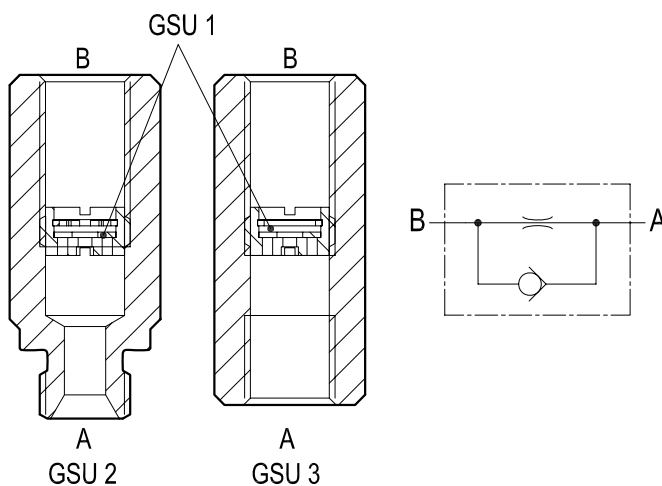


Flow control valves

Fixed orifice restrictors with reverse flow check

GSU Series

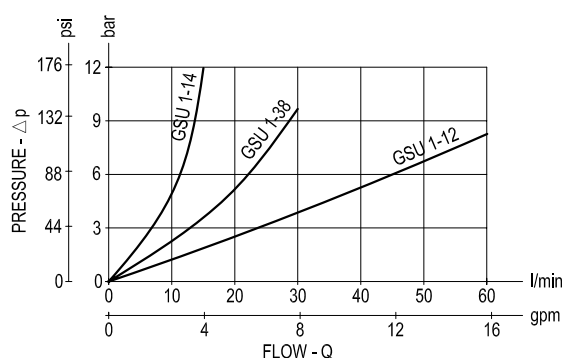


Description

The "B-A" flow is restricted by a calibrated orifice, while flow "A-B" is always allowed through the incorporated check valve. Pressure compensation is not provided and flow depends from pressure drop and oil viscosity.

The valve is composed by an hexagonal threaded sleeve with a special inserted cartridge (GSU1): the cartridge is available in different orifice sizes, and can be fitted in either direction (see drawing).

Performance



Δp curves vs. flow in "A-B" free flow direction

Advantages

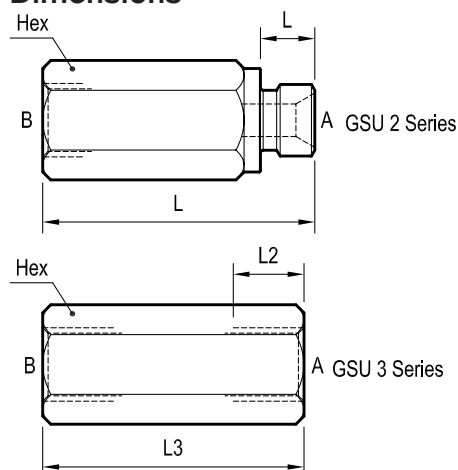
- Compact design and inline mounting for space saving.
- Three sizes provide great adaptability to the system.
- Mounting position is unrestricted.
- Low Δp in the free flow direction.

Technical data

Code	Pressure P max bar (psi)	Flow Q max l/min (gpm)	Weight kg (lbs)
GSU 2-14	300 (4300)	15 (4)	0.07 (0.15)
GSU 2-38	300 (4300)	30 (8)	0.1 (0.22)
GSU 2-12	300 (4300)	70 (18)	0.19 (0.42)
GSU 3-14	300 (4300)	15 (4)	0.08 (0.18)
GSU 3-38	300 (4300)	30 (8)	0.1 (0.22)
GSU 3-12	300 (4300)	70 (18)	0.17 (0.37)

Steel body, zinc plated

Dimensions



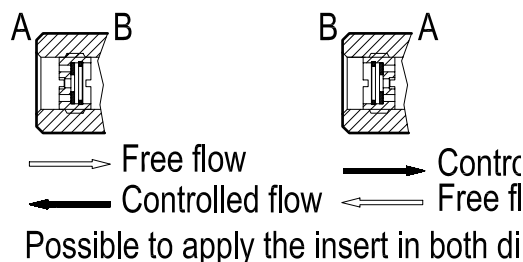
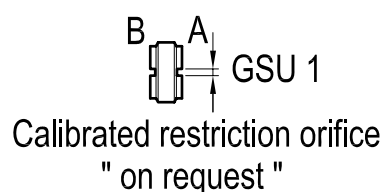
Applications

The GSU Series valve is a cost effective non-compensated flow control which can be employed in a variety of cases when a one-way restrictor is needed. The smallest sizes can be used also as dampeners for pressure peaks, control of brake engagement.

Ports size / Dimensions

Code	Ports size A-B	L mm (inches)	L1 mm (inches)	L2 mm (inches)	L3 mm (inches)	Hex mm (inches)
GSU 2-14	G 1/4	10 (0.39)	50 (1.96)	/	/	19 (0.75)
GSU 2-38	G 3/8	12 (0.47)	55 (2.17)	/	/	22 (0.87)
GSU 2-12	G 1/2	14 (0.55)	70	/	/	27 (1.06)
GSU 3-14	G 1/4	/	/	13 (0.51)	48 (1.89)	19 (0.75)
GSU 3-38	G 3/8	/	/	13 (0.51)	52 (2.05)	22 (0.87)
GSU 3-12	G 1/2	/	/	14 (0.55)	60 (2.36)	27 (1.06)

Application example



Ordering code

Diagram illustrating the relationship between GSU, Port size, and Series:

- GSU is connected to Port size (see below).
- Port size (see below) is connected to series 2 = 2 and series 3 = 3.
- Port size (see below) is also connected to =14, =38, and =12.

XXX: It identifies the I.D. of the requested orifice. (only mm value)

example 1: GSU2.14.200 = M/F - G 1/4 - hole 2 mm (0.079 inches)

example 2: GSU3.14.075 = F/F - G 1/4 - hole 0.75 mm (0.030 inches)

Type	Material number	Type	Material number	Type	Material number
GSU2.12.000	R932006954	GSU3.12.000	R932006959		
GSU2.12.100	R932006953	GSU3.12.075	R932006957		
GSU2.12.200	R932006955	GSU3.12.150	R932006958		
GSU2.14.000	R932006926	GSU3.14.000	R932006960		
GSU2.14.075	R932500236	GSU3.14.075	R932500245		
GSU2.14.200	R932006956	GSU3.14.150	R932500248		
GSU2.38.000	R932006927	GSU3.38.000	R932006961		
GSU2.38.075	R932500237	GSU3.38.100	R932500249		
GSU2.38.100	R932500239	GSU3.38.150	R932500250		