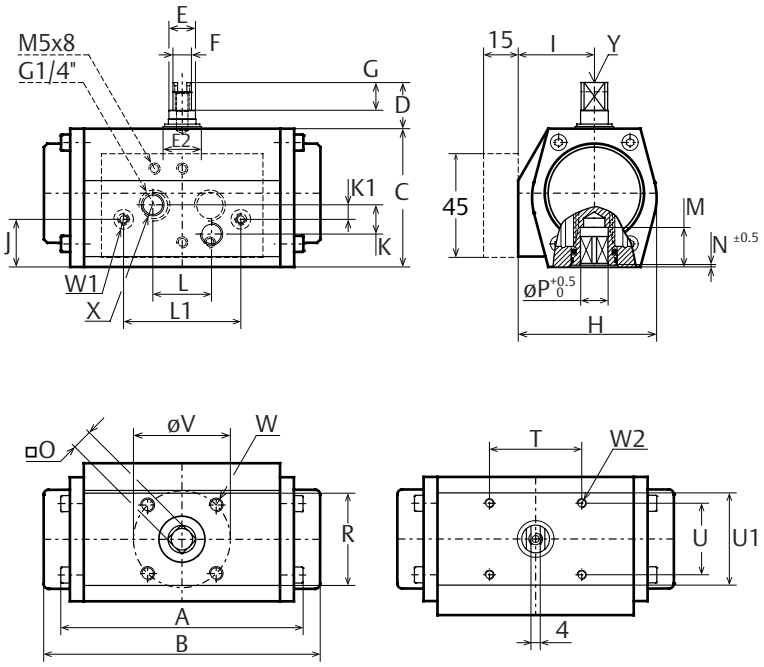
Data sheet F 12

Metric - DIN3337



Principle			
Pneumatic rack & pinion actuator			
General data			
Bore		46	mm
Stroke		12.6	mm
Weight	SR	0.6	kg
	DA	0.7	kg
Volume	Port A	0.05	L
	Port B	0.06	L
Air connection		2x G1/8"	(BSP)
Pressure range	MOP	8.3	barg
	SR	3-8.3	barg
	DA	0.2 - 8.3	barg
Pressure media		Clean, dry or lubricated air or inert gas.	
Cycle speed DA (2	Open	0.4	Sec.
	Close	0.4	Sec.
Cycle speed SR (2	Open	0.4	Sec.
	Close	0.4	Sec.
Temperature range		-20°C to +80°C	
Lubrication		Lubricated for life (1	
Stroke		90°	
Finish		Polyurethan powder coat	

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

Dim. in mm		Size 12							
A FD	B FS	C	D	E	E2	F	G	H	I
103	118	60	20	16	23	10	12	60	33
J	K	K1	L	L1	M	N	O max.	O min.	P
21	12.7	6.4	25.4	50.8	16.5	1	9.14	9.05	12.1
R	R1	T	U	V	W	W1	W2	X	Y
40	40	40	31	42	M6x8	M4x7	M4x7	G1/8"	M6x12

Torque Output																							
Spring Return																							
Spring set	Spring Stroke Torque		Air Stroke Torque (Nm)																				
			3.0 barg		3.5 barg		4.0 barg		4.5 barg		5.0 barg		5.5 barg		6.0 barg		7.0 barg		8.0 barg				
	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	Start	Start	End	Start	End			
20	7.0	5.0	-	-	3.7	0.7	5.0	2.0	6.3	3.3	7.6	4.6	8.9	5.9	10.2	7.2	12.8	9.8	14.1	11.1			
Double acting			7.3		8.5		9.7		10.9		12.2		13.4		14.6		17.1		19.6				

Notes:

- Volume is the actual free air volume at 1 atm
- Flange and square drive to ISO 5211
- Solenoid mounting interface according to VDI/VDE 3845 (NAMUR)
- 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 97/23/EC
- ATEX : suitable for use in hazardous areas classified II 2 GD, zones 1 or 2 (gases) and 21 or 22 (dust)
- For the configuration code please consult EFG.02.01.EN