





ISO 5211 Standard

STAINLESS STEEL Double Acting Pneumatic Rotary Actuator



Introduced for the st time in India

Made in India 316 stainless steel actuators and accessories























Mfg. & Mkt by:

aira Euroautomation pvt. ltd.



We welcome and thank you for referring out detailed catalogue.

aira is know all over continents as a manufacturer of quality products - Ball Valves, Butterfly Valves, Plug Valves, & Control On / Off Valves with Pneumatic Actuators for Pharma, Oil & Gas, Steel, Paper, Water, Chemical and all type of processing industries.

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.

has expanding business into foreign markets specially GCC, UAE, Asian & African countries. This is because increase its customer base and revenue, leading to overall growth and success. Now foreign users come to know and believe in the services provided by the aira. Along with the same, it also helps to reach a large number of users thereby leading to the increase their business.

Being and ISO 9001 BVQI certified company has put aira in fore front. Out motto is "Value the customer" and "Superior product", one among the best in the world.

Our Quality

- In- House full scale testing facility.
- Lean manufacturing practices
- Certified by: ISO 9001: 2015 (BVQI LONDON), CE, ATEX, CIMFR, BIS, PESO, SIL 3, IBR
- API 609, API 6D

Our Commitment

- To understand customer's need first before proposing our products.
- To keep on providing competitive rate's by adapting to continuous process improvement, without compromising on quality.
- To provide continuous support to our customers and go beyond their expectations in terms of delivery and after sale services.

Our Manufacturing Facility

In house R & D, manufacturing and testing facility is all located in a spread over three campuses at Ahmedabad, Gujarat, INDIA.

Network - Sales Office

- 60 Plus Branch Offices in different states in India.
- Sales office in the Bangladesh, Dubai, Kenya, Malaysia, Nepal, Qatar, Singapore, South Africa, Sri Lanka, Turkey, USA (Expanding).



























CERTIFICATIONS

ION Approvals

QMS (Quality Management System)

ISO 9001: 2015

EMS

(Environment Management System)

ISO 14001: 2015

OHSAS (Occupational Health & Safety Management

ISO 45001: 2018

System)

IBR

PISTON VALVE
GLOBE CONTROL VALVE (CKD/CND)
DISC CHECK VALVE (DCV)
PRESSSURE REDUCING VALVE (PRV)
POP TYPE SAFETY VALVE
BALL VALVE

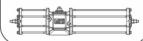
Pneumatic Actuator

CE / ATEX /



EXIDA SIL-3 / Proof of Design Scotch & Yoke Actuator

CE / ATEX / SIL-3



Stainless Steel Actuator

CE / IEP ATEX



Positioner Enclosure

CE / CIMFR / IP67 / BIS / PESO



aira's SOME OF OUR

FOUR Pertificates 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























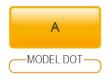


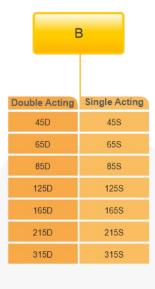


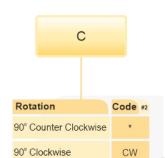
Note: Since, constant worldwide advancement in technology, We keep our rights reserved to make changes time to time in Technical specifications and Dimensions without prior notice.

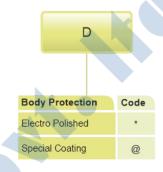


For Example









E	
Seals	Code
NBR	*
Viton	AV

Body & Pinion Material	Code
CF8M (SS 316)	*
Cf8 (SS 304)	8

Note	
Symbol	Indication
@	Contact Factory.
*	By Default, Donot Mention
#2	Available Only Single Acting Model.

Example - 1	DOT 165D8	DOT Model 165 Double Acting Actuator SS 304 Body
Example - 2	DOT 125S	DOT Model 125 Single Acting Actuator
Example - 3	DOT 85SCW8	DOT Model 85 Single Acting Actuator 90° Clockwise Rotation SS 304 Body























Design & Features

"aira" DOT Series pneumatic actuators are 100% stainless steel rack & pinion pneumatic actuators. Based on latest CNC machining centers & mechanical manufacturing are technology, and nearly 20 years know-how of the rack & pinion technology, this actuators we manufactured is a high grade product with the characteristics of reliability, high performance, long cycle lifeand already proved to be used in most corrosive chemicals as well as very harsh industrial atmospheres.



Excellent corrosion resistance.

All main parts of DOT series actuator and it's accessories are made from stainless steel. The body and end-caps is made by investment casting stainless steel. The CF8 (304) and CF8M (316) are available for choice. The pinion and fastening are made by 304 or 316 on requiring. Nearly 20 years experience of application proved that this kind of stainless steel pneumatic is able to offer excellent resistance to most corrosive chemicals (such as acid, alkali) as well as corrosive industry atmospheres, such as offshore, oil and gas platform, pharmaceutical and food industry.



Wide scope of output torque.

Totally, we have 6 different size (specifications) actuators for choice. The output torque range is from 15Nm to 3815Nm at 5 Bar. The DOT-300 stainless steel actuator with 3815Nm is biggest one in the World now.



Smooth and long life operation.

High level manufacturing technology for the rack & pinion in our workshop allows this actuator not only to cycle more than 500,000 times free from failure but alos to offer exceptionally smooth actuation due to the low friction generated during rotral operations.



Flexible adjustment in travel ends.

The two independent external travel stop bolts allow ±5°adjustment at 0°and 90° of the quarter travel.























Design & Features

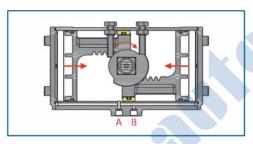
Namur and ISO 5211 Mount. "DOT" series Stainless Steel Pneumatic Actuators are designed to incorporate Namur mounting for solenoids, limit switches and positioners and offer a ISO5211 combination mounting pads that allow you to mount directly to quarter turn valves.





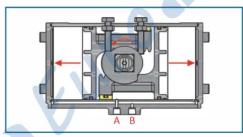


Double Acting (Stay Put)



By supplying air to Port B, pressure is applied to the outside chamber and drives the dual pistons inward.

The action causes the pinion to turn clockwise while the air is being exhausted from Port A.



By supplying air to Port A, pressure is applied to the centre chamber and forces the dual pistons outward.

Linear piston force is transferred via gear racks to the pinion gear, causing the pinion to turn counterclockwise while the air is being exhausted from Port B.













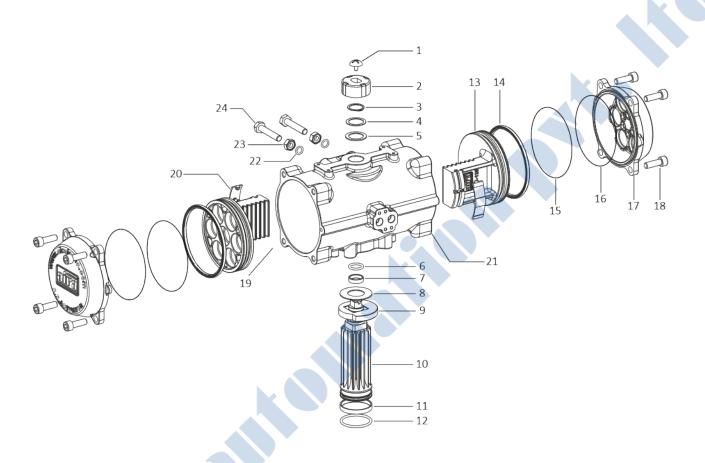












No.	Description	Material	Qty.
1	Indicator Screw	Nylon + S.S	1
2	Indicator	Nylon	1
3	Circlip Shaft	ASTM A276 Type 316	1
4	Shaft Washer	ASTM A276 Type 316	1
5	Shaft Washer	Delrin	1
6	Shaft Up 'O' - Ring	Hi - Nitrile	1
7	Shaft Up Guide	Delrin	1
8	Adapter Washer	Delrin	1
9	Adaptor	S.S 316	1
10	Shaft	ASTM A276 Type 316	1
11	Shaft Low Guide	Delrin	1
12	Shaft Low 'O' - Ring	Hi - Nitrile	1
13	Piston	ASTM A351M Gr. CF8M	2
14	'O' - Ring (Piston 2D Seal)	Hi - Nitrile	2

No.	Description	Material	Qty.
15	Bearing (Piston Guide)	Nylon / Delrin	2
16	End Cover for 'O' - Ring	Hi - Nitrile	2
17	End Cover	ASTM A351M Gr. CF8M	2
18	Fitting L. N. Bolt	ASTM A193 Gr. 8M	8
19	Bush for Air Bolt	NBR / L NBR / Viton	2
20	Scate Piston	Nylon / Delrin	2
21	Body	ASTM A351M Gr. CF8M	1
22	'O' Ring for Adjustable	Hi - Nitrile	2
	Bolt		
23	Nut (Adjustable Screw)	Stainless Steel	2
24	Adjustable Screw	ASTM A193 Gr. 8M	2













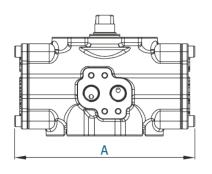


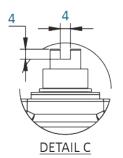


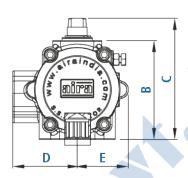


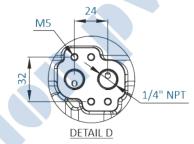












Unit: mm

Unit: mm

Model	A Double Acting	В	С	D	E	F	G	M	N	0	Air Connection Port
DOT - 45	129	65	82	48	35	80	30	M6X50	M5X36	11X11	G1/4" - NPT
DOT - 65	161	88	108	57	46	80	30	M8X70	M6X50	14X14	G1/4" - NPT
DOT - 85	180	111	130	69	58	80	30	M8X70	M6X50	17X17	G1/4" - NPT
DOT - 125	266	155	175	88	77	130	30	M10X102	M8X70	27X27	G1/4" - NPT
DOT - 165	377	200	227	110	97	130	30	M12X125	M10X102	27X27	G1/4" - NPT
DOT - 215	554	254	283	143	134	130	30	M16X140		46X46	G1/4" - NPT
DOT - 315	620	354	375	195	180	130	30	M20X165		46X46	G1/4" - NPT

Double Acting Actuators Output High Torque (Nm)

Model	DOT - 45	DOT - 65	DOT - 85	DOT - 125	DOT - 165	DOT - 215	DOT - 315
High Torque.	59	69	89	129	169	219	319



















Output Torque (Nm)

Double Acting Actuators Output Torque (Nm)

Model	2.0	3.0	4.0	5.0	6.0	7.0	8. 0
DOT - 45DA	6.0	9.1	12.1	15.1	18.1	21.1	24.1
DOT - 65DA	14.6	21.9	29.2	36.5	43.8	51.1	58.4
DOT - 85DA	31.4	47.0	62.7	78.4	94.1	109.7	125.4
DOT - 125DA	100.3	150.5	200.6	250.8	301.0	351.1	401.3
DOT - 165DA	266.0	399.0	532.0	665.0	798.0	931.0	1064.0
DOT - 215DA	532.0	798.0	1064.0	1330.0	1596.0	1862.0	2128.0
DOT - 315DA	1526.0	2671.0	3052.0	3815.0	4578.0	5341.0	6104.0



Output Torque (in.1bs)

Double Acting Actuators Air Pressure (Psi)

Model	30	45	60	75	90	105	120
DOT - 45DA	54.9	83.3	110.8	138.2	165.7	193.2	220.6
DOT - 65DA	133.7	200.5	267.3	334.2	401.0	467.8	534.7
DOT - 85DA	287.5	430.3	574.0	717.8	861.5	1004.3	1148.1
DOT - 125DA	918.3	1377.9	1836.5	2296.1	2755.7	3214.4	3674.0
DOT - 165DA	2435.3	3652.9	4870.6	6088.2	7305.8	8523.5	9741.1
DOT - 215DA	4870.6	7305.8	9741.1	12176.4	14611.7	17046.9	19482.2
DOT - 315DA	13970.8	24453.5	27941.6	34927.0	41912.4	48897.8	55883.2

Double Acting Torque Curve Start End

Technical Data

Weight

Weight			1	V		L	Jnit: Kg	
Model	45	65	85	125	165	215	315	
DA	1.8	3.79	6.5	13.5	28	71.5	170.5	

Air Consumption

Unit: L

Model Action	45	65	85	125	165	215	315
OPEN	0.08	0.21	0.43	1.60	3.70	7.50	23.8
CLOSED	0.11	0.23	0.47	1.40	3.20	7.50	29.7

Air consumption depends on Air Supply. Air volume and Action cycle times, the calculating as follows: Air Supply (Kpa)+101.3] x Action cycle times (/min) L/Min=Air volume (Air volume Opening+Air volume closing) x [





















90°



Operating Time

Double Acting			
Size	0°-90°	90°-0°	
45DA	0.55	0.47	
65DA	0.66	0.58	
85DA	0.83	0.73	
125DA	2.4	1.79	
165DA	3.93	2.6	
215DA	5.5	4.35	
315DA	15	14.9	

Operating Conditions

1. Operating Media:

Dry and Lubricated air, or non-corrosive gas. The maximum particle diameter must be less than 40Pm.

2. Air Supply Pressure:

The minimum supply pressure is 2 Bar (30 psi). The maximum supply pressure is 8 Bar (120 psi).

3. Operating Temperature:

Standard (NBR O - ring) : -20 °C ~ 80 °C (-4 °F ~ 175 °F)

Low Temperature (L NBR O-ring) : -35 $^{\circ}$ C \sim 80 $^{\circ}$ C

(-30 °F ~ 175 °F)

High Temperature (Viton O-ring) : -15 $^{\circ}$ C \sim 150 $^{\circ}$ C

 $(5^{\circ}F \sim 300^{\circ}F)$

4. Travel Adjustment:

Have adjustment range of $\pm 5^{\circ}$ for the rotation at 0° and 90° .

5. Lubricated:

Under normal operating condition, need not accrete lubricant.

6. Application:

Either indoor or outdoor.

7. Highest pressure:

The maximum input pressure is 8 Bar (116 Psi).





















Pneumatic Rotary Actuator Accessories



Pneumatic - Pneumatic & Electro Pneumatic ROTARY Valve Positioner





Input Signal **Supply Air Pressure** : 4 ~ 20 mA DC : 20 ~ 100 psi Max. (7.0 Kgf/cm2)

Standard Stroke : 10 ~ 80 mm Air Pipe Connection : 1/4" NPT : -20 °C to 70 °C Ambient Temperature Degree of Protection : IP 65

Out-put Characteristics: Rotary : 1/2" NPT **Conduit Connection** : Aluminium Die Cast **Body Material**









Pneumatic - Pneumatic & Electro Pneumatic LINEAR Valve Positioner



Pneumatic - Pneumatic Model

: 3 ~ 15 (0.2 ~ 1.0 Kgf/cm²) Input Signal

Supply Air Pressure : 100 psi Max. (7.0 Kgf/cm²) Standard Stroke : 10 ~ 80 mm : 1/4" NPT Air Pipe Connection **Ambient Temperature** : -20 °C to 70 Degree of Protection : IP 65

Out-put Characteristics: Linear Conduit Connection : 1/2" NPT **Body Material** : Aluminium Die Cast









SMART Positioner LINEAR



Body Set Point Signal

: 4 - 20mA DC Ambient Temperature

Supply Pressure

Flow



: IP 6000 Series

: Normal Version : -20 $^{\circ}\text{C}$ $^{\sim}$ 70 $^{\circ}\text{C}$ Optional Version : -40 °C ~ 70 °C

: 0.14 - 0.7 MPa

: 55L/min (Sup=0.14MPa)

Weatherproof MICRO Limit Switch Box

APP-1200-LSN



: MMLS-BX-WP-01-A Model MMLS-BX-WP-01-B MMLS-BX-WP-01-C Switch : Honeywell ZM / NJ2-V3-N /

NBB-V3-Z4 : 1 NO + 1 NC / 2 Switch

: IP 67

Protection Ambient : -20 $^{\circ}$ C to 80 $^{\circ}$ C

: 1/2" - NPT Conduit Entry : 8 Point

Terminal : Namur VDI / VDE3845 / ISO 5211 **Mounting Bracket**

Material : Aluminium Die Cast

Flameproof Limit Switch Box



: MLS-BX-FLP-01-A Model MLS-BX-FLP-01-B MLS-BX-FLP-01-C MLS-BX-FLP-01-D Switch Honeywell V15 / Honeywell

V 15 PCB Type / NCB2-V3-NO / NJ2-V3-N / NBB-V3-Z4 / NBB3-V3-Z4 1 NO + 1 NC / 2 NO + 2 NC / 2 Switch

Type Enclosure Protection: IP 68 Ambient Temp. -20 °C to 80 °C

1/2" - NPT Conduit Entry : 8 Point Terminal

: Namur VDI / VDE3845 / ISO 5211 **Mounting Bracket** Material : Aluminium Die Cast

Flameproof Limit Switch Box STAINLESS STEEL 304 / 316



LS4-BX-FLP-01-B / LS6-BX-FLP-01-B LS4-BX-FLP-01-C / LS6-BX-FLP-01-C LS4-BX-FLP-01-D / LS6-BX-FLP-01-D Switch : Honeywell V15 / Honeywell V 15 PCB Type / NCB2-V3-NO / NJ2-V3-N / NBB-V3-Z4 / NBB3-V3-Z4

: LS4-BX-FLP-01-A / LS6-BX-FLP-01-A

: 1 NO + 1 NC / 2 NO + 2 NC / 2 Switch **Enclosure Protection: IP 67** Ambient Temp. : -20 $^{\circ}$ C to 80 $^{\circ}$ C

: 1/2" - NPT **Conduit Entry** : 8 Point Terminal

: Namur VDI / VDE3845 / ISO 5211 **Mounting Bracket** Material : ASTM A351 Gr. CF8 / CF8M / CF3M





Weatherproof Limit Switch Box STAINLESS STEEL 304 / 316



Model : MLS4-BX-01-A / MLS4-BX-01-B MLS4-BX-01-C / MLS4-BX-01-D Switch : Honeywell V 15 / NJ2-V3-N / NBB-V3-Z4 / NCB2-V3-NO : 1 NO + 1 NC / 2 NO + 2 NC / Type

> 2 Switch : IP 67

Ambient Temperature : -20 °C to 80 °C **Conduit Entry** : 1/2" - NPT Terminal : 8 Point

Mounting Bracket : Namur VDI / VDE3845 / ISO 5211

Material : ASTM A351 Gr. CF8 / CF8M / CF3M

Weatherproof Limit Switch Box (Big Box)



Model : MLS-BX-01-A / MLS-BX-01-B MLS-BX-01-C / MLS-BX-01-D Switch : Honeywell V 15 / NJ2-V3-N / NBB-V3-Z4 / NCB2-V3-NO : 1 NO + 1 NC / 2 NO + 2 NC / Type

2 Switch : IP 67

Protection

Ambient Temperature : -20 °C to 80 °C **Conduit Entry** : 1/2" - NPT

: 8 Point Terminal **Mounting Bracket** : Namur VDI / VDE3845 /

ISO 5211 : Aluminium Die Cast Material























Pneumatic Rotary Actuator Accessories



3/2 Way Namur Direct Acting Solenoid Valve



Model : NAM-SA-32 : All Std. Voltage Available Coil Voltage : 50 - 60 Hz

Connection Type : 1/4" (NPT) Conduit : PF 1/2" Coil Insulation Grade : Class "F" Ambient Temp. : -20 $^{\circ}$ C $^{\sim}$ 70 $^{\circ}$ C MOC : Aluminium

Seals : NBR (Viton On Request) : Upto 0 to 10 Kg/cm² **Working Pressure**

5/2 Way Convertible Poppet Type SINGLE & DOUBLE Namur Solenoid Valve



: OTX-ALU-52 / 2OTX-ALU-52 Coil Voltage : All Std. Voltage Available Frequency : 50 - 60 Hz

: 1/4" (NPT) Connection Type Conduit : PF 1/2" Coil Insulation Grade : Class "F" Ambient Temp. : -20 $^{\circ}$ C $^{\sim}$ 70 $^{\circ}$ C MOC : Aluminium

Seals : NBR (Viton On Request) Working Pressure : Upto 2.5 to 10 Kg/cm²

3/2 Way Internal Pilot Operated STAINLESS STEEL 316 Single Namur Solenoid Valve

Frequency



: MPT-S6-32 Model Coil Voltage : All Std. Voltage Available

: 50 - 60 Hz Frequency : 1/4" (NPT) Connection Type Conduit : PF 1/2" : Class "F" & "H" **Coil Insulation Grade** Ambient Temp. : -20 °C ~ 70 °C : ASTM A351 Gr. CF8M MOC : NBR (Viton On Request) Seals

5/2 Way Poppet Type STAINLESS STEEL 316 Single Namur Solenoid Valve



Model Coil Voltage : All Std. Voltage Available

: OTX-S6-52

: 50 - 60 Hz Frequency : 1/4" (NPT) Connection Type Conduit : PF 1/2" : Class "F" & "H" **Coil** Insulation Grade : -20 °C ~ 70 °C Ambient Temp. : ASTM A351 Gr. CF8M MOC

Seals : NBR (Viton On Request) **Working Pressure** : Upto 2.5 to 10 Kg/cm²

3/2 Way Midget Type Direct Acting Solenoid Valve



Model : DMV Size

Working Pressure

: CF8 / CF8M / Brass / S.S 304 Body

Orific : 7 Kg / cm2 Pressure

: Upto -5 to 80 C max. Temp. : Continuous Rated **Coil Rating**

: "F" Class & "H" Class For Flameproof Coil Insulation

Media

: 12V, 24V, 48V, 110V, 230V, AC/DC Voltage

3/2 Way Midget Type Direct Acting Solenoid Valve



Model : MDV Size

: CF8 / CF8M / Brass / S.S 304 Body Orific : 7 Kg / cm² Pressure

: Upto -5 to 80 °C max. Temp. Coil Rating : Continuous Rated

Coil Insulation : "F" Class & "H" Class For Flameproof

Media : Air & Gas

: 12V, 24V, 48V, 110V, 230V, AC/DC Voltage

Filter + Regulator Air Combination





Model

: 4FQ / 8 FQ / FRJ / AFRS4

: Upto 2.5 to 10 Kg/cm2

Air Connection : 1/4"

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

FRJ: 1 to 9 Kg/cm2 Gauge Connection : 1/8'

: -20 °C ~ 70 °C Ambient Temp. Mini Filtering Size : 5 Micron

: Aluminium Pressure Material Die Cast / CF8 / CF8M

Air Volume Booster



: VLB Model : 1/4" to 1" Size : Aluminium MOC Seals : NBR : 10 Bar **Supply Pressure** Output Pressure : 7 Bar : -20 °C ~ 70 °C

Single & Double Air Lock Valve



Model Single Model Double Size

: DALV : 1/4" to 3/4" MOC : Aluminium Supply Pressure : 10 Bar

: SALV

Output Pressure : 7 Bar : -20 °C ~ 70 °C

Manual Override Clutch Type (MO)



Model : AMO Torque

Temperature

: 200 Nm to 10000 Nm Body : Aluminium Pressure Die Cast / S. G. Iron

Lever Wheel : Stainless Steel Hand Wheel : S.S. / M.S. (Fabricated)





























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