

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 qualified 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

Ontion Codes

Technical Specification

PRESSURE RANGE						
Working Pressure	Pressure Gauge Range		Pres	Code		
0-6 bar g (0-100 psig)	0-10 bar g (0-150 psi	g) 0-6 bar g (0-100 psig)		A		
6-16.3 bar g (100-236 psig) max	0-25 bar g (0-360 psi	g)	6-20	bar g (100-300 psig)	В	
BARRIER/BUFFER FLUID TYPE				COOLING COIL		
		Co	de		Code	
Mineral Oil – Max viscosity 20cst		Ν	Λ	Without Cooling Coil	N	
Water – Water/Glycol & Ethylene/Glycol		V	V	With Cooling Coil	С	
Barrier/Buffer Fluid to be specified			(
ELECTRICAL ENVIRONMENT T	YPE					
Electrical Protection			de	Electrical Certification	Code	
Explosion Proof – switches Eexd, circulating pump Eexe			-	UL/CSA	U	
Eexi – for intrinsically safe circuits (ATEX only)				ATEX WITH PED	Α	
Not Applicable - no electrical equipment on system			١	ATEX WITHOUT PED	S	
EQUIPMENT OPTIONS						
Level gauge and pressure gaug stainless steel parts, select opti	e (with brass parts) inc on ***32	lude	ed. Fo	or pressure gauge with	l	
Pressure/Temperature Gauge Instrument Assembly			****1			
Hand Pump Refilling Unit			****2			
Low Level Switch			****4			
Safety Relief Valve – 11-25 bar g (165-300 psig)				****8		
Circulation Pump (non stocked option)				***16		
Pressure Gauge – Range follows pressure range selection				***32		
Fin Tube Air Cooler (non stocked option)				***64		
Support Stand (non stocked option)				**128		
Nitrogen Isolating Valve (pressu	**256					
Orifice Union (unpressurized seals)				**512		
Pressure Switch				*1024		
				-		

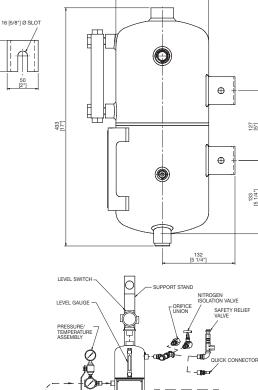
<u>GR-1/1C</u>

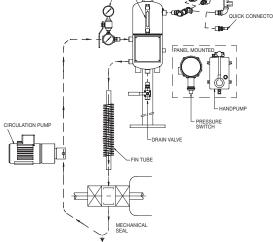
RESERVOIRS

GR-1 Series Typical Arrangement

NOTE: Instrument mounting is indicative only and may vary depending on the options selected

169 Ø [6 5/8"]





NOTES

*2048 *4096

*8192

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



Electrical Protection

Pressure Range -

Without/With Cooling Coil Barrier/Buffer Fluid Type ·

Quick Connector

3in1 Wireless Pressure/Temperature/Level Device (non stocked option)

(UL/CSA)/(ATEX WITH PED)/(ATEX WITHOUT PED)

Order code GR1/

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

Drain Valve

See Note 3

North America			Middle East & Africa	Asia Pacific	
United States of America			United Arab Emirates	Singapore	
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