

These unique devices allow a joint to swivel while high pressure hydraulic oil passes through it. Swivel couplings often have multiple ports to transfer oil to various cylinders or actuators on a machine. Swivel couplings are sometimes also called rotary joints.



SWIVEL COUPLINGS

Inside the swivel coupling are a number of chambers corresponding to the number of ports, sometimes as many as nine. Each chamber needs to be positively sealed, so fluid does not leak into any other chamber. To do this special "swivel seals" are used.

Generally, the swivel coupling must rotate with very low torque so the joint is not exposed to any significant mechanical load. The sealing system must operate with low friction to eliminate high torque yet seal efficiently for a long period of time. Seals require friction to operate correctly, so reducing the friction can create issues with leakage.

MFP Seals RS10 270 T5100 N6001



**AT HSA WE HAVE
HIGH PERFORMANCE
SEALING SOLUTIONS
FOR SWIVEL
COUPLINGS!**



**WHATEVER YOUR APPLICATION,
HSA HAS A SOLUTION THAT WILL
PROVIDE HIGH PERFORMANCE,
LEAK-FREE SEALING.**

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Ultra-low friction rotary joint seals are made from PTFE filled with special compounds like bronze, glass and molybdenum disulphide, graphite or carbon. These sealing rings are energised with a rubber O-ring or similar.

Ultra-low friction seals are also made from PEHUD. This unique material has the same dynamic friction as PTFE albeit with improved sealing characteristics and incredible wear resistance. It is also energised by a rubber O-ring or similar.

Low friction seals are made from a special grade of polyurethane that is self-lubricated. We call it SLPU. The compound has excellent abrasion resistance and impressive sealability to control any leakage.

At HSA we have the right materials and the widest range of seals to manufacture and supply parts to your exact specifications.

