

Piezocomposite – bare ring actuator series HPSt without casing

Series HPSt without casing and without preload, diameter 35 – 25 mm, 1000 V

Characteristics:

- max. load: 35000 N
- max. force generation: 20000 N (@ max. voltage)
- free opening
- heat abstraction

Applications:

- laser adjustment
- shock wave generation
- stabilization
- sensor testing
- test and acceleration sensors
- active vibration damping
- fuel injection
- active engine mounting
- as well as all kinds of positioning tasks which require high loads and/or extreme accelerations

Options:

- piezo material HP (high power, higher capacitance)
- low temperature modification
- UHV modification
- SG measurement system



Image: Ring type actuators with different dimensions

Standard configuration

		unit		
cable length	without connector	m	0.08	
connector		–	D-Sub 5W1	
ceramic		–	HS/HT	HP*
temperature range		°C/°F	to 200/to 390	to 90/to 190

* optional on request

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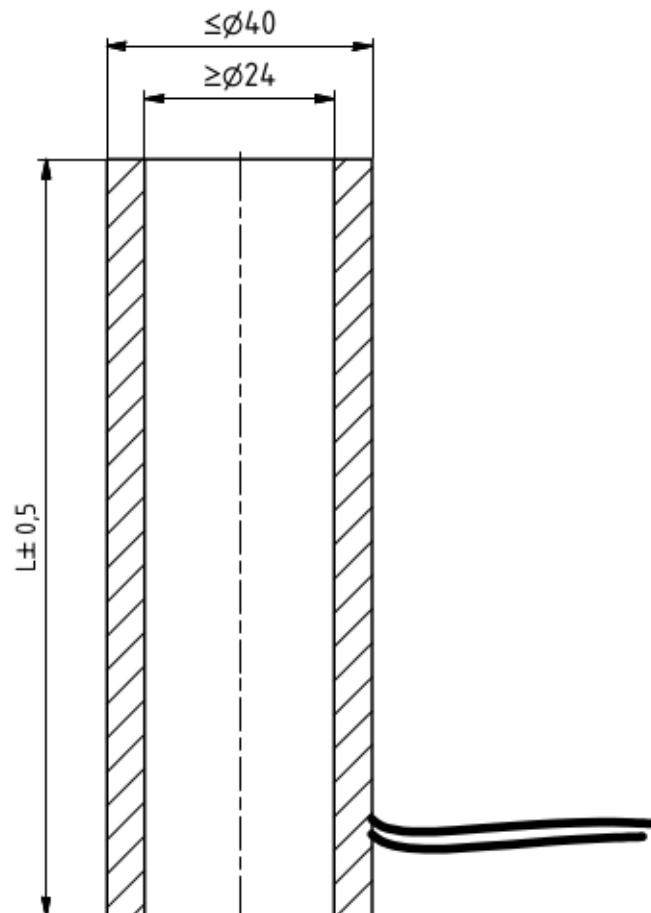
Series HPSt 1000 V, diameter 35 – 25 mm

type	max. stroke* [μm]	length [mm]	capacitance [nF]	stiffness** [N/μm]	resonant frequency [kHz]
HPST 1000/35–25/7	12/7	9	120	2000	50
HPST 1000/35–25/20	27/20	18	300	1000	35
HPST 1000/35–25/25	35/25	27	450	700	25
HPST 1000/35–25/40	55/40	36	600	500	20
HPST 1000/35–25/60	80/60	54	900	350	15
HPST 1000/35–25/80	105/80	72	1300	250	12
HPST 1000/35–25/100	130/100	90	1800	160	10
HPST 1000/35–25/>100	>100			on request	

* Motion at voltage -200 V to 1000/0 V to 1000 V

** Determined with short-circuited actuator respectively connected amplifier.

Drawing:



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