

## RSE and RSG Pipe rupture valves

**6.1.2E**  
P 1/2

### 1. General description

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

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

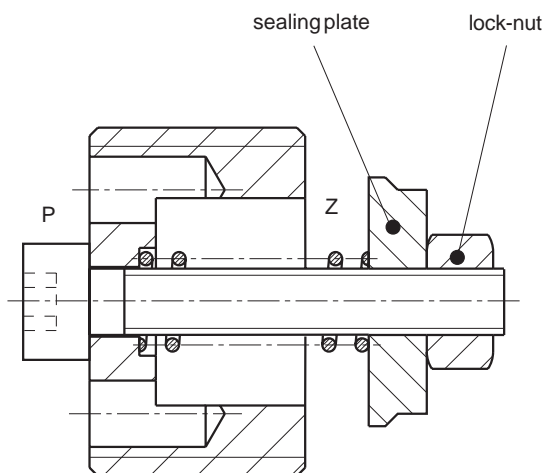
- simple adjustment of flow rates
- minimal spatial requirement thanks to compact design.

### 3. Application

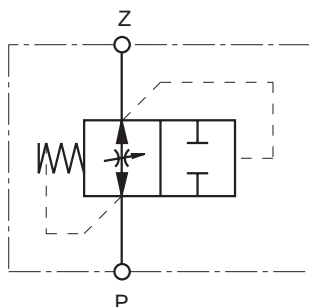
- for protecting hydraulic consumers
- for direct installation in cylinders

### 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 plate is forced against the valve seat and seals the opening passage leakfree.
- 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: plate valve
- Mounting method: screw-type cartridge
- Ports: P, Z see point 10
- Mounting position: any
- Weight: see point 10

#### 6.2 Hydraulic characteristics:

- Size: 1/4, 3/8, 1/2, 18x1,5
- Min. settable closing flow: 3 l/min (G1/4")
- Max. settable closing flow: 75 l/min (G1/2")
- Max. working pressure: 400 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, inquire about other temperatures
- Viscosity range: 2.8 mm<sup>2</sup>/s up to 380 mm<sup>2</sup>/s
- Filtering: NAS 1638 class 9, β10 ≥ 75.

### 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 disassembled.
- The valve must not be opened without the express permission of the manufacturer.

### 8. Assembly instructions

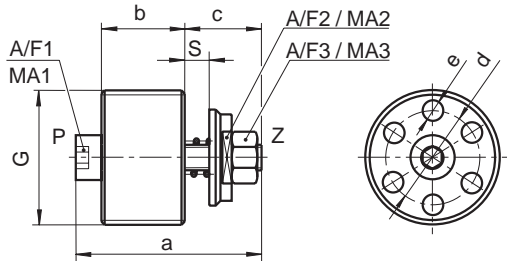
- Observe all port designations.
- Observe the tightening torques (see dimension diagram).
- Bleed the hydraulic system before putting it into operation.

### 9. Adjustment instructions

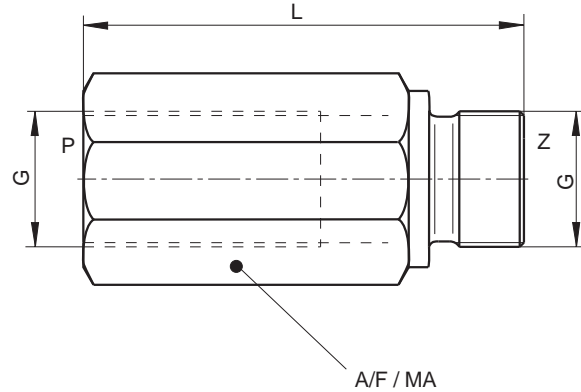
1. Screw in the sealing plate until it sits on the seat.
2. Set the flow acc. to the setting diagrams (see section 11).
3. Tighten the lock-nut to the specified torque (see section 10).

**10. Dimension diagram**

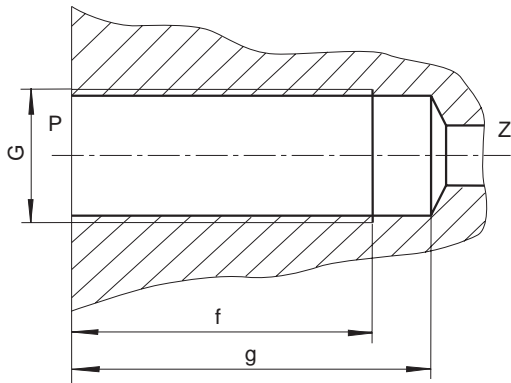
10.1 RSE



10.2 RSG



10.3 Location hole

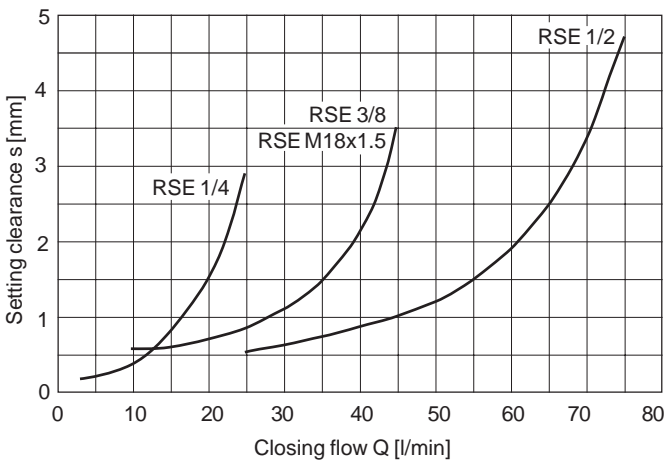


Size	A/F	A/F1	A/F2	A/F3	MA (Nm)	MA1 (Nm)	MA2 (Nm)	MA3 (Nm)
1/4	19	2.5	8	5.5	20	2.1	1.5	1.5
3/8	22	2.5	10	5.5	35	2.1	1.5	1.5
1/2	27	3	12	7	60	4.9	3.5	3.5
M18x1.5	22	2.5	10	5.5	40	2.1	1.5	1.5

Size	G	a	b	c	d	e	f	g	L	Weight (kg)	
										RSE	RSG
1/4	G1/4	21	9	9	8.2	2.5	30	36	58	0.006	0.080
3/8	G3/8	23	11	9	10	3.5	32	40	58	0.013	0.115
1/2	G1/2	29	13	12	13.5	4	35	45	65	0.022	0.195
18x1.5	M18x1.5	23	11	9	10	3.5	32	40	58	0.013	0.115

**11. Setting diagram**

measured at 70 mm<sup>2</sup>/s



**12. Type code**

