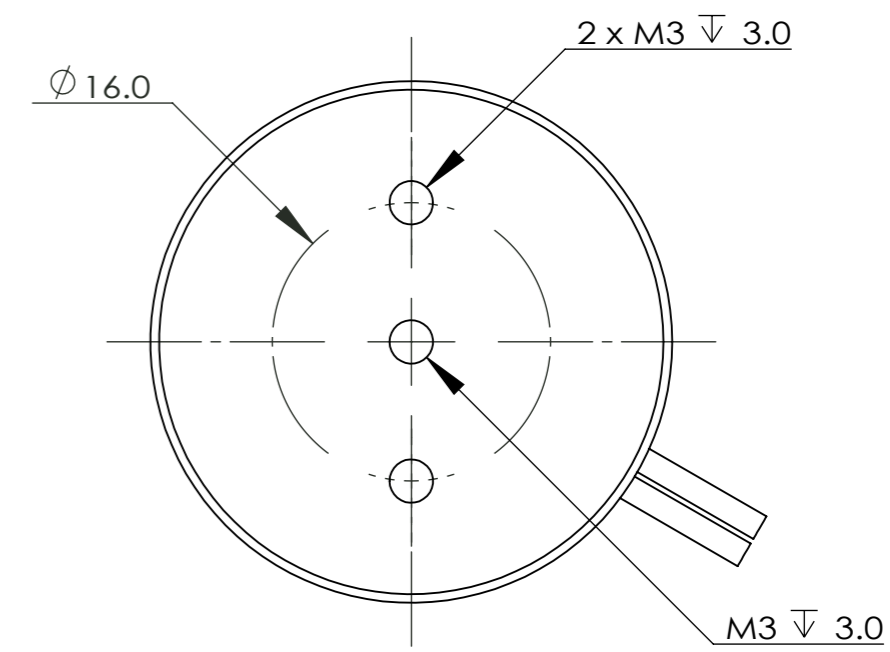
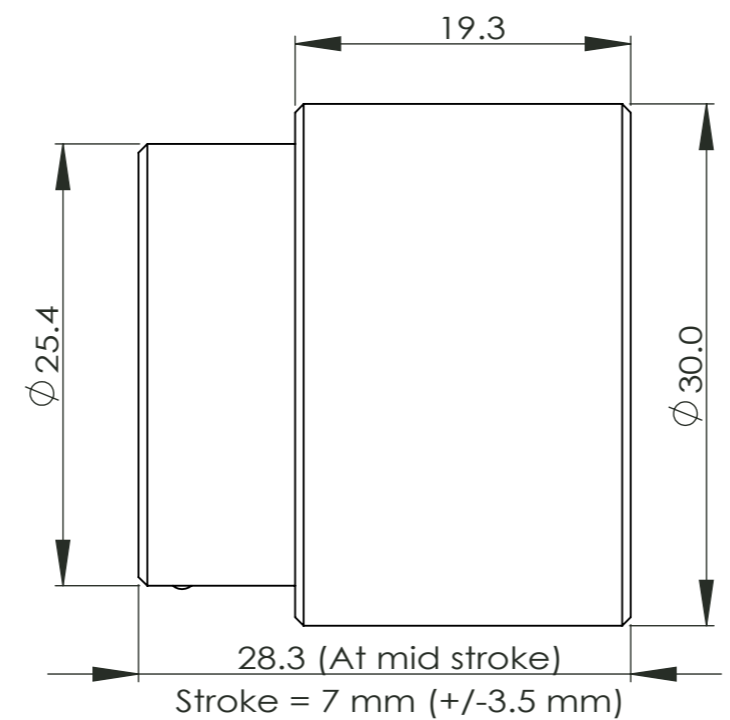
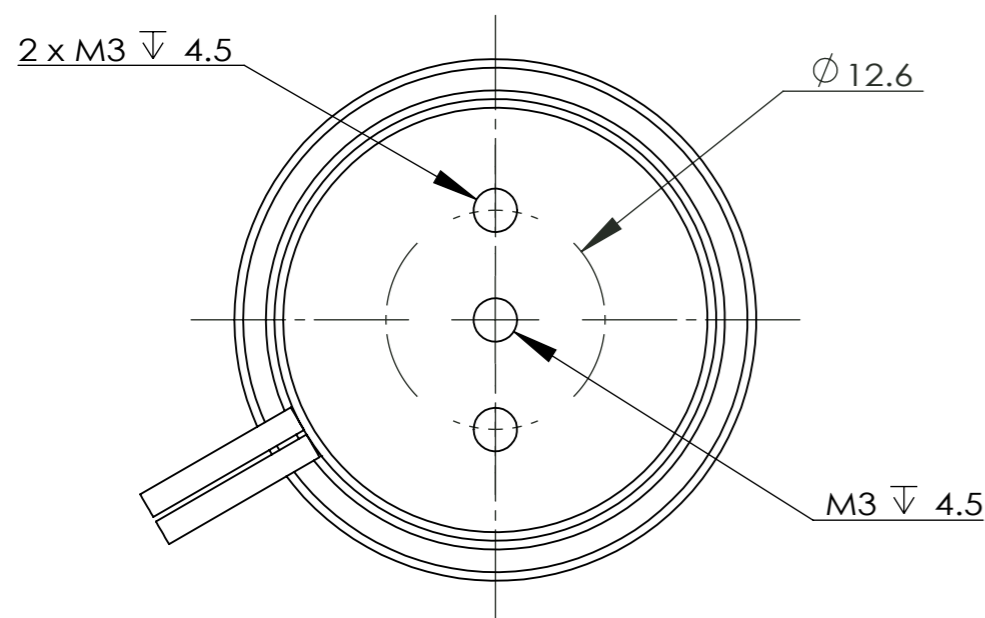
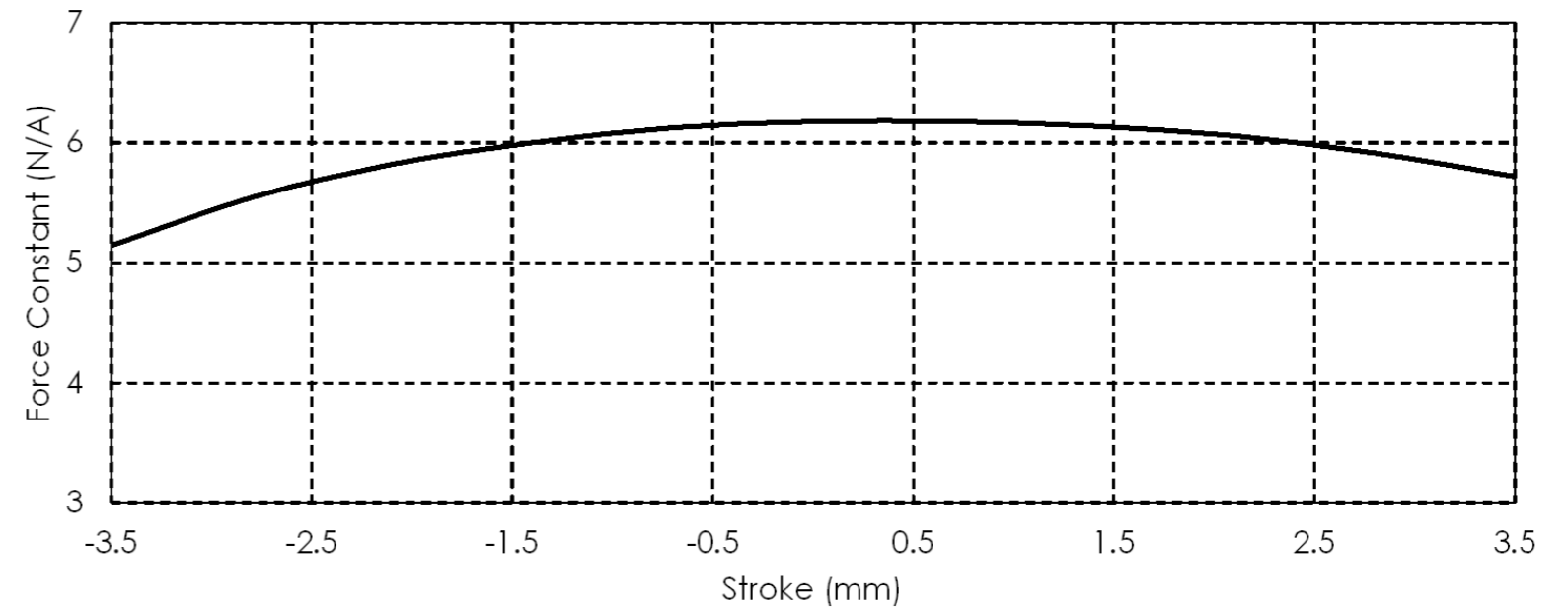


Performance Parameters	Symbol	Unit	AVM30-7
Stroke	S	mm	7.0
Continuous Force @100°C <sup>[1][2]</sup>	F <sub>c</sub>	N	5.62
Peak Force <sup>[2]</sup>	F <sub>pk</sub>	N	24.9
Force Constant ±10% <sup>[2]</sup>	K <sub>f</sub>	N/A	6.18
Back EMF Constant ±10% <sup>[2]</sup>	K <sub>e</sub>	V/(m/s)	6.18
Motor Constant @25°C <sup>[2]</sup>	K <sub>m</sub>	N/Sqrt(W)	2.53
Resistance @25°C ±10% <sup>[3]</sup>	R <sub>25</sub>	Ω	5.94
Inductance ±20% <sup>[4]</sup>	L	mH	1.41
Electrical Time Constant	τ <sub>e</sub>	ms	0.24
Continuous Current @100°C <sup>[1]</sup>	I <sub>c</sub>	A	0.9
Peak Current	I <sub>pk</sub>	A	4.0
Continuous Power Dissipation @100°C <sup>[1]</sup>	P <sub>c</sub>	W	6.3
Max. Coil Temperature	t <sub>max</sub>	°C	100
Thermal Dissipation Constant <sup>[1]</sup>	K <sub>th</sub>	W/°C	0.085
Max. Voltage	U <sub>max</sub>	Vdc	60
Coil Mass	m <sub>coil</sub>	g	15.3
Core Mass	m <sub>core</sub>	g	86.2
Running Clearance	L <sub>gap</sub>	mm	0.50

[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.

# AVM30-7

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



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		Drawn	WSM	2021/10/25	
		Checked	YH	2021/10/26	Model: AVM30-7_Customer Drawing
		Approved	YX	2021/10/26	Title: AVM30-7_Customer Drawing
		Material	NA		Dwg No: AVM30-7
		Surface Treatment	NA		Sheet: 1 OF1
		Heat Treatment	NA		Rev: 0
		Quantity	NA		