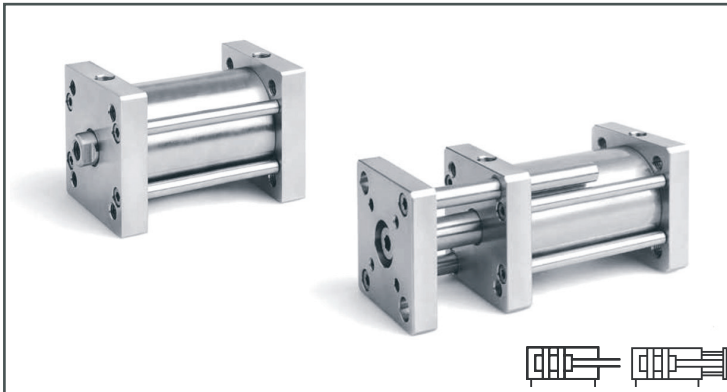


Ø20 - Ø100 - COMPACT CYLINDER - ISO 21287

Type 5150-UG / 5150-IG / 5150-MF

24/01-17 Vers. 2

**ART. NO.**

| | Male piston rod thread | Female piston rod thread | With guide rod and yoke plate |
|----------------|------------------------|--------------------------|-------------------------------|
| U020 0000 5150 | -UG | -IG | -MF |
| U025 0000 5150 | -UG | -IG | -MF |
| U032 0000 5150 | -UG | -IG | -MF |
| U040 0000 5150 | -UG | -IG | -MF |
| U050 0000 5150 | -UG | -IG | -MF |
| U063 0000 5150 | -UG | -IG | -MF |
| U080 0000 5150 | -UG | -IG | -MF |
| U100 0000 5150 | -UG | -IG | -MF |

Compact Cylinder ISO 21287 (Ø20-Ø100):

Compact Cylinder 5150 is a standard UNIC Stainless Cylinder® to DIN/ISO 21287 (Ø20-Ø100) with a permanent magnet, adjustable end stroke-cushioning and is fitted with nitrile rubber (NBR) / polyurethane (PU) packings and POM piston.

Max tryk: 10 bar.

Temperatur: ±20°C til +80°C

Standard slaglængder: 10-500 mm.

MATERIAL

Piston rod, fittings: AISI 304 / (WST. 1.4301).
 Cylinder pipe and end caps: AISI 304 / (WST. 1.4301).
 Tie rods and screws: AISI 304 / (WST. 1.4301)

CHEMICAL RESISTANCE

Viton (FPM) packings are an option in order to achieve higher resistance towards chemicals, if needed. When ordering a cylinder with high resistance to chemicals, add the letter „C“ to the end of the product number.

HEAT-RESISTANT +150°C

A heat-resistant cylinder has no magnet. The piston is made from aluminium, and the packings from Viton (FPM). A heat-resistant UNIC Stainless Cylinder® can run in ambient temperatures up to +150°C. When ordering a heat-resistant cylinder, add the letter „H“ to the end of the product number.

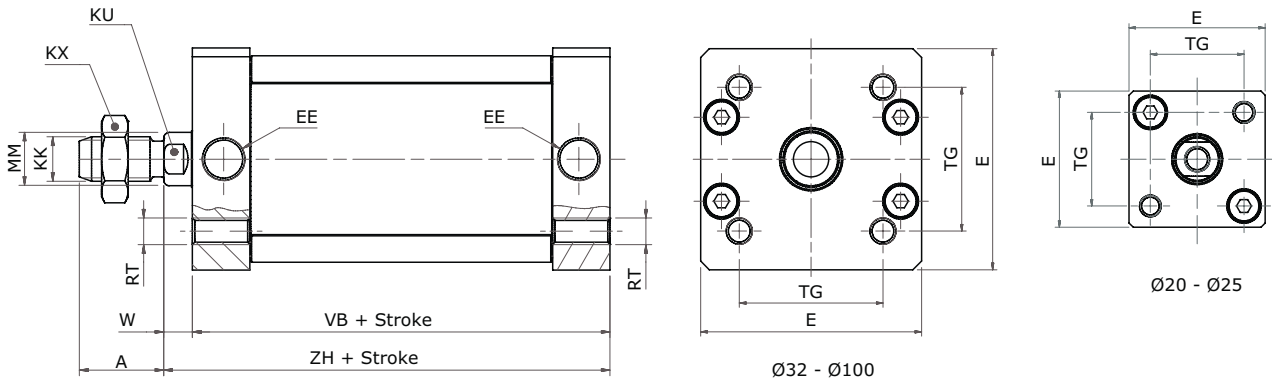
ORDER SAMPLE

Order sample for heat-resistant and chemical-resistant cylinder.

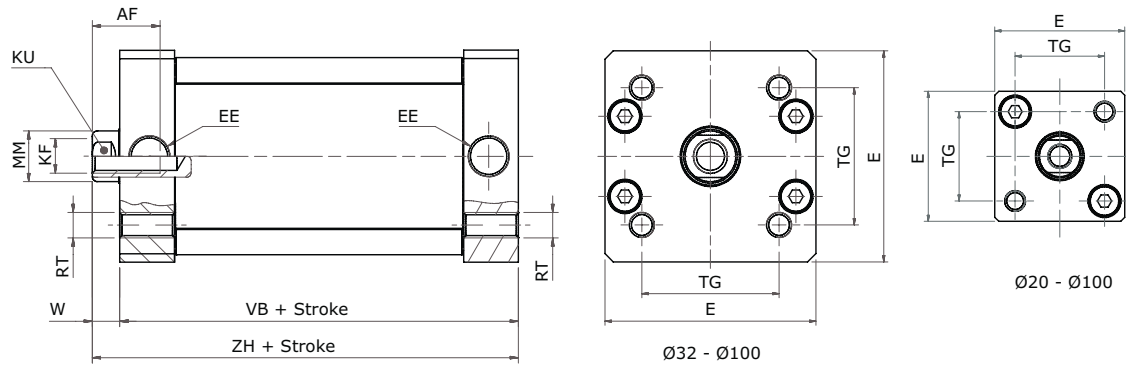
Cylinder with **male piston rod thread**:U080 0050 5150-**UG**Cylinder with **female piston rod thread**:U080 0050 5150-**IG**Cylinder with **guide rod and yoke plate**:U080 0050 5150-**MF****Heat-resistant** cylinder with male piston rod thread:U080 0050 5150-**UGH****Chemical-resistant** cylinder with female piston rod thread:U080 0050 5150-**UGC**Cylinder based on **ISO 21287**

MEASUREMENTFORM(MM)

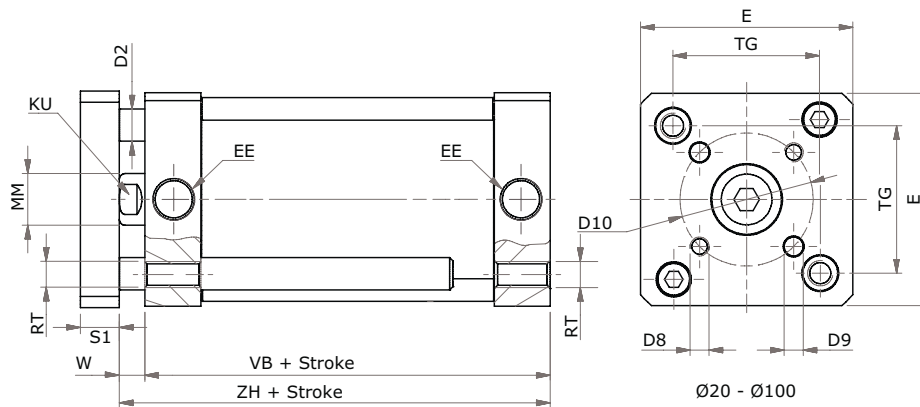
Type 5150-UG



Type 5150-IG



Type 5150-MF



| Cyl.Ø | A | AF | KF | E | EE | KK | KU | KX | VB | MM | D2 | D8 | D9 | D10 | S1 | RT | TG | W | ZH |
|-------|----|----|-----|-----|-------|----------|----|----|----|-----|----|-----|----|-----|----|-----|------|-----|------|
| 20 | 16 | 10 | M6 | 32 | M5 | M8 | 8 | 13 | 37 | Ø10 | 6 | M4 | 4 | 17 | 8 | M5 | 22 | 6,5 | 43,5 |
| 25 | 16 | 10 | M6 | 36 | M5 | M8 | 8 | 13 | 39 | Ø10 | 6 | M5 | 5 | 22 | 8 | M5 | 26 | 6 | 45 |
| 32 | 19 | 12 | M8 | 50 | G1/8" | M10x1,25 | 10 | 17 | 44 | Ø12 | 6 | M5 | 5 | 28 | 10 | M6 | 32,5 | 6,5 | 50,5 |
| 40 | 19 | 12 | M8 | 57 | G1/8" | M10x1,25 | 10 | 17 | 45 | Ø12 | 8 | M5 | 5 | 33 | 10 | M6 | 38 | 7 | 52 |
| 50 | 22 | 16 | M10 | 67 | G1/8" | M12x1,25 | 13 | 19 | 45 | Ø16 | 10 | M6 | 6 | 42 | 12 | M8 | 46,5 | 8 | 53 |
| 63 | 22 | 16 | M10 | 80 | G1/8" | M12x1,25 | 13 | 19 | 49 | Ø16 | 10 | M6 | 6 | 50 | 12 | M8 | 56,5 | 8 | 57 |
| 80 | 28 | 20 | M12 | 96 | G1/8" | M16x1,50 | 17 | 24 | 54 | Ø20 | 12 | M8 | 8 | 65 | 14 | M10 | 72 | 10 | 64 |
| 100 | 28 | 20 | M12 | 116 | G1/8" | M16x1,50 | 22 | 24 | 67 | Ø25 | 14 | M10 | 10 | 80 | 14 | M10 | 89 | 10 | 77 |

THEORETICAL CYLINDER FORCES

Type 5150-UG / 5150-IG / 5150-MF

| In NEWTON | | | | | | | | | | | |
|-----------|----------|-----------------------------|------|-------|------|-------|------|-------|------|-------|------|
| cyl. Ø | Piston Ø | Piston area cm ² | | 3 bar | | 4 bar | | 5 bar | | 6 bar | |
| | | ● | ○ | ● | ○ | ● | ○ | ● | ○ | ● | ○ |
| 20 | 10 | 3,1 | 2,6 | 82 | 69 | 109 | 92 | 136 | 114 | 164 | 137 |
| 25 | 10 | 4,9 | 4,1 | 129 | 108 | 172 | 144 | 216 | 180 | 259 | 216 |
| 32 | 12 | 8,0 | 6,9 | 212 | 182 | 282 | 243 | 352 | 304 | 422 | 364 |
| 40 | 12 | 12,6 | 10,6 | 333 | 282 | 444 | 373 | 554 | 466 | 665 | 560 |
| 50 | 16 | 19,6 | 16,5 | 517 | 436 | 690 | 581 | 862 | 726 | 1035 | 871 |
| 63 | 16 | 31,1 | 28,0 | 824 | 739 | 1098 | 986 | 1373 | 1232 | 1647 | 1478 |
| 80 | 20 | 50,3 | 45,3 | 1328 | 119 | 1771 | 1598 | 2213 | 1998 | 2656 | 2397 |
| 100 | 25 | 78,5 | 73,6 | 2072 | 1943 | 2763 | 2591 | 3454 | 3238 | 4145 | 3886 |

| In NEWTON | | | | | | | | | | | |
|-----------|----------|-----------------------------|------|-------|------|-------|------|-------|------|--------|------|
| cyl. Ø | Piston Ø | Piston area cm ² | | 7 bar | | 8 bar | | 9 bar | | 10 bar | |
| | | ● | ○ | ● | ○ | ● | ○ | ● | ○ | ● | ○ |
| 20 | 10 | 3,1 | 2,6 | 191 | 160 | 218 | 183 | 246 | 206 | 273 | 229 |
| 25 | 10 | 4,9 | 4,1 | 302 | 253 | 345 | 289 | 388 | 325 | 421 | 361 |
| 32 | 12 | 8,0 | 6,9 | 493 | 425 | 563 | 486 | 634 | 546 | 704 | 607 |
| 40 | 12 | 12,6 | 10,6 | 776 | 653 | 887 | 746 | 998 | 840 | 1109 | 933 |
| 50 | 16 | 19,6 | 16,5 | 1207 | 1016 | 1380 | 1162 | 1552 | 1307 | 1725 | 1452 |
| 63 | 16 | 31,1 | 28,0 | 1923 | 1725 | 2196 | 1971 | 2471 | 2218 | 2746 | 2464 |
| 80 | 20 | 50,3 | 45,3 | 3098 | 2797 | 3541 | 3196 | 3984 | 3596 | 4426 | 3995 |
| 100 | 25 | 78,5 | 73,6 | 4836 | 4534 | 5526 | 5181 | 6217 | 5829 | 6908 | 6477 |

● = cylinder in Plus direction ○ = cylinder in Minus direction