

***Adjusting Device With Magnetically
Operated Indication Of Function
For Two-Line Metering Devices
Types VSG***

Adjusting Device With Magnetically Operated Indication Of Function for two-line lubricant metering devices types VSG

- Patent Pending -

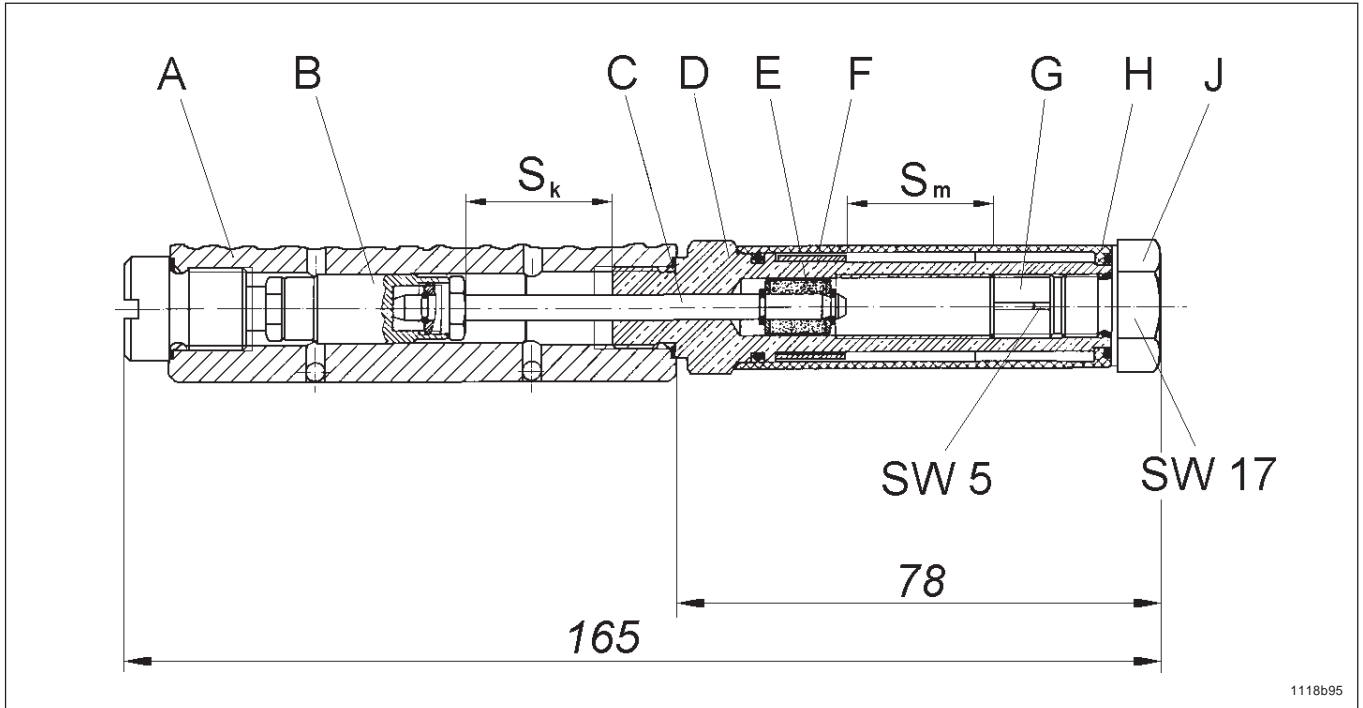


Fig.: Adjusting device with magnetically operated indication of function

A: metering device body VSG	D: adjusting sleeve	G: adjusting screw
B: Piston	E: magnet	H: protective sleeve
C: Piston pin	F: control ring	J: closure plug

1 Theory of operation (Figure)

- The piston movement is transferred to the magnet (E) via piston pin (C)
- The magnetic field acts on the control ring (F) with the result that its strike indicates the movement of the piston $s_k = s_m$
- The lubricant output is adjusted by changing the piston stroke s_k by means of adjusting screw (G)

2 Field of application

- In all two-line lubricant metering devices types VSG.
- Specially suitable for being used under severe conditions, such as
 - high temperature
 - aggressive dispensing materials
 - adverse ambient influences

3 Benefits vs conventional adjusting devices

- free of maintenance
- design without dynamic seals
- suitable for high temperature ranges (up to 120 °C)
- insensitive to aggressive dispensing materials
- high operating reliability under extremely adverse ambient conditions
- water and dust proof
- control ring is protected against contamination while the lubricant output is adjusted

4 Technical Data

Lubricant output:	Q = 0 - 2,3 cm ³ / stroke infinitely adjustable (see Operating Instruction)
Operating pressure:	p _{max} = 400 bar
Operating temperature:	t _{max} = 120 °C

Subject to change without notice

5 Adjustment of lubricant output

Before the lubricant output is adjusted, the following instructions have to be noted:

- Adjust the lubricant output only when the system is relieved
- When the closure plug is disassembled, the protective sleeve remains in its position
- General factory setting:
 lubricant output $Q=Q_{\max} = 2,3 \text{ cm}^3 / \text{stroke}$

- Remove the closure plug
 - Adjust the lubricant output by turning the adjusting screw
- Adjusting parameter:
 1 revolution \Leftrightarrow changes the piston stroke by 1 mm \Leftrightarrow which equates to a lubricant output of 0.1 cm^3

Adjustment of the lubricant output according to the following diagramm:

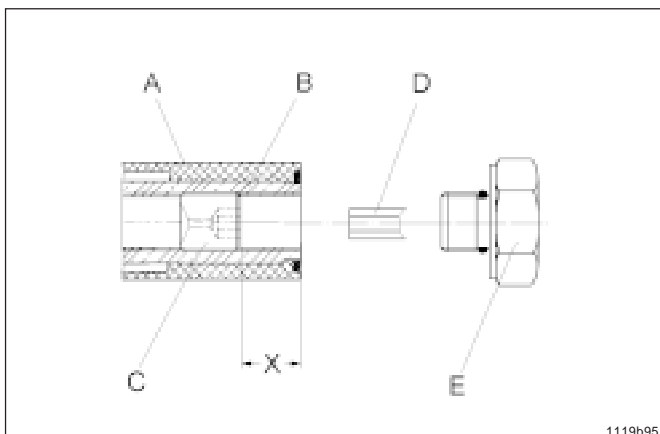
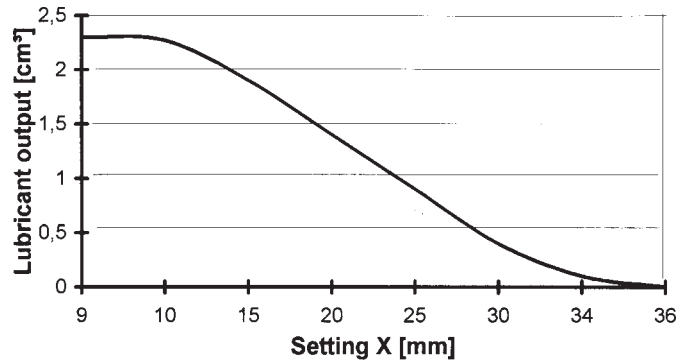


Fig: Adjustment of the lubricant output

- A: Protective sleeve
- B: Adjusting sleeve
- C: Adjusting screw
- D: Hexagon socket SW 5
- E: Closure plug
- X: Setting

6 Maintenance

The adjusting device with magnetically operated function indication is generally free of maintenance.

If the control ring fails to move, there may be the following faults which can be corrected as follows:

- Blockage in the bearing or malfunction in the two-line system, e.g. pump does not deliver, broken line
- Blockage in the metering device or line system

Remedy:

Inspect the bearing and the two-line system (see Description of Lubrication System)

- Adjusting screw is set to the lubricant output of 0 cm³

Remedy:

check the setting of the adjusting screw (see Figure and Chart)

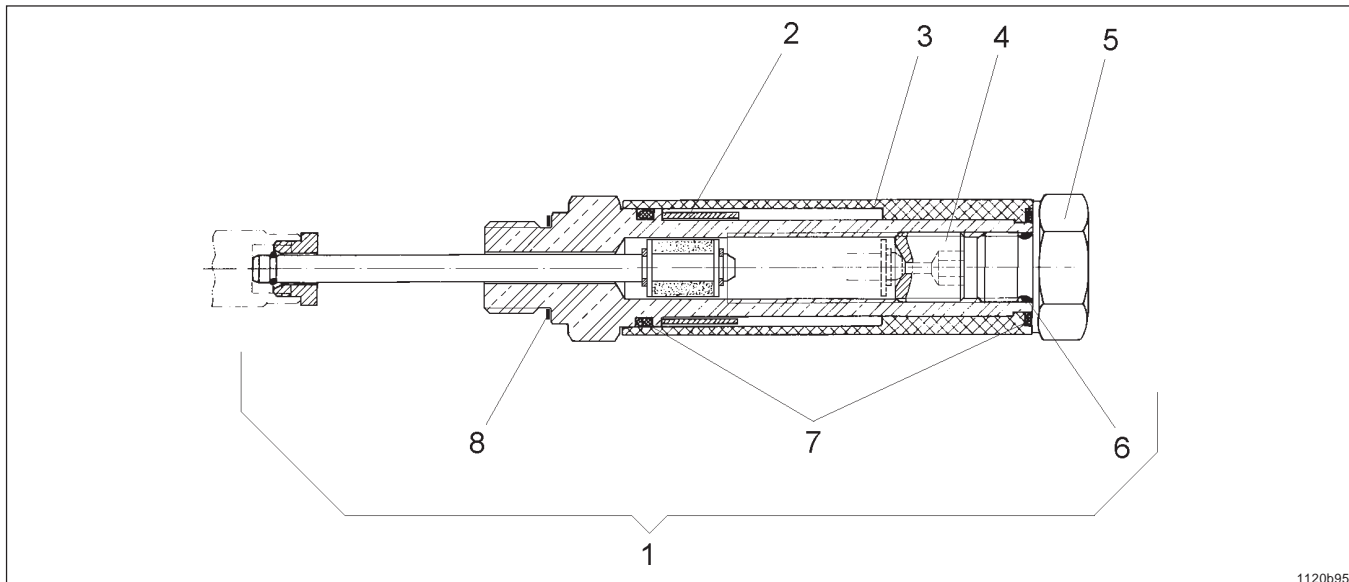
- Defective adjusting device

Note: In the case of a defective adjusting device, the operation of the lubricant metering device will not be affected

Remedy:

Check the adjusting device, control ring, protective sleeve and o-rings for damage.
Replace parts, if necessary. Dirty parts must be thoroughly cleaned.

7 Spare Parts List



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Fig. : Spare Parts

Item	Description	Qty	Part Number
1	adjusting device MR, assy	1	520-32069-1
2	control ring	1	420-24184-1
3	protective sleeve	1	420-24360-1
4	adjusting screw	1	420-24192-1
5	closure plug M10 x 1	1	303-19665-1
6	O-ring 7 x 1,5	1	219-12222-4
7	O-ring 13 x 1,5	2	219-14138-3
8	Sealing ring Cu 13,5 x16 x1	1	306-17827-1