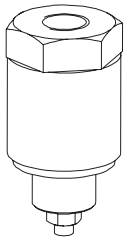
Pipe failure valve
For installation in pipes
- **Q_{max} = 30 l/min**
- **p_{max} = 210 bar**

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 exemple in scissor lifts or leveling platforms.

Caution:
Pipe failure valves are nor suitable for applications where pressure and flow changes rapidly under normal working conditions.

TYPE CODE

RBS ☐ 10 12 # ☐

Pipe failure valve	
Straight execution	G
Angled execution	W
Nominal size 10	
Threaded connection 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

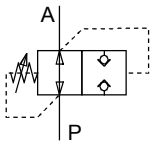
HYDRAULIC SPECIFICATIONS

Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 20/18/14 (Required filtration grade ß 10...25≥75) refer to data sheet 1.0-50/2
Viscosity range	12mm²/s...320mm²/s
Fluid temperature	-20...+70°C
Peak pressure	p_{max} = 210 bar
Max. volume flow	P → A: Q_{max} = 30 l/min
	A → P: Q_{max} = 35 l/min

SYMBOLS

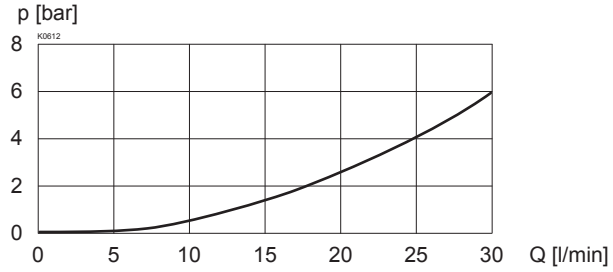
simplified

detailed

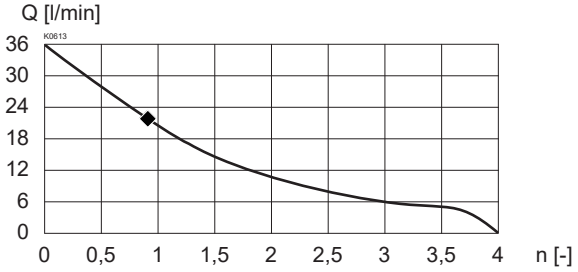


CHARACTERISTICS Oil viscosity υ = 30 mm²/s

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

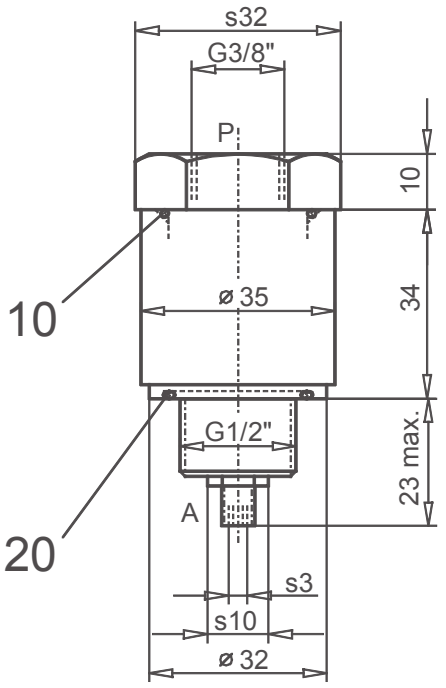


Q = f (n) Cut-off volume flow characteristic
A → P

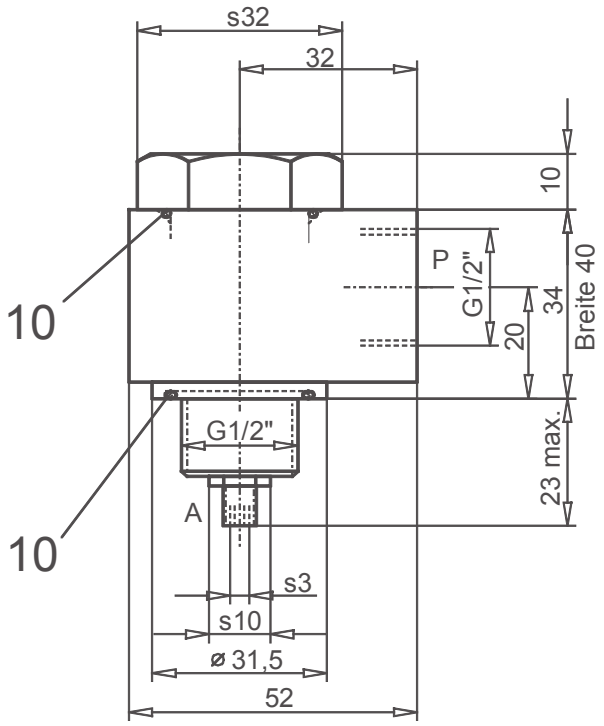


DIMENSIONS

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