



**Rotary Couplings**

single, twin, four and six 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.

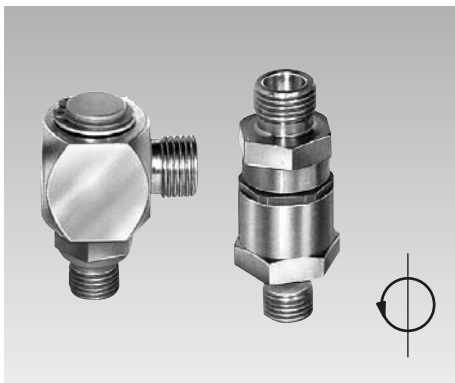
The rotary couplings must only be used in a temperature range between +10 °C and +60 °C. This also applies to possible special versions with FKM seals.

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

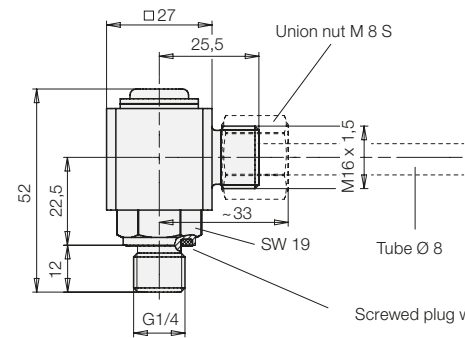
**Special versions are available on request.**

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 couplings**

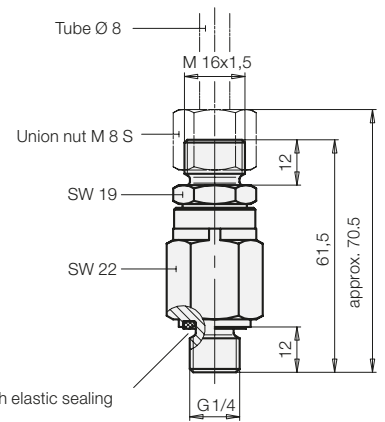


**Angle swivel joint**



**Part no. 9208-176**

**Axial swivel joint**

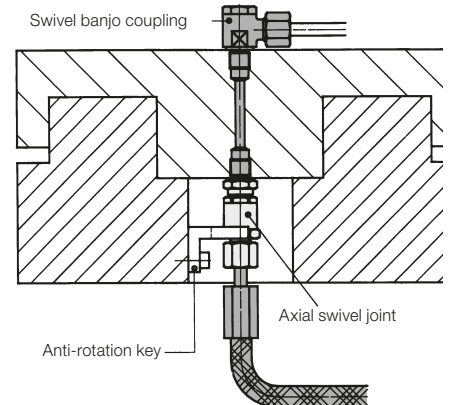
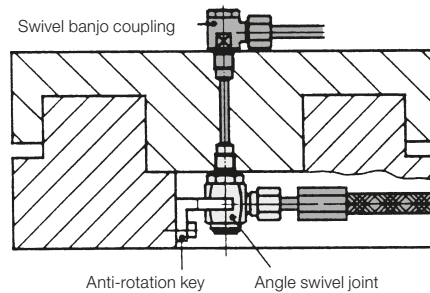


**Part no. 9208-069**

**Technical data**

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

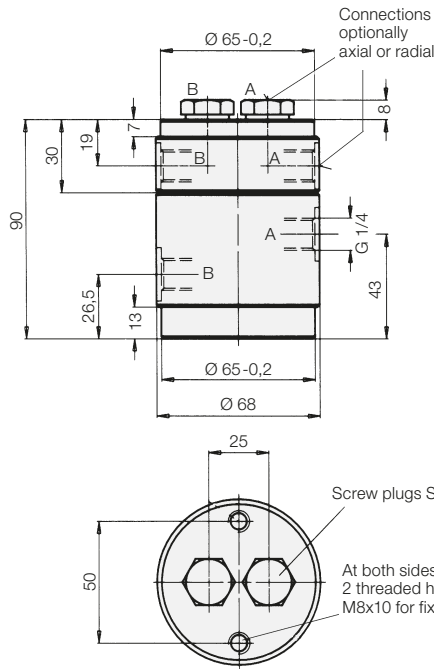
**Application examples**



# Twin passage rotary coupling

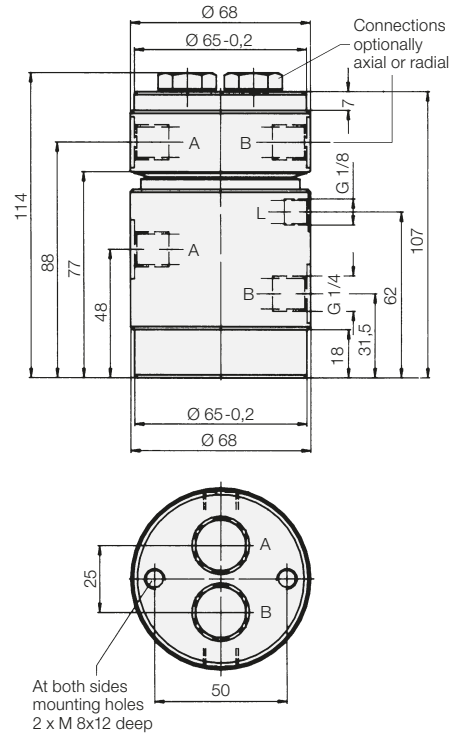


## Twin passage rotary coupling

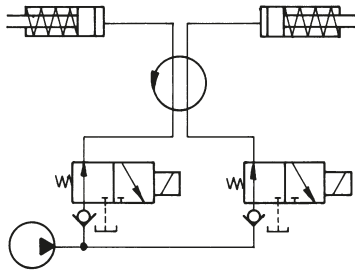


## Twin passage rotary coupling

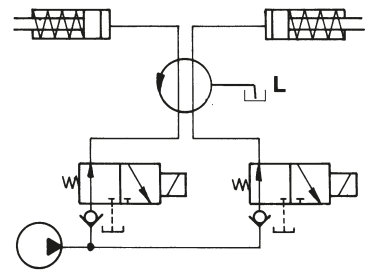
with leakage oil recirculation in the housing



## Hydraulic circuit diagram



## Hydraulic circuit diagram



## Rotary coupling ND 5

Operating pressure range [bar]    Leakage rate [cm<sup>3</sup>/100h]    Weight [kg]

Part no.

10 – 500    40    2.4    **9281-136**

## Rotary coupling ND 5

with leakage oil recirculation in the housing

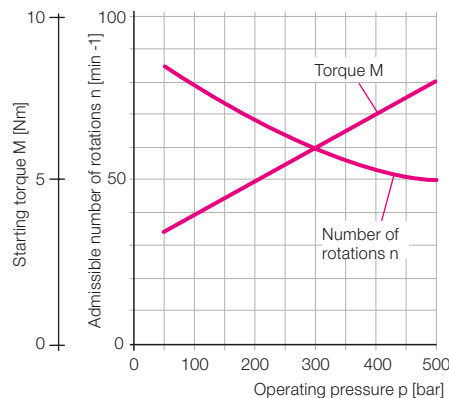
Operating pressure range [bar]

Weight [kg]

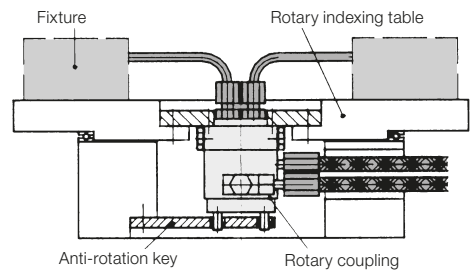
Part no.

10 – 500    2.75    **9281-135**

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



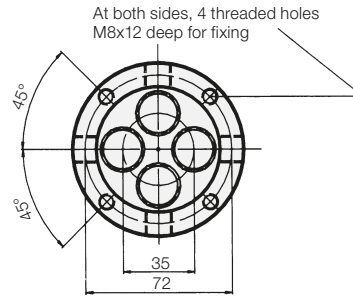
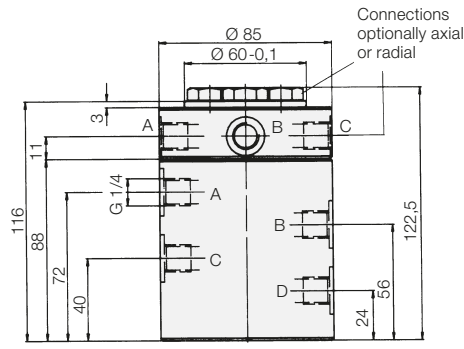
## Application example



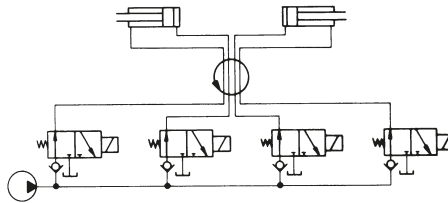
# Four passage rotary coupling



## Four passage rotary coupling



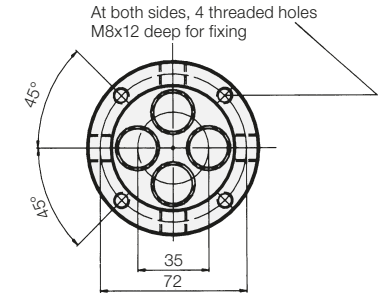
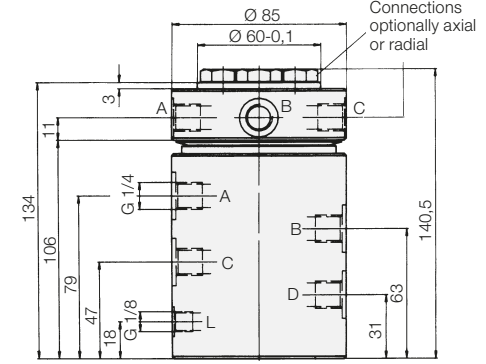
## Hydraulic circuit diagram



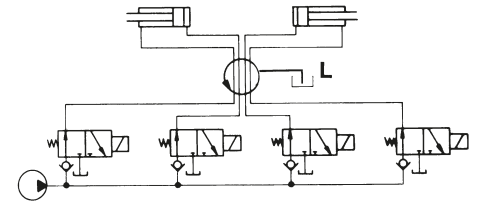
## Rotary coupling ND 5

Operating pressure range [bar]	Leakage rate [cm <sup>3</sup> /100h]	Weight [kg]	Part no.
10 – 500	60	4.6	<b>9284-036</b>

## Four passage rotary coupling with leakage oil recirculation in the housing



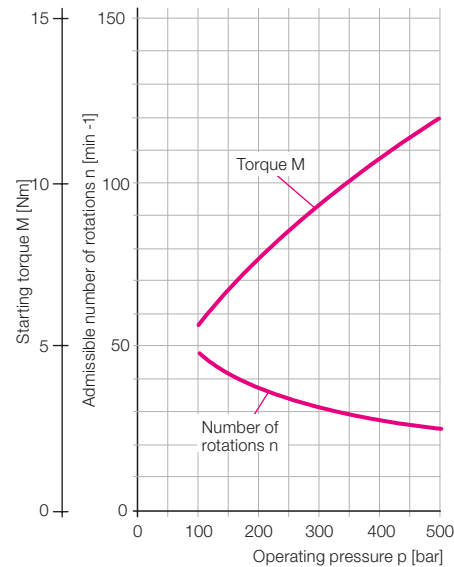
## Hydraulic circuit diagram



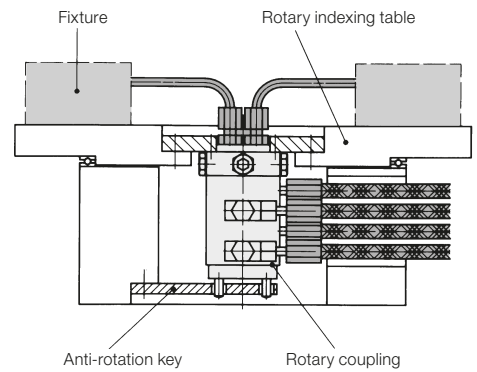
## Rotary coupling ND 5

Operating pressure range [bar]	Weight [kg]	Part no.
10 – 500	5.5	<b>9284-135</b>

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



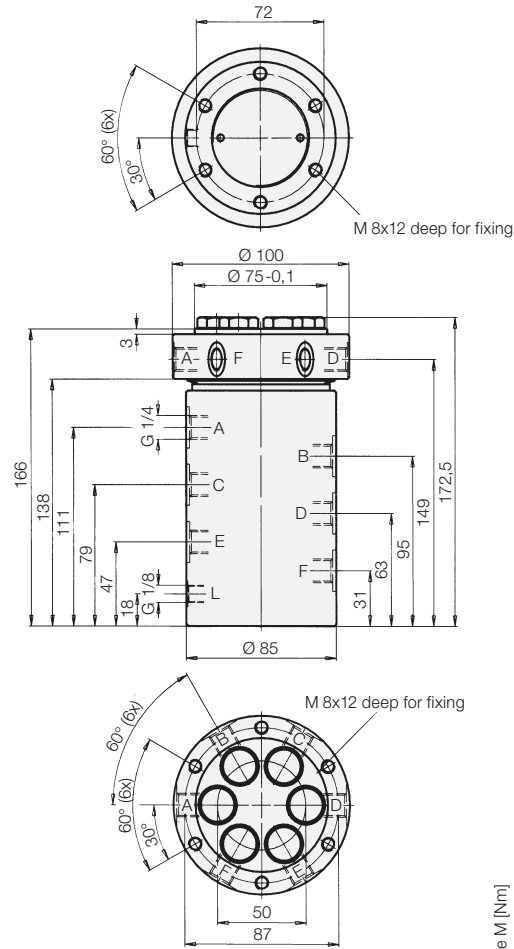
## Application example



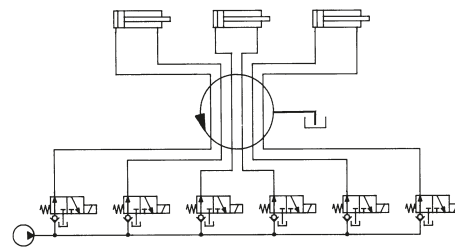
# Six passage rotary coupling



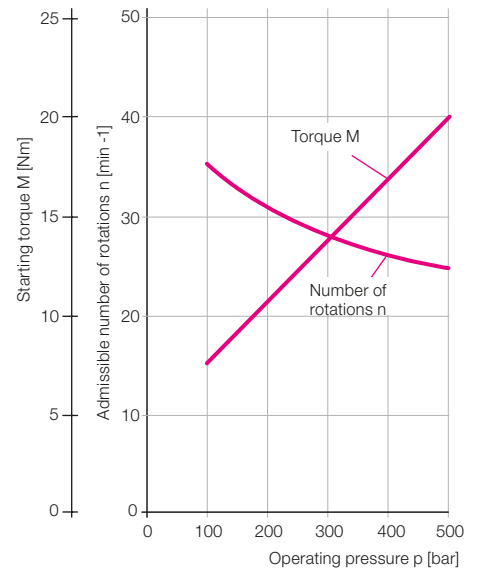
## Six passage rotary coupling with leakage oil recirculation in the housing



### Hydraulic circuit diagram



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



### Rotary coupling ND 5

Operating pressure range [bar]	Weight [kg]	Part no.
10 – 500	7.2	9286-135

### Application example

