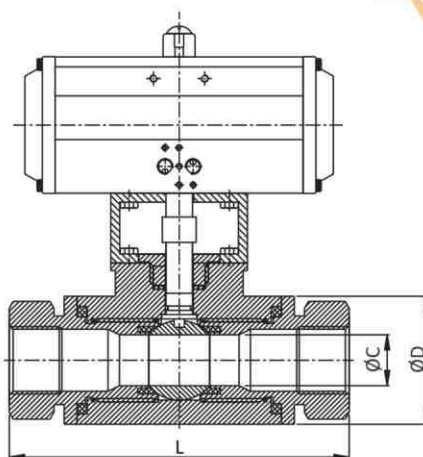
| Item       | Type of Test | Testing Pressure       | Working Pressure       |
|------------|--------------|------------------------|------------------------|
| Valve Body | Hydraulic    | 300 Kg/cm <sup>2</sup> | 200 Kg/cm <sup>2</sup> |
| Valve Body | Pneumatic    | 150 PSI                | 100 PSI                |

## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Elector Pneumatic Valve Positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



| No. | DESCRIPTION   | MATERIAL           | QTY |
|-----|---------------|--------------------|-----|
| 1   | Actuator      | Standard           | 01  |
| 2   | Bracket       | CF8                | 01  |
| 3   | Stem Pin      | S.S. 304 / 316     | 01  |
| 4   | Spacer Ring   | S.S. 304 / 316     | 01  |
| 5   | Stem Seat     | Peek / Polyacetal  | 02  |
| 6   | Ball Seat     | Peek / Polyacetal  | 02  |
| 7   | End Connector | WCB / CF8 / CF8M   | 02  |
| 8   | 'O' Ring      | NBR / EPDM / Viton | 02  |
| 9   | Body Seat     | Graphite           | 02  |
| 10  | Fitting Stud  | H.T. / S.S. 304    | 08  |
| 11  | Body          | WCB / CF8 / CF8M   | 01  |
| 12  | 'O' Ring      | EPDM / Viton       | 02  |
| 13  | Gland Packing | Peek / Polyacetal  | 01  |
| 14  | Ball          | S. S. 304 / 316    | 01  |



Before Fire



After Fire

Detail 'A'



## Dimensions :

(All Dimensions are in mm)

| Valve Model | Size |        | L   | ØC Bore | ØD   | S     | ØI       | N | PCD  | Weight (Approx.) |
|-------------|------|--------|-----|---------|------|-------|----------|---|------|------------------|
|             | MM   | Inch   |     |         |      |       |          |   |      |                  |
| WOG - 15    | 15   | 1/2"   | 98  | 12.5    | 39   | 25.4  | M5 X 0.8 | 4 | 36   | 2.530            |
| WOG - 20    | 20   | 3/4"   | 108 | 18      | 48   | 31    | M6 X 1   | 4 | 42   | 3.440            |
| WOG - 25    | 25   | 1"     | 108 | 22      | 55.5 | 31    | M6 X 1   | 4 | 42   | 4.100            |
| WOG - 32    | 32   | 1.1/4" | 133 | 32      | 76.5 | 35.3  | M6 X 1   | 4 | 51.5 | 8.150            |
| WOG - 40    | 40   | 1.1/2" | 133 | 32      | 76.5 | 35.3  | M6 X 1   | 4 | 51.5 | 7.580            |
| WOG - 50    | 50   | 2"     | 159 | 38      | 89.5 | 35.36 | M6 X 1   | 4 | 51.5 | 13.790           |

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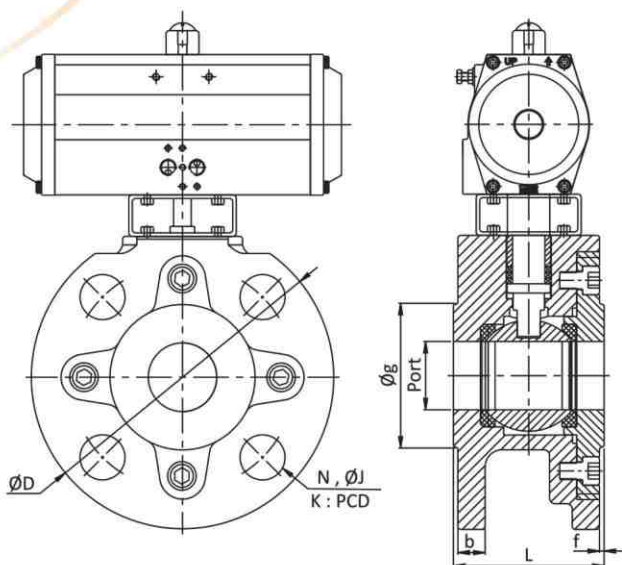
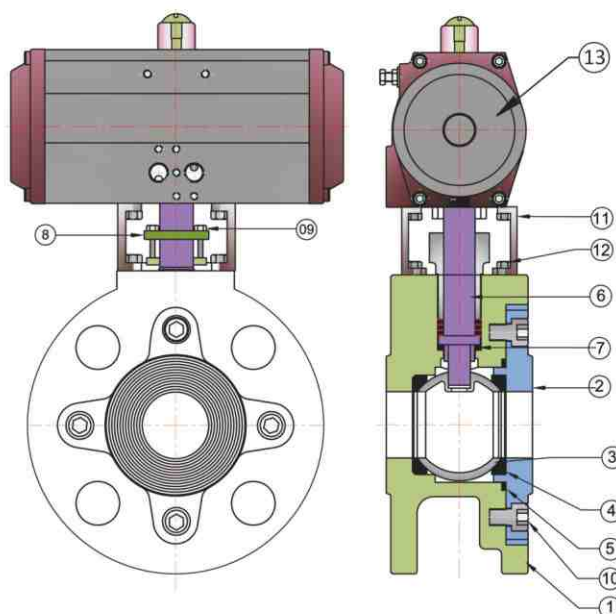
offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M Wafer Type Ball Valve.

### Ball Valve Specification

|                     |                  |
|---------------------|------------------|
| Working Pressure    | 10 Bar           |
| Working Temperature | Upto 180 °C Max. |
| Valve Rating        | 150#             |
| Leakage Class       | Class VI         |

|                              |                                        |
|------------------------------|----------------------------------------|
| Design And Manufacturing     | : ASME B 16.34 / API 6D                |
| Valve Face To Face Dimension | : As Per Manufacturer Std.             |
| Flange Standard Conformity   | : ASME B 16.5 Class 150, 300           |
| Inspection & Testing         | : API 598 / FCI - 70-2 BS EN 12266 - 1 |

- On / Off Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



| No. | DESCRIPTION                   | MATERIAL                      | QTY |
|-----|-------------------------------|-------------------------------|-----|
| 1   | Body                          | WCB / CF8 / CF8M / CF3M       | 01  |
| 2   | Connector                     | WCB / CF8 / CF8M / CF3M       | 01  |
| 3   | Ball                          | CF8 / CF8M / CF3M             | 01  |
| 4   | Ball Seal                     | PTFE / GFT / CFT / TFM / PEEK | 01  |
| 5   | Ball Seat                     | PTFE / GFT / CFT / TFM / PEEK | 02  |
| 6   | Stem Pin                      | S. S. 304                     | 02  |
| 7   | Stem Seat                     | AISI 304                      | 02  |
| 8   | Gland with Bush               | PTFE / GFT / CFT / TFM / PEEK | 01  |
| 9   | Gland Fitting Bolt            | S. S.                         | 02  |
| 10  | Allen Bolt                    | S. S.                         | 04  |
| 11  | Bracket                       | S. S.                         | 01  |
| 12  | Bracket Fitting Bolt & Washer | S. S.                         | 08  |
| 13  | Actuator                      | STD.                          | 01  |

(All Dimensions are in mm)

| Valve Model | Size |        | L    | b    | f | Port | Øg     | ØD    | ØI    | N | PCD   | Weight (Approx.) |
|-------------|------|--------|------|------|---|------|--------|-------|-------|---|-------|------------------|
|             | MM   | Inch   |      |      |   |      |        |       |       |   |       |                  |
| WTB - 25    | 25   | 1"     | 54   | 9.6  | 2 | 25   | 50.8   | 110   | 15.88 | 4 | 79.4  | 3.300            |
| WTB - 32    | 32   | 1.1/4" | 58.5 | 11.2 | 2 | 32   | 63.50  | 115   | 15.88 | 4 | 88.9  |                  |
| WTB - 40    | 40   | 1.1/2" | 63   | 12.7 | 2 | 38   | 73     | 127   | 15.88 | 4 | 98.4  | 5.250            |
| WTB - 50    | 50   | 2"     | 73   | 14.3 | 2 | 49   | 92.1   | 152   | 19.05 | 4 | 120.7 | 7.650            |
| WTB - 65    | 65   | 2.1/2" | 96   | 15.9 | 2 | 62   | 104.65 | 177.8 | 19.05 | 4 | 139.7 | 13.700           |
| WTB - 80    | 80   | 3"     | 118  | 17.5 | 2 | 74   | 127    | 190   | 19.05 | 4 | 152.4 | 15.600           |
| WTB - 100   | 100  | 4"     | 140  | 22.3 | 2 | 100  | 157.2  | 230   | 19.05 | 8 | 190.5 | 26.000           |

Pub. on: January, 2015 (Rev.-01)

# PNEUMATIC ROTARY ACTUATOR OPERATED Jacketed Ball Valve

Catalogue No.  
APL / 2010



**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve in 2 Piece Design Wafer Type JACKETED - engineered for multiple ON / OFF Operation in the down stream.

Size Range : 1" to 4"

## Ball Valve Specification

|                     |                  |
|---------------------|------------------|
| Working Pressure    | 10 Bar           |
| Working Temperature | Upto 180 °C Max. |
| Valve Rating        | 150#             |
| Leakage Class       | Class VI         |

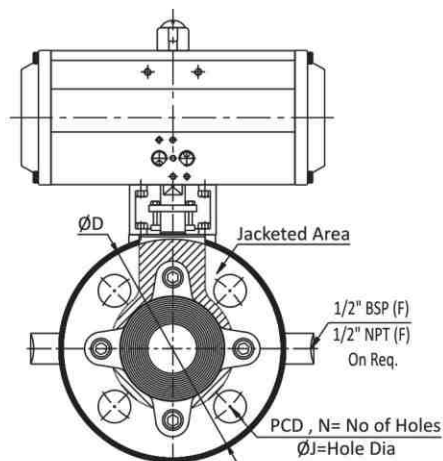
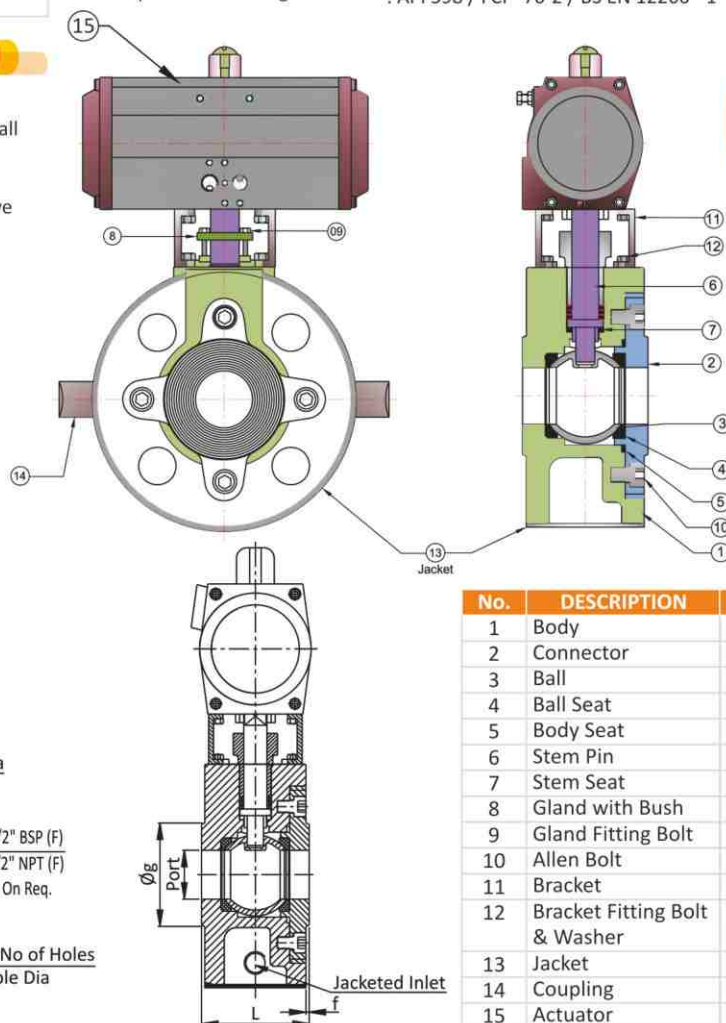
## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

## Standard :-

Design And Manufacturing : ASME B 16.34 / API 6D  
Valve Face To Face Dimension : As Per Manufacturer Std.  
Flange Standard Conformity : ASME B 16.5 Class 150  
Inspection & Testing : API 598 / FCI - 70-2 / BS EN 12266 - 1

**First Time In INDIA  
Replaceable Seals  
Jacketed Ball Valve**



| No. | DESCRIPTION                   | MATERIAL                      | QTY |
|-----|-------------------------------|-------------------------------|-----|
| 1   | Body                          | WCB / CF8 / CF8M / CF3M       | 01  |
| 2   | Connector                     | WCB / CF8 / CF8M / CF3M       | 01  |
| 3   | Ball                          | CF8 / CF8M / CF3M             | 01  |
| 4   | Ball Seat                     | PTFE / GFT / CFT / PEEK / TFM | 02  |
| 5   | Body Seat                     | PTFE / GFT / CFT / PEEK / TFM | 01  |
| 6   | Stem Pin                      | S. S. 304                     | 01  |
| 7   | Stem Seat                     | PTFE / GFT / CFT / PEEK / TFM | 04  |
| 8   | Gland with Bush               | S. S. 304                     | 01  |
| 9   | Gland Fitting Bolt            | S. S.                         | 02  |
| 10  | Allen Bolt                    | S. S.                         | 04  |
| 11  | Bracket                       | S. S.                         | 01  |
| 12  | Bracket Fitting Bolt & Washer | S. S.                         | 04  |
| 13  | Jacket                        | S. S. / M. S.                 | 01  |
| 14  | Coupling                      | S. S. / M. S.                 | 02  |
| 15  | Actuator                      | STD.                          | 01  |

## Dimensions :

(All Dimensions are in mm)

| Valve Model | Size |        | Port | L    | ØD    | Øg    | ØJ    | N | f | PCD   | Weight (Approx.) |
|-------------|------|--------|------|------|-------|-------|-------|---|---|-------|------------------|
|             | MM   | Inch   |      |      |       |       |       |   |   |       |                  |
| KAG - 25    | 25   | 1"     | 25   | 54   | 107.9 | 50.8  | 15.88 | 4 | 2 | 79.4  | 2.950            |
| KAG - 32    | 32   | 1.1/4" | 32   | 58.5 | 115   | 63.50 | 15.88 | 4 | 2 | 88.9  | 3.550            |
| KAG - 40    | 40   | 1.1/2" | 38   | 63   | 127   | 73    | 15.88 | 4 | 2 | 98.4  | 4.500            |
| KAG - 50    | 50   | 2"     | 49   | 73   | 152.4 | 92.1  | 19.05 | 4 | 2 | 120.7 | 8.400            |
| KAG - 65    | 65   | 2.1/2" | 62   | 96   | 177.8 | 104.8 | 19.05 | 4 | 2 | 139.7 | 10.900           |
| KAG - 80    | 80   | 3"     | 74   | 118  | 190.5 | 127   | 19.05 | 4 | 2 | 152.4 | 14.800           |
| KAG - 100   | 100  | 4"     | 100  | 140  | 230   | 157.2 | 19.05 | 8 | 2 | 190.5 | 23.900           |

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.

Pub. on: January, 2015 (Rev.-01)



# PNEUMATIC ROTARY ACTUATOR OPERATED FEP / PFA Lined Ball Valve

Catalogue No.  
APL / 2028



**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M / S. G. Iron / D. I. FEP / PFA Lined Ball Valve In 2 pc. Design.

Size Range : 1" to 4" Flanged

## Standard :-

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Design And Manufacturing     | : BS EN ISO 17292 : 2004 (BS 5351)                                          |
| Valve Face To Face Dimension | : ANSI B 16.10 / DIN 3202 / BSEN 558-1/2                                    |
| Flange Standard Conformity   | : ASME B 16.5 150#                                                          |
| Inspection & Testing         | : BS EN 12266 - 1 & 2 ( 2003 ) API - 598                                    |
| Top Flange Drilling          | : ASA 150# / DIN 2632 & 2633 / BSEN 10 Table D, E, F ( Customer Specified ) |

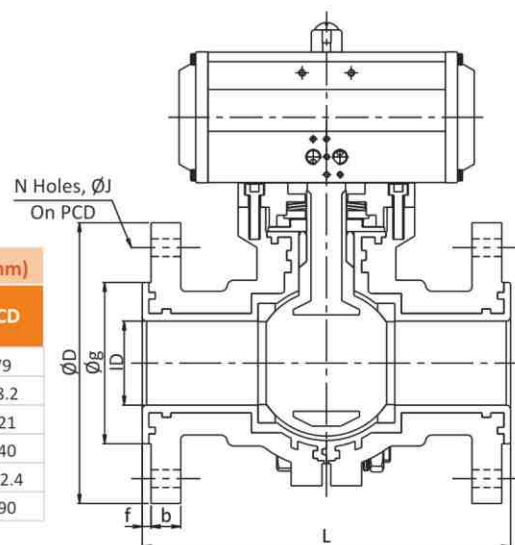
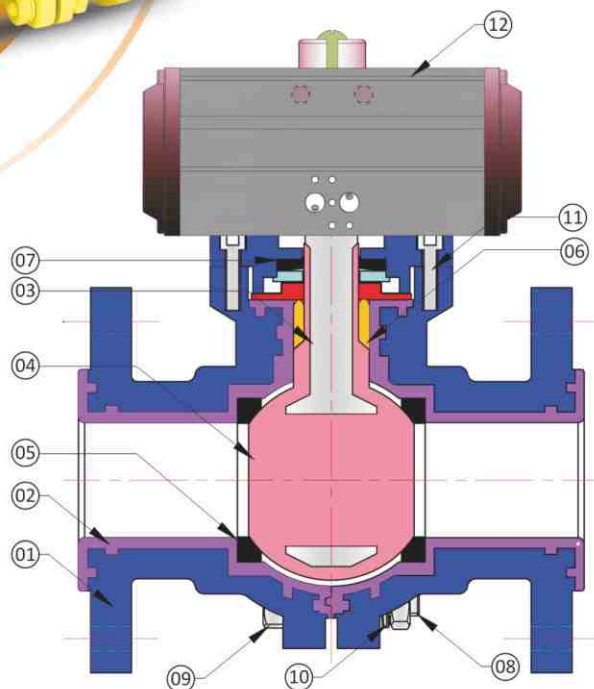
## TEST PRESSURE

|               |                             |
|---------------|-----------------------------|
| Pressure Test | As Per Customer Requirement |
| Spark Test    | 15 KV D2 API 598            |

## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

| No. | DESCRIPTION     | MATERIAL                              |
|-----|-----------------|---------------------------------------|
| 1   | Body            | WCB / CF8 / CF8M / S. G. Iron / D. I. |
| 2   | Body Molding    | FEP / PFA                             |
| 3   | Ball with Shaft | WCB / CF8                             |
| 4   | Ball Molding    | FEP / PFA                             |
| 5   | Ball Seal       | PTFE / GFT / CFT / PEEK / TFM         |
| 6   | Shaft Bush      | PTFE / GFT / CFT / PEEK / TFM         |
| 7   | Packing Washer  | Spring Steel                          |
| 8   | Bolt Plate      | S. S.                                 |
| 9   | Nut             | S. S.                                 |
| 10  | Washer          | S. S.                                 |
| 11  | L. N. Bolt      | S. S.                                 |
| 12  | Actuator        | STD.                                  |



## Dimensions :

(All Dimensions are in mm)

| Valve Model | Size |        | ID   | L     | b    | f   | Øg    | ØD     | N  | ØJ   | PCD   |
|-------------|------|--------|------|-------|------|-----|-------|--------|----|------|-------|
|             | MM   | Inch   |      |       |      |     |       |        |    |      |       |
| FELB - 25   | 25   | 1"     | 24   | 130.5 | 12.7 | 3.5 | 55    | 108    | 04 | 16   | 79    |
| FELB - 40   | 40   | 1.1/2" | 38   | 167   | 13.5 | 3   | 73    | 127    | 04 | 15   | 98.2  |
| FELB - 50   | 50   | 2"     | 49   | 181   | 18   | 4   | 92    | 152.5  | 04 | 18.5 | 121   |
| FELB - 65   | 65   | 2.1/2" | 61.8 | 206   | 21   | 4   | 104.5 | 177.75 | 04 | 19   | 140   |
| FELB - 80   | 80   | 3"     | 74   | 207   | 22   | 5.5 | 126   | 190    | 04 | 19   | 152.4 |
| FELB - 100  | 100  | 4"     | 94   | 226   | 22   | 5   | 158   | 228.5  | 08 | 19   | 190   |

Note.: Big Size Also Available On Request.

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Pub. on: January, 2015 (Rev.-01)

# PNEUMATIC ROTARY ACTUATOR OPERATED UPVC Ball Valve

Catalogue No.  
APL / 2029

**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated UPVC Ball Valve is made with precision turning and grinding to ensure that it's true roundness and smoothness is achieved. This provides for lower torque requirement and ease of handling. True union design provides for tight shut - off. These valves are most suited for water treatment and chlorination applications. The Socket and Screwed joint available.

Size Range : 1/2" to 3"

## Advantages

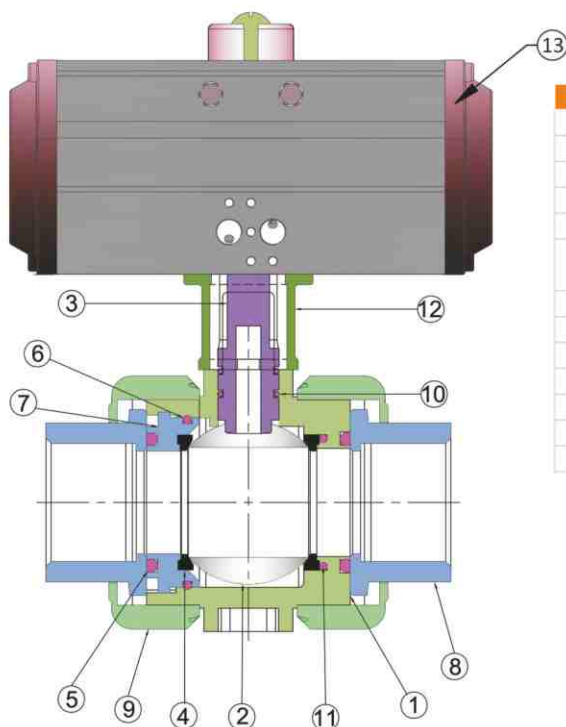
- NSF listed and material meet drinking water standard.
- Smooth opening and closing thanks to a lower torque.
- 100% pure virgin material, CaCO<sub>3</sub> free (Chalk).
- UV resistant power added.
- 100% pressure testing before leaving the factory.
- Can be assembled with Pneumatic Actuators.

## Ball Valve Specification

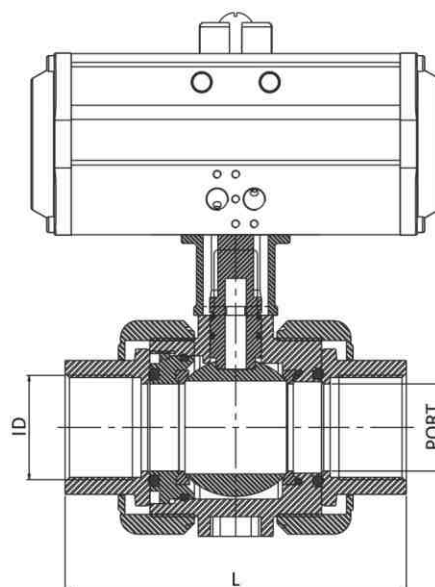
|                     |                      |
|---------------------|----------------------|
| Working Pressure    | 7 Kg/cm <sup>2</sup> |
| Working Temperature | Upto 80 °C Max.      |
| Ends                | Screwed End          |

## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



| No. | DESCRIPTION             | MATERIAL            | QTY |
|-----|-------------------------|---------------------|-----|
| 1   | Body                    | UPVC                | 01  |
| 2   | Ball                    | UPVC                | 01  |
| 3   | Stem                    | UPVC                | 01  |
| 4   | Ball Seat               | PTFE / EPDM / VITON | 02  |
| 5   | Body - 'O' Ring         | NBR                 | 02  |
| 6   | Body Connector 'O' Ring | NBR                 | 01  |
| 7   | Body Connector          | UPVC                | 01  |
| 8   | Connector               | UPVC                | 02  |
| 9   | Connector Nut           | UPVC                | 02  |
| 10  | Stem 'O' Ring           | NBR                 | 01  |
| 11  | Body 'O' Ring           | NBR                 | 01  |
| 12  | Bracket                 | CF8 / CF8M          | 01  |
| 13  | Actuator                | STD.                | 01  |



Dimensions : (All Dimensions are in mm)

| Valve Model   | Size |        | L      | ID    | PORT |
|---------------|------|--------|--------|-------|------|
|               | MM   | Inch   |        |       |      |
| U2B - 15 - SD | 15   | 1/2"   | 108.50 | 21.23 | 15   |
| U2B - 20 - SD | 20   | 3/4"   | 114.50 | 26.57 | 20   |
| U2B - 25 - SD | 25   | 1"     | 128    | 33.27 | 25   |
| U2B - 32 - SD | 32   | 1.1/4" | 142    | 42    | 32   |
| U2B - 40 - SD | 40   | 1.1/2" | 160    | 48    | 40   |
| U2B - 50 - SD | 50   | 2"     | 174    | 60.17 | 50   |
| U2B - 65 - SD | 65   | 2.1/2" | 241    | 72.85 | 63   |
| U2B - 80 - SD | 80   | 3"     | 270    | 270   | 75   |

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.

Pub. on: January, 2015 (Rev.-01)



# PNEUMATIC ROTARY ACTUATOR OPERATED Incolan Spring Loaded Trunnion Mounted Ball Valve

Catalogue No.  
APL / 2030



**"aira"**

offers Scotch and Yoke Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M Ball Valve In Two Piece Design.



**Size Range : 6" to 16" Flanged End 150#**

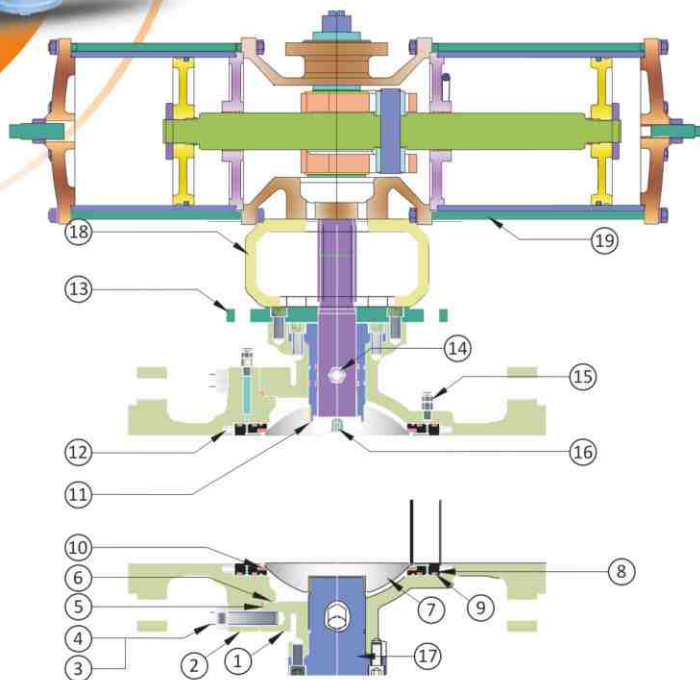
## Standard :-

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Design And Manufacturing     | : BS EN ISO 17292 : 2004 (BS 5351)                                          |
| Valve Face To Face Dimension | : ANSI B 16.10 / DIN 3202 / BSEN 558-1/2                                    |
| Flange Standard Conformity   | : ASME B 16.5 150#                                                          |
| Inspection & Testing         | : BS EN 12266 - 1 & 2 ( 2003 )                                              |
| Top Flange Drilling          | : ASA 150# / DIN 2632 & 2633 / BSEN 10 Table D, E, F ( Customer Specified ) |

## TEST PRESSURE

| TESTING                 | BODY                  | SEAT                  |
|-------------------------|-----------------------|-----------------------|
| Hydraulic               | 20 KG/CM <sup>2</sup> | 11 KG/CM <sup>2</sup> |
| Pneumatic Seat Pressure |                       | 6 KG/CM <sup>2</sup>  |
| Spark Test - 15 KV D.C. |                       |                       |

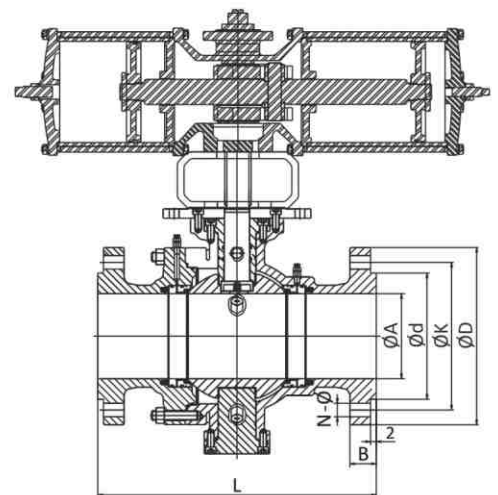
**Note : Upto 1500 Class available on request.**



## Accessories :

- On/off Indicator
- Namur Standard solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil-request)
- Pneumatic & Electro - Pneumatic Valve Positioner
- Decutchable Manual Over -ride
- Limit Switches for On/off indication at Panel board
- Filter+Regulator Combination with Pressure Gauge
- Air Lock Valve

| No. | DESCRIPTION        | MATERIAL                      |
|-----|--------------------|-------------------------------|
| 1   | Body               | WCB / CF8 / CF8M              |
| 2   | Bonnet             | WCB / CF8 / CF8M              |
| 3   | Bolts              | A 193 B7                      |
| 4   | Nuts               | A 194 2H                      |
| 5   | Gasket             | S.S. 304 / Flexible graphite  |
| 6   | O - Ring           | Viton                         |
| 7   | Ball               | CF8 / CF8M                    |
| 8   | Seat Retainer      | A 105                         |
| 9   | Fire Safe Ring     | Flexible graphite             |
| 10  | Seal Ring          | PTFE / GFT / CFT / TFM / PEEK |
| 11  | Stem Bearing       | S. S. 304 + PTFE              |
| 12  | Spring             | S. S.                         |
| 13  | Connection Flange  | A29 1025                      |
| 14  | Grease Valve       | Assembly                      |
| 15  | Grease Valve       | Assembly                      |
| 16  | Anti-static Spring | 17 - 7 PH                     |
| 17  | Trunnion           | A 105                         |
| 18  | Bracket            | CF8 / CF8M                    |
| 19  | Actuator           | STD.                          |



## Dimensions :

(All Dimensions are in mm)

| Valve Model | Size | ØA   | L          | ØD  | ØK  | Ød    | b     | N    | ØJ |
|-------------|------|------|------------|-----|-----|-------|-------|------|----|
|             | MM   | Inch |            |     |     |       |       |      |    |
| SRE-150-FD  | 150  | 6"   | On Request |     |     |       |       |      |    |
| SRE-2000-FD | 200  | 8"   | 201        | 457 | 345 | 298.5 | 269.9 | 29   | 8  |
| SRE-250-FD  | 250  | 10"  | 252        | 533 | 405 | 362   | 323.8 | 30.6 | 12 |
| SRE-300-FD  | 300  | 12"  | 303        | 610 | 485 | 431.8 | 381   | 32.2 | 12 |
| SRE-350-FD  | 350  | 14"  | 334        | 686 | 535 | 476.3 | 412.8 | 35.4 | 12 |
| SRE-400-FD  | 400  | 16"  | 385        | 762 | 595 | 539.8 | 469.9 | 37   | 16 |

**Note : Big Sizes Available On Request.**

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.

Pub. on: January, 2015 (Rev.-01)

# PNEUMATIC ROTARY ACTUATOR OPERATED CW Series "C" Way 3 Way Ball Valve

Catalogue No.  
APL / 2008



**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated Investment Casting WCB / CF8 / CF8M / CF3M in 2 Piece Design "C" Way Ball Valve - engineered for multiple ON / OFF Operation in the down stream.

Size Range : 1/2" to 8" Screwed / Flanged

## Ball Valve Specification

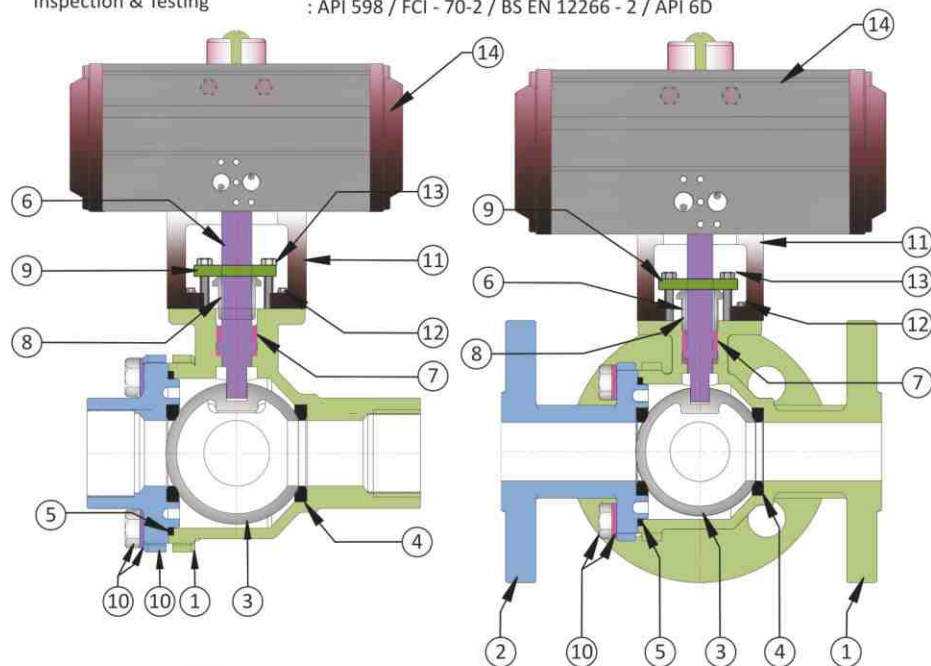
| Type Of Valve Body & Ball | Full Port On / Off Type |
|---------------------------|-------------------------|
| Working Pressure          | 10 Bar                  |
| Working Temperature       | Upto 180 °C Max.        |
| Pressure Rating           | 150# / 300#             |
| Leakage Class             | Class VI                |
| Working Fluid             | Air, Water & Oil        |

## Accessories :

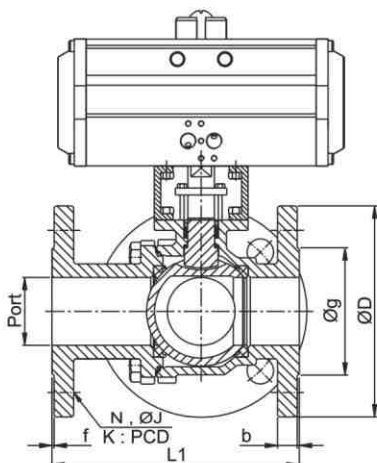
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- I/P Transducer (Converter)
- Pneumatic valve positioner
- Electro Pneumatic Valve Positioner
- Decutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

## Standard :-

Design And Manufacturing : ASME B 16.34 / API 6D / BS EN ISO 17292  
Valve Face To Face Dimension : As Per Manufacturing / ASME B 16.1  
Flange Standard Conformity : ASME B 16.5 Class 150  
Inspection & Testing : API 598 / FCI - 70-2 / BS EN 12266 - 2 / API 6D



| No. | DESCRIPTION                              | MATERIAL                      | QTY |
|-----|------------------------------------------|-------------------------------|-----|
| 1   | Body                                     | WCB / CF8 / CF8M              | 01  |
| 2   | End Connection                           | WCB / CF8 / CF8M              | 01  |
| 3   | Ball                                     | CF8 / CF8M                    | 01  |
| 4   | Ball Seat                                | PTFE / GFT / CFT / TFM / PEEK | 02  |
| 5   | Body Seat                                | PTFE / GFT / CFT / TFM / PEEK | 01  |
| 6   | Stem Pin                                 | S. S. 304 / 316               | 01  |
| 7   | Stem Seat                                | PTFE / GFT / CFT / TFM / PEEK | 05  |
| 8   | Gland Bush                               | S. S. 304 / 316               | 01  |
| 9   | Gland                                    | CF8 / CF8M                    | 01  |
| 10  | Hex Bolt + Spring Washer                 | S. S. 304                     | 04  |
| 11  | Bracket                                  | S. S. 304                     | 01  |
| 12  | Bracket Fitting Hex Bolt + Spring Washer | S. S. 304                     | 04  |
| 13  | Gland Hexbolt                            | S. S. 304                     | 02  |
| 14  | Actuator                                 | STD                           | 01  |



## Dimensions :

(All Dimensions are in mm)

| Valve Model | Size |        | Port | L1  | ØD  | Øg    | b    | f | N | ØJ    | PCD   | Weigh Approx. |
|-------------|------|--------|------|-----|-----|-------|------|---|---|-------|-------|---------------|
|             | MM   | Inch   |      |     |     |       |      |   |   |       |       |               |
| CWP - 15    | 15   | 1/2"   | 13   | 108 | 90  | 34.9  | 8.5  | 2 | 4 | 15.9  | 60.3  | 1.900         |
| CWP - 20    | 20   | 3/4"   | 19   | 117 | 100 | 42.9  | 8.9  | 2 | 4 | 15.9  | 69.9  | 3.100         |
| CWP - 25    | 25   | 1"     | 25   | 127 | 110 | 50.8  | 9.6  | 2 | 4 | 15.9  | 79.4  | 4.900         |
| CWP - 40    | 40   | 1.1/2" | 38   | 165 | 125 | 73    | 12.7 | 2 | 4 | 15.9  | 98.4  | 8.850         |
| CWP - 50    | 50   | 2"     | 49   | 178 | 150 | 92.1  | 14.3 | 2 | 4 | 19.05 | 120.7 | 10.750        |
| CWP - 65    | 65   | 2.1/2" | 64   | 190 | 180 | 104.8 | 15.9 | 2 | 4 | 19.05 | 139.7 | 25.350        |
| CWP - 80    | 80   | 3"     | 74   | 203 | 190 | 127   | 17.5 | 2 | 4 | 19.05 | 152.4 | ---           |
| CWP - 100   | 100  | 4"     | 98   | 305 | 230 | 157.2 | 22.3 | 2 | 8 | 19.05 | 190.5 | ---           |
| CWP - 125   | 125  | 5"     | 127  | 356 | 255 | 185.7 | 22.3 | 2 | 8 | 22.2  | 215.9 | ---           |
| CWP - 150   | 150  | 6"     | 150  | 394 | 280 | 215.9 | 23.9 | 2 | 8 | 22.2  | 241.3 | ---           |
| CWP - 200   | 200  | 8"     | 201  | 600 | 345 | 269.9 | 27   | 2 | 8 | 22.2  | 298.5 | ---           |

Note.: 300 & 600# Also Available

Note.: Big Sizes Also Available On Request.

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.

Pub. on: January, 2015 (Rev.-01)



# PNEUMATIC ROTARY ACTUATOR OPERATED 3 Way / 4 Way / 5 Way Ball Valve

Catalogue No.  
AEA / 1007



**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated "3, 4 & 5 Way" Design Investment Casting CF8 / CF8M / WCB Ball Valve, engineered for multiple Diverting / Mixing Operations in the down stream. TYPE : "T" . PORT / "L" . PORT / "X" . PORT In Full Bore / Reduce Bore

Size Range : 1/2" to 4" Screwed / Flanged / Triclover End

## Features :

- Body & End are Investment Casting
- Self adjusting stem packing
- Available in 3 Way / 4 Way / 5 Way L - Port / T - Port / X - Port
- 4 Piece Ball Seats
- Blow - Out Proof Stem Design / Anti Blow - Out Proof Stem Design
- 100% air tested under water at 80 - 100 PSI

## Accessories :

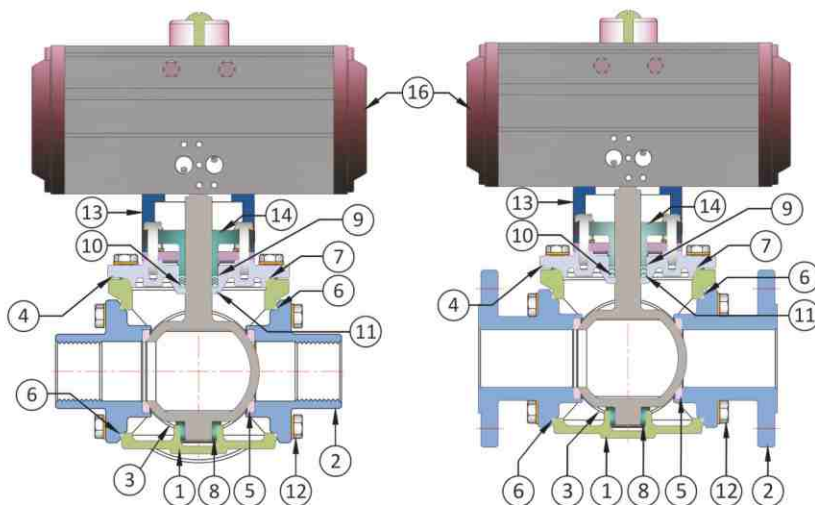
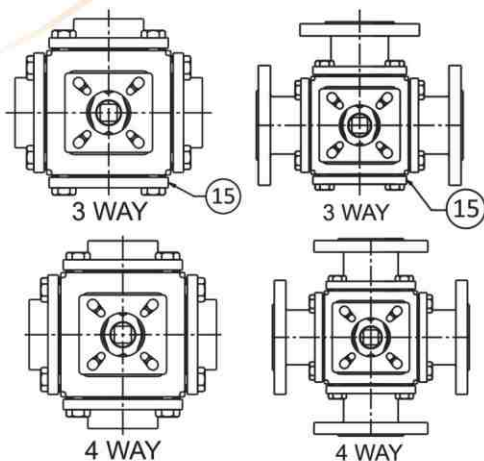
- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve

## Standard :-

Design And Manufacturing : ASME B 16.34 / BS EN 12516 - 1  
Valve Face To Face Dimension : As Per Manufacturing  
Flange Standard Conformity : ASME B 16.5 Class 150  
Inspection & Testing : API 598 / FCI - 70-2 / BS EN 12266 - 1  
ISO 5208

## Ball Valve Specification

|                   |                                            |
|-------------------|--------------------------------------------|
| Pressure Rating   | ASME 150 / ASME 300<br>PN 16, PN 25, PN 40 |
| Temperature Range | Upto -25°C to 180°C Max.                   |



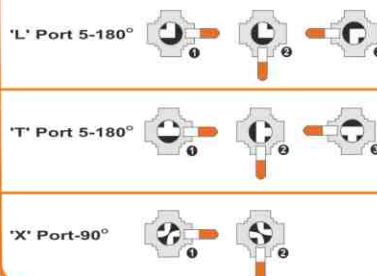
## FLOW PATTERNS

### 3-WAY



## FLOW PATTERNS

### 4-WAY

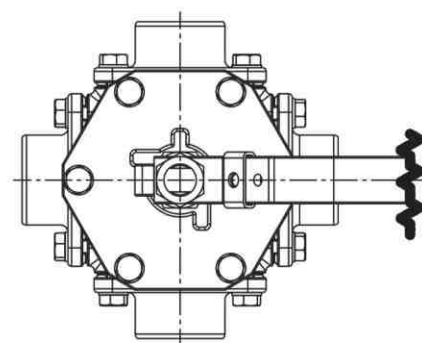
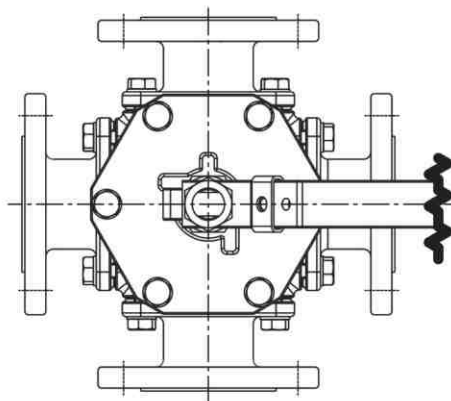
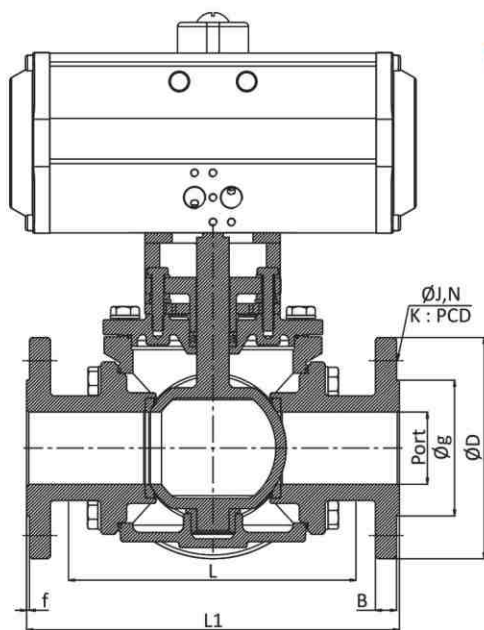


| No. | DESCRIPTION         | MATERIAL                      | QTY |
|-----|---------------------|-------------------------------|-----|
| 1   | Body                | WCB / CF8 / CF8M              | 01  |
| 2   | Connector           | CF8 / CF8M                    | 04  |
| 3   | Ball                | CF8 / CF8M                    | 01  |
| 4   | Top Cover           | CF8 / CF8M                    | 01  |
| 5   | Ball Seat           | PTFE / GFT / CFT / PEEK / TFM | 04  |
| 6   | Body Seat           | PTFE / GFT / CFT / PEEK / TFM | 04  |
| 7   | Top Cover Seat      | PTFE / GFT / CFT / PEEK / TFM | 01  |
| 8   | T - Bush            | S. S. / Field                 | 01  |
| 9   | U - Seat            | PTFE / GFT / CFT / PEEK / TFM | 01  |
| 10  | V - Seat            | PTFE / GFT / CFT / PEEK / TFM | 01  |
| 11  | Base V - Seat       | PTFE / GFT / CFT / PEEK / TFM | 01  |
| 12  | Stud + Nut + Washer | S. S. 304                     | 16  |
| 13  | Bracket             | S. S. 304                     | 02  |
| 14  | Gland With Bush     | CF8 / CF8M                    | 01  |
| 15  | Blind Cap           | CF8 / CF8M                    | 01  |
| 16  | Actuator            | STD.                          | 01  |

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## Screwed / Flanged

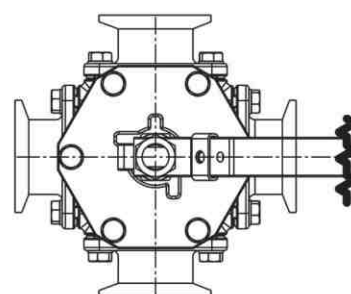
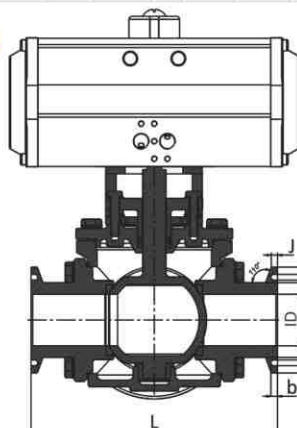


### Dimensions :

(All Dimensions are in mm)

| Valve Model | Valve Size |        | Screwed |        | Flanged 150# |      |   |      |       |      |    |       |       | Weight (Approx) | Flanged 300# |       |      |      |       |      |       |      |       | K:PCD |
|-------------|------------|--------|---------|--------|--------------|------|---|------|-------|------|----|-------|-------|-----------------|--------------|-------|------|------|-------|------|-------|------|-------|-------|
|             | MM         | Inch   | L       | Weight | L1           | b    | f | Port | Øg    | ØD   | N  | ØJ    | K:PCD |                 | L1           | b     | f    | Port | Øg    | ØD   | ØJ    | N    |       |       |
|             | SUZ-503-15 | 15     | 1/2"    | 104    | 2.250        | 152  | 8 | 2    | 11    | 34.9 | 90 | 4     | 15.9  | 60.3            | 4.440        | 150   | 12.7 | 2    | 15    | 34.9 | 95    | 15.9 | 4     | 66.7  |
| SUZ-503-20  | 20         | 3/4"   | 111     | 3.050  | 165          | 8.9  | 2 | 20   | 42.9  | 100  | 4  | 15.9  | 69.9  | 5.800           | 177          | 14.3  | 2    | 19   | 42.9  | 115  | 19.05 | 4    | 82.6  |       |
| SUZ-503-25  | 25         | 1"     | 130     | 4.350  | 192          | 9.6  | 2 | 25   | 50.8  | 110  | 4  | 15.9  | 79.4  | 7.650           | 202          | 15.9  | 2    | 25   | 50.8  | 125  | 19.05 | 4    | 88.9  |       |
| SUZ-503-32  | 32         | 1.1/4" | 138     | 5.050  | 208          | 11.2 | 2 | 32   | 63.5  | 115  | 4  | 15.9  | 88.9  | —               | 208          | 17.5  | 2    | 32   | 63.5  | 135  | 19.05 | 4    | 98.4  |       |
| SUZ-503-40  | 40         | 1.1/2" | 158     | 10.100 | 220          | 12.7 | 2 | 38   | 73    | 125  | 4  | 15.9  | 98.4  | 15.600          | 234          | 19.1  | 2    | 38   | 73    | 155  | 22.2  | 4    | 114.3 |       |
| SUZ-503-50  | 50         | 2"     | 190     | 16.500 | 253.5        | 14.3 | 2 | 49   | 92.1  | 150  | 4  | 19.05 | 120.7 | 26.450          | 274          | 18.70 | 2    | 49   | 92.1  | 165  | 19.05 | 8    | 127   |       |
| SUZ-503-65  | 65         | 2 1/2" | 304     | ----   | 295          | 15.9 | 2 | 64   | 104.8 | 180  | 4  | 19.05 | 139.7 | 35.200          | 330          | 23.9  | 2    | 62   | 104.8 | 190  | 22.2  | 8    | 149.2 |       |
| SUZ-503-80  | 80         | 3"     | 320     | ----   | 306          | 17.5 | 2 | 77   | 127   | 190  | 4  | 19.05 | 152.4 | 46.300          | 332          | 27    | 2    | 74   | 127   | 210  | 22.2  | 8    | 168.3 |       |
| SUZ-503-100 | 100        | 4"     | 368     | ----   | 371          | 22.3 | 2 | 98   | 157.2 | 230  | 8  | 19.05 | 190.5 | 80.050          | 395          | 30.2  | 2    | 100  | 157.2 | 255  | 22.2  | 8    | 200   |       |
| SUZ-503-125 | 125        | 5"     | —       | ----   | —            | 22.3 | 2 | 125  | 185.7 | 255  | 8  | 22.2  | 215.9 | 82.100          | —            | 33.4  | 2    | 125  | 185.7 | 280  | 22.2  | 8    | 235   |       |
| SUZ-503-150 | 150        | 6"     | --      | ----   | 428          | 23.9 | 2 | 150  | 215.9 | 280  | 8  | 22.2  | 241.3 | ----            | 468          | 35    | 2    | 150  | 215.9 | 320  | 22.2  | 12   | 269.9 |       |

### Triclover End



### Dimensions :

(All Dimensions are in mm)

| Valve Model    | Valve Size |        | L   | ØE   | ØG   | ØH   | ID   | OD   | J   | B   |
|----------------|------------|--------|-----|------|------|------|------|------|-----|-----|
|                | MM         | inch   |     |      |      |      |      |      |     |     |
| SUZ - 503 T 15 | 15         | 1/2"   | 133 | 34   | 25.5 | 29.5 | 12.5 | 18.5 | 2.8 | 1.5 |
| SUZ - 503 T 20 | 20         | 3/4"   | 140 | 34   | 25.5 | 29.5 | 17   | 23   | 2.8 | 1.5 |
| SUZ - 503 T 25 | 25         | 1"     | 160 | 50.5 | 42   | 46   | 24   | 31   | 2.8 | 1.5 |
| SUZ - 503 T 40 | 40         | 1.1/2" | 183 | 50.5 | 42   | 46   | 32   | 41   | 2.8 | 1.5 |
| SUZ - 503 T 50 | 50         | 2"     | 217 | 64   | 55.5 | 59.5 | 42.5 | 52.5 | 2.8 | 1.5 |

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Pub. on: January, 2015 (Rev.-01)



# PNEUMATIC ROTARY ACTUATOR OPERATED 3 Way / 4 Way Ball Valve

Catalogue No.  
APL / 2006



**"aira"**

offers ISO 5211 Standard Pneumatic Rotary Actuator Operated "3 Way - 4 Way" Design CF8 / CF8M / WCB Ball Valve, engineered for multiple Diverting / Mixing Operations in the down stream. TYPE : "T" . PORT / "L" . PORT / "X" . PORT In Full Bore / Reduce Bore

Size Range : 6" to 12" Flange End

## Standard :-

Design And Manufacturing : ASME B 16.34 / API 6D  
Valve Face To Face Dimension : As Per Manufacturing  
Flange Standard Conformity : ASME B 16.5 Class 150, 300  
Inspection & Testing : API 598 / BS EN 12266 - 1

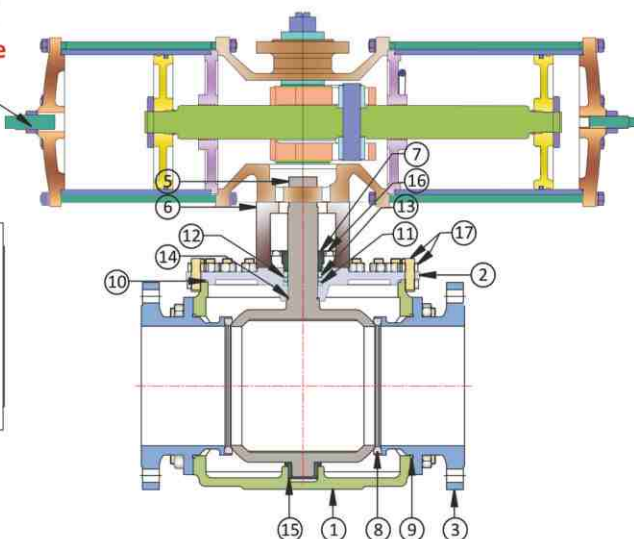
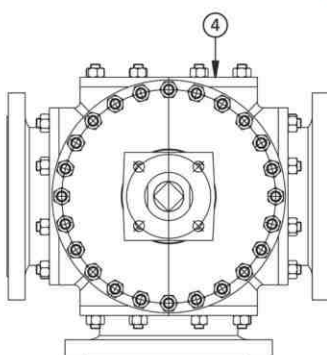
## Ball Valve Specification

Working Pressure : ASME B16.5 150 / 300  
Working Temperature : Upto -25°C to 180 °C Max.

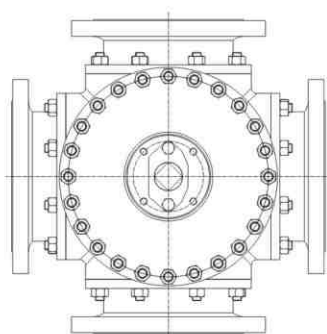
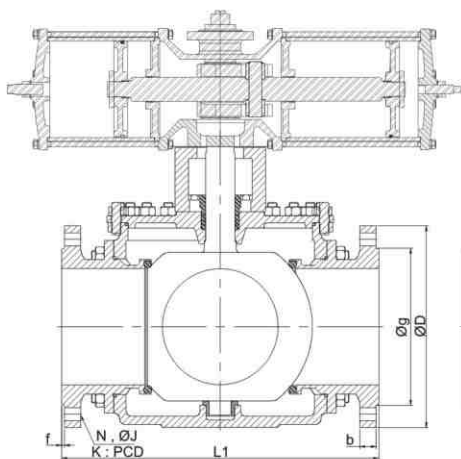
**Note.: High Temperature available on request.**

## Accessories :

- On / OFF Indicator
- NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil - on request)
- Pneumatic & Electro Pneumatic valve positioner
- Declutchable Manual Over - Ride
- Limit Switch for On/ Off Indication at Panel board
- Filter + Regulator Combination with Pressure Gauge
- Air Lock Valve



| No. | DESCRIPTION                  | MATERIAL         |
|-----|------------------------------|------------------|
| 1   | Body                         | WCB / CF8 / CF8M |
| 2   | Top Cover                    | WCB / CF8 / CF8M |
| 3   | Flange End                   | WCB / CF8 / CF8M |
| 4   | Blind End                    | WCB / CF8 / CF8M |
| 5   | Ball                         | CF8 / CF8M       |
| 6   | Bracket                      | CF8 / CF8M       |
| 7   | Gland                        | CF8 / CF8M       |
| 8   | Ball Seat                    | PTFE             |
| 9   | Body Gasket                  | PTFE             |
| 10  | Top Cover Gasket             | PTFE             |
| 11  | Base Seal                    | PTFE             |
| 12  | U - Seal                     | PTFE             |
| 13  | V - Seal                     | PTFE             |
| 14  | 'O' - Ring                   | Viton            |
| 15  | Bush                         | CFT / PTFE       |
| 16  | Bracket & Gland Fitting Bolt | M. S. / S.S.     |
| 17  | Fitting Stud + Nut           | M. S.            |
| 18  | Actuator                     | STD.             |



## Dimensions :

(All Dimensions are in mm)

| Valve Model   | Size                      |      | BORE | L1  | ØD  | b    | Øg    | f | ØJ   | N  | PCD    |
|---------------|---------------------------|------|------|-----|-----|------|-------|---|------|----|--------|
|               | MM                        | Inch |      |     |     |      |       |   |      |    |        |
| SUZ-403-F-150 | 150                       | 6"   | 150  | 437 | 280 | 23.9 | 275.9 | 2 | 22.2 | 8  | 241.3  |
| SUZ-403-F-200 | 200                       | 8"   | 200  | 538 | 345 | 28   | 268.7 | 2 | 22.2 | 12 | 298.5  |
| SUZ-403-F-250 | 250                       | 10"  | 250  | 662 | 405 | 28.6 | 323.8 | 2 | 25.4 | 12 | 362.00 |
| SUZ-403-F-300 | 300 (R/Bore) 12" (R/Bore) |      | 250  | 662 | 485 | 30.2 | 381   | 2 | 25.4 | 12 | 431.8  |

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.

Pub. on: January, 2015 (Rev.-01)



Mfg. & Mkt by :  
**aira Euroautomation pvt. ltd.**

ISO 9001:2008 Certified Co.

Ahmedabad-382 405, INDIA

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