

INSTALLATION INSTRUCTIONS FOR KOENIG CHECK VALVE®

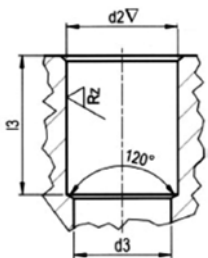


Fig. 1

Before Installation

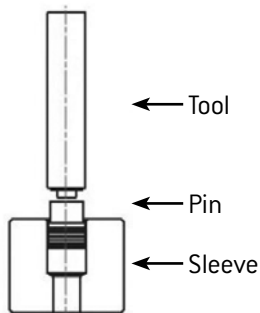


Fig. 2

After Installation

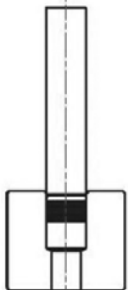


Fig. 3

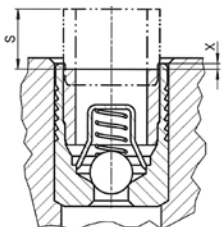


Fig. 4 (Reverse Flow)

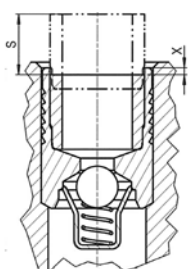


Fig. 5 (Forward Flow)

DRILLED HOLE

- The drilled hole (Fig. 1) must be within the tolerances shown on the preceding dimensional sheets.
- The counter-bored hole (d2) must be properly sized for the through hole (d3) according to the dimensional sheets.
- Hole must be round within 0.05 mm.
- With hard materials (HB > 190) the bore roughness should be from Rz = 10 – 30 µm for best results.
- Longitudinal rifles and spiral grooves should be avoided.
- The bore must be free of oil, grease and chips.
- Additional reaming operation on the hole is not required.

SETTING PROCEDURE

- With the pin facing out, the KOENIG CHECK VALVE® is inserted in the counter-bored hole (Fig. 2). The top surface of the sleeve should not be above the top surface of the base material.
- With only a slight or no counter-bore, the base of the sleeve must be adequately supported during installation.
- The pin can now be pressed in until the top of the pin is flush or within 0.3 mm with the top surface of the sleeve. Corresponding approximate values for stroke S, as well as the dimension X can be referred from the dimensional sheets (Fig. 3, 4 and 5).

Note

- Use the proper size setting tool for the KOENIG CHECK VALVE® according to the data sheet.
- Clean/degrease the KOENIG CHECK VALVE® before installation; only spray cleaning with air drying is allowed (no dipping or vacuum drying).
- Sealants or locking compounds should not be applied on the KOENIG CHECK VALVE®.

PRESS

Small quantities or single parts can be installed with a hammer and setting tool. Installation can also be done with an arbor press. It is preferred to limit stroke travel when using a press because insertion force is difficult to control. The KOENIG CHECK VALVE® is also ideal for automated installation.