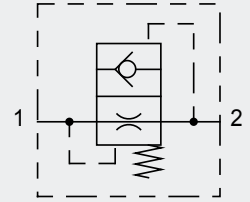


Hose burst valve RBS1



Max. operating pressure 315 bar
Max. flow rate up to 150 l/min



090410_RBS1_14
12.2025

Table of contents

Contents	Page
Characteristics	1
Technical data	2
Characteristic curves	2
Type code	4
Accessories and further information	4

Characteristics

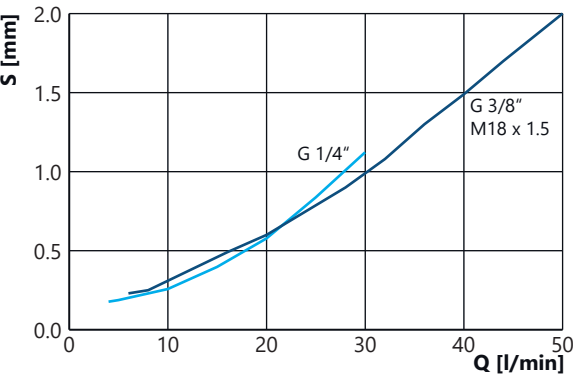
- Screw-in hose burst valve
- To prevent sudden pressure loss due to tubing or hose breaks
- Various sizes available
- Easy to install
- Compact design
- Maintenance-free

Technical data

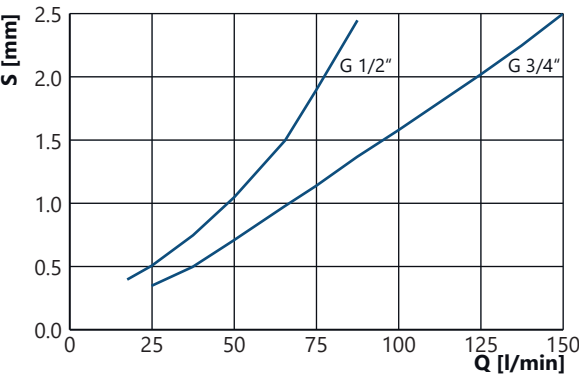
Hydraulic characteristics	Max operating pressure:	315 bar
	Max. flow rate:	See type code
	Flow direction:	From 1 to 2: no function From 2 to 1: working direction
	Operating fluids:	Mineral oils according to DIN 51524, others on request
	Viscosity range:	7.4 - 420 cSt
Mechanical characteristics	Filtration:	Oil purity according to ISO 4406 (1999) 18/16/13, filter with $\beta_{5(c)} > 200$
	Design:	Screw-in valve
	Size:	G 1/4", G 3/8", G 1/2", G 3/4", M18 x 1.5
	Fluid temperature:	-30 °C to +100 °C
	Ambient temperature:	-30 °C to +100 °C
	Storage temperature:	-30 °C to +80 °C (non-condensing)
	Installation position:	Any
	Weight:	See the table in the dimensions section
	Materials:	Steel

Characteristic curves

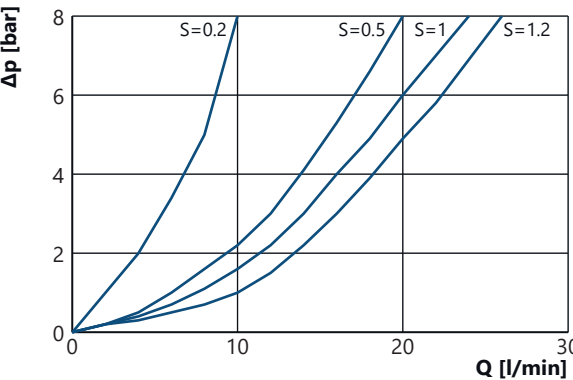
Setting diagram for clearance (S/Q) G 1/4" and G 3/8", M18 x 1.5



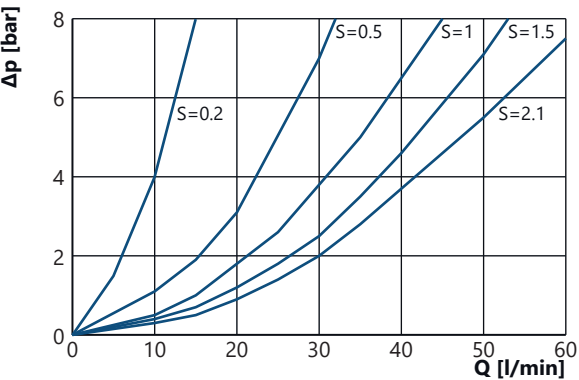
Setting diagram for clearance (S/Q) G 1/2", G 3/4"



Pressure loss characteristic curve ($\Delta p/Q$) from 1 to 2 RBS1-14

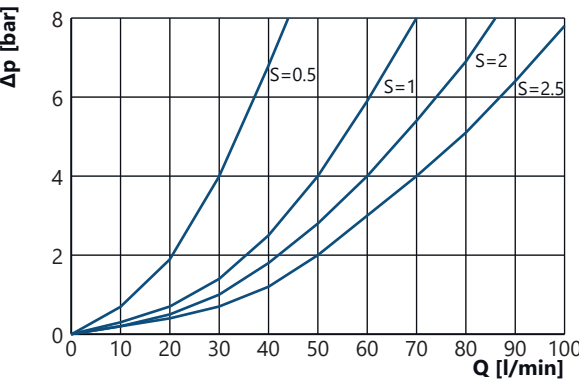


Pressure loss characteristic curve ($\Delta p/Q$) from 1 to 2 RBS1-38, RBS1-M18

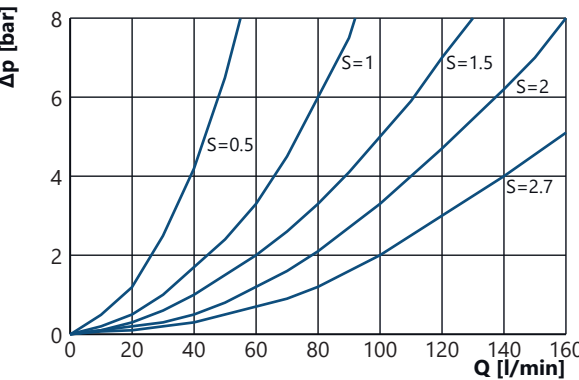


Characteristic curves

Pressure loss characteristic curve ($\Delta p/Q$) from 1 to 2 RBS1-12



Pressure loss characteristic curve ($\Delta p/Q$) from 1 to 2 RBS1-34

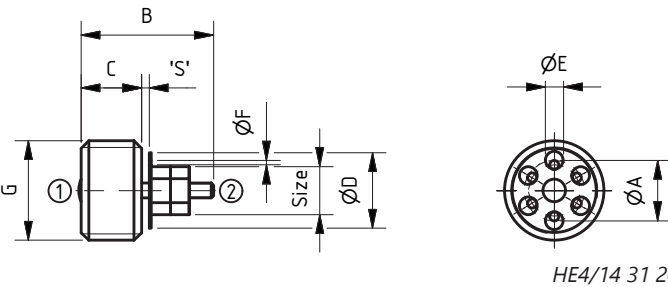


Measurement conditions

Oil: HLP 32, temperature: 40 °C (~32 cSt).
Higher viscosities change the characteristic curves.

Dimensions

Hose burst valve
RBS1



Size G	A Ø [mm]	B [mm]	C [mm]	D Ø [mm]	E Ø [mm]	F Ø [mm]	Weight [g]	Size	Assembly [Nm]
G 1/4"	8.5	17.5	8	9.5	2.4	0.6-2	5	5.5	2
G 3/8"	10.5	23	10.5	12.5	3.5	0.6-2	10	5.5	3
G 1/2"	13	25	12	15	4.5	0.6-2	20	7	4
G 3/4"	16	30.5	17	18.5	6	0.6-2	42	7	10
M18 x 1.5	10.5	23	10.5	12.5	3.5	0.6-2	15	5.5	3.5

NOTE Dimensions for the port patterns are available in section 11 "General information" under the "Port Patterns" heading at www.weber-hydraulik.com.

Type code

RBS1	-		-		-	
Hose burst valve		Size	Flow rate [l/min]	Orifice diameter F Ø [mm]		
		14	G 1/4"	4 - 25	0	No setting
		38	G 3/8"	6 - 50	0.6-2.0	Selectable, increasing by 0.1
		12	G 1/2"	16 - 80		
		34	G 3/4"	25 - 150		
					Clearance S [mm]	
					No setting	0
					Selectable according to setting diagram	

Accessories and further information*Accessories/spare parts***Article:****Material number:**

Hexagonal in-line body G 1/2"	138.0010
Hexagonal in-line body G 3/8"	138.0009
Hexagonal in-line body G 1/4"	138.0008
Hexagonal in-line body G 3/4"	138.0011
Mounting tool W1 for RBS1-14	139.0001
Mounting tool W3 for RBS1-38 and RBS1-M18	139.0003
Mounting tool W4 for RBS1-12	139.0004
Mounting tool W6 for RBS1-34	139.0006

NOTE Other casings are available on request.

Operating manual

Information regarding assembly, commissioning and maintenance is available in section 11, "**General information**" in the "**General Operating Manual**" category or on request.

Standard program



WEBER-HYDRAULIK GMBH
Am Wollmatinger Ried 12
78479 Reichenau, Germany
Phone: +49 7531 9748-0

www.weber-hydraulik.com
info.de-k@weber-hydraulik.com

Subject to changes