



HALE HAMILTON®

Excellence in Pressure & Flow Control

A CIRCOR International, Inc. Company

Series 28-15

NACE Compatible Regulator for Hydraulic or Gas Applications

Description

Series 28 is a range of spring-loaded regulators that provide a flow of gas or liquid at controlled pressure. The outlet pressure is substantially unaffected by flow rate but it does drop slightly as the inlet pressure is increased.

The regulators are made using NACE compatible materials and are suitable for hydraulic or gas applications in sour gas and salt spray environments such as wellhead control panels.

The outlet pressure is set by turning the control knob. Depending on outlet pressure range, the internal mechanism uses either a piston or a diaphragm to isolate the process fluid from the spring compartment. The range of outlet pressure is set by the diameter of the piston or diaphragm and the strength of the spring. A locked outlet type is available which can be adjusted using a spanner.

A relieving valve is included in the mechanism. This vents the outlet pressure to a spill port if it is higher than the set pressure.

Additional outlet ports can be provided for gauges and/or relief valves. A panel mounting kit is available.



Standard Types

Alternative types are available

Series 28 consists of several types which have a consistent naming system. The type name is made up of two parts – letters and numbers:

- *nn* is “15” for the low flow rate version; for a higher flow rate see the “20” series
- *nn* is “25” or “26” for the hard (metal seated) version

- GLD*nn* – diaphragm type – good sensitivity at low outlet pressures
- GLP*nn* – large piston type – suitable for intermediate outlet pressures
- GHP*nn* – small piston type – suitable for high outlet pressures
- GXP*nn* – extra small piston type – suitable for very high outlet pressures

Standard Specification

See next page for specification of individual types

- Inlet pressure: up to 465 bar (6750 psi) for gas, up to 690 bar (10000 psi) for liquid
- Temperature range: -20 to +70°C (extended temperature range versions can be supplied)
- Regulators for gas service have a filter in the inlet

Standard Materials

Alternative materials can be supplied

- Body: Stainless Steel
- Valve: Stainless Steel
- Valve Seat: PEEK or Stainless Steel (GHP25 & GLP26)
- O rings and Diaphragm: Nitrile
- Back up rings: PTFE

In addition to our standard product range, we have an extensive range of special designs and offer a custom build service. Contact our Sales office if you don't see what you want in our catalogue.

The information contained within this catalogue is for reference purposes only and is subject to change.

When selecting a product, the total system design must be considered to ensure safe, trouble free performance. Component function, material compatibility, adequate ratings, proper installation, operation and maintenance are the responsibility of the system designer and user.

Hale Hamilton (Valves) Ltd
Cowley Road, Uxbridge, UB8 2AF, UK
Tel: 01895 236 525
www.halehamilton.com



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Options

Please contact us for details

- Ports: alternative port configurations can be supplied including additional ports for gauges and relief valves
- Materials: suitable combinations of materials can be supplied for various applications such as Oxygen or Offshore service.
- Certification: variants are available approved for use with Oxygen, for medical Oxygen service or for ATEX service.
- The internal relieving valve can be omitted
- A back pressure maintaining variant is available

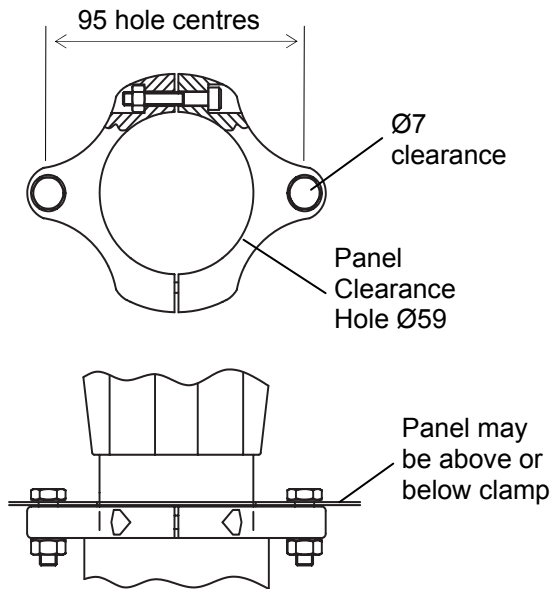
Ordering Information

Please supply the following information when ordering

- Outlet pressure range
- Flow medium
- Control knob or locked output (state required outlet pressure)
- Internal limit stops – state maximum pressure
- Port configuration
- Operating and storage temperature ranges
- Mounting kit required
- Certification and QA requirements

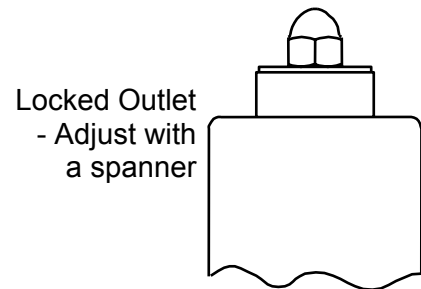
Panel Mounting

Dimensions in mm



Locked Output Variants

Locking mechanism replaces control knob



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Gxx15/25 – 3/8” ports

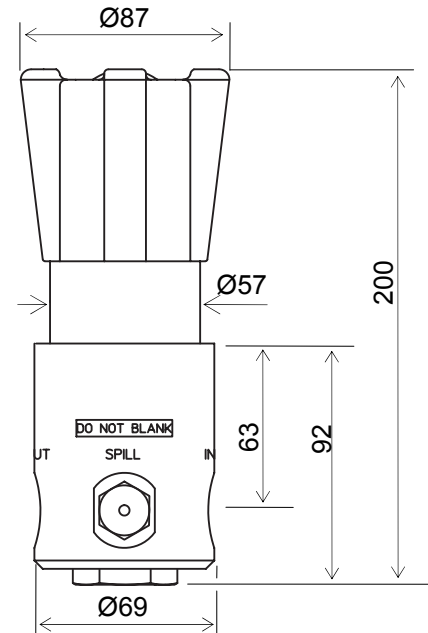
Typical Dimensions

in mm except where shown otherwise

Specification

Type	GLD	GLP	GHP	GXP
Min outlet pressure* bar <i>psi</i>	1.5 25	34 500	207 3000	390 5650
Max outlet pressure bar <i>psi</i>	58 850	241 3500	414 6000	655 9500
Pressure Variation**	0.5%	2%	3%	4.5%

- Nominal Bore: 5mm (outlet passage)
- Flow factor (Cv): 0.08
- Inlet, outlet, spill & gauge ports: 3/8” NPT female (spill port is via an adaptor)
- Weight: less than 3.5kg



* Recommended minimum outlet pressure. All regulators can be turned down to approximately zero pressure but sensitivity is low below the recommended value.

** Pressure variation is the RISE in outlet pressure for a DROP in inlet pressure

GLP26 Mk7 – 3/8” ports - Low Pressure Hydraulic

Specification

GLP26 Mk7 provides a low pressure hydraulic supply, suitable for pilot actuators, from a high pressure input. It uses a large diameter piston with low friction bearings to prevent “stiction”. The result is a regulator that has a high sensitivity to outlet pressure but gives a positive, leak tight closure onto a hard stainless steel seat.

The specification is as above except:

- Medium: Water/Glycol (60/40 or 95/5) or oil based Hydraulic fluid
- Maximum Inlet pressure: 414 bar (6000 psi)
- Outlet Pressure range: 0 to 7 bar (0 to 102 psi)
- 3/8”NPT female spill port machined into body (no adaptor)

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Part Numbers and Spares Kits

Please refer to Service Instruction SI1056 available on request

Part Number	Type Number	Seat	Gauge Ports	Medium	Spares Kit
NB28007/1	GLD15 MK7	PEEK	No	Gas	K222/1
NB28027/1	GLD15 MK7/HYD	PEEK	No	Hydraulic Oil	K222/2
NB28008/1	GLD15 MK8	PEEK	Yes	Gas	K222/1
NB28028/1	GLD15 MK8/HYD	PEEK	Yes	Hydraulic Oil	K222/2
NB28057/1	GLP15 MK7	PEEK	No	Gas	K423
NB28077/1	GLP15 MK7/HYD	PEEK	No	Hydraulic Oil	K424
NB28058/1	GLP15 MK8	PEEK	Yes	Gas	K423
NB28078/1	GLP15 MK8/HYD	PEEK	Yes	Hydraulic Oil	K424
NB28107/1	GHP15 MK7	PEEK	No	Gas	K426
NB28117/1	GHP15 MK7/HYD	PEEK	No	Hydraulic Oil	K427
NB28108/1	GHP15 MK8	PEEK	Yes	Gas	K426
NB28118/1	GHP15 MK8/HYD	PEEK	Yes	Hydraulic Oil	K427
NB28617/1	GXP15 MK7/HYD	PEEK	No	Hydraulic Oil	K298
NB56427/1	GHP25 Mk7/HYD	Stainless Steel	No	Hydraulic Oil	K1160
NB58851/1	GLP26 Mk7	Stainless Steel	No	Oil or Water/Glycol	K1174

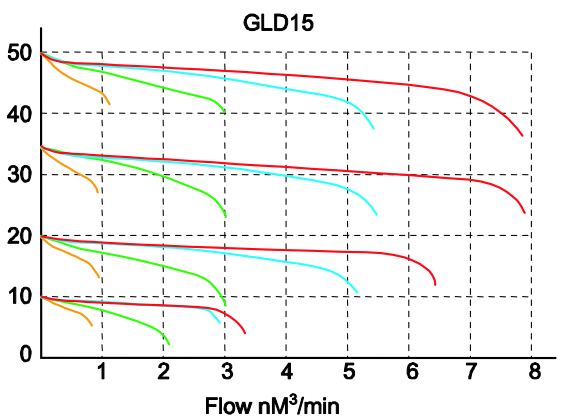
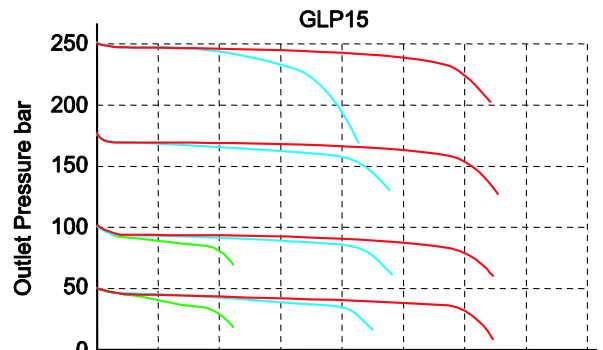
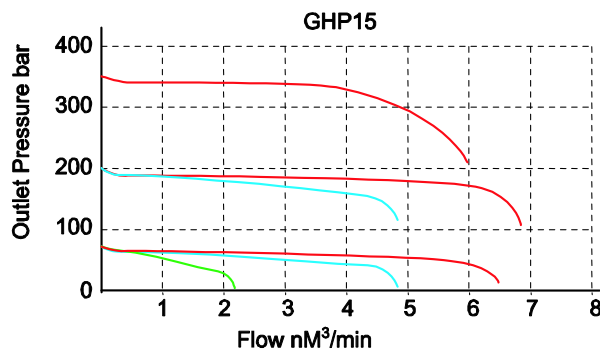
Flow Characteristics

Typical characteristics of sample regulators. Detail design changes may affect these characteristics

The regulator is set to a desired outlet pressure at zero flow using the control knob. Flow is induced by opening a metering valve downstream and the change in outlet pressure is measured without adjusting the knob. This is repeated for various inlet pressures

- 400 bar
- 275 bar
- 140 bar
- 70 bar

Key to inlet pressures



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