

**'Stainless Steel' VDMA/ISO Cylinders**  
**Non-magnetic and magnetic Piston**  
**Double Acting**  
**Ø 32 to 200 mm**

- **High corrosion and acid resistant**
- **Conforming to Standards ISO 6431, VDMA 24562 and NFE 49-003-1**
- **Ideal for applications in the Food Industry**
- **Supplied complete with piston rod locknut**


**Technical Data**
**Medium:**

Compressed air, filtered, lubricated or non-lubricated

**Standard:**

ISO 6431, VDMA 24562, NFE 49-003-1 and corresponding BS

**Operation:**

|           |   |
|-----------|---|
| KA/8000   | Double acting, adjustable cushioning                  |
| KA/8000/M | Double acting, magnetic piston, adjustable cushioning |

**Operating Pressure:**

1 to 16 bar

**Operating Temperature:**

-20°C\* to +80°C max.

\*Consult our Technical Service for use below +2°C

**Cylinder Diameters:**

32, 40, 50, 63, 80, 100, 125, 160, 200 mm

**Strokes:**

Standard, see page N 1.5.127.02  
 Non-standard strokes (2500 mm max.) available

**Materials:**

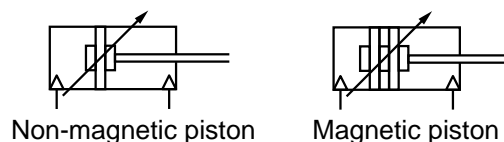
Barrel: X5 Cr Ni 18 10 (1.4301; AISI 304)  
 End covers: X10 Cr Ni S 18 9 (1.4305; AISI 303)  
 Piston rod: X10 Cr Ni S 18 9 (1.4305; AISI 303)  
 Nuts and screws: X10 Cr Ni S 18 9 (1.4305; AISI 303)  
 Tie rods: X5 Cr Ni Mo 17 12 2 (1.4401; AISI 316)  
 Piston: Aluminium  
 Cushion sleeve: POM  
 Piston rod seal and 'O'-rings: FPM  
 Piston seals: Polyurethane Ø 32 to 100 mm  
                   Nitrile rubber Ø 125 to 200 mm  
 Cushion seals: Nitrile rubber

**Ordering Examples**

See page N 1.5.127.03

**Mountings and Switches**

See page N 1.5.127.03





### Cylinder Variants

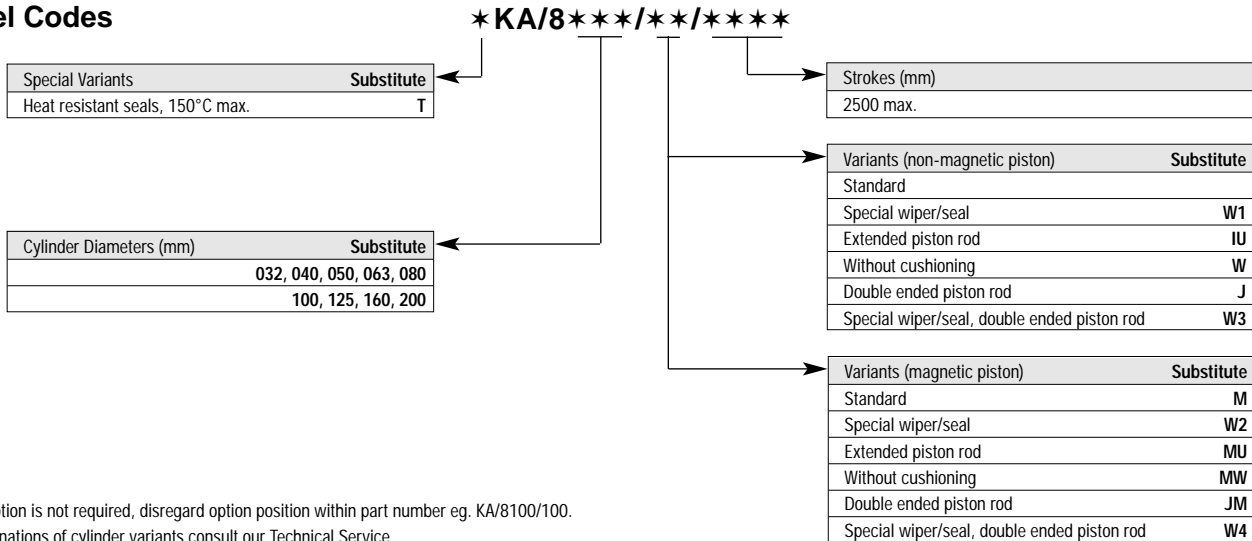
| Symbol | Model<br>Non-magnetic piston | Symbol | Model<br>Magnetic piston | Description  | Dimensions<br>Page |
|--------|------------------------------|--------|--------------------------|--|--------------------|
|        | KA/8000                      |        | KA/8000/M                | Standard cylinder  | 04                 |
|        | TKA/8000                     |        | T KA/8000/M              | Cylinder with heat resistant seal (150°C max.)   | 04                 |
|        | KA/8000/W1                   |        | KA/8000/W2               | Cylinder with special wiper/seal (polyurethane) for applications with arizona sand, cement, plaster (stucco), hoar-frost or ice (Ø 32 to 125 mm) | 04                 |
|        | KA/8000/IU                   |        | KA/8000/MU               | Cylinder with extended piston rod  | 04                 |
|        | KA/8000/W                    |        | KA/8000/MW               | Cylinder without cushioning  | 04                 |
|        | KA/8000/J                    |        | KA/8000/JM               | Cylinder with double ended piston rod  | 04                 |
|        | KA/8000/W3                   |        | KA/8000/W4               | Cylinder with special wiper/seal (polyurethane) for applications with arizona sand, cement, plaster (stucco), hoar-frost or ice (Ø 32 to 125 mm) | 04                 |

For combinations of cylinder variants consult our Technical Service.

### Standard Strokes

| Cylinder<br>Ø | Strokes (mm) |    |    |     |     |     |     |     |     |     |     |
|---------------|--------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|               | 25           | 50 | 80 | 100 | 125 | 160 | 200 | 250 | 320 | 400 | 500 |
| 32            | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 40            | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 50            | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 63            | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 80            | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 100           | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 125           | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 160           | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |
| 200           | ●            | ●  | ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |

### Model Codes



Note: If option is not required, disregard option position within part number eg. KA/8100/100.  
 For combinations of cylinder variants consult our Technical Service.

### Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

**System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.**

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.



## Mountings

|            | Style 'B', 'G' | Style 'C'   | Style 'D'   | Style 'F'    | Style 'L'   | Style 'S'   | Style 'SW' | Style 'UH'  | Bracket for Switches |
|------------|----------------|-------------|-------------|--------------|-------------|-------------|------------|-------------|----------------------|
|            |                |             |             |              |             |             |            |             |                      |
| Cylinder Ø | Page 05        | Page 05     | Page 06     | Page 05      | Page 06     | Page 07     | Page 06    | Page 07     | Page 07              |
| 32         | KQA/8032/22    | KQA/8032/21 | KQA/8032/23 | KQM/55433/25 | KQA/8032/24 | KQA/8032/41 | M/P72288   | KQA/8032/40 | QM/27/2/1            |
| 40         | KQA/8040/22    | KQA/8040/21 | KQA/8040/23 | KQM/55441/25 | KQA/8040/24 | KQA/8040/41 | M/P72289   | KQA/8040/40 | QM/27/2/1            |
| 50         | KQA/8050/22    | KQA/8050/21 | KQA/8050/23 | KQM/55451/25 | KQA/8050/24 | KQA/8040/41 | M/P72290   | KQA/8050/40 | QM/27/2/1            |
| 63         | KQA/8063/22    | KQA/8063/21 | KQA/8063/23 | KQM/55451/25 | KQA/8063/24 | KQA/8063/41 | M/P72291   | KQA/8063/40 | QM/27/2/1            |
| 80         | KQA/8080/22    | KQA/8080/21 | KQA/8080/23 | KQA/8080/25  | KQA/8080/24 | KQA/8063/41 | M/P72292   | KQA/8080/40 | QM/27/2/1            |
| 100        | KQA/8100/22    | KQA/8100/21 | KQA/8100/23 | KQA/8080/25  | KQA/8100/24 | KQA/8100/41 | M/P72293   | KQA/8100/40 | QM/27/2/1            |
| 125        | KQA/8125/22    | KQA/8125/21 | KQA/8125/23 | KQA/8125/25  | —           | KQA/8100/41 | —          | KQA/8125/40 | QM/27/2/1            |
| 160        | —              | —           | —           | —            | —           | —           | —          | —           | QM/27/2/1            |
| 200        | —              | —           | —           | —            | —           | —           | —          | —           | QM/27/2/1            |

## Materials of Mountings

|                       |   |
|-----------------------|---|
| Style 'B' and 'G'     | Flange mounting: X 5 Cr Ni 18 10 (1.4301; AISI 304), screws: A2   |
| Style 'C'             | Foot mounting: X 5 Cr Ni 18 10 (1.4301; AISI 304), screws: A2   |
| Style 'D'             | Clevis mounting: X 5 Cr Ni 18 10 (1.4301; AISI 304), screws: A2, bolt: X 10 Cr Ni S 18 9 (1.4305; AISI 303)   |
| Style 'F'             | Piston rod clevis mounting: X 10 Cr Ni S 18 9 (1.4305; AISI 303), bolt: X 10 Cr Ni S 18 9 (1.4305; AISI 303), eyebolt: X 10 Cr Ni S 18 9 (1.4305; AISI 303) |
| Style 'S'             | Swivel bearing: X 5 Cr Ni 18 10 (1.4301; AISI 304), bearing: PA   |
| Style 'SW'            | Bracket for clevis mounting: G-X 6 Cr Ni 18 9 (1.4308; AISI 304)  |
| Style 'UH'            | Adjustable intermediate mounting: X 10 Cr Ni S 18 9 (1.4305; AISI 303), bolts: X 10 Cr Ni S 18 9 (1.4305; AISI 303), screws: A2                             |
| Bracket for switches: | Body PA/PP, screw and holding strap A2  |

## Switches

|             |        |        |          |
|-------------|--------|--------|----------|
|             |        |        |          |
| Model       | Ø 8 mm | Ø 8 mm | Ø 8 mm   |
| Reed        | QM/33  | QM/34  | QM/34/P  |
| Solid stage | —      | QM/134 | QM/134/P |

| Model      | Reed        | Solid State | Voltage   |           | Current Max. | Temperature °C | LED | Features         | Cable Length | Cable Type      | Plug-in Cable |            | Catalogue Page |
|------------|-------------|-------------|-----------|-----------|--------------|----------------|-----|------------------|--------------|-----------------|---------------|------------|----------------|
|            |             |             | V a.c.    | V d.c.    |              |                |     |                  |              |                 | Straight      | 90°        |                |
| QM/33/**   | —           | —           | 10 to 240 | 10 to 240 | 1,5 A        | -20° to +80°   | —   | —                | 2, 5, 10 m   | PVC 2 x 0,34    | —             | —          | N 4.3.051      |
| TQM/33/**  | —           | —           | 10 to 30  | 10 to 30  | 1,5 A        | -20° to +150°  | —   | High Temperature | 5 m          | Silicone 2x0,34 | —             | —          | N 4.3.051      |
| QM/33/C/** | —           | —           | 10 to 110 | 10 to 175 | 0,25 A       | -20° to +80°   | —   | Changeover       | 5 m          | PVC 2 x 0,34    | —             | —          | N 4.3.051      |
| QM/34/**   | —           | —           | —         | 10 to 30  | 1 A          | -20° to +80°   | ●   | Output: Positive | 2, 5, 10 m   | PVC 3 x 0,34    | —             | —          | N 4.3.051      |
| QM/34/P    | —           | —           | —         | 10 to 30  | 1 A          | -20° to +80°   | ●   | Output: Positive | 5 m          | PVC 3 x 0,25    | M/P34614/5    | M/P34615/5 | N 4.3.051      |
| QM/34/S/** | —           | —           | 10 to 240 | 10 to 240 | 0,5 A        | -20° to +80°   | ●   | —                | 2, 5, 10 m   | PVC 2 x 0,34    | —             | —          | N 4.3.051      |
| QM/34/N/** | —           | —           | —         | 10 to 30  | 1 A          | -20° to +80°   | ●   | Output: Negative | 2, 5 m       | PVC 3 x 0,34    | —             | —          | N 4.3.051      |
| —          | QM/134/**   | —           | —         | 10 to 30  | 0,2 A        | -20° to +80°   | ●   | PNP              | 2, 5 m       | PVC 3 x 0,34    | —             | —          | N 4.3.055      |
| —          | QM/134/P    | —           | —         | 10 to 30  | 0,2 A        | -20° to +80°   | ●   | PNP              | 5 m          | PVC 3 x 0,25    | M/P34614/5    | M/P34615/5 | N 4.3.055      |
| —          | QM/134/E/** | —           | —         | 10 to 30  | 0,2 A        | -20° to +80°   | ●   | Pulse stretcher  | 5 m          | PVC 3 x 0,34    | —             | —          | N 4.3.055      |
| —          | QM/134/N/** | —           | —         | 10 to 30  | 0,2 A        | -20° to +80°   | ●   | NPN              | 2, 5 m       | PVC 3 x 0,34    | —             | —          | N 4.3.055      |
| —          | QM/134/N/P  | —           | —         | 10 to 30  | 0,2 A        | -20° to +80°   | ●   | NPN              | 5 m          | PVC 3 x 0,25    | M/P34614/5    | M/P34615/5 | N 4.3.055      |
| —          | QM/134/X/** | —           | —         | 8,2       | 2,2/1 mA     | -25° to +75°   | ●   | NAMUR            | 5 m          | PVC 2 x 0,34    | —             | —          | N 4.3.055      |

\*\* Insert cable length

Full information on switches (technical data, polyurethane cable, dimensions etc.) please see catalogue pages

## Ordering Examples

### Cylinders

To order a basic 80 mm bore magnetic piston cylinder with a 50 mm stroke quote: **KA/8080/M/50**

### Mountings

To order a front flange mounting style 'G' for 80 mm bore cylinder quote: **KQA/8080/22**

### Switches

To order a reed switch with LED and 2 m cable length quote: **QM/34/2**

### Brackets for switches

To order a bracket for magnetically operated switches QM/34; 80 mm bore cylinder quote: **QM/27/2/1**

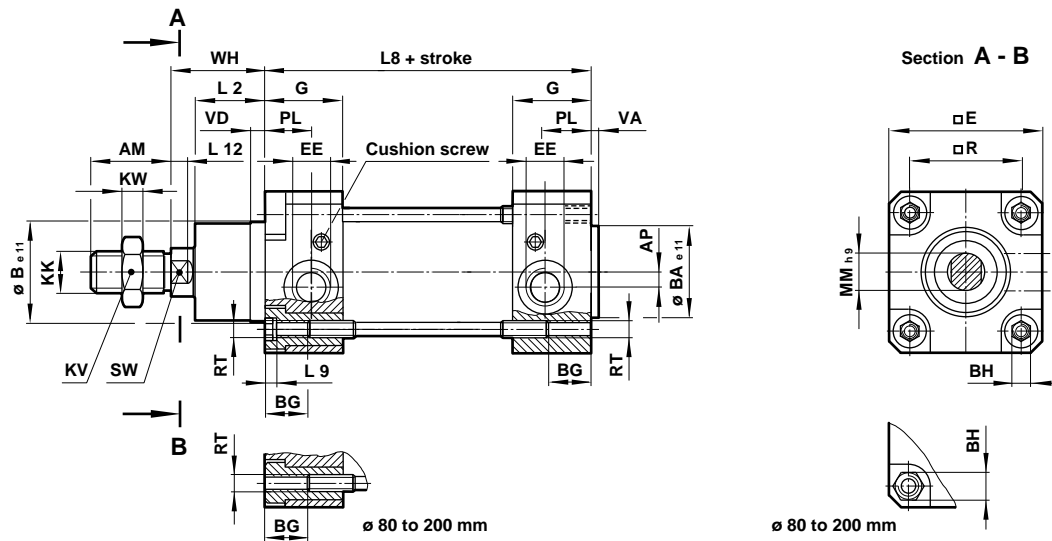


Theoretical Forces • Cushioning • Air Consumption

| Cylinder Ø | Theoretical forces (N) at 6 bar |          | Cushion length (mm) | Initial cushion volume (cm <sup>3</sup> ) | Air consumption (l/cm stroke) at 6 bar |          |
|------------|---------------------------------|----------|---------------------|---|--|----------|
|            | Outstroke                       | Instroke |                     |   | Outstroke                              | Instroke |
| 32         | 482                             | 414      | 19                  | 12,3                                      | 0,056                                  | 0,048    |
| 40         | 754                             | 633      | 22                  | 20,7                                      | 0,088                                  | 0,074    |
| 50         | 1178                            | 990      | 24                  | 36  | 0,137                                  | 0,114    |
| 63         | 1870                            | 1680     | 24                  | 64  | 0,218                                  | 0,195    |
| 80         | 3016                            | 2722     | 27                  | 116                                       | 0,35                                   | 0,32     |
| 100        | 4710                            | 4416     | 34                  | 242                                       | 0,55                                   | 0,51     |
| 125        | 7363                            | 6882     | 41                  | 451                                       | 0,86                                   | 0,79     |
| 160        | 12064                           | 11310    | 45                  | 816                                       | 1,41                                   | 1,32     |
| 200        | 18840                           | 18090    | 45                  | 1324                                      | 2,20                                   | 2,10     |

BASIC DIMENSIONS

KA/8000/M — Standard Cylinders



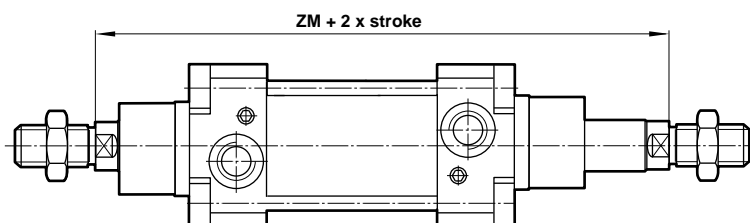
| Cylinder Ø | AM | AP  | Ø B e11 | Ø BA e11 | BG   | BH (A/F) | □ E | EE    | G    | KK       | KV (A/F) | KW   | L2 |
|------------|----|-----|---------|----------|------|----------|-----|-------|------|----------|----------|------|----|
| 32         | 22 | 3,5 | 30      | 30       | 18   | 6        | 47  | G 1/8 | 27,5 | M10x1,25 | 17       | 5    | 20 |
| 40         | 24 | 4,5 | 35      | 35       | 18   | 6        | 53  | G 1/4 | 32   | M12x1,25 | 19       | 6    | 22 |
| 50         | 32 | 6   | 40      | 40       | 18   | 8        | 65  | G 1/4 | 31   | M16x1,5  | 24       | 8    | 27 |
| 63         | 32 | 10  | 45      | 45       | 17,5 | 8        | 75  | G 3/8 | 33   | M16x1,5  | 24       | 8    | 29 |
| 80         | 40 | 8,5 | 45      | 45       | 21,5 | 19       | 95  | G 3/8 | 33   | M20x1,5  | 30       | 10   | 33 |
| 100        | 40 | 9   | 55      | 55       | 21,5 | 19       | 115 | G 1/2 | 37   | M20x1,5  | 30       | 10   | 36 |
| 125        | 54 | 10  | 60      | 60       | 32   | 24       | 140 | G 1/2 | 46   | M27x2    | 41       | 13,5 | 45 |
| 160        | 72 | 18  | 65      | 65       | 28,5 | 32       | 180 | G 3/4 | 50   | M36x2    | 55       | 18   | 58 |
| 200        | 72 | 18  | 75      | 75       | 28,5 | 32       | 220 | G 3/4 | 50   | M36x2    | 55       | 18   | 67 |

| Cylinder Ø | L8  | L9 | L12 | Ø MMh9 | PL   | □ R  | RT   | SW (A/F) | VA  | VD   | WH | at 0 mm  | at 25 mm |
|------------|-----|----|-----|--------|------|------|------|----------|-----|------|----|----------|----------|
| 32         | 94  | 4  | 6   | 12     | 13   | 32,5 | M 6  | 10       | 3   | 6    | 26 | 1,12 kg  | 0,06 kg  |
| 40         | 105 | 4  | 6,5 | 16     | 15   | 38   | M 6  | 13       | 3,5 | 6    | 30 | 1,65 kg  | 0,08 kg  |
| 50         | 106 | 5  | 8   | 20     | 18,5 | 46,5 | M 8  | 17       | 3,5 | 6    | 37 | 2,57 kg  | 0,13 kg  |
| 63         | 121 | 5  | 8   | 20     | 19   | 56,5 | M 8  | 17       | 4   | 6    | 37 | 3,95 kg  | 0,14 kg  |
| 80         | 128 | -  | 10  | 25     | 19   | 72   | M 10 | 22       | 4   | 6    | 46 | 6,64 kg  | 0,30 kg  |
| 100        | 138 | -  | 10  | 25     | 20,5 | 89   | M 10 | 22       | 4   | 6    | 51 | 10,67 kg | 0,34 kg  |
| 125        | 160 | -  | 13  | 32     | 20,5 | 110  | M 12 | 27       | 6   | 15,5 | 65 | 20,82 kg | 0,51 kg  |
| 160        | 180 | -  | 16  | 40     | 21   | 140  | M 16 | 36       | 4   | 15   | 80 | 37,3 kg  | 0,88 kg  |
| 200        | 180 | -  | 16  | 40     | 21   | 175  | M 16 | 36       | 5   | 15   | 95 | 59,0 kg  | 1,14 kg  |

CYLINDER VARIANTS

KA/8000/JM — Cylinder with Double Ended Piston Rod

| Cylinder Ø | ZM  | at 0 mm  | per 25 mm |
|------------|-----|----------|-----------|
| 32         | 146 | 1,17 kg  | 0,08 kg   |
| 40         | 165 | 1,80 kg  | 0,12 kg   |
| 50         | 180 | 2,81 kg  | 0,19 kg   |
| 63         | 195 | 4,22 kg  | 0,20 kg   |
| 80         | 220 | 7,18 kg  | 0,40 kg   |
| 100        | 240 | 11,21 kg | 0,44 kg   |
| 125        | 290 | 21,94 kg | 0,67 kg   |
| 160        | 340 | 39,54 kg | 1,13 kg   |
| 200        | 370 | 61,39 kg | 1,39 kg   |

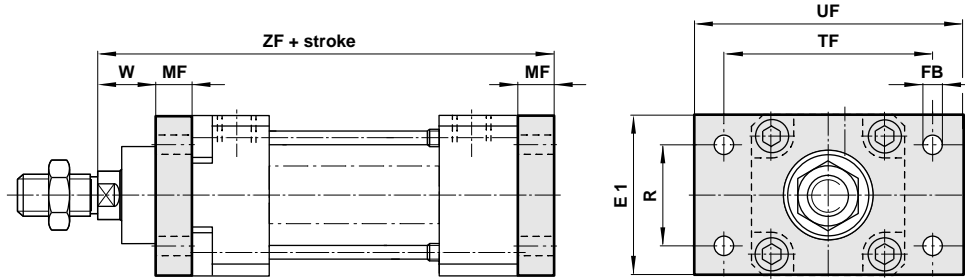




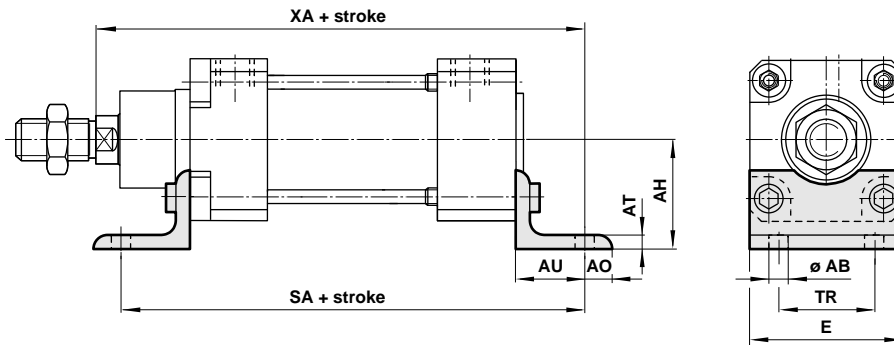
**MOUNTINGS**

**KQA/8000/22 — Rear Flange Mounting Style ‘B’**  
(Corresponds to DIN ISO 6431 and VDMA 24562 Part 2, Style MF2)

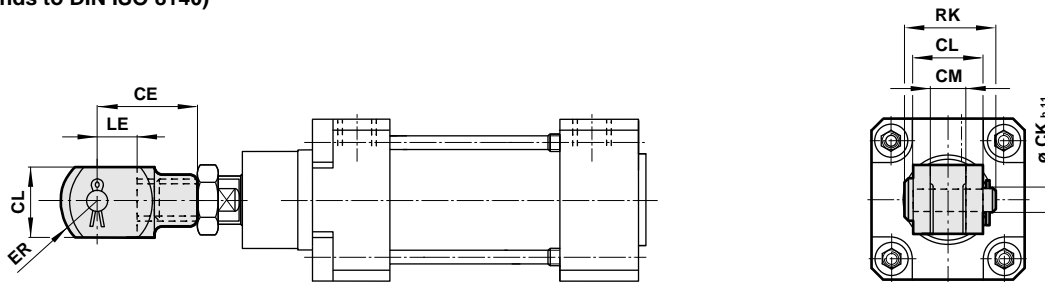
**KQA/8000/22 — Front Flange Mounting Style ‘G’**  
(Corresponds to DIN ISO 6431 and VDMA 24562 Part 2, Style MF1)



**KQA/8000/21 — Foot Mounting Style ‘C’**  
(Corresponds to DIN ISO 6431 and VDMA 24562 Part 2, Style MS1)



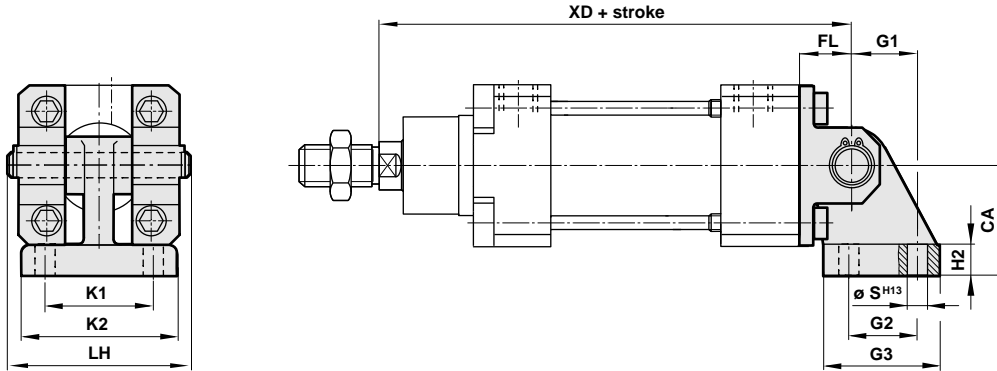
**KQM/55000/25, KQA/8000/25 — Piston Rod Clevis Mounting Style ‘F’**  
(Corresponds to DIN ISO 8140)



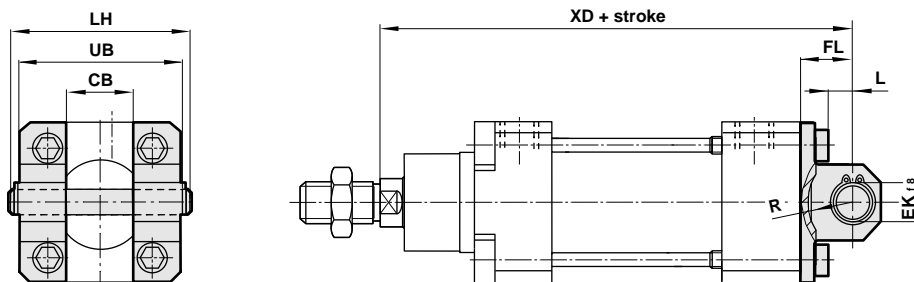
| Cylinder Ø | Ø AB | AH | AO   | AT  | AU  | CE  | Ø CK h11 | CL | CM  | E   | E1            | ER        | Ø FB      | R  |
|------------|------|----|------|-----|-----|-----|----------|----|-----|-----|---------------|-----------|-----------|----|
| 32         | 7    | 32 | 11   | 4   | 24  | 40  | 10       | 20 | 10  | 48  | 50            | 16        | 7         | 32 |
| 40         | 9    | 36 | 12   | 5   | 28  | 48  | 12       | 24 | 12  | 53  | 55            | 19        | 9         | 36 |
| 50         | 9    | 45 | 13   | 5   | 32  | 64  | 16       | 32 | 16  | 63  | 65            | 25        | 9         | 45 |
| 63         | 9    | 50 | 13   | 5   | 32  | 64  | 16       | 32 | 16  | 73  | 75            | 25        | 9         | 50 |
| 80         | 12   | 63 | 19   | 6   | 41  | 80  | 20       | 40 | 20  | 98  | 100           | 32        | 12        | 63 |
| 100        | 14   | 71 | 19   | 6   | 41  | 80  | 20       | 40 | 20  | 115 | 120           | 32        | 14        | 75 |
| 125        | 16   | 90 | 25   | 7   | 45  | 110 | 30       | 50 | 30  | 140 | 140           | 45        | 16        | 90 |
| Cylinder Ø | LE   | MF | RK   | SA  | TF  | TR  | UF       | W  | XA  | ZF  | Style 'B','G' | Style 'C' | Style 'F' |    |
| 32         | 20   | 10 | 28   | 142 | 64  | 32  | 80       | 16 | 144 | 130 | 0,26 kg       | 0,22 kg   | 0,09 kg   |    |
| 40         | 24   | 10 | 32   | 161 | 72  | 36  | 90       | 20 | 163 | 145 | 0,31 kg       | 0,31 kg   | 0,13 kg   |    |
| 50         | 32   | 12 | 41,5 | 170 | 90  | 45  | 110      | 25 | 175 | 155 | 0,56 kg       | 0,43 kg   | 0,33 kg   |    |
| 63         | 32   | 12 | 41,5 | 185 | 100 | 50  | 125      | 25 | 190 | 170 | 0,73 kg       | 0,49 kg   | 0,33 kg   |    |
| 80         | 40   | 16 | 58   | 210 | 126 | 63  | 154      | 30 | 215 | 190 | 1,73 kg       | 1,06 kg   | 0,67 kg   |    |
| 100        | 40   | 16 | 58   | 220 | 150 | 75  | 186      | 35 | 230 | 205 | 2,51 kg       | 1,25 kg   | 0,67 kg   |    |
| 125        | 54   | 20 | 72   | 250 | 180 | 90  | 224      | 45 | 270 | 245 | 4,48 kg       | 1,90 kg   | 1,35 kg   |    |



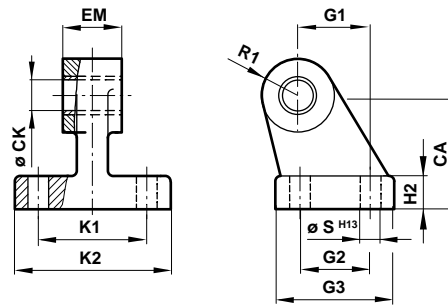
**KQA/8000/24 — Rear Hinge Mounting Style 'L'**  
(Corresponds to VDMA 24562 Part 2)



**KQA/8000/23 — Rear Clevis Mounting Style 'D'**  
(Corresponds to DIN ISO 6431 and VDMA 24562 Part 2, Style MP2)



**M/P722.. — Bracket for Clevis Mounting (wide clevis) Style 'SW'**  
(Corresponds to VDMA 24562, Part 2; for Rear Clevis Mounting Style 'D')



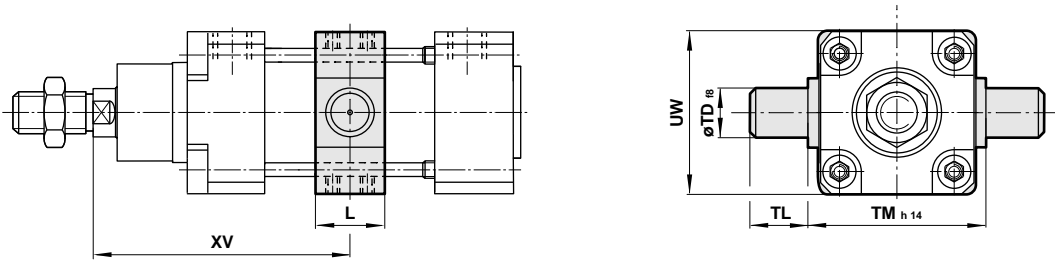
| Cylinder Ø | CA | CB | Ø CK | Ø EK 1/8 | EM | FL | G1 | G2 | G3 | H2 | K1 |
|------------|----|----|------|----------|----|----|----|----|----|----|----|
| 32         | 32 | 26 | 10   | 10       | 26 | 22 | 21 | 18 | 31 | 8  | 38 |
| 40         | 36 | 28 | 12   | 12       | 28 | 25 | 24 | 22 | 35 | 10 | 41 |
| 50         | 45 | 32 | 12   | 12       | 32 | 27 | 33 | 30 | 45 | 12 | 50 |
| 63         | 50 | 40 | 16   | 16       | 40 | 32 | 37 | 35 | 50 | 12 | 52 |
| 80         | 63 | 50 | 16   | 16       | 50 | 36 | 47 | 40 | 60 | 14 | 66 |
| 100        | 71 | 60 | 20   | 20       | 60 | 41 | 55 | 50 | 70 | 15 | 76 |
| 125        | —  | 70 | —    | —        | —  | 50 | —  | —  | —  | —  | —  |

| Cylinder Ø | K2 | L  | LH  | R    | R1 | Ø S H13 | UB  | XD  | Style 'L' | Style 'D' | Style 'SW' |
|------------|----|----|-----|------|----|---------|-----|-----|-----------|-----------|------------|
| 32         | 51 | 10 | 52  | 18   | 10 | 6,6     | 45  | 142 | 0,28 kg   | 0,13 kg   | 0,15 kg    |
| 40         | 54 | 13 | 60  | 20,5 | 11 | 6,6     | 52  | 160 | 0,41 kg   | 0,20 kg   | 0,21 kg    |
| 50         | 65 | 12 | 68  | 22,5 | 13 | 9       | 60  | 170 | 0,72 kg   | 0,31 kg   | 0,41 kg    |
| 63         | 67 | 17 | 79  | 27   | 15 | 9       | 70  | 190 | 1,07 kg   | 0,54 kg   | 0,53 kg    |
| 80         | 86 | 16 | 99  | 31   | 15 | 11      | 90  | 210 | 1,77 kg   | 0,95 kg   | 0,82 kg    |
| 100        | 96 | 21 | 119 | 36   | 19 | 11      | 110 | 230 | 2,28 kg   | 1,06 kg   | 1,22 kg    |
| 125        | —  | 28 | 140 | 43   | —  | —       | 130 | 275 | —         | 2,44 kg   | —          |

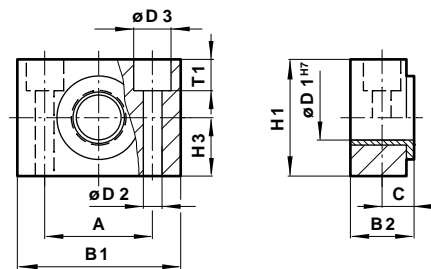


**KQA/8000/40 — Adjustable Intermediate Trunnion Mounting Style ‘UH’**  
(Corresponds to DIN ISO 6431 VDMA 24562 Part 2, Style MT4)



Note: It is most important that the locking screws which secure the mounting to the tie rod are tightened to the torque figures shown in the table below. For maximum energy input, consult our Technical Service.

**KQA/8000/41 — Swivel Bearing Style ‘S’**  
(For Trunnion Mountings Style ‘UH’)



| Cylinder Ø | A  | B1 | B2 | C    | Ø D1 H7 | Ø D2 | Ø D3 | H1 | H3 | L  |
|------------|----|----|----|------|---------|------|------|----|----|----|
| 32         | 32 | 46 | 18 | 10,5 | 12      | 6,6  | 11   | 30 | 15 | 20 |
| 40         | 36 | 55 | 21 | 12   | 16      | 9    | 15   | 36 | 18 | 24 |
| 50         | 36 | 55 | 21 | 12   | 16      | 9    | 15   | 36 | 18 | 28 |
| 63         | 42 | 65 | 23 | 13   | 20      | 11   | 18   | 40 | 20 | 28 |
| 80         | 42 | 65 | 23 | 13   | 20      | 11   | 18   | 40 | 20 | 28 |
| 100        | 50 | 75 | 28 | 16   | 25      | 14   | 20   | 50 | 25 | 38 |
| 125        | 50 | 75 | 28 | 16   | 25      | 14   | 20   | 50 | 25 | 50 |

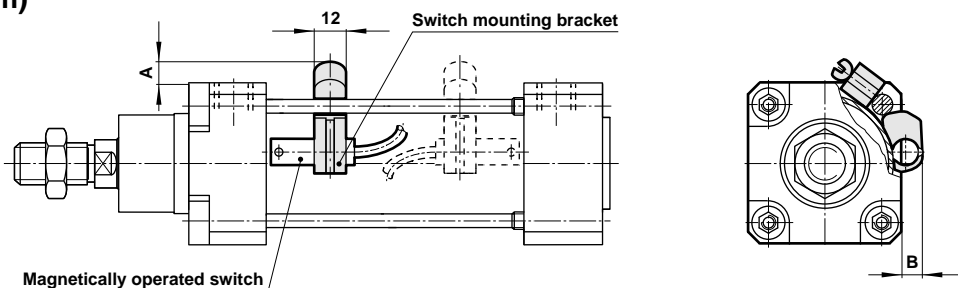
| Cylinder Ø | T1  | Ø TD r8 | TL | Ø TM h14 | UW  | XV min. | XV max.. | Torque | Style ‘UH’ | Style ‘S’ |
|------------|-----|---------|----|----------|-----|---------|----------|--------|------------|-----------|
| 32         | 6,8 | 12      | 12 | 50       | 53  | 63,5    | 82,5     | 6 Nm   | 0,24 kg    | 0,27 kg   |
| 40         | 9   | 16      | 16 | 63       | 65  | 74      | 91       | 6 Nm   | 0,48 kg    | 0,42 kg   |
| 50         | 9   | 16      | 16 | 75       | 75  | 82      | 98       | 10 Nm  | 0,70 kg    | 0,42 kg   |
| 63         | 11  | 20      | 20 | 90       | 95  | 84      | 111      | 10 Nm  | 1,35 kg    | 0,59 kg   |
| 80         | 11  | 20      | 20 | 110      | 115 | 93      | 127      | 15 Nm  | 1,46 kg    | 0,59 kg   |
| 100        | 13  | 25      | 25 | 132      | 140 | 107     | 133      | 15 Nm  | 2,76 kg    | 0,92 kg   |
| 125        | 13  | 25      | 25 | 160      | 143 | 136     | 154      | 25 Nm  | 3,28 kg    | 0,92 kg   |

**SWITCH MOUNTING BRACKETS**

**QM/27/2/1 — Bracket**

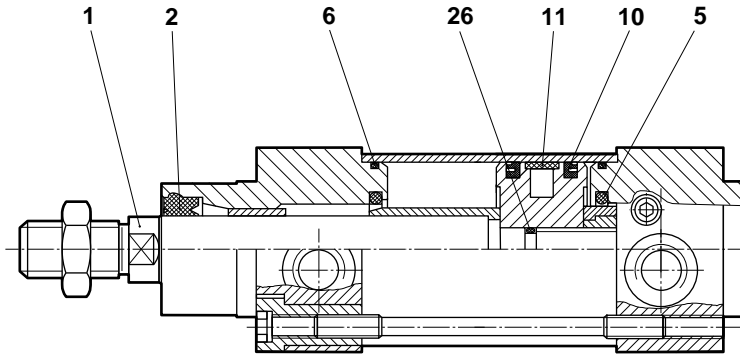
**QM/33, QM/34 and QM/134 (Ø 8 mm)**

| Cylinder Ø | A    | B    | Weight   |
|------------|------|------|----------|
| 32         | 9    | 7    | 0,010 kg |
| 40         | 8    | 8    | 0,010 kg |
| 50         | 7    | 5    | 0,010 kg |
| 63         | 7    | 7    | 0,010 kg |
| 80         | 7    | 4    | 0,010 kg |
| 100        | 2    | 2    | 0,010 kg |
| 125        | - 4  | - 3  | 0,010 kg |
| 160        | - 10 | - 9  | 0,010 kg |
| 200        | - 17 | - 14 | 0,010 kg |





SPARES



| Cylinder Ø | Model              | Spares kit  | Comprising Item | Description     | Quantity | Piston rod Item 1 |
|------------|--------------------|-------------|-----------------|-----------------|----------|-------------------|
| 32         | KA/8032, KA/8032/M | KQA/8032/00 | 2               | Piston rod seal | 1        | SM/P19966/*       |
| 40         | KA/8040, KA/8040/M | KQA/8040/00 | 5               | Cushion seal    | 2        | SM/P19967/*       |
| 50         | KA/8050, KA/8050/M | KQA/8050/00 | 6               | 'O'-ring        | 2        | SM/P19968/*       |
| 63         | KA/8063, KA/8063/M | KQA/8063/00 | 10              | Piston seal     | 2        | SM/P19969/*       |
| 80         | KA/8080, KA/8080/M | KQA/8080/00 | 11              | Wear ring       | 1        | SM/P19970/*       |
| 100        | KA/8100, KA/8100/M | KQA/8100/00 | 26              | 'O'-ring        | 1        | SM/P19971/*       |
| 125        | KA/8125, KA/8125/M | KQA/8125/00 |                 |                 |          | SM/P30988/*       |
| 160        | KA/8160, KA/8160/M | KQA/8160/00 |                 |                 |          | SM/P30989/*       |
| 200        | KA/8200, KA/8200/M | KQA/8200/00 |                 |                 |          | SM/P30990/*       |

\* Insert stroke length  
 Note: Please quote the cylinder type number when ordering spare parts  
 Spares for cylinder variants please consult our Technical Service