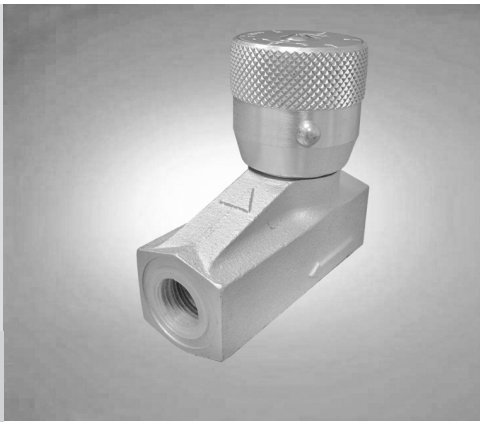
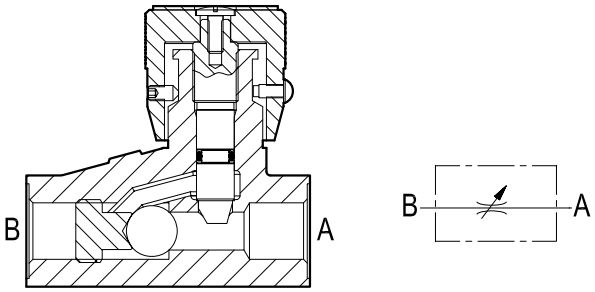
Rexroth
Bosch Group

Flow control valves

Adjustable bidirectional flow restrictors



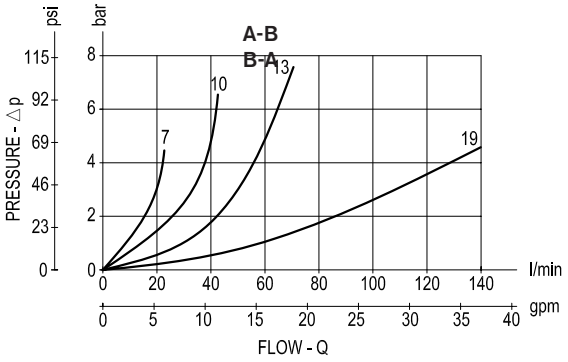
RD Series



Description

This line mounted valve provides a fully adjustable orifice restriction. Even though the Performance curves shown in the tables refer to the A-B flow direction, the valve is actually bi-directional and the performance curves can be assumed almost accurate also for the reverse flow direction B-A. Pressure compensation is not provided and flow depends from pressure drop and oil viscosity.

Performance



Throttle fully open

Technical data

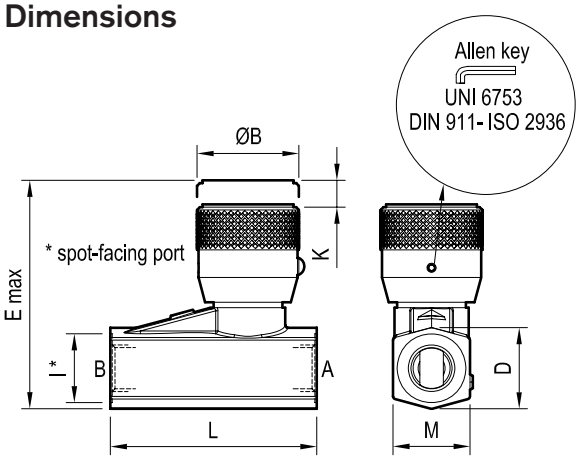
Code	Pressure **P** max bar (psi)	Flow **Q** max l/min (gpm)	Weight kg (lbs)
RD 7	350 (5000)	25 (7)	0.28 (0.62)
RD 10	350 (5000)	45 (12)	0.48 (1.06)
RD 13	350 (5000)	70 (19)	0.85 (1.87)
RD 19	350 (5000)	140 (37)	1.58 (3.48)

Cast iron, zinc plated with aluminium hand knob

Advantages

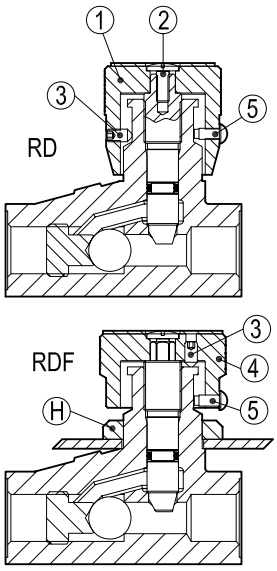
-Compact design
-Four sizes provide great adaptability to the system.
-Fine adjustment.
-Mounting position is unrestricted.

Dimensions



Post size / Dimensions

Code	Ports size A-B	I* mm (inches)	L mm (inches)	Ø B mm (inches)	E max mm (inches)	D mm (inches)	M mm (inches)
RD 7	G 1/4	21 (0.83)	64 (2.52)	33 (1.30)	63.5 (2.5)	24 (0.95)	24 (0.95)
RD 10	G 3/8	25 (0.98)	75 (2.95)	40 (1.58)	73 (2.87)	30 (1.18)	28 (1.10)
RD 13	G 1/2	29 (1.14)	92 (3.62)	45 (1.77)	93 (3.66)	36 (1.42)	35 (1.38)
RD 19	G 3/4	36.5 (1.44)	115 (3.62)	53 (2.09)	120 (4.72)	43 (1.69)	43 (1.69)



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

	Remove from RD valve				Add For panel mounting			
code	Screw (3)	Rivet (5)	Screw (2)	Hand Knob (1)	Ring Nut (H)	Hand Knob (4)	Screw (3)	Rivet (5)
RD 7 RDF 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
RD 10 RDF 10	M4 x 8 UNI 5927.67 code: 0781432.02	6M 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
RD 13 RDF 13	M4 x 8 UNI 5927.67 code: 0781432.02	6M 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
RD 19 RDF 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

RD	

series 7	= **7**
series 10	= **10**
series 13	= **13**
series 19	= **19**

Adj. travel (only bar value see below)

	RD 7	RD 10	RD 13	RD 19
K mm (inch)	7 (0.28)	8 (0.31)	11 (0.43)	14 (0.55)

Applications

The RD Series valve is a fully and easily adjustable non-compensated flow control which can be employed many applications where a non-compensated bidirectional flow control is desired.

Type	Material number
RD7	R932500528
RD10	R932500529
RD13	R932500530
RD19	R932500531

Type	Material number

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