

8	7	6	
Performance Parameters	Symbol	Unit	AVM40-5
Stroke	S	mm	5.0
Continuous Force @100°C <sup>[1][2]</sup>	F <sub>c</sub>	N	6.45
Peak Force <sup>[2]</sup>	F <sub>pk</sub>	N	38.9
Force Constant ±10% <sup>[2]</sup>	K <sub>f</sub>	N/A	8.37
Back EMF Constant ±10% <sup>[2]</sup>	K <sub>e</sub>	V/(m/s)	8.37
Motor Constant @25°C <sup>[2]</sup>	K <sub>m</sub>	N/Sqrt(W)	3.90
Resistance @25°C ±10% <sup>[3]</sup>	R <sub>25</sub>	Ω	4.60
Inductance ±20% <sup>[4]</sup>	L	mH	2.15
Electrical Time Constant	τ <sub>e</sub>	ms	0.47
Continuous Current @100°C <sup>[1]</sup>	I <sub>c</sub>	A	0.8
Peak Current	I <sub>pk</sub>	A	4.5
Continuous Power Dissipation @100°C <sup>[1]</sup>	P <sub>c</sub>	W	3.5
Max. Coil Temperature	t <sub>max</sub>	°C	100
Thermal Dissipation Constant <sup>[1]</sup>	K <sub>th</sub>	W/°C	0.047
Max. Voltage	U <sub>max</sub>	Vdc	60
Coil Mass	m <sub>coil</sub>	g	40.3
Core Mass	m <sub>core</sub>	g	124.7
Running Clearance	L <sub>gap</sub>	mm	0.60

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

[2] The values are at mid stroke.

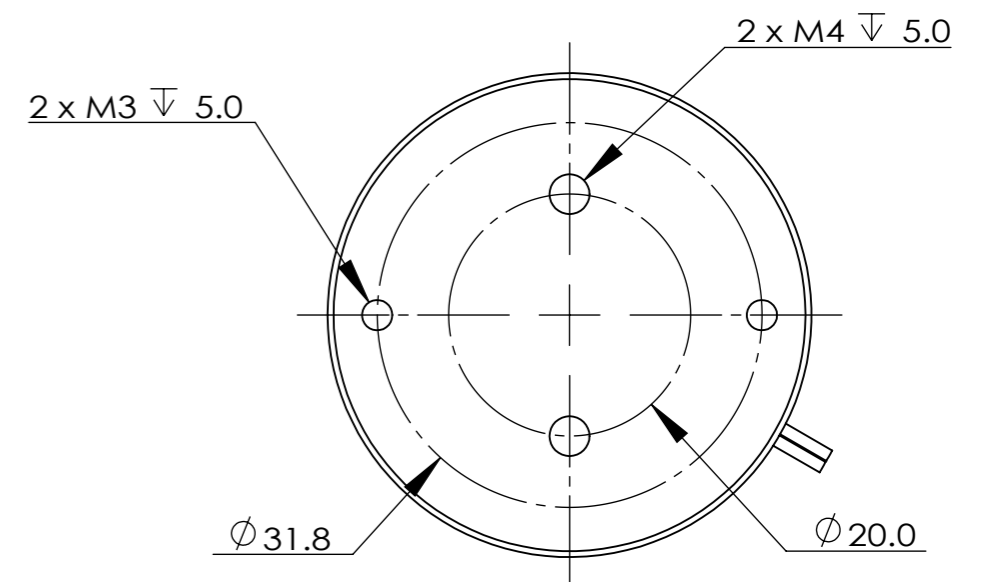
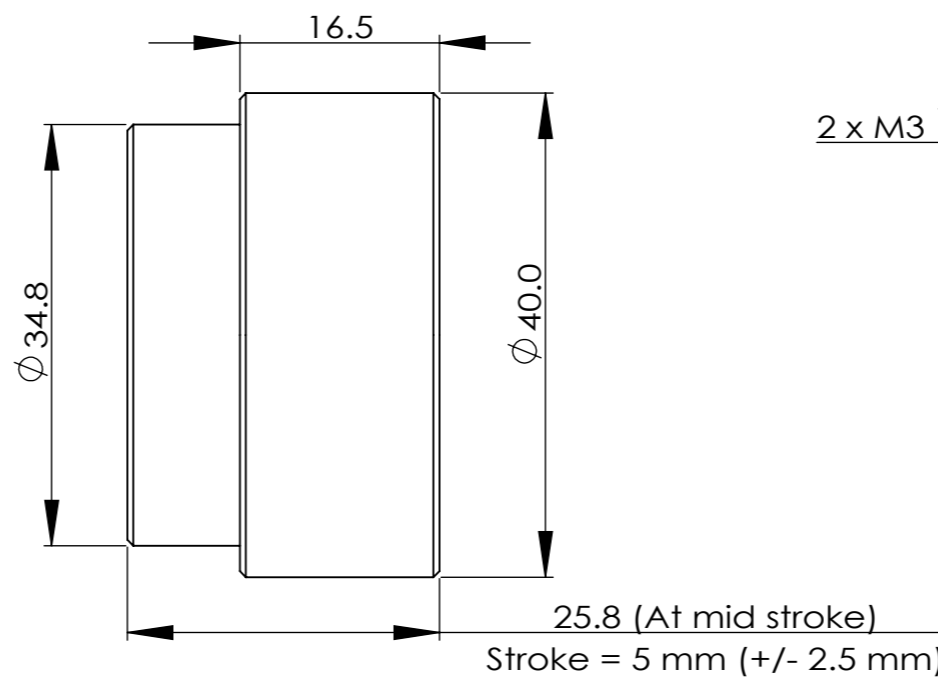
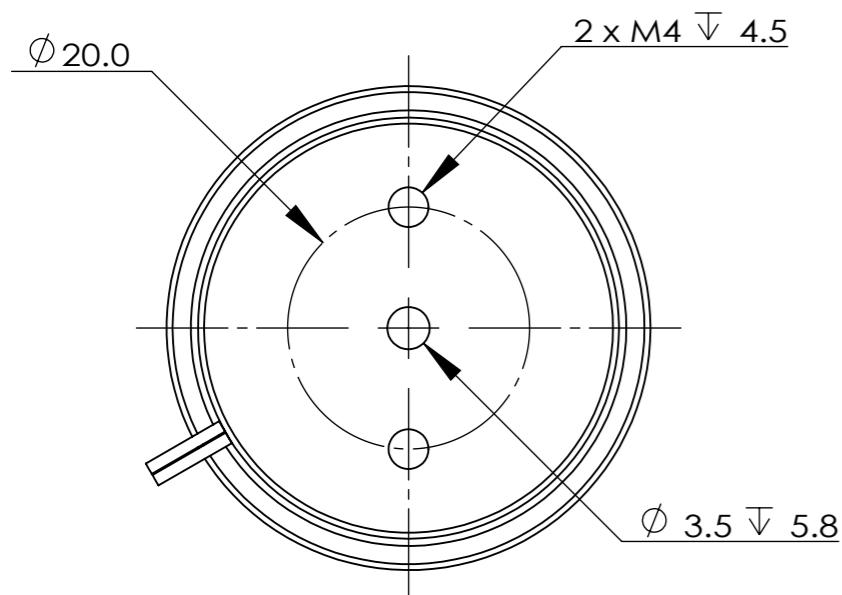
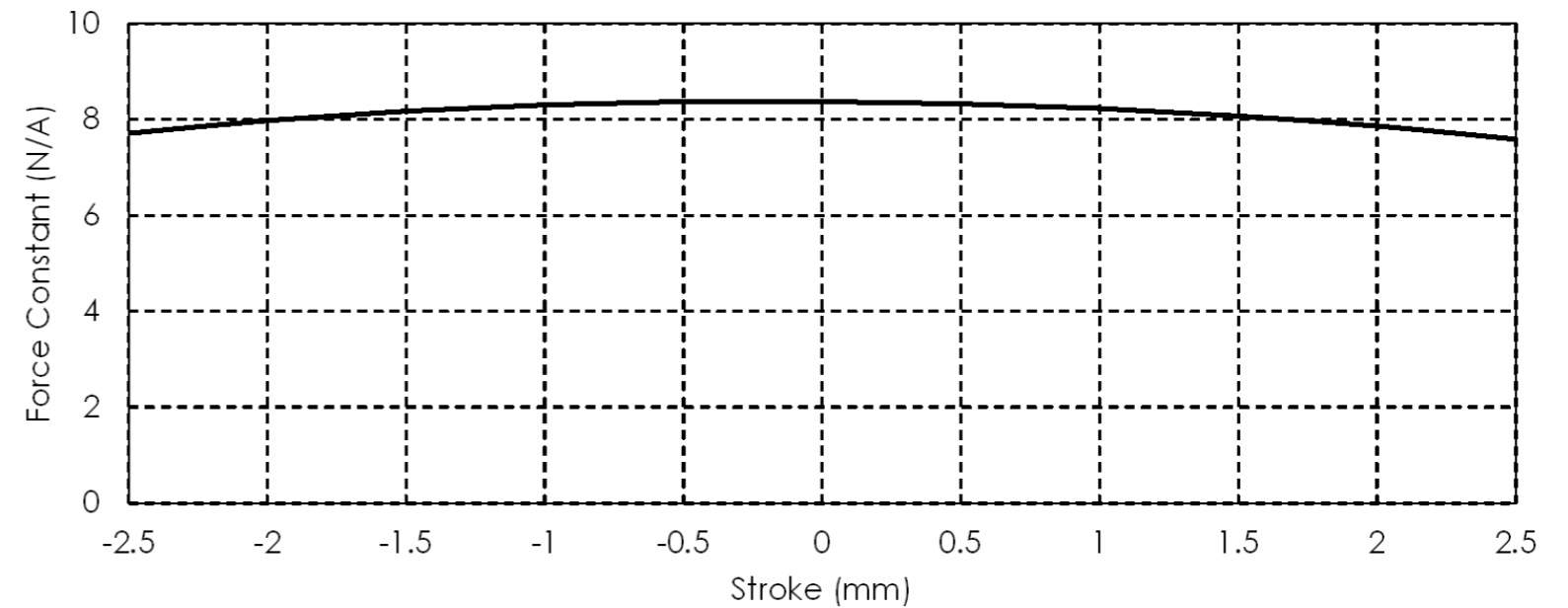
[3] Resistance is measured by DC current with 0.5 m lead wire.

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

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

# AVM40-5

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	YH	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	YH	2021/10/25
Drawn	YH	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:	AVM40-5_Customer Drawing
Title:	AVM40-5_Customer Drawing
Dwg No:	AVM40-5
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Rev:	0