KANON
LOADING EQUIPMENT

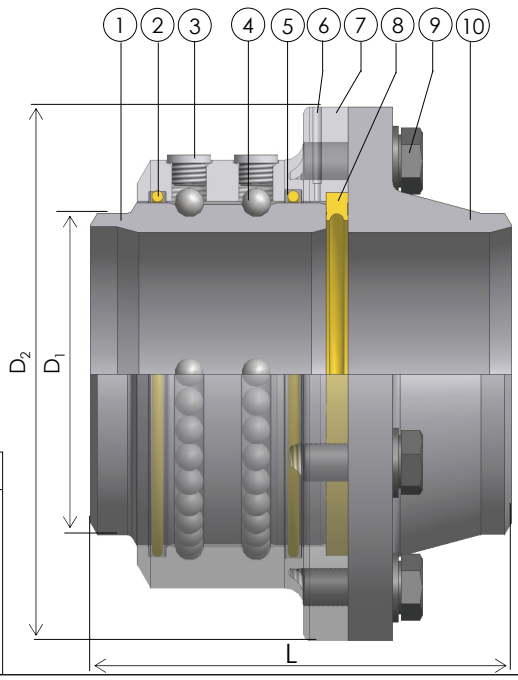
Swivel Joint SAN812

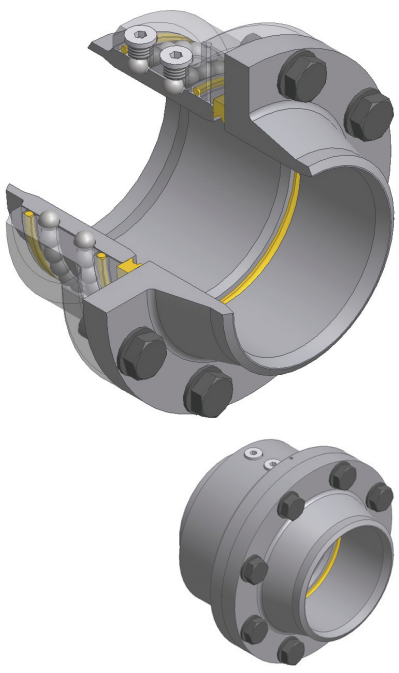
Multi purpose

Bulletin SAN812

The SAN812 swivel joint is a KANON standard swivel joint, suitable for a wide range of products used in many loading arms.

1 INNERBODY
2 DUST SEAL
3 PLUG
4 BALL
5 BALLRACE SEAL
6 FUNCTION CHECK
7 OUTERBODY
8 PRODUCT SEAL
9 HEX. SCREW
10 FLANGE





D	D_1	D_2	L	Weight [N]
6"	168.3	280	220	360
8"	219.1	343	230	450
10"	273.0	407	238	610
12"	323.9	483	250	1000
16"	406.4	597	280	1540
20"	508.0	699	300	2300

Specific features:

- High load bearing capability due to:
  - 4 point contact ball races
  - large balls
- The dual seal design protects the ball race chamber against penetration of fluid.
- Dust seal to prevent soiling.
- Long life lubrication, for minimum of maintenance.
- Double ball races.
- Function check, between product and ball race seal.
- Replacing the product seal can be done without removing the balls.
- The seal faces of the innerbody and the flange are provided with a polished stainless steel surface for long and excellent sealing.
- Max. operating pressure : according ANSI 150# rating
- Temperature range : -70°C up to +310°C

Materials:

- Outerbody : S355, AISI 316, AISI304L, 34CrNiMo6, Low temp. carbon steel.
- Innerbody : AISI 316L, AISI 304L, LT, Duplex Stainless Steel.
- Flange : ASTM A-105, AISI 316L, AISI 304L, Low temp. carbon steel.
- Product seal : PTFE-C, Viton, UHWM-PE, FDA approved PUR, NBR.

Options:

- Jacketing.
- Purge connection.
- Hastelloy seal face.
- Flanges on both sides.
- Single ball race (SAN815)
- Larger balls (SAN810)
- ANSI 300# rating (SAN 813)
- Extra holes in outerbody (SAN 814)

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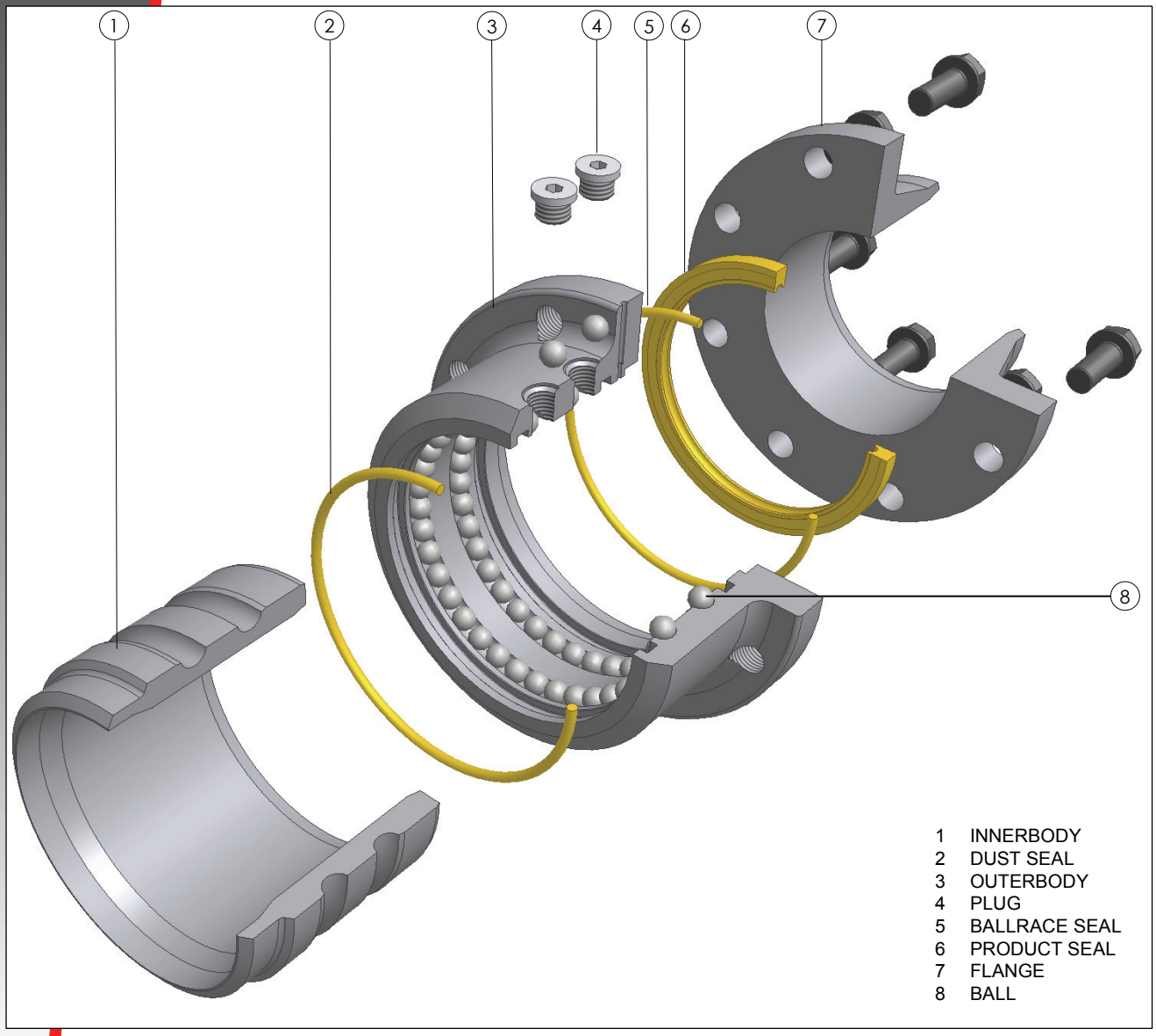
The unique Kanon swivel joint, as used on all Marine Loading Arms, is manufactured using Super Duplex material for the inner body and 34CrNiMo6 for the outer body.The hardness of these materials and there ability to be machined to extremely fine tolerances eliminates the need for heat hardening of the material from which the swivel joint is made or the insertion of hardened shells for the ball races. Due to the special shape of the ball races Kanon swivel joints are capable of withstanding up to twice as much load as competitive swivel joints. - If a material is heat hardened and then subsequently welded during fabrication there is a strong possibility that the heat hardening will be reversed, the shape of the ball races deformed or the hardened shells distorted. All of these three factors can adversely effect the performance of the swivel joint and lead to premature failure. Furthermore the process of heat hardening can invalidate the material certification that applied prior to the process.



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