



M79P Pneumatic Actuator

Asahi America, Inc. has expanded the pneumatic actuator product line. The double acting (air to air) M79PN pneumatic actuator can produce up to 40,441 inch pounds of output torque based on an 80 psi air supply. The single acting (air to spring) M79PSN pneumatic actuator can produce up to 15,660 inch pounds of output torque based on an 80 psi air supply.

Standard Features

- Aluminum alloy body with Cathaphoresis and Rilsan coating inside and outside for maximum corrosion resistance
- Aluminum alloy end caps with Cathaphoresis and Rilsan coating inside and outside for maximum corrosion resistance
- Cathaphoresis coated steel output shaft with double o-ring seal on top and bottom
- Aluminum alloy pistons
- Nylon piston guides
- PTFE and Bronze piston guide rings
- Stainless Steel external hardware
- Temperature Range: -25 F to 195 degrees F
- Self-lubricating BUNA-N O-Rings
- Output torque range: 15,660 in/lbs to 40,441 in/lbs at 80 psi
- Supply Air: 80 psi nominal
60 psi minimum
120 psi maximum
- Air connections: 1/4" FNPT
- Powered with air, non combustible gas, or non-aggressive fluid
- 6 ° adjustable travel stops (-4 °, +2 °)
- ISO and NAMUR mounting dimensions
- Captive springs for single acting actuator

Options

- Filter Regulator
- NAMUR mount solenoid with NEMA 4X or NEMA 7 enclosure rating
- Auxiliary limit switches with NEMA 4X or NEMA 7 enclosure rating
- Pneumatic positioner (3-15 psi)
- Electro-Pneumatic positioner (4-20mA) with optional transmitter
- AS-I Bus



Sample Specifications

Series 79 Pneumatic Actuators shall be double piston, double rack and pinion design with body and end caps manufactured of aluminum alloy with Cathaphoresis and Rilsan coating inside and outside. Shaft shall be Cathaphoresis coated steel with double o-ring seals on top and bottom. Actuators can be powered with air, non-combustible gas, or non-aggressive fluid, and shall have 1/4" FNPT air connections. Visual position indicator and 6 degree adjustable travel stops shall be standard features. Single acting versions (spring return) shall have captive spring sets. All actuators shall have ISO bolt circle and NAMUR mounting dimensions for the installation of optional accessories, as manufactured by Asahi America.

Engineering Specifications

Size: M79P

Body and End Cap Material: Aluminum alloy with cathaphoresis and Rilsan 2-part coating (inside & outside)

Output shaft: Steel with cathaphoresis coating

Torque: 15,660 in/lbs for single acting model
40,441 in/lbs for double acting model

Temperature Range: -25 °F - 195 °F

O-Ring Material: Self-lubricating BUNA-N

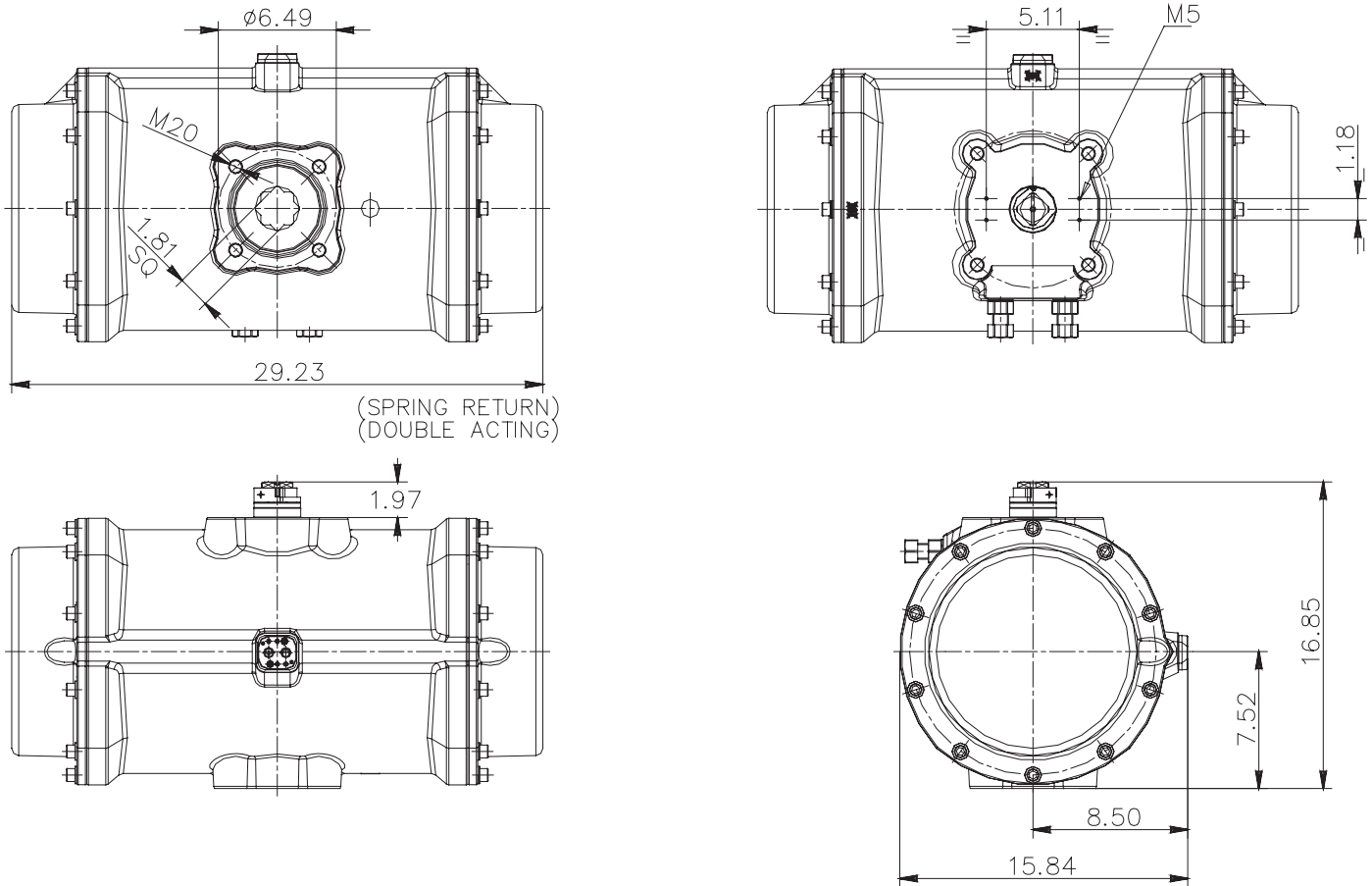
Air Connections: 1/4" NPT

Mounting Dimensions: ISO and NAMUR Standards

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2D- Drawings



Torque Air to Air (In/Lbs)

Model	Supply Pressure (psi)				
	40	60	80	100	120
M79P	19,351	29,816	40,441	51,432	62,102

Torque Air to Spring (In/Lbs)

Model	Spring Set	40 psi		60 psi		80 psi		100 psi		120 psi		Spring Torque	
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
M79P	2	14,573	9,795	24,444	19,071	34,704	28,968	-	-	-	-	10440	5220
	3	12,184	5,017	21,757	13,699	31,836	23,233	43,756	36,079	-	-	15660	7830
	4	-	-	19,071	8,327	28,968	17,497	41,197	30,962	51,349	40,595	20880	10440
	5	-	-	-	-	26,100	11,759	38,638	25,844	48,660	35,218	26100	13050
	6*	-	-	-	-	23,233	6,023	36,079	20,726	45,973	29,841	31320	15660

* Number of springs in standard unit