



### Advantages / Benefits

- ▶ Simple installation, convertible or retrofittable
- ▶ Self-adjusting trip cam for "closed" position
- ▶ Cable access 360° rotatable
- ▶ LEDs provide local operational status and position indication
- ▶ Compact IP65 enclosure

### Design

Positions are electrically signalized according to switch type:

- open,
- closed or
- open and closed.

LEDs provide optical position indication (except for Namur Ex-version).

Mechanical or inductive switches are housed in a compact splash-proof enclosure.

The position indicator can be rotated 360° and is easily fitted to the valve. Trip cams do not require adjustment. The unit only needs to be screwed on and connected to be ready for operation.

- Easily accessible elements and terminals
- No special tools required for installation and disassembly
- Mechanic switches with gold-silver contacts
- Inductive switches in 2- and 3-wire technology
- Cable access by PG-cable gland or plug connector
- Tag plate for system inscription

### Applications

Pneumatically operated angle seat valves Type 2000 and 2001

Pneumatically operated diaphragm valves Type 2030 and 2031

## Technical Data

### Operating Data

|                     |                                                                         |                                                                  |
|---------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|
| LED                 | green                                                                   | valve open                                                       |
|                     | red                                                                     | valve closed                                                     |
|                     | yellow                                                                  | supply voltage "on"<br>(protected against<br>incorrect polarity) |
| Ambient temperature | -20 to +60 °C                                                           |                                                                  |
| Rating              | IP 65<br>to DIN 40 050                                                  |                                                                  |
| Enclosure material  | Polyamide with<br>polycarbonate cover.<br>(Polysulfon cover on request) |                                                                  |

## Limit Switch

### Mechanical Limit Switch (silver or gold contacts)

#### Electrical specification

| at voltage | max. inductive load | max. load resistance |
|------------|---------------------|----------------------|
| 125 V ≈    | 8 A                 | 8 A                  |
| 250 V ≈    | 8 A                 | 8 A                  |
| 24 V =     | 5 A                 | 5 A                  |
| 30 V =     | 2 A                 | 5 A                  |
| 50 V =     | 0,7 A               | 1 A                  |
| 74 V =     | 0,25 A              | 0,6 A                |
| 125 V =    | 0,03 A              | 0,4 A                |
| 250 V =    | 0,02 A              | 0,25 A               |

All switches have changeover function.

### Inductive Limit Switch in 2-wire Technology

|                         |               |
|-------------------------|---------------|
| Nominal voltage range   | 10 to 30 V DC |
| Acceptable current load | ≤ 100 mA      |
| Current consumption     | ≤ 2 mA        |

### Inductive Limit Switch in 3-wire Technology

|                       |               |
|-----------------------|---------------|
| Nominal voltage range | 10 to 30 V DC |
| Current load          | ≤ 200 mA      |
| Output resistance     | 4,7 kΩ        |
| Current consumption   | ≤ 25 mA       |
| Contact versions      | PNP, NPN      |

### Inductive Limit Switch to DIN 19 234 (NAMUR) Ex i

|                     |                 |
|---------------------|-----------------|
| Nominal voltage     | 8 V DC          |
| Current consumption | damped ≤ 1 mA   |
|                     | undamped ≥ 3 mA |

Isolating barrier must be used.

## Installation/Accessories

|                       |                                                                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation          | as required                                                                                                                                                                        |
| Electrical connection | <ul style="list-style-type: none"> <li>PG 11 cable gland,</li> <li>internal:</li> <li>screw terminals on PCB,</li> <li>connector cross section up to 1,5 mm<sup>2</sup></li> </ul> |

## Ordering Chart

### With Mechanical Limit Switches

| Actuator   | Feedback of valve position (ch/over contact) | Item-No.          |                 |                  |                 |
|------------|----------------------------------------------|-------------------|-----------------|------------------|-----------------|
|            |                                              | 110V...250V AC/DC | 12V...48V AC/DC | 48V...110V AC/DC | 12V...30V AC/DC |
| 50-80 mm   | OPEN                                         | 005415K           | 007462U         | 420 770 J        | 420 476 C       |
|            | CLOSED                                       | 005409E           | 007461T         | 420 771 F        | 420 477 D       |
|            | OPEN/CLOSED                                  | 005416L           | 007463V         | 420 772 G        | 420 478 N       |
| 100-125 mm | OPEN                                         | 007459H           | 007465X         | 420 773 H        | 420 479 P       |
|            | CLOSED                                       | 007458G           | 007464W         | 420 774 A        | 420 480 D       |
|            | OPEN/CLOSED                                  | 007460E           | 007466Y         | 420 775 B        | 420 481 S       |

### With Inductive Limit Switches:

| Actuator   | Feedback of valve position (ch/over contact) | Item-No.           |                        |                        |                         |
|------------|----------------------------------------------|--------------------|------------------------|------------------------|-------------------------|
|            |                                              | 10...30 VDC 2-wire | 10...30 VDC 3-wire PNP | 10...30 VDC 3-wire NPN | 8 VDC, NAMUR Exi 2-wire |
| 50-80 mm   | OPEN                                         | 420 788 H          | 005 434 N              | 420 782 T              | 007 471 V               |
|            | CLOSED                                       | 420 789 A          | 005 422 J              | 420 783 U              | 007 470 G               |
|            | OPEN/CLOSED                                  | 420 790 F          | 005 461 Z              | 420 784 V              | 007 472 W               |
| 100-125 mm | OPEN                                         | 420 791 U          | 007 468 A              | 420 785 W              | 007 474 Y               |
|            | CLOSED                                       | 420 792 V          | 007 467 Z              | 420 786 X              | 007 473 X               |
|            | OPEN/CLOSED                                  | 420 793 W          | 007 469 B              | 420 787 Y              | 007 475 Z               |

## Accessory

Specification tag

Item-No. 633 529 W

**Easy**  
to convert

Quick and easy conversion to other operating functions.

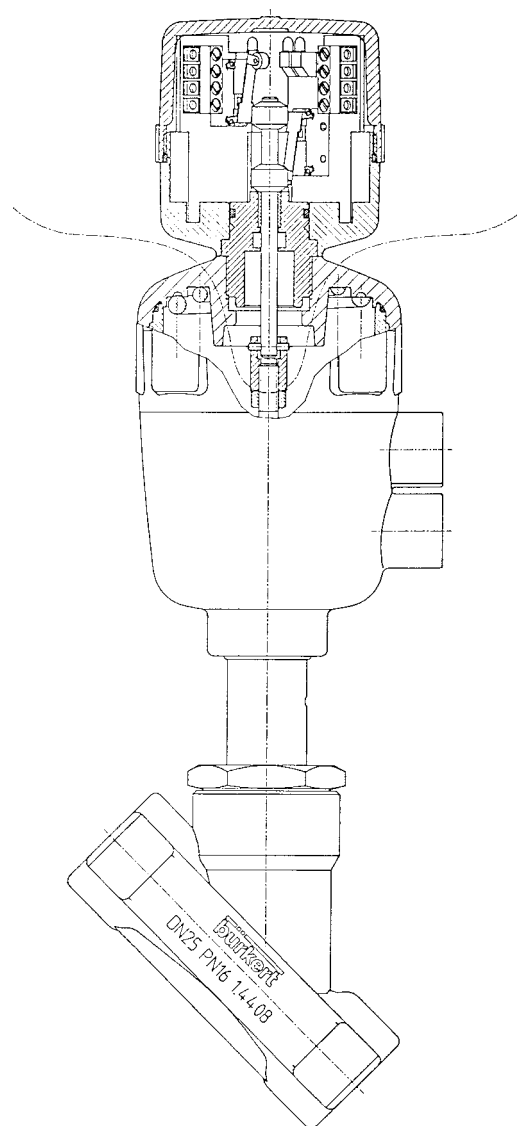
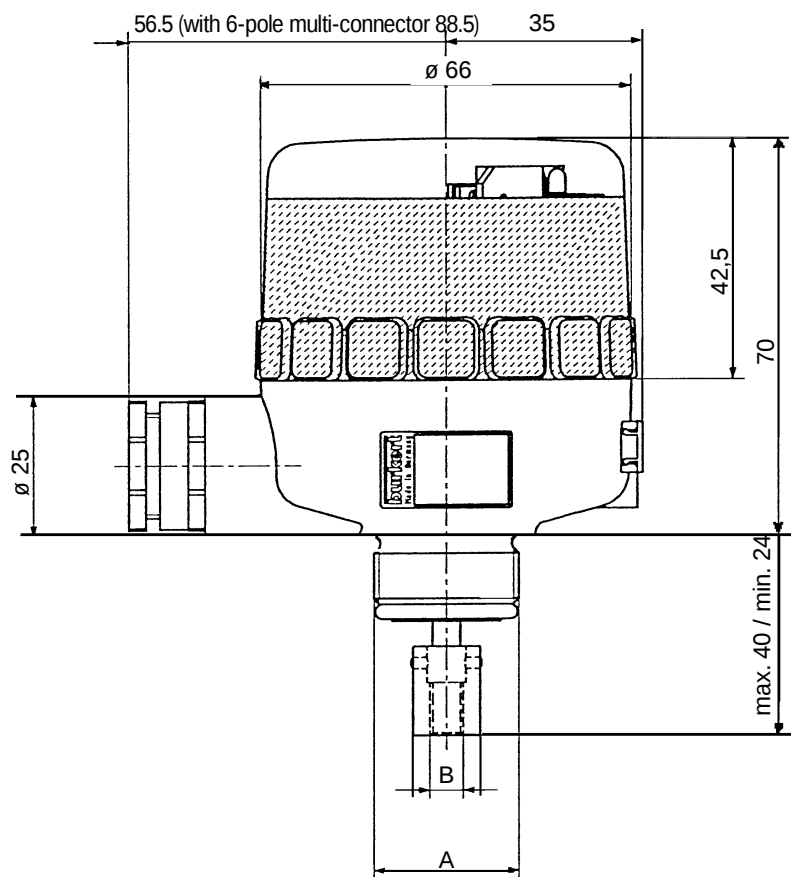


**Easy**  
to control

The electrical position feedback guarantees permanent process control.



Dimensions in mm



| Actuator diameter | A       | B   |
|-------------------|---------|-----|
| ø50, ø63, ø80     | M26x1,5 | M6  |
| ø100, ø125        | M36x2   | M10 |