Model - GRF40S

Description

The GRF40S springloaded pressure regulator reduces the supply pressure on the inletside to a controlled pressure on the outletside.

Specifications

Inlet pressure 50 or 280 bar Adjustable 0-280 bar

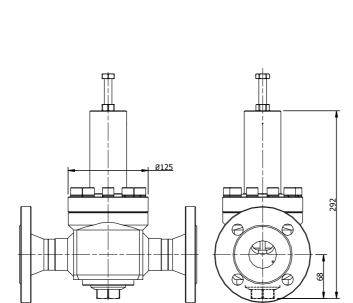
Connections DN40 flanges EN 1092-1 or

1 1/2" flanges ANSI B16.5

Seatdiameter 22,5 mm Cv / Kv Cv 10 / Kv 8.8

Fluids

This pressure regulator is suitable for gases and liquids.





Materials

The regulator is made out of barstock stainless steel material.

Body ss 316L Springhousing ss 316L Valve ss 316L

Seat KEL-F, PEEK or rubber

Valve spring ss 316 Setspring ss 302

O-rings / diaphragm NBR, FKM or EPDM

Other materials available on request.

All metal parts are marked with a traceable batch number. Material certificates are available on request.

Temperature

The general temperature range of the regulator is -50 / 200 °C, but could be limited due to the used sealing materials.

KEL-F seat	-15 / 60 °C
PEEK seat	-50 / 200 °C
NBR seals	-35 / 130 °C
FKM seals	-20 / 200 °C
EPDM seals	-50 / 120 °C

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Technical details

- all regulators tested before delivery
- leak-tight seat design
- all parts cleaned and degreased
- PED classification CAT I or II
- ATEX classification EXII 3GD

Although this regulator has a leak-tight seat, the regulator should not be used as a shutt-off valve.

Spare parts kits are available for the regulator.

Dependency

A character of the regulator is "dependency". The set-pressure will change, when you have a changing inletpressure.

Options

Dutch Regulators supplies the regulators to your needs. When you have the need for special features or options, Dutch Regulators is the right address.

Standard options

locking cap

Special options

- other seal materials on request
- other body materials on request
- material according to NACE MR0175

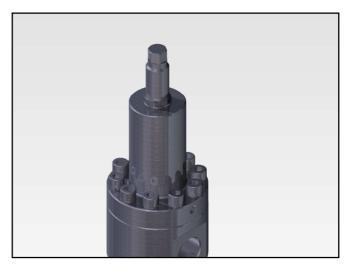
Flow

The regulator has good flow performance over the complete range of inlet and outlet pressures. Always ask Dutch Regulators for advice, if this regulator is the best choice for your application.

Adjusting the regulator

The regulator comes standard with a setscrew.

Regulators that have a fixed setpoint, can be equipped with a locking cap.



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Section view

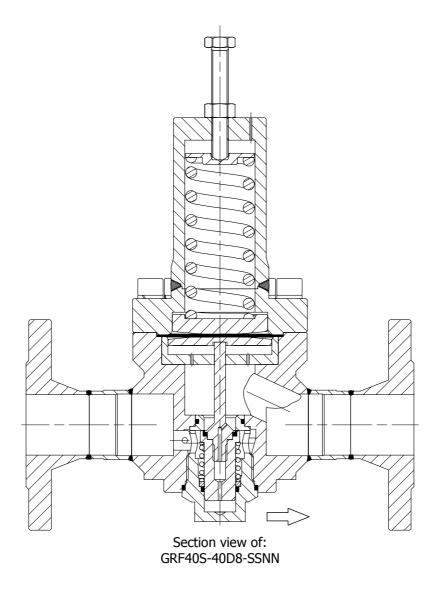
The section view gives an idea of the internals of the regulator.

- diaphragm sensing below 8 bar outletpressure
- piston sensing above 20 bar outletpressure
- rubber seated for design pressure below 50 bar
- plastic seated for design pressure above 50 bar

Gaugeports

The regulator has standard two 1/4" NPT gaugeports to measure the inlet and outlet pressure.

On request it is possible to have other gaugeports.





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Connections

The regulator is designed for flanged connections. The flanges are welded to the regulator with butt-welds.

DIN – flanges according to EN 1092-1

DN40 PN40 40 bar design pressure

ANSI – flanges according to ANSI B16.5

20 bar	design pressure
50 bar	design pressure
100 bar	design pressure
280 bar	design pressure
	50 bar 100 bar

Other connections like weld-stubs for example are available on request.



Design pressures

The regulator range consists of 2 design pressure ranges, where the design pressure applies for the inlet and outletside.

The design pressure could be limited to the maximum pressure of the flanges.

The design pressure comes standard together with specific seat materials.

50 bar
NBR, FKM or EPDM
280 bar
Kel-f or PEEK

Depending on temperature or special wishes, the seatmaterial could be different as mentioned above.

Typenumber explanation

Example: GRF40S - 40D8 - SSNN

model	design pressure	connections	adjustable	material	seat	seals	options
GRF40S	20 : 20 bar	D : DIN	3 : 0-3 bar	SS SS 316L	N nitrile	N nitrile	L locking cap
	40 : 40 bar	EN 1092-1	8 : 0-8 bar		NBR	NBR	
	50 : 50 bar	A : ANSI	20 : 0-20 bar		V viton	V viton	
	100 : 100 bar	ANSI B16.5	50 : 0-50 bar		FKM	FKM	
	280 : 280 bar		100 : 0-100 bar		E EPDM	E EPDM	
		S : weld stubs	280 : 0-280 bar		K kel-f		
					(pctfe)		xxx codes for
					P Peek		special optio

All regulators are marked with a unique ID number, the exact configuration of the regulator is stored in this ID number. Always mention the ID number in case you need spare parts.

