

## rodless magnetic cylinder with accessoires series RLF



### RLF

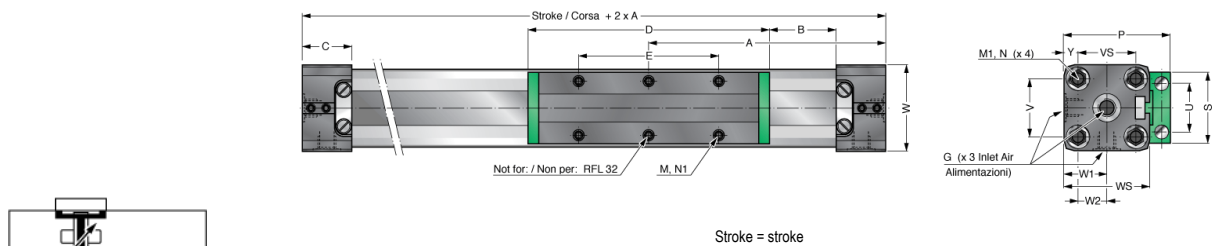
|    |     |                            |
|----|-----|----------------------------|
| 16 | ø16 | stroke [mm]                |
| 25 | ø25 | ø25 to ø63: 100 to 5700 mm |
| 32 | ø32 | ø16: 100 to 3300 mm        |
| 40 | ø40 |                            |
| 50 | ø50 |                            |
| 63 | ø63 |                            |

|    |                                     |
|----|-------------------------------------|
| O  | standard                            |
| V  | viton seals                         |
| X  | stainless steel screws              |
| VX | viton seals, stainless steel screws |

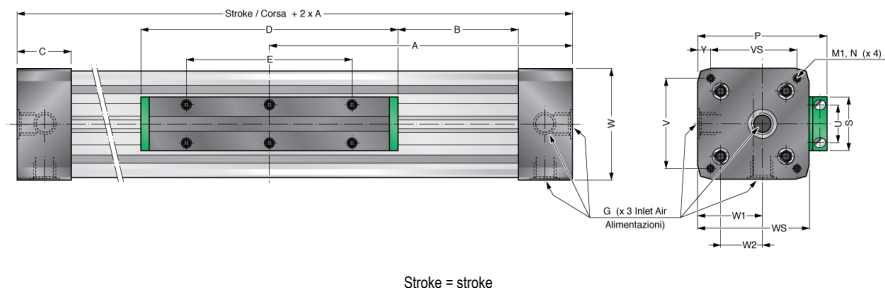
|                     |                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| design              | rodless magnetic cylinder                                                                                                                    |
| heads               | hard-anodized aluminum                                                                                                                       |
| carriage            | hard-anodized aluminum                                                                                                                       |
| cylinder tube       | aluminum profile hard anodized                                                                                                               |
| seals volumes       | stainless steel                                                                                                                              |
| cushions            | pneumatic, adjustable                                                                                                                        |
| ambient temperature | -15°C...+80°C                                                                                                                                |
| medium temperature  | 0°C...+40°C                                                                                                                                  |
| lubrication         | not necessary                                                                                                                                |
| medium              | filtered compressed air                                                                                                                      |
| operating pressure  | 0,5...8 bar                                                                                                                                  |
| information         | CAD-files can be loaded on the STASTO Store under <a href="http://www.stasto.eu">www.stasto.eu</a><br>magnetic switch see separate datasheet |

## dimension

RLF 16 - 32:

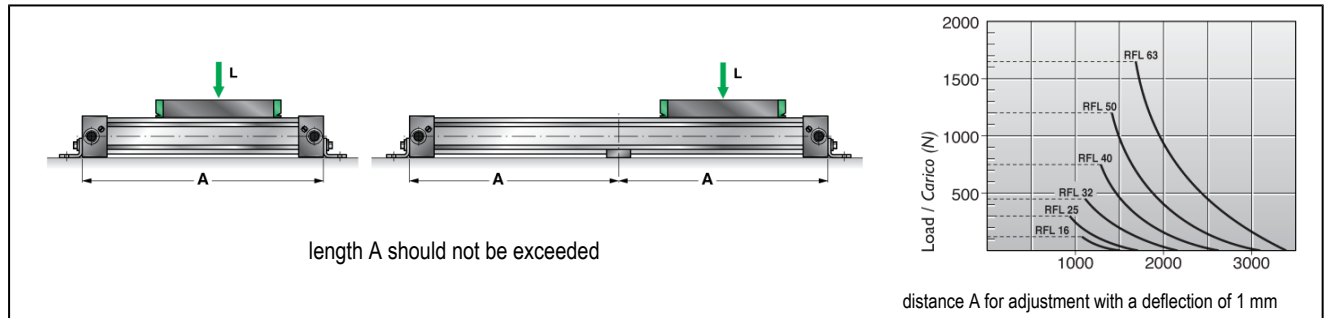


RLF 40 - 63:



| Ø  | A   | B    | C  | D   | E   | G    | M  | M1 | N  | N1  | P    | S    | U    | V  | VS | W   | WS  | W1   | W2   | Y    | cushion length | type           |
|----|-----|------|----|-----|-----|------|----|----|----|-----|------|------|------|----|----|-----|-----|------|------|------|----------------|----------------|
| 16 | 65  | 15,5 | 15 | 69  | 36  | M5   | M3 | M4 | 7  | 7   | 36,5 | 22   | 16,5 | 18 | 18 | 27  | 27  | 13,5 | 17,1 | 4,5  | 15             | RLF 16-.... .. |
| 25 | 100 | 21,5 | 23 | 111 | 65  | G1/8 | M5 | M5 | 12 | 8   | 52,5 | 33   | 25   | 27 | 27 | 40  | 40  | 20   | 25,8 | 6,5  | 21             | RLF 25-.... .. |
| 32 | 125 | 21   | 27 | 152 | 90  | G1/4 | M6 | M6 | 14 | 7,5 | 66,5 | 36   | 27   | 36 | 40 | 52  | 56  | 30   | 39   | 8    | 26             | RLF 32-.... .. |
| 40 | 150 | 44   | 30 | 152 | 90  | G1/4 | M6 | M6 | 17 | 10  | 80   | 36,4 | 27   | 54 | 54 | 72  | 69  | 36   | 48,8 | 9    | 32             | RLF 40-.... .. |
| 50 | 175 | 42   | 33 | 201 | 110 | G1/4 | M6 | M6 | 15 | 10  | 89   | 56   | 27   | 70 | 70 | 80  | 80  | 44,5 | 44,5 | 5    | 32             | RLF 50-.... .. |
| 63 | 215 | 48,5 | 50 | 233 | 155 | G3/8 | M8 | M8 | 17 | 14  | 123  | 50   | 36   | 78 | 78 | 106 | 106 | 62,5 | 48,8 | 14,5 | 40             | RLF 63-.... .. |

## shear force



## forces and torques

the indicated values are maximum values under a condition of small shock loading and a speed of 0,45m/s. max. pressure 6bar. an increase of the values in dynamic function, even if only short term, must be avoided. warning: resulting forces can lead to strong increases in the values. In case of undefinable situation maximum values have to be reduced for 20%..

| Ø  | longitudinal force [N]<br>at 6 bar | max. load L [N] | Ma axial [Nm] | Mr radial [Nm] | Mv central [Nm] |
|----|------------------------------------|-----------------|---------------|----------------|-----------------|
| 16 | 110                                | 120             | 4             | 0,45           | 0,5             |
| 25 | 250                                | 300             | 15            | 1,5            | 3               |
| 32 | 420                                | 450             | 30            | 3              | 4,5             |
| 40 | 640                                | 750             | 60            | 6              | 8               |
| 50 | 1000                               | 1200            | 115           | 10             | 15              |
| 63 | 1550                               | 1650            | 200           | 12             | 24              |

## accessories

### RLP - .. feet-type bracket

The image displays three views of the RLP bracket: an isometric view on the left, a top view in the center, and a side view on the right. The top view shows a rectangular base with a semi-circular cutout and four mounting holes. The side view shows the bracket's profile with dimensions A, B, C, D, E, F, G, and H. The isometric view shows the bracket's 3D structure, including the mounting holes and the semi-circular cutout.

| 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 |

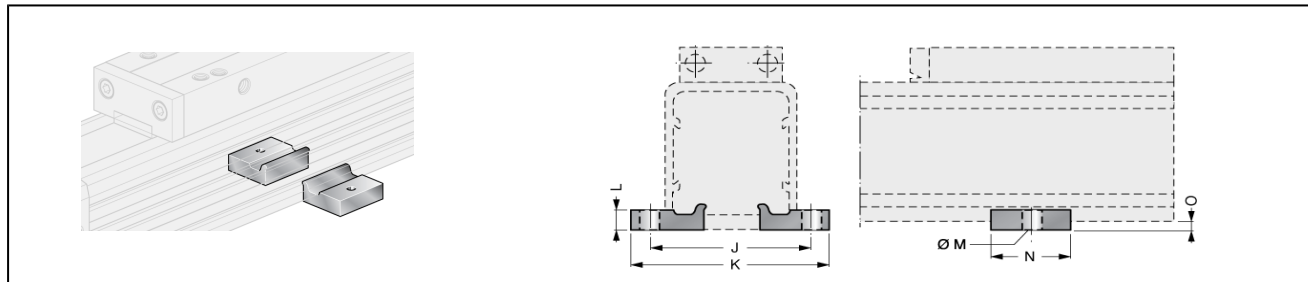
### RLQ - .. feet-type bracket

The image displays three technical drawings of the RLQ bracket:

- 3D Perspective View:** Shows the bracket's profile with two mounting holes and a cable clamp.
- Top View:** Shows the bracket's footprint with dimensions A (distance between mounting holes), B (total width), and C (distance from mounting holes to the cable clamp).
- Side View:** Shows the bracket's height and dimensions D (hole diameter), E (hole offset), F (hole diameter), G (hole offset), and H (total height).

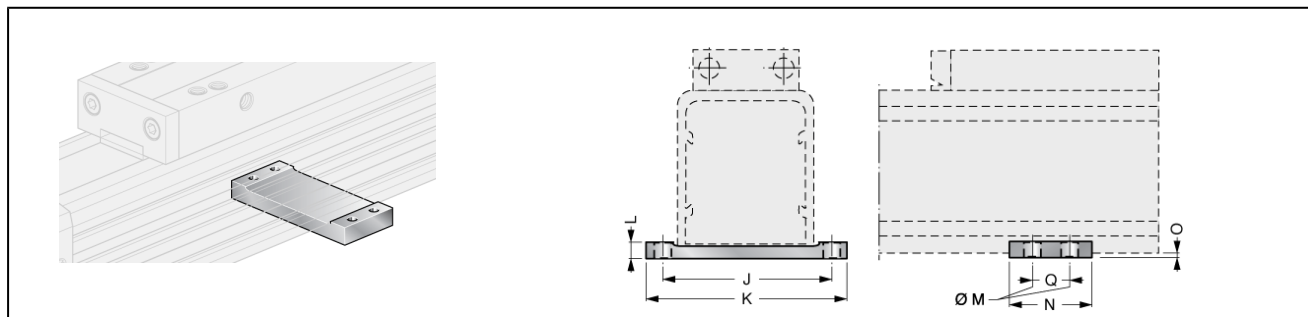
| Ø  | A  | B  | C    | ØD  | E    | F  | G   | H  | type   |
|----|----|----|------|-----|------|----|-----|----|--------|
| 32 | 20 | 36 | 51   | 6,6 | 6    | 24 | 4   | 20 | RLQ-32 |
| 40 | 30 | 54 | 71   | 9   | 11,5 | 24 | 2   | 20 | RLQ-40 |
| 50 | 40 | 70 | 84,5 | 9   | 12,5 | 25 | 2   | 25 | RLQ-50 |
| 63 | 48 | 78 | 105  | 11  | 15   | 30 | 2,5 | 40 | RLQ-63 |

## RLMI - .. bearing brackets



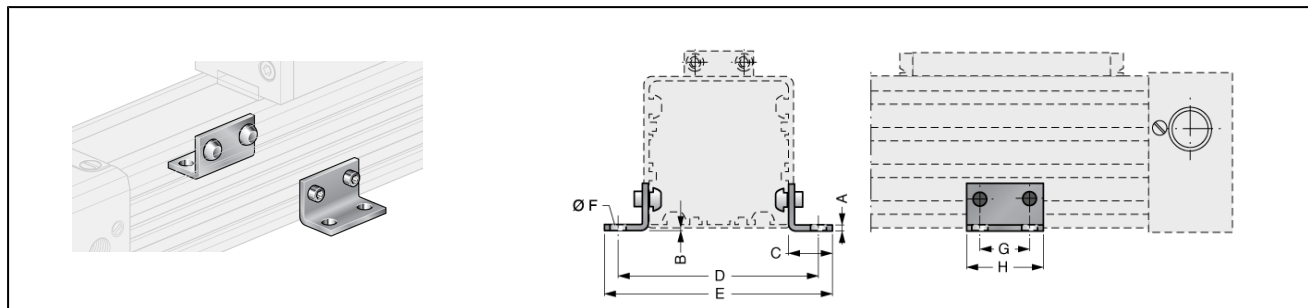
| Ø  | J  | K  | L | ØM  | N  | O | type    |
|----|----|----|---|-----|----|---|---------|
| 16 | 36 | 40 | 6 | 3,5 | 12 | 3 | RLMI-16 |
| 25 | 48 | 60 | 6 | 5,5 | 20 | 4 | RLMI-25 |

## 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 |

## RLML - .. bearing brackets



| Ø  | A | B   | C  | D   | E   | ØF  | G  | H  | type    |
|----|---|-----|----|-----|-----|-----|----|----|---------|
| 50 | 5 | 3,5 | 35 | 118 | 146 | 6,6 | 30 | 45 | RLML-50 |
| 63 | 5 | 4   | 35 | 147 | 172 | 6,6 | 30 | 45 | RLML-63 |

illustrations are for information only and are non-binding  
all designs, configurations, measurements and materials are subject to change without prior notice