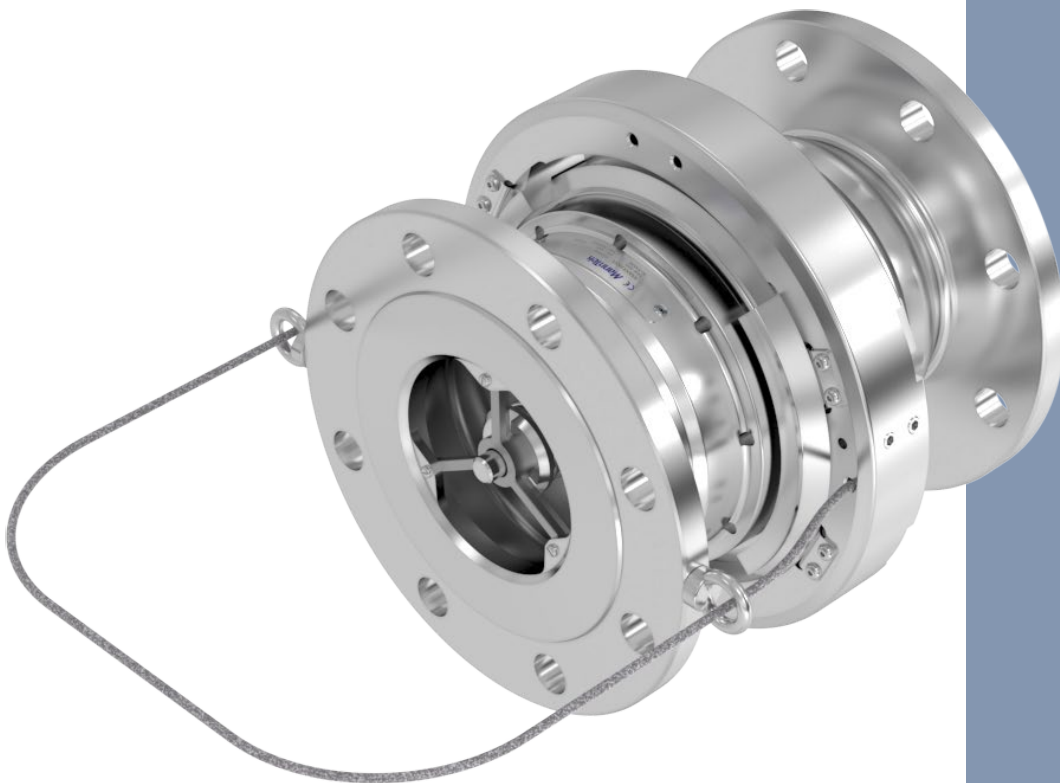
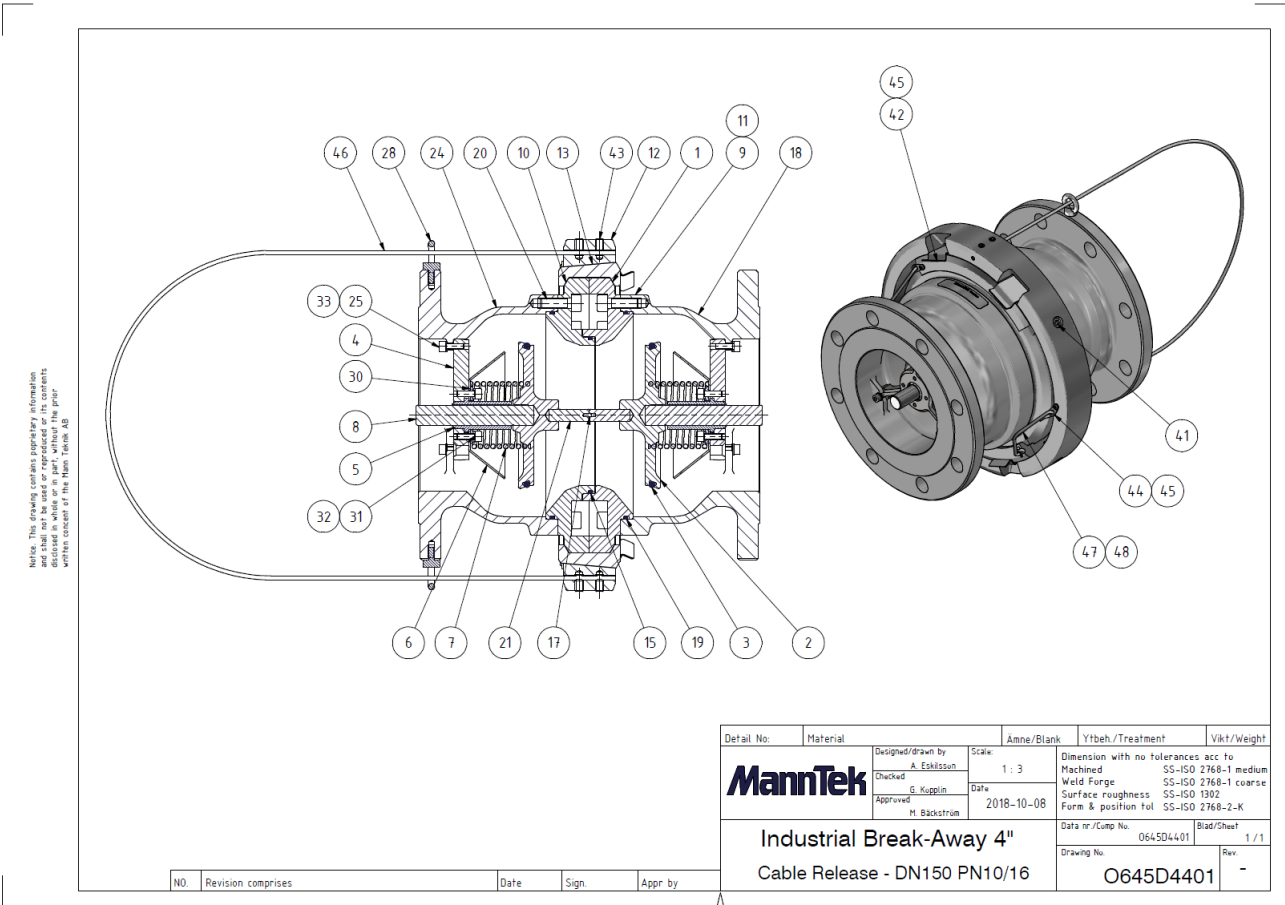


SBC Service instruction Cable Release – 4”



MATERIAL: AL, SS



- PARTS NEEDED FOR SERVICE:** O-ring kit (see p.3)
- TYPE OF CONNECTION:** Threaded and Flanged couplings have the same service instruction.
- PERFORM A SERVICE:** If leaking
According to application service plan, (see regular service p.3)
Change of media



PLEASE NOTE!
Make sure that you are using the right type of O-rings and seals for the media you are using. We are using a standard silicone based grease for standard media, for special media please contact us.

MAINTENANCE AND SERVICE INSTRUCTION



Always depressurise the system and rinse off the parts before beginning any maintenance work. Use protective goggles. Do not handle O-ring seals if the material appears charred, gummy or sticky.



Use tweezers and wear neoprene or PVC gloves. Do not touch adjacent parts with unprotected hands. Rinse off the parts once again before starting the “daily inspection”

DAILY INSPECTION

All couplings should be briefly inspected at the start of each day's operation. Check for dirt, seal damage and any obvious physical damage (such as impacts, etc.).

REGULAR SERVICE

Regular service interval is very much depending on local regulations and application conditions. If nothing else is specified and it is a new application with unknown parameters we recommend to make a first service after one year and decide then depending on the inspection result about further intervals.

The service procedure shall be as follows:

1. Exchange seals.
2. Replace worn or damaged components.

USE ONLY ORIGINAL MANNTEK SPARE PARTS FOR MAINTENANCE.

O-ring kit (O-O5-yy)

yy means the O-ring material key according to the product catalogue. You will find it also as the 6th to 9th sign in the serial number (e.g. O563Dxxyy).

AFTER RELEASE

When the coupling should go into service there is a danger that the fluid will spurt out. Special protective measures such as personal protective equipment must therefore be adopted. Always ensure the system is cleaned in a proper manner. After cleaning, remove any residue from the cleaning agent.



- a. **Wear suitable personal protective equipment.**
- b. **Make sure that the coupling is depressurized and empty.**
- c. **Clean the coupling before disassembly (use cleaning agent suitable for the pumped fluid).**



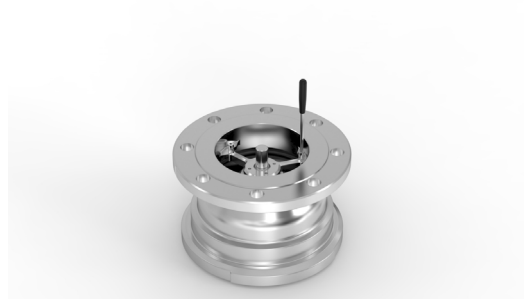
DISASSEMBLE

Unscrew the three screws that lock the spindle steering.



There is a distance pin in the piston protruding from the housing.

For disassembling a support plate with a hole in the middle will avoid any damage of the piston.



Tool: Allen Key No. 6

DISASSEMBLE

Press down the spindle steering and turn it free. Release it carefully



Piston guide is spring loaded. Risk of injury.

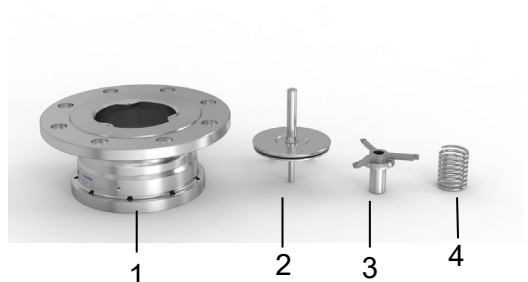
Using our special tool makes work easier and therefore increases safety.
Repeat the same procedure with the second half.



DETAIL PARTS AFTER DISASSEMBLING

Take out all the parts from the body

1. Body
2. Piston
3. Spindle steering, spring cap and bushing
4. Spring



PISTON O-RING

Replace the O-ring (pos.3) on the piston with a new greased O-ring. Have an equal pressure around the O-ring. The O-ring must be pressed into the groove on the piston.

Use only grease which is suitable for O-ring material.

For mounting the new O-ring use MannTek spare parts only. Special tools are helpful for a good fit of the O-ring.



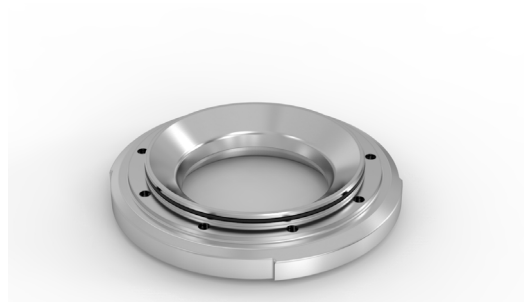
INNER BODY O-RING

Remove the nine screws and remove the coupling flange from the body.

Replace the O-ring (pos.19) on the body with a new greased O-ring. Use only grease which is suitable for the O-ring material.

Mount back the coupling flange to the body, use Loctite® 243 on the nine screws.

Tool: Allen Key 10 mm



MOUNTING PISTON

The piston is bigger in diameter than the three brackets for the piston guide.

Introduce the piston as shown. Put it into a relaxing position in the valve seat. Take care, the piston is sticking out on the other side.



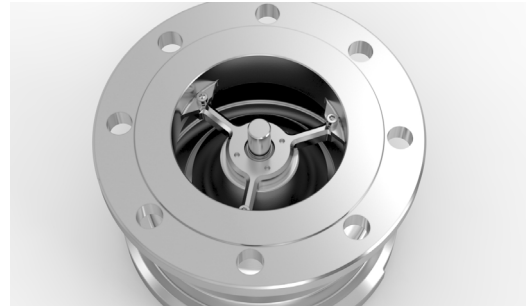
REASSEMBLE COUPLING HALVES

Fit the spring with spring cap and spindle steering. Press down the spindle steering and turn, to fix it in its position.



LOCKING THE SPINDLE STEERING

Fit the screws into the given holes in the body and fixate the spindle steering by mounting the three locking screws. Use Loctite® 243 for locking the screws.



OUTER BODY O-RING

Replace the O-ring (pos.15) on the body with a new greased O-ring.

Use only grease which is suitable for O-ring material.



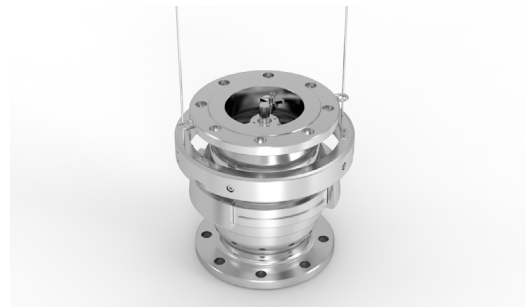
REASSEMBLE COUPLING

Set both halves onto each other and press them carefully together.



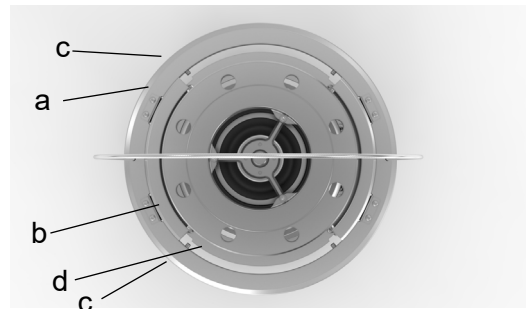
It is important that the bodies align to each other when pressing the halves together. Do it carefully, not to destroy the lip-seal.

Using a press and a fixture makes work easier



FIX THE CLAMPS AND RING

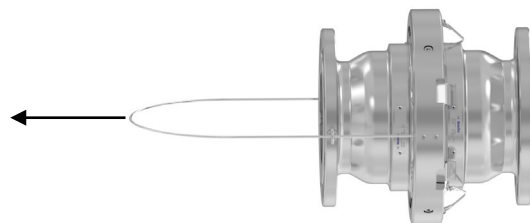
Place the clamps (b) over the coupling flanges smaller diameter (d) and put the ring (a) over the clamps to hold them in place. Make sure that the bolts (c) are placed on either side of the clamps. After the coupling is completely reassembled provide a pressure test according to test procedure on page 8.



NOTE WHEN INSTALLING



Direction of release



Loctite® is registered trademark of Henkel.

TEST PROCEDURE

After each service a pressure and tightness test of each coupling is mandatory. Test each half separately before you connect both halves with the breaking pins. The following test parameters are in accordance with EN12266, EN14432 and ISO5208:

Shell tightness test (water):	1,5 x Working Pressure (see 1.2)	stop time 1 min.
Seat tightness test (air):	6 bar +/- 1bar	stop time 15 s.
	0,1 x Working Pressure	stop time 15 s.

If a pressure test should be achieved for the coupling mounted in an assembly follow the respective test instructions for the equipment.

Approved couplings get stamped on the piston.

Number tested: 100%

STORAGE

Store coupling in a dry, dust free, dark place, in ambient temperature.