

Performance Parameters	Symbol	Unit	AVM100-HF-30
Stroke	S	mm	30.0
Continuous Force @100°C ^{[1][2]}	F _c	N	309.5
Peak Force ^[2]	F _{pk}	N	1241.9
Force Constant ±10% ^[2]	K _f	N/A	88.4
Back EMF Constant ±10% ^[2]	K _e	V/(m/s)	88.4
Motor Constant @25°C ^[2]	K _m	N/Sqrt(W)	39.2
Resistance @25°C ±10% ^[3]	R ₂₅	Ω	5.10
Inductance ±20% ^[4]	L	mH	7.78
Electrical Time Constant	T _e	ms	1.53
Continuous Current @100°C ^[1]	I _c	A	3.5
Peak Current	I _{pk}	A	14.0
Continuous Power Dissipation @100°C ^[1]	P _c	W	80.5
Max. Coil Temperature	t _{max}	°C	100
Thermal Dissipation Constant ^[1]	K _{th}	W/°C	1.074
Max. Voltage	U _{max}	Vdc	120
Coil Mass	m _{coil}	g	2012.9
Core Mass	m _{core}	g	5485.7
Running Clearance	L _{gap}	mm	0.65

[1] Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment.

[2] The values are at mid stroke.

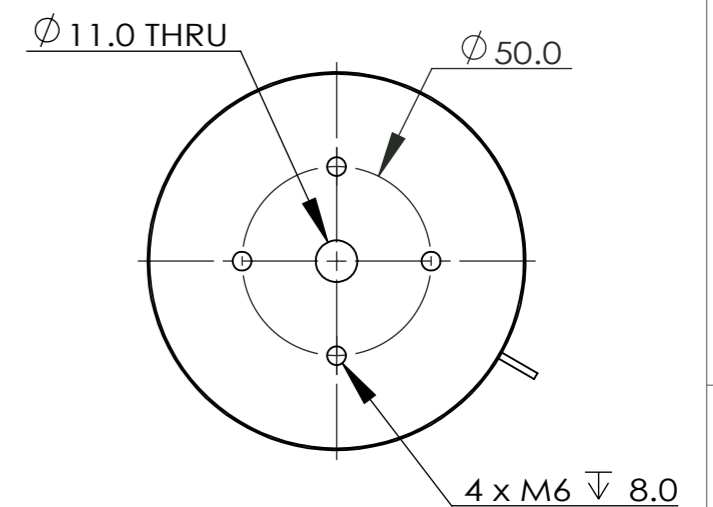
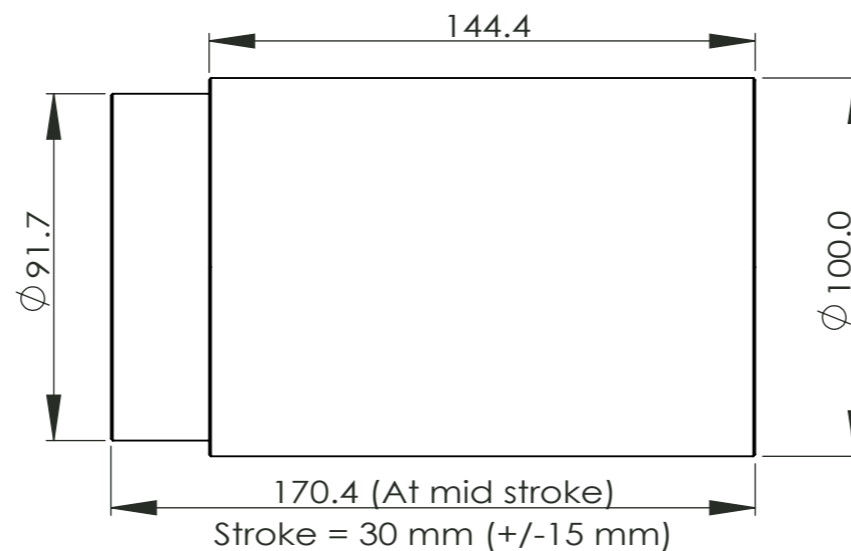
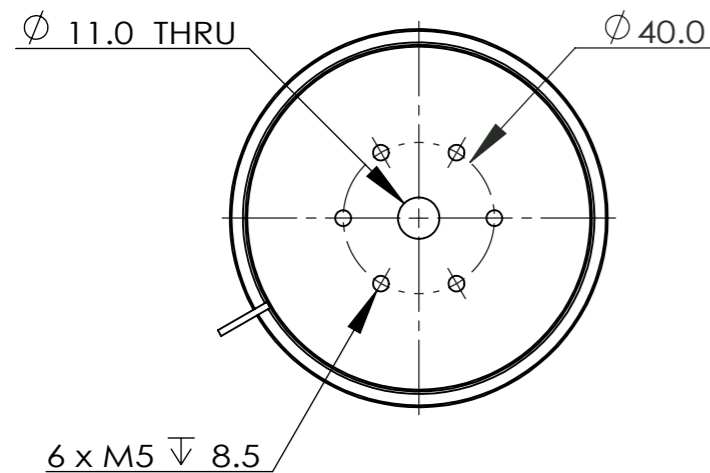
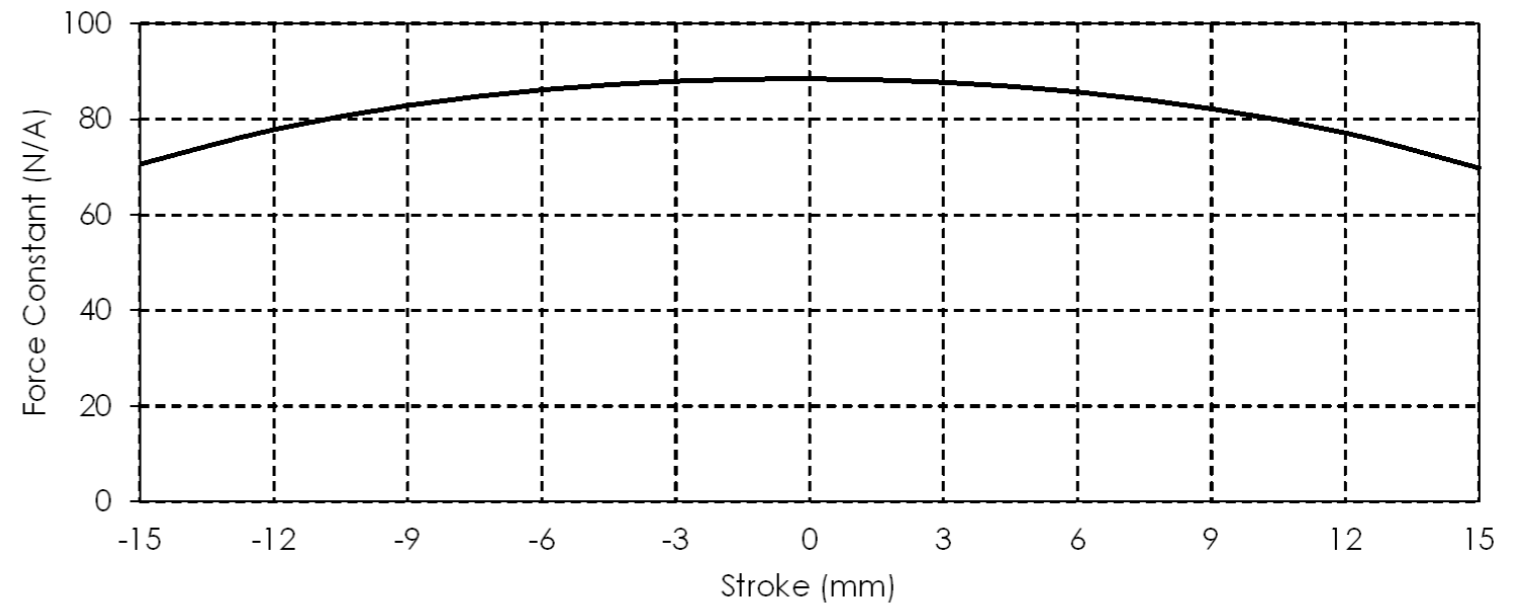
[3] Resistance is measured by DC current with 0.5 m lead wire.

[4] Inductance is measured by current frequency of 1 kHz.

The contents of datasheet are subject to change without prior notice.

AVM100-HF-30

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	SL	2021/10/26	YX



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UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS IN mm
REMOVE ALL SHARP EDGES

GENERAL
TOLERANCE
X ± 0.25mm
X.X ± 0.1mm
X.XX ± 0.05mm
X.XXX ± 0.025mm



Designed	SL	2021/10/25
Drawn	SL	2021/10/25
Checked	YH	2021/10/26
Approved	YX	2021/10/26
Material	NA	
Surface Treatment	NA	
Heat Treatment	NA	
Quantity	NA	



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Model:	AVM100-HF-30_Customer Drawing
Title:	AVM100-HF-30_Customer Drawing
Dwg No:	AVM100-HF-30
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Rev:	0