

Resato

HIGH PRESSURE TECHNOLOGY



PRESSURE TRANSMITTER TYPE S

Low operation costs
Long-term stability
High accuracy

DESCRIPTION

Resato type S pressure transmitters are thin-film strain gauge transmitters, specially designed for high-pressure applications.

Compact design and robust construction make these instruments universally suitable for all kinds of high-pressure applications. The well-proven technological design guarantees that the type S pressure transmitters provide high accuracy and long-term stability, two very important features for high-pressure applications.

All wetted parts are made of materials specially suited for the highest pressure ranges. The rugged case is made of stainless steel and complies with ingress protection IP65.

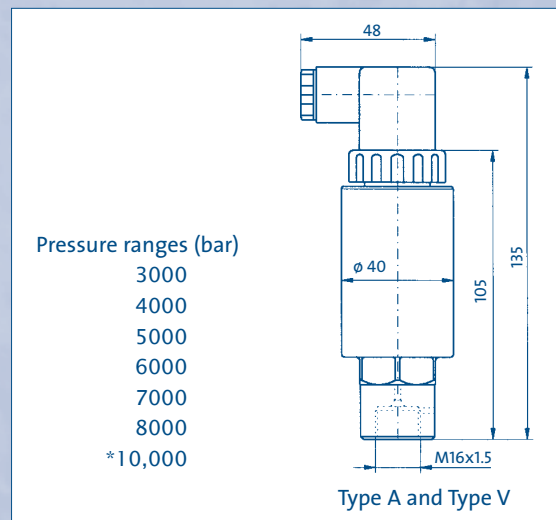
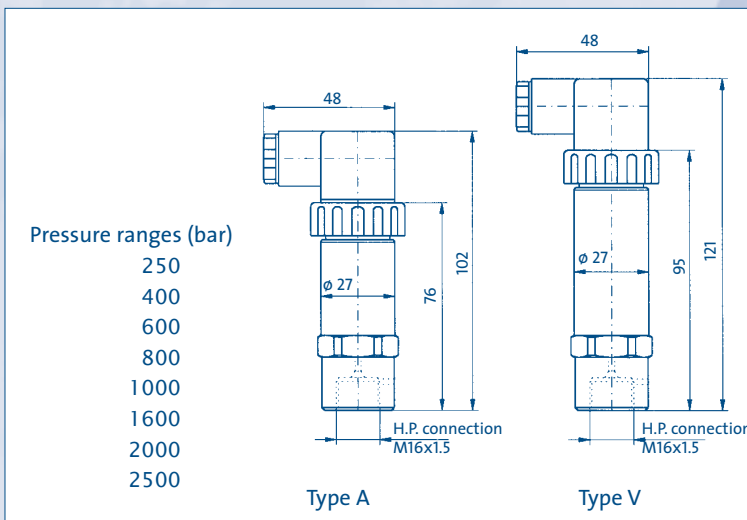
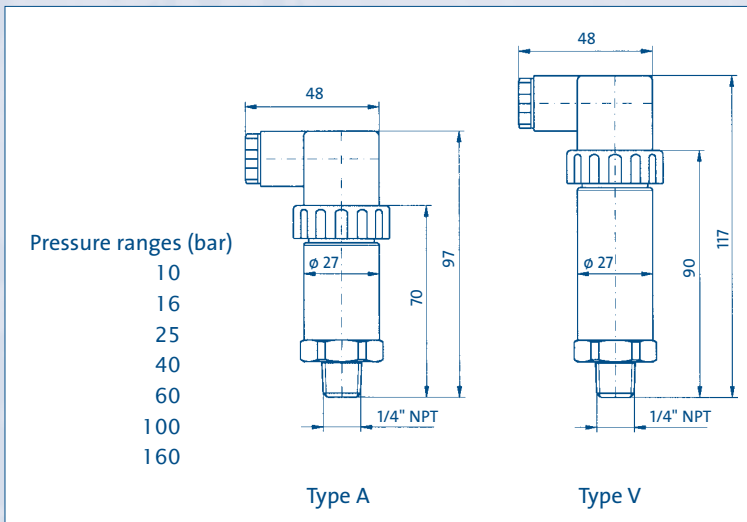
All pressure transmitters for pressures of over 160 bar have high-pressure connections complete with bleed hole.

The pressure transmitter can be connected to a power supply with a non-stabilized voltage of 10...30V. The pressure transmitter is standard available with an output signal of 0-10V.

An output of 4-20mA is available as an option.

Applications:

- Pressure test systems
- Autofrettage systems
- Impulse testing systems
- Internal high-pressure forming
- Water-jet Cutting systems
- High-pressure food conservation systems



* Provided with flat cone connection

SPECIFICATIONS		TYPE S-xxx-x-W
Pressure ranges	Bar	10, 16, 25, 40, 60, 100, 160, 250, 400, 600, 800, 1000, 1600, 2000, 2500, 3000, 4000, 5000, 6000, 7000, 8000 and 10,000
Overpressure safety Pressure reference		15 to 100% depending on pressure range relative pressure
Pressure connection		10-160 bar: 1/4 NPT-Male connection 250 bar and higher: Resato connection type F1 (M16x1.5 high-pressure connection)
Accuracy Hysteresis Repeatability	% of span % of span % of span % of span	≤ 0.25 Best Fit Straight Line ≤ 0.5 Limit point calibration ≤ 0.2 ≤ 0.05
Operating temperature Compensated temperature	°C °C	-20 / + 80 0 / + 80
Effect on zero mean TC of zero mean TC of span	% of span/10K % of span/10K	≤ 0.2 ≤ 0.2
Power supply Output signal	DC V	10 to 30 0-10V, 3-wire-system code V (standard) 4-20mA, 2-wire system code A (option)
Electrical connection		4-pin L-plug according to DIN43650
Cable length	metre	3
Degree of protection		IP65
Material: Wetted parts Case		Stainless steel 1.4534 and 1.4571 Stainless steel 1.4571
CE conformity		Interference emission according to EN50 081-1 and EN 50 081-2 Interference immunity according to EN50 082-2; declaration of conformity available on request

ORDERING EXAMPLES:

S - 40 - V - W
 ↓ ↓
 Pressure range Output signal
 0-4000 bar 0-10V

S - 6 - A - W
 ↓ ↓
 Pressure range Output signal
 0-600 bar 4-20mA

EXAMPLES OF RESATO HIGH-PRESSURE COMPONENTS UP TO 14,000 BAR

Air-driven pumps and gas boosters
Hydraulically-driven pumps and gas boosters
Fittings
General-purpose valves
Check valves
Swivels
Hoses
Tubing
Pressure transducers
Rupture-disc safety devices
Quick connectors

COMPANY PROFILE

Since 1985, Resato International B.V. has specialized in the design and manufacture of high-pressure components and systems for pressures of up to 14,000 bar (200,000 psi).

Our modern factory in Roden, The Netherlands, comprises engineering and R&D departments and production facilities. Resato provides a wide range of components and turnkey pressure test and high-pressure systems. Both gases and liquids are used as high-pressure mediums.

EXAMPLES OF RESATO HIGH-PRESSURE EQUIPMENT AND SYSTEMS

Portable pressure-test systems
Test equipment for hoses (safety) valves, fittings etc.
Computer-controlled high-pressure test equipment
Autofrettage systems
Autoclaves
Custom-made test equipment
Water-jet cutting systems
High-pressure food preservation systems
PC data acquisition and recording systems

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Please note that general data and specifications given in this brochure are subject to change without notice. Feel free to contact our sales department if you need more definite information.