

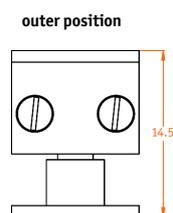
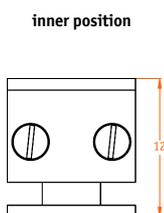
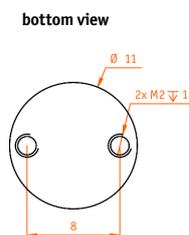
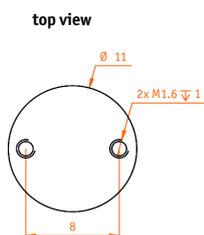
ANPz30

most compact, open loop, linear, vertical stepper positioner

Technical Specifications

Technology		Compatibility with Electronics	
travel mechanism	inertial piezo drive	ANC300 piezo positioning controller	ANM150, ANM300
Size and Dimensions		Working Conditions	
footprint; height	∅ 11; 12 mm	mounting orientation	axis vertical
maximum size	∅ 11; 14.5 mm	magnetic field range	0 .. 31 T
weight	3.8 g	temperature range (/RT, /HV, /UHV)	0 .. 100 °C
Coarse Positioning Mode		temperature range (/LT, /LT/HV, /LT/UHV)	10 mK .. 373 K
	@ 300 K	max. bake out temperature (/UHV, /LT/UHV)	150 °C
input voltage range	0 .. 60 V	minimum pressure (/RT, /LT)	1E-4 mbar
typical actuator capacitance	1.05 µF	minimum pressure (/HV, /LT/HV)	1E-8 mbar
travel range (step mode)	2.5 mm	minimum pressure (/UHV, /LT/UHV)	5E-11 mbar
typical minimum step size	50 nm	Accuracy of Movement	
maximum drive velocity	≈ 1 mm/s	repeatability of step sizes	typically 5 % over full range
Fine Positioning Mode		forward / backward step asymmetry	typically 5 - 10 % depending on load
	@ 300 K	Connectors and Feedthroughs	
input voltage range	0 .. 100 V	/RT, /LT Versions	all /HV, /UHV Versions
fine positioning range	0 .. 5 µm	connector type	2-pole pin plug, ∅ 0.5 mm, d = 2 mm, 30 cm cable with connector
fine positioning resolution	sub-nm	electrical feedthrough solution	VFT/LT
Materials (non-magnetic)			
positioner body	beryllium copper and titanium		
actuator	PZT ceramics		
connecting wires	insulated twisted pair, copper		
Load (@ ambient conditions)		mounting orientation: axis vertical	
maximum load	0.1 N (10 g)		
maximum dynamic force along the axis	0.2 N		
Mounting			
from the bottom	2 threads M2 x 1 mm		
load on top	2 threads M1.6 x 1 mm		
Article Numbers			
/RT Version	1000028		
/HV Version	1000046		
/UHV Version	1000013		
/LT Version	1000006		
/LT/HV Version	1000406		
/LT/UHV Version	1000019		

Technical Drawings



3D view

