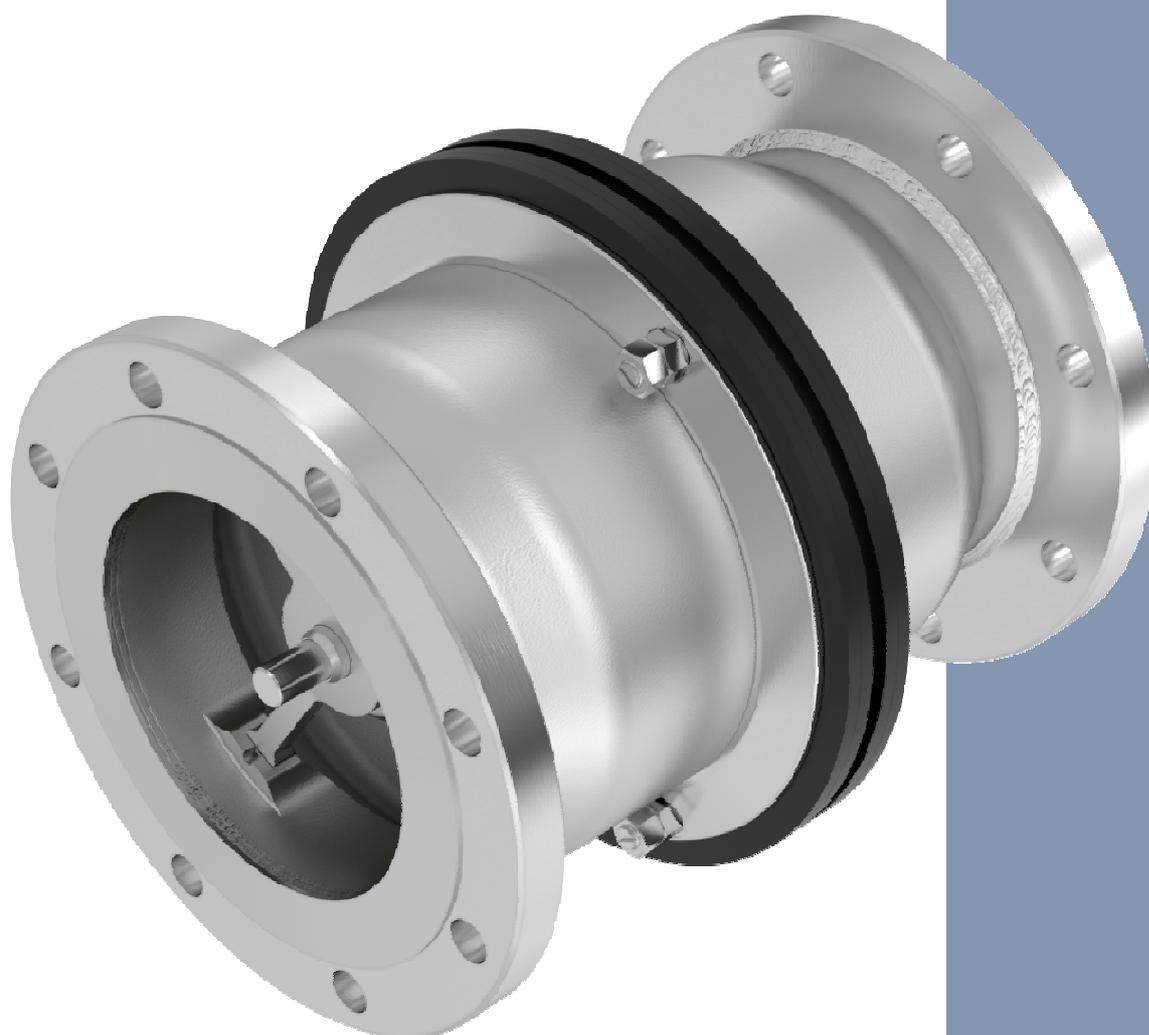
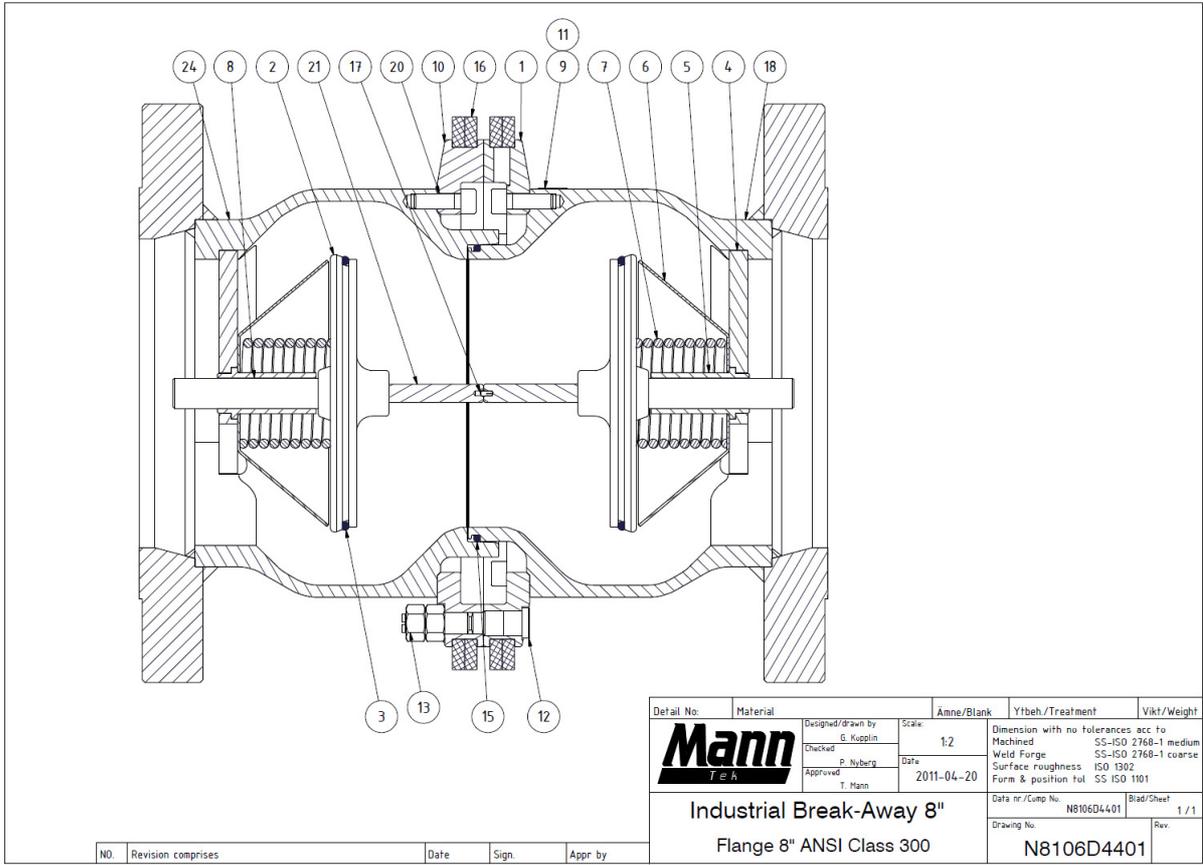


## SBC Service instruction 8"



MATERIAL: AL, BR, SS

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- PARTS NEEDED FOR SERVICE:** Spare part kit and O-ring kit (see p.3)
- TYPE OF CONNECTION:** Threaded and Flanged couplings have the same service instruction.
- PERFORM A SERVICE:**
  - If leaking
  - Every year
  - 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.

Spare part kit (S-N8-xx)

O-ring kit (O-N8-yy)

X means the size of the coupling according to the product catalogue. xx and yy means the material key according to the product catalogue. You will find it also as the 7<sup>th</sup> to 10<sup>th</sup> sign in the serial number (e.g. N8106Dxxyy).

## 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).



## VISUAL INSPECTION

Screw out the destroyed parts of the breaking bolts.

Check for dirt, seal damage and any obvious physical damage (such as impacts, etc.).



## DISASSEMBLE

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



**Piston guide is spring loaded. Risk of injury.**

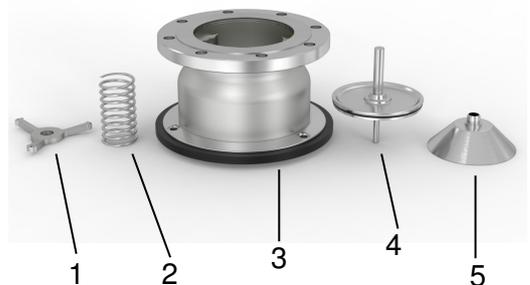
Using our special tool makes work easier and therefore increases safety.  
Repeat the same procedure with the second half.



## DETAIL PARTS AFTER DISASSEMBLING

Take out all the parts from the body

1. Spindle steering
2. Spring
3. Body
4. Piston
5. Spring cap and PTFE-bushing



## 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.



## 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 with PTFE-bushing. 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.

Mount back the flat seal.



## OUTER BODY O-RING

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

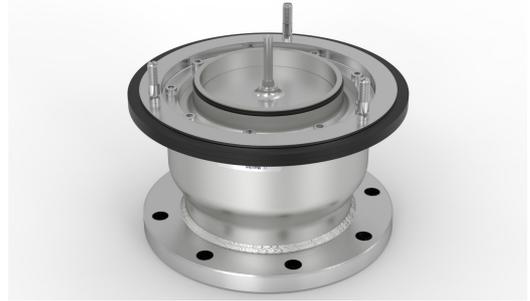
Use only grease which is suitable for O-ring material.



Loctite® is registered trademark of Henkel.

## BREAKING BOLTS

Screw in the bolts into the intended position.



## REASSEMBLE COUPLING

Set both halves onto each other and press them carefully together. The breaking pins should align to the bore holes in the second half.

Using a press makes work easier.



## FIX BREAKING BOLTS

Screw on the nuts by hand until stop when halves are pressed together. Fasten it a little bit with a wrench, max 45 degrees.

Screw on the second nut and lock the first one. Hold the first one with a wrench to avoid forces on the breaking bolt.

Tool: Standard Wrench 10mm



**Do not use force for tightening! Risk of destroying bolts.**

## READY TO USE

After the coupling is completely reassembled provide a pressure test according to test procedure on page 7.



## 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 but do not exceed our recommended maximum test pressure of the coupling which you will find in the following table. If testing with higher pressure is necessary please ask our sales department for a special test bolt kit.

Maximum Test Pressure depending on size and breaking force:

DN 25		DN 50		DN 65		DN 80		DN 100		DN 125		DN 150	
kN	bar	kN	bar	kN	bar	kN	bar	kN	bar	kN	bar	kN	bar
		4	10	7	10	11	10	18	10	28	10	40	10
		6	16	10	16	15	16	24	16	37	16	54	16
		7	20	12	20	18	20	28	20	45	20	65	20
		9	25	15	20	23	25	36	25	56	25	81	25
												92	25
3	16	12	50	20	30	30	32	48	35	75	40	108	40
3,2	16	13	37,5	22	37,5	33	37,5	52	37,5	81	37,5	117	37,5

Approved couplings get stamped on the piston.  
Number tested: 100%

## STORAGE

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