APPLICATIONS

- Space
- Biotechnology
- Medical devices
- Defence
- Microscopy
- Laboratory automation
- Materials characterization
- Digital imaging
- Recreational equipment

NON CONTRACTUAL PICTURE

KEY FEATURES

- High resolution
- Blocking at rest. Position is preserved when power is removed
- High resistance to external forces (shock, vibrations). It is ideal for embedded applications
- High resolution within the nanometre range if required

RELATED PRODUCT

- Stepping Piezo Controller SPC45

SPECIFICATIONS

Preliminary data

PARAMETER	TYPICAL VALUE	UNIT
Forces		
Actuation force [1]	20 / 100	N
Holding force [2]	> 200	N
Stepping mode		
Travel range	5	mm
Typical min step size [3]	< 100	nm
Typical max speed [4]	200	µm/s
Mechanical properties		
Typical lifetime [5]	100	cycles
Dimensions	Diam 40x62	mm
Total mass	160.00	g

ANNOTATIONS

[1] Max actuation stall force, no more displacement, depending on the max ouptut peak current of the driver (20N @ 150 mA peak with SPC45 / 100N @ 1.2 A with High power amplifier)

[2] Unpowered

[3] Minimum Step size in coarse positioning mode for 50V output voltage step with SPC45

(4) Maximum speed in coarse positioning mode for 100V output voltage step with SPC45

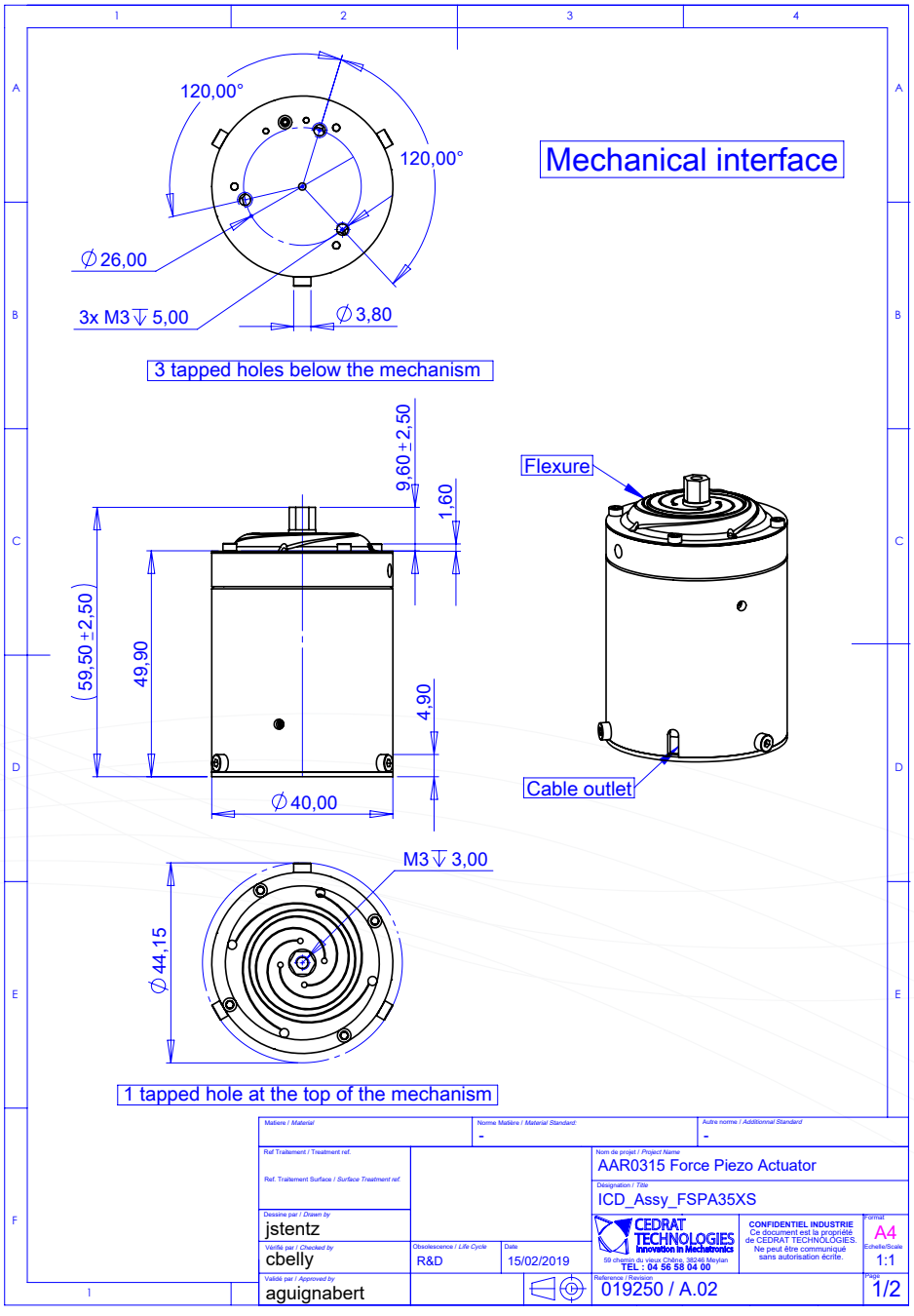
(5) 1 cycle is over 2 mm stroke at max speed , for higher number than 100 cycles please contact CTEC

MISCELLANEOUS

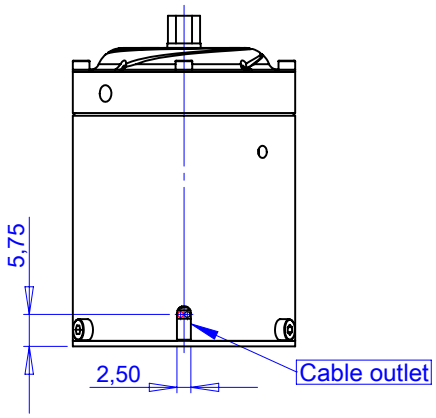
> **Operating temperature :**	0 °C ... +50 °C

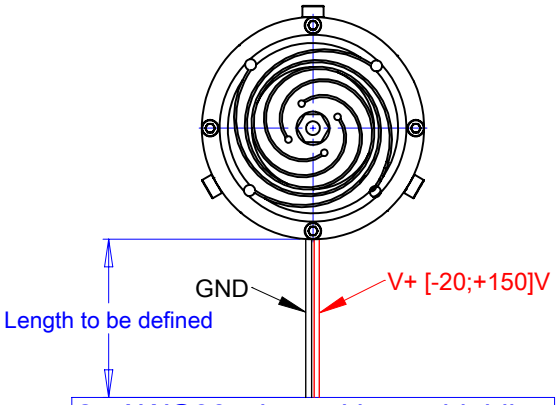
OPTIONS

> **Longer stroke :**	Please contact CTEC for more detail
> **Non magnetic :**	Please contact CTEC for more detail
> **Additional guiding :**	Please contact CTEC for more detail
> **Vacuum compatible version :**	Please contact CTEC for more detail



Electrical interface





2x AWG30 wires without shielding
2x ∅1 mm banana plugs

Matiere / *Material*	Norme Matière / *Material Standard*: -	Autre norme / *Additionnal Standard* -
Ref Traitement / *Treatment ref.*		Nom de projet / *Project Name*: AAR0315 Force Piezo Actuator
Ref. Traitement Surface / *Surface Treatment ref.*		Désignation / *Title*: ICD_Assy_FSPA35XS
Dessiné par / *Drawn by*: jstentz		CEDRAT TECHNOLOGIES Innovation in Mechatronics — 59 chemin du vieux Chêne, 38246 Meylan TEL : 04 56 58 04 00
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