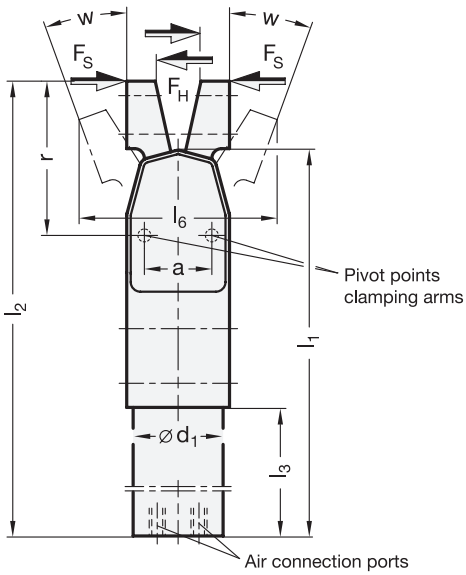
# Power Clamps

Steel, Pneumatic, for Centered Clamping



**2 Type**

**BC** 2 clamping arms vertical for centred clamping

**1**

| Size (Piston-Ø) | Max. clamping moment at 6 bar in Nm | $F_S$ Clampin force at r at 6 bar in N | $F_H$ Holding capacity at r at 6 bar in N | a | b −0,2 | $d_1$ h8 | $d_2$ | $d_3$ H8 | $d_4$ | $d_5$ | $l_1$ −0,5 | $l_2$ −0,5 | $l_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 60 | 630 | 1150 | 21 | 10 | 28 | M 5 | 7 | 4,1 | M 5 | 138 | 160 | 57,5 |
| 32 | 150 | 1110 | 1520 | 31 | 12 | 40 | M 6 | 9 | 5 | G ⅛ | 206 | 237 | 91 |
| 40 | 300 | 1800 | 2000 | 37 | 16 | 50 | M 8 | 11 | 6,8 | G ⅛ | 244 | 282 | 104 |

| Size (Piston-Ø) | $l_4$ | $l_5$ | $l_6$ ≈ | $m_1$ ±0,01 | $m_2$ | $m_3$ ±0,01 | $m_4$ | $m_5$ ±0,01 | $m_6$ | r | $s_1$ | $s_2$ | t | w Angle in ° |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 24,5 | 5 | 89 | 12 | 7,5 | 17 | - | 22 | 13 | 48 | 32 | 38 | 13 | 66° |
| 32 | 31 | 6 | 72,5 | 18 | 10 | 25 | 51 | 30 | 22 | 67,5 | 42 | 42 | 15 | 14° |
| 40 | 38 | 7,5 | 89,5 | 22 | 13 | 30 | 62 | 37 | 25 | 82,5 | 52 | 52 | 18 | 14° |

## Specification

**3**

**Steel** C45
- Chemically nickel plated **NC**
- Max. pressure 10 bar

RoHS

## On request

- With anti-stick coating for protection against welding spray and corrosion

The clamping forces $F_S$ of power clamps GN 866 are directed inwards at the clamping arms.
The maximum clamping moment of the power clamps GN 866 is reached once the clamping arm is at the end of its stroke. For this reason the working stroke should be completed as closely as possible to the stroke end.

| Technical Information | Page |
|---|---|
| Dead Point Mechanism Operating Principle / Overview of Types | QVX |
| Assembly Instruction | QVX |
| ISO Fundamental Tolerances | QVX |

**Accessory**

| | |
|---|---|
| **GN 870** Centering Guide Bushings | QVX |
| Proximity Switch (for Querying the End Positions) | QVX ff. |
| Holders for Clamping Bolts (Other Accessories) | QVX ff. |

**Security Information**

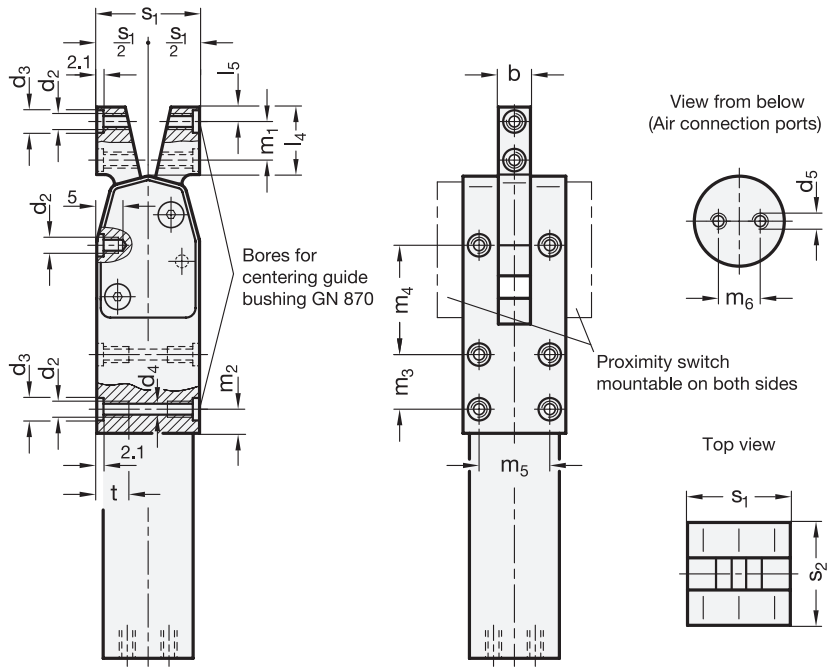
The information in the operating instructions must be observed during installation, initial operation, and use. These are enclosed with the product and are provided digitally at ganternorm.com.

How to order

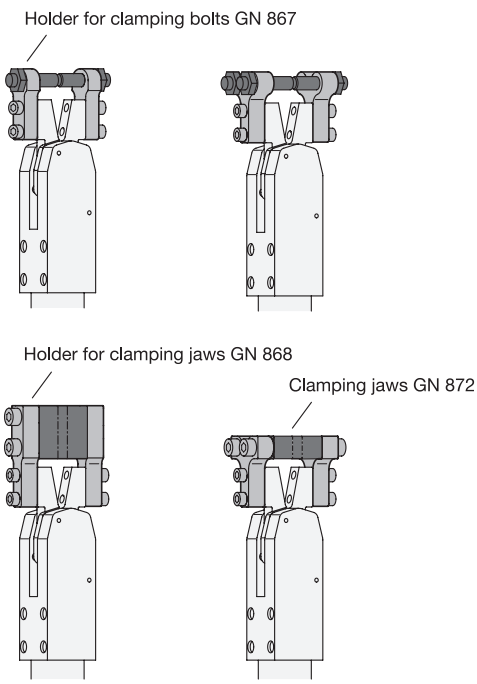
**1 2 3**

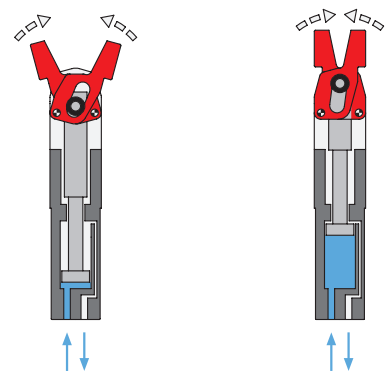
**GN 866-20-BC-NC**

| | |
|---|---|
| 1 | Size |
| 2 | Type |
| 3 | Finish |




## Installation Examples




## Operating Principle