



**VALVE AND FLOW CONTROL SPECIALISTS**  
*SERVICE AND RELIABILITY*

## 180 Degree Pneumatic Rack and Pinion Actuator

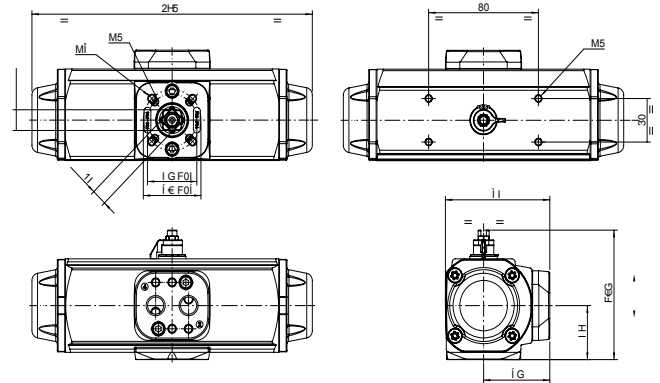
The majority of Pneumatic Actuators are 90 Degree, the 180 degree actuators allow rotation suitable for diverting valves. Available in Double Acting and Spring Return

### Materials of Construction

Description	Quant.	Material
CAP COUNTERSUNK SCREW	8	AISI-304 STAINLESS STEEL
CAP	2	ALUMINIUM ALLOY (2) + (7)
CAP-O-RING	2	N.B.R.
PISTON	2	ALUMINIUM ALLOY (2)
CYLINDER	1	ALUMINIUM ALLOY (2) + (1)
WASHER	1	POLYACETAL
SPRING CLIP	1	STAINLESS STEEL
POSITION INDICATOR	1	POLYACETAL
PISTON GUIDE	2	NYLON
GUIDE RING	2	POLYACETAL + Mb
PISTON O-RING	2	N.B.R.
SHAFT O-RING	2	N.B.R.
SHAFT O-RING	2	N.B.R.
SPRINGS SET	2	DIN-17223-C (2) (4)
BASE PLATE (ISO-5211)	1	POLYAMIDE + FG
SHAFT	1	POLYAMIDE + S.S. INSERT
DRIVE ADAPTER	1	AISI-316 STAINLESS STEEL
ALLEN SCREW	2	AISI-304 STAINLESS STEEL
NUT	4	AISI-304 STAINLESS STEEL
PLATE O-RING	2	N.B.R.
NUT	4	AISI-304 STAINLESS STEEL
PNEUMATIC CONNECTION PLATE	1	POLYAMIDE + FG
PLATE ALLEN SCREW	2	AISI-304 STAINLESS STEEL



AG\$\$	8 Cl 6 @ '57 H&B; AIR PRESSURE 'H&feI Yg							
bar	3	4	4,5	5	5,5	6	7	8
p.s.i	43,5	58	65,3	72,5	79,8	87	101,5	116
Nm	FH,H	1i,3AG	1i,3AG	1i,3AG	1i,3AG	1i,3AG	1i,3AG	1i,3AG
Lb.in	FFI,i	1i,3AG	1i,3AG	1i,3AG	1i,3AG	1i,3AG	1i,3AG	1i,3AG



AGWS	Values SPRING TORQUES		AIR TORQUE AT INDICATED PRESSURE																bar																
			3		4		4,5		5		5,5		6		7		8			p.s.i															
N	INITIAL	END	INITIAL	END	INITIAL	END	INITIAL	END	INITIAL	END	INITIAL	END	INITIAL	END	INITIAL	END	INITIAL	END																	
4*	F1,i	F1,i	[REPEATED PATTERNS]														Nm																		
	F1,i	F1,i	[REPEATED PATTERNS]														Lb.in																		
3	F1,i	F1,i	[REPEATED PATTERNS]														Nm																		
	F1,i	F1,i	[REPEATED PATTERNS]														Lb.in																		
2	FF,7	103	77,0	40,7	14,2	85,0	58,4	108,0	81,4	130,1	103,5	153,1	126,6	175,2	148,7	220,4	193,8	265,5	239,0	Lb.in															
	6,6	58,4	5,1	45,1	8,2	72,6	6,7	59,3	11,7	116,8	15,8	103,5	14,3	139,8	18,3	126,6	16,8	162,0	20,9	148,7	20,9	148,7	23,4	171,7	21,9	153,1	28,5	207,1	27,0	193,8	33,6	252,2	32,1	239,0	284,1

N: Number of springs each side

\* Number of springs in standard actuator