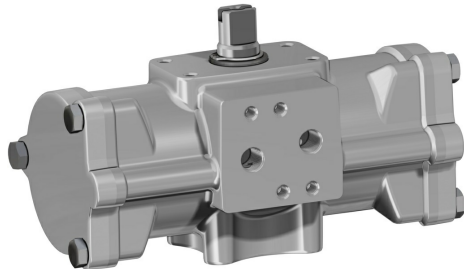


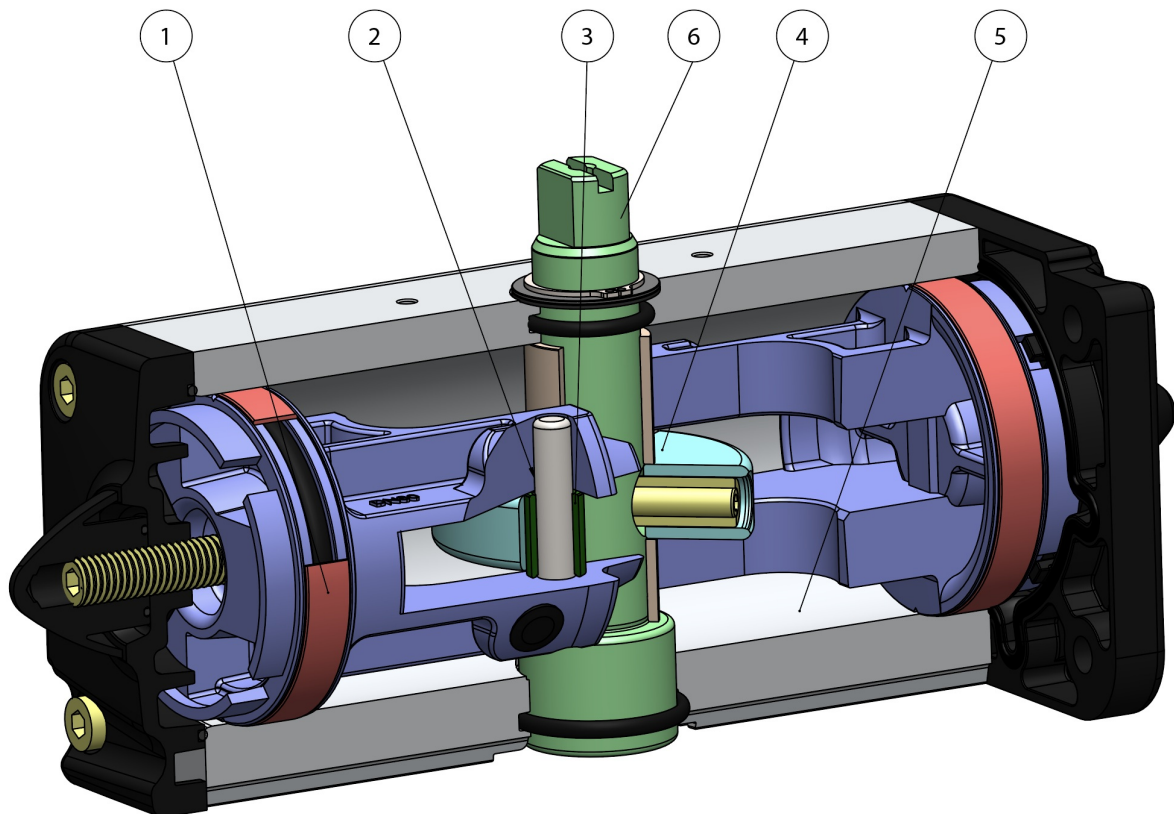
AGO CF8M - DA type inox precision casting CF8M



Macro Pneumatic actuators

Category AGO CF8M - Inox precision casting CF8M
actuators

benefits



1. Energized and self-lubricated strips

Less friction between piston and cylinder

It prevents the bonding of the seal to the cylinder even after long periods of inactivity

2. Slots, bushes and pins made by steel with hardness higher than 50 HRC

Higher resistance to the forces inside the actuator

3. Rolling friction between piston and slot

Less friction

4. Scotch yoke with rolling friction (transforming rotary motion into linear motion using piston and shaft without teeth/gears)

Reduced friction between piston and shaft with consequently less wear on the relevant parts

Empowered Breakaway Torque (BTO & BTC)

Smaller volume/size than rack and pinion actuators (with the same torque) therefore less space required for installation

Less weight than the rack and pinion (-30% kg / Nm), with consequent savings on the construction sizing of the plant/equipment

Lower air consumption compared to the rack and pinion actuators (-40% air cm³/Nm for Double Acting and -20% air cm³/Nm for Spring Return) therefore less load on the compressor or the possibility of using a smaller compressor's size.

5. Rolled cylinder

Less wear of the energized ties thanks to the low roughness of the surface

6. Stainless Steel shaft

Higher corrosion resistance

From sizes bigger than DAN15, NAMUR interface for solenoid valve is already integrated

No need for extra plate.

100% in- house manufacturing process technology

Maximum control and accuracy in all the stages of the manufacturing process

ATEX Certificate

Installation is allowed in a potential explosive environment

Up to SIL 3 Certified

Guarantee of the high level of functional safety.

features

TECHNICAL FEATURES

Torque from 15 Nm to 480 Nm.

Mounting flange according to ISO 5211; F03 - F05 - F07 - F10

In compliance with EN 15714-3.

Rotation angle: 92° (-1°, +91°)

Torque: directly proportional to the air supply (see table - general catalogue pneumatic actuator DA).

The code numbers after the DA letters, always correspond to the breakaway torque in Nm by 5,6 bar air supply.

Sizes from DA 60 direct connection with NAMUR solenoid valve.

Sizes DA15 - DA30 can be provided with NAMUR plate on request.

ATEX version in conformity with directive 2014/34/EU. Please add YX at the end of the code for ATEX version.

WORKING CONDITION

Temperature: from -20°C to +80°C.

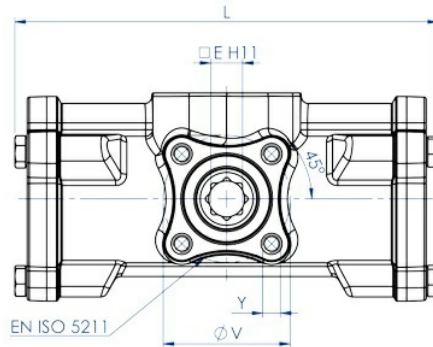
Air supply: 5,6 bar; maximum 8,4 bar.

Actuating media: filtered dry compressed air, not necessarily lubricated. In case of lubricated air, either non detergent oil, NBR compatible oil, must be used.

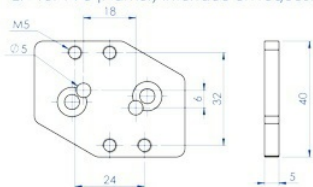


dimensions

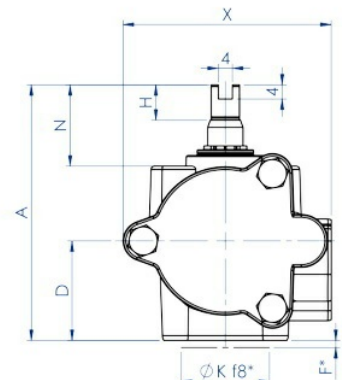
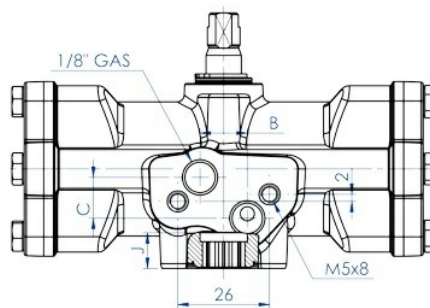
DA 15 ÷ DA 30



Interfaccia EN 15714-3 (Namur) a richiesta
EN 15714-3 (Namur) interface on request

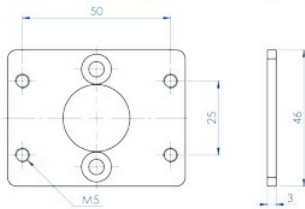


Optional Code KBNI4015

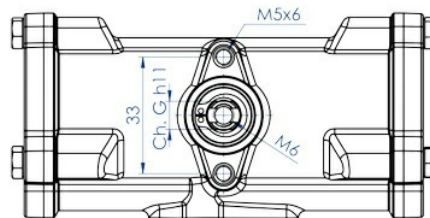


*Anello di centraggio
Centering ring

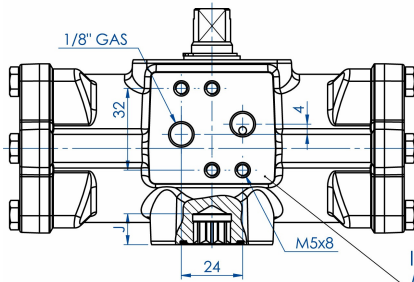
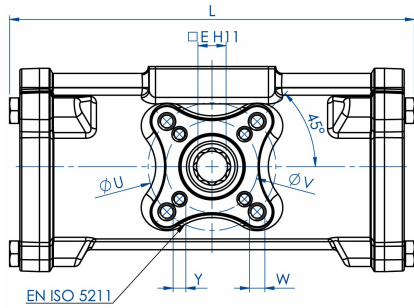
Interfaccia EN 15714-3 (Namur) a richiesta
EN 15714-3 (Namur) interface on request



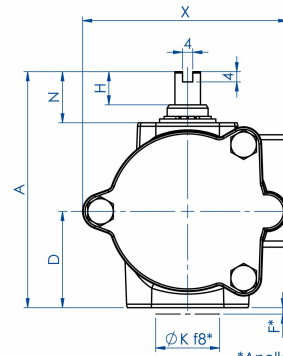
Optional Code KBVI4015



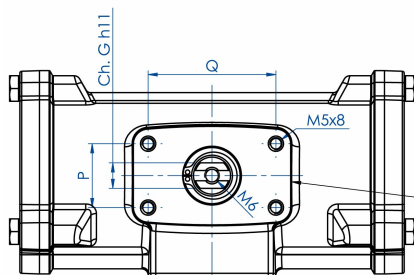
DA 60 ÷ DA 480



Interfaccia EN 15714-3 (Namur)
 EN 15714-3 (Namur) interface



*Anello di centraggio
 Centering ring

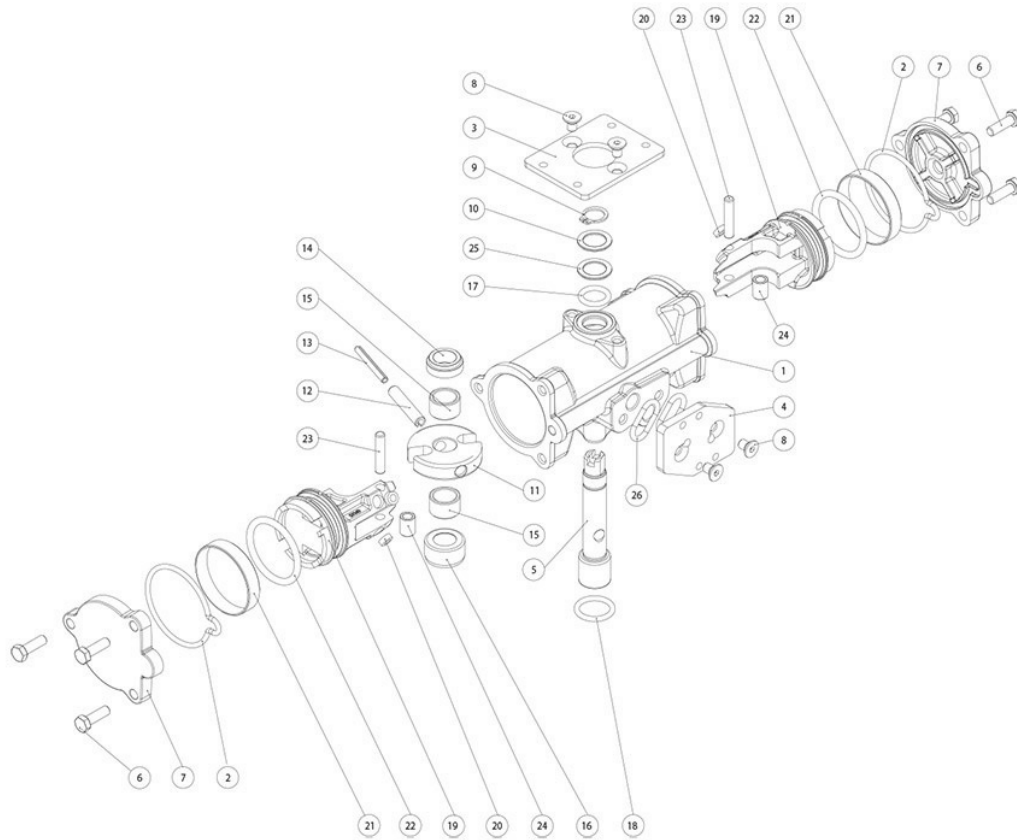


Interfaccia per accessori
 EN 15714-3 (VDI/VDE 3845)
 Accessories interface
 EN 15714-3 (VDI/VDE 3845)

DATA SHEET						
Code	DA015516S	DA030516S	DA060516S	DA120516S	DA240516S	DA480516S
Spare seals	KGXI0112	KGXI0114	KGXI0116	KGXI0118	KGXI0120	KGXI0122
Size	DA 15 F03	DA 30 F03	DA 60 F03-F05	DA 120 F05-F07	DA 240 F05-F07	DA 480 F07-F10
L mm.	120	134,6	158,4	192,9	246,8	298,4
A mm.	72,4	80,4	92,5	116,5	136,4	160
B mm.	13,4	11,6	-	-	-	-
C mm.	12	13	-	-	-	-
D mm.	28,2	32,7	37,7	46,2	56,2	68
E mm.	9	9	11	14	17	22
F mm.	2	2	2	3	3	3
Ch. G mm.	8	9	10	12	15	19
H mm.	10	10	13	13	17	19
N mm.	23	23	20	30	30	30
X mm.	59	68	80,3	94,4	117	139,7
J mm.	10,2	10,2	12,2	16,3	19,3	24,3
ØK mm.	25	25	25	35	35	55
Q mm.	50	50	50	80	80	80
P mm.	25	25	25	30	30	30
ØU mm.	-	-	50	70	70	102
ØV mm.	36	36	36	50	50	70
Y x prof. depth mm.	M5x9	M5x9	M5x9	M6x11	M6x11	M8x13
W x prof. depth mm.	-	-	M6x11	M8x15	M8x13	M10x22
air dm ³ /cycle	0,079	0,148	0,28	0,59	1,18	2,38
weight Kg.	0,8	1,2	1,8	3,3	5,6	9,5

materials

CASTING CF8M DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: DA 15-DA 30

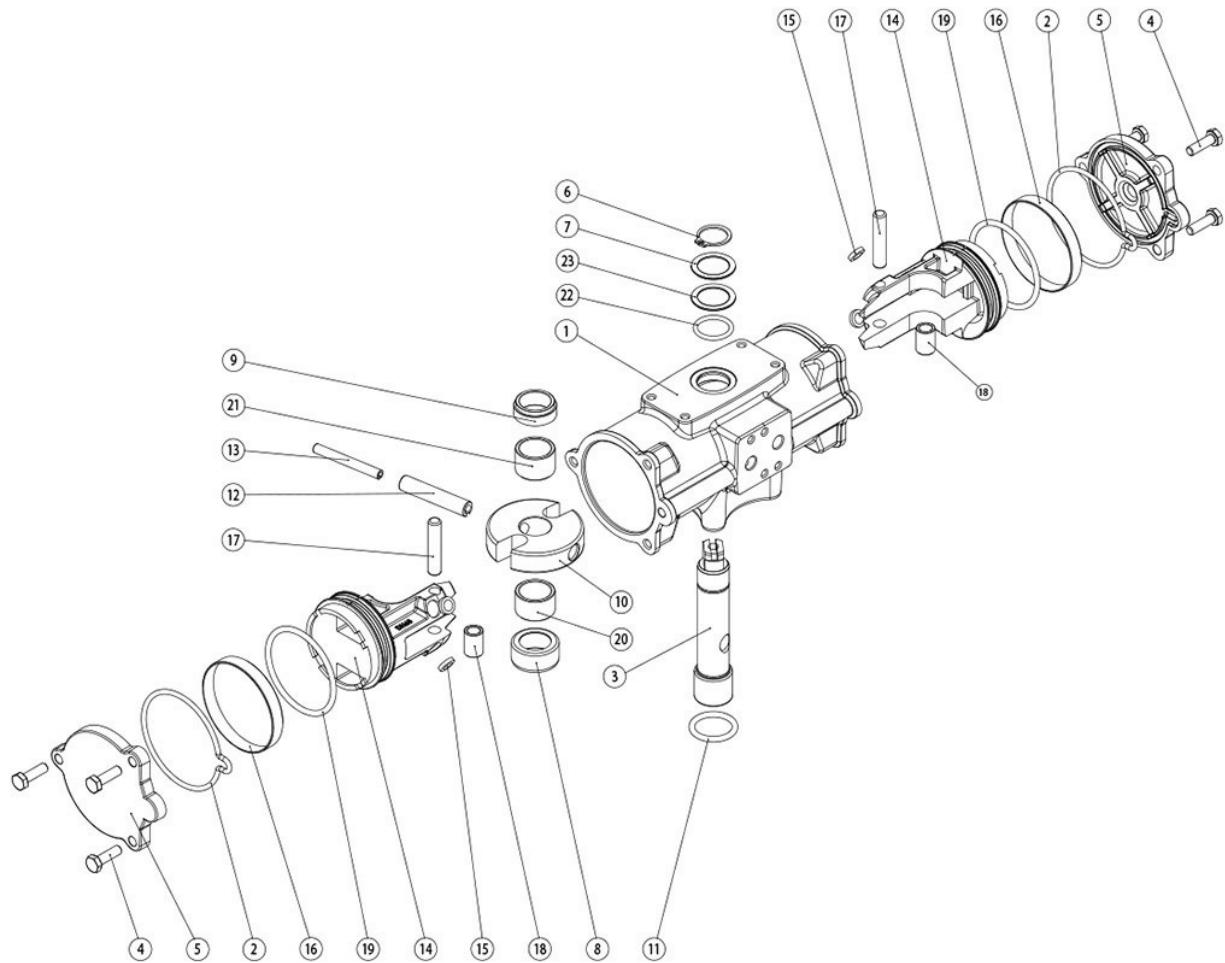


MATERIALS: DA 15 ÷ DA 30

Pos	Denomination	Q.ty	Material
1	Cylinder	1	Stainless steel CF8M
2*	Cap o-ring	2	Nitrilic rubber
3	Plate	1	Stainless steel
4	NAMUR plate	1	Stainless steel
5	Shaft	1	Stainless steel
6	Screw	6	Stainless steel
7	Cap	2	Stainless steel
8	Screw (optional)	4	Stainless steel
9	Seeger	1	Stainless steel
10	Washer	1	Stainless steel
11	Scotch yoke	1	Steel alloy
12	External elastic pin of the yoke	1	Steel alloy
13	Internal elastic pin of the yoke	1	Steel alloy
14	Upper shaft support	1	Acetalic resins
15	Support bush	2	Acetalic resins
16	Lower shaft support	1	Acetalic resins
17*	O-ring (upper sealing shaft)	1	FKM
18*	O-ring (low sealing shaft)	1	FKM
19	Piston	2	Aluminium alloy
20*	Piston's support	4	P.T.F.E. carbo-graphite filled
21*	Dynamic seal (piston)	2	Polyurethane
22*	Piston o-ring	2	Nitrilic rubber
23	Rotative sleeve	2	Steel alloy
24	Bush	2	Steel alloy
25*	External support ring	1	Acetalic resins
26	O-ring (optional)	2	Nitrilic rubber

* Components of spare part kit

CASTING CF8M DOUBLE ACTING PNEUMATIC ACTUATOR COMPONENTS SIZE: DA60-DA480

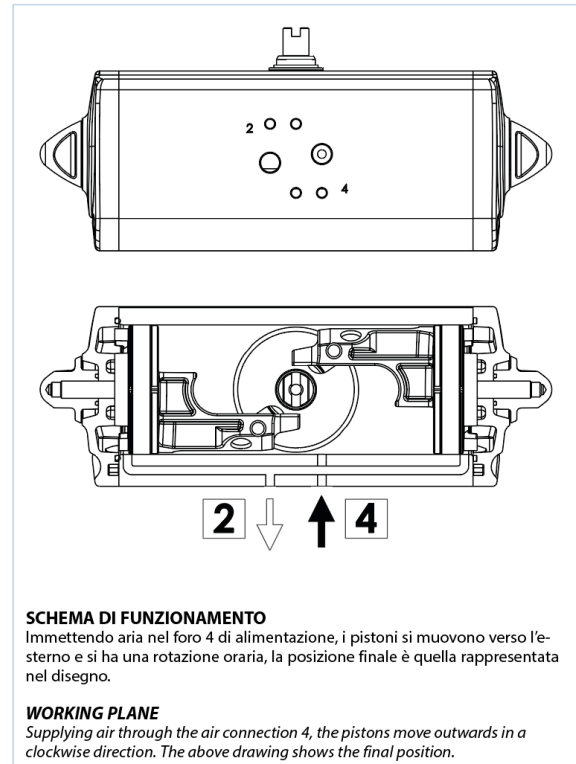
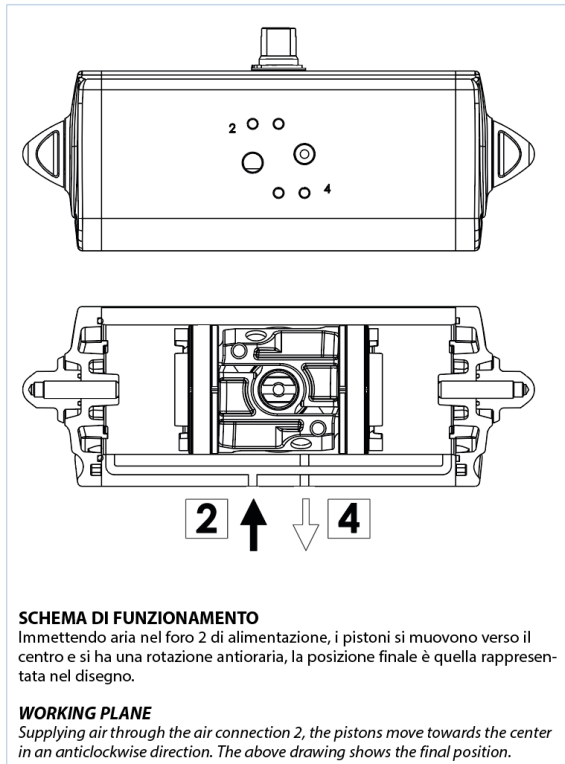


MATERIALS			
Pos	Denomination	Q.ty	Material
1	Cylinder	1	Stainless steel
2*	Cap o-ring	2	Nitrilic rubber
3	Shaft	1	Stainless steel
4	Screw	6	Stainless steel
5	Cap	2	Stainless steel
6	Seeger	1	Stainless steel
7	Washer	1	Stainless steel
8	Lower shaft support	1	Acetalic resins
9	Upper shaft support	1	Acetalic resins
10	Scotch yoke	1	Steel alloy
11*	O-ring (low sealing shaft)	1	FKM
12	External elastic pin of the yoke	1	Steel alloy
13	Internal elastic pin of yoke	1	Steel alloy
14	Piston	2	ALuminium alloy
15*	Piston's support	4	P.T.F.E. carbo-graphite filled
16*	Dynamic seal (piston)	2	Polyurethane
17	Rotative sleeve	2	Steel alloy
18	Bush	2	Steel alloy
19*	Piston o-ring	2	Nitrilic rubber
20	Suwer support bush	1	Acetalic resins
21	Upper support bush	1	Acetalic resins
22*	O-ring (upper sealing shaft)	1	FKM
23*	External support ring	1	Acetalic resins

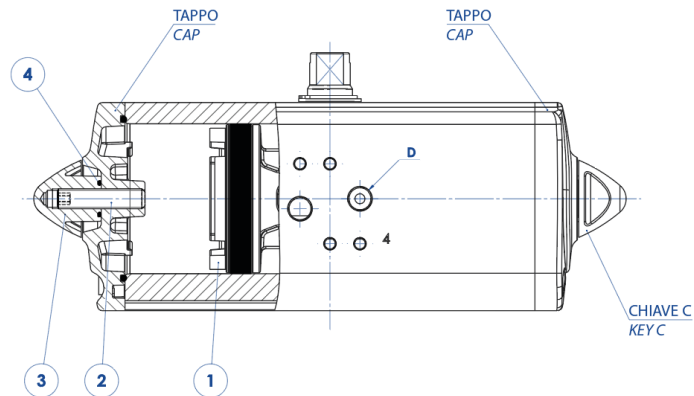
*Components of spare part kit

specifications

WORKING PLANE PNEUMATIC ACTUATOR "DA" TYPE



ATTUATORE REGOLABILE-ISTRUZIONI PER L'UTILIZZO ACTUATOR WITH STROKE ADJUSTMENT-INSTRUCTIONS



- A)** Immettere aria nel foro "D" in modo che i pistoni (part. n°1) si vengano a trovare in posizione di finecorsa verso i tappi.
B) Togliere il controdado (part. n°3) agendo sulla chiave C.
C) Togliere l'aria di alimentazione.
D) Con una chiave a brugola agire sulle viti (part. n°2) ed effettuare la limitazione di corsa desiderata.
N.B. La corsa può essere limitata per un massimo di 10° da 80° a 90°. Altre regolazioni disponibili a richiesta.
E) Mettere aria nel foro "D", verificare che entrambe le viti (part. n°2) siano a battuta contro i pistoni.
F) Mettere il controdado (part. n°3) munito di O-ring (part. n°4) per la tenuta tra dado e tappo.

- A)** Supply air through the air connection D so that the pistons (Part. 1) move to the end-stroke position, towards the caps.
B) Remove the counter nut (part. 3) acting on the C key.
C) Shut off the air supply.
D) Adjust the end stroke as desired, acting on the screws (part 2) with an hexagonal key.
Note: maximum adjusting stroke 10°, ranging from 80° to 90°. Other regulations on request.
E) Supply air through the air connection D and check that both screws stop the pistons.
F) Screw the counter-nut (part 3) and its o-ring (part 4) to keep nut and cap tight.



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documents

Certificati

[ATEX - Pneumatic Actuators](#)

[SIL EN 61508 - Actuators: SR, SRN, DA, DAN](#)

[Type Approval Certificate for Marine and machinery systems and equipment](#)

Istruzioni

[ISTRUZIONI ATEX UITGOG01ATX](#)

[ISTRUZIONI USO 8_0842](#)

Manuali

[MANUALE UMA800081B](#)