

### **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.

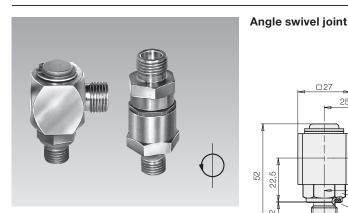
The rotary couplings must only be used in a temperature range between +10 °C and +60 °C. This also applies to possible special versions with FKM seals.

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

### Special versions are available on request.

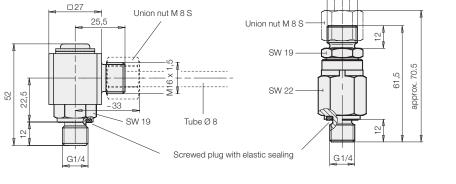
When placing an order, please indicate the most important operating data (pressure, temperature, medium, number of revolutions or cycle time) in order to allow a possible adaptation from standard for the application.

### Single Passage Rotary Coupling



### 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



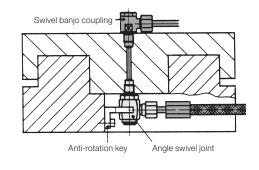
Axial swivel joint

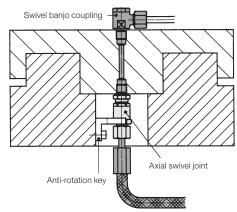
Tube Ø 8 -

M 16x1,5

Part no. 9208176 Part no. 9208069

### **Application examples**



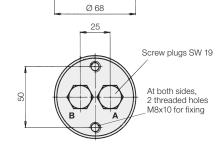


### Twin Passage Rotary Coupling



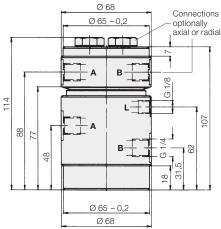
### Twin passage rotary coupling

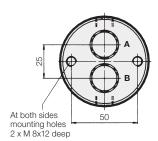
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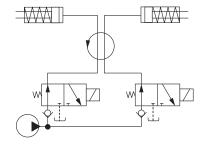
### Twin passage rotary coupling

with leakage oil recirculation in the housing





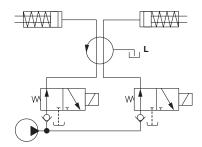
### Hydraulic circuit diagram



### **Rotary coupling ND 5**

Operating pressure	_	Weight	Part no.
range [bar]	[cm <sup>3</sup> /100h]	[kg]	
10 - 500	40	2.4	9281 136

## Hydraulic circuit diagram

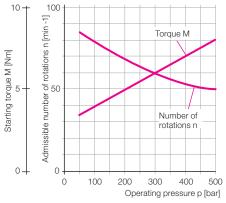


### Rotary coupling ND 5

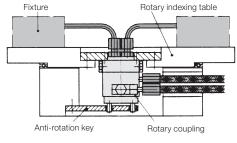
with leakage oil recirculation in the housing

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**

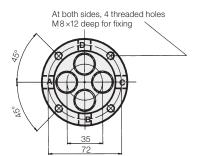


### Four Passage Rotary Coupling



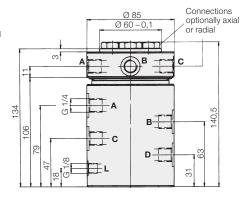
### Four passage rotary coupling

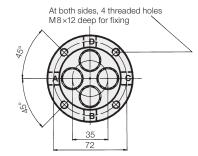
# O 85 Ochnections optionally axial or radial



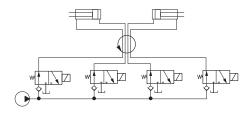
### Four passage rotary coupling

with leakage oil recirculation in the housing





### Hydraulic circuit diagram

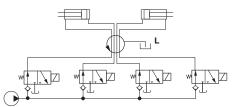


### **Rotary coupling ND 5**

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

Max. admissible number of rotations n

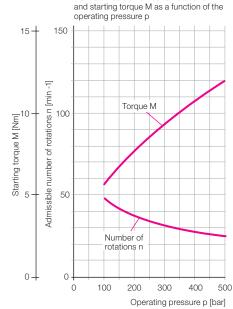




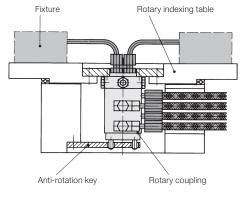
### Rotary coupling ND 5

with leakage oil recirculation in the housing

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



### **Application example**

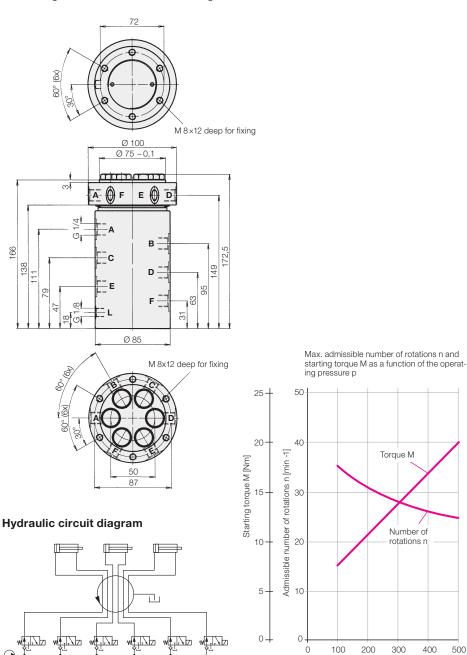


### Six Passage Rotary Coupling



### Six passage rotary coupling

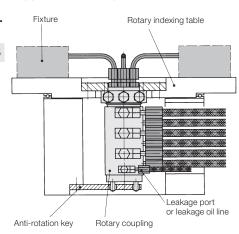
with leakage oil recirculation in the housing



### Rotary coupling ND 5

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

### **Application example**



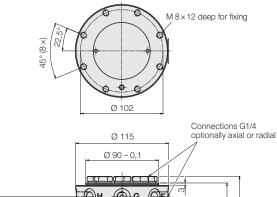
Operating conditions, tolerances and other data see data sheet A 0.100.

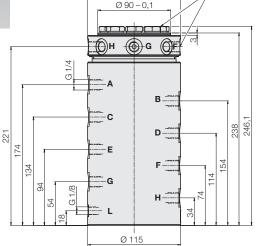
Operating pressure p [bar]

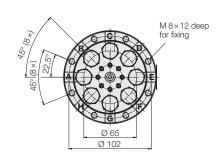
### **Eight Passage Rotary Coupling**

### Eight passage rotary coupling

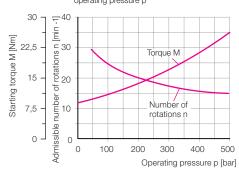
with leakage oil recirculation in the housing



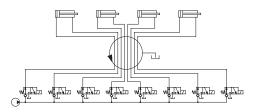




Max, admissible number of rotations n and starting torque M as a function of the operating pressure p



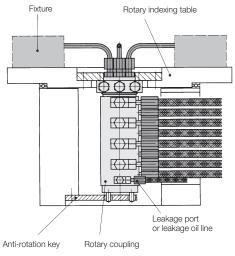
### Hydraulic circuit diagram



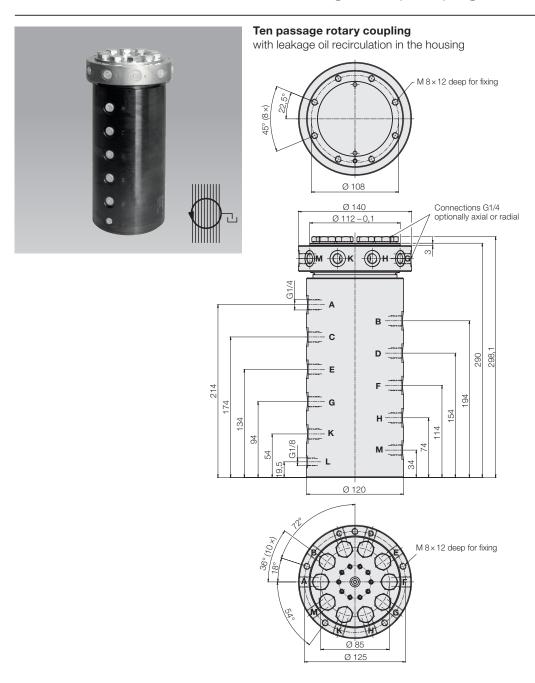
### Rotary coupling ND 5

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

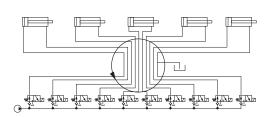
### Application example



### Ten Passage Rotary Coupling



### Hydraulic circuit diagram



## Rotary coupling ND 5

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

### **Application examples**

