italberta

BAIBY

“BAIBY” TYPE ROTARY PNEUMATIC ACTUATOR

TECHNICAL SPECIFICATIONS

MATERIALS:

- **AISI 304** stainless steel (AISI 316 on request)
- Nylon 6.6 with **50% glass fibr**e reinforcement
- Connection dimensions in accordance with **DIN ISO 5211 and NAMUR** standards
- Operating temperature **-20°C to +110°C**
- Maximum pressure **10 bar**

OPTIONS:

- Electric or magnetic limit switches
- Pilot solenoid valve
- Positioner

ON REQUEST

- Colour customisation available for adequate quantities

ADVANTAGES OVER SYSTEMS USED TO DATE

BAIBY rotary actuators, with the same torque output, stand out from all other actuators on the market for the following characteristics:

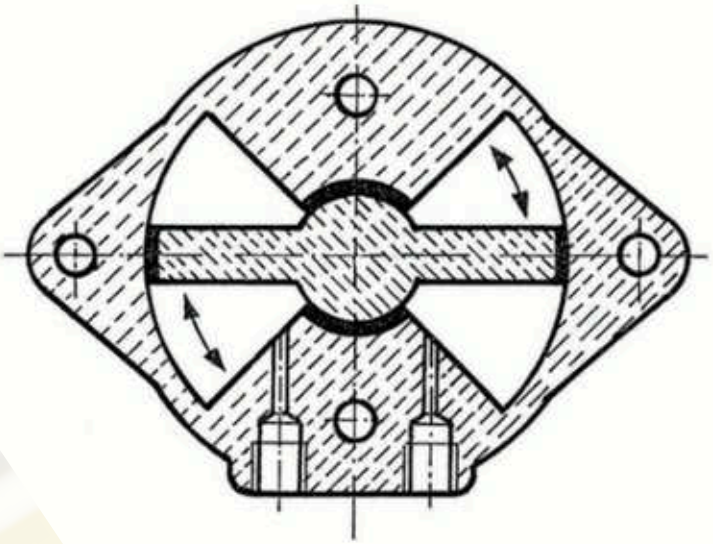
- MINIMUM FOOTPRINT
- LOW WEIGHT
- REDUCED AIR CONSUMPTION

Thanks to the balance of forces, the use of self-sealing seals and high efficiency, these actuators are extremely **compact and efficient.**

This combination of features not only offers a **technical advantage**, but also enables significant **cost** savings.

The use of plastic materials and AISI 304 or AISI 316 stainless steel gives the actuators numerous advantages, including:

- Smooth operation in humid, acidic environments or even when submerged.
- Power supply compatible with fluids other than air, such as oil, water or other fluids compatible with stainless steel and the plastics used.
- Mechanical parts are indestructible and unalterable over time, thanks to a design that eliminates wear and tear.
- Seal replacement required after at least 1,000,000 operations



APPLICATIONS

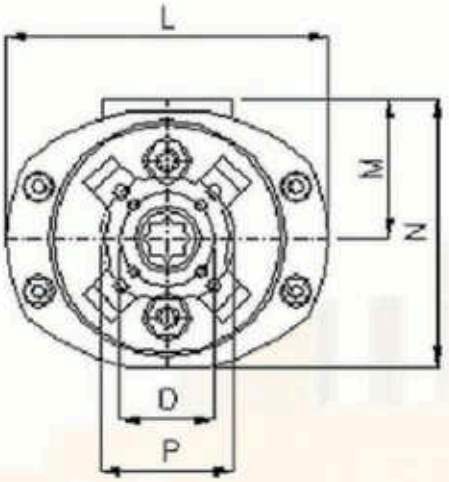
The Baiby actuator is ideal for motorising valves that require a 90° rotation angle, with a maximum torque requirement of up to 700 N·m (at 6 bar).

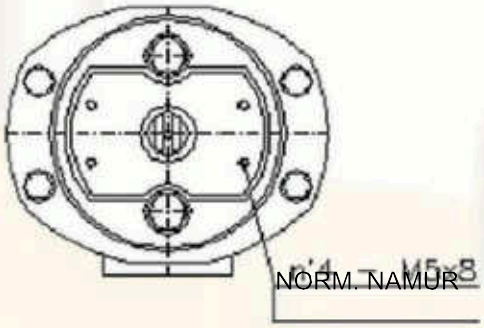
The **quality of the materials** used makes it particularly competitive for all applications that require devices made entirely of stainless steel or that require specific surface treatments with resins.
In these cases, the **cost** is extremely **advantageous**, while ensuring **high resistance** to corrosive agents and long life.

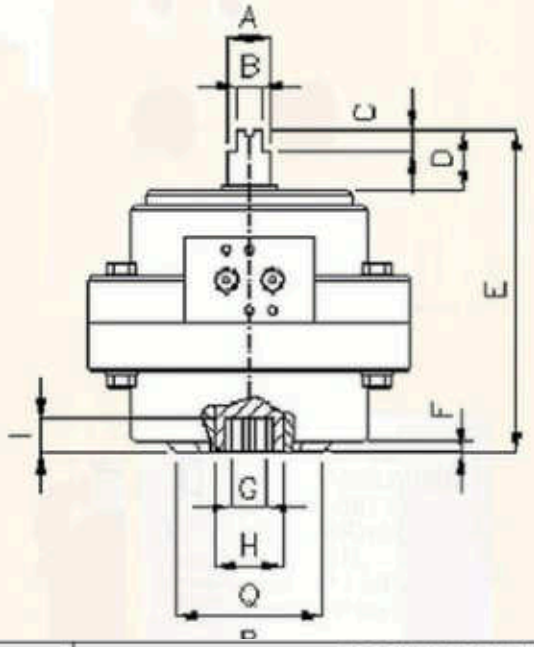
Main areas of application:

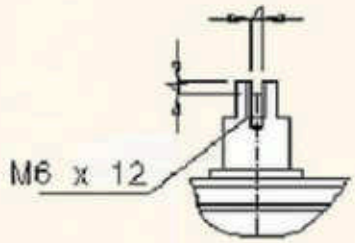
- Pneumatic transport and automation in general
- Chemical and petrochemical industry, refineries
- Marine environments and offshore installations, desalination plants, pure and waste water treatment, swimming pools
- Shipbuilding facilities
- Food and wine industry
- Pharmaceutical, healthcare, cosmetics and biotechnology sectors
- Highly corrosive environments in general

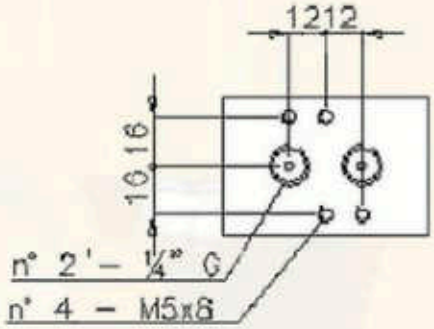
DIMENSIONS











ATTUATORE ACTUATOR	COPPIE RESE (Nm) - TORQUE VALUES									PESO WEIGHT (kg)	CONSUMO CONSUME (l)
	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	9 bar	10 bar		
BAIBY 0	8	12	18	24	30	36	42	48	54	1	0,1
BAIBY 1	12	24	36	48	60	72	84	96	108	1,6	0,21
BAIBY 2	35	60	85	110	135	160	185	210	235	2,65	0,42
BAIBY 3	80	135	190	245	300	355	410	465	520	5,1	1,02
BAIBY 4	180	310	440	570	700	830	960	1090	1220	9	2,02

TIPO TYPE	A	B	C	D	E	F max	G	H	I	L	M	N	O	P	Q	R
BAIBY 0	16	10	10	30	135	9	11	16	14	112	48	96	ISO F03 36 - n°4 holesM5x8	ISO F05 50 - n°4 holesM6x10	65	80
BAIBY 1	20	13	12	30	145	13	14	26	22	142	62	118	ISO F05 50 - n°4 holesM6x10	ISO F07 70 - n°4 holesM8x13	90	100
BAIBY 2	22	13	12	30	168	13	17	30	25	170	74	141	ISO F05 50 - n°4 holesM6x10	ISO F07 70 - n°4 holesM8x13	90	125
BAIBY 3	25	17	14	30	229	15	22	40	30	204	88	169	ISO F07 70 - n°4 holesM8x13	ISO F10 ** 102 - n°4 holesM10x16	125	155
BAIBY 4	36	27	18	40	285	22	27	55	36	230	106	206	ISO F10 ** 102-n°4 holesM10x16		150	180
BAIBY 4	36	27	18	40	285	22	27	55	36	230	106	206	ISO F12 ** 125-n°4 holesM12x20		150	180

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