GP-S/GP-D

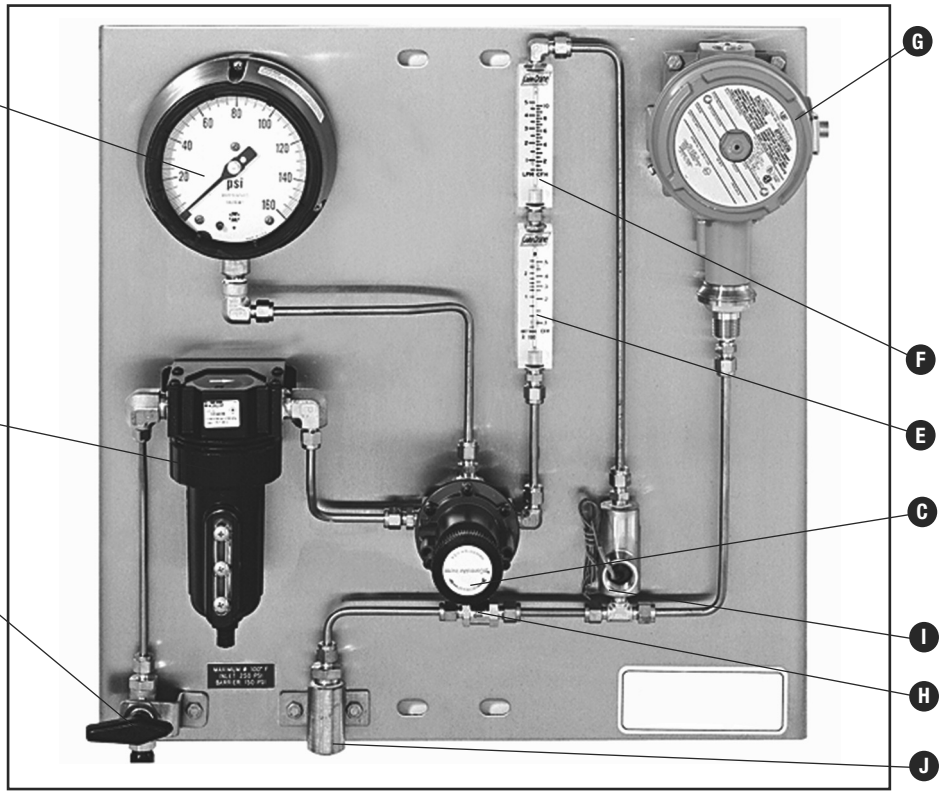
GAS PANELS

Technical Specification

A – Ball Valve (Inlet)
B – Coalescing Filter
C – Pressure Regulator
D – Pressure Gauge
E – Flow Meter Normal Flow
F – Flow Meter High Flow
G – Pressure Switch
H – Check Valve
I – Flow Switch
J – Connection to Seal

Non Stocked Options

Support Stand (not shown)
Enclosure (not shown)



Design Features/Benefits

Purpose designed (non API) low cost panel to regulate and monitor seal gas supply to gas lubricated pump seals

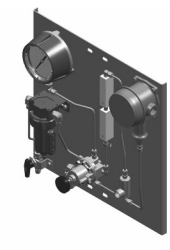
- Inlet max pressure: 17.2 bar g (250 psig) at 38°C (100°F)
  Barrier max pressure: 10.3 bar g (150 psig) at 38°C (100°F)
- Minimum design temperature: -10ºC (14ºF)
- Coalescing filter: ensures clean, dry gas to seals
- Adjustable regulator: accurate setting of gas pressure supplied to seals/gas loss is minimized
- Visual flow indicators: monitors gas consumption
- Check valve: prevents process contamination of panel components and tubing

Option Variants

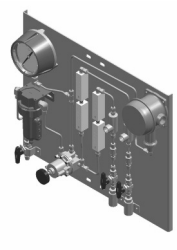
- Pressure gauge ranges
- Pressure switch ranges
- Dual outlet for double ended seal configuration
- Pressure switch suitable for:
  – Eexi circuits or Eexd (ATEX)
  – Explosion Proof (UL/CSA)
- Flow switch suitable for:
  – Eexi circuits or Eexm (ATEX)
  – Explosion Proof (UL/CSA)
- Fibreglass or 304 Stainless Steel enclosure

Applications

- Chemical processing
- Gas processing
- Paint and coatings
- Pharmaceutical
- Pulp and paper
- Rubber and plastics



Single outlet



Dual outlets for pumps with 2 seal chambers (e.g. between bearing configuration)

Materials of Construction

- Panel: 304 stainless steel
- Flow indicators: acrylic
- Coalescing filter: aluminium housing
- Regulator: aluminium housing
- Tube and fittings: 316/L stainless steel

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GAS PANELS

Technical Specification

Option Codes

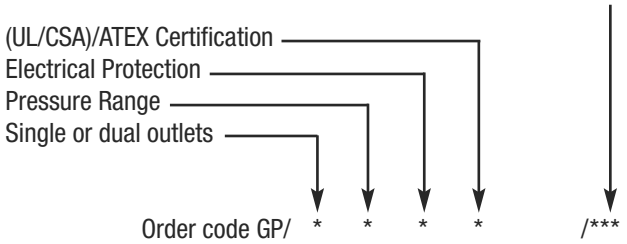
PRESSURE RANGE			
Design/Working Pressure	**PG Range**	**PS Range**	**Code**
0-7 bar g/0-100 psig	0-10 bar g/0-150 psig	0-10 bar g/0-150 psig	A
7-10 bar g/100-225 psig	0-20 bar g/0-300 psig	7-17 bar g/100-250 psig	B

GAS PANEL CONFIGURATION	Code
Single outlet for pump with 1 seal chamber	S
Dual outlets for pump with 2 seal chambers	D

ELECTRICAL ENVIRONMENT TYPE		ELECTRICAL CERTIFICATION	
Electrical Protections	**Code**		**Code**
Explosion Proof – Pressure switches Eexd (ATEX) – XP (UL/CSA), Flow switches Eexm (ATEX) – XP (UL/CSA)	F	UL/CSA	U
Eexi – for intrinsically safe circuits (for ATEX only)	I	ATEX (EU countries)	A
Not applicable – no electrical equipment on system	N	ATEX (non-EU countries)	S

EQUIPMENT OPTIONS	
Pressure Regulator	Included
Filter Assembly	Included
Flow Meter	Included
Pressure Gauge – range follows pressure range selection	Included
Ball Valve – isolation from nitrogen inlet (for dual outlets, two additional valves are mounted on the outlet lines)	**1
Check Valve – protection against back pressure	**2
Pressure Switch	**4
Flow Switch	**8
Fiberglass enclosure (non stocked option)	*16
304 stainless steel enclosure (non stocked option)	*32
Support Stand (non stocked option)	*64

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 3 digits, should be inserted in the options section of the order code e.g. /*42.



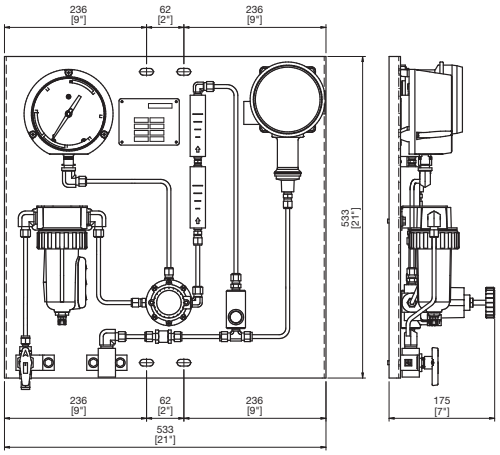
NOTES

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

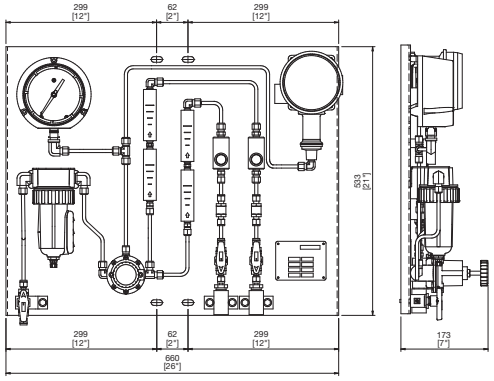
2 The flow switch option is provided with no junction box

GP-S Typical Arrangement

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



GP-D Typical Arrangement



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