

RE 18316-10/10.09

1/2

Flow control valves Adjustable restrictors with poppet type reverse flow check





Description

RU Series

With flow from B to A this line mounted valve provides a fully adjustable orifice restriction. Pressure compensation is not provided and flow depends from pressure drop and oil viscosity.

Free flow is allowed from A to B by an incorporated check valve, when pressure at A rises above the spring bias pressure and the poppet is pushed from the seat.

Performance





Technical data

Code	Pressure P max bar (psi)	Flow Q max I/min (gpm)	Weight kg (lbs)
RU 7	350 (5000)	25 (7)	0.28 (0.62)
RU 10	350 (5000)	45 (12)	0.48 (1.06)
RU 13	350 (5000)	70 (19)	0.85 (1.87)
RU 19	350 (5000)	140 (37)	1.58 (3.48)

Cast iron, zinc plated with aluminium hand knob

Advantages

-Compact design.

-Four sizes provide great adaptability to the system. -Fine adjustment.

Dimensions





М

Ports size / Dimensions

Code	Ports size A-B	l* mm (inches)	L mm (inches)	Ø B mm (inches)	E max mm (inches)	D mm (inches)	M mm (inches)
RU 7	G 1/4	21 (0.83)	64 (2.52)	31 (1.22)	70.5 (2.78)	24 (0.95)	24 (0.95)
RU 10	G 3/8	25 (0.98)	75 (2.95)	37 (1.46)	81 (3.19)	30 (1.18)	28 (1.10)
RU 13	G 1/2	29 (1.14)	92 (3.62)	42 (1.65)	104 (4.09)	36 (1.42)	35 (1.38)
RU 19	G 3/4	36.5 (1.44)	115 (3.62)	50 (1.97)	134 (5.28)	43 (1.69)	43 (1.69)

The RU series valves can be converted into panel mounted version (like RUF) by removing and adding the items here indicated.

		Remove from RU valve			ve from RU valve Add For panel mounting				
3 5	code	Screw (3)	Rivet (5)	Screw (2)	Hand Knob (1)	Ring Nut (H)	Hand Knob (4)	Screw (3)	Rivet (5)
	RU 7 RUF 7	M3 x 6 UNI 5927.67 code: 0771432.01	4M x 6.5 code: 0771352.01	M4 x 10 code: 0771432.04	077.1431.01	20 x 1 code: 0811131.16	081.1431.05	M3 x 6 UNI 5927.67 code: 0771432.01	4M x 6.5 code: 0771352.01
	RU 10 RUF 10	M4 x 8 UNI 5927.67 code: 0781432.02	4M x 8 code: 0781352.02	M4 x 10 code: 0771432.04	078.1431.02	25 x 1.5 code: 0821131.17	082.1431.06	M4 x 8 UNI 5927.67 code: 0781432.02	6M x 8 code: 0781352.02
RUF	RU 13 RUF 13	M4 x 8 UNI 5927.67 code: 0781432.02	4M x 8 code: 0781352.02	M5 x 12 0791432.05	079.1431.03	30 x 1.5 code: 0831131.18	083.1431.07	M4 x 8 UNI 5927.67 code: 0781432.02	6M x 8 code: 0781352.02
	RU 19 RUF 19	M5 x 10 UNI 5927.67 code: 0801432.03	10M x 9.5 code: 0801352.03	M5 x 12 + rivet Ø 5 (0.20) UNI 6593-69 code: 0791432.05	080.1431.04	35 x 1.5 code: 0841131.19	084.1431.08	M5 x 10 UNI 5927.67 code: 0801432.03	10M x 9.5 code: 0801352.03

Ordering code

	RU	
series 7	= 7	
series 10	= 10	
series 13	= 13	
series 19	= 19	

Adj. trav	/el (only b	ar value se	e below)	
	RU 7	RU 10	RU 13	RU 19

↓ </th
--

Cracking pressure (free flow) is always 1 bar (14.5psi)

Туре	Material number	Туре	Material number	Туре	Material number
RU7	R932500550				
RU10	R932500552				
RU13	R932500553				
RU19	R932500554				

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

Applications

The RU Series valve is a fully and easily adjustable non-compensated flow control which can be employed for meter-in (Port A connected to the actuator inlet) or meter-out (Port B connected to the actuator outlet in order to control the oil flow from the actuator). The easiness of installation and of adjustment make it suitable for many circuits and many applications where a non-compensated flow control is desired.

© 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.