

## Piezocomposite – bare ring type actuators series HPSt

Series HPSt without casing and without preload, diameter 15 – 8 mm, 500 V and 1000 V

### Characteristics:

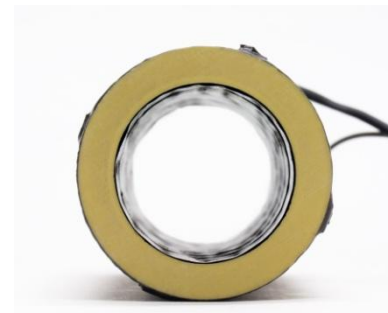
- max. load: 5000 N
- max. force generation: 4000 N (@ max. voltage)
- free opening
- heat abstraction

### Applications:

- laser adjustment
- shock wave generation
- 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		
<b>cable length</b>	without connector	m	0.08	
<b>ceramic</b>		–	HS/HT	HP*
<b>temperature range</b>		°C/°F	to 200/to 390	to 90/to 190

\* optional on request

## Piezocomposite – bare ring type actuators series HPSt

### Series HPSt 500 V, diameter 15 – 8 mm

type	max. stroke* [μm]	length [mm]	capacitance [nF]	stiffness** [N/μm]	resonant frequency [kHz]
HPSt 500/15–8/7	12/7	9	140	550	40
HPSt 500/15–8/20	27/20	18	360	280	25
HPSt 500/15–8/25	35/25	27	520	180	20
HPSt 500/15–8/40	55/40	36	720	130	15
HPSt 500/15–8/60	80/60	54	1100	90	12
HPSt 500/15–8/80	105/80	72	1500	60	20
HPSt 500/15–8/>80	>80	on request			

\* Motion at voltage -100 V to 500 V/0 V to 500 V

\*\* Determine with short circuited actuator respectively connected amplifier.

### Series HPSt 1000 V, diameter 15 – 8 mm

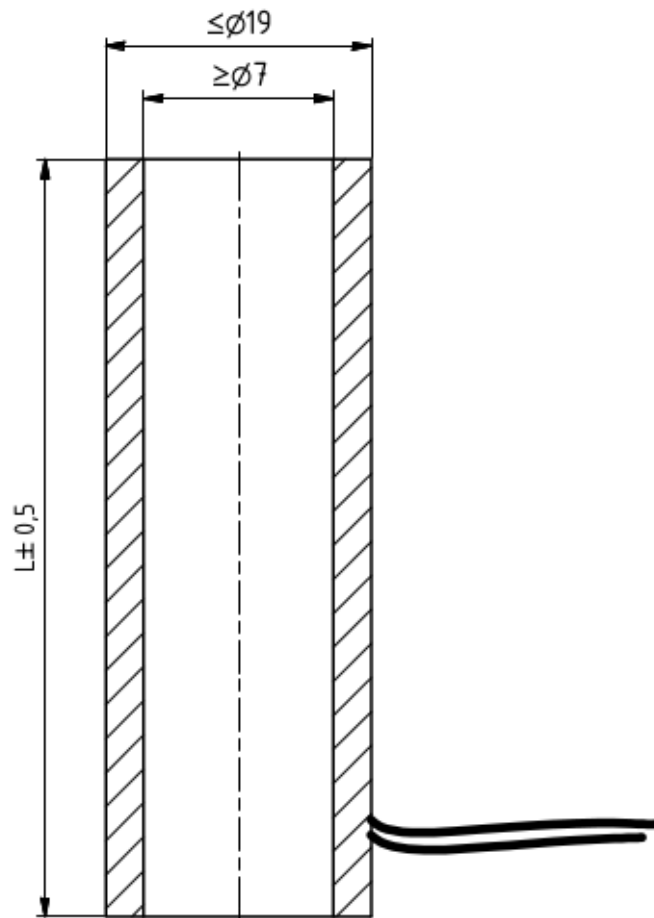
type	max. stroke* [μm]	length [mm]	capacitance [nF]	stiffness** [N/μm]	resonant frequency [kHz]
HPSt 1000/15-8/7	12/7	9	35	600	50
HPSt 1000/15-8/20	27/20	18	90	300	35
HPSt 1000/15-8/25	35/25	27	130	200	25
HPSt 1000/15-8/40	55/40	36	180	150	20
HPSt 1000/15-8/60	80/60	54	270	100	15
HPSt 1000/15-8/80	405/80	72	360	70	12
HPSt 1000/15-8/>80	>80	on Request			

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

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

*Piezocomposite – bare ring type actuators series HPSt*

Drawing:



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