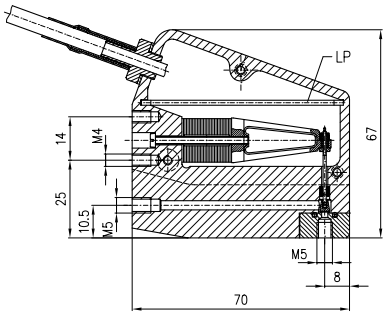
The torque block® enables highly dynamic analogue valve control in piezo actuator drives. One feature of the gas-dosing valve is that the valve stroke and thus the aperture cross section of the valve can be regulated from 0 - 100 %.

The highly dynamic nature of the drive also enables short opening pulses. The analogue or digital function of the valve is determined purely by the electronics.

Due to the high mechanical resonance frequency, the valve's characteristic curve follows the controller well above 1 kHz.



Dimensions (L x H x W)	(70 x 67 x 14) mm
Medium	non-aggressive gases
Dosing time	500 μs to ∞
Dosing sequence	≤150 doses/s
Maximum operating pressure	20 bar
Resonance frequency	~3.5 kHz
Ambient temperature range	up to 45 °C
Media temperature range	up to 60 °C
Sealing system	soft (Viton)
Electrical connection	2 m cable with 10 pole round plug connector or multicore cable ends (according to controller type)
Media connection	M5 input M5 output
Degree of protection	IP 54

Application

The gas-dosing valve is used to dose gaseous non-aggressive media. The dosage can ensue quasi static (analogue) or through short gas pulses (digital).

Order Number	Release	Description
asy/tgv/f	1.0	Gas-Dosing Valve
ase/tgv/c	1.0	Valve control

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