

# RS 16/32 Pipe rupture valve

6.1.1E

P 1/2

#### 1. General description

- prevents uncontrolled movement of the cylinder if a pipe or a hose burst occurs
- settable closing flow

#### 2. Advantages of Beringer's pipe rupture valve

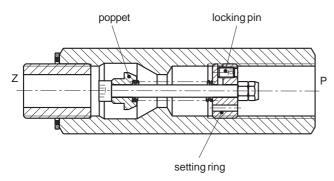
- either almost leakfree closing or slow lowering
- minimal spatial requirement thanks to compact design

#### 3. Application

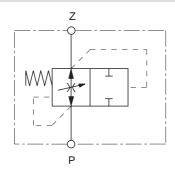
- for protecting hydraulic consumers
- for direct installation in cylinders

#### 4. Functional description, sectional view

- 4.1 If, when the oil is flowing from Z to P, the pressure difference in the valve exceeds a value that corresponds to the preloading pressure (approx. 1 bar), the poppet is forced into the conical seat and seals the opening passage.
- 4.2 The pipe rupture valve is opened again automatically when the pressure at port P is higher than that at port Z.



### 5. Symbol



#### 6. Characteristics

(Please contact Beringer if machinery is required for use beyond these tolerances)

### 6.1 General:

Type: direct operated seat valve
 Mounting method: screw-type cartridge
 Ports: P, Z see point 10 any

Flow direction: Pè Z free flow Zè P closina d

 $\begin{tabular}{lll} Z\ \`{\rm e} & P & closing direction \\ Weight: & see point 10 \end{tabular}$ 



#### 6.2 Hydraulic characteristic:

Size: 16 / 32 Min. settable

closing flow: 10 l/min / 100 l/min

Max. settable closing flow: 130 l/min / 400 l/min

Max. working pressure: up to 480 bar.
Hydraulic medium: mineral oil per DIN 51524 and

DIN 51525 (HL/HLP), inquire about other media

Hydraulic medium temperature range: -20°C...+80°C,

#### 7. Safety instructions

- This valve must only be used for the purpose for which it has been designed.
- It must only be adjusted by trained staff.
- The hydraulic system must be depressurized and checked before the valve is dissasembled.
- The valve must not be opened without the express permission of the manufacturer.

#### 8. Assembly instructions

- Observe all port designations.
- Protect seals and flange surfaces against becoming damaged.
- Observe the tightening torques (see dimension diagram).
- Bleed the hydraulic system before putting it into operation.

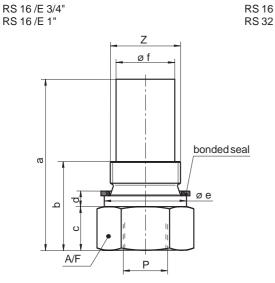
### 9. Adjustment instructions

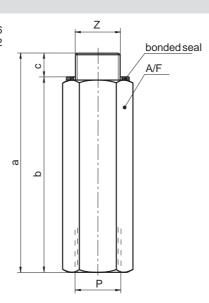
- 1. Realease the locking pin.
- 2. Unscrew the setting ring until the poppet sits on the seat.
- 3. Set the flow acc. to the setting diagrams (see section 11).
- 4. Tighten the locking pin to the specified torque (see section 10).

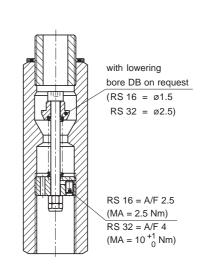


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### 10. Dimension diagram

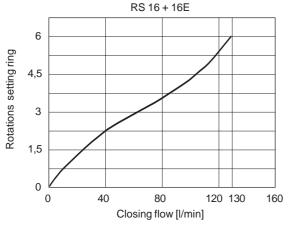


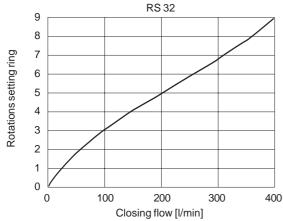




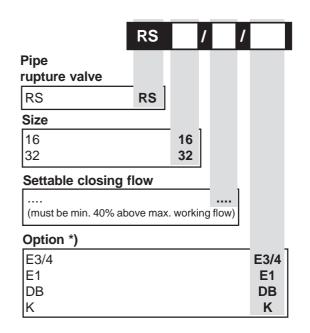
Туре	max. closing	Р	Z	A/F	а	b	С	d	е	f	bonded seal	weight
	flow [l/min]											[kg]
RS 16	130	G3/4	G3/4	36	141	127	14	-	-	-	28.7 x 37.0 x 2.0	0.8
RS 32	400	G11/2	G11/2	70	253	233	20	-	-	-	48.7 x 59.0 x 3.0	5.5
RS 16/E3/4"	130	G3/4	G11/4	50	110	57	28	10	ø49	ø35	42.7 x 53.0 x 3.0	0.8
RS 16/E 1"	130	G1	G11/4	50	110	57	28	10	ø49	ø35	42.7 x 53.0 x 3.0	8.0

## 11. Setting diagrams measured at 33 mm<sup>2</sup>/s





### 12. Type code



\*) E3/4 = threaded connection G3/4" E1 = threaded connection G1"

DB = lowering bore in the closing poppet

K = copper ring instead of bonded seal for HFD fluids