

NOTE: Hand pump and pressure switch are panel mounted. Panel is not shown. Instrument mounting varies depending on the option selected.

## Design Features/Benefits

These general industry reservoirs provide buffer/barrier fluid to a dual seal arrangement. Key features:

**GR-1/1C** 

RESERVOIRS

- 316/L stainless steel pressure reservoir without internal cooling coil (GR-1) or with internal cooling coil (GR-1C)
- Design pressure: 16.3 bar g (236 psig), @100°C (212°F)
- Minimum design temperature: -10°C (14°F)
- Sight level gauge
- 1/2" NPT reservoir terminations
- Reservoir Capacity: 8 litre (2.2 US gallons) nominal
- CE mark in accordance with Pressure Equipment Directive (PED) 97/23/CE provided to countries within the European Community
- · Welding in accordance with ASME VIII (welders gualified to ASME IX)
- Many options available including:
  - Nitrogen isolation valve (for pressurized seals)
  - Orifice union (for unpressurized seals)

## **Option Variants**

- Pressure gauge ranges
- · Compatibility with variable barrier/buffer fluid types
- · Electrical instruments suitable for:
  - Eexi circuits or Eexd (ATEX)
  - Explosion proof (UL/CSA)

## **Materials of Construction**

- Reservoir: 316/L stainless steel
- Level gauge: aluminium body, buna O-ring
- Tube and fittings: 316/L stainless steel
- Cooling coil: 316/L stainless steel (GR-1C only)

# **Applications**

- Automotive
- Chemical processing
- Power generation
- Pharmaceutical
- Pulp and paper
- Water treatment

## Option Codes

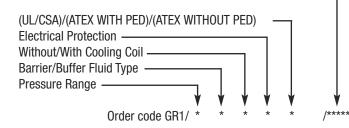
#### PRESSURE RANGE Working Pressure **Pressure Gauge Range Pressure Switch Range** Code 0-6 bar g (0-100 psig) 0-10 bar g (0-150 psig) 0-6 bar g (0-100 psig) А 6-16.3 bar g (100-236 psig) max 0-25 bar g (0-360 psig) 6-20 bar g (100-300 psig) В **BARRIER/BUFFER FLUID TYPE COOLING COIL** Code Code Mineral Oil - Max viscosity 20cst Μ Without Cooling Coil Ν Water - Water/Glycol & Ethylene/Glycol W With Cooling Coil С Barrier/Buffer Fluid to be specified Х ELECTRICAL ENVIRONMENT TYPE Electrical Protection Code Electrical Certification Code Explosion Proof – switches Eexd, circulating pump Eexe F UL/CSA U Eexi - for intrinsically safe circuits (ATEX only) ATEX WITH PED Α Not Applicable - no electrical equipment on system Ν ATEX WITHOUT PED S EQUIPMENT OPTIONS Level gauge and pressure gauge (with brass parts) included. For pressure gauge with stainless steel parts, select option \*\*\*32 Pressure/Temperature Gauge Instrument Assembly \*\*\*\*1 \*\*\*\*2 Hand Pump Refilling Unit \*\*\*\*4 Low Level Switch Safety Relief Valve - 11-25 bar g (165-300 psig) \*\*\*\*8 \*\*\*16 Circulation Pump (non stocked option) \*\*\*32 Pressure Gauge - Range follows pressure range selection \*\*\*64 Fin Tube Air Cooler (non stocked option)

GR-1/1C

RESERVOIRS

# Fin Tube Air Cooler (non stocked option) \*\*\*64 Support Stand (non stocked option) \*\*128 Nitrogen Isolating Valve (pressurized seals) \*\*256 Orifice Union (unpressurized seals) \*\*512 Pressure Switch \*1024 Quick Connector \*2048 Drain Valve \*4096 3in1 Wireless Pressure/Temperature/Level Device (non stocked option) \*8192

To specify equipment options add together each component code for the items to give a total figure. The total preceded by any spare spaces making up the 5 digits, should be inserted in the options section of the order code eg. /\*1168



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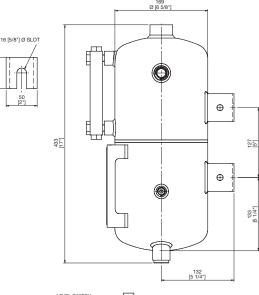
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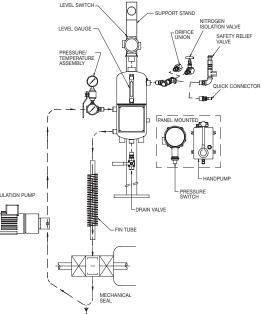
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# GR-1 Series Typical Arrangement

 $\ensuremath{\text{NOTE}}$  : Instrument mounting is indicative only and may vary depending on the options selected





### NOTES

1. Electrical connection is M20 (ATEX) or 3/4" NPT(UL/CSA)

- 2. Barrier/buffer fluid supply and return connections will be shipped with plastic plugs. All other connections will have metallic plugs
- 3. 3in1 initial installation requires installation of wireless network



## Technical Specification