

► **Double rack rotary actuators with turn table**



**Ordering code**

**6400.** . . .

- A** = Standard
- R** = Cushioning (shock absorber)
- 10** (piston  $\varnothing 15$ )
- 30** (piston  $\varnothing 20$ )
- 50** (piston  $\varnothing 25$ )
- 100** (piston  $\varnothing 32$ )
- 200** (piston  $\varnothing 40$ )

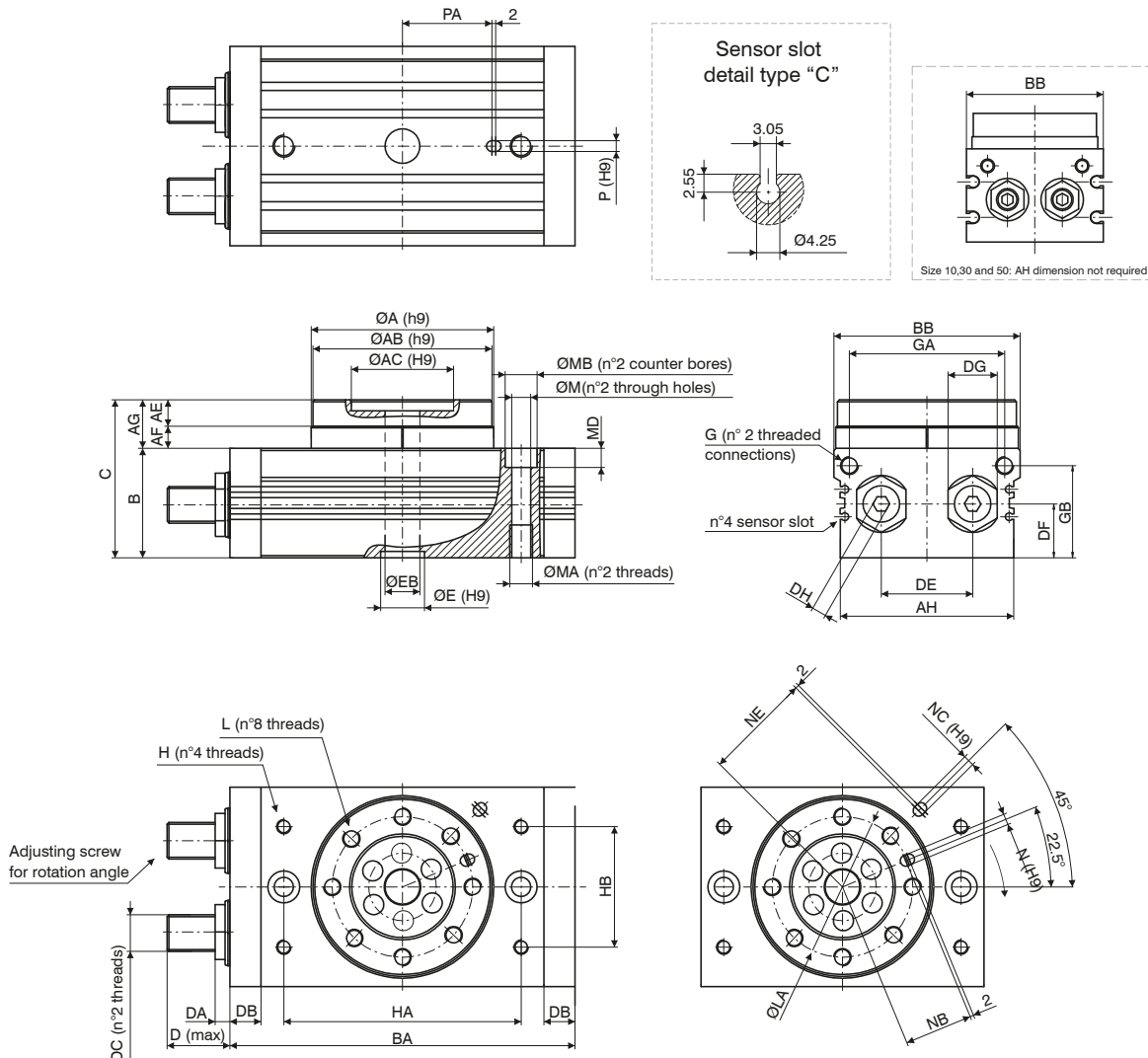
**Construction characteristics**

|             |  |
|-------------|--|
| Body        | anodised aluminium                                     |
| End cap     | anodised aluminium                                     |
| Piston seal | NBR rubber   |
| Pinion      | steel  |
| Rack        | steel  |
| Turn table  | anodised aluminium                                     |
| Cushioning  | elastic bumper (hydraulic damper available on request) |

**Operational characteristics**

|                      |   |
|----------------------|---|
| Fluid                | Filtered air.<br>No lubrication needed, if applied it shall be continuous.) |
| Max. pressure        | 10 bar (for type 100 and 200, 6 bar)  |
| Working temperature  | -5°C - +70°C  |
| Rotation angle range | 0 - 190°  |
| Max. rotation        | 190°  |
| Rotation speed       | s/90° (see rotation time table)   |

Overall dimensions

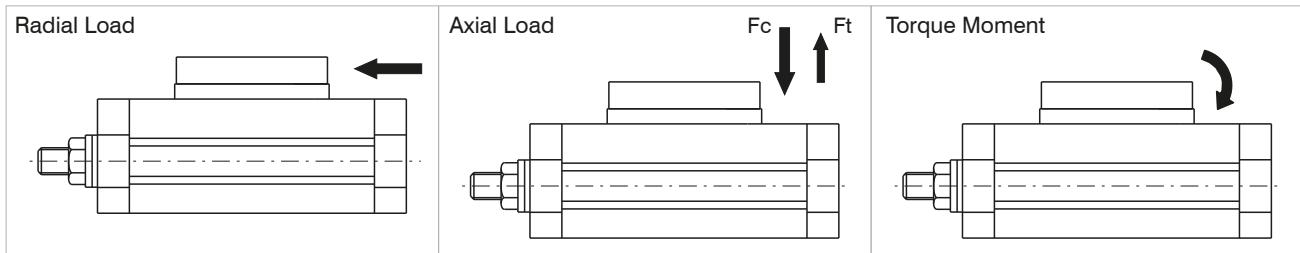


| Size                 | 10     | 30    | 50      | 100     | 200     |
|----------------------|--------|-------|---------|---------|---------|
| Ø piston             | Ø15    | Ø21   | Ø25     | Ø32     | Ø40     |
| ØA <sup>h9</sup>     | 46     | 67    | 77      | 100     | 118     |
| ØAB <sup>h9</sup>    | 45     | 65    | 75      | 98      | 116     |
| ØAC <sup>H9</sup>    | 20     | 32    | 35      | 56      | 64      |
| Useful depth         | 4      | 4,5   | 5       | 6       | 9       |
| AE                   | 8      | 10    | 12      | 14,5    | 16,5    |
| AF                   | 5      | 7     | 8       | 12,5    | 15,5    |
| AG                   | 13     | 17    | 20      | 27      | 32      |
| AH                   | /      | /     | /       | 95      | 114     |
| B <sup>+0,5/0</sup>  | 34     | 40    | 46      | 59      | 74      |
| BA                   | 92     | 127   | 152     | 189     | 240     |
| BB <sup>+0,5/0</sup> | 50     | 70    | 80      | 102     | 120     |
| C <sup>+0,5/0</sup>  | 47     | 57    | 66      | 86      | 106     |
| D                    | 17,7   | 25    | 31,4    | 34,3    | 40,2    |
| DA                   | 8,6    | 10,6  | 14      | 8       | 20      |
| DB                   | 9,5    | 12    | 15,5    | 17      | 24      |
| DC                   | M8x1   | M10x1 | M14x1,5 | M20x1,5 | M27x1,5 |
| DE                   | 20     | 29    | 38      | 50      | 60      |
| DF                   | 15,5   | 18,5  | 22      | 29,5    | 36,5    |
| DG                   | 12     | 14    | 19      | 27      | 36      |
| DH                   | 4      | 5     | 6       | 8       | 10      |
| ØE <sup>H9</sup>     | 15     | 22    | 26      | 24      | 32      |
| Useful depth         | 3      | 3     | 3       | 3,5     | 5,5     |
| ØEB                  | 5      | 9     | 10      | 19      | 24      |
| G                    | M5x0,8 | G1/8  | G1/8    | G1/8    | G1/8    |

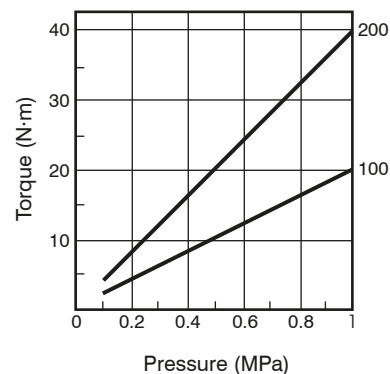
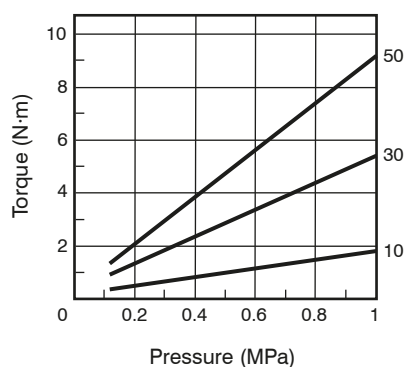
| Size             | 10      | 30      | 50       | 100      | 200      |
|------------------|---------|---------|----------|----------|----------|
| Ø piston         | Ø15     | Ø21     | Ø25      | Ø32      | Ø40      |
| GA               | 34,5    | 50      | 63       | 85       | 103      |
| GB               | 27,8    | 32      | 37,5     | 50,5     | 65,5     |
| H                | M5x0,8  | M6x1    | M8x1,25  | M8x1,25  | M12x1,75 |
| Useful depth     | 8       | 8       | 8        | 10       | 13       |
| HA               | 60      | 84      | 100      | 130      | 150      |
| HB               | 27      | 37      | 50       | 66       | 80       |
| L                | M5x0,8  | M6x1    | M8x1,25  | M10x1,5  | M12x1,75 |
| Useful depth     | 8       | 10      | 12       | 14,5     | 16,5     |
| LA               | 32      | 48      | 55       | 77       | 90       |
| M                | 6,8     | 8,6     | 10,5     | 10,4     | 14,2     |
| MA               | M8x1,25 | M10x1,5 | M12x1,75 | M12x1,75 | M16x2    |
| Useful depth     | 12      | 15      | 18       | 18       | 25       |
| MB               | 11      | 14      | 18       | 17,5     | 20       |
| MD               | 6,5     | 8,5     | 10,5     | 10,5     | 12,5     |
| N <sup>H9</sup>  | 3       | 4       | 5        | 6        | 8        |
| Useful depth     | 3,5     | 4,5     | 5,5      | 6,5      | 8,5      |
| NB               | 15      | 23      | 26,5     | 37,5     | 44       |
| NC <sup>H9</sup> | /       | /       | /        | 6        | 8        |
| Useful depth     | /       | /       | /        | 4,5      | 4,5      |
| NE               | /       | /       | /        | 59       | 69       |
| P <sup>H9</sup>  | /       | /       | /        | 6        | 8        |
| Useful depth     | /       | /       | /        | 4,5      | 6,5      |
| PA               | /       | /       | /        | 49       | 54       |
| Weight (g)       | 530     | 1230    | 2080     | 4100     | 7650     |

**Permissible Loads**

|                    |    | Size |     |     |     |      |
|--------------------|----|------|-----|-----|-----|------|
|                    |    | 10   | 30  | 50  | 100 | 200  |
| Radial Load (N)    |    | 80   | 200 | 320 | 400 | 550  |
| Axial Load (N)     | Fc | 80   | 370 | 450 | 710 | 1000 |
|                    | Ft | 75   | 200 | 300 | 500 | 750  |
| Torque Moment (Nm) |    | 2,5  | 5,5 | 9,5 | 18  | 25   |



**Torque Diagrams**



**Rotation time (sec./90°)**

| Dimension    | With adjusting screw | With hidraulic decelerator |
|--------------|----------------------|----------------------------|
| 10 - 30 - 50 | 0.2 - 1              | 0.2 - 0,7                  |
| 100          | 0.2 - 2              | 0.2 - 1                    |
| 200          | 0.2 - 2.5            | 0.2 - 1                    |

**Kinetic energy**

| Dimension | With adjusting screw | With hidraulic decelerator  |
|-----------|----------------------|---|
| 10        | 0.006                | Please apply to our tech-dpt for info (as general rule expressed valves can be multiplied by 3) |
| 30        | 0.045                |   |
| 50        | 0.08                 |   |
| 100       | 0.30                 |   |
| 200       | 0.52                 |   |