

Description

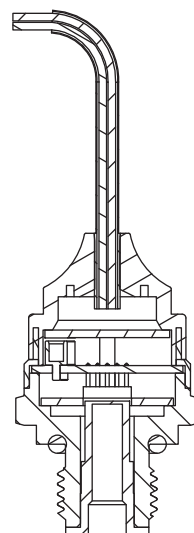
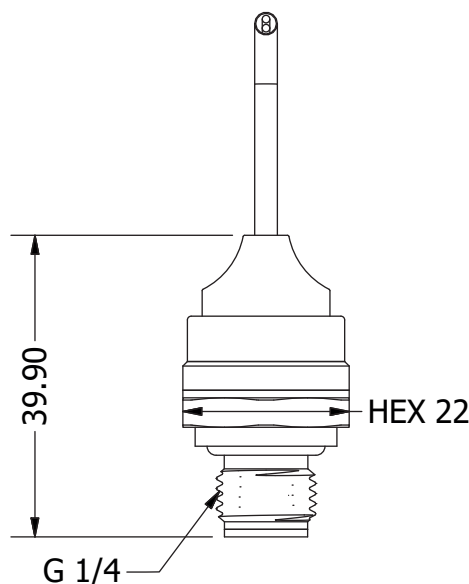
The ND-45 ensures long-term minimization of errors even after millions of full-scale overpressure cycles, keeping the electronic set point virtually drift-free. Ceramic materials in the sensing element and its mounting offer excellent resistance to most liquids and chemicals. A stainless steel housing increases durability, while media compatibility is ensured through welded sealing. The metal sensing element includes an integrated, solid-state custom hybrid signal conditioner. Its digital interface allows easy PC-controlled calibration by programming coefficients into the on-chip EEPROM, without the added cost of external trimming or laser adjustment.

Main Characteristics

- -1 to 500bar
- Dry/Wet Material
- Superior Long term Stability
- Temperature Compensated
- Linear amplified Output
- Excellent Repeatability & Hysteresis
- EMI/RFI Protection

Electrical connection :

Power Supply	12 ~ 36VDC	8 ~ 30VDC
Output	0,5 ~ 4,5V / 0 ~ 5V 1 ~ 5V / 0 ~ 10V	4 ~ 20mA
Red	VDC	Power (+)
Green	OUT	NC
Black	GND	Power (-)



Technical features

Accuracy: $\pm 0,5\%$ F.S. [Typical 25 °C]
Hysteresis, Repeatability: $\pm 0,1\%$ F.S. $\pm 0,15\%$ F.S. [MAX]
Working temperature: -40 °C ... +125 °C
Temperature compensation: -20 °C ... +80 °C
Total error band: $\pm 1,5\%$ F.S. [Typical] $\pm 1,5\%$ F.S. [MAX]
Response time: 2mS
Work cycles: 1 millions cycles
Vibrations: 200m/s² [10 ~ 2000MHz]

Pressure range

Relative pressure: -1 ~ 10...500 bar
Overpressure: 2 times the full scale value
Burst pressure: 10 times the full scale value

Electrical features

Output: 4 ~ 20mA 0,5~4,5V / 0~5V
1~5V / 0~10V
Power supply: 8 ~ 30VDC 5V, 8 ~ 30VDC
Insulation resistance: > 100MΩ
Tension resistance: 500 V AC (1 minute between case and all terminals tied)
Circuit protection: Reverse polarity protected

Construction features

Body material: AISI 316 / AISI 303
Wetted port material: AISI 630
Connection: Cable Type
Waterproof IP rating: IP67
Electric connection material: PA66 + GF30 gold plated Pin

Options

- Process connections available on request
- Pressure ranges available on request
- Different connection available

Applications

- Process control
- Pneumatic and hydraulic Compressors
- Agricultural technology
- Environmental control system
- Air conditioning
- Refrigeration (HVACR)

Ordering information

Pressure range / Process connection / Output signal / Electrical connection / Options

The specifications and dimensions shown here represent the state of development at the time of going to press. Changes may occur and specifications may be replaced by others without prior notice.



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