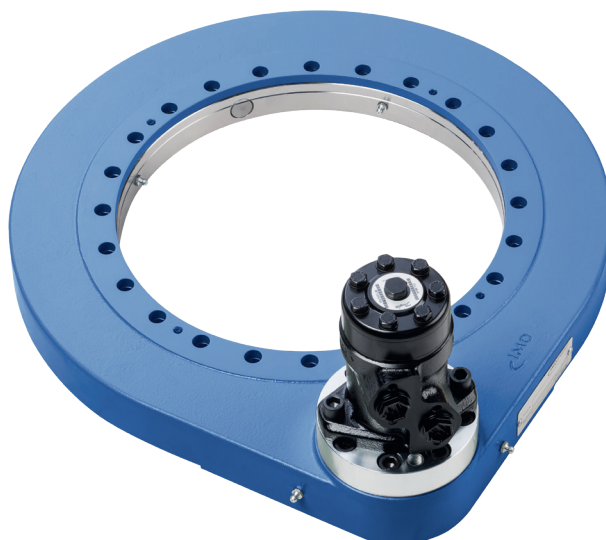
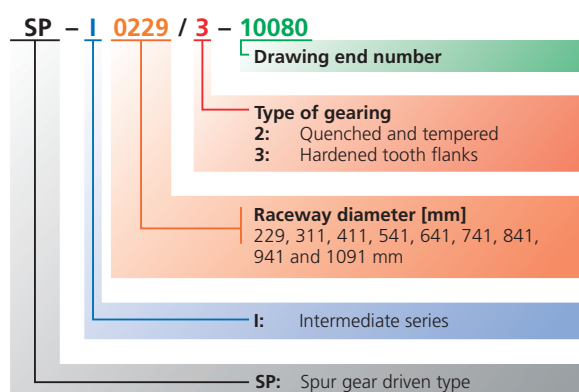


SP-I series

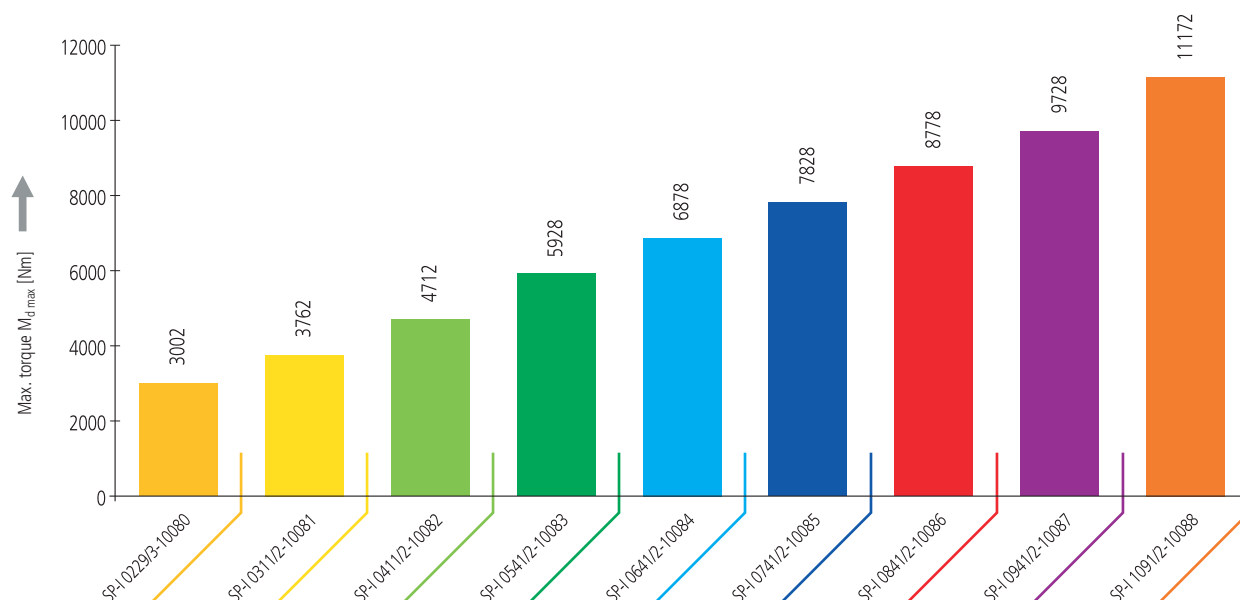
SP-I series overview



Maximum torque $M_{d\max}$ of the individual sizes

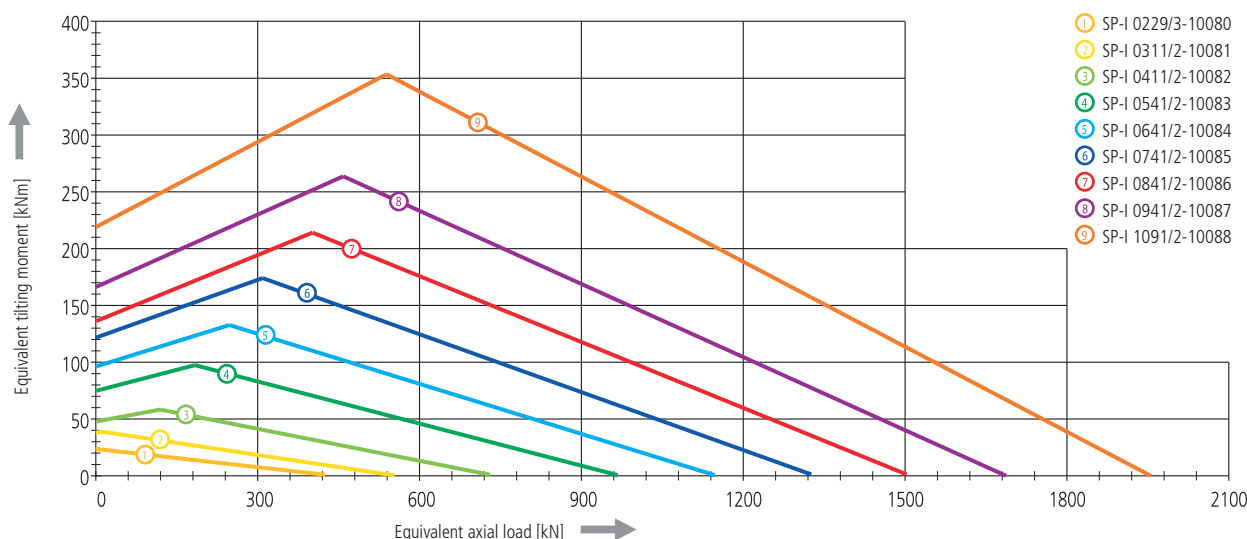
CAUTION: The duty per minute is limited.

Please always observe the explanations in the Technical Information section (from page 60).

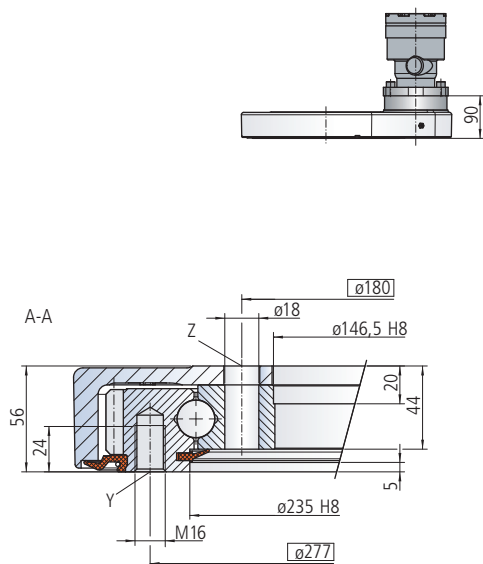


Limiting load diagrams of the individual sizes for compressive loads

Please always observe the explanations in the Technical Information section (from page 60).



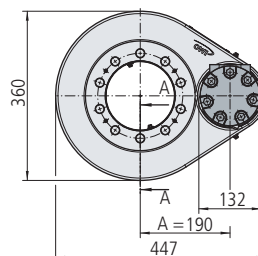
Size SP-I 0229



The mounting structure must support the housing to at least $\phi 229$.

The seal must be supported by the mounting structure to at least $\phi 353$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 12 drill holes M16-24 deep, evenly distributed

Z = 10 drill holes $\phi 18$, evenly distributed

Lubricating ports

2 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0229/3-10080

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	79
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	5.27
Max. torque	M_{d max}	[Nm]	3002
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	2607
Max. holding torque*	M_{h max}	[Nm]	3002
Static load rating, radial	C_{o rad}	[kN]	159
Static load rating, axial	C_{o ax}	[kN]	426
Dynamic load rating, radial	C_{rad}	[kN]	151
Dynamic load rating, axial	C_{ax}	[kN]	176
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	46

* Optionally with brake

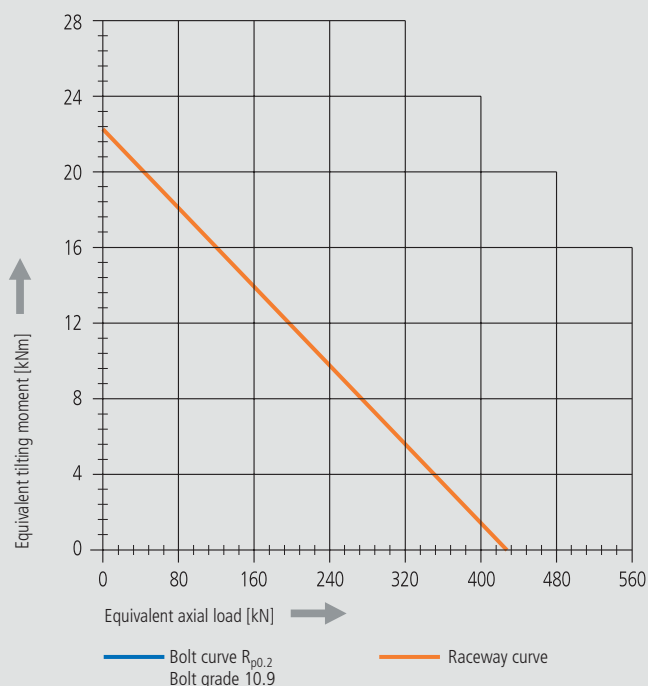
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

Pressure differential	Δp	[bar]	150
Oil flow	Q	[l/min]	13
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	3002

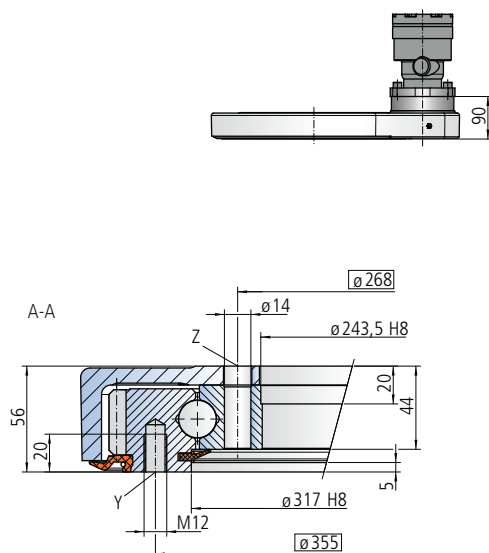
Limiting load diagram for compressive loads



Please always observe the technical information!

SP-I series

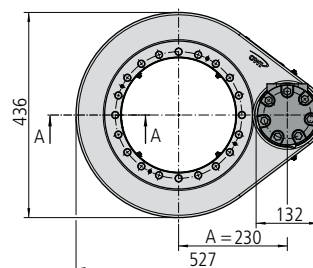
Size SP-I 0311



The mounting structure must support the housing to at least $\phi 311$.

The seal must be supported by the mounting structure to at least $\phi 431$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 20 drill holes M12-20 deep, evenly distributed

Z = 20 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0311/2-10081

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	99
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	6.60
Max. torque	M_{d max}	[Nm]	3762
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	2653
Max. holding torque*	M_{h max}	[Nm]	3762
Static load rating, radial	C_{o rad}	[kN]	208
Static load rating, axial	C_{o ax}	[kN]	557
Dynamic load rating, radial	C_{rad}	[kN]	172
Dynamic load rating, axial	C_{ax}	[kN]	200
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	50

* Optionally with brake

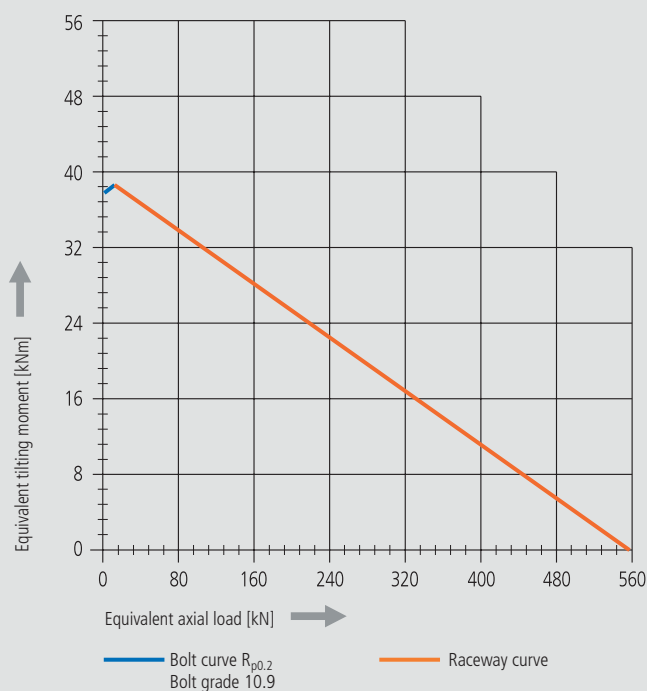
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

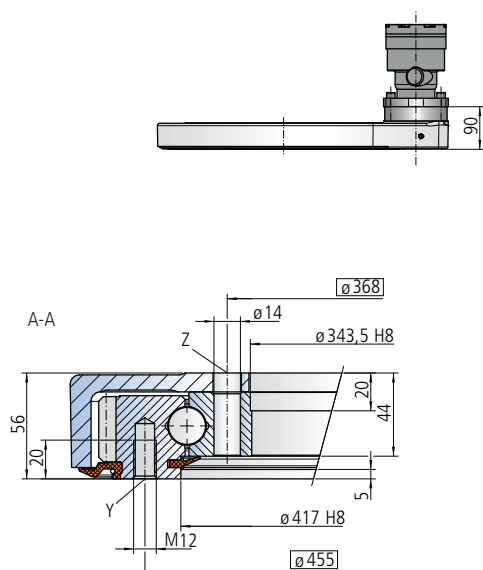
Pressure differential	Δp	[bar]	150
Oil flow	Q	[l/min]	15
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	3762

Limiting load diagram for compressive loads



Please always observe the technical information!

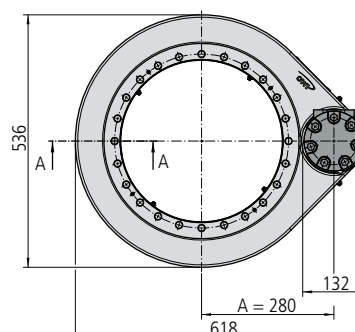
Size SP-I 0411



The mounting structure must support the housing to at least $\phi 411$.

The seal must be supported by the mounting structure to at least $\phi 531$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 20 drill holes M12-20 deep, evenly distributed

Z = 24 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0411/2-10082

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	124
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	8.27
Max. torque	M_{d max}	[Nm]	4712
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	3348
Max. holding torque*	M_{h max}	[Nm]	4712
Static load rating, radial	C_{o rad}	[kN]	275
Static load rating, axial	C_{o ax}	[kN]	736
Dynamic load rating, radial	C_{rad}	[kN]	190
Dynamic load rating, axial	C_{ax}	[kN]	222
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	59

* Optionally with brake

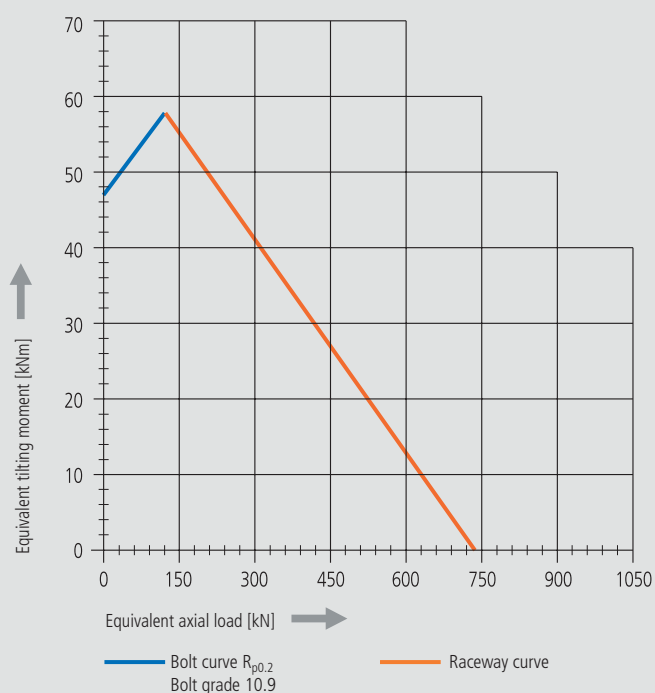
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

Pressure differential	Δp	[bar]	150
Oil flow	Q	[l/min]	17
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	4712

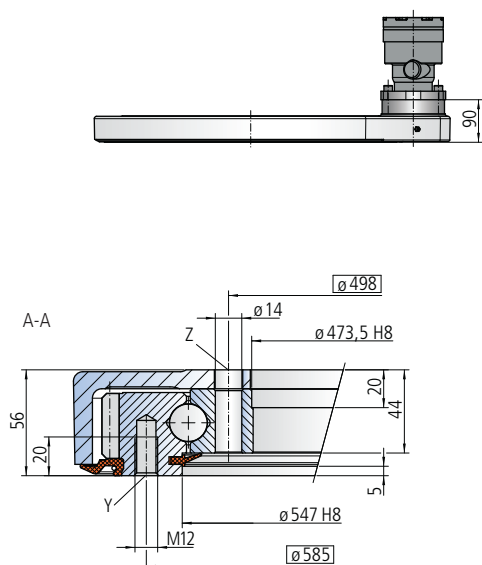
Limiting load diagram for compressive loads



Please always observe the technical information!

SP-I series

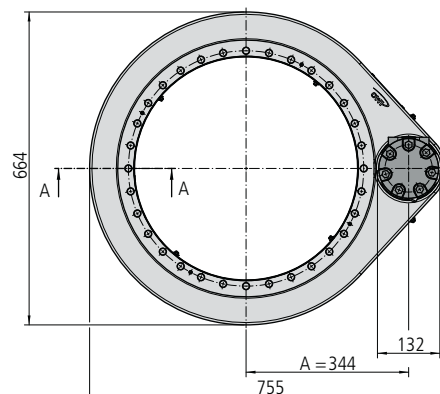
Size SP-I 0541



The mounting structure must support the housing to at least $\phi 541$.

The seal must be supported by the mounting structure to at least $\phi 661$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 28 drill holes M12-20 deep, evenly distributed

Z = 32 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0541/2-10083

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	156
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	10.4
Max. torque	M_{d max}	[Nm]	5928
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	4243
Max. holding torque*	M_{h max}	[Nm]	5928
Static load rating, radial	C_{o rad}	[kN]	362
Static load rating, axial	C_{o ax}	[kN]	970
Dynamic load rating, radial	C_{rad}	[kN]	212
Dynamic load rating, axial	C_{ax}	[kN]	248
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	72

* Optionally with brake

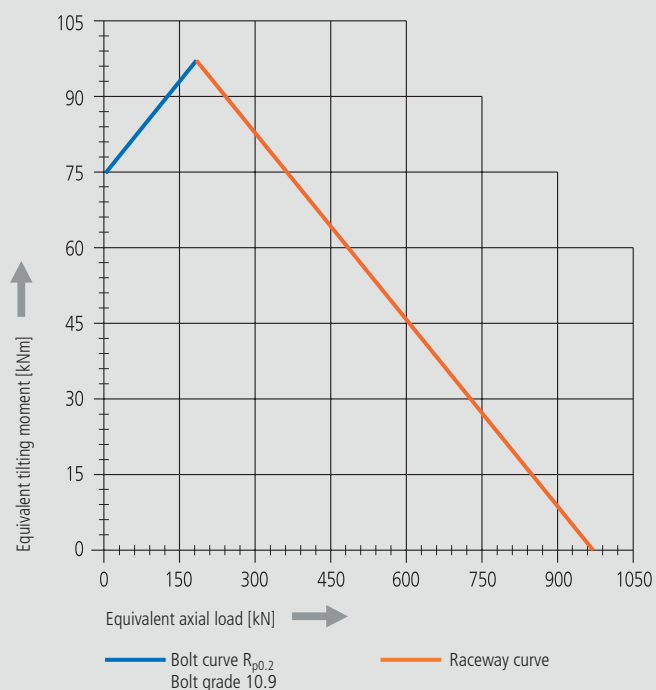
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

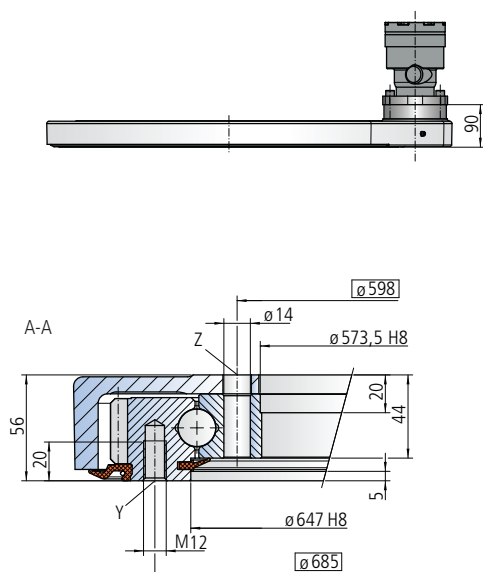
Pressure differential	Δp	[bar]	150
Oil flow	Q	[l/min]	21
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	5928

Limiting load diagram for compressive loads



Please always observe the technical information!

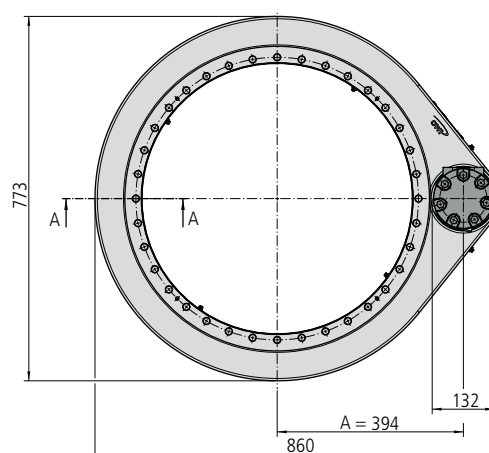
Size SP-I 0641



The mounting structure must support the housing to at least $\phi 641$.

The seal must be supported by the mounting structure to at least $\phi 761$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 32 drill holes M12-20 deep, evenly distributed

Z = 36 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0641/2-10084

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	181
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	12.07
Max. torque	M_{d max}	[Nm]	6878
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	4921
Max. holding torque*	M_{h max}	[Nm]	6878
Static load rating, radial	C_{o rad}	[kN]	429
Static load rating, axial	C_{o ax}	[kN]	1149
Dynamic load rating, radial	C_{rad}	[kN]	226
Dynamic load rating, axial	C_{ax}	[kN]	264
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	84

* Optionally with brake

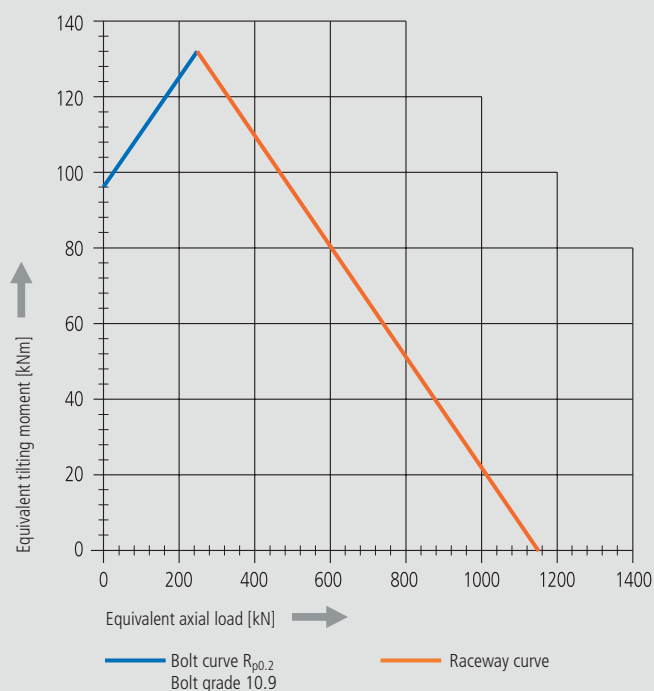
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

Pressure differential	Δp	[bar]	155
Oil flow	Q	[l/min]	23
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	6878

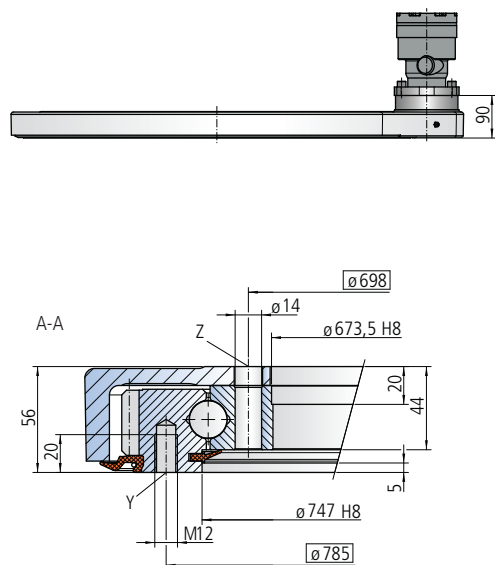
Limiting load diagram for compressive loads



Please always observe the technical information!

SP-I series

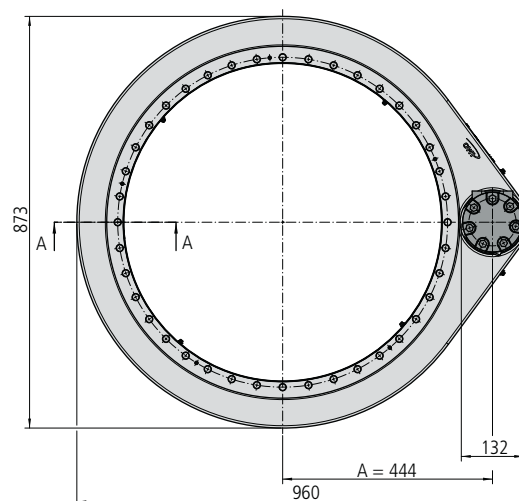
Size SP-I 0741



The mounting structure must support the housing to at least $\phi 741$.

The seal must be supported by the mounting structure to at least $\phi 861$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 36 drill holes M12-20 deep, evenly distributed

Z = 40 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0741/2-10085

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	206
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	13.73
Max. torque	M_{d max}	[Nm]	7828
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	5644
Max. holding torque*	M_{h max}	[Nm]	7828
Static load rating, radial	C_{o rad}	[kN]	496
Static load rating, axial	C_{o ax}	[kN]	1329
Dynamic load rating, radial	C_{rad}	[kN]	238
Dynamic load rating, axial	C_{ax}	[kN]	278
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	95

* Optionally with brake

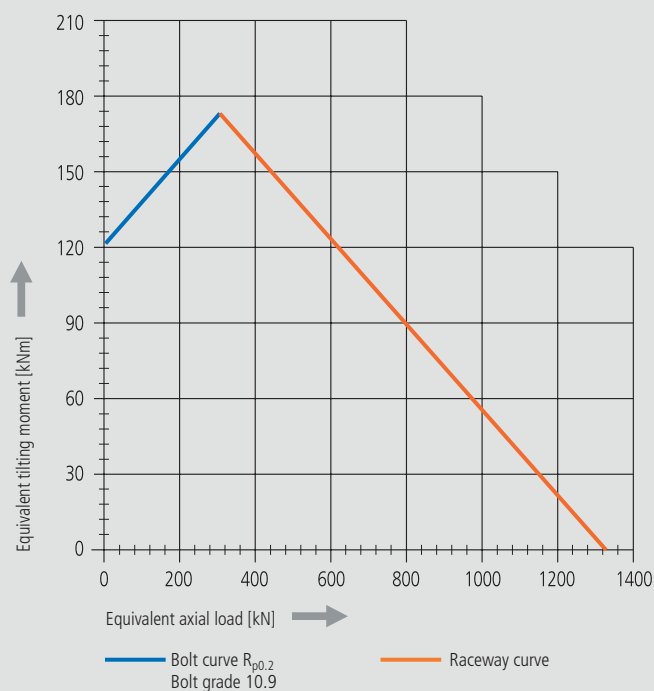
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

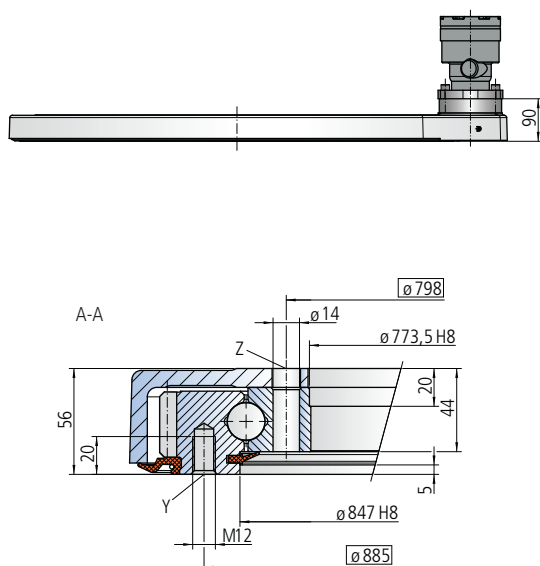
Pressure differential	Δp	[bar]	155
Oil flow	Q	[l/min]	25
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	7828

Limiting load diagram for compressive loads



Please always observe the technical information!

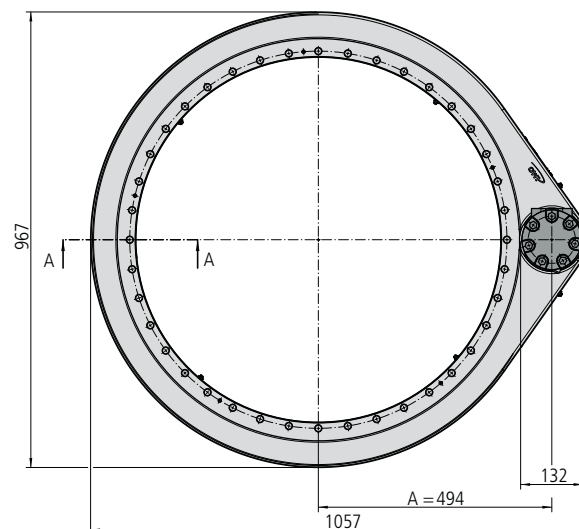
Size SP-I 0841



The mounting structure must support the housing to at least $\phi 841$.

The seal must be supported by the mounting structure to at least $\phi 961$, in order to guarantee the full sealing effect.

A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 36 drill holes M12-20 deep, evenly distributed

Z = 40 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number SP-I 0841/2-10086

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	231
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	15.4
Max. torque	M_{d max}	[Nm]	8778
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	6329
Max. holding torque*	M_{h max}	[Nm]	8778
Static load rating, radial	C_{o rad}	[kN]	563
Static load rating, axial	C_{o ax}	[kN]	1508
Dynamic load rating, radial	C_{rad}	[kN]	250
Dynamic load rating, axial	C_{ax}	[kN]	293
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	102

* Optionally with brake

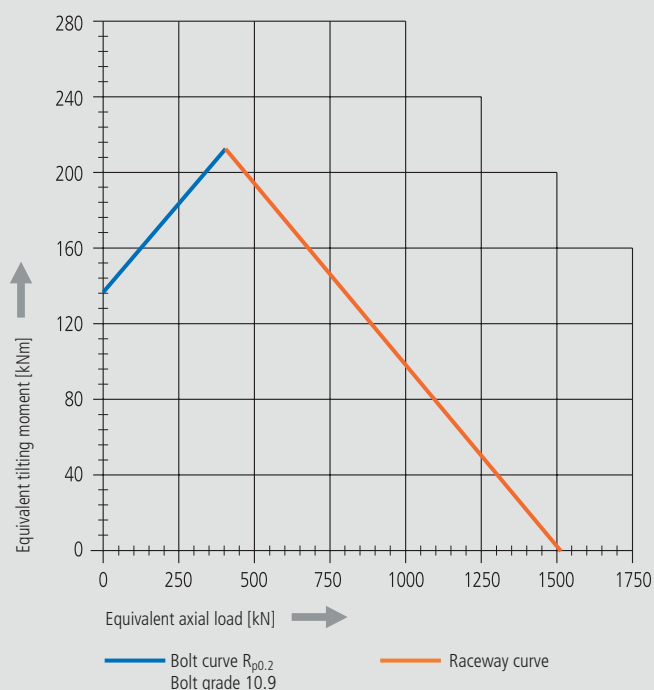
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

Pressure differential	Δp	[bar]	155
Oil flow	Q	[l/min]	28
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	8778

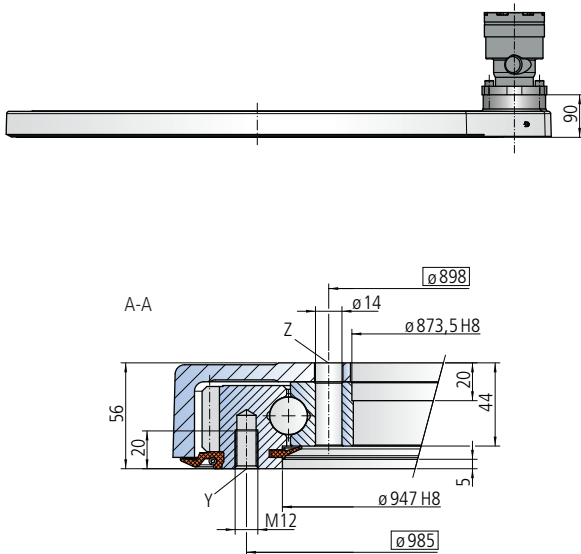
Limiting load diagram for compressive loads



Please always observe the technical information!

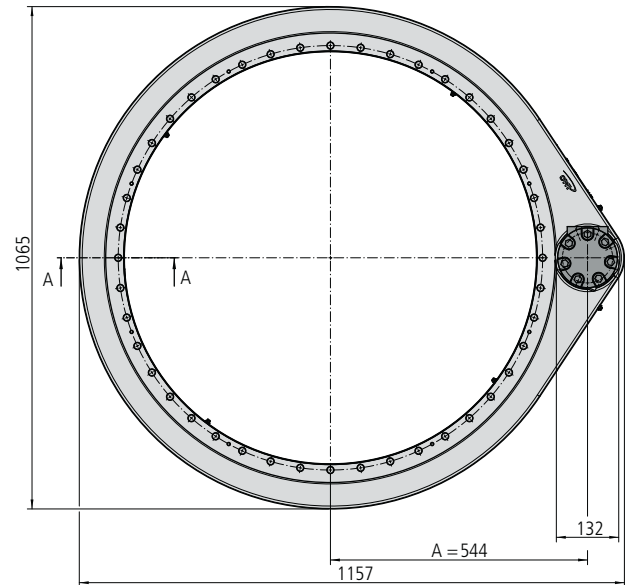
SP-I series

Size SP-I 0941



The mounting structure must support the housing to at least $\phi 941$.

The seal must be supported by the mounting structure to at least $\phi 1061$, in order to guarantee the full sealing effect.
A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 40 drill holes M12-20 deep, evenly distributed
Z = 44 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter
2 conical grease nipples on housing exterior
Slew drive supplied pre-lubricated

Drawing number SP-I 0941/2-10087

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	256
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	17.07
Max. torque	M_{d max}	[Nm]	9728
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	7040
Max. holding torque*	M_{h max}	[Nm]	9728
Static load rating, radial	C_{o rad}	[kN]	630
Static load rating, axial	C_{o ax}	[kN]	1688
Dynamic load rating, radial	C_{rad}	[kN]	260
Dynamic load rating, axial	C_{ax}	[kN]	305
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	115

* Optionally with brake

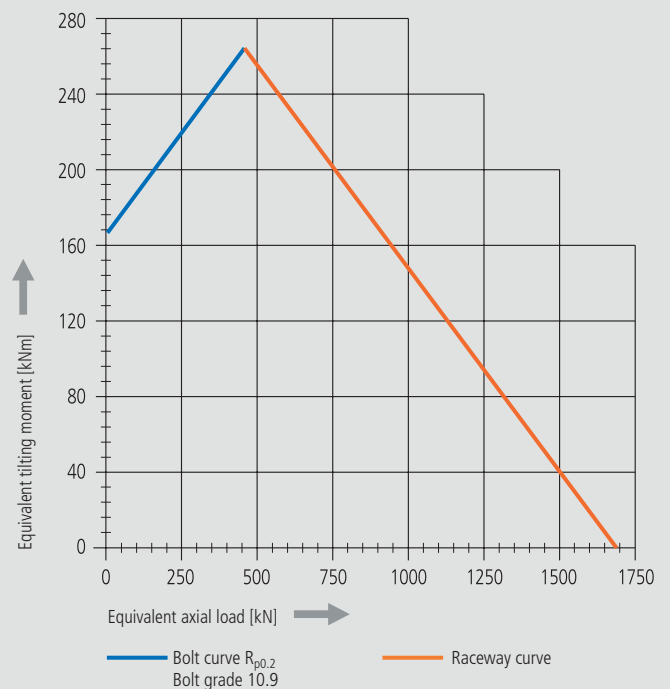
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

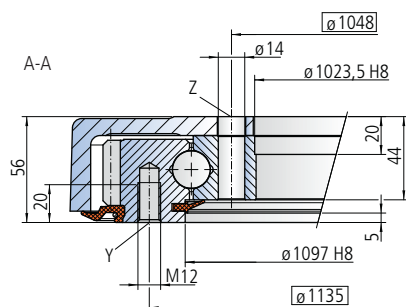
Pressure differential	Δp	[bar]	155
Oil flow	Q	[l/min]	30
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	9728

Limiting load diagram for compressive loads



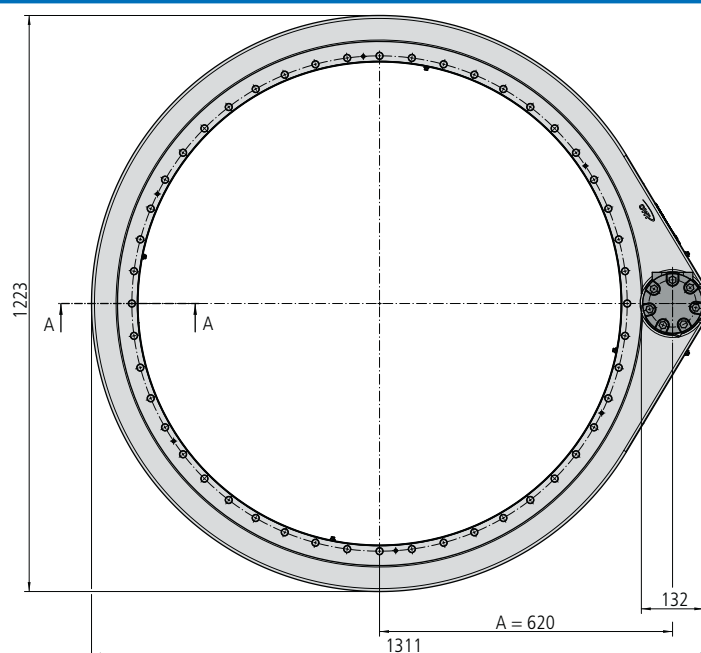
Please always observe the technical information!

Size SP-I 1091



The mounting structure must support the housing to at least $\phi 1091$.

The seal must be supported by the mounting structure to at least $\phi 1213$, in order to guarantee the full sealing effect.
A recess in the mounting structure of 10 mm above the housing is recommended.



Mounting holes

Y = 44 drill holes M12-20 deep, evenly distributed
Z = 48 drill holes $\phi 14$, evenly distributed

Lubricating ports

4 conical grease nipples on internal diameter
2 conical grease nipples on housing exterior
Slew drive supplied pre-lubricated

Drawing number SP-I 1091/2-10088

Module	m	[mm]	4
Number of teeth, wheel	z₂	[-]	294
Number of teeth, pinion	z₁	[-]	15
Overall gear ratio	i	[-]	19.6
Max. torque	M_{d max}	[Nm]	11172
Nom. torque $S_F = 1$ at $n = 5 \text{ min}^{-1}$	M_{d nom}	[Nm]	8085
Max. holding torque*	M_{h max}	[Nm]	11172
Static load rating, radial	C_{o rad}	[kN]	731
Static load rating, axial	C_{o ax}	[kN]	1957
Dynamic load rating, radial	C_{rad}	[kN]	275
Dynamic load rating, axial	C_{ax}	[kN]	321
Weight, incl. 12 kg for hydraulic motor RE300		[kg]	127

* Optionally with brake

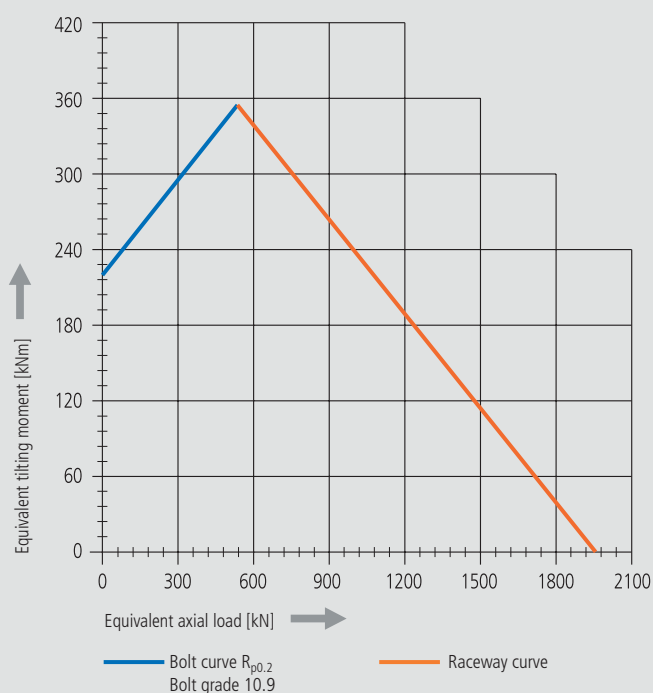
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE300

Pressure differential	Δp	[bar]	150
Oil flow	Q	[l/min]	35
Output speed	n	[min ⁻¹]	5
Max. achievable torque	M_d	[Nm]	11172

Limiting load diagram for compressive loads



Please always observe the technical information!