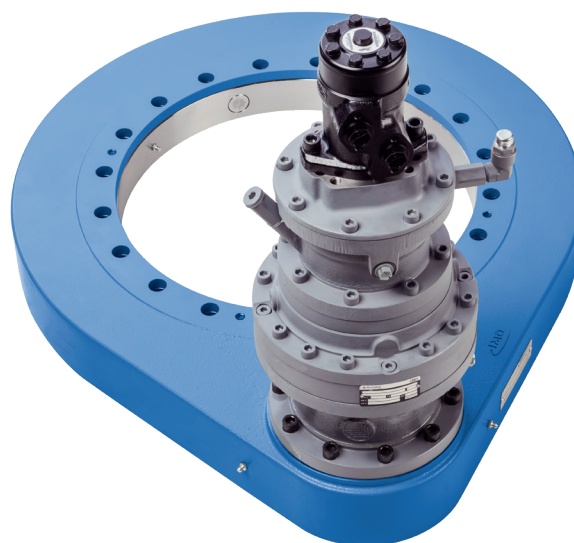
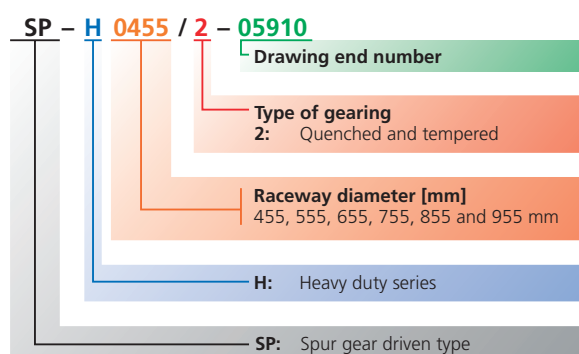


# SP-H series

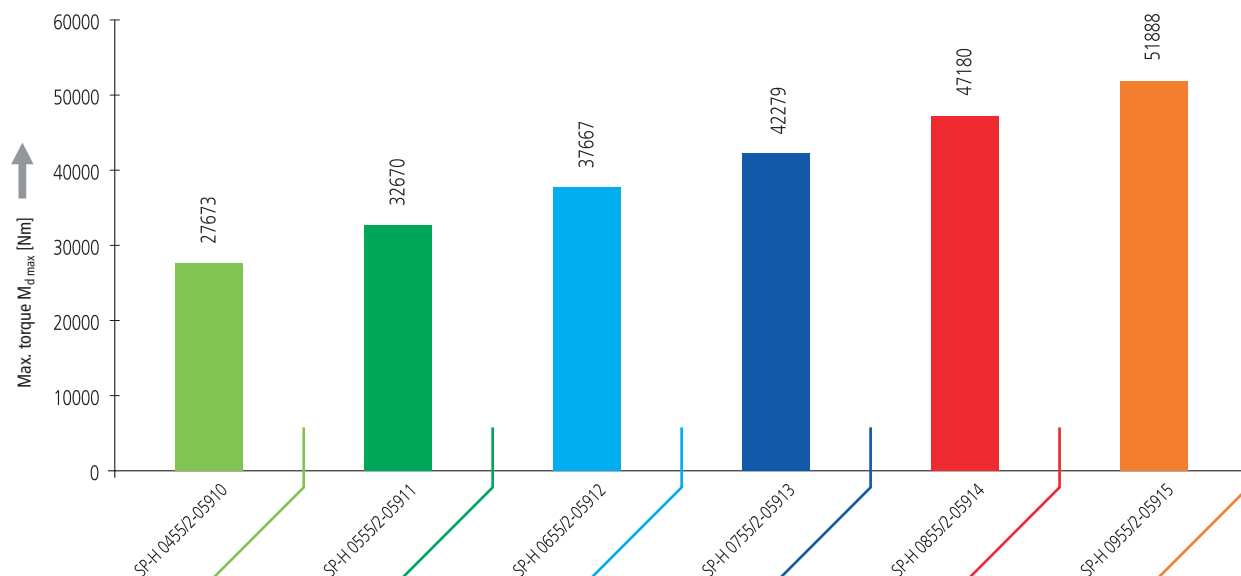
## Series overview



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

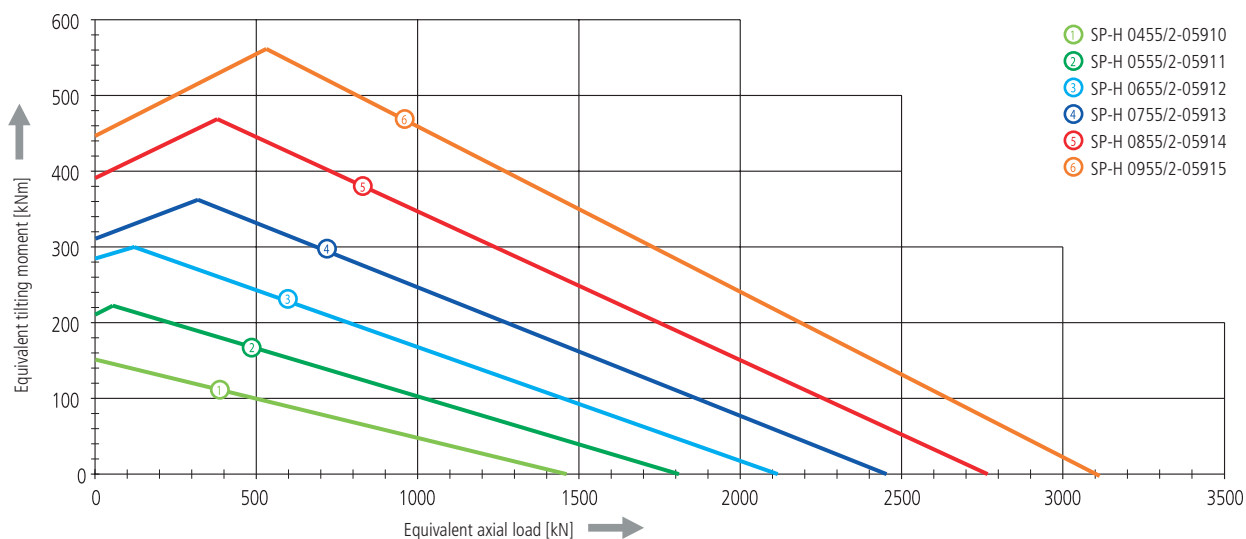
CAUTION: The duty per minute is limited.

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

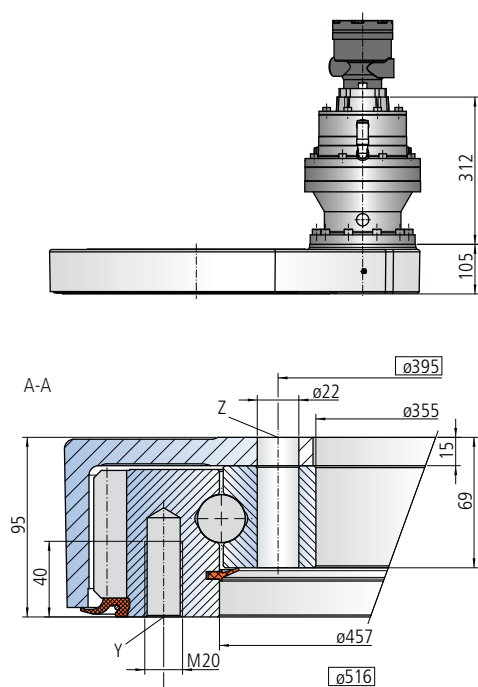


### Limiting load diagrams of the individual sizes for compressive loads

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



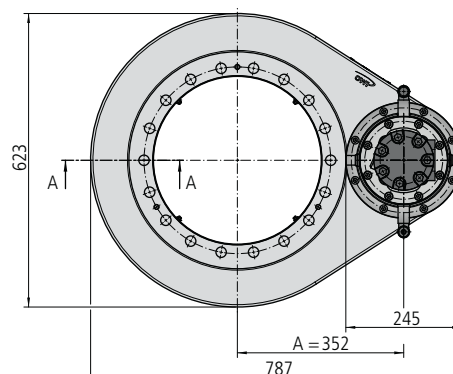
## Size SP-H 0455



The mounting structure must support the housing to at least  $\varnothing 455$ .

The seal must be supported by the mounting structure to at least  $\varnothing 610$ , in order to ensure the full sealing effect.

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



### Mounting holes

Y = 18 drill holes M20-40 deep, evenly distributed  
Z = 18 drill holes  $\varnothing 22$ , 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-H 0455/2-05910			
Module	<b>m</b>	[mm]	8
Number of teeth, wheel	<b>z<sub>2</sub></b>	[-]	72
Number of teeth, pinion	<b>z<sub>1</sub></b>	[-]	15
Slew drive gear ratio	<b>i</b>	[-]	4.8
Overall gear ratio incl. gear box	<b>i<sub>tot</sub></b>	[-]	86.88
Max. torque	<b>M<sub>d max</sub></b>	[Nm]	27673
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	18115
Max. holding torque*	<b>M<sub>h max</sub></b>	[Nm]	27673
Static load rating, radial	<b>C<sub>0 rad</sub></b>	[kN]	552
Static load rating, axial	<b>C<sub>0 ax</sub></b>	[kN]	1477
Dynamic load rating, radial	<b>C<sub>rad</sub></b>	[kN]	280
Dynamic load rating, axial	<b>C<sub>ax</sub></b>	[kN]	326
Weight, incl. 11 kg for hydraulic motor RE160		[kg]	207

\* Optionally with brake

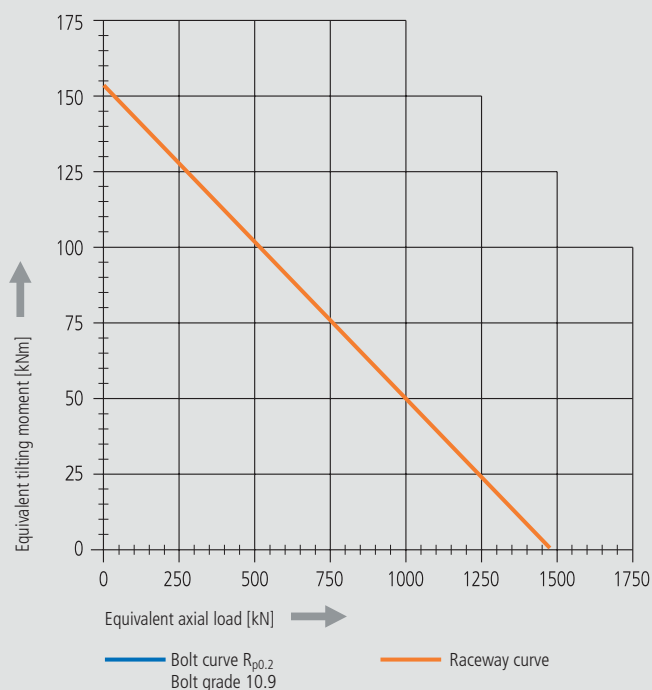
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE160

Pressure differential	$\Delta p$	[bar]	165
Oil flow	$Q$	[l/min]	45
Output speed	$n$	[min <sup>-1</sup> ]	3
Max. achievable torque	$M_d$	[Nm]	27673

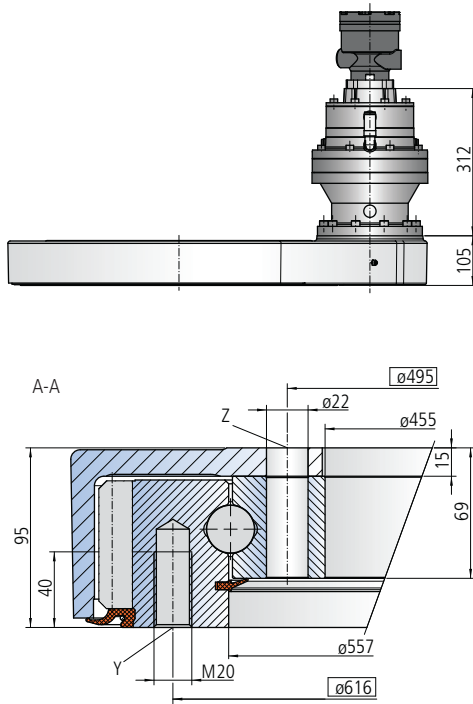
### Limiting load diagram for compressive loads



Please always observe the technical information!

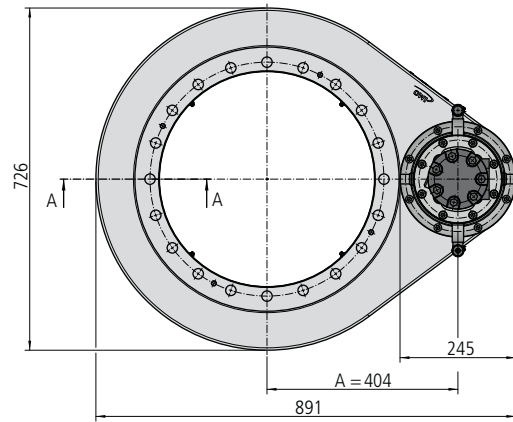
# SP-H series

## Size SP-H 0555



The mounting structure must support the housing to at least  $\phi 555$ .

The seal must be supported by the mounting structure to at least  $\phi 714$ , in order to ensure the full sealing effect.  
A recess in the mounting structure of 10 mm above the housing is recommended.



### Mounting holes

Y = 20 drill holes M20-40 deep, evenly distributed  
Z = 20 drill holes  $\phi 22$ , 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-H 0555/2-05911

Module	<b>m</b>	[mm]	8
Number of teeth, wheel	<b>z<sub>2</sub></b>	[-]	85
Number of teeth, pinion	<b>z<sub>1</sub></b>	[-]	15
Slew drive gear ratio	<b>i</b>	[-]	5.67
Overall gear ratio incl. gear box	<b>i<sub>tot</sub></b>	[-]	102.56
Max. torque	<b>M<sub>d max</sub></b>	[Nm]	32670
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	21590
Max. holding torque*	<b>M<sub>h max</sub></b>	[Nm]	32670
Static load rating, radial	<b>C<sub>o rad</sub></b>	[kN]	673
Static load rating, axial	<b>C<sub>o ax</sub></b>	[kN]	1802
Dynamic load rating, radial	<b>C<sub>rad</sub></b>	[kN]	301
Dynamic load rating, axial	<b>C<sub>ax</sub></b>	[kN]	351
Weight, incl. 11 kg for hydraulic motor RE160		[kg]	226

\* Optionally with brake

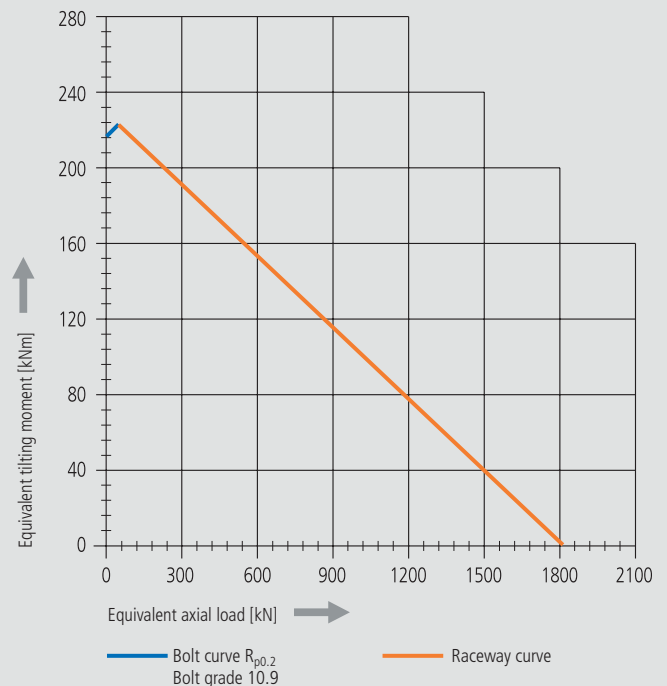
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE160

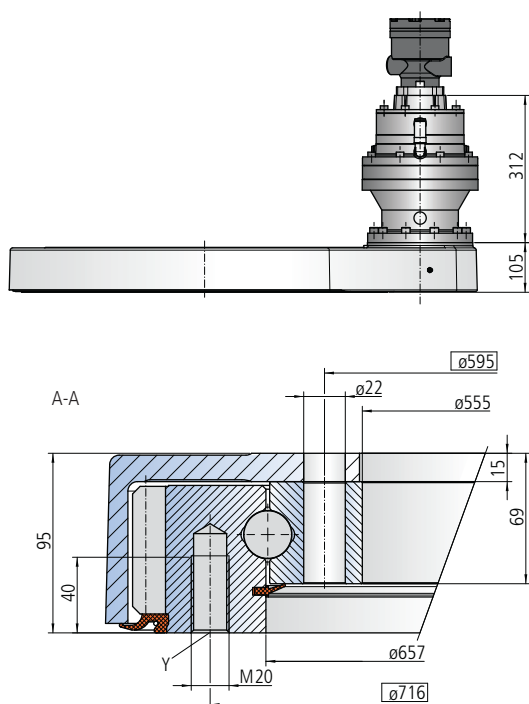
Pressure differential	<b><math>\Delta p</math></b>	[bar]	165
Oil flow	<b>Q</b>	[l/min]	53
Output speed	<b>n</b>	[min <sup>-1</sup> ]	3
Max. achievable torque	<b>M<sub>d</sub></b>	[Nm]	32670

### Limiting load diagram for compressive loads



Please always observe the technical information!

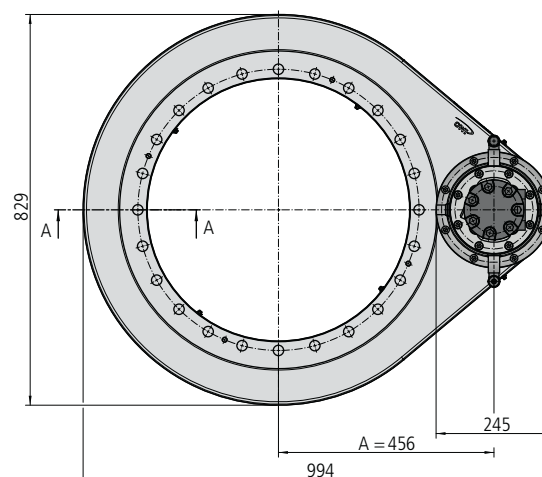
## Size SP-H 0655



The mounting structure must support the housing to at least  $\phi 655$ .

The seal must be supported by the mounting structure to at least  $\varnothing 818$ , in order to ensure the full sealing effect.

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



### Mounting holes

Y = 24 drill holes M20-40 deep, evenly distributed

Z = 24 drill holes  $\varnothing 22$ , 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-H 0655/2-05912			
Module	<b>m</b>	[mm]	8
Number of teeth, wheel	<b>z<sub>2</sub></b>	[-]	98
Number of teeth, pinion	<b>z<sub>1</sub></b>	[-]	15
Slew drive gear ratio	<b>i</b>	[-]	6.53
Overall gear ratio incl. gear box	<b>i<sub>tot</sub></b>	[-]	118.25
Max. torque	<b>M<sub>d max</sub></b>	[Nm]	37667
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	25048
Max. holding torque*	<b>M<sub>h max</sub></b>	[Nm]	37667
Static load rating, radial	<b>C<sub>o rad</sub></b>	[kN]	794
Static load rating, axial	<b>C<sub>o ax</sub></b>	[kN]	2127
Dynamic load rating, radial	<b>C<sub>rad</sub></b>	[kN]	319
Dynamic load rating, axial	<b>C<sub>ax</sub></b>	[kN]	373
Weight, incl. 11 kg for hydraulic motor RE160		[kg]	246

\* Optionally with brake

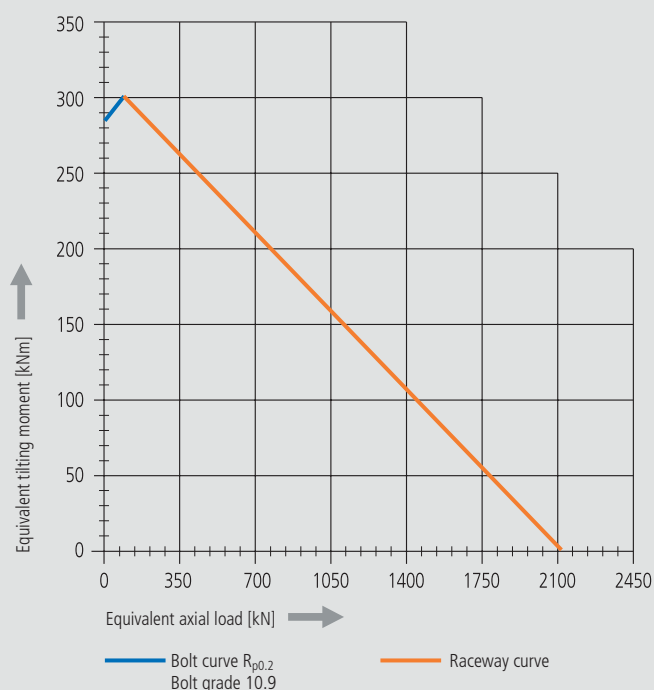
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE160

Pressure differential	$\Delta p$	[bar]	165
Oil flow	$Q$	[l/min]	60
Output speed	$n$	[min <sup>-1</sup> ]	3
Max. achievable torque	$M_d$	[Nm]	37667

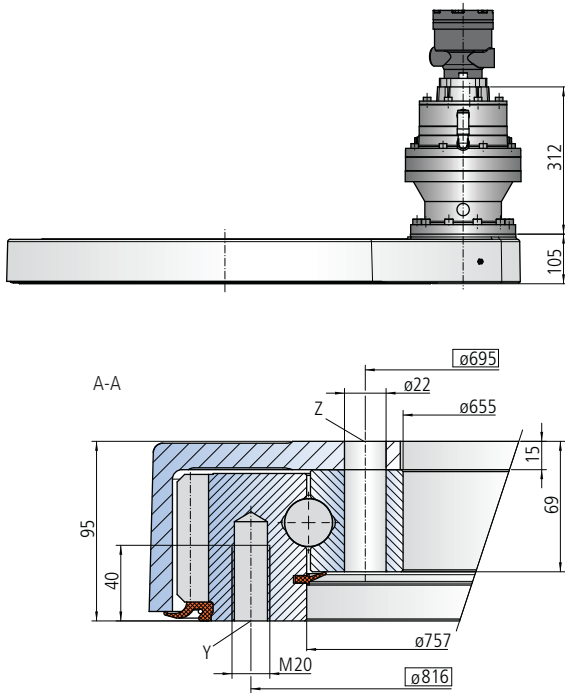
### Limiting load diagram for compressive loads



Please always observe the technical information!

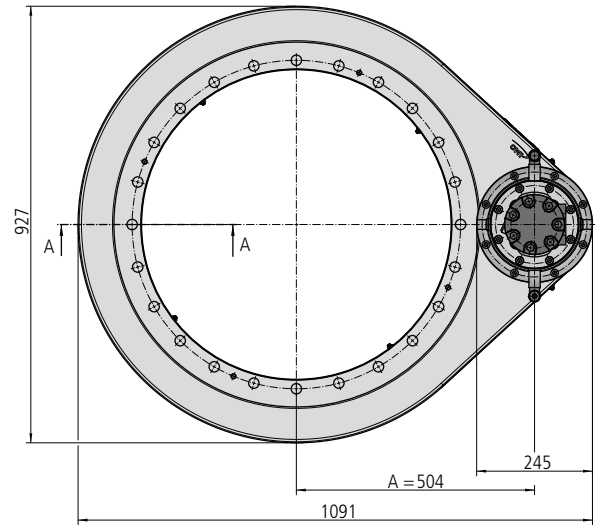
# SP-H series

## Size SP-H 0755



The mounting structure must support the housing to at least  $\phi 755$ .

The seal must be supported by the mounting structure to at least  $\phi 914$ , in order to ensure the full sealing effect.  
A recess in the mounting structure of 10 mm above the housing is recommended.



### Mounting holes

Y = 24 drill holes M20-40 deep, evenly distributed  
Z = 24 drill holes  $\phi 22$ , 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-H 0755/2-05913

Module	<b>m</b>	[mm]	8
Number of teeth, wheel	<b>z<sub>2</sub></b>	[-]	110
Number of teeth, pinion	<b>z<sub>1</sub></b>	[-]	15
Slew drive gear ratio	<b>i</b>	[-]	7.33
Overall gear ratio incl. gear box	<b>i<sub>tot</sub></b>	[-]	132.73
Max. torque	<b>M<sub>d max</sub></b>	[Nm]	42279
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	28204
Max. holding torque*	<b>M<sub>h max</sub></b>	[Nm]	42279
Static load rating, radial	<b>C<sub>o rad</sub></b>	[kN]	916
Static load rating, axial	<b>C<sub>o ax</sub></b>	[kN]	2452
Dynamic load rating, radial	<b>C<sub>rad</sub></b>	[kN]	336
Dynamic load rating, axial	<b>C<sub>ax</sub></b>	[kN]	393
Weight, incl. 11 kg for hydraulic motor RE160		[kg]	268

\* Optionally with brake

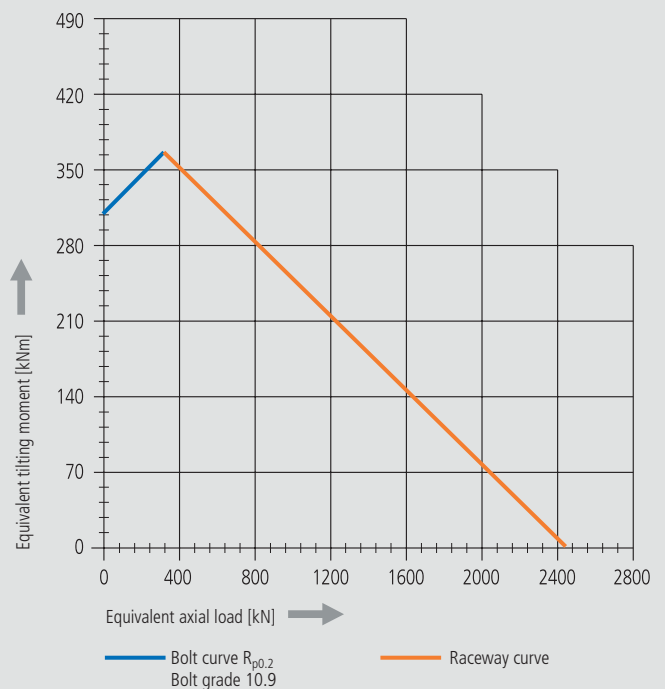
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE160

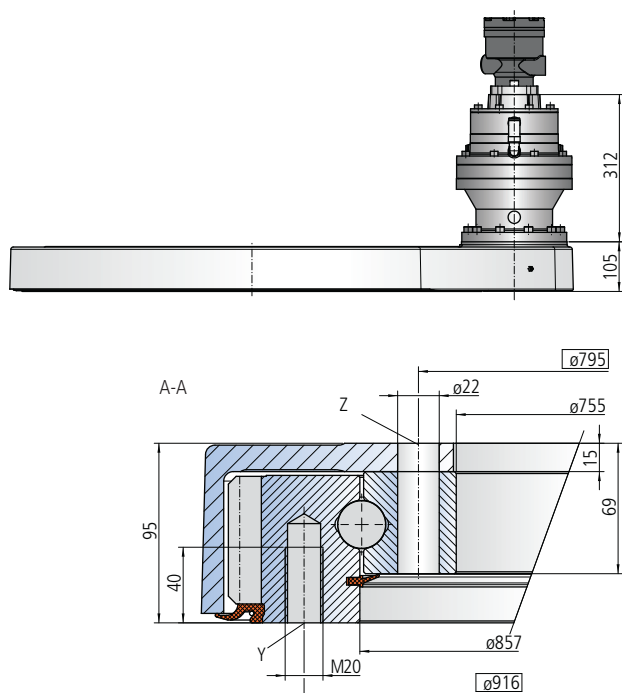
Pressure differential	<b><math>\Delta p</math></b>	[bar]	170
Oil flow	<b>Q</b>	[l/min]	67
Output speed	<b>n</b>	[min <sup>-1</sup> ]	3
Max. achievable torque	<b>M<sub>d</sub></b>	[Nm]	42279

### Limiting load diagram for compressive loads



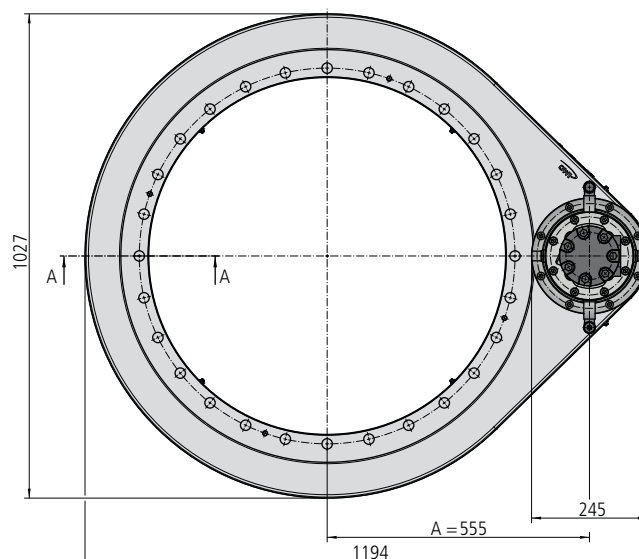
Please always observe the technical information!

## Size SP-H 0855



The mounting structure must support the housing to at least ø855.

The seal must be supported by the mounting structure to at least  $\varnothing 1016$ , in order to ensure the full sealing effect.  
A recess in the mounting structure of 10 mm above the housing is recommended.



### Mounting holes

Y = 28 drill holes M20-40 deep, evenly distributed  
Z = 28 drill holes  $\varnothing 22$ , 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-H 0855/2-05914			
Module	<b>m</b>	[mm]	8
Number of teeth, wheel	<b>z<sub>2</sub></b>	[-]	122
Number of teeth, pinion	<b>z<sub>1</sub></b>	[-]	15
Slew drive gear ratio	<b>i</b>	[-]	8.13
Overall gear ratio incl. gear box	<b>i<sub>tot</sub></b>	[-]	147.21
Max. torque	<b>M<sub>d max</sub></b>	[-]	47180
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	32749
Max. holding torque*	<b>M<sub>h max</sub></b>	[Nm]	47180
Static load rating, radial	<b>C<sub>0 rad</sub></b>	[Nm]	1037
Static load rating, axial	<b>C<sub>0 ax</sub></b>	[kN]	2777
Dynamic load rating, radial	<b>C<sub>rad</sub></b>	[kN]	354
Dynamic load rating, axial	<b>C<sub>ax</sub></b>	[kN]	414
Weight, incl. 11 kg for hydraulic motor RE160		[kg]	289

\* Optionally with brake

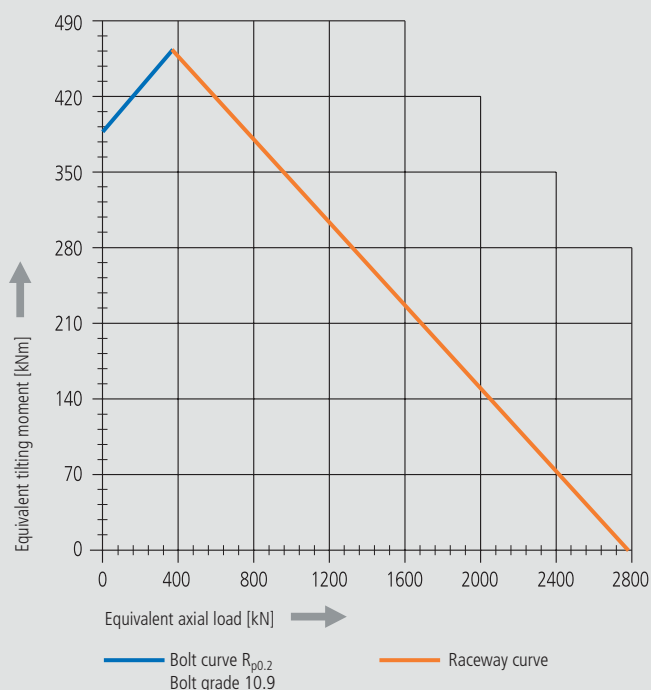
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor RE160

Pressure differential	$\Delta p$	[bar]	175
Oil flow	$Q$	[l/min]	74
Output speed	$n$	[min <sup>-1</sup> ]	3
Max. achievable torque	$M_d$	[Nm]	47180

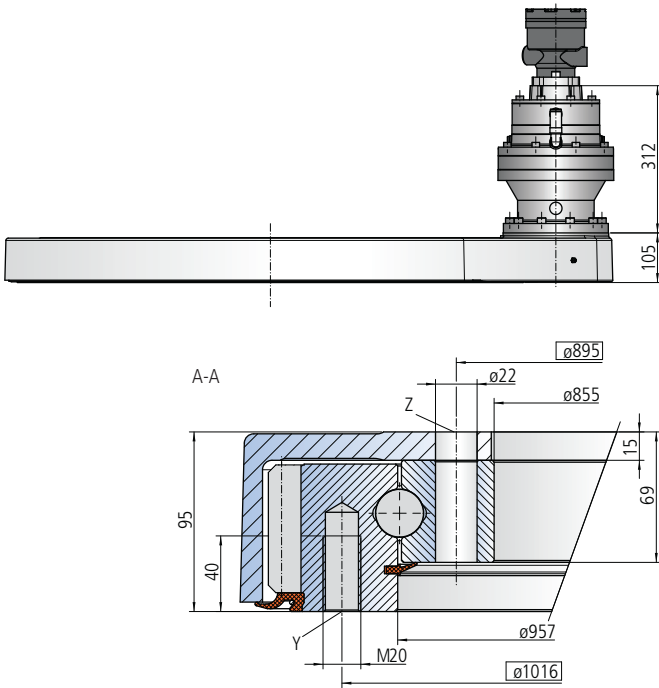
### Limiting load diagram for compressive loads



Please always observe the technical information!

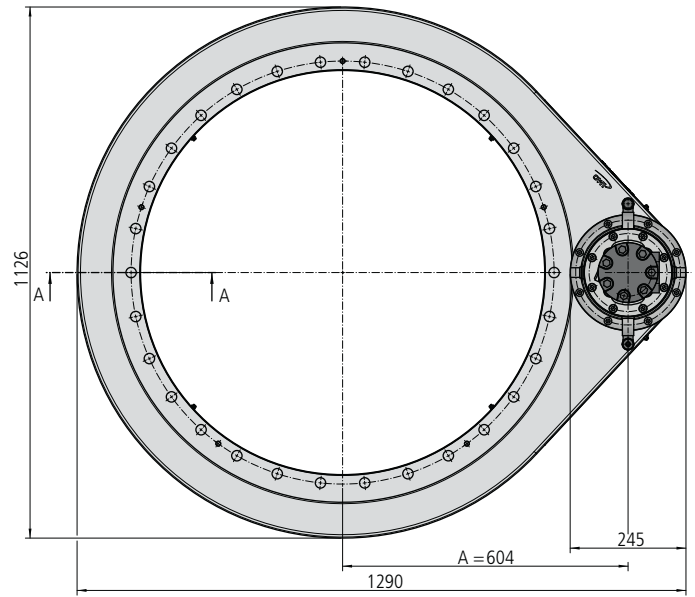
# SP-H series

## Size SP-H 0955



The mounting structure must support the housing to at least  $\phi 955$ .

The seal must be supported by the mounting structure to at least  $\phi 1114$ , in order to ensure the full sealing effect.  
A recess in the mounting structure of 10 mm above the housing is recommended.



### Mounting holes

Y = 30 drill holes M20-40 deep, evenly distributed  
Z = 30 drill holes  $\phi 22$ , 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-H 0955/2-05915

Module	<b>m</b>	[mm]	8
Number of teeth, wheel	<b>z<sub>2</sub></b>	[-]	134
Number of teeth, pinion	<b>z<sub>1</sub></b>	[-]	15
Slew drive gear ratio	<b>i</b>	[-]	8.93
Overall gear ratio incl. gear box	<b>i<sub>tot</sub></b>	[-]	161.69
Max. torque	<b>M<sub>d max</sub></b>	[Nm]	51888
Nom. torque $S_F = 1$ at $n = 3 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	36342
Max. holding torque*	<b>M<sub>h max</sub></b>	[Nm]	51888
Static load rating, radial	<b>C<sub>o rad</sub></b>	[kN]	1159
Static load rating, axial	<b>C<sub>o ax</sub></b>	[kN]	3101
Dynamic load rating, radial	<b>C<sub>rad</sub></b>	[kN]	369
Dynamic load rating, axial	<b>C<sub>ax</sub></b>	[kN]	431
Weight, incl. 10 kg for hydraulic motor OMS125		[kg]	315

\* Optionally with brake

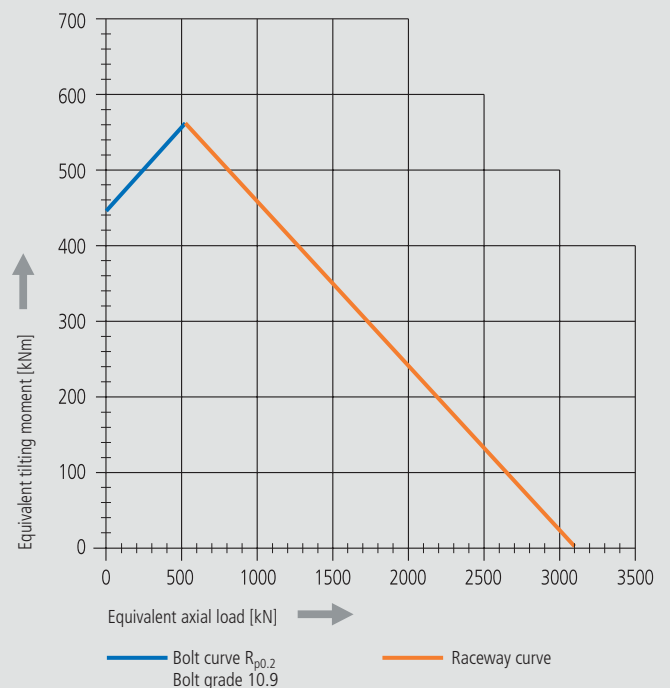
The hydraulic/electric motor is selected according to the actual requirements and customer specification.

Selection example:

Performance data with hydraulic motor OMS125

Pressure differential	<b><math>\Delta p</math></b>	[bar]	200
Oil flow	<b>Q</b>	[l/min]	65
Output speed	<b>n</b>	[min <sup>-1</sup> ]	3
Max. achievable torque	<b>M<sub>d</sub></b>	[Nm]	51888

### Limiting load diagram for compressive loads



Please always observe the technical information!