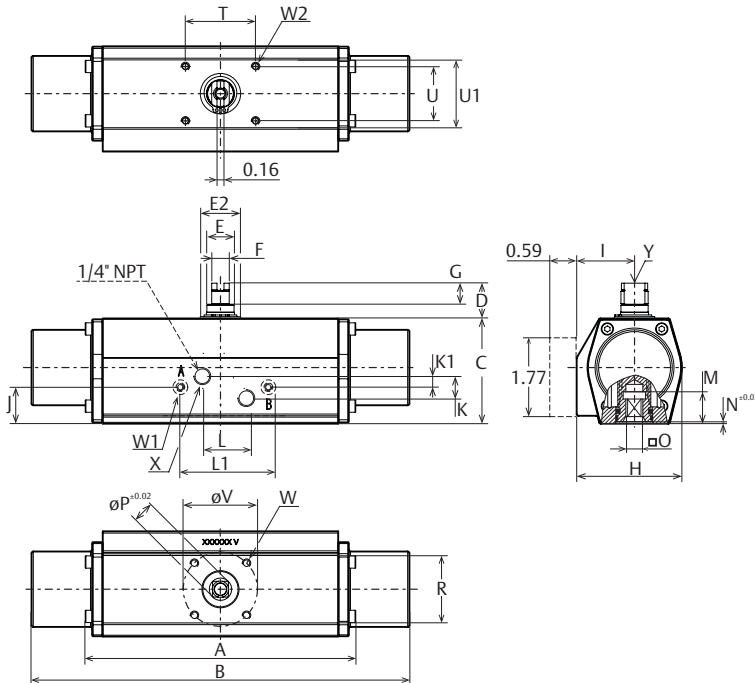


Data sheet F12 180° Rotation

Imperial - ISO5211



Dim. in inches		Size 12									
A (FD)	B (FS)	C	D	E	E2	F	G	H	I		
6.10	8.50	2.36	0.79	0.63	0.91	0.39	0.47	2.36	1.30		
J	K	K1	L	L1	M	N	O max.	O min.	P		
0.83	0.50	0.25	1.00	2.00	0.65	0.039	0.358	0.354	0.476		
R	R1	T	U	V	W	W1	W2	X	Y		
1.57	1.57	1.57	1.22	1.654	10-24 UNC x0.24"	10-24 UNC x0.20"	10-24 UNC x0.20"	G1/8"	M6 x.047		

Principle		
Pneumatic rack & pinion actuator		
General Data		
Bore		1.811 inch
Stroke		0.992 inch
Weight	SR ⁽³⁾	2.2 lb
	DA ⁽³⁾	1.9 lb
Volume	Port A	8.2 cu.in.
	Port B	6.5 cu.in.
Air connection		2x 1/8" NPT
Pressure range	MOP ⁽³⁾	120 psig
	SR ⁽³⁾	43-120 psig
	DA ⁽³⁾	3-120 psig
Pressure media	Clean, dry or lubricated air or inert gas.	
Cycle speed DA ⁽²⁾	Open	0.5 Sec.
	Close	0.4 Sec.
Cycle speed SR ⁽²⁾	Open	0.5 Sec.
	Close	0.4 Sec.
Temperature range	-4 °F to +176 °F	
Lubrication	Lubricated for life ⁽¹⁾	
Stroke	180°	
Finish	Polyurethan powder coat	

1. According EN 15714-3.
2. Test conditions:
Solenoid with flow capacity: 0.6 m³/hr;
Pipe diameter: 6 mm; Medium: clean air,
Supply pressure: 5.5 barg ~ 80 psig;
Load: with average load; Stroke: 90°;
Temperature: Room temperature
3. SR = Spring-Return, DA = Double-Acting
MOP = Maximum Operating Pressure

Torque Output F12 180°																		
Spring-Return																		
Spring set	Spring Stroke Torque		Air Stroke Torque (lbf.in)															
			40 psig		50 psig		60 psig		70 psig		80 psig		90 psig		100 psig		120 psig	
	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
20	63	40	-	-	-	-	49	22	65	38	81	53	96	69	112	85	144	117
Double-Acting			59		74		89		104		119		134		149		179	

Notes:

- Volume is the actual free air volume at 1 atm
- Flange and square drive to ISO5211
- For further information regarding options, materials, certifications and additional execution please contact your Regional Sales Office.

European Directives:

- PED: Suitable for use with group 2 gases according to Pressure Equipment Directive (PED) 2014/68/EU
- ATEX: Suitable for use in hazardous areas classified II 2 GD, zones 1 or 2 (gases) and 21 or 22 (dust) according to ATEX Directive 2014/34/EU
- For the Configuration Code please consult EFG.02.01.EN