

Process Valves Series 2000



Advantages / Benefits

- ▶ Simple installation
- ▶ Easy to retrofit
- ▶ Self-adjusting trip cams
- ▶ Can be rotated through 360°
- ▶ LEDs provide local operational status and position indication
- ▶ NEMA 4 (IP65)

Design

The position feedback assembly is available with one or two switches to indicate the position of the main valve.

LEDs provide optical position indication:

- open,
- closed or
- open and closed.

The switches, either mechanical or inductive in design, are housed in a compact splash-proof enclosure.

The position indicator can be rotated 360° and is easily fitted to the valve. The unit only needs to be screwed on and wired to be ready for operation, no adjustment of trip cams is required.

- Easily accessible internal components and terminals
- No special tools required for installation or disassembly
- Mechanical switches available with gold or silver contacts
- Inductive switches in 2- and 3-wire technology
- Cable access by PG-cable gland
- Name plate for system identification

Applications

Pneumatically operated globe valves Type 2000 and 2012.

Pneumatically operated diaphragm valves Type 2030 and 2031

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Fluid Control Systems

Technical Data

Operating Data

LED	Green – Valve open Red – Valve closed Yellow – Supply voltage “on” (protected against incorrect polarity)
Ambient temperature	-40°F to 140°F
Rating	NEMA 4 (IP 65) to DIN 40 050
Enclosure material	Polyamide with polycarbonate cover. (Polysulfon cover on request)

Limit Switch

Mechanical Limit Switch (silver or gold contacts)

Electrical specification

At Voltage	Maximum Inductive Load	Maximum Load Resistance
125 VAC	8 A	8 A
250 VAC	8 A	8 A
24 VDC	5 A	5 A
30 VDC	2 A	5 A
50 VDC	0.7 A	1 A
74 VDC	0.25 A	0.6 A
125 VDC	0.03 A	0.4 A
250 VDC	0.02 A	0.25 A

All switches can be wired for opened or closed operation.

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 in 2-wire Technology
DIN 19 234 (NAMUR) EExi**

Nominal voltage	8 VDC
Consumption	damped 1 mA undamped < 3 mA
Isolation Barrier Required	

Installation/Accessories

Installation	As required
Electrical connection	<ul style="list-style-type: none"> • PG 11 cable gland, internal: • screw terminals on PCB, • 18 AWG

Ordering Chart

With Mechanical Limit Switches

Actuator Size	Indicated Valve Position	Item No.			
		110V to 250V AC/DC	12V to 48V AC/DC	48V to 110V AC/DC	12V to 30V AC/DC
D, E, F	OPEN	005 415 K	007 462U	420 770 J	420 476 C
	CLOSED	005 409 E	007 461 T	420 771 F	420 477 D
	OPEN/CLOSED	005 416 L	007 463 V	420 772 G	420 478 N
G, H	OPEN	007 459 H	007 465 X	420 773 H	420 479 P
	CLOSED	007 458 G	007 464 W	420 774 A	420 480 D
	OPEN/CLOSED	007 460 E	007 466 Y	420 775 B	420 481 S

With Inductive Limit Switches:

Actuator Size	Indicated Valve Position	Item No.			
		10 to 30 VDC 2-wire	10 to 30 VDC 3-wire PNP	10 to 30 VDC 3-wire NPN	NAMUR EExi 8 VDC
D, E, F	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
G, H	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

Specification Tag	Item No.	633 529 W
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Easy
to convert

Quick and easy conversion to other operating functions.

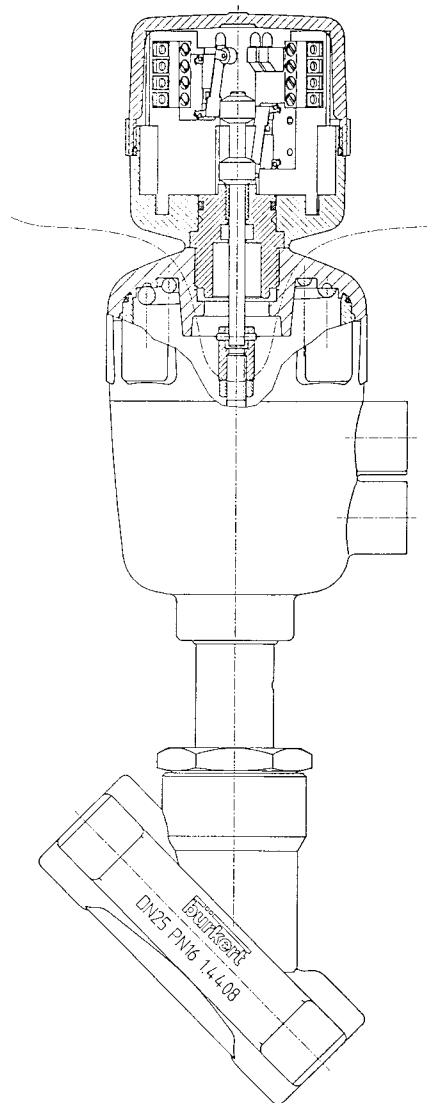
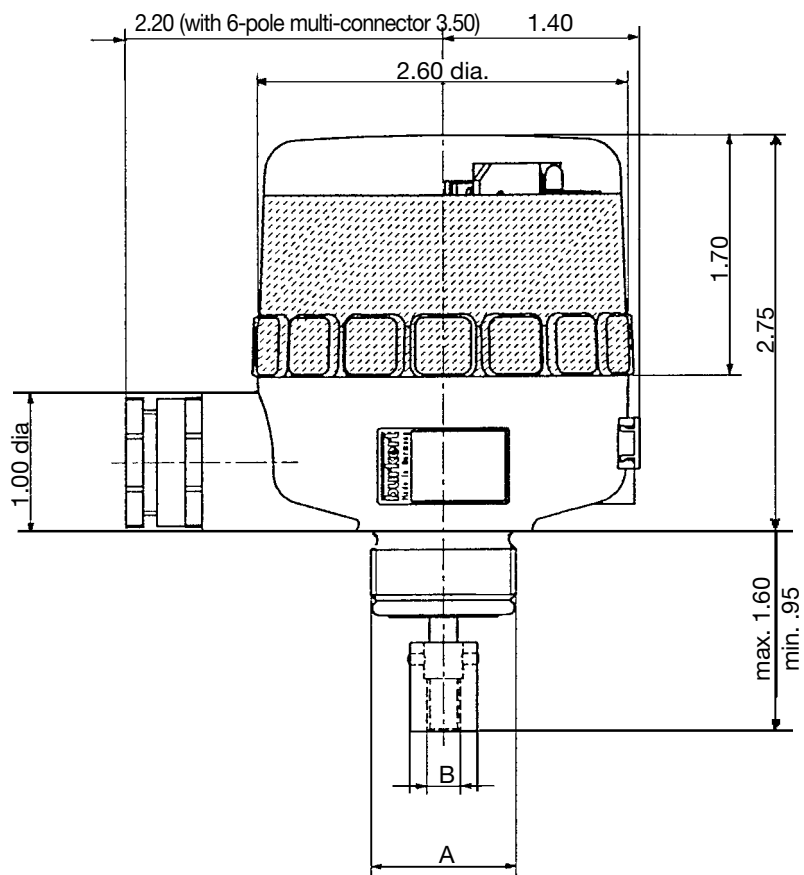


Easy
to control

The electrical position feedback insures accurate process control.



Dimensions [inch]



Actuator size	A	B
D, E, F	M26x1.5	M6
G, H	M36x2	M10