

Introduction

Magnetically driven single shaft wobblestick manipulator with DN40CF mounting flange.

Linear Travel in standard lengths from 100mm to 200mm, retracted shaft length 60mm, continuously rotatable. Custom lengths available.

Torque can be doubled to 1Nm with the HT option to optimize torsional applications like using the manipulator as a screwdriver.

Specifications:

Materials

All UHV compatible

Vacuum Range

CF flanged atm to 1×10^{-11} mbar

Temperature Range*

CF flanged -196 to 150°C

Load - standard versions

Linear force 30N typical

Torque 0.5Nm typical

Load - High torque version

Linear force 75N typical

Torque 1.0Nm typical

Angular Deflection

Standard version $\pm 20^\circ$

Wide Angle -WA version $\pm 28^\circ$



Description	Part Code
Single shaft wobblestick 100mm linear $\pm 20^\circ$ DN40CF	M-WM40-100
Single shaft wobblestick 150mm linear $\pm 20^\circ$ DN40CF	M-WM40-150
Single shaft wobblestick 200mm linear $\pm 20^\circ$ DN40CF	M-WM40-200
Single shaft wobblestick Xmm linear Ymm shaft $\pm 20^\circ$ DN40CF	M-WM40-X-Y
Wide angle single shaft wobblestick Xmm linear Ymm shaft $\pm 28^\circ$ DN40CF	M-WM40-WA-X-Y
Single shaft high torque wobblestick 100mm linear $\pm 20^\circ$ DN40CF	M-WM40HT-100
Single shaft high torque wobblestick 150mm linear $\pm 20^\circ$ DN40CF	M-WM40HT-150
Single shaft high torque wobblestick Xmm linear Ymm shaft $\pm 20^\circ$ DN40CF	M-WM40HT-X-Y

linear travel XXXX

11

39

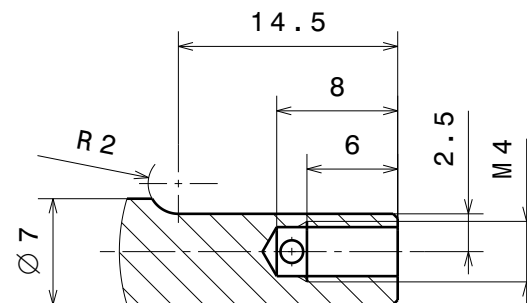
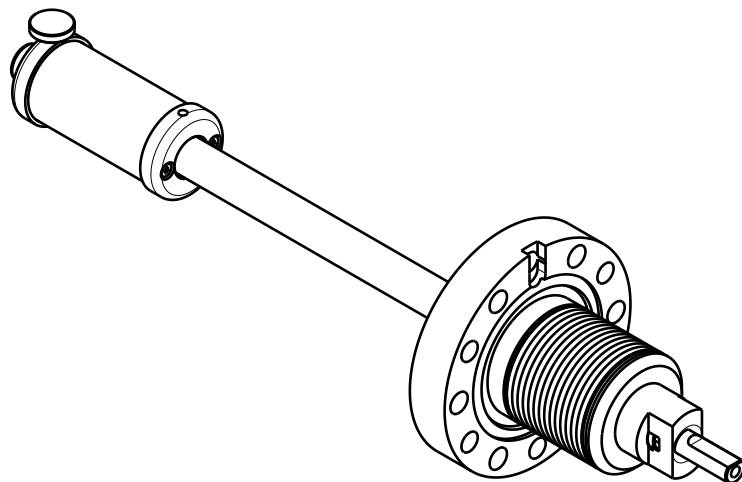
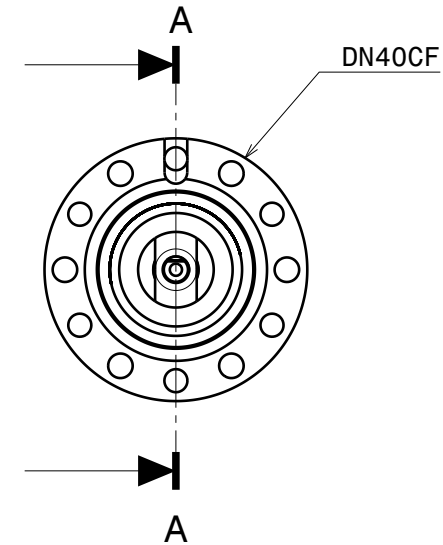
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XXXX + 16.6

XXXX + 91.6

$\pm 28^\circ$

$\varnothing 35$



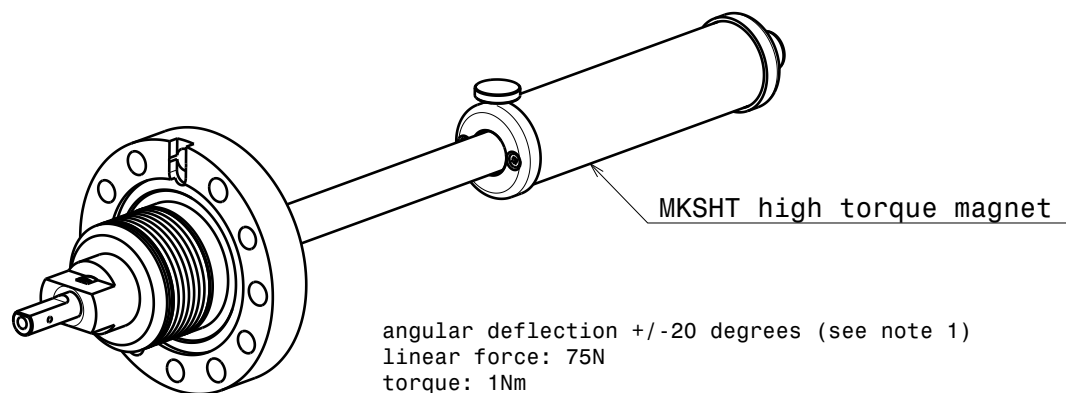
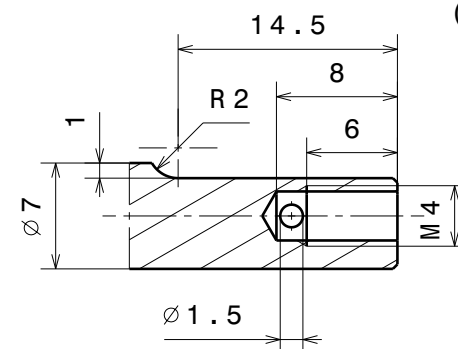
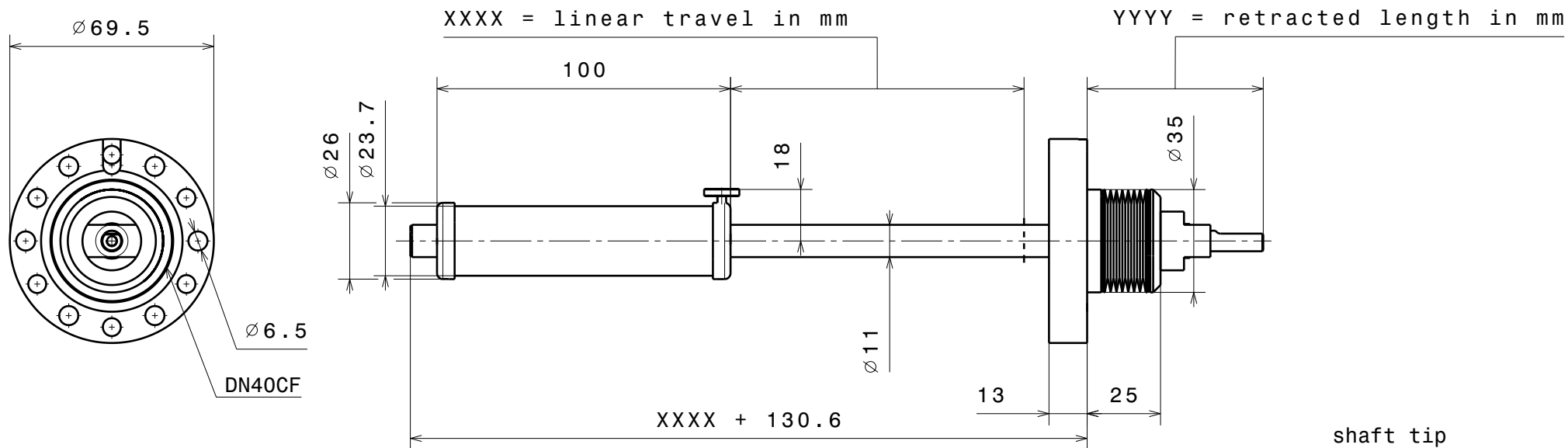
A-A (2:1)






Allgemeintoleranzen ISO 2768-K

Material: fully UHV compatible materials	Nennmass bis Toleranz ± Massstab 1:2	über	1	6	30	100	300	1000
WWWA40-XXXX-YYYY			6	30	100	300	1000	2000
Wobblestick Manipulator Wide Angle			0.05	0.1	0.3	0.5	0.8	1.2
		gezeichnet	Denys Sutter					
		Datum	03.02.2010					
		geändert	01.06.20150A					
Ferrovac <i>GmbH</i> <i>CH-8050 Zürich</i>		WWWA40-XXXX-YYYY						



angular deflection +/-20 degrees (see note 1)
 linear force: 75N
 torque: 1Nm
 bakeout temperature: 150deg C max.
 pressure range 1E-11mbar to 1000mbar
 fully UHV compatible materials

note 1: if mounted to wobblestick flange

Ra 1.6 (✓)

general tolerances ISO 2768-K

+0.2
+0.1

-0.1
-0.2

Material: all UHV compatible		nominal over		1	6	30	100	300	1000
Wobblestick manipulator with high torque magnet		dimension up to		6	30	100	300	1000	2000
		tolerance ±		0.05	0.1	0.3	0.5	0.8	1.2
WM		Scale	Drawn		Denys Sutter				
Ferrovac GmbH CH-8050 Zurich		1:2 (2:1)	Date		07.04.2011				
			changed		28.04.15 vG				
		Rev.	C	WM40HT-XXXX- YYYY					

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