# 1 Noise damper

For the RS350S controller a noise damper is optional. Assembly can be carried out in the factory or afterwards on site. The same noise damper is used for all valve sizes.

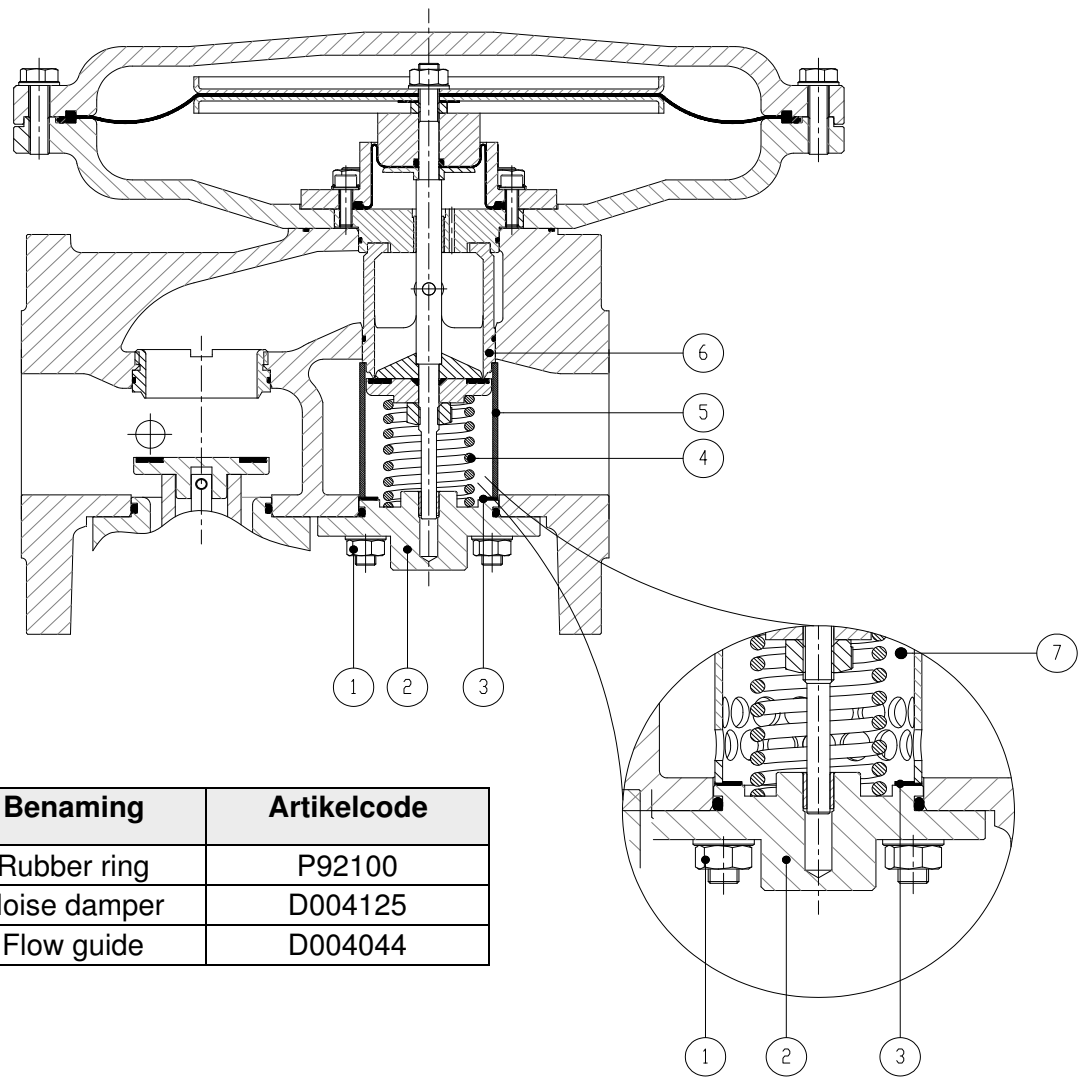
After the noise damper has been fitted, it should be noted that there will be a reduction in capacity of approximately 3.5 %. An average noise reduction of 8 dB(A) is possible. This depends on the practical situation (station construction).

### 1.1 Installing a noise damper for inserts with a valve size of 17.5 mm, 22.5 mm and 27.5 mm.

Remove the four bolts (1), see figure 1, which allow the valve cover (2), closing spring (4) and flow guide (7) to come out of the regulator. Replace the flow guide (7) with the noise damper (5). If required, remove the old rubber ring (3), degrease the valve cover and fit a new rubber ring (3). Place the closing spring (4) on the valve cap (2) and position the noise damper (5) on the rubber ring (3) and slide it into the regulator, placing the noise damper around the insert (6). Screw the four bolts (1) crosswise.

### 1.1 Installing a noise damper for inserts with a valve size of 37.5 mm and 42.5 mm

Remove the four bolts (1), see figure 1, which allow the valve cover (2) and the closing spring (4) to be removed. Degrease the valve cover on the inside (adhesive surface above the O-ring). Stick the rubber ring (3) concentrically on this surface. Place the closing spring (4) on the valve cover. Position the noise damper (5) on the rubber ring (3) and slide it into the regulator, placing the noise damper (5) around the insert (6). Screw the four nuts (1) crosswise.




| Pos.nr. | Benaming | Artikelcode |
|---|---|---|
| 3 | Rubber ring | P92100 |
| 5 | Noise damper | D004125 |
| 7 | Flow guide | D004044 |

*Figure 1: Assembled noise damper (magnified flow guide instead of noise damper).*

# 2 Flow guide

RS350S regulators with insert valve sizes 17,5 mm, 22,5 mm and 27,5 mm are fitted with a flow guide. The 37,5 mm and 42,5 mm insert size valves are not fitted with a flow guide as the flow guide will adversely affect performance in these configurations. This should be taken into account when exchanging inserts with a different valve size than the insert already fitted. The following list describes the procedures to be followed:

- Insert change between 17.5 mm, 22.5 mm and 27.5 mm can be carried out without making any changes to the already mounted flow guide
- Insert change between 37.5 mm and 42.5 mm can be carried out without making any changes to the already mounted flow guide
- When changing from a 17.5 mm, 22.5 mm or 27.5 mm insert to a 37.5 or 42.5 mm insert, the flow guide assy* must be removed (see 2.1).
- When changing from a 37.5 or 42.5 mm insert to a 17.5, 22.5 or 27.5 mm insert, a flow guide assy* must be fitted (see 2.2).

* The flow guide assy is composed of a flow guide and a self-adhesive rubber ring.

## 2.1 Removal of the flow guide

Remove the four bolts (1), see figure 1, which allow the valve cover (2) with locking spring (4) and the flow guide (7) to be removed from the regulator. Then remove the rubber ring (3) from the valve cover (2). Place the prescribed closing spring (4), belonging to the 37.5 mm and 42.5 mm insert, on the valve cover (2) and push it upwards into the regulator. Screw on the four bolts (1) crosswise.

## 2.1 Installing the flow guide

Remove the valve cap (2) and the closing spring (4), see figure 1, by unscrewing the four bolts (1). Degrease the valve cover on the inside (adhesive area above the O-ring). Stick the rubber ring (3) concentrically on this surface. Place the prescribed closing spring (4), belonging to the 17.5 mm, 22.5 mm and 27.5 mm insert, on the valve cover. Position the flow guide (7) on the rubber ring (3) with the holes of the flow guide on the valve cover side. Slide the assembly into the regulator, placing the flow guide around the insert (6). Screw on the four nuts (1) crosswise.

For the flow guide to work properly, the hole pattern must be positioned close to the valve cover.

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