

GR-3/3C

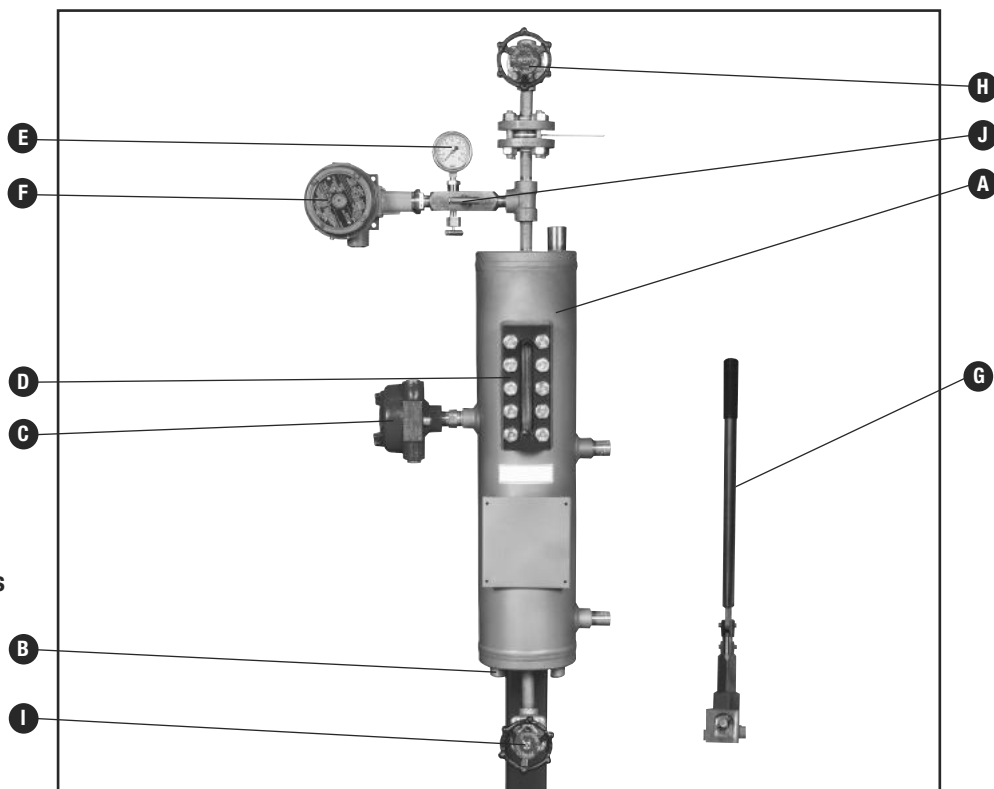
RESERVOIRS

Technical Specification

- A – Reservoir
- B – Internal Cooling Coil (GR-3C)
- C – Level Switch
- D – Weld Pad
- E – Pressure Gauge
- F – Pressure Switch
- G – Hand Pump (supplied loose)
- H – Vent Valve
- I – Drain Valve
- J – Block and Bleed Valve

Non Stocked Options

- Fin Tube Air Cooler (not shown)
- Support Stand (not shown)



Design Features/Benefits

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

- Pressure reservoir with flat heads, without internal cooling coil (GR-3), with internal cooling coil (GR-3C)
- 316/L stainless steel: 73 bar g (1055 psig), @100°C (212°F)
- Carbon steel: 62 bar g (902 psig), @100°C (212°F)
- Minimum design temperature: -29°C (-20°F)
- 1/2" NPT reservoir terminations
- 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)

Applications

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

Option Variants

- Carbon steel or 316/L stainless steel reservoir
- ASME U or UM Stamp
- Pressure gauge ranges
- Pressure switch ranges
- Compatibility with variable barrier/buffer fluid types
- Electrical instruments suitable for:
 - Eexi circuits or Eexd (ATEX)
 - Explosion proof (UL/CSA)
- Reservoir capacity 11.3 liters (3 US gallons) or 18.9 litres (5 US gallons)

Materials of Construction

- Reservoir: carbon steel or 316/L stainless steel
- Level gauge: carbon steel cover, carbon steel or 316/L stainless steel wetted parts depending on reservoir material wetted parts
- Tube and fittings: 316/L stainless steel
- Cooling coil (GR-3C only): 316/L stainless steel

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Option Codes

PRESSURE RANGE		
Pressure Gauge Range	Pressure Switch Range	Code
Working Pressure 0-2 bar g/0-30 psig		
0-10 bar g/0-150 psig	0.3-2 bar g/5-30 psig	A
Working Pressure 2-6 bar g/30-100 psig		
0-10 bar g/0-150 psig	0.7-6.9 bar g/10-100 psig	B
Working Pressure 6-14 bar g/100-200 psig		
0-25 bar g/0-360 psig	1.4-14 bar g/20-200 psig	C
Working Pressure 14-30 bar g/200-435 psig		
0-40 bar g/0-600 psig	3.8-34.5 bar g/55-500 psig	D

BARRIER/BUFFER FLUID TYPE	Code
Mineral Oil – Max viscosity 20cst	M
Water – Water/Glycol & Ethylene/Glycol	W
Barrier/Buffer Fluid to be specified	X

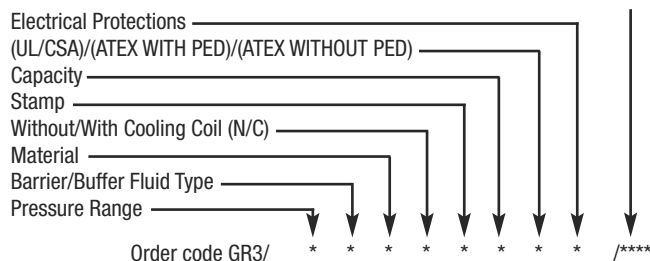
RESERVOIR			
Material	Code	COOLING COIL	Code
Carbon Steel	C	Without Cooling Coil	N
Stainless Steel	S	With Cooling Coil	C
Stamp	Code	Capacity	Code
No Stamp	N	11.3 litre (3 US Gallon)	3
U Stamp	U	18.9 litre (5 US Gallon)	5
UM Stamp (available for certification code U only)	M		

ELECTRICAL ENVIRONMENT TYPE			
Certification	Code	Electric Protections	Code
UL/CSA	U	Explosion proof, (UL/CSA) – 240 VAC	X
		Explosion proof, (UL/CSA) – 120 VAC	I
		Explosion proof, (UL/CSA) – 24 VDC	H
ATEX, plus PED for Reservoir	A	Eexd (ATEX) – 240 VAC	X
		Eexd (ATEX) – 24 VDC	H
		Eexi (ATEX) 24 VDC	G
ATEX, no PED for Reservoir	S	Eexd (ATEX) – 240 VAC	X
		Eexd (ATEX) – 24 VDC	H
		Eexi (ATEX) 24 VDC	G

Option Codes

EQUIPMENT OPTIONS	
Level Gauge (included)	
Handpump Refilling Unit	***1
Low Level Switch	***2
Pressure Gauge with Block and Bleed Valve	***4
Pressure Switch with Block and Bleed Valve	***8
Pressure Gauge and Pressure Switch with common Block and Bleed Valve	**16
Drain valve	**32
Vent Valve	**64
Fin Tube Air Cooler (supplied loose) - (non stocked option)	*128
Support Stand (non stocked option)	*256
Orifice Union	*512
Orifice Plate	1024
Pressurization Line	2048

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 4 digits, should be inserted in the options section of the order code e.g. /*131.



NOTES

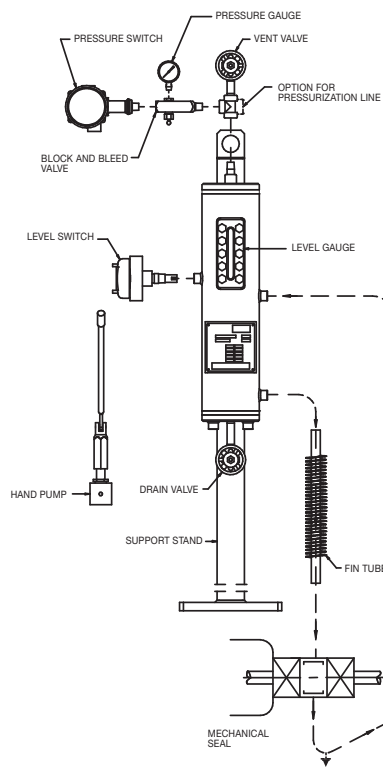
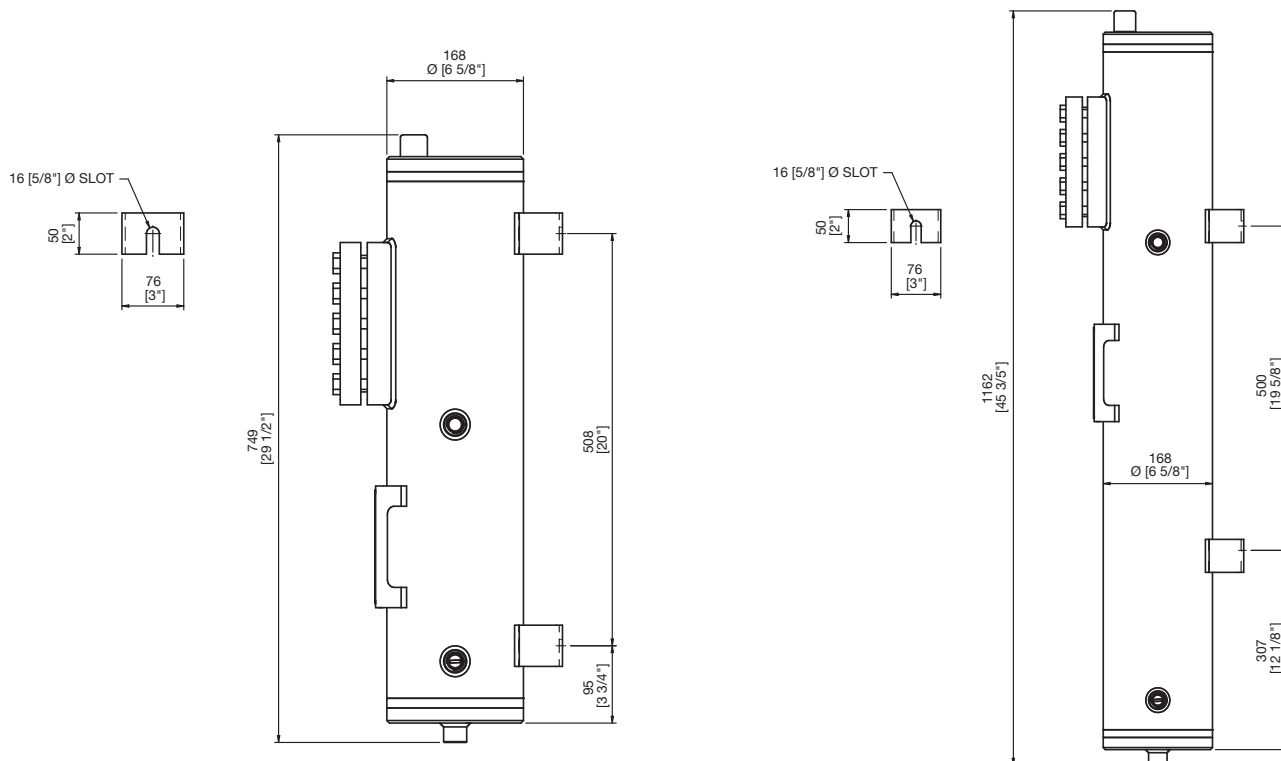
- 1 Electrical connection is M20 (ATEX) or, 3/4" NPT (UL/CSA)
- 2 Barrier/buffer fluid supply and return connections will be shipped with plastic plugs, all other connections will have metallic plugs

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RESERVOIRS

GR3 Series Typical Arrangement

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



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RESERVOIRS

Technical Specification



92, Lot Mauritania - Zone Industrielle Bernoussi
Casablanca MAROC 20590



www.marocsealing.com



marocsealing@marocsealing.com



(+212) 05 22 35 41 49/50



(+212) 05 22 35 41 52



+212 6 62 14 80 39



Maroc Sealing
FLUID CONTROL