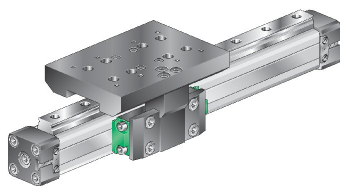


## Rodless magnetic cylinder with ball-bearing slide guide and Accessories Series RLFH



RLFH

-- -

16ø16

25ø25

32ø32

40ø40

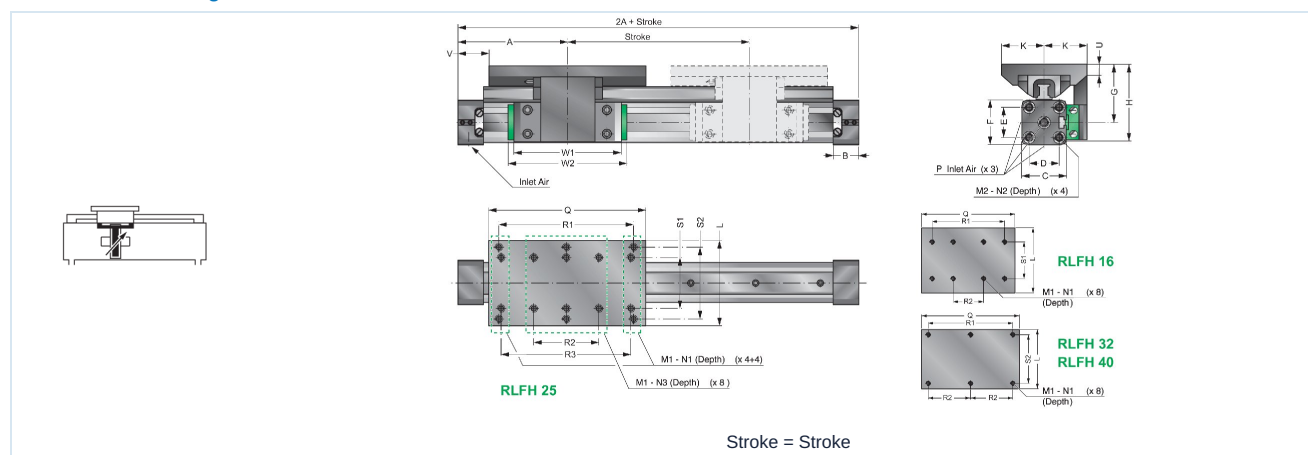
Stroke [mm]

1a slide guide  
2two slide guidesOStandard  
VViton seals

|                         |                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Design type             | Rodless magnetic cylinder with ball-bearing slide guide                                                                                    |
| Heads                   | Aluminium hard anodized                                                                                                                    |
| Slide                   | Aluminium hard anodized                                                                                                                    |
| Cylinder tube           | Aluminium profile hard anodized                                                                                                            |
| Sealing tapes           | Stainless steel                                                                                                                            |
| Seals                   | NBR                                                                                                                                        |
| End-position cushioning | pneumatic, adjustable                                                                                                                      |
| Ambient temperature     | -15...+80°C                                                                                                                                |
| Medium temperature      | 0...+40°C                                                                                                                                  |
| Lubrication             | not necessary                                                                                                                              |
| Medium                  | filtered compressed air                                                                                                                    |
| Operating pressure      | 0,5...8 bar                                                                                                                                |
| Note                    | CAD files are available in the STASTO Store at <a href="http://www.stasto.eu">www.stasto.eu</a><br>Solenoid switch see separate data sheet |



## Dimensional drawing



| Ø  | A   | B  | C  | D  | E  | F  | G    | H     | K    | L   | M1 | M2 | N1 | N2 | N3 | P    | Q   | R1  | R2 | R3  | S1 | S2 | U  | V    | W1  | W2  | Cushioning length | Type        |
|----|-----|----|----|----|----|----|------|-------|------|-----|----|----|----|----|----|------|-----|-----|----|-----|----|----|----|------|-----|-----|-------------------|-------------|
| 16 | 65  | 15 | 27 | 18 | 18 | 27 | 35   | 48,5  | 31,5 | 63  | M4 | M3 | 10 | 7  | -  | M5   | 90  | 70  | 30 | -   | 36 | -  | 10 | 28,5 | 60  | 69  | 15                | RLFH 16-... |
| 25 | 100 | 23 | 40 | 27 | 27 | 40 | 53   | 73    | 40   | 80  | M6 | M5 | 12 | 11 | 10 | G1/8 | 145 | 125 | 60 | 120 | 50 | 64 | 11 | 27,5 | 102 | 112 | 21                | RLFH 25-... |
| 32 | 125 | 27 | 52 | 36 | 40 | 52 | 64   | 90    | 57,5 | 115 | M8 | M6 | 13 | 15 | -  | G1/4 | 190 | 164 | 82 | -   | -  | 96 | 10 | 30   | 135 | 152 | 26                | RLFH 32-... |
| 40 | 150 | 30 | 69 | 54 | 54 | 72 | 69,2 | 105,1 | 57,5 | 115 | M8 | M6 | 18 | 15 | -  | G1/4 | 190 | 164 | 82 | -   | -  | 96 | 10 | 55   | 135 | 152 | 32                | RLFH 40-... |

## Forces and torques

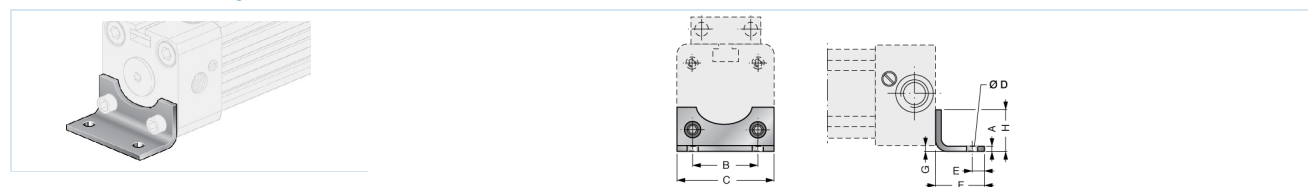
The resulting forces and torques can be calculated using the following formula:

$$\frac{M_a}{M_{a \max}} + \frac{M_r}{M_{r \max}} + \frac{M_v}{M_{v \max}} + \frac{L}{L_{\max}} \leq 1$$

| RLFH .. / .... 1 . a slide guide    |                                 |                    |               |                |                 |
|-------------------------------------|---------------------------------|--------------------|---------------|----------------|-----------------|
| Ø                                   | Longitudinal force [N] at 6 bar | Maximum load L [N] | Ma axial [Nm] | Mr radial [Nm] | Mv central [Nm] |
| 16                                  | 110                             | 500                | 4             | 6              | 11              |
| 25                                  | 250                             | 1500               | 40            | 14             | 40              |
| 32                                  | 420                             | 2950               | 61            | 30             | 62              |
| 40                                  | 640                             | 3960               | 115           | 52             | 70              |
| RLFH .. / .... 2 . two slide guides |                                 |                    |               |                |                 |
| Ø                                   | Longitudinal force [N] at 6 bar | Maximum load L [N] | Ma axial [Nm] | Mr radial [Nm] | Mv central [Nm] |
| 16                                  | 110                             | 500                | 8             | 10             | 18              |
| 25                                  | 250                             | 1500               | 85            | 20             | 80              |
| 32                                  | 420                             | 2950               | 85            | 45             | 90              |
| 40                                  | 640                             | 3960               | 130           | 65             | 100             |

## Accessories

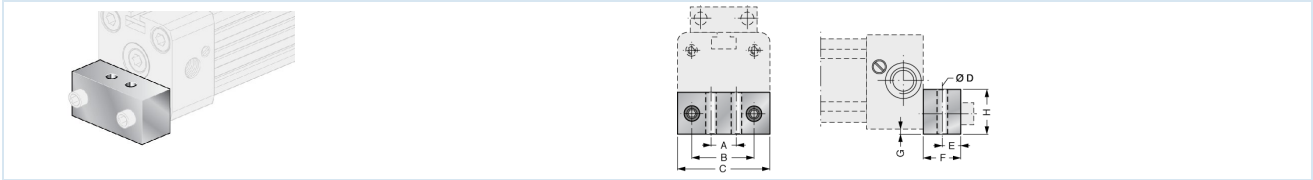
### RLP - .. Foot mounting



| Ø  | A   | B  | C  | ØD  | E | F  | G   | H    | Type   |
|----|-----|----|----|-----|---|----|-----|------|--------|
| 16 | 1,6 | 18 | 26 | 3,6 | 4 | 14 | 1,5 | 12,5 | RLP-16 |
| 25 | 2,5 | 27 | 40 | 5,5 | 6 | 22 | 2   | 18   | RLP-25 |

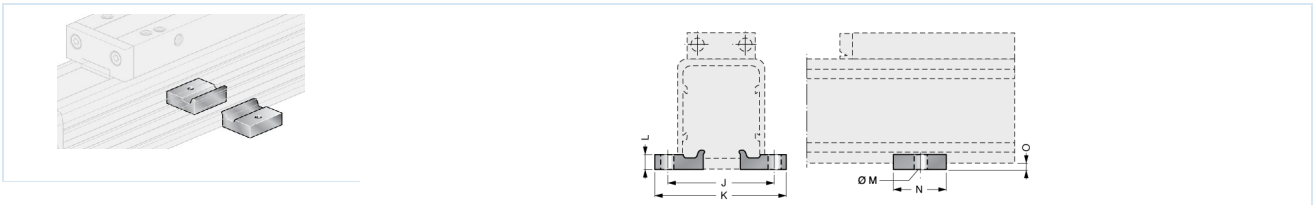


RLQ - .. Foot mounting



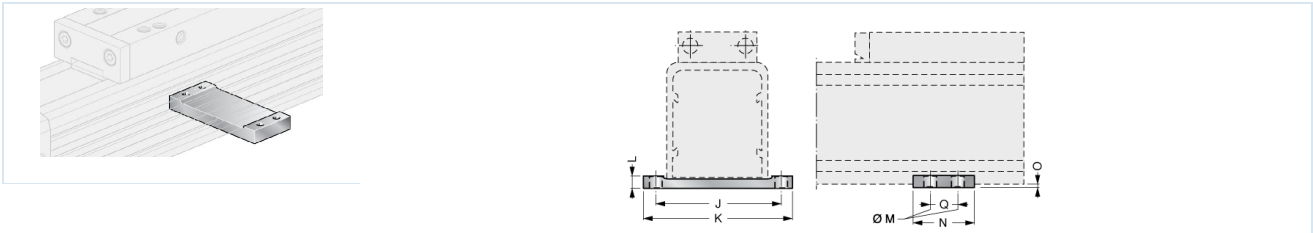
| Ø  | A  | B  | C  | ØD  | E    | F  | G | H  | Type   |
|----|----|----|----|-----|------|----|---|----|--------|
| 32 | 20 | 36 | 51 | 6,6 | 6    | 24 | 4 | 20 | RLQ-32 |
| 40 | 30 | 54 | 71 | 9   | 11,5 | 24 | 2 | 20 | RLQ-40 |

RLMI - .. Bearing blocks



| Ø  | J  | K  | L | ØM  | N  | O | Type    |
|----|----|----|---|-----|----|---|---------|
| 16 | 36 | 40 | 6 | 3,5 | 12 | 3 | RLMI-16 |
| 25 | 48 | 60 | 6 | 5,5 | 20 | 4 | RLMI-25 |

RLMU - .. Bearing bracket



| Ø  | J  | K  | L  | ØM  | N  | O   | Q  | Type    |
|----|----|----|----|-----|----|-----|----|---------|
| 32 | 61 | 73 | 10 | 6,5 | 55 | 6   | 40 | RLMU-32 |
| 40 | 70 | 85 | 10 | 6,5 | 60 | 7,2 | 45 | RLMU-40 |

Illustrations non-binding  
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