Rotary Couplings

single, twin, four, six, eight and ten passages, with/without leakage oil recirculation max. operating pressure 500 bar

General description

Rotary couplings supply the pressure oil to rotating and swivelling installations. They are mounted in the centre of rotation of the installation.

Operating conditions

When selecting, operating pressure and speed have to be taken into account. Only use hydraulic oil of the viscosity classes 22, 32 and 46.

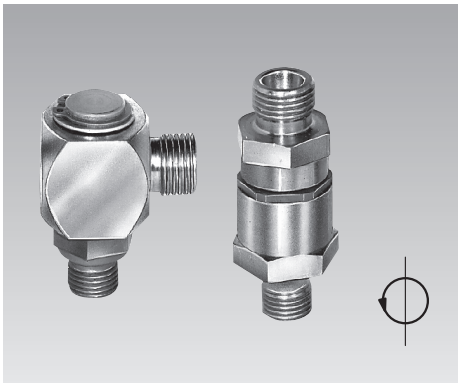
The rotary coupling has to be connected to the power unit on all levels to ensure sufficient lubrications of the seals.

The rotary couplings must only be used in a temperature range between +10 °C and +60 °C. This also applies to possible special versions with FKM seals.

Special versions are available on request.

When placing an order, please indicate the most important operating data (pressure, temperature, medium, number of revolutions or cycle time) in order to allow a possible adaptation from standard for the application.

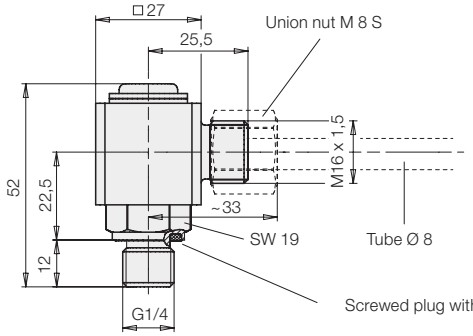
Single Passage Rotary Coupling



Technical data

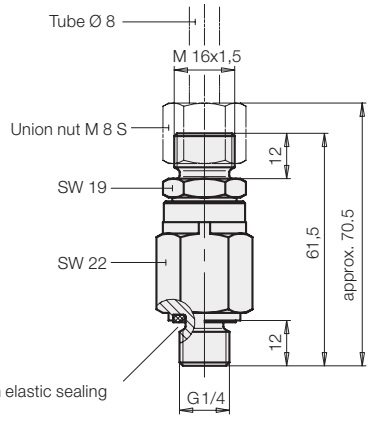
Range of operating pressure	10 – 500 bar
Admissible continuous speed	10 min^{-1}
Starting torque	approx. 1.2 Nm
Tightening torque G1/4	55 Nm

Angle swivel joint



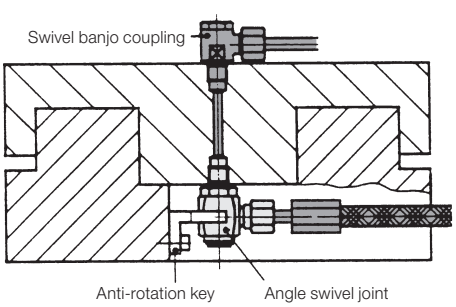
Part no. 9208176

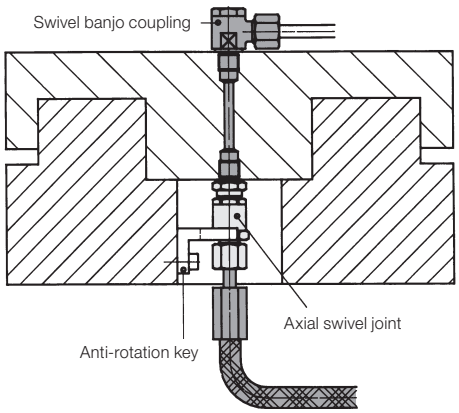
Axial swivel joint



Part no. 9208069

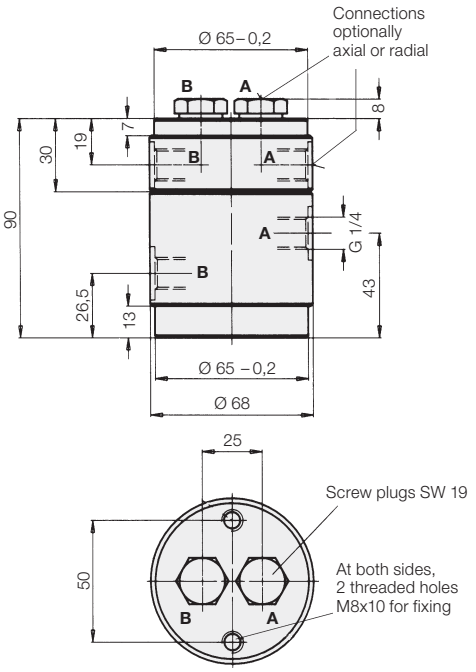
Application examples



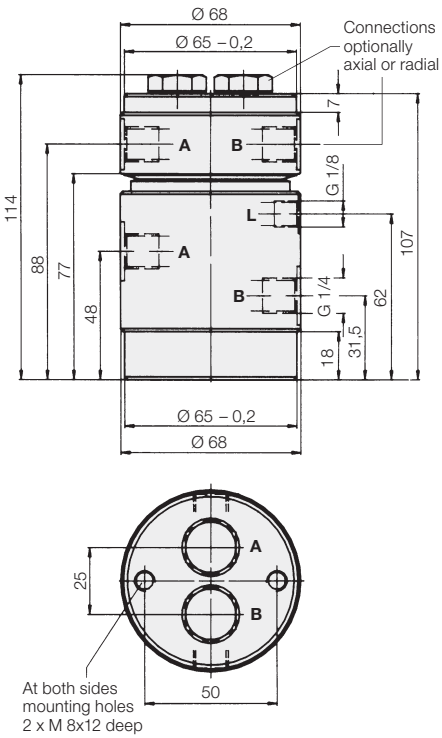


Operating conditions, tolerances and other data see data sheet A 0.100.

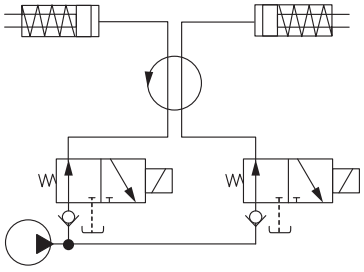
Twin passage rotary coupling



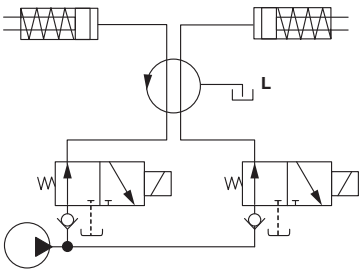
Twin passage rotary coupling
with leakage oil recirculation in the housing



Hydraulic circuit diagram



Hydraulic circuit diagram



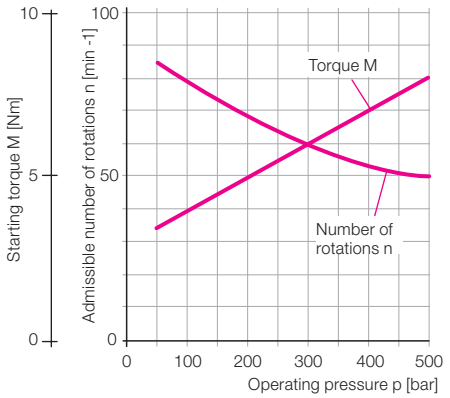
Rotary coupling ND 5

Operating pressure range [bar]	Leakage rate [cm³/100h]	Weight [kg]	**Part no.**
10 – 500	40	2.4	**9281 136**

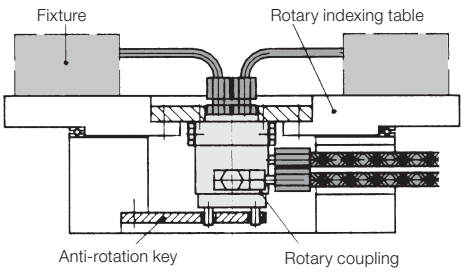
Rotary coupling ND 5
with leakage oil recirculation in the housing

Operating pressure range [bar]	Weight [kg]	**Part no.**
10 – 500	2.75	**9281 135**

Max. admissible number of rotations n and starting torque M as a function of the operating pressure p

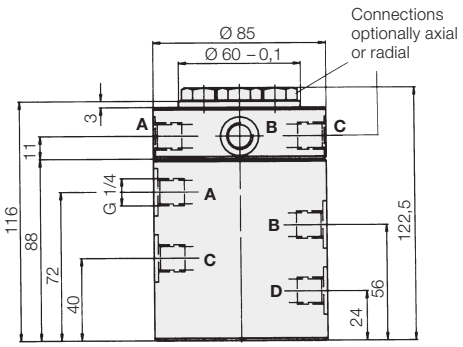


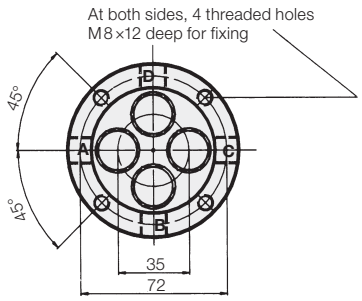
Application example



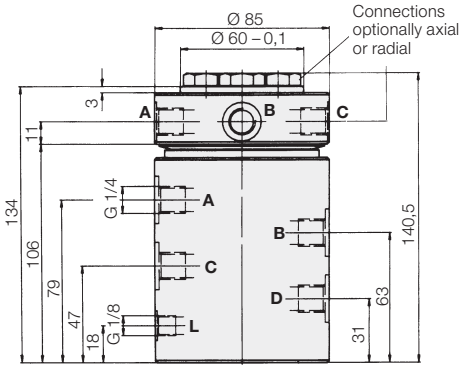
Operating conditions, tolerances and other data see data sheet A 0.100.

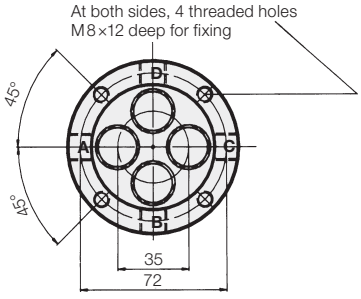
Four passage rotary coupling



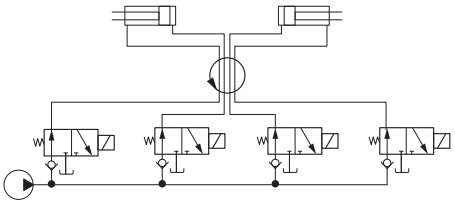


Four passage rotary coupling
with leakage oil recirculation in the housing

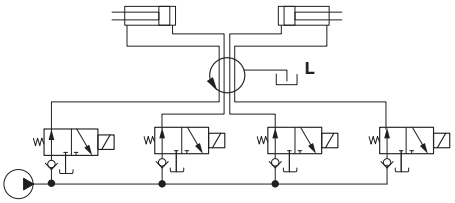




Hydraulic circuit diagram



Hydraulic circuit diagram



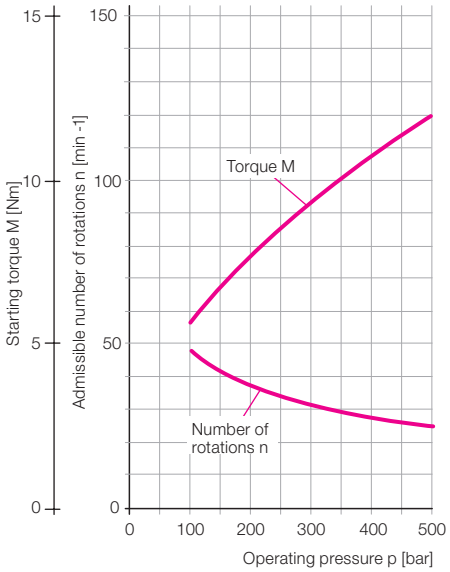
Rotary coupling ND 5

Operating pressure range [bar]	Leakage rate [cm³/100h]	Weight [kg]	**Part no.**
10 – 500	60	4.6	**9284036**

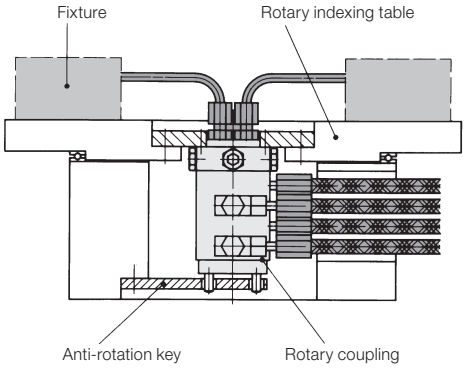
Rotary coupling ND 5
with leakage oil recirculation in the housing

Operating pressure range [bar]	Weight [kg]	**Part no.**
10 – 500	5.5	**9284135**

Max. admissible number of rotations n and starting torque M as a function of the operating pressure p

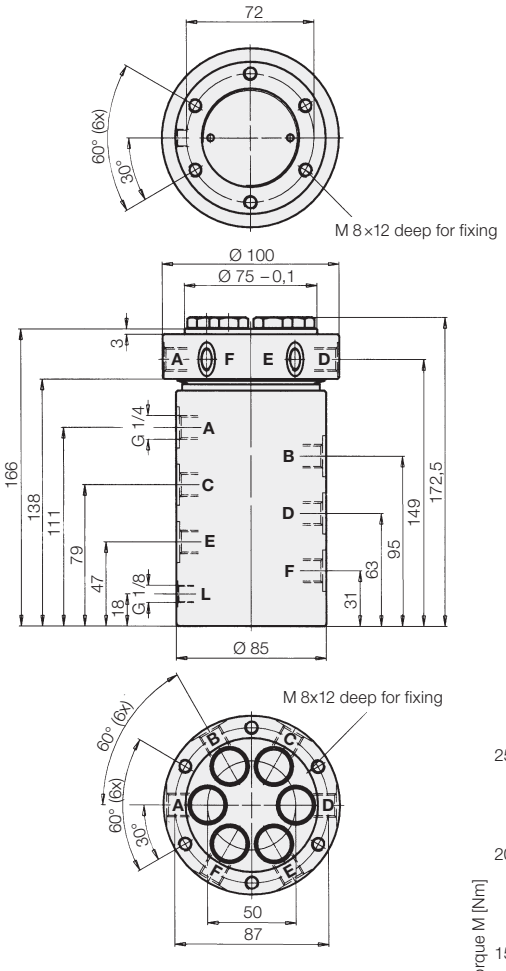


Application example

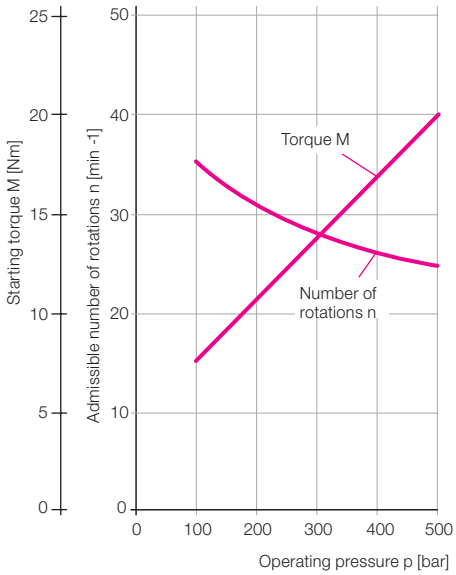


Operating conditions, tolerances and other data see data sheet A 0.100.

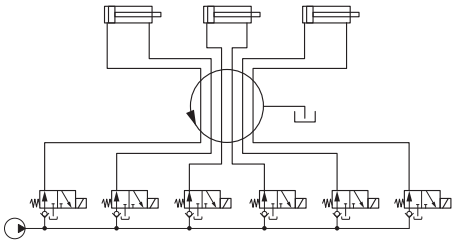
Six passage rotary coupling
with leakage oil recirculation in the housing



Max. admissible number of rotations n and starting torque M as a function of the operating pressure p



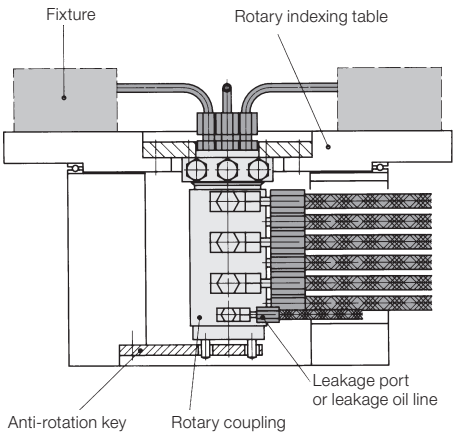
Hydraulic circuit diagram



Rotary coupling ND 5

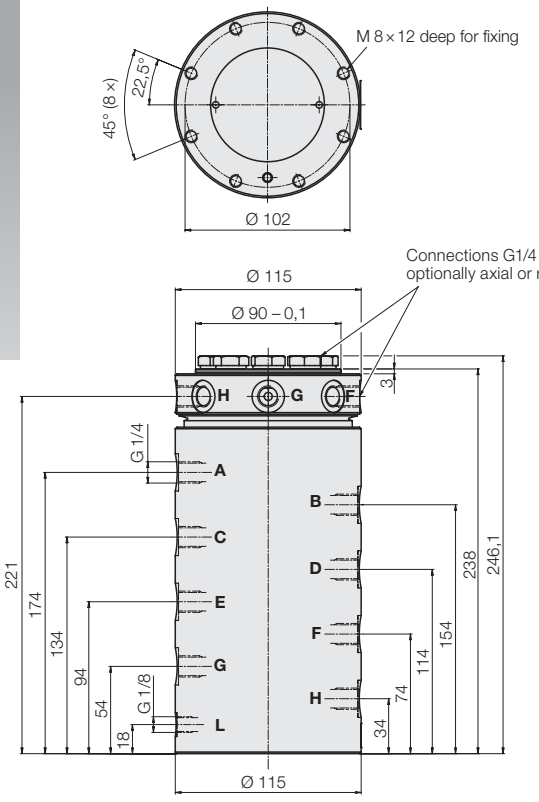
Operating pressure range [bar]	Weight [kg]	**Part no.**
10 – 500	8.8	**9286135**

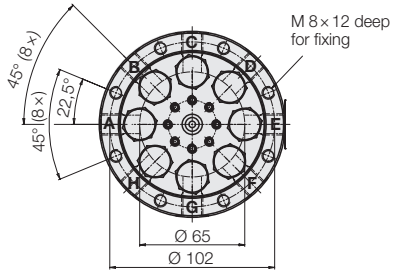
Application example



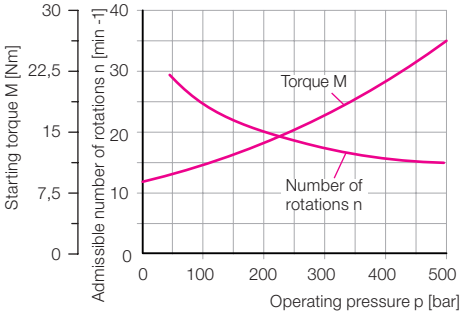
Operating conditions, tolerances and other data see data sheet A 0.100.

Eight passage rotary coupling
with leakage oil recirculation in the housing

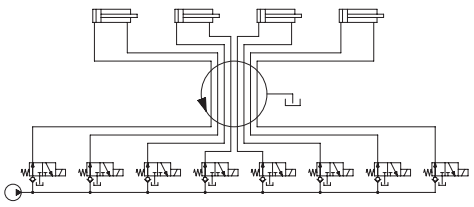




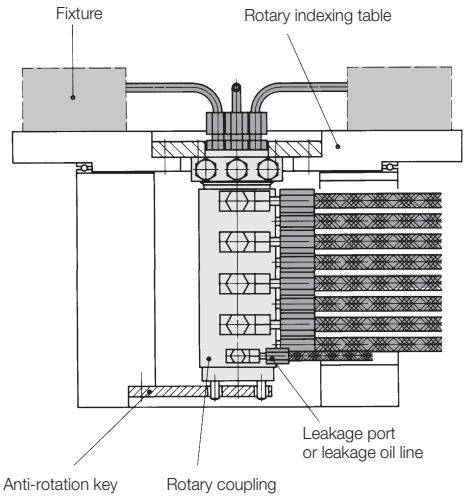
Max. admissible number of rotations n and starting torque M as a function of the operating pressure p



Hydraulic circuit diagram



Application example

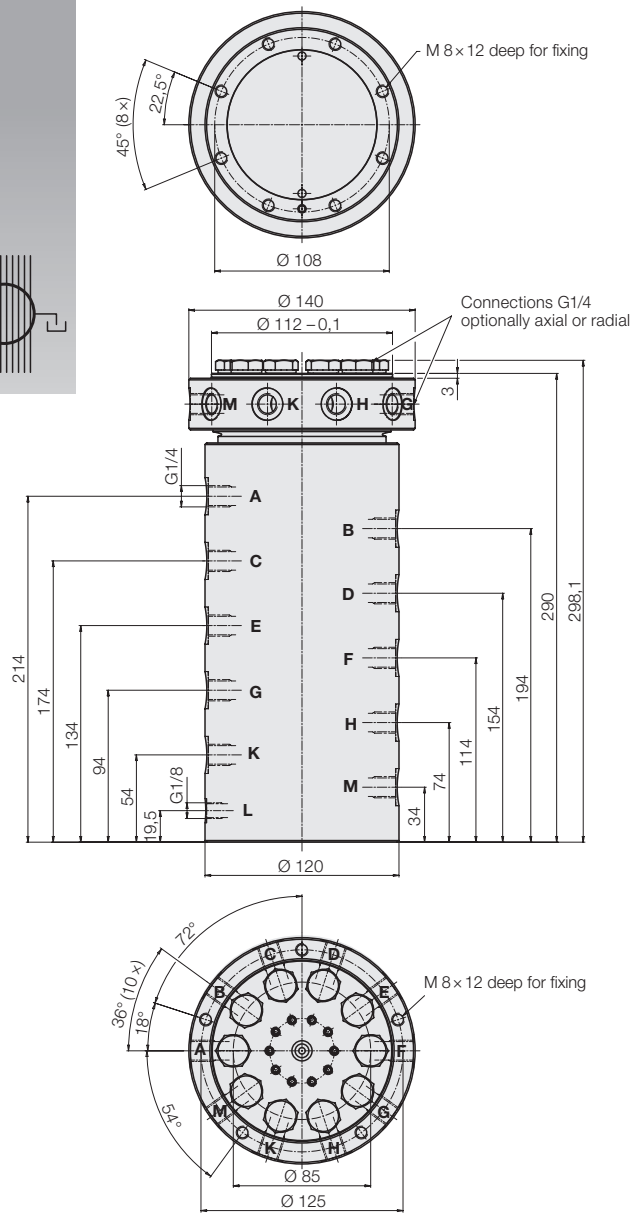


Rotary coupling ND 5

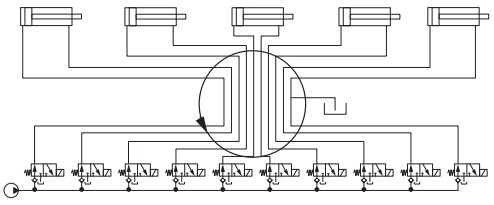
Operating pressure range [bar]	Weight [kg]	**Part no.**
10 – 500	20.2	**9288135**

Operating conditions, tolerances and other data see data sheet A 0.100.

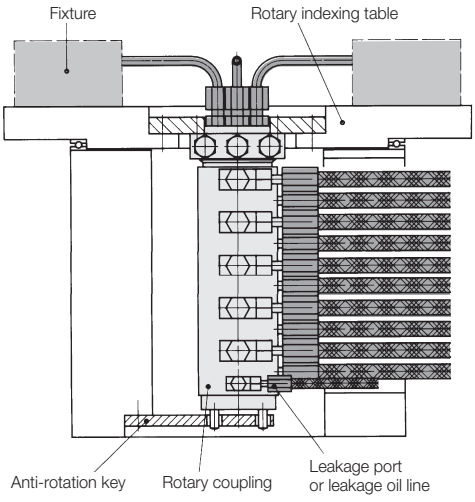
Ten passage rotary coupling
with leakage oil recirculation in the housing



Hydraulic circuit diagram



Application examples



Rotary coupling ND 5

Operating pressure range [bar]	Weight [kg]	**Part no.**
10 – 500	28	**9280135**

Operating conditions, tolerances and other data see data sheet A 0.100.