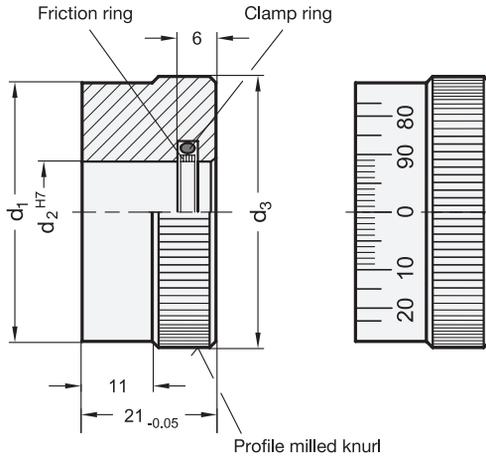
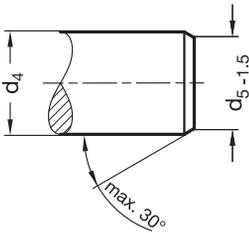


Connection measurements for version with friction ring



2 Bore code:

- B Without friction ring
- R With friction ring

4 Coding

- MCR** Matte chrome plated
- MCRS** Matte chrome plated, scale 0...90, 100 graduations, scale scheme $d_1/100$ A RA 0-10 20...90/10

1 $d_1 \pm 0,02$	3 d_2 H7 Bore		d_3	d_4 $^{-0,02}_{-0,05}$		d_5
30	12	14	31,7	12	14	10,5
40	14	16	41,3	14	16	12,5
50	16	18	51,8	16	18	14,5
60	18	20	61,4	18	20	16,5

Specification

Scale ring

- Steel
- Profile-milled knurl
- Scale lug d_1 , fine turned
- plain, without scale
- Matte chrome plated, without scale **MCR**
- Matte chrome plated with standard scale **MCRS**
- Scale laser-engraved, black discharged

Clamp ring

Rubber

Friction ring

Polyamide

RoHS

On request

- Special graduations (see „How to Order Graduations“)

The non-wearing friction ring ensures perfect engagement of the scale ring when re-aligning the spindle. In addition it allows the setting of the scale ring on a static shaft.

Besides the standard scale (Type MCRS) the scale rings can be supplied with any type of graduation. It is suggested to use the matt chrome plated version (MCR) so that a nice discrepancy in color is given.

Regarding design, numbering run, numbering position and numbering sequence of the scale please see the layout for scale rings on the order sheet „How to order Graduations“

see also...

	Page
GN 736.1 Control Handwheels with Standard Scale	QVX
GN 264 Scale Rings	QVX

Technical Information

How to order - Graduations	QVX
ISO Fundamental Tolerances	QVX

How to order

GN 164-50-R16-MCRS

- 1** d_1
- 2** Bore code
- 3** d_2
- 4** Coding

