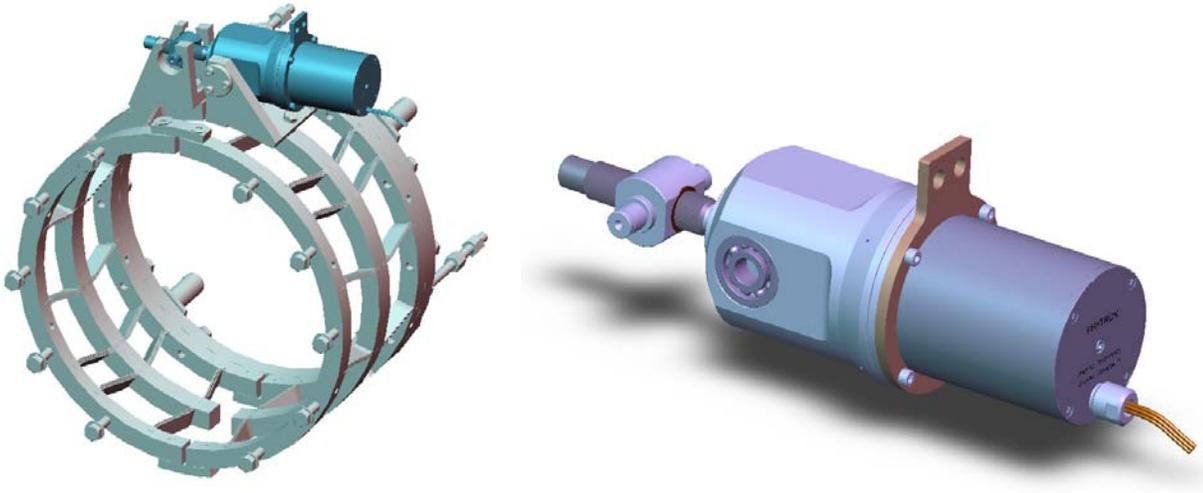
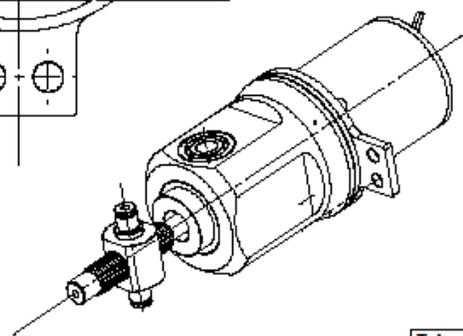
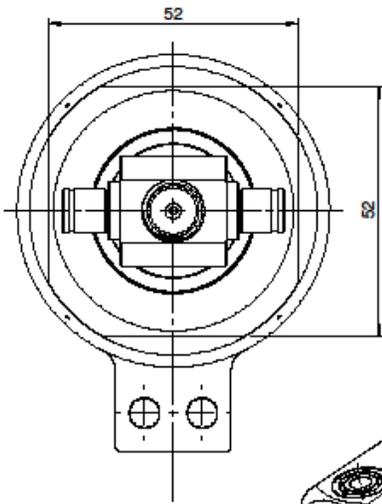
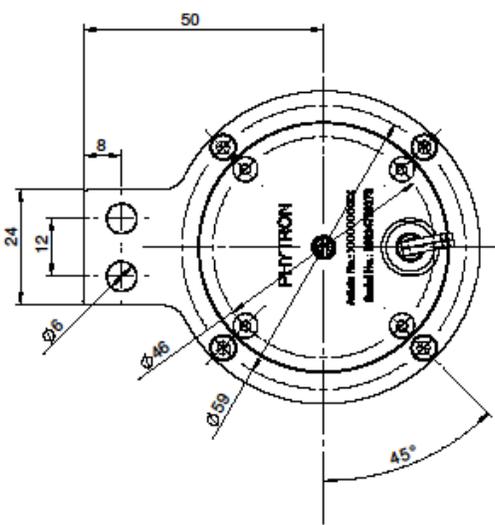
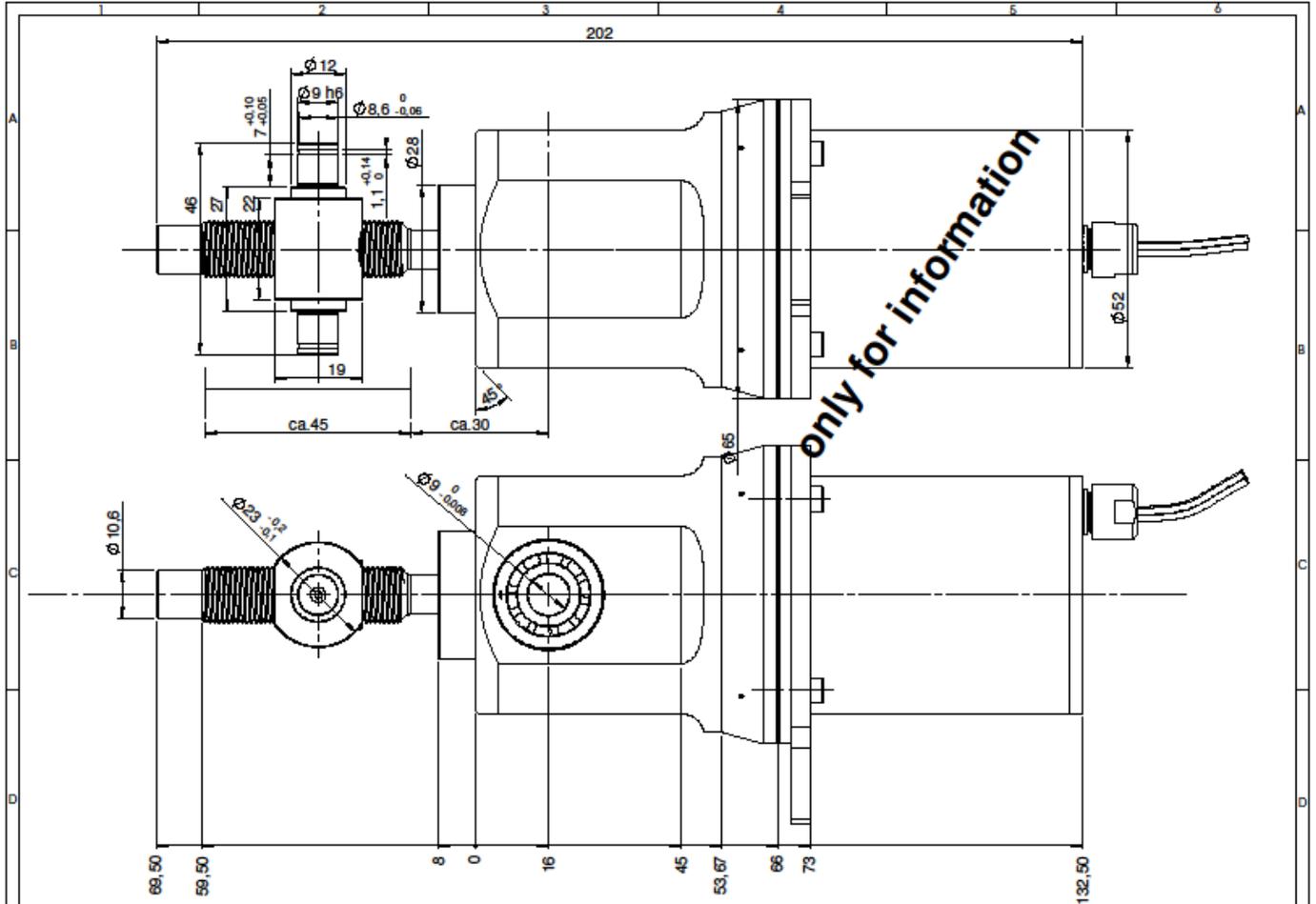


FERMI CAVITY TUNER ACTUATOR BY PHYTRON



- stepper motor with 200 steps/rev. (1.8°), with integrated gear (50:1) ==> 10,000 full steps/rev
 - integrated planetary gear, ratio 50:1, dry lubricated, backlash (35 arc-min)
 - spindle and nut system with M12x1mm
 - 2 different spindle material combinations for the prototypes. non magnetic,
 - efficiency will be verified during prototype lifetime test at FERMI
 - material for housing, flanges and internal parts stainless steel
 - Low flux leakage rotor
-
- Actuator capacity: 1,300N axial push force and 200N pull force
 - Rated for vacuum and -270°C to +40°C
 - Phytron will perform a functional test at -196°C in liquid nitrogen only
 - designed for 16 Million full steps during lifetime. (lifetime test will be performed at FERMI at system level)
 - designed for only a few steps per day, rest of time current off. 80 spindle rotations per year.
 - max. speed 400Hz full step. At motor shaft
 - max. winding temperature 130°C
 - Middle copper plate for cooling
 - laser marking with manufacturer, article and serial number at rear flange
 - assembling in clean production area (CPA)
 - BOL (begin of life) inspection before delivery
 - EOL (end of life) inspection with returned motors from FERMI after lifetime test
-
- 42V, nominal current 1.2A
 - 4 leads parallel connection, Kapton, length 500mm, AWG 22
 - 2-leads thermocouple in the motor windings, leads 500mm long
 - EMC cable shielding, 450mm long
 - special EMC cable gland, lead exit axial. see ICD

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only for information

VSS 52.200.1.2-UHVC-4Lp-X
Kaptonleads AWG 22, 500 mm long
PHYTRON color code with PTFE tubes 5 mm long

Toleranz	µm