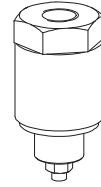


Pipe failure valve
For installation in pipes

- $Q_{max} = 30 \text{ l/min}$
- $p_{max} = 210 \text{ bar}$

NG10

DESCRIPTION

Pipe failure valve NG10 for line mounting. The valve is screwed directly into the component which has to be protected. Thread size for port A: male G1/2". For port P: female G3/8" for type RBSG1012 or female G1/2" for type RBSW1012. This pipe failure valve is available in a straight version and in a 90° version. Housing and banjo bolt are zinc coated.

FUNCTION

Fluid can pass the valve in both flow directions. In flow direction A to P the valve closes if the amount of flow exceeds the adjusted value. Amount of flow which causes the valve to close (cut-off flow) can be adjusted by means of an adjustment screw. The valve is set at 20–25 l/min (at the factory). Turning the adjustment screw clockwise reduces the cut-off flow.

APPLICATION

Pipe failure valves are used where loads must be protected against uncontrolled lowering after a line rupture, for example in scissor lifts or leveling platforms.

Caution:

Pipe failure valves are not suitable for applications where pressure and flow changes rapidly under normal working conditions.

CONTENT

GENERAL SPECIFICATIONS.....	1
HYDRAULIC SPECIFICATIONS.....	1
SYMBOLS.....	1
CHARACTERISTICS.....	2
DIMENSIONS.....	2
PARTS LIST.....	2

TYPE CODE

		RBS	<input type="checkbox"/>	10	12	#	<input type="checkbox"/>
Pipe failure valve							
Straight type	<input type="checkbox"/>						
90° type	<input type="checkbox"/>						
Corresponding to NG10							
Screw-in thread G1/2"							
Design-Index (subject to change)							

GENERAL SPECIFICATIONS

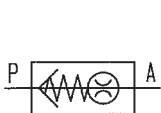
Description	Pipe failure valve
Construction	Threaded body
Mounting	Threaded port, line mounting
Connections	Threaded port male G1/2"
	Threaded port female G3/8" (RBSG1012)
	Threaded port female G1/2" (RBSW1012)
Ambient temperature	-20...+50°C
Mounting position	any
Weight RBSG1012	m = 0,26 kg
RBSW1012	m = 0,38 kg

HYDRAULIC SPECIFICATIONS

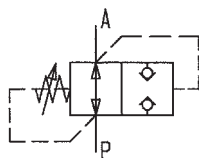
Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 20/18/14 (Required filtration grade $\beta_{10...25} \geq 75$) refer to data sheet 1.0-50/2
Viscosity range	12mm ² /s...320mm ² /s
Fluid temperature	-20...+70°C
Peak pressure	$p_{max} = 210 \text{ bar}$
Max. volume flow	P → A: $Q_{max} = 30 \text{ l/min}$ A → P: $Q_{max} = 35 \text{ l/min}$

SYMBOLS

simplified



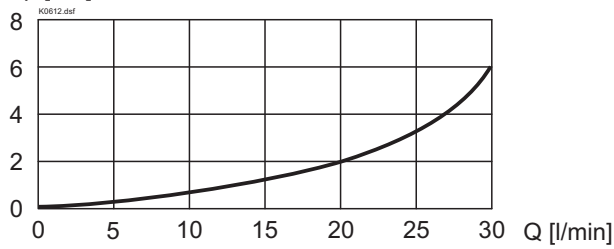
detailed



CHARACTERISTICS Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$

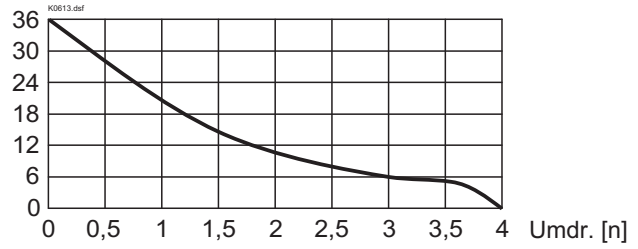
$\Delta p = f(Q)$ Pressure drop characteristic $P \rightarrow A$

Δp [bar]



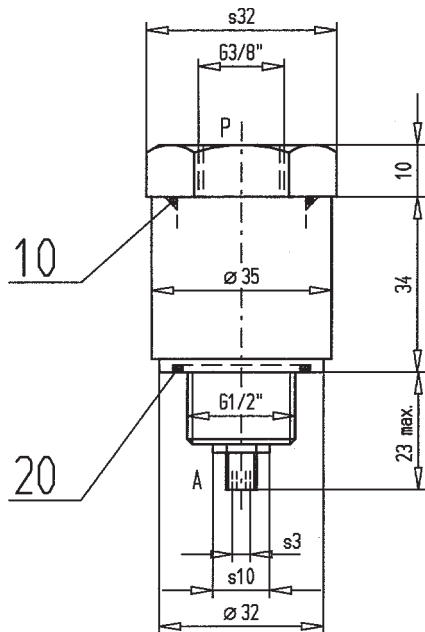
$Q = f(n)$ Cut-off volume flow characteristic $A \rightarrow P$

Q [l/min]

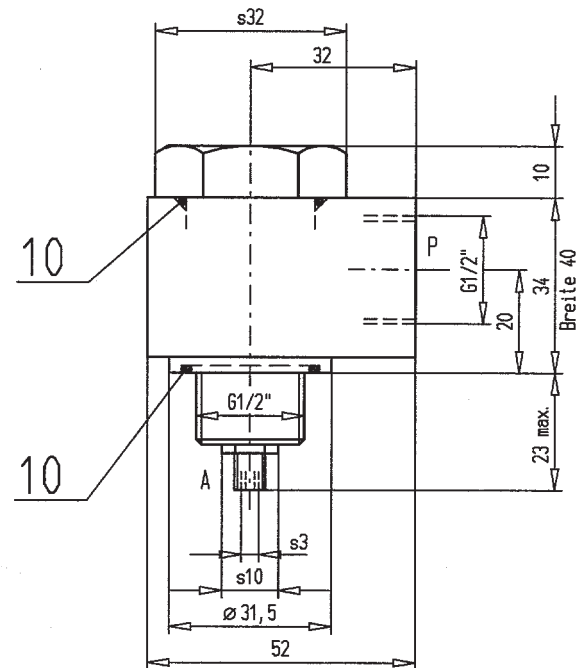


DIMENSIONS

RBSG1012



RBSW1012



PARTS LIST

Position	Article	Description
10	160.2236	O-ring ID 23,52 x 1,78
20	160.2253	O-ring ID 25,00 x 2,00

Technical explanation see data sheet 1.0-100