RE 18316-02/10.09

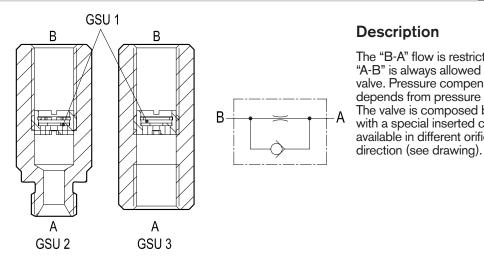
1/2

Flow control valves

Fixed orifice restrictors with reverse flow check



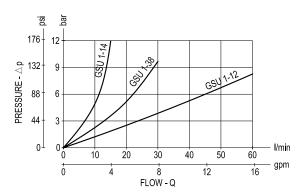
GSU Series



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

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 I/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 Hex В GSU 2 Series L L2 Hex В A GSU 3 Series L3

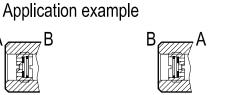
Applications

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

		1	1	1		
Code Ports size A-B	L mm	L1 mm	L2 mm	L3 mm	Hex mm	
		(inches)	(inches)	(inches)	(inches)	(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)



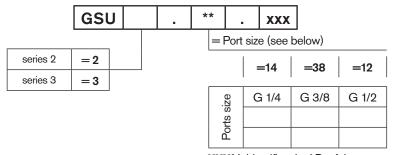


Free flow Controlled flow <=== Free fl</p>



Possible to apply the insert in both di

Ordering code



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)

Туре	Material number
GSU2.12.000	R932006954
GSU2.12.100	R932006953
GSU2.12.200	R932006955
GSU2.14.000	R932006926
GSU2.14.075	R932500236
GSU2.14.200	R932006956
GSU2.38.000	R932006927
GSU2.38.075	R932500237
GSU2.38.100	R932500239

Туре	Material number
GSU3.12.000	R932006959
GSU3.12.075	R932006957
GSU3.12.150	R932006958
GSU3.14.000	R932006960
GSU3.14.075	R932500245
GSU3.14.150	R932500248
GSU3.38.000	R932006961
GSU3.38.100	R932500249
GSU3.38.150	R932500250

Туре	Material number

Bosch Rexroth Oil Control S.p.A. Fimma Division (Rge 2) Via G. Bovio, 7 Z.I. Mancasale 42124 Reggio Emilia, Italy Tel. +39 0522 517 277

Fax +39 0522 517 125 cartridges@oilcontrol.com www.boschrexroth.com

 $\ensuremath{\mathbb{C}}$ This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth Oil Control S.p.a.. It may not be reproduced or given to third parties without its consent.

The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Subject to change.