RLF Datasheet

RELIEF VALVE

● Gas ○ Liquid | Cracking Pressure: Up to 60 bar (870 psi)





INTRODUCING THE RLF...

The RLF is a compact, high-performance relief valve designed for use in high-purity and specialty gas systems. Suitable for gases up to 6.0 purity, the RLF provides reliable overpressure protection with cracking pressures individually specified up to 60 bar (870 psi).

Available in 316 stainless steel or chrome-plated brass, with a choice of EPDM or FKM sealing materials, the RLF can be configured to suit a wide range of gas applications.

Its compact construction, low leakage performance and flexible porting options make it particularly suited to gas panels, analytical systems, laboratory installations and other applications where space, cleanliness and dependable pressure protection are critical.

STANDARD MATERIALS OF CONSTRUCTION

PART	MATERIALS
Body and Bonnet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
	Chrome Plated Brass CW614N (UNS C38500)
Poppet	ASTM A479 316/316L Stainless Steel (UNS S31600/S31603)
Valve Spring	ASTM A240 301 Stainless Steel (UNS S30100)
Filter	100 Microns

SPECIFICATIONS

Cracking Pressure	Up to 60 bar (870 psi)
Purity	≤ 6.0
Weight	80g (0.17lbs)
Dimensions	See page 2

FEATURES AND BENEFITS

1 FOR HIGH PURITY GAS ≤ 6.0

Ensures the materials, design, and internal surface finish do not contaminate high purity gases.

2 COMPACT DESIGN

It's compact design offers easy installation.

3 TARGETED DESIGN

Designed for speciality, calibration and analytical gas systems.

4 CUSTOMISABLE CRACKING PRESSURE

Individually specified cracking pressures up to 60 bar (870 psi).

Product availability and specifications contained herein are subject to change without notice. Consult local distributor or factory for potential revisions and/or service related issues.
Pressure Tech Ltd support with product selection recommendations only - it is the users responsibility to ensure the product is suitable for their specific application requirements.

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DESIGNED, MANUFACTURED AND BUILT IN THE UK

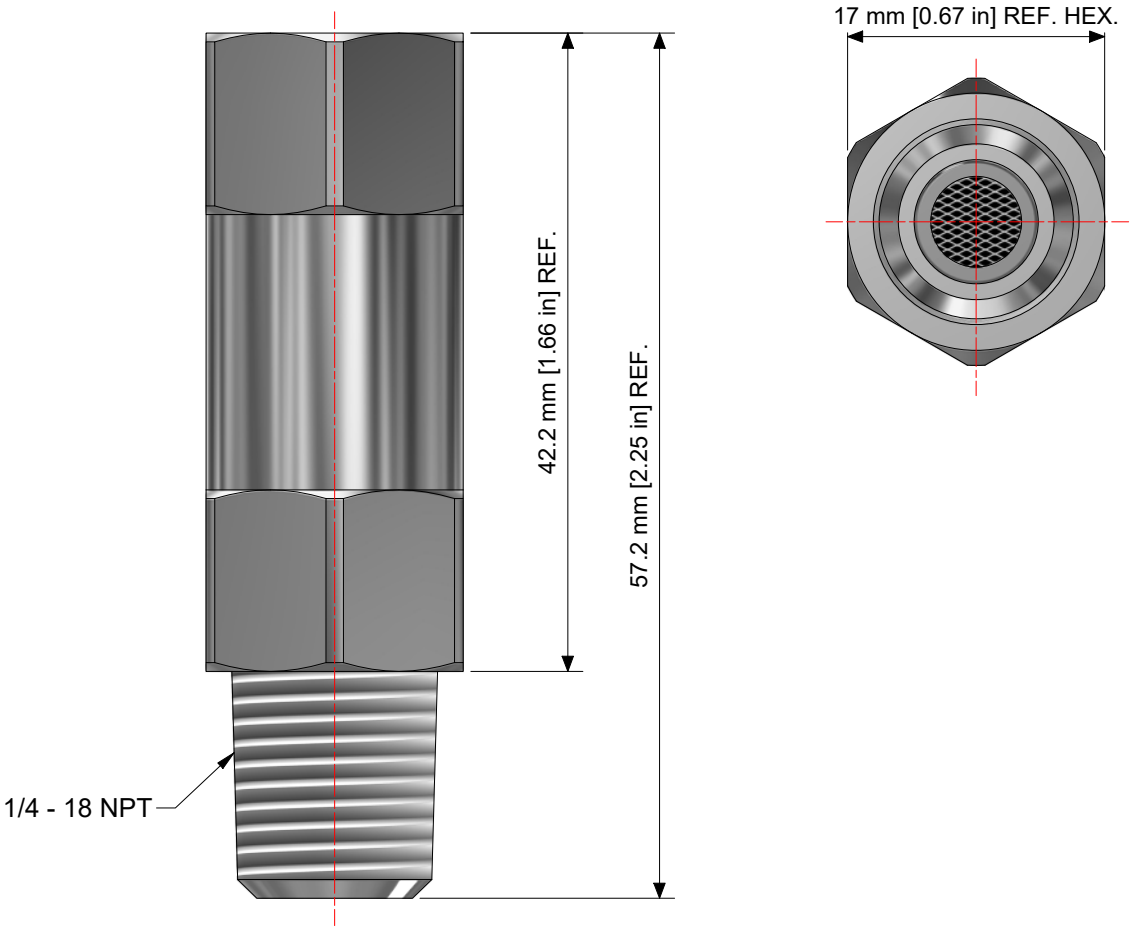
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CLEANLINESS STANDARDS & SURFACE FINISH

All components are precision-cleaned to meet stringent cleanliness levels of 1mg/m², in accordance with ASTM G93/G93M, ASTM F331-13, and ISO 15001:2011. Brass products are electroplated as standard to enhance durability and corrosion resistance.

DRAWINGS AND INSTALLATION DIMENSIONS



P&ID



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ORDERING INFORMATION

To build a Pressure Tech part number, simply combine the characters identified below in sequence:

RLF300S – S – 15 – V – 02NM – 02N

MAX. OPERATING PRESSURE

RLF300S – Up to 300 bar (4,350 psi) - Standalone

MATERIAL

C – Chrome Plated Brass
S – ASTM A479 316/316L Stainless Steel

CRACKING PRESSURE

6 – 6 bar (87 psi)
9 – 9 bar (130 psi)
15 – 15 bar (217 psi)
21 – 21 bar (304 psi)
42 – 42 bar (609 psi)
60 – 60 bar (870 psi)

OUTLET PORT

02N – 1/4” FNPT

INLET PORT

02NM – 1/4” MNPT

O-RING

E – EPDM
V – FKM

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