Port seals

Provide a sealed port for transferring pressurized fluid to adjacent transmission components, ensuring hydraulic pump efficiency and robust transmission function.

Available applications
Automatic transmissions utilising hydraulic circuits.

How it works
The port seal creates a flexible sealing joint which seals pressurized fluid via axial and radial compression of the rubber. The elastomeric material along with the design of the part allows the port seal to function under a wide range of assembly tolerances.

Design examples:
- Single port seal
- Multi-connected port seal
- Self-supported port seal

Each port seal is designed for application specific housing geometries, operating pressures, and stackup conditions.

Superior product materials, SKF formulated HNBR and AEM compounds, are used in the manufacturing of the port seals resulting in:
- Excellent chemical resistance
- Excellent temperature resistance
- High reliability
- Long service life

The value of the SKF port seal:
- Potential to combine multiple port seals to reduce inventory and assembly complexity
- Custom sealing features to accommodate wide assembly tolerances
- Pressure-activated sealing lips provide increased sealing performance over range of fluid pressures
- Metal stampings and coil springs offer support for elastomeric material reducing the potential for rubber fatigue under high pressures and thereby providing consistent flow
- Ability to handle differentials in thermal expansion provides more options for housing materials

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