

| Standard executions | | |
|----------------------------------|--------|------|
| Version | Symbol | Type |
| Non magnetic (from 32 to 100) | | CX |
| Magnetic (from 25 to 200) | | CM |



For reed switches ASV see page 1.110.1
 For mounting accessories see from page 1.99.1
 For rod accessories see from page 1.85.10.



On request, they can be supplied according to 2014/34/EU - ATEX

Series of cylinders conforming to CNOMO standards. They are provided with a round barrel and external tie rods for the bores from 25 to 200 mm.

The standard cylinders are provided with adjustable cushionings at both ends.

| Options | Suffix |
|--|--------|
| Through rod | P |
| Rod INOX AISI 304 | K |
| Seals FKM -20°C ÷ +150°C | V |
| Scraper ring only FKM -20°C ÷ +80°C | V1 |
| Tandem forward movement piston rods coupled together | TA1 |
| Tandem forward movement piston rods independent | TA2 |
| Tandem back to back | TA3 |
| Tandem front to front | TA4 |
| Special length of front tie-rods (indicate the requested length. Ex: T1 = 25). The thread will remain standard | T1 |
| Special length of rear tie-rods (indicate the requested length. Ex: T2 = 25). The thread will remain standard | T2 |
| Special on request | /S |
| Without adjustable cushionings | D |
| Adjustable rear cushioning only | D1 |
| Adjustable front cushioning only | D2 |

The options can be combined (when this is possible).
 The suffix of the options are to be added to the model number of the standard product, as shown in the following table.

How to order: 50/200CXV

| | | | | |
|------|---|--------|------|--------|
| 50 | / | 200 | CX | V |
| Bore | / | Stroke | Type | Option |

How to order: 50 / SG / CX

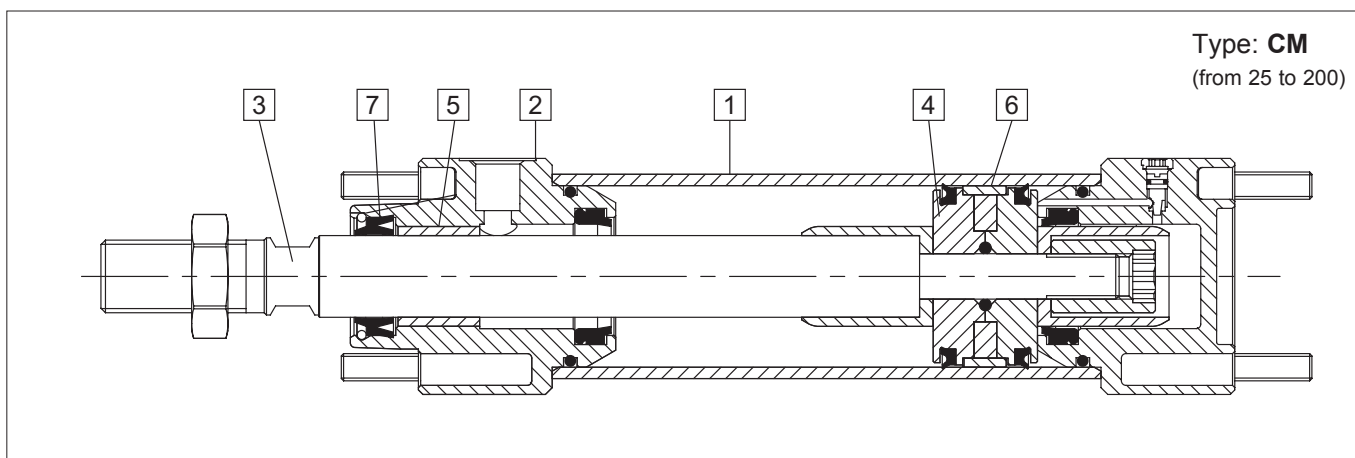
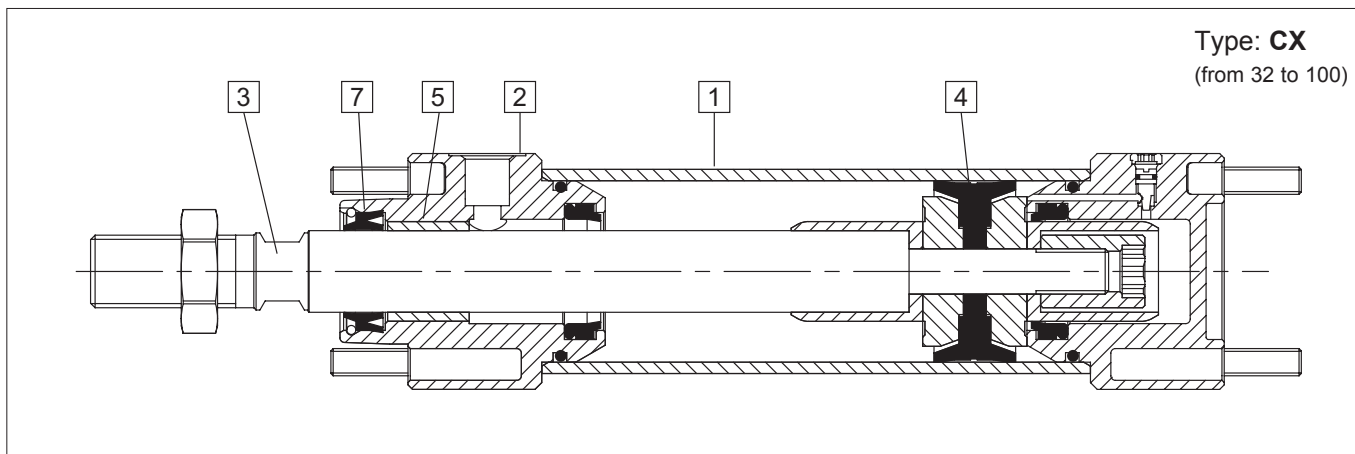
| | | | | |
|------|---|----------|---|------|
| 50 | / | SG | / | CX |
| Bore | / | Seal kit | / | Type |

How to order: 50 / SG / CM

| | | | | |
|------|---|----------|---|------|
| 50 | / | SG | / | CM |
| Bore | / | Seal kit | / | Type |

| Seals kits | |
|------------|---------------------------------|
| n. 1 | Rod seal |
| n. 2 | Cushioning seal |
| n. 1 | Piston monobloc |
| n. 2 | Tube O-ring |
| n. 2 | O-ring for cushioning screw |
| n. 2 | O-ring to seal two semi-pistons |

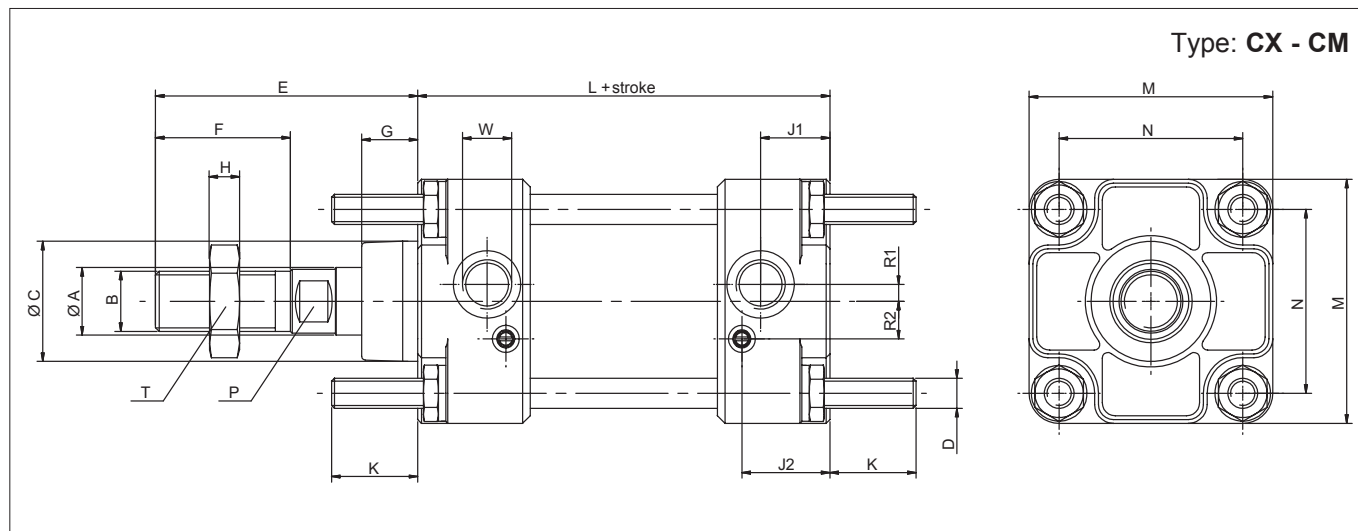
| Seals kits | |
|------------|---------------------------------|
| n. 1 | Rod seal |
| n. 2 | Cushioning seal |
| n. 2 | Piston lip-seal |
| n. 2 | Tube O-ring |
| n. 1 | Piston guiding ring |
| n. 2 | O-ring for cushioning screw |
| n. 2 | O-ring to seal two semi-pistons |



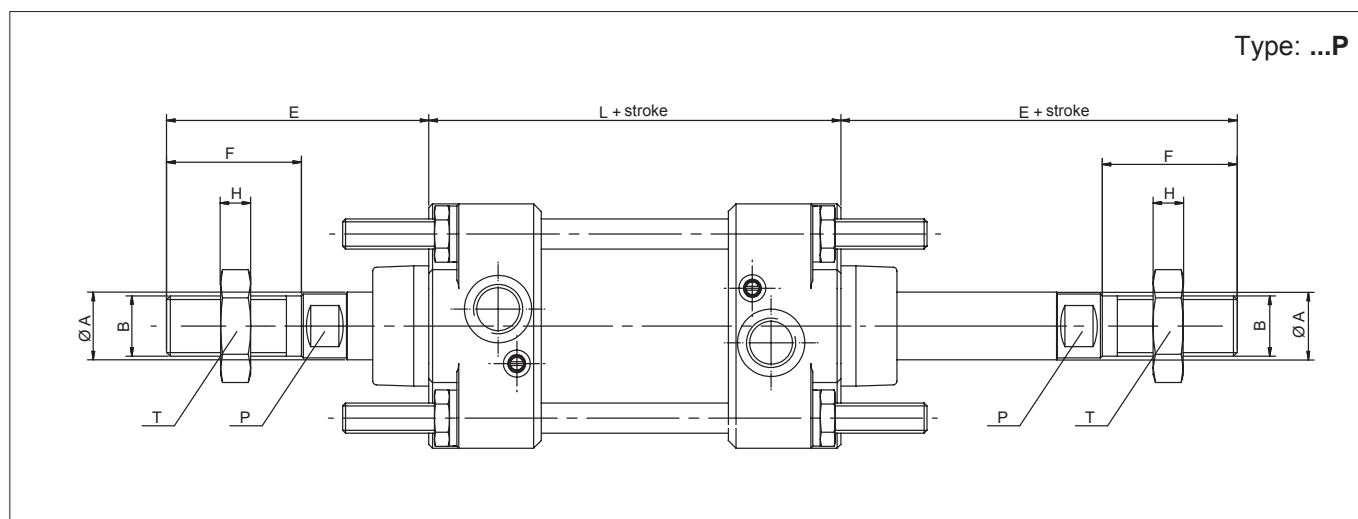
See page 1.1.3 to calculate the cylinder force.

| Materials (standard types) | |
|----------------------------|--|
| 1 Tube | Anodised aluminium |
| 2 Heads | Die-cast painted aluminium |
| 3 Rod | Chrome-plated steel C45 |
| 4 Piston | CX: Monobloc (from 32 to 100) - CM: Aluminium (from 25 to 200) |
| 5 Bushing | Self-lubricating sintered bronze |
| 6 Guide ring | Natural Delrin (CM) |
| 7 Rod seals | NBR |
| Other seals | Nitrile rubber NBR/polyurethane |

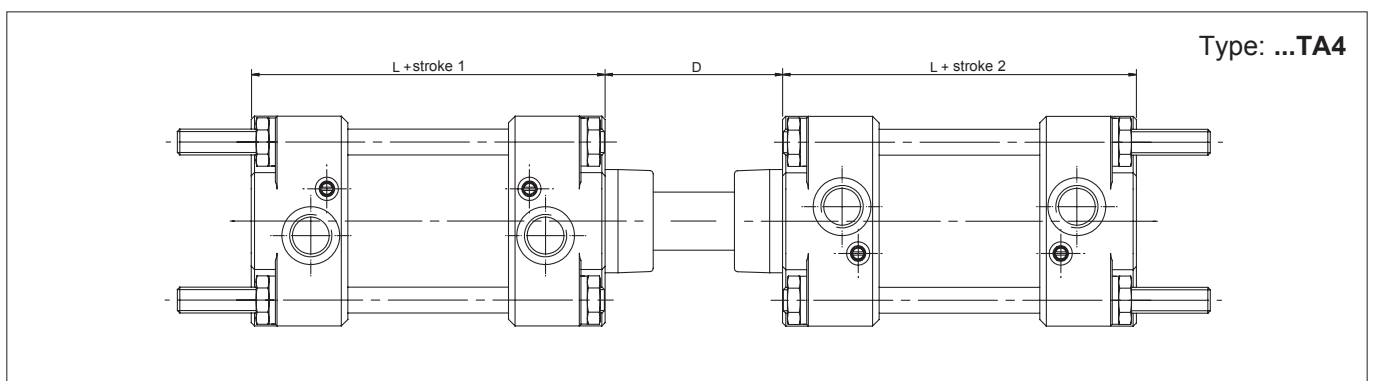
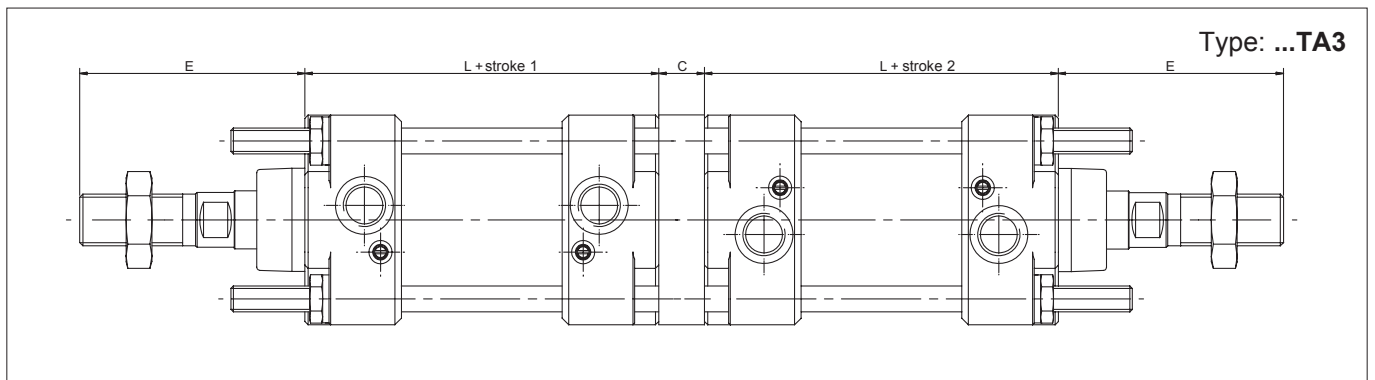
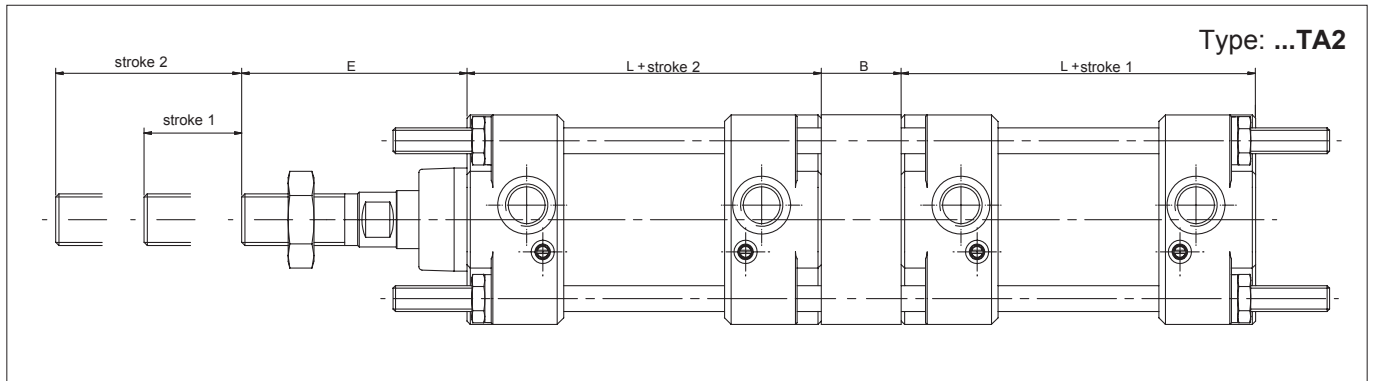
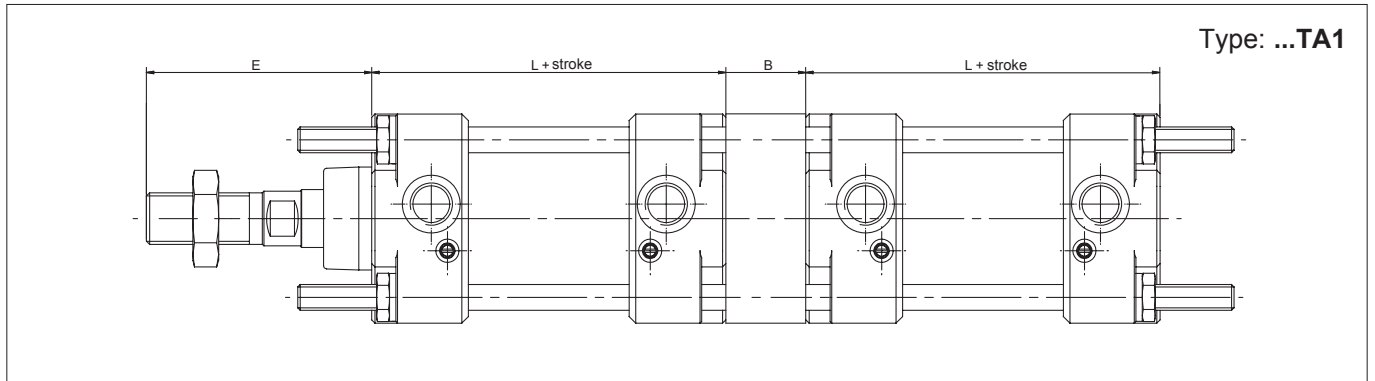
| Technical data | | | | | | | | | | | |
|-------------------|--|-----|-----|-----|------|--------------------|------|------|------|-------|-------|
| Bore (mm) | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | |
| Fluid | Compressed filtered air with or without lubrication. Lubrication, if started, must be continued. | | | | | | | | | | |
| Pressure | 1 ÷ 10 bar | | | | | | | | | | |
| Temperature range | -20°C ÷ +80°C (standard /V1) | | | | | -20°C ÷ +150°C (V) | | | | | |
| Stroke | from 10 mm to 2500 mm | | | | | | | | | | |
| Cushion length | 21 | 21 | 28 | 28 | 34 | 34 | 38 | 27 | 40 | 40 | |
| Weight | Stroke zero (g) | 377 | 453 | 842 | 1231 | 1962 | 2867 | 4772 | 6146 | 12846 | 16175 |
| | Additional 10 mm stroke (g) | 22 | 24 | 35 | 50 | 60 | 76 | 107 | 135 | 232 | 249 |



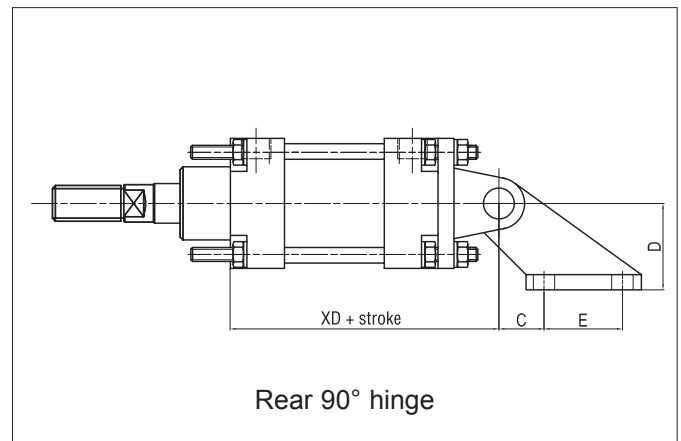
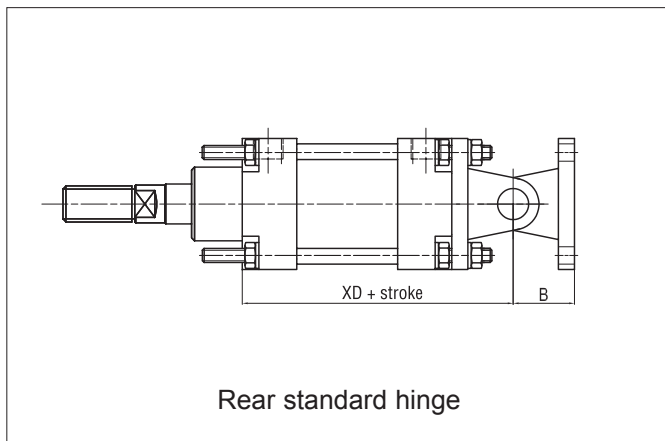
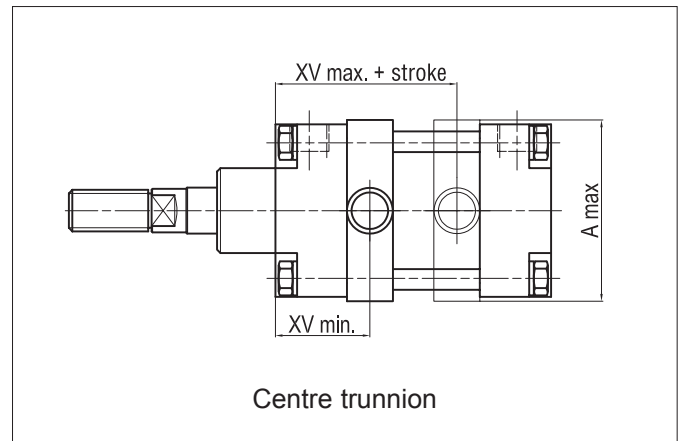
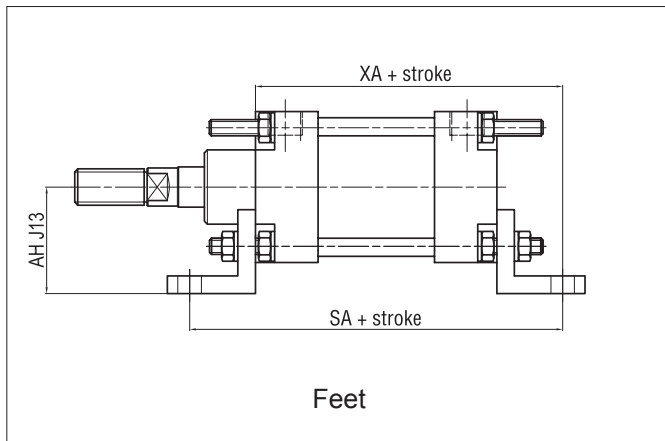
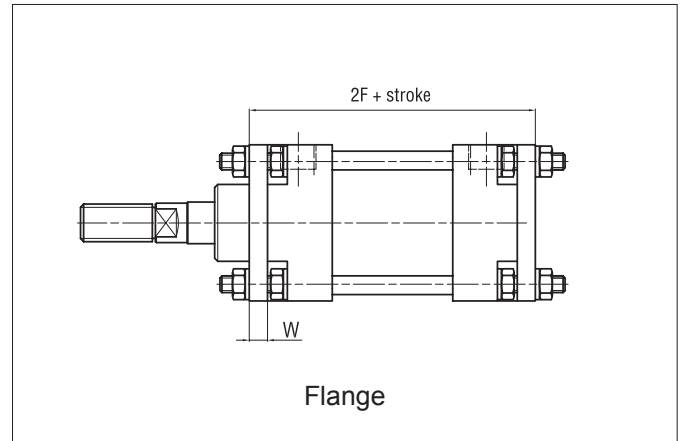
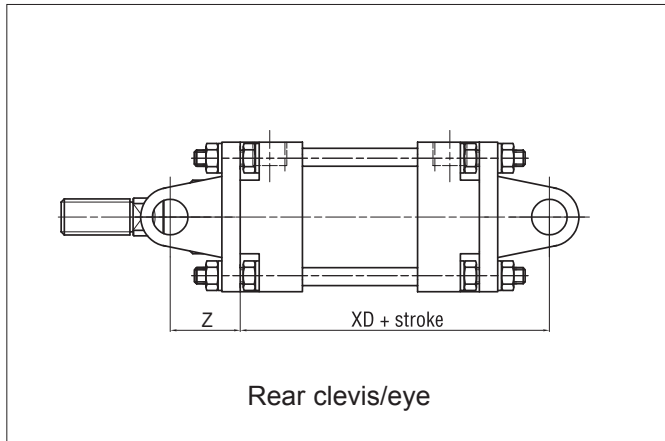
| Ø (mm) | Ø A f7 | B | Ø C e9 | E | F | G | L ± 1 | P | T | H | D | K | W | M | N | J1 | J2 | R1 | R2 |
|--------|--------|---------|--------|-----|----|----|-------|----|----|----|-----|----|------|-----|-----|------|------|------|-----|
| 25 | 12 | M10x1,5 | 25 | 45 | 20 | 15 | 80 | 8 | 17 | 6 | M6 | 17 | 1/8" | 40 | 28 | 7 | 11 | 0.75 | 7,5 |
| 32 | 12 | M10x1,5 | 25 | 45 | 20 | 15 | 80 | 8 | 17 | 6 | M6 | 17 | 1/8" | 45 | 33 | 15 | 16,5 | 6 | 8 |
| 40 | 18 | M16x1,5 | 32 | 70 | 36 | 15 | 110 | 13 | 24 | 8 | M6 | 17 | 1/4" | 52 | 40 | 17,5 | 23 | 3 | 11 |
| 50 | 18 | M16x1,5 | 32 | 70 | 36 | 15 | 110 | 13 | 24 | 8 | M8 | 23 | 1/4" | 65 | 49 | 18,5 | 23,5 | 4,5 | 10 |
| 63 | 22 | M20x1,5 | 45 | 85 | 46 | 20 | 125 | 17 | 30 | 9 | M8 | 23 | 3/8" | 75 | 59 | 19 | 23 | 4,5 | 14 |
| 80 | 22 | M20x1,5 | 45 | 85 | 46 | 20 | 125 | 17 | 30 | 9 | M10 | 28 | 3/8" | 95 | 75 | 22 | 25 | 8 | 13 |
| 100 | 30 | M27x2 | 55 | 110 | 63 | 20 | 145 | 22 | 41 | 12 | M10 | 28 | 1/2" | 115 | 90 | 26 | 31 | 12 | 10 |
| 125 | 30 | M27x2 | 55 | 110 | 63 | 20 | 145 | 22 | 41 | 12 | M12 | 34 | 1/2" | 140 | 110 | - | - | - | - |
| 160 | 40 | M36x2 | 65 | 135 | 85 | 25 | 180 | 32 | 54 | 14 | M16 | 42 | 3/4" | 180 | 140 | - | - | - | - |
| 200 | 40 | M36x2 | 65 | 135 | 85 | 25 | 180 | 32 | 54 | 14 | M16 | 42 | 3/4" | 220 | 175 | - | - | - | - |



| Ø (mm) | Ø A f7 | B | E | F | L ± 1 | P | T | H |
|--------|--------|---------|-----|----|-------|----|----|----|
| 25 | 12 | M10x1,5 | 45 | 20 | 90 | 8 | 17 | 6 |
| 32 | 12 | M10x1,5 | 45 | 20 | 90 | 8 | 17 | 6 |
| 40 | 18 | M16x1,5 | 70 | 36 | 129 | 13 | 24 | 8 |
| 50 | 18 | M16x1,5 | 70 | 36 | 129 | 13 | 24 | 8 |
| 63 | 22 | M20x1,5 | 85 | 46 | 143 | 17 | 30 | 9 |
| 80 | 22 | M20x1,5 | 85 | 46 | 143 | 17 | 30 | 9 |
| 100 | 30 | M27x2 | 110 | 63 | 164 | 22 | 41 | 12 |
| 125 | 30 | M27x2 | 110 | 63 | 164 | 22 | 41 | 12 |
| 160 | 40 | M36x2 | 135 | 85 | 200 | 32 | 54 | 14 |
| 200 | 40 | M36x2 | 135 | 85 | 200 | 32 | 54 | 14 |



| Ø | E | L | B | C | D |
|-----|-----|-----|----|----|-----|
| 25 | 45 | 80 | 30 | 5 | 36 |
| 32 | 45 | 80 | 30 | 5 | 38 |
| 40 | 70 | 110 | 30 | 8 | 40 |
| 50 | 70 | 110 | 30 | 8 | 47 |
| 63 | 85 | 125 | 40 | 10 | 59 |
| 80 | 85 | 125 | 40 | 10 | 62 |
| 100 | 110 | 145 | 40 | 15 | 55 |
| 125 | 110 | 145 | 40 | 15 | 80 |
| 160 | 135 | 180 | 50 | 20 | 102 |
| 200 | 135 | 180 | 50 | 20 | 87 |



For dimensions and codes of the accessories see page 1.99.1.

| Ø mm | A max | AH | B | C | D | E | SA | W | XA | XD | XV min | XV max | 2F | Z |
|------|-------|-----|----|----|-----|-----|-----|----|-----|-----|--------|--------|-----|----|
| 32 | 46 | 32 | 18 | 18 | 32 | 20 | 134 | 8 | 107 | 98 | 32,5 | 47,5 | 96 | 18 |
| 40 | 58 | 36 | 26 | 25 | 45 | 32 | 164 | 8 | 137 | 134 | 41 | 69 | 126 | 24 |
| 50 | 68 | 45 | 26 | 25 | 45 | 32 | 180 | 10 | 145 | 138 | 45 | 65 | 130 | 26 |
| 63 | 84 | 45 | 34 | 32 | 63 | 50 | 195 | 10 | 160 | 155 | 52,5 | 72,5 | 145 | 35 |
| 80 | 102 | 63 | 34 | 32 | 63 | 50 | 211 | 12 | 168 | 157 | 52,5 | 72,5 | 149 | 32 |
| 100 | 124 | 73 | 41 | 40 | 90 | 70 | 231 | 12 | 188 | 182 | 57 | 88 | 169 | 34 |
| 125 | 152 | 91 | 41 | 40 | 90 | 70 | 249 | 15 | 197 | 186 | 58 | 87 | 175 | 41 |
| 160 | 190 | 115 | 55 | 50 | 140 | 110 | 304 | 20 | 242 | 235 | 67 | 113 | 220 | 55 |
| 200 | 250 | 135 | 55 | 50 | 140 | 110 | 304 | 20 | 242 | 235 | 68 | 112 | 220 | 55 |