Pressure Transmitters

FEATURES

- Ranges to 20,000 psi (0–14,000bar)
- <0.25% accuracy, combined error
- 4–20 mA two-wire output
- ATEX I.S. certification
- Duplex stainless steel construction
- NACE MR-01-75 Rev03 Sour Gas rated

APPLICATIONS

- Surface datalogging
- B.O.P. control systems
- Wellhead monitoring
- Mud logging

DESCRIPTION

General purpose 9420 Series pressure transmitters share fused-ceramic diaphragm and fixed-range 4–20 mA two-wire output amplifier technology. Housed in a thick walled casing of the highest specification material, the 9420 Series is ideally suited to rugged and corrosive service in an oil field environment; Sour Service is standard.

9420 transmitters are available with a wide variety of connector options to suit your system requirements. Each unit carries a two-year warranty.

ORDERING INFORMATION

X 9420 – XXX – XXXXP – XXX

Pressure Ref.
P = Sealed Gage PSIS
V = Vented Gage PSIG

Series 9000

Output (4–20 mA)

Pressure Port
3 = AE F250C (1/4" High Pressure)
5 = 1/4" NPT fem and 1/2" NPT male (stock type)
6 = AE 562, 9/16" High Pressure API type III
7 = G1/4 ISO228/1 (1/4" BSPP port)

Electrical Termination
3 = Glenair GC379 Series Plug / Socket
4 = 2 pin Header through M20 Male
5 = High Pressure Feed Through
6 = Custom, e.g., ROTA Plug / Socket

Cable / Accessories
0 = None
1 = Terminal Head, K8000 Type, M20 Entry

Pressure Range (Fixed—non adjustable)

0035 = 0–35 bar	or, with "P" suffix, = 0–500 psi
0070 = 0–70 bar	or, with "P" suffix, = 0–1,000 psi
0100 = 0–100 bar	or, with "P" suffix, = 0–1,500 psi
0200 = 0–200 bar	or, with "P" suffix, = 0–3,000 psi
0350 = 0–350 bar	or, with "P" suffix, = 0–5,000 psi
0700 = 0–700 bar	or, with "P" suffix, = 0–10,000 psi
1000 = 0–1,000 bar	or, with "P" suffix, = 0–15,000 psi

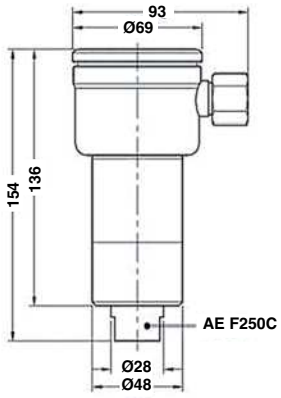
Special ranges on request.

Special Option Code
e.g., materials, etc.

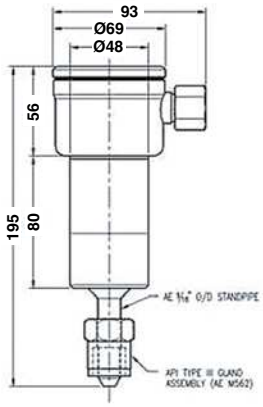
BLH NOBEL
A VPG Brand

Pressure Transmitters

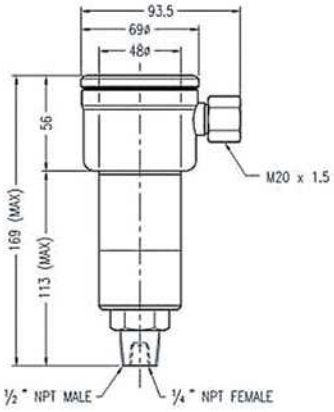
OUTLINE DIMENSIONS



9420-341-XXX



9420-641-XXX



9420-541-XXX

SPECIFICATIONS

PARAMETER	VALUE
Ranges	0–500 psi thru 0–20,000 psi (0–35 bar thru 0–1,400 bar)
PERFORMANCE	
Accuracy*	<0.25% span <0.30% span for 1,400 bar
Stability	<0.1% span per year
Rise time to full scale	<2 ms
Temperature effects on zero balance	±0.008% span/°C
Temperature effects on rated output	±0.008% span/°C
Temperature range	Compensated: –10°C to +90°C; storage: –30°C to +100°C
ELECTRICAL	
Output	4–20 mA, two wire
Full scale output (FSO)	20 mA ±0.16 mA
Zero pressure output	4 mA ±0.16 mA
Supply voltage	12–28 VDC
Loop resistance	100 Ω–900 Ω
Insulation resistance	>500 MΩ @ 500 V_{RMS}

PARAMETER	VALUE
MECHANICAL	
Safe overpressure	150% range
Minimum burst pressure	200% range (20,000 psi)
Wetted parts material	Al_2O_3 UNS S31803 Duplex Stainless Steel
MOUNTING	
Not attitude conscious	Via pressure port on 5XX, 6XX process connections, or flanges and hubs.
ENVIRONMENTAL	
Protection	IP68 BS5490: 1977, IEC 529: 1976
RFI / EMC immunity	Tested to IEC 801-3 Parts 2, 3, 4 and 6 EN 50082-2
Intrinsic safety certification	EXia IIc T4 Sira 02ATEX2386X
MEDIA COMPLIANCE—NACE MR-01-75 Rev03 Sour Gas rated	
SHOCK / VIBRATION—IEC 68 Test Ea 100 g / 6 ms, 3 axes; Test Fc 10–800 Hz, 5 g, 3 axes	

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.

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