

# Hydraulic Rotary Cylinders

# **Vérins Hydrauliques Rotatifs**

# *Hydraulische Schwenkzylinder*



## SERIE SP

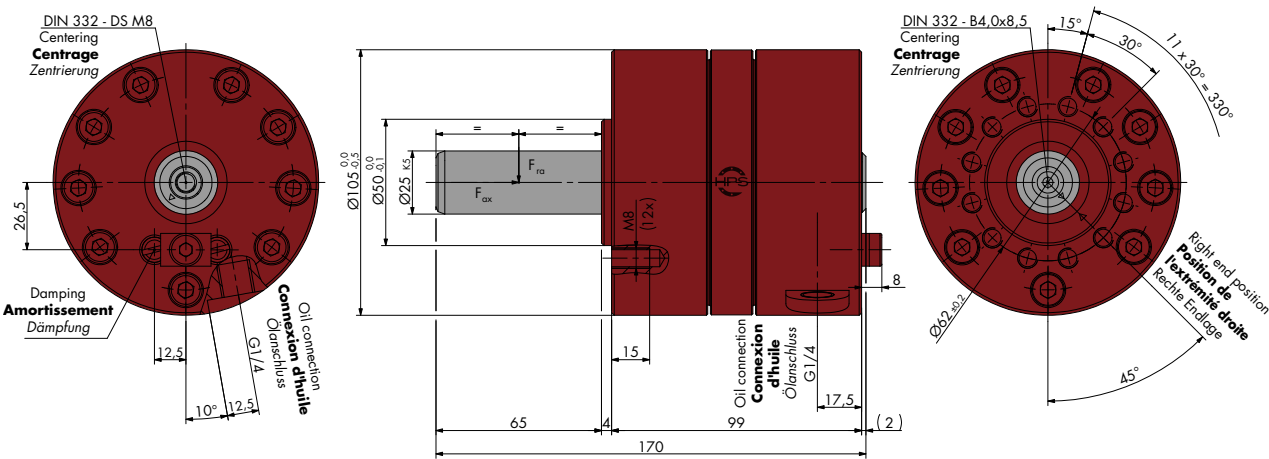
Super Power Rotary Cylinder / **Vérin Rotatif Super Power**  
*Super-Power-Schwenkzylinder*

Working Pressure / **Pression de Service** / Betriebsdruck: up to / **jusqu'à** / bis 300 bar

Rotation Angle / **Angle de Rotation** / Schwenkwinkel: up to / **jusqu'à** / bis 270°

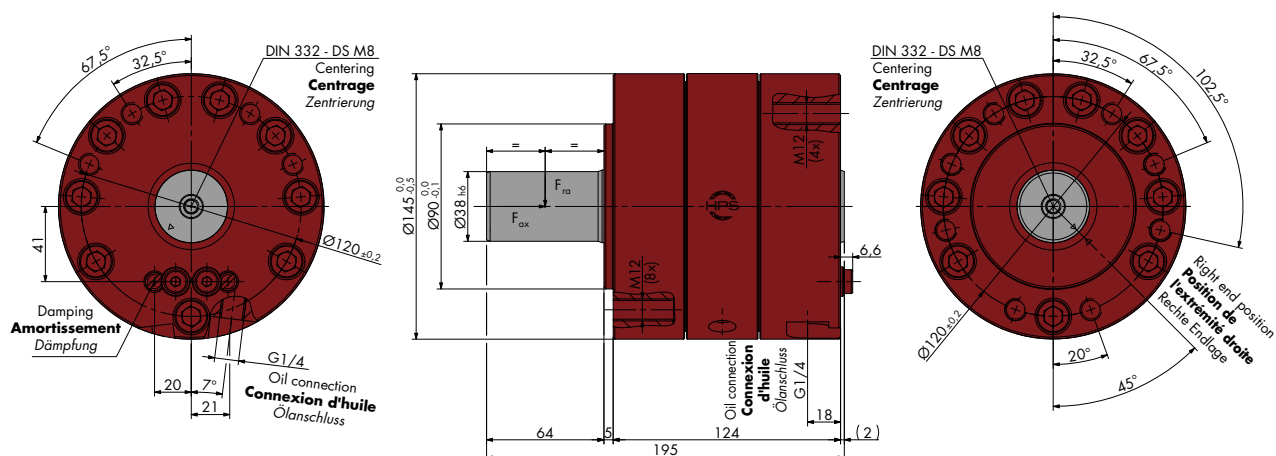


SP 11 - SP 11 D



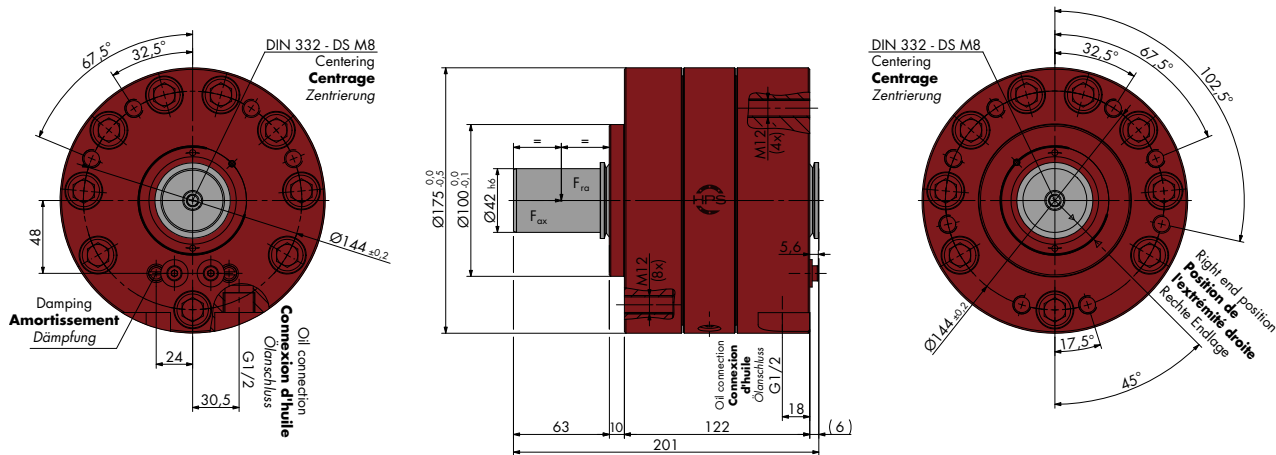
| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                          | SP 11 | SP 11 D |
|--------------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                      | 300   | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                        | 0,76  | 1,52    |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                     | 228   | 228     |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                               | 270   | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                             | 0,043 | 0,030   |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                            | 540   | 540     |
| max. F <sub>ra</sub> [N]<br><b>Force radiale max. F<sub>ra</sub> [N]</b><br><i>max. F<sub>ra</sub> [N]</i>                     | 750   | 750     |
| max. F <sub>ax</sub> dyn. [N]<br><b>Force axiale dynamique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> dyn. [N]</i>  | 500   | 500     |
| max. F <sub>ax</sub> stat. [N]<br><b>Force axiale statique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> stat. [N]</i> | 1 500 | 1 500   |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                       | 10    | 10      |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                        | 5,95  | 6,05    |

## SP 12 - SP 12 D



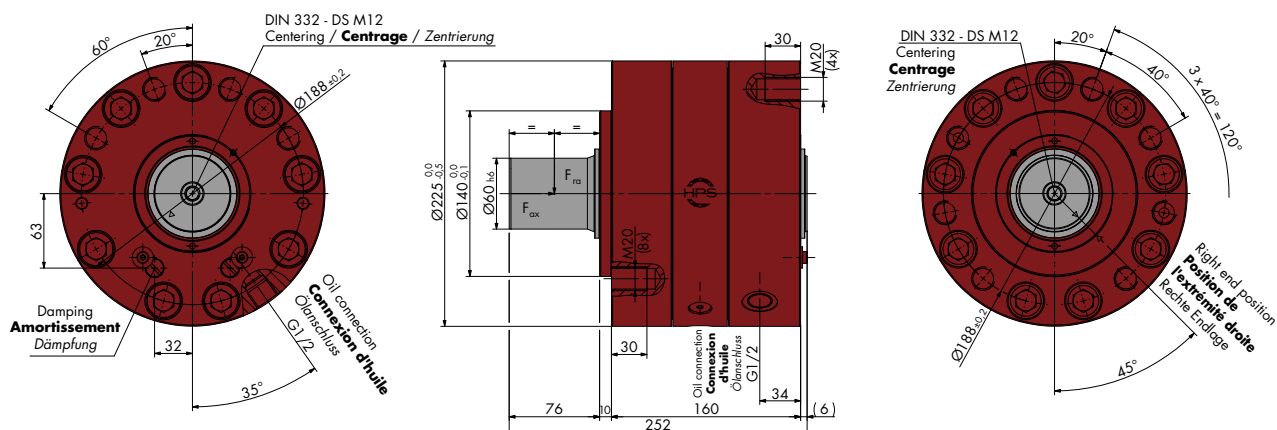
| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                             | SP 12 | SP 12 D |
|-----------------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                         | 300   | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                           | 3     | 6       |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                        | 900   | 900     |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                                  | 270   | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                                | 0,168 | 0,112   |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                               | 360   | 360     |
| max. $F_{ra}$ [N]<br><b>Force radiale max. <math>F_{ra}</math> [N]</b><br><i>max. <math>F_{ra}</math> [N]</i>                     | 2 000 | 2 000   |
| max. $F_{ax}$ dyn. [N]<br><b>Force axiale dynamique max. <math>F_{ax}</math> [N]</b><br><i>max. <math>F_{ax}</math> dyn. [N]</i>  | 800   | 800     |
| max. $F_{ax}$ stat. [N]<br><b>Force axiale statique max. <math>F_{ax}</math> [N]</b><br><i>max. <math>F_{ax}</math> stat. [N]</i> | 2 400 | 2 400   |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                          | 15    | 15      |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                           | 14,2  | 14,4    |

SP 13 - SP 13 D



| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                          | SP 13 | SP 13 D |
|--------------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                      | 300   | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                        | 4,4   | 8,8     |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                     | 1 320 | 1 320   |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                               | 270   | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                             | 0,247 | 0,165   |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                            | 290   | 290     |
| max. F <sub>ra</sub> [N]<br><b>Force radiale max. F<sub>ra</sub> [N]</b><br><i>max. F<sub>ra</sub> [N]</i>                     | 3 000 | 3 000   |
| max. F <sub>ax</sub> dyn. [N]<br><b>Force axiale dynamique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> dyn. [N]</i>  | 1 200 | 1 200   |
| max. F <sub>ax</sub> stat. [N]<br><b>Force axiale statique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> stat. [N]</i> | 3 600 | 3 600   |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                       | 15    | 15      |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                        | 20,5  | 20,9    |

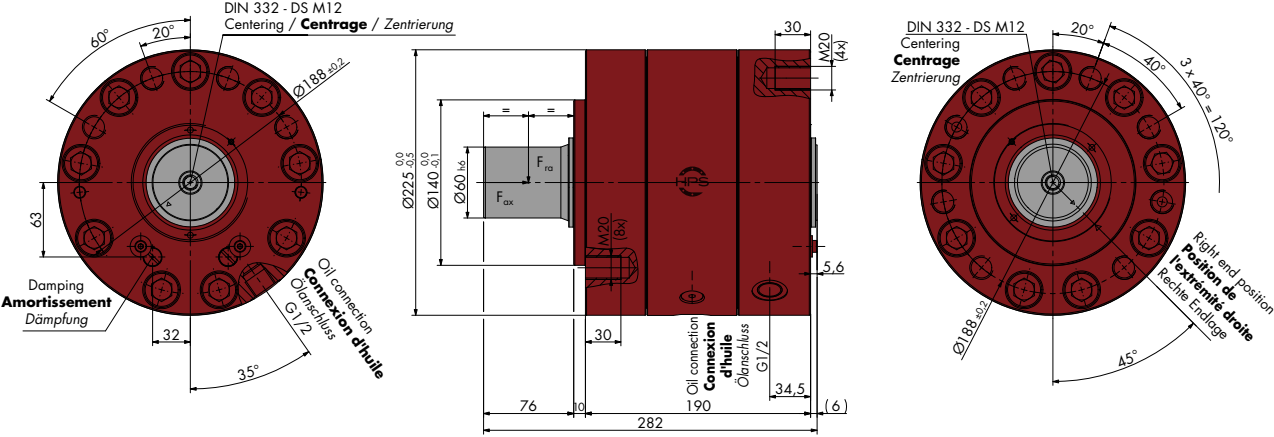
## SP 14 - SP 14 D



| Characteristics<br><b>Caractéristiques</b><br>Technische Daten                                                  | SP 14 | SP 14 D |
|-----------------------------------------------------------------------------------------------------------------|-------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br>max. Betriebsdruck [bar]              | 300   | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br>Drehmoment [Nm/bar]                                                | 8,9   | 17,8    |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br>max. Drehmoment [Nm]                                             | 2 670 | 2 670   |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br>Schwenkwinkel [°]                                       | 270   | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br>Füllmenge [l]                                     | 0,50  | 0,33    |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br>Drehgeschwindigkeit [°/sec]                    | 250   | 250     |
| max. $F_{ra}$ [N]<br><b>Force radiale max. <math>F_{ra}</math> [N]</b><br>max. $F_{ra}$ [N]                     | 7 500 | 7 500   |
| max. $F_{ax}$ dyn. [N]<br><b>Force axiale dynamique max. <math>F_{ax}</math> [N]</b><br>max. $F_{ax}$ dyn. [N]  | 2 500 | 2 500   |
| max. $F_{ax}$ stat. [N]<br><b>Force axiale statique max. <math>F_{ax}</math> [N]</b><br>max. $F_{ax}$ stat. [N] | 7 500 | 7 500   |
| End position damping<br><b>Amortissement de fin de course</b><br>Endlagendämpfung                               | 8     | 8       |
| Weight [kg]<br><b>Poids [kg]</b><br>Gewicht [kg]                                                                | 51    | 54      |

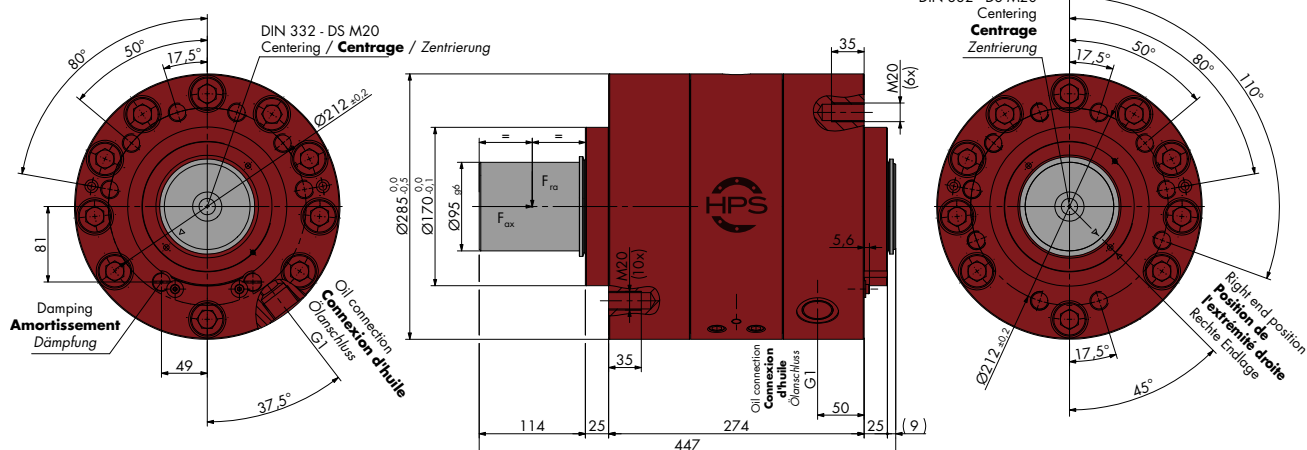


SP 15 - SP 15 D



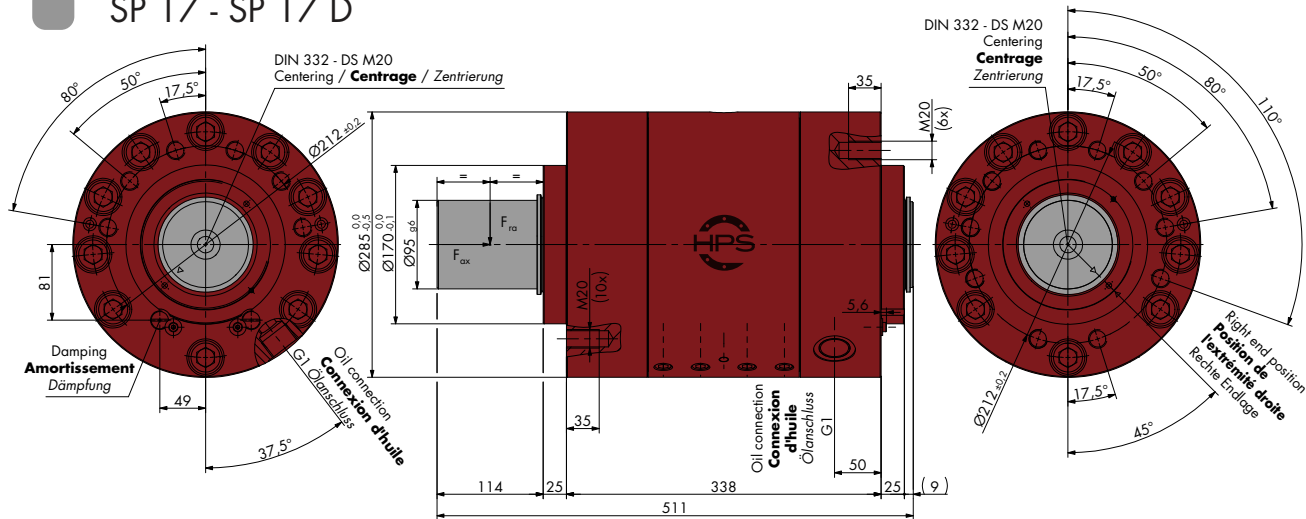
| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                          | SP 15 | SP 15 D |
|--------------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                      | 300   | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                        | 13,4  | 26,8    |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                     | 4 020 | 4 020   |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                               | 270   | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                             | 0,75  | 0,50    |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                            | 200   | 200     |
| max. F <sub>ra</sub> [N]<br><b>Force radiale max. F<sub>ra</sub> [N]</b><br><i>max. F<sub>ra</sub> [N]</i>                     | 7 500 | 7 500   |
| max. F <sub>ax</sub> dyn. [N]<br><b>Force axiale dynamique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> dyn. [N]</i>  | 2 500 | 2 500   |
| max. F <sub>ax</sub> stat. [N]<br><b>Force axiale statique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> stat. [N]</i> | 7 500 | 7 500   |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                       | 8     | 8       |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                        | 54    | 65      |

SP 16 - SP 16 D



| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                             | SP 16  | SP 16 D |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                         | 300    | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                           | 29,8   | 59,6    |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                        | 8 940  | 8 940   |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                                  | 270    | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                                | 1,66   | 1,11    |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                               | 180    | 180     |
| max. $F_{ra}$ [N]<br><b>Force radiale max. <math>F_{ra}</math> [N]</b><br><i>max. <math>F_{ra}</math> [N]</i>                     | 20 000 | 20 000  |
| max. $F_{ax}$ dyn. [N]<br><b>Force axiale dynamique max. <math>F_{ax}</math> [N]</b><br><i>max. <math>F_{ax}</math> dyn. [N]</i>  | 3 000  | 3 000   |
| max. $F_{ax}$ stat. [N]<br><b>Force axiale statique max. <math>F_{ax}</math> [N]</b><br><i>max. <math>F_{ax}</math> stat. [N]</i> | 9 000  | 9 000   |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                          | 13     | 13      |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                           | 130    | 136     |

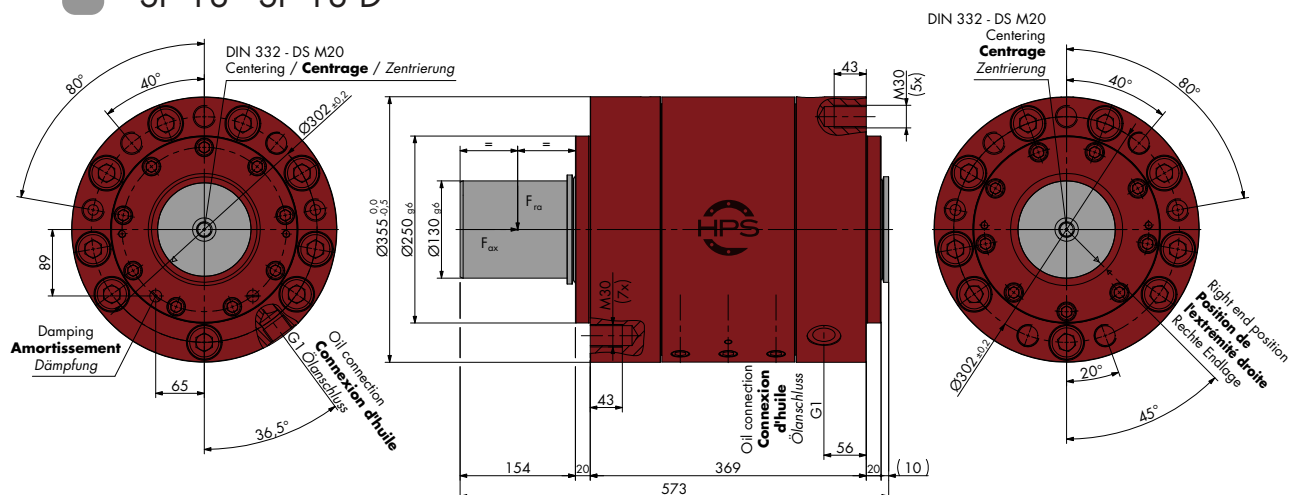
SP 17 - SP 17 D



| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                          | SP 17  | SP 17 D |
|--------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                      | 300    | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                        | 46,7   | 93,4    |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                     | 14 010 | 14 010  |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                               | 270    | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                             | 2,6    | 1,73    |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                            | 150    | 150     |
| max. F <sub>ra</sub> [N]<br><b>Force radiale max. F<sub>ra</sub> [N]</b><br><i>max. F<sub>ra</sub> [N]</i>                     | 20 000 | 20 000  |
| max. F <sub>ax</sub> dyn. [N]<br><b>Force axiale dynamique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> dyn. [N]</i>  | 3 000  | 3 000   |
| max. F <sub>ax</sub> stat. [N]<br><b>Force axiale statique max. F<sub>ax</sub> [N]</b><br><i>max. F<sub>ax</sub> stat. [N]</i> | 9 000  | 9 000   |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                       | 13     | 13      |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                        | 170    | 176     |

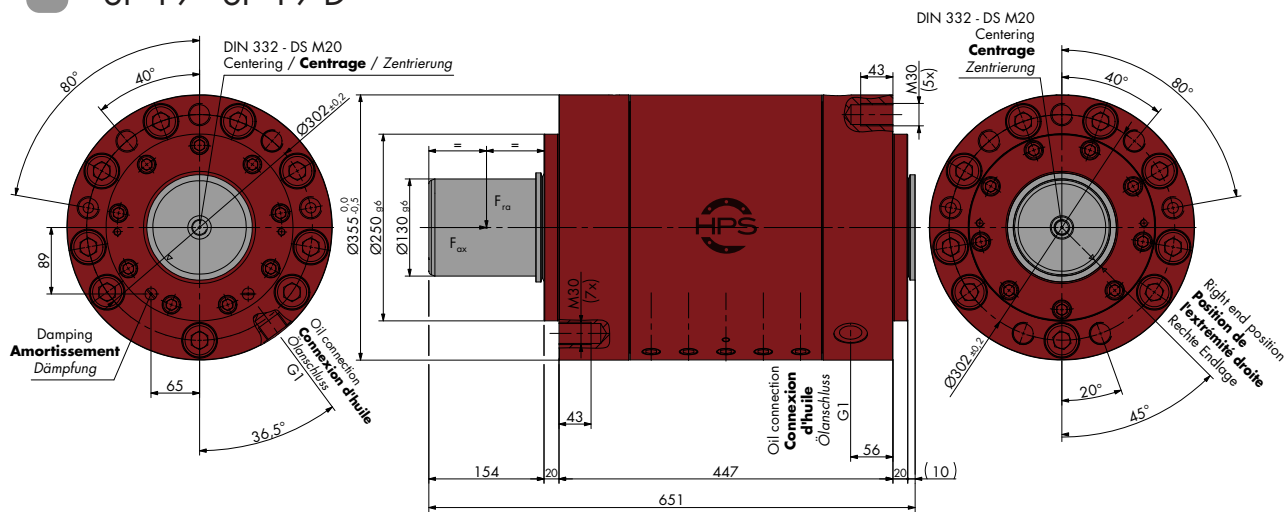


## SP 18 - SP 18 D



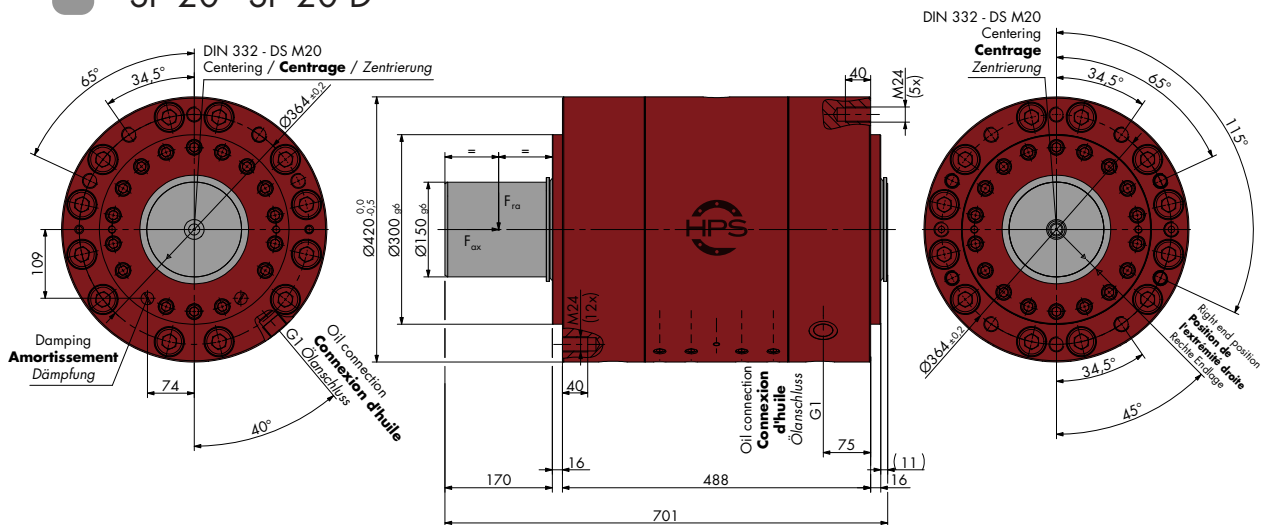
| Characteristics<br><b>Caractéristiques</b><br>Technische Daten                                                  | SP 18  | SP 18 D |
|-----------------------------------------------------------------------------------------------------------------|--------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br>max. Betriebsdruck [bar]              | 300    | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br>Drehmoment [Nm/bar]                                                | 76,7   | 153,4   |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br>max. Drehmoment [Nm]                                             | 23 010 | 23 010  |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br>Schwenkwinkel [°]                                       | 270    | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br>Füllmenge [l]                                     | 6      | 4       |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br>Drehgeschwindigkeit [°/sec]                    | 150    | 150     |
| max. $F_{ra}$ [N]<br><b>Force radiale max. <math>F_{ra}</math> [N]</b><br>max. $F_{ra}$ [N]                     | 25 000 | 25 000  |
| max. $F_{ax}$ dyn. [N]<br><b>Force axiale dynamique max. <math>F_{ax}</math> [N]</b><br>max. $F_{ax}$ dyn. [N]  | 4 000  | 4 000   |
| max. $F_{ax}$ stat. [N]<br><b>Force axiale statique max. <math>F_{ax}</math> [N]</b><br>max. $F_{ax}$ stat. [N] | 12 000 | 12 000  |
| End position damping<br><b>Amortissement de fin de course</b><br>Endlagendämpfung                               | 10     | 10      |
| Weight [kg]<br><b>Poids [kg]</b><br>Gewicht [kg]                                                                | 290    | 297     |

SP 19 - SP 19 D



| Characteristics<br><b>Caractéristiques</b><br><i>Technische Daten</i>                                                             | SP 19  | SP 19 D |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br><i>max. Betriebsdruck [bar]</i>                         | 300    | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br><i>Drehmoment [Nm/bar]</i>                                                           | 107,3  | 214,6   |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br><i>max. Drehmoment [Nm]</i>                                                        | 32 200 | 32 200  |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br><i>Schwenkwinkel [°]</i>                                                  | 270    | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br><i>Füllmenge [l]</i>                                                | 7,24   | 4,82    |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br><i>Drehgeschwindigkeit [°/sec]</i>                               | 150    | 150     |
| max. $F_{ra}$ [N]<br><b>Force radiale max. <math>F_{ra}</math> [N]</b><br><i>max. <math>F_{ra}</math> [N]</i>                     | 25 000 | 25 000  |
| max. $F_{ax}$ dyn. [N]<br><b>Force axiale dynamique max. <math>F_{ax}</math> [N]</b><br><i>max. <math>F_{ax}</math> dyn. [N]</i>  | 4 000  | 4 000   |
| max. $F_{ax}$ stat. [N]<br><b>Force axiale statique max. <math>F_{ax}</math> [N]</b><br><i>max. <math>F_{ax}</math> stat. [N]</i> | 12 000 | 12 000  |
| End position damping<br><b>Amortissement de fin de course</b><br><i>Endlagendämpfung</i>                                          | 10     | 10      |
| Weight [kg]<br><b>Poids [kg]</b><br><i>Gewicht [kg]</i>                                                                           | 350    | 360     |

SP 20 - SP 20 D



| Characteristics<br><b>Caractéristiques</b><br>Technische Daten                                                  | SP 20  | SP 20 D |
|-----------------------------------------------------------------------------------------------------------------|--------|---------|
| Max. Operating Pressure [bar]<br><b>Pression de service max. [bar]</b><br>max. Betriebsdruck [bar]              | 300    | 150     |
| Torque [Nm/bar]<br><b>Couple [Nm/bar]</b><br>Drehmoment [Nm/bar]                                                | 160    | 320     |
| Max. Torque [Nm]<br><b>Couple max. [Nm]</b><br>max. Drehmoment [Nm]                                             | 48 000 | 48 000  |
| Angular Movement [°]<br><b>Angle de rotation [°]</b><br>Schwenkwinkel [°]                                       | 270    | 90      |
| Filling Capacity [l]<br><b>Capacité de remplissage [l]</b><br>Füllmenge [l]                                     | 9      | 6       |
| Speed of Rotation [°/sec]<br><b>Vitesse de rotation [°/s]</b><br>Drehgeschwindigkeit [°/sec]                    | 150    | 150     |
| max. $F_{ra}$ [N]<br><b>Force radiale max. <math>F_{ra}</math> [N]</b><br>max. $F_{ra}$ [N]                     | 30 000 | 30 000  |
| max. $F_{ax}$ dyn. [N]<br><b>Force axiale dynamique max. <math>F_{ax}</math> [N]</b><br>max. $F_{ax}$ dyn. [N]  | 5 000  | 5 000   |
| max. $F_{ax}$ stat. [N]<br><b>Force axiale statique max. <math>F_{ax}</math> [N]</b><br>max. $F_{ax}$ stat. [N] | 15 000 | 15 000  |
| End position damping<br><b>Amortissement de fin de course</b><br>Endlagendämpfung                               | 10     | 10      |
| Weight [kg]<br><b>Poids [kg]</b><br>Gewicht [kg]                                                                | 420    | 440     |

HOW TO ORDER / **COMMENT COMMANDER** /  
REFERENZANGABE

|                                   |                                        |     |
|-----------------------------------|----------------------------------------|-----|
| Serie / <b>Série</b> / Serie      | Cylinder / <b>Vérin</b> / Zylinder     | SP  |
| Type / <b>Type</b> / Typ          | 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 | *** |
| Option / <b>Option</b> / Optionen | D                                      | *** |

- Available Options (on request):
- Shaft End: Splined / Toothed / Keyed
  - Rotation Angle Limitation Available
- Options disponibles (sur demande) :**
- **Extrémité d'arbre : Cannelée / Dentée / Avec clavette**
  - **Limitation de l'angle de rotation disponible**

- Verfügbare Optionen (auf Anfrage):
- Wellenende: Keilprofil / Zahnprofil / Passfeder
  - Schwenkwinkelbegrenzung möglich

Replaceable Damping / **Amortissement remplaçable** / Dämpfung austauschbar

Internal stop only with end-position damping. / **Butée interne uniquement avec amortissement de fin de course.** /  
Interner Anschlag nur mit Endlagendämpfung.

EXAMPLE / **EXEMPLE** / BEISPIELANGABE

|                              |                          |                                   |
|------------------------------|--------------------------|-----------------------------------|
| Serie / <b>Série</b> / Serie | Type / <b>Type</b> / Typ | Option / <b>Option</b> / Optionen |
| SP                           | 18                       | D                                 |



NOTES







**HEADQUARTERS:**  
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