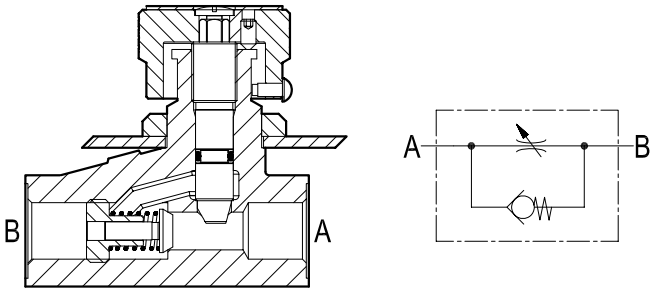
Flow control valves

Adjustable restrictors with poppet type reverse flow check

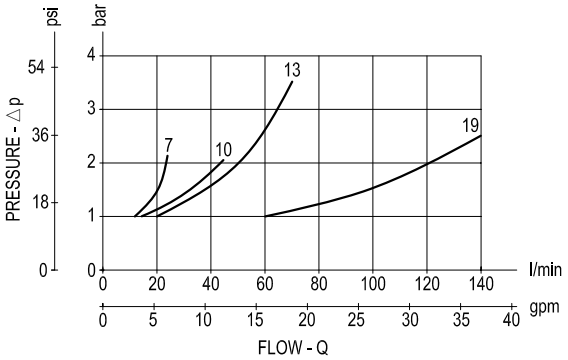
RUF Series



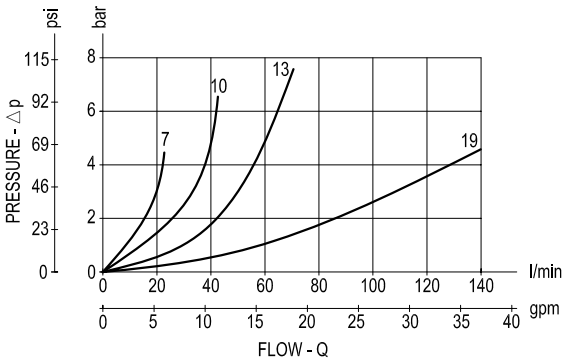
Description

With flow from B to A this 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. This RUF flow restrictor can be line mounted or panel mounted and the hand-knob can be locked after adjustment.

Performance



A-B Needle fully closed



B-A Needle fully open

Technical data

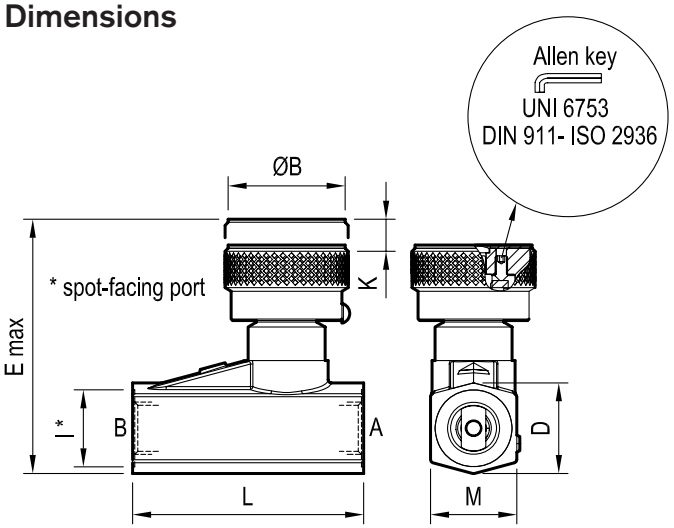
Code	Pressure **P** max bar (psi)	Flow **Q** max l/min (gpm)	Weight kg (lbs)
RUF 7	350 (5000)	25 (7)	0.28 (0.62)
RUF 10	350 (5000)	45 (12)	0.48 (1.06)
RUF 13	350 (5000)	70 (19)	0.85 (1.87)
RUF 19	350 (5000)	140 (37)	1.56 (3.48)

Cast iron, zinc plated with aluminium hand knob

Advantages

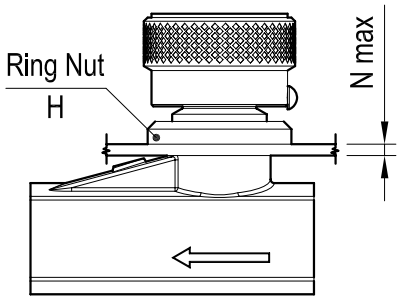
-Compact design.
-Panel mounting.
-Four sizes provide great adaptability to the system.
-Fine adjustment.

Dimensions



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)
RUF 7	G 1/4	21 (0.83)	64 (2.52)	33 (1.30)	63.5 (2.5)	24 (0.95)	24 (0.95)
RUF 10	G 3/8	25 (0.98)	75 (2.95)	40 (1.58)	73 (2.87)	30 (1.18)	28 (1.10)
RUF 13	G 1/2	29 (1.14)	92 (3.62)	45 (1.77)	93 (3.66)	36 (1.42)	35 (1.38)
RUF 19	G 3/4	36.5 (1.44)	115 (3.62)	53 (2.09)	120 (4.72)	43 (1.69)	43 (1.69)



Code	N max mm (inches)	H
RUF 7	5.5 (0.22)	M20x1
RUF 10	5.5 (0.22)	M25x1.5
RUF 13	7.5 (0.30)	M30x1.5
RUF 19	7.5 (0.30)	M35x1.5

Applications

The RUF Series valve is a panel mounted fully and 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.

Ordering code

RUF	

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

Adj. travel (only bar value see below)

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

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

Type	Material number
RUF7	R932500556
RUF10	R932500558
RUF13	R932500559
RUF19	R932500560

Type	Material number

Type	Material number

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Subject to change.