

790055_180° DOUBLE EFFECT PNEUMATIC ACTUATOR_ALUMINIUM

DOUBLE EFFECT PNEUMATIC ACTUATOR IN ALUMINIUM – 180°

- ENAW 6063 T6 extruded Aluminium Body, inside surface finish Ra=0,4-0,6 and Hard Anodic Oxidation treatment sp. 50 microns.
- ENAB 46100 T6 die-casted Aluminium alloy Pistons, 15 micron Anodizing.
- ENAB 46100 T6 die-casted Aluminium alloy Covers Nickel plated.
- Carbon steel Shaft, 20 micron Nickel plated.
- Screws in Stainless Steel AISI 304 (A2).
- Seals in nitrile nubber NBR.
- LAT-LUB low friction sliding Bearings.
- Precompressed spring-cartridges, for easy insertion or replacement, painted with polyester powders sp. 60-80 microns.
- High performances Syntetic Grease.
- Various surface protections available, for use in industrial, chemical, food, pharmaceutical environments.
- Double lower drilling for valve fastening and centering according to ISO 5211-DIN 3337 standards.
- Double square lower female shaft key (starlike) according to ISO 5211-DIN 3337 standards to assembly on valves with square key on line (0°) and diagonal key (45°).
- Solenoid connections according to NAMUR VDIVDE-3845 standards.
- Top drilling for accessories fastening, and upper shaft end according to NAMUR VDIVDE-3845 standards.
- Optional position indicator which allows the assembly of upper switch-boxes.
- Aluminium adhesive nameplates with progressive serial number punched.
- Lubrification guaranteed for min. 1.000.000 operations.
- Running test and 100% seal test carried out with electronic equipment and certification of each individual product.
- Standard execution for temperatures -20°C +80°C (optional special execution for extreme temperatures).
- Compliant for use in explosive atmospheres, certified for STANDARD actuators: II 2GD c Tmax = 95°C.
- Compliance with design and construction requirements according to EN 15714-3.

USE:

AIR SUPPLY: dry or lubricated filtered compressed air.

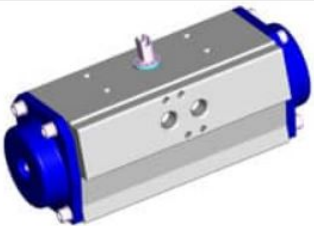
TEMPERATURE RANGE: -20°+80°C

FEEDING PRESSURE: 8 bar/120 psi continuous – 10 bar/142 psi maximum.

TURNING ROTATION RANGE: +/- 5°.

STANDARD ROTATION: counterclockwise.

PROTEZIONI SUPERFICIALI - TRATTAMENTI DEI MATERIALI

	AV	DESCRIZIONE				UTILIZZO	
		Corpo	Coperchi	Pistoni	Pignone		
	standard	Ossidazione Anodica Dura	Verniciatura a polveri poliestere	Ossidazione Anodica	Nichelatura chimica alto fosforo (12%) <i>opt. AISI 316 (A4)</i>		- Industria, uso generale.
	Colore	Bruno	Vari	Bruno	Acciaio lucido		
	Spessore	50 µ	60/80 µ	15 µ	20 µ		

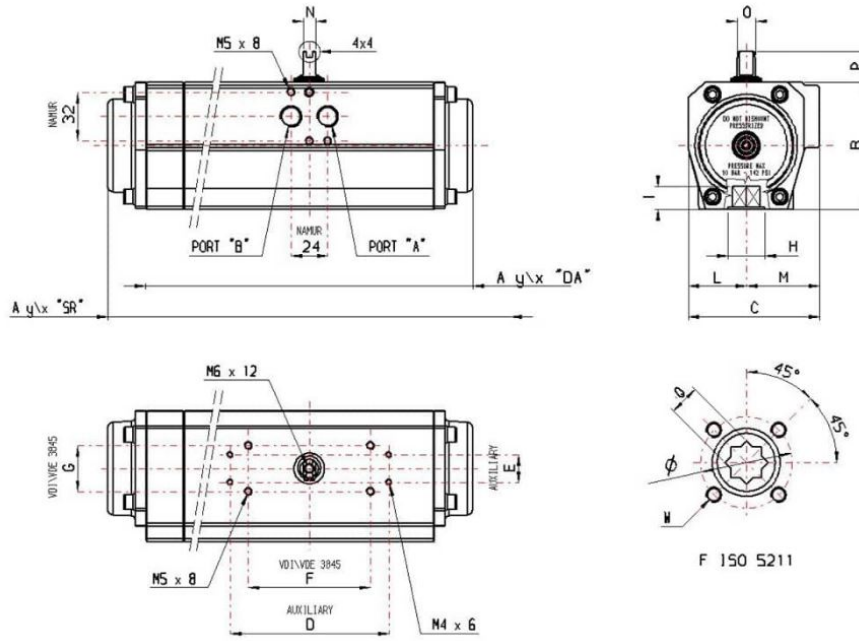
OSSIDAZIONE ANODICA

L'ossidazione anodica e' un trattamento elettrolitico che produce sull'alluminio uno strato di ossido detto allumina, con spessore elevato. L'ossido d'alluminio e' uno dei materiali piu' duri che si conoscano, raggiungendo valori di 400-600 HV (45-65 HRC) ed in generale e' proprieta' e le caratteristiche dell'ossidazione dura (spessore nominale 50 micron) sono notevoli sia per resistenza meccanica che chimica.

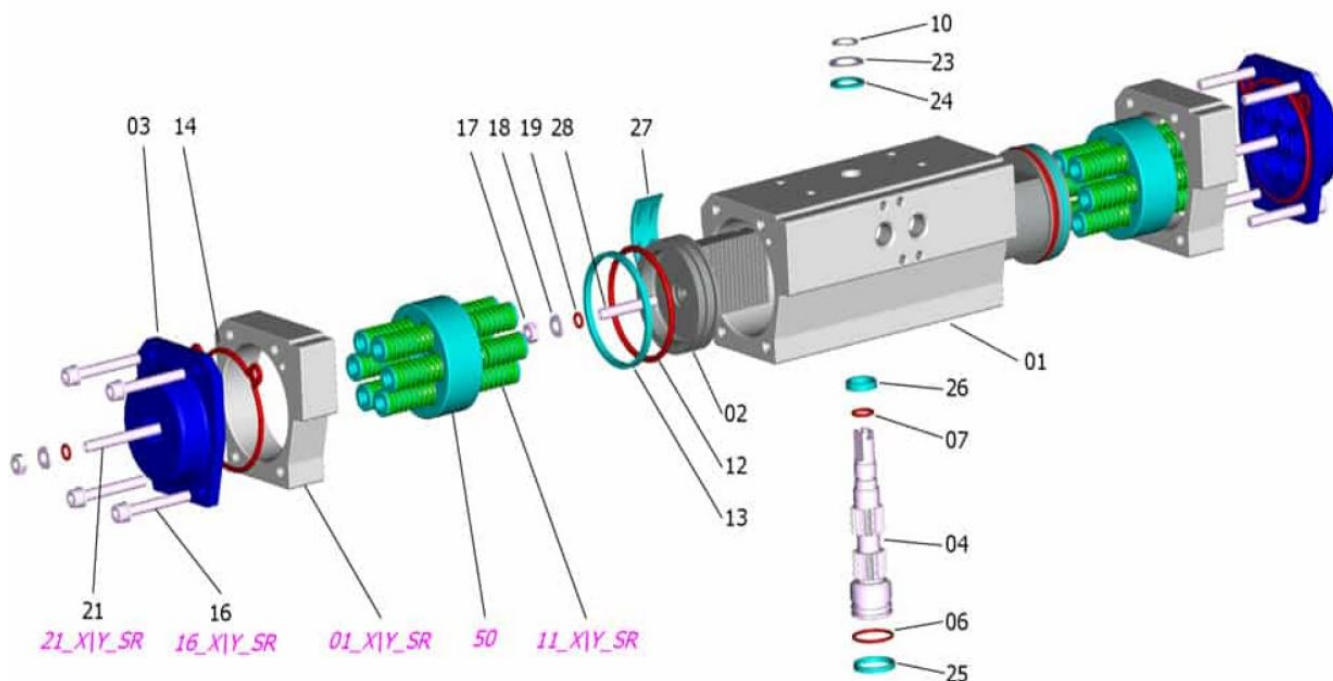
- **Migliore resistenza all'abrasione, alla corrosione, durezza superficiale, isolamento termico, isolamento elettrico.**

TYPE	1 BAR	2 BAR	3 BAR	4 BAR	5 BAR	6 BAR	7 BAR	8 BAR	9 BAR	10 BAR	CODE
AP 032	-	-	-	5,0	6,3	7,6	8,8	10,0	11,4	12,6	790055 80500
AP 042	-	-	6,5	8,7	10,9	13,0	15,2	17,3	19,5	21,7	790055 80700
AP 050	3,0	6,1	9,2	12,3	15,4	18,5	21,5	24,6	27,7	30,8	790055 81000
AP 063	5,5	11,0	16,5	22,0	27,5	33,0	38,5	44,0	49,5	55,0	790055 81600
AP 075	11,7	23,4	35,1	46,8	58,5	70,2	81,9	93,6	105,3	117,0	790055 82000
AP 085	17,8	35,6	53,4	71,2	89,0	106,9	124,7	142,4	160,3	178,1	790055 82500
AP 100	27,7	55,4	83,2	110,9	138,6	166,4	194,1	221,8	249,5	277,3	790055 83000
AP 115	45,7	91,5	137,2	183,0	228,7	274,5	320,2	366,0	411,7	457,5	790055 83500
AP 125	60,1	120,3	180,5	240,7	300,9	361,1	421,2	481,4	541,6	601,8	790055 84000
AP 145	86,7	173,4	260,1	346,8	433,5	520,2	606,9	693,6	780,3	867,0	790055 84500
AP 160	118,3	236,7	355,0	473,4	591,7	710,1	828,4	946,8	1065,0	1183,0	790055 85000

ACTUATOR TORSIONS IN Nm



POSITION	AP 032	AP 042	AP 050	AP 063	AP 075	AP 085	AP 100	AP 115	AP 125	AP 145	AP 160
A-180°	149	190	196	214	297	332	398	451	518	566	652
B	45	57	67	83	100	110	125	142	155	175	196
C	48	60,5	75	86	94	104	120	134	141	163	176
D x E	-	-	-	-	105 x 22	105 x 22	105 x 22	139 x 22	139 x 22	139 x 22	139 x 22
F x G	50 x 25	80 x 30	80 x 30	80 x 30	80 x 30	80 x 30	80 x 30	130 x 30	130 x 30	130 x 30	130 x 30
L	23,5	27	33,5	38	42,5	49	55	63,5	69,5	80	88
M	25,5	33,5	41,5	48	51,5	55	65	70,5	71,5	83	88
Port.A-Port.B DIN259	1/8" GAS - NPT	1/8" GAS - NPT	1/8" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT	1/4" GAS - NPT
N x O	8 x 12	8 x 12	8 x 12	8 x 12	14 x 18	14 x 18	14 x 18	27 x 36	27 x 36	27 x 36	27 x 36
P	20	20	20	20	20	20	20	30	30	30	50
F.ISO 5211	F03	F03/05	F03/05 F04	F03/05/07 F05/07	F05/07	F05/07	F05/07/10	F07/10	F07/10/12	F10/12	F10/12
Q x I	9 x 10	9 x 10 11 x 13	9 x 10 11 x 13	9 x 10 11 x 13 14 x 16	11 x 13 14 x 16 17 x 20	14 x 16 17 x 20	17 x 20 22 x 25	17 x 20 22 x 25	17 x 20 22 x 25 27 x 30	22 x 25 27 x 30	22 x 25 27 x 30
Ø	Ø 36 Ø 50	Ø 36 Ø 50	Ø 42	Ø 50	Ø 50 Ø 70	Ø 50 Ø 70	Ø 70 Ø 102	Ø 70 Ø 102	Ø 70 Ø 102	Ø 102 Ø 125	Ø 102 Ø 125
W	M5 x 8	M5 x 8 M6 x 9	M5 x 8	M6 x 9	M6 x 9 M8 x 12	M6 x 9 M8 x 12	M8 x 12 M10 x 15	M8 x 12 M10 x 15	M8 x 12 M10 x 15	M10 x 15 M12 x 18	M10 x 15 M12 x 18
H	-	25	30	35	35	40	55	55	55	70	75



POSITION	DENOMINATION	PIECES	MATERIAL	SPECIFICATION
1	Body	1	Extruded aluminium alloy	EN AW 6063 T6
2	Piston	2	Aluminium alloy	EN AB 46100 T6
3	Cover	2	Aluminium alloy	EN AB 46100 T6
4	Pinion	1	Carbon steel	ASTM A105
6 *	Pinion lower O-Ring	1	NBR	-
7 *	Pinion upper O-Ring	1	NBR	-
10 *	Seeger	1	Carbon steel	-
12 *	Piston O-Ring	2	NBR	-
13 *	Piston anti-friction ring	2	Acetal resin	-
14 *	Cover Seal	2	NBR	-
16	Cover fixing screw	8	Stainless Steel	AISI 304 (A2)
17	Nut	4	Stainless Steel	AISI 304 (A2)
18	Washer	4	Stainless Steel	AISI 304 (A2)
19 *	O-ring	4	NBR	-
21	Cover screw	2	Stainless Steel	AISI 304 (A2)
23 *	Pinion thrust washer	1	Stainless Steel	AISI 304 (A2)
24 *	Anti-friction washer	1	Acetal resin	-
25 *	Inferior pinion guide ring	1	Acetal resin	-
26 *	Superior pinion guide ring	1	Acetal resin	-
27 *	Piston anti-friction pad	2	Acetal resin	-
28	Piston screw	2	Stainless Steel	AISI 304 (A2)
*	Spares kit			