

790050_DOUBLE EFFECT_ALUMINIUM



DOUBLE EFFECT PNEUMATIC ACTUATOR IN ALUMINIUM NICKEL – 90°

- ENAW 6063 T6 extruded Aluminium Body, inside surface finish Ra=0,4-0,6 and treatment of Nickel plating.
 - 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.
 - High performances Syntetic Grease.
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- 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.
 - 3D position indicator.
 - Aluminium adhesive nameplates with progressive serial number punched.
 - Lubrication guaranteed for min. 1.000.000 operations.
 - Running test and 100% seal test carried out with electronic equipment and certification of each individual product.
 - According to ATEX 2014/34/UE Standard for explosive environnement; STANDARD version actuator: II 2GD c Tmax = 95°C.
 - According to EN 15714-3 design and manufacture standard requirements.

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.

NICHELATURA CHIMICA

La nichelatura chimica e' un processo di deposito senza utilizzo di elettricit  che permette di ottenere strati di nickel di spessore estremamente uniforme anche su spigoli, fori ciechi, filetti e canali. Durante il processo produttivo il nickel viene combinato con fosforo in percentuali variabili fino al 12% (alto fosforo) il pi  pregiato. La durezza superficiale ottenibile   dell'ordine di 400-480 HV (45-55 HRC).

Migliore resistenza all'abrasione, alla corrosione, durezza superficiale, estetica simile all'acciaio INOX, resistenza ad alcali e detersivi.

ELECTROLESS NICKEL-PLATING

Chemical nickel-plating is an electroless coating process that gives nickel layers at extremely constant thickness also on sharp angles, blind-holes, threads and grooves recess. During the process, nickel is combined with phosphor at a percentage of 12% (high-phospor). The obtained surface hardness is about 400-480 HV (45-55 HRC).

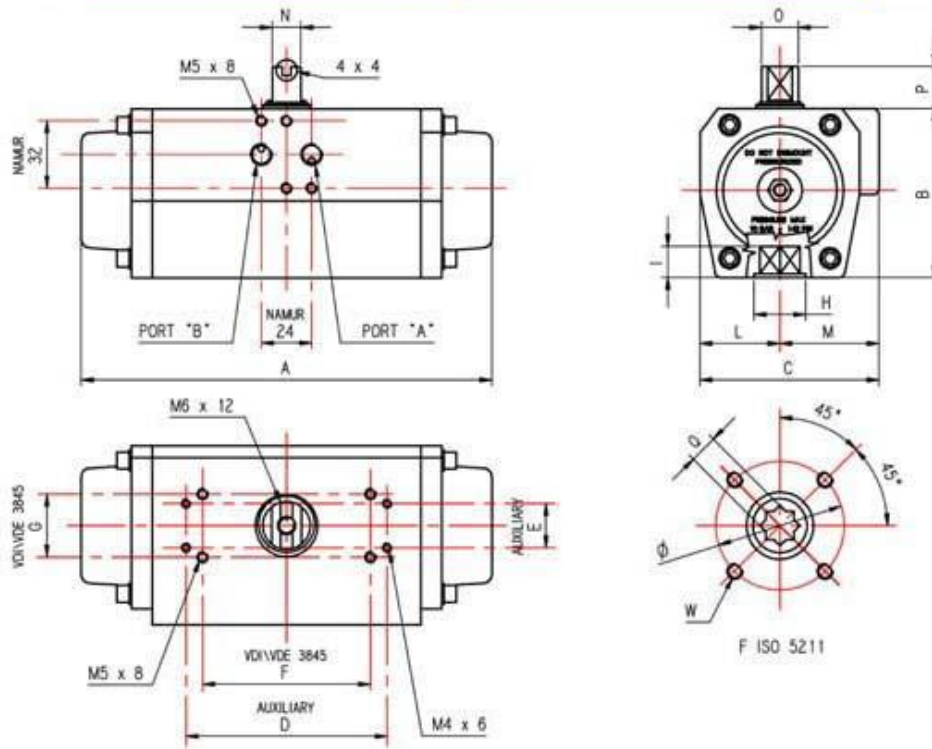
Best friction and corrosion resistance, best surface hardness, best external appearance similar to S.S., increased resistance to alkali and detergents in sanitary and food applications.

	DESCRIZIONE / DESCRIPTION				UTILIZZO / APPLICATION FIELD
	Corpo / Body	Coperchi / Covers	Pistoni / Pistons	Pignone / Shaft	
	Nichelatura chimica alto fosforo (12%) High phosphorous nickel-plating (12%)	Nichelatura chimica alto fosforo (12%) High phosphorous nickel-plating (12%)	Ossidazione Anodica Anodizing	Nichelatura chimica alto fosforo (12%) High phosphorous nickel-plating (12%)	Industria, uso generale Industry, general use Soda caustica Caustic soda Detersivi Detergents Deboli soluzioni alcaline Low alkaline solutions
Colore / Colour	Acciaio lucido / Polished steel	Acciaio lucido / Polished steel	Bruno / Brown	Acciaio lucido / Polished steel	
Spessore / Thickness	20 �	20 �	15 �	20 �	

TIPO	1 BAR	2 BAR	3 BAR	4 BAR	5 BAR	6 BAR	7 BAR	8 BAR	9 BAR	10 BAR
AP 032	-	-	-	5,0	6,3	7,6	8,8	10,0	11,4	12,6
AP 042	-	-	6,5	8,7	10,9	13,0	15,2	17,3	19,5	21,7
AP 050	3,0	6,1	9,2	12,3	15,4	18,5	21,5	24,6	27,7	30,8
AP 063	5,5	11,0	16,5	22,0	27,5	33,0	38,5	44,0	49,5	55,0
AP 075	11,7	23,4	35,1	46,8	58,5	70,2	81,9	93,6	105	117
AP 085	17,8	35,6	53,4	71,2	89,0	107	125	142	160	178
AP 100	27,7	55,4	83,2	111	139	166	194	222	250	277
AP 115	45,7	91,5	137	183	229	275	320	366	412	458
AP 125	60,1	120	181	241	301	361	421	481	542	602
AP 145	86,7	173	260	347	434	520	607	694	780	867
AP 160	118	237	355	473	592	710	828	947	1065	1183
AP 180	160	319	479	639	798	958	1119	1277	1437	1598

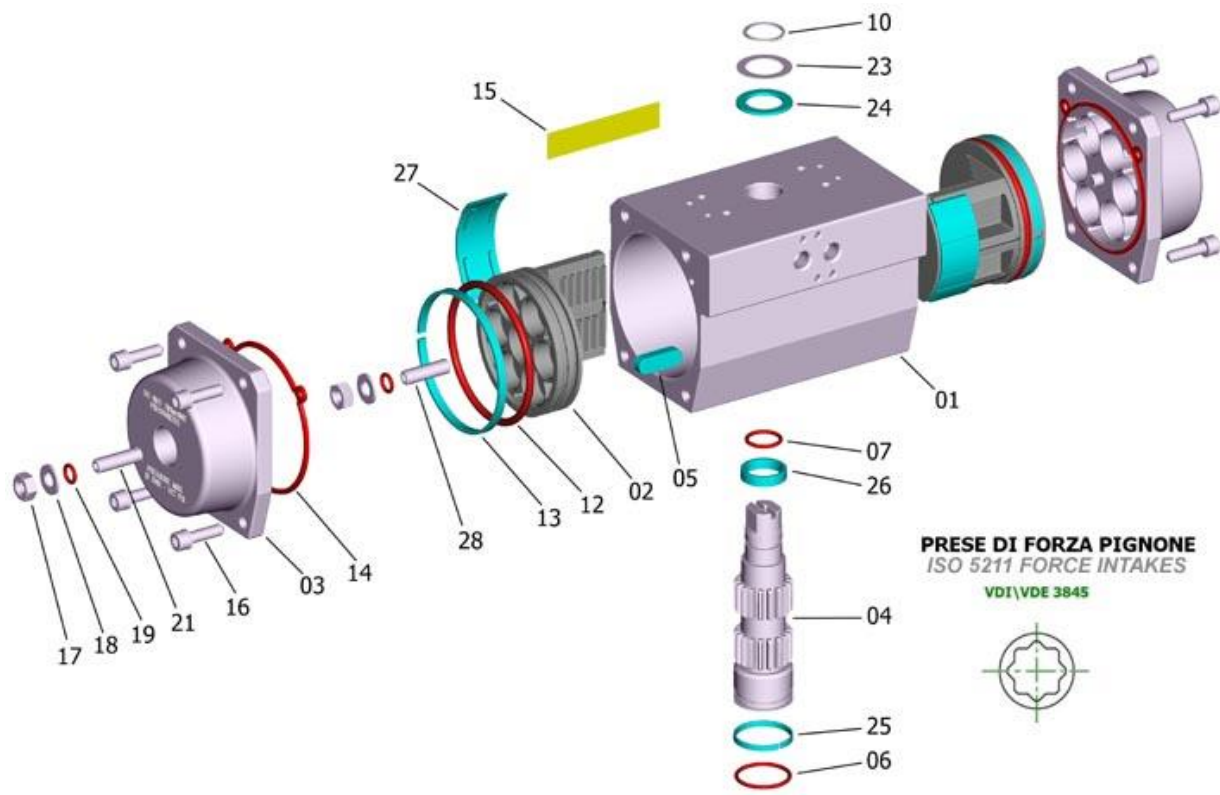
DIMENSIONI – Misure Europee in millimetri

DIMENSIONS - European sizes in millimetres



POSIZIONE POSITION	F ISO 5211					
	F03	F03/05	F05	F05/07	F07/10	F10/12
Ø (W)	36 (M5x8)	36 (M5x8) 50 (M6x9)	50 (M6x9)	50 (M6x9) 70 (M8x12)	70 (M8x12) 102 (M10x15)	102 (M10x15) 125 (M12x18)
H	25 escluso AP 032	25	35	35 (AP085=40)	55	AP145 = 70 AP160 = 75 AP180 = 85

POSITION	AP 032	AP 042	AP 050	AP 063	AP 075	AP 085	AP 100	AP 115	AP 125	AP 145	AP 160	AP 180
A-90°	117	160	138	155,5	210	228	280,5	310	362	390	462	474
B	45	57	67	83	100	110	125	142	155	175	196	220
C	48	60,5	75	86	94	104	120	134	141	163	176	196
D x E	-	-	-	-	105 x 22	105 x 22	105 x 22	139 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	130 x 30
L	22,5	27	33,5	38	42,5	49	55	63,5	69,5	80	88	98
M	25,5	33,5	41,5	48	51,5	55	65	70,5	71,5	83	88	98
Port.A-Port.B DIN259	1/8" GAS	1/8" GAS	1/8" GAS	1/4" GAS	1/4" GAS	1/4" GAS	1/4" GAS	1/4" GAS	1/4" GAS	1/4" GAS	1/4" GAS	1/4" GAS
N x O	8 x 12	8 x 12	8 x 12	14 x 18	14 x 18	14 x 18	14 x 18	27 x 36	27 x 36	27 x 36	27 x 36	32 x 42
P	20	20	20	20	20	20	20	30	30	30	50	50
Q x I	9 x 10	9 x 10	9 x 10	14 x 16	17 x 20	17 x 20	22 x 25	22 x 25	22 x 25	27 x 30	27 x 30	27 x 30
F.ISO 5211	F03	F03 / 05	F03 / 05 - F05	F03 / 05	F05 / 07	F05 / 07	F07 / 10	F07 / 10	F07 / 10	F10 / 12	F10 / 12	F10 / 12



POS.	DENOMINATION	PCS	MAT.
1	Body	1	ENAW 6063 T6
2	Pistone	2	ENAB 46100 T6
3	Cover	2	ENAB 46100 T6
4	Pinion	1	ASTM A105
5*	Chiavetta Antiespulsione	2	Resina Acetalica - Acetalic resin
6*	O-Ring inferiore pignone	1	NBR
7*	O-Ring inferiore pignone	1	NBR
10*	seeger	1	Acciaio per molle - Spring steel
12*	Piston O-Ring	2	NBR
13*	Piston anti-friction ring	2	Resina Acetalica - Acetalic resin
14*	Cover Seal	2	NBR
15	Identification plate	1	Alluminio - Aluminium
16	Cover fixing screw	8	AISI 304 (A2)
17	Nut	4	AISI 304 (A2)
18	Washer	4	AISI 304 (A2)
19*	O-ring	4	NBR
21	Cover screw	2	AISI 304 (A2)
23*	Pinion thrust washer	1	AISI 304 (A2)
24*	Anti-friction washer	1	Resina Acetalica - Acetalic resin
25*	Inferior pinion guide ring	1	Resina Acetalica - Acetalic resin
26*	Superior pinion guide ring	1	Resina Acetalica - Acetalic resin
27*	Piston anti-friction pad	2	Resina Acetalica - Acetalic resin
28	Piston screw	2	AISI 304 (A2)
*	spares kit		