

# CYLINDER SERIES ISO 6431 VDMA, Ø 160-200 mm

Cylinders made to ISO 6431 available in various versions and with a wide range of accessories:

- Configuration with or without magnet
- Double-acting – single- or through-rod
- NBR gaskets
- Special configurations on request

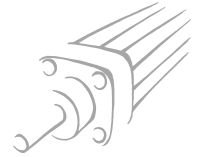


## TECHNICAL DATA

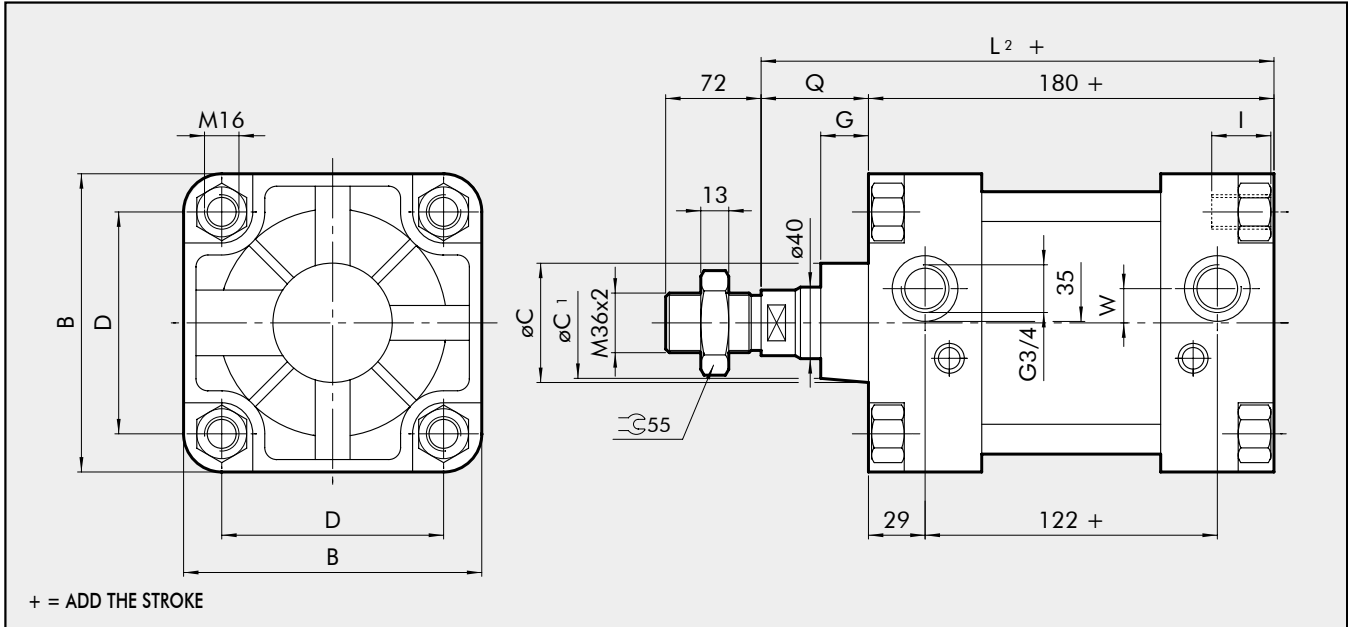
|  |    |  |     |     |     |      |      |      |      |      |      |      |
|--|----|--|-----|-----|-----|------|------|------|------|------|------|------|
| Operating pressure   | P  | max 10 bar (1 MPa)   |     |     |     |      |      |      |      |      |      |      |
| Temperature range  | Te | -10°C to +70°C   |     |     |     |      |      |      |      |      |      |      |
| Fluid temperature  | Tf | -10°C to +70°C   |     |     |     |      |      |      |      |      |      |      |
| Design   |    | Profile with internal tie rods                                       |     |     |     |      |      |      |      |      |      |      |
| Materials  |    | Heads: die cast aluminium  |     |     |     |      |      |      |      |      |      |      |
|  |    | Piston rod: thick chromed steel                                      |     |     |     |      |      |      |      |      |      |      |
|  |    | Jacket: aluminium  |     |     |     |      |      |      |      |      |      |      |
|  |    | Piston: aluminium with PTFE guide belt                               |     |     |     |      |      |      |      |      |      |      |
|  |    | Gaskets: NBR   |     |     |     |      |      |      |      |      |      |      |
| Forces generated (*)   |    | 1  | 2   | 3   | 4   | 5    | 6    | 7    | 8    | 9    | 10   |      |
|  | KN | 160  | 1.8 | 3.6 | 5.4 | 7.2  | 9.0  | 10.8 | 12.6 | 14.4 | 16.2 | 18.0 |
|  |    | 200  | 2.8 | 5.6 | 8.4 | 11.3 | 14.1 | 16.9 | 19.7 | 22.6 | 25.2 | 28.2 |
| Standard strokes   | mm | 25-50-75-80-100-125-150-200-250-300-350-400-500-600-700-800-900-1000 |     |     |     |      |      |      |      |      |      |      |
| *NOTE. The values shown refer to the piston thrust surface. The drafting surface values are in the same ratio as the two surfaces. |    |  |     |     |     |      |      |      |      |      |      |      |

## KEY TO CODES

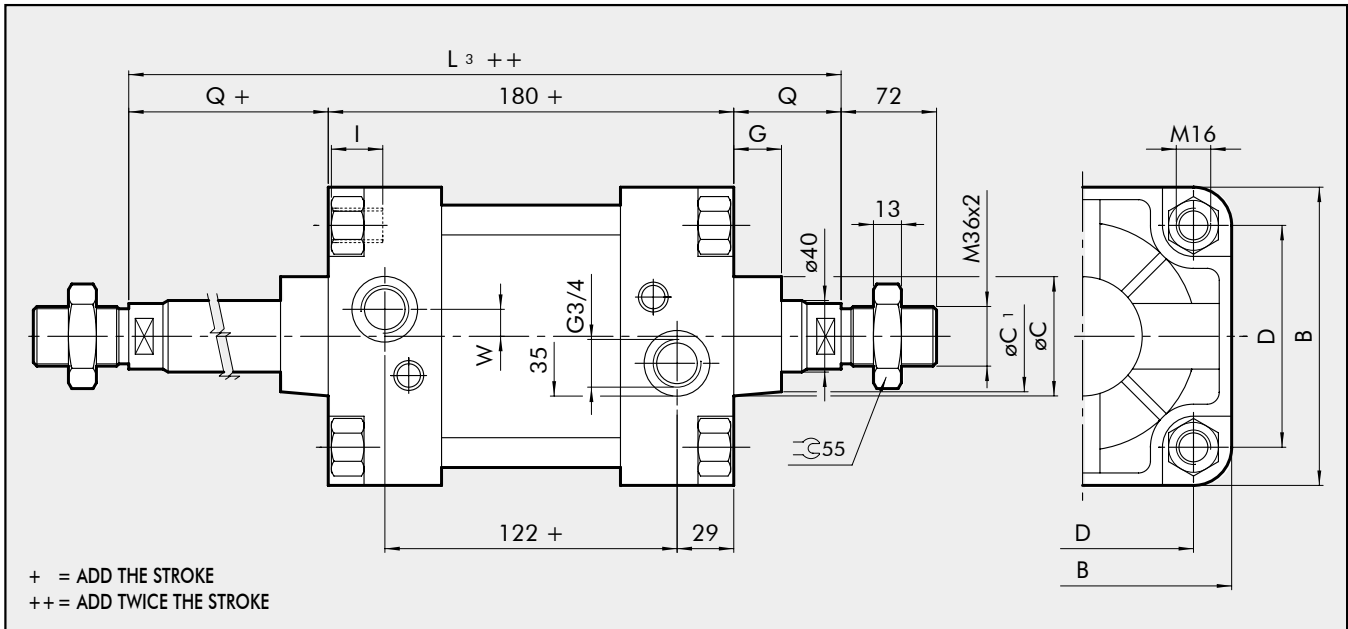
|     |      |  |   |   |   |          |   |                |   |   |   |
|-----|------|--|---|---|---|----------|---|----------------|---|---|---|
| CYL | W    | 1  | 2 | 1 | 1 | 6        | 0 | 0              | 0 | 5 | 0 |
|     |      | TYPE   |   |   |   | DIAMETER |   | STROKE         |   |   |   |
|     | W120 | Double-acting, cushioned, non magnetic         |   |   |   | 160      |   | 0025 ÷ 2800 mm |   |   |   |
|     | W121 | Double-acting cylinder, cushioned              |   |   |   | 200      |   |                |   |   |   |
|     | W122 | Double-acting cylinder, cushioned, through-rod |   |   |   |          |   |                |   |   |   |
|     | W124 | Double-acting cylinder, non-cushioned          |   |   |   |          |   |                |   |   |   |



**DIMENSIONS OF STANDARD VERSION - W120 - W121 - W124**



**DIMENSIONS OF THROUGH-ROD VERSION - W122**



**VERSION W120 - W121 - W124 (STANDARD); W122 (THROUGH-ROD)**

| Ø   | B   | Ø C | Ø C1 | D   | G  | I  | L <sub>2</sub> | L <sub>3</sub> | Q  | W    |
|-----|-----|-----|------|-----|----|----|----------------|----------------|----|------|
| 160 | 180 | 65  | 65   | 140 | 50 | 20 | 259            | 338            | 79 | 22.5 |
| 200 | 220 | 75  | 62   | 175 | 60 | 20 | 275            | 370            | 95 | 22.5 |