

QUICK GUIDE - SESAME SENSOR HOUSING

Introduction

This Quick Guide gives instructions on how to mount the Sesame Sensor Housing on an existing Sesame valve Type N (valve head with pneumatic actuator).

The Sensor Housing has two purposes, which can be used individually or together:

1. Allow mounting of up to two sensors (not included) to provide electrical signals as to whether the valve is in Clean, Sample or Off position
2. Provide the possibility to mechanically limit the stroke length of the Clean and/or the Sample piston (flow control).

Preparation of Sensor Housing and Valve Head:



Valve head must be dismantled from valve body for easy fitting of the Sensor Housing.

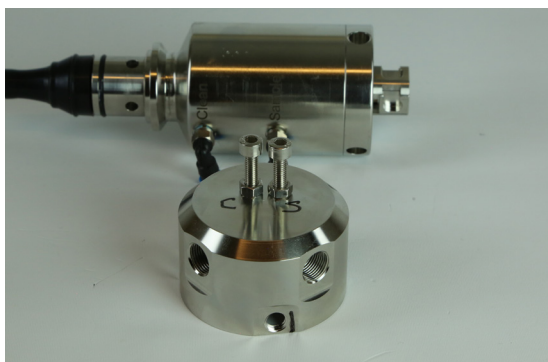
1. Remove the valve head from the valve body.
2. Mount the Sensor Housing on the end of the actuator and rotate it gently until the piston ends slide into the square bottom hole inside the Sensor Housing.

Orientation of Sensor Housing:



3. Hold the actuator firmly by one hand and turn the Sensor Housing by the other hand until the 3 radial holes in the actuator are aligned with the corresponding threaded holes in the Sensor Housing.
4. Mark the relative position of the Sensor Housing and the actuator using a speed marker.

Stroke limitation screws:



NB - Make sure the screws do not protrude into the square hole.

5. Lift off the Sensor Housing and maintain its orientation with respect to the actuator while performing point 6
6. Determine visually which stroke limitation screw will influence the clean piston (marked Clean) and mark the Sensor Housing correspondingly (f. inst. "C") with a speed marker
7. Similarly mark on the Sensor Housing the other stroke limitation screw (f. inst. "S" for sample)
8. If sensors are to be fitted continue with the next point 9; otherwise jump to point 12. Inserts fill out the void caused by the cut-outs made for the handle.

Inserts for sensors:

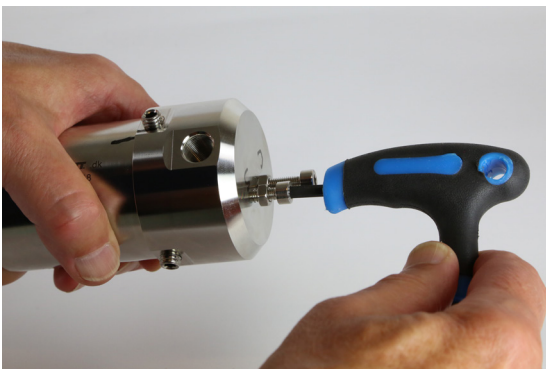


NB - Inserts come in 2 slightly different sizes; one for the clean piston and one for the sample piston

NB - Although 2 cut-outs in each piston only one insert per piston is needed - in the cut-out nearest to the sensor

9. Place the steel inserts in the cut-out on the end of the Clean piston (marked Clean) pointing towards the Clean sensor
10. Place the steel inserts in the cut-out on the end of the Sample piston (no marking) pointing towards the Sample sensor
11. Replace the Sensor Housing on the actuator, taking into account the marked position against the actuator

Adjusting the stroke limitation

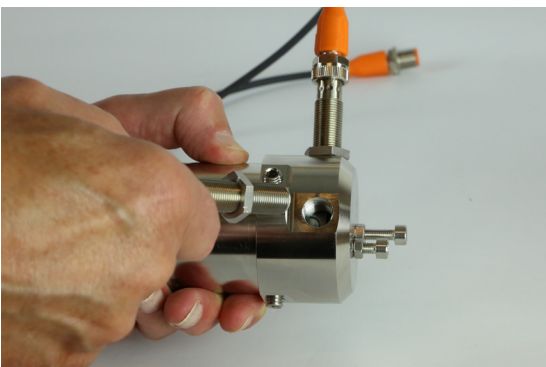


NB - Only adjust the screw when the actuator is not pressurized

Both screws are adjusted in the same way

12. Screw the stroke limitation screw fully in until contact with the piston
13. Unscrew the screw until the required stroke length is obtained
14. Counter-tighten the lock nut to secure the screw in place.

Adjusting the sensors:



15. Screw the sensor fully in until contact with the piston
16. Unscrew the sensor a little (typically ½ to ¾ turn) to avoid metal contact with moving pistons
17. Make sure to still have electrical signal from the sensor
18. Tighten the lock nut to secure the sensor in position
19. Repeat 15 to 18 for the other sensor

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