



## Product Specifications sheet SH Series



A hydraulic thruster system is the natural choice when extensive thruster usage or long run cycles are required. We design our hydraulic systems with the style needed for pleasure craft and the reliability necessary for commercial use.

For many vessels, a hydraulic system offers an economic advantage because of the possibility to run several systems onboard from a centralized hydraulic power source. This will save cost on the individual components so that the complete package ends up with a more favorable cost compared to running all items with individual DC electric motors. Equipment that is often powered by a centralized hydraulic system includes windlasses, stabilizers, winches, cranes, furling systems and lifting mechanisms. There are many different ways of designing hydraulic systems, and some solutions are better for specific applications than others. Side-Power hydraulic systems are designed to provide outstanding performance and flexibility to efficiently support any on-board hydraulic equipment that it makes sense to power from a centralized hydraulic system.

With the SH series you get all the important and unique Side-Power features and qualities - why settle for less!

### Declaration of Conformity

We, Sleipner Motor AS hereby Declare that following Side-Power SH thruster products complies with the EC Directives and Standards:

| Directive 2013/53/EU Recreational Craft Directive<br>Directive 2006/42/EC Machinery Safety |                          |                      |
|--|--------------------------|----------------------|
| SH Series  | 2006/42 Machinery safety | EN 1037:1995+A1:2008 |
| Gearleg  | 2006/42 Machinery safety | EN 1037:1995+A1:2008 |

Fredrikstad 14th of February 2017

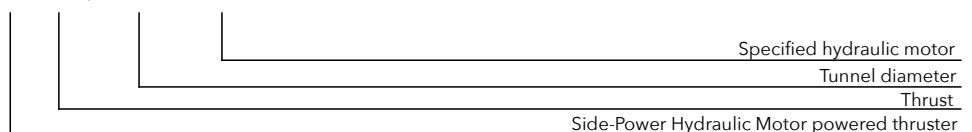
Arne K Skauen  
Managing Director, Sleipner Motor AS

### Technical specifications

- Motor:** Hydraulic type
- Gear house:** Seawater resistant bronze
- Gears:** Hardened precision gears
- Lubrication:** Oil bath from tank (gear oil EP 90)
- Bearings:** Angular contact ball bearing at propellershaft and combination of ball bearing and needle bearing at driveshaft.
- Material:** Seawater resistant bronze, protected with anode
- Motor bracket:** Seawater resistant aluminium
- Tunnel:** Cross spun with rowing G.R.P tunnel  
Steel & aluminum tunnels available at request.
- Propellers:** Symmetrical 4 blade kaplan propeller, fibreglass reinforced composite. Or, 5-blade skew "Q-PROP"
- Control panel:** Not supplied as standard
- Safety:** Flexible coupling between hydraulic-motor and driveshaft protects gearsystem if propeller gets jammed.

### Description of product/article number

#### SH xxx / xxx TC-X





## Technical specifications and measurements

- Actual performances will vary for each installation depending on many factors.
- Specifications shown here are based on a thruster installed at a depth equal to one tunnel diameter and with Hydraulic powered thruster as shown.



### SH 100/185 T



|                                    |                    |
|------------------------------------|--------------------|
| Light duty thrust up to (kg • lbs) | 100 • 220          |
| Heavy duty thrust up to (kg • lbs) | 80 • 176           |
| Typical boat size (ft • m)         | 30' - 34' • 9 - 16 |
| Tunnel I.D. (mm • in)              | 185 • 7.28"        |
| Propulsion system                  | Twin               |
| Hydraulic power up to (kw • Hp)    | 6.9 • 9.3          |
| Weight* (kg • lbs)                 | 9.0 • 19.8         |
| Item Code                          | SH100/185T-xxx     |

#### Measurements

|                         |            |
|-------------------------|------------|
| A (mm • in)             | 185 • 7.28 |
| B (mm • in)             | 195 • 7.64 |
| B max. (mm • in)        | 212 • 8.34 |
| C min. (mm • in)        | 200 • 7.87 |
| D (mm • in)             | 170 • 6.70 |
| D recommended (mm • in) | 340 • 13.4 |
| E min. (mm • in)        | 6 • 0.24   |
| E max. (mm • in)        | 8 • 0.31   |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 172•76.72 |
| G (mm•in)             | 256•10.08 |
| C min. (mm•in)        | 150•5.91  |
| H max. (mm•in)        | 35•1.38   |
| Tunnel length (mm•in) | 337•13.27 |
| Item code:            |           |
| Stern thruster kit    | 90086i    |
| Cowls - short model   | 90075     |
| Cowls - long model    | 90077     |



### SH 160/215 T



|                                    |                     |
|------------------------------------|---------------------|
| Light duty thrust up to (kg • lbs) | 160 • 352           |
| Heavy duty thrust up to (kg • lbs) | 140 • 308           |
| Typical boat size (ft • m)         | 35' - 62' • 11 - 19 |
| Tunnel I.D. (mm • in)              | 215 • 8.46"         |
| Propulsion system                  | Twin                |
| Hydraulic power up to (kw • Hp)    | 10.0 • 13.4         |
| Weight* (kg • lbs)                 | 10.5 • 23           |
| Item Code                          | SH160/215T-xxx      |

#### Measurements

|                         |            |
|-------------------------|------------|
| A (mm • in)             | 215 • 8.46 |
| B (mm • in)             | 195 • 7.64 |
| B max. (mm • in)        | 230 • 9.05 |
| C min. (mm • in)        | 215 • 8.5  |
| D (mm • in)             | 280 • 11   |
| D recommended (mm • in) | 560 • 22   |
| E min. (mm • in)        | 6 • 0.24   |
| E max. (mm • in)        | 8 • 0.31   |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 172•76.72 |
| G (mm•in)             | 300•11.8  |
| C min. (mm•in)        | 215•8.46  |
| H max. (mm•in)        | 54•2.13   |
| Tunnel length (mm•in) | 280•11    |
| Item code:            |           |
| Stern thruster kit    | 90135i    |
| Cowls                 | 90136     |



### SH 240/250 TC



|                                    |                     |
|------------------------------------|---------------------|
| Light duty thrust up to (kg • lbs) | 240 • 528           |
| Heavy duty thrust up to (kg • lbs) | 220 • 440           |
| Typical boat size (ft • m)         | 42' - 75' • 13 - 23 |
| Tunnel I.D. (mm • in)              | 250 • 9.8"          |
| Propulsion system                  | Twin Counter rot.   |
| Hydraulic power up to (kw • Hp)    | 14.9 • 20.0         |
| Weight* (kg • lbs)                 | 15.9 • 35.0         |
| Item Code                          | SH240/250TC-xxx     |

#### Measurements

|                         |            |
|-------------------------|------------|
| A (mm • in)             | 250 • 9.84 |
| B (mm • in)             | 213 • 8.38 |
| B max. (mm • in)        | 230 • 9.05 |
| C min. (mm • in)        | 230 • 9.0  |
| D (mm • in)             | 280 • 11   |
| D recommended (mm • in) | 560 • 22   |
| E min. (mm • in)        | 7 • 0.28   |
| E max. (mm • in)        | 10 • 0.39  |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 91•7.52   |
| G (mm•in)             | 340•13.39 |
| C min. (mm•in)        | 250•9.84  |
| H max. (mm•in)        | 60•2.36   |
| Tunnel length (mm•in) | 350•13.78 |
| Item code:            |           |
| Stern thruster kit    | 90140i    |
| Cowls                 | 90132     |



### SP 300 HYD



|                                    |                      |
|------------------------------------|----------------------|
| Light duty thrust up to (kg • lbs) | 300 • 660            |
| Heavy duty thrust up to (kg • lbs) | 270 • 594            |
| Typical boat size (ft • m)         | 55' - 100' • 17 - 31 |
| Tunnel I.D. (mm • in)              | 300 • 11.8"          |
| Propulsion system                  | Twin Counter rot.    |
| Hydraulic power up to (kw • Hp)    | 17.4 • 23.3          |
| Weight* (kg • lbs)                 | 19.5 • 42.9          |
| Item Code                          | SP300HYD-xxx         |

#### Measurements

|                         |             |
|-------------------------|-------------|
| A (mm • in)             | 300 • 11.81 |
| B (mm • in)             | 220 • 8.66  |
| B max. (mm • in)        | 244 • 9.61  |
| C min. (mm • in)        | 300 • 11.81 |
| D (mm • in)             | 300 • 11.81 |
| D recommended (mm • in) | 600 • 23.6  |
| E min. (mm • in)        | 10 • 0.39   |
| E max. (mm • in)        | 10 • 0.39   |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 195•7.68  |
| G (mm•in)             | 420•16.54 |
| C min. (mm•in)        | 300•11.81 |
| H max. (mm•in)        | 60•2.36   |
| Tunnel length (mm•in) | 456•17.95 |
| Item code:            |           |
| Stern thruster kit    | 90200i    |
| Cowls                 | 90220     |

COMING SOON



### SH 350/300 TC



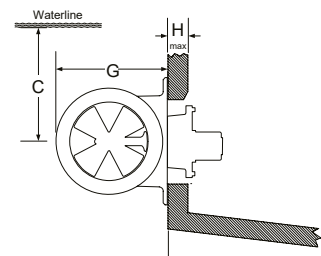
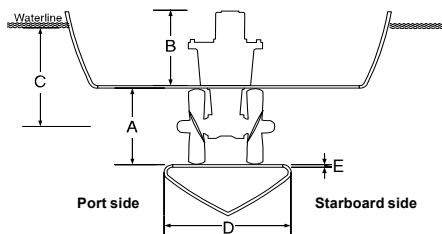
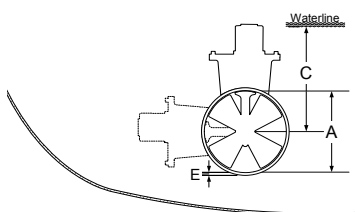
|                                    |                      |
|------------------------------------|----------------------|
| Light duty thrust up to (kg • lbs) | 350 • 771            |
| Heavy duty thrust up to (kg • lbs) | 350 • 771            |
| Typical boat size (ft • m)         | 60' - 120' • 18 - 36 |
| Tunnel I.D. (mm • in)              | 300 • 11.8"          |
| Propulsion system                  | Twin Counter rot.    |
| Hydraulic power up to (kw • Hp)    | 21.2 • 28.4          |
| Weight* (kg • lbs)                 | 40± • 88.2           |
| Item Code                          | SH350/300TC-xxx      |

#### Measurements

|                         |             |
|-------------------------|-------------|
| A (mm • in)             | 300 • 11.81 |
| B (mm • in)             | 250 • 9.84  |
| B max. (mm • in)        | 300 • 11.81 |
| C min. (mm • in)        | 350 • 13.78 |
| D (mm • in)             | 370 • 14.57 |
| D recommended (mm • in) | 720 • 28.35 |
| E min. (mm • in)        | 10 • 0.39   |
| E max. (mm • in)        | 10 • 0.39   |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 225•8.86  |
| G (mm•in)             | 340•13.39 |
| C min. (mm•in)        | 350•13.78 |
| H max. (mm•in)        | 60•2.36   |
| Tunnel length (mm•in) | 350•13.78 |
| Item code:            |           |
| Stern thruster kit    | 90200i    |
| Cowls                 | 90220     |



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## Technical specifications and measurements

- Actual performances will vary for each installation depending on many factors.
- Specifications shown here are based on a thruster installed at a depth equal to one tunnel diameter and with Hydraulic powered thruster as shown.



### SH 420/386 TC



|                                    |                     |
|------------------------------------|---------------------|
| Light duty thrust up to (kg • lbs) | 420 • 925           |
| Heavy duty thrust up to (kg • lbs) | 380 • 835           |
| Typical boat size (ft • m)         | 75 - 110' • 22 - 35 |
| Tunnel I.D. (mm • in)              | 386 • 15.2"         |
| Propulsion system                  | Twin Counter rot.   |
| Hydraulic power up to (kw • Hp)    | 31.8 • 42.6         |
| Weight* (kg • lbs)                 | 51.8 • 114.2        |
| Item Code                          | SH420/386TC-xxx     |

#### Measurements

|                         |             |
|-------------------------|-------------|
| A (mm • in)             | 386 • 15.2  |
| B (mm • in)             | 292 • 11.5  |
| B max. (mm • in)        | 372 • 14.65 |
| C min. (mm • in)        | 380 • 15.0  |
| D (mm • in)             | 500 • 19.7  |
| D recommended (mm • in) | 750 • 29.5  |
| E min. (mm • in)        | 10 • 0.39   |
| E max. (mm • in)        | 15 • 0.59   |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 257•10.12 |
| G (mm•in)             | 540•21.25 |
| C min. (mm•in)        | 380•15.00 |
| H max. (mm•in)        |           |
| Tunnel length (mm•in) | 550•21.65 |
| Item code:            |           |
| Stern thruster kit    | 90550     |
| Cowls                 | 90560     |



### SH 550/386 TC



|                                    |                     |
|------------------------------------|---------------------|
| Light duty thrust up to (kg • lbs) | 550 • 1210          |
| Heavy duty thrust up to (kg • lbs) | 500 • 1100          |
| Typical boat size (ft • m)         | 85 - 140' • 25 - 40 |
| Tunnel I.D. (mm • in)              | 386 • 15.2"         |
| Propulsion system                  | Twin Counter rot.   |
| Hydraulic power up to (kw • Hp)    | 39.9 • 53.5         |
| Weight* (kg • lbs)                 | 52.6 • 115.7        |
| Item Code                          | SH550/386TC-xxx     |

#### Measurements

|                         |             |
|-------------------------|-------------|
| A (mm • in)             | 386 • 15.2  |
| B (mm • in)             | 292 • 11.5  |
| B max. (mm • in)        | 372 • 14.65 |
| C min. (mm • in)        | 380 • 15.0  |
| D (mm • in)             | 500 • 19.7  |
| D recommended (mm • in) | 750 • 29.5  |
| E min. (mm • in)        | 10 • 0.39   |
| E max. (mm • in)        | 15 • 0.59   |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 257•10.12 |
| G (mm•in)             | 540•21.25 |
| C min. (mm•in)        | 380•15.00 |
| H max. (mm•in)        |           |
| Tunnel length (mm•in) | 550•21.65 |
| Item code:            |           |
| Stern thruster kit    | 90550     |
| Cowls                 | 90560     |

COMING SOON



### SH 700/412 TC



|                                    |                     |
|------------------------------------|---------------------|
| Light duty thrust up to (kg • lbs) | 700 • 1543          |
| Heavy duty thrust up to (kg • lbs) | 700 • 1543          |
| Typical boat size (ft • m)         | 95 - 145' • 29 - 44 |
| Tunnel I.D. (mm • in)              | 412 • 16.2"         |
| Propulsion system                  | Twin Counter rot.   |
| Hydraulic power up to (kw • Hp)    | 43.4 • 58.2         |
| Weight* (kg • lbs)                 | 70 • 154.3          |
| Item Code                          | SH700/412TC-xxx     |

#### Measurements

|                         |             |
|-------------------------|-------------|
| A (mm • in)             | 412 • 16.2  |
| B (mm • in)             | 372 • 14.65 |
| B max. (mm • in)        | 450 • 17.72 |
| C min. (mm • in)        | 412 • 16.2  |
| D (mm • in)             | 520 • 20.47 |
| D recommended (mm • in) | 770 • 30.3  |
| E min. (mm • in)        | 12 • 0.47   |
| E max. (mm • in)        | 16 • 0.63   |

#### Stern Thrusters

|                       |       |
|-----------------------|-------|
| F (mm•in)             | n. a. |
| G (mm•in)             | n. a. |
| C min. (mm•in)        | n. a. |
| H max. (mm•in)        | n. a. |
| Tunnel length (mm•in) | n. a. |
| Item code:            |       |
| Stern thruster kit    | n. a. |



### SH 1000/513 TC



|                                 |                      |
|---------------------------------|----------------------|
| Thrust up to (kg • lbs)         | 1000 • 2205          |
| Typical boat size (ft • m)      | 100 - 150' • 30 - 45 |
| Tunnel I.D. (mm • in)           | 513 • 20"            |
| Propulsion system               | Twin Counter rot.    |
| Hydraulic power up to (kw • Hp) | 59.8 • 80.2          |
| Weight <sup>1</sup> (kg • lbs)  | 146.5 • 323          |
| Item Code                       | SH1000/513TC-xxx     |

#### Measurements

|                                      |                   |
|--------------------------------------|-------------------|
| A (mm • in)                          | 513 • 20.2        |
| B (mm • in)                          | 483 • 19.1        |
| C min. (mm • in)                     | 700 • 27.6        |
| D (mm • in)                          | 850 • 33.5        |
| D recommended (mm • in)              | 1000 • 39.4       |
| E recommended <sup>2</sup> (mm • in) | 16 • 0.63         |
| E min/max. <sup>3</sup> (mm • in)    | 12/22 • 0.47/0.87 |

#### Stern Thrusters

|                       |          |
|-----------------------|----------|
| F (mm•in)             | 365•14.4 |
| G (mm•in)             | 726•28.6 |
| C min. (mm•in)        | 770•30.3 |
| H max. (mm•in)        |          |
| Tunnel length (mm•in) | 950•37.4 |
| Item code:            |          |
| Stern thruster kit    | 91000    |



### SH 1400/610 TC



|                                 |                      |
|---------------------------------|----------------------|
| Thrust up to (kg • lbs)         | 1400 • 3085          |
| Typical boat size (ft • m)      | 130 - 175' • 40 - 55 |
| Tunnel I.D. (mm • in)           | 610 • 24"            |
| Propulsion system               | Twin Counter rot.    |
| Hydraulic power up to (kw • Hp) | 80.1 • 107.4         |
| Weight <sup>1</sup> (kg • lbs)  | 170 • 375            |
| Item Code                       | SH1400/610TC-xxx     |

#### Measurements

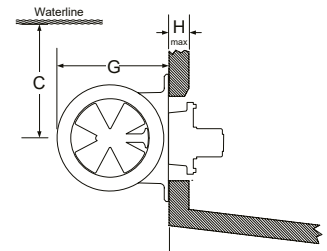
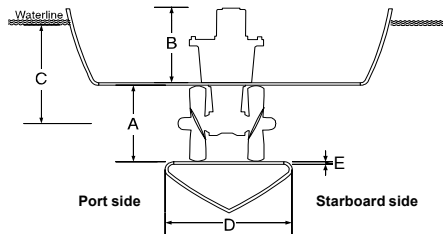
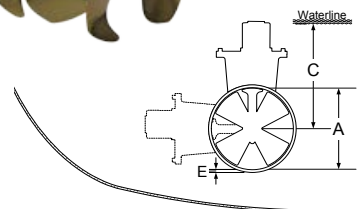
|                                      |                   |
|--------------------------------------|-------------------|
| A (mm • in)                          | 610 • 24          |
| B (mm • in)                          | 500 • 19.1        |
| C min. (mm • in)                     | 830 • 32.7        |
| D (mm • in)                          | 850 • 33.5        |
| D recommended (mm • in)              | 1000 • 39.4       |
| E recommended <sup>2</sup> (mm • in) | 18 • 0.71         |
| E min/max. <sup>3</sup> (mm • in)    | 14/24 • 0.55/0.94 |

#### Stern Thrusters

|                       |           |
|-----------------------|-----------|
| F (mm•in)             | 380•15.0  |
| G (mm•in)             | 851•33.5  |
| C min. (mm•in)        | 915•36.0  |
| H max. (mm•in)        |           |
| Tunnel length (mm•in) | 1000•39.4 |
| Item code:            |           |
| Stern thruster kit    | 91400     |

<sup>1</sup> Weight stated include thruster, props & bellhousing ONLY.  
Weight of hydraulic motor (typical 25 - 40 kg) comes in addition

<sup>2</sup> E recommended.: wall thickness of a standard Side-Power tunnel  
<sup>3</sup> E min/max: minimum/maximum wall thickness when using other GRP, steel or aluminium tunnels



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## Hydraulic motor and Performance data

| Thruster model  | Motor type   |            | 60 %       |          | 80 % |          | 100 %<br>or max thrust |                    |                    |
|-----------------|--------------|------------|------------|----------|------|----------|------------------------|--------------------|--------------------|
|                 |              |            | Flow       | Pressure | Flow | Pressure | Flow                   | Pressure           |                    |
| <b>SH100</b>    | U6           | L/min -Bar | 18,8       | 103      | 21,7 | 137      | 24,2                   | 172                |                    |
|                 |              | USG-PSI    | 5.0        | 1494     | 5.7  | 1987     | 6.4                    | 2494               |                    |
|                 | U8           | L/min -Bar | 25,5       | 77       | 29,9 | 103      | 32,3                   | 129                |                    |
|                 |              | USG-PSI    | 6.6        | 1117     | 7.6  | 1494     | 8.5                    | 1871               |                    |
|                 | U10          | L/min -Bar | 31,3       | 62       | 36,1 | 82       | 40,4                   | 103                |                    |
|                 |              | USG-PSI    | 8.3        | 899      | 9.5  | 1189     | 10.7                   | 1494               |                    |
| <b>SH160</b>    | U6           | L/min -Bar | 18,6       | 150      | 21,5 | 200      | 24                     | 250                |                    |
|                 |              | USG-PSI    | 4.9        | 2175     | 5.7  | 2900     | 6.3                    | 3625               |                    |
|                 | U8           | L/min -Bar | 24,8       | 112      | 28,6 | 150      | 32,0                   | 187                |                    |
|                 |              | USG-PSI    | 6.6        | 1624     | 7.6  | 2175     | 8.5                    | 2712               |                    |
|                 | U10          | L/min -Bar | 31,0       | 82       | 35,8 | 120      | 40,0                   | 150                |                    |
|                 |              | USG-PSI    | 8.2        | 1305     | 9.5  | 1740     | 10.6                   | 2172               |                    |
|                 | U11          | L/min -Bar | 34,1       | 82       | 39,3 | 109      | 44,0                   | 136                |                    |
|                 |              | USG-PSI    | 9.0        | 1189     | 10.4 | 1581     | 11.6                   | 1972               |                    |
|                 | U14          | L/min -Bar | 43,1       | 64       | 49,7 | 86       | 55,6                   | 107                |                    |
|                 |              | USG-PSI    | 11.4       | 928      | 13.1 | 1247     | 14.7                   | 1552               |                    |
|                 | <b>SH240</b> | U8         | L/min -Bar | 19,1     | 217  |          |                        | 21,3 <sup>1)</sup> | 272 <sup>1)</sup>  |
|                 |              |            | USG-PSI    | 5.0      | 3147 |          |                        | 5.6 <sup>1)</sup>  | 3944 <sup>1)</sup> |
| U10             |              | L/min -Bar | 23,8       | 174      | 27,5 | 232      | 28,5 <sup>2)</sup>     | 240 <sup>2)</sup>  |                    |
|                 |              | USG-PSI    | 6.3        | 2523     | 7.3  | 3364     | 7.5 <sup>2)</sup>      | 3480 <sup>2)</sup> |                    |
| U11             |              | L/min -Bar | 26,2       | 158      | 30,2 | 211      | 33,8                   | 264                |                    |
|                 |              | USG-PSI    | 6.9        | 2291     | 8.0  | 3060     | 8.9                    | 3828               |                    |
| U14             |              | L/min -Bar | 33,1       | 124      | 38,2 | 166      | 42,7                   | 207                |                    |
|                 |              | USG-PSI    | 8.7        | 1798     | 10.1 | 2407     | 11.3                   | 3002               |                    |
| U16             |              | L/min -Bar | 38,1       | 109      | 44,0 | 145      | 49,2                   | 181                |                    |
|                 |              | USG-PSI    | 10.1       | 1581     | 11.6 | 2103     | 13.0                   | 2625               |                    |
| U19             |              | L/min -Bar | 45,1       | 92       | 52,1 | 122      | 58,3                   | 153                |                    |
|                 |              | USG-PSI    | 11.9       | 1334     | 13.8 | 1769     | 15.4                   | 2219               |                    |
| <b>SP300HYD</b> | U10          | L/min -Bar | 20         | 243      |      |          | 20,0 <sup>3)</sup>     | 243 <sup>3)</sup>  |                    |
|                 |              | USG-PSI    | 5.3        | 3224     |      |          | 5.3 <sup>3)</sup>      | 3524 <sup>3)</sup> |                    |
|                 | U11          | L/min -Bar | 22,0       | 221      |      |          | 24,6 <sup>4)</sup>     | 276 <sup>4)</sup>  |                    |
|                 |              | USG-PSI    | 5.8        | 3205     |      |          | 6.5 <sup>4)</sup>      | 4002 <sup>4)</sup> |                    |
|                 | U14          | L/min -Bar | 27,8       | 173      | 32,1 | 231      | 35,0 <sup>5)</sup>     | 275 <sup>5)</sup>  |                    |
|                 |              | USG-PSI    | 7.3        | 2509     | 8.5  | 3350     | 9.2 <sup>5)</sup>      | 3988 <sup>5)</sup> |                    |
|                 | U16          | L/min -Bar | 32,0       | 152      | 36,9 | 202      | 41,3                   | 253                |                    |
|                 |              | USG-PSI    | 8.5        | 2204     | 9.7  | 2929     | 10.9                   | 3669               |                    |
|                 | U19          | L/min -Bar | 37,9       | 128      | 43,7 | 170      | 48,9                   | 213                |                    |
|                 |              | USG-PSI    | 10.0       | 1856     | 11.5 | 2465     | 12.9                   | 3089               |                    |

<sup>1)</sup> Max. thrust: 165kg

<sup>2)</sup> Max. thrust: 189kg

<sup>3)</sup> Max. thrust: 180kg

<sup>4)</sup> Max. thrust: 225kg

<sup>5)</sup> Max. thrust: 285kg

| Thruster model | Motor type   |            | 60 %       |          | 80 %  |          | 100 %<br>or max thrust |                   |                   |
|----------------|--------------|------------|------------|----------|-------|----------|------------------------|-------------------|-------------------|
|                |              |            | Flow       | Pressure | Flow  | Pressure | Flow                   | Pressure          |                   |
| <b>SH420</b>   | U26          | L/min -Bar | 45,8       | 188      | 52,8  | 251      | 57,3                   | 295 <sup>6)</sup> |                   |
|                |              | USG-PSI    | 12,1       | 2726     | 14    | 3640     | 15,1                   | 4278              |                   |
|                | U29          | L/min -Bar | 51,0       | 169,0    | 58,9  | 225      | 65,9                   | 281               |                   |
|                |              | USG-PSI    | 13,5       | 2451     | 15,6  | 3263     | 17,5                   | 4075              |                   |
|                | U33          | L/min -Bar | 58,1       | 148      | 67,1  | 198      | 75,0                   | 247               |                   |
|                |              | USG-PSI    | 15,5       | 2146     | 17,7  | 2871     | 19,8                   | 3582              |                   |
|                | U37          | L/min -Bar | 65,1       | 132      | 75,2  | 176      | 84,1                   | 220               |                   |
|                |              | USG-PSI    | 17,2       | 1914     | 19,9  | 2552     | 22,2                   | 3190              |                   |
|                | BA40         | L/min -Bar | 61,0       | 121      | 70,4  | 161      | 78,7                   | 202               |                   |
|                |              | USG-PSI    | 16,1       | 1754     | 19,6  | 2335     | 20,8                   | 2929              |                   |
|                | P42          | L/min -Bar | 73,6       | 116      | 84,9  | 155      | 95,0                   | 194               |                   |
|                |              | USG-PSI    | 19,4       | 1682     | 22,4  | 2248     | 25,1                   | 2813              |                   |
|                | G45          | L/min -Bar | 79,2       | 109      | 91,4  | 145      | 102,2                  | 181               |                   |
|                |              | USG-PSI    | 21         | 1580     | 24,2  | 2103     | 27                     | 2625              |                   |
|                | BA45         | L/min -Bar | 68,0       | 106      | 78,5  | 142      | 87,8                   | 177               |                   |
|                |              | USG-PSI    | 18         | 1537     | 20,7  | 2059     | 23,2                   | 2567              |                   |
|                | <b>SH550</b> | U37        | L/min -Bar | 74,5     | 173   | 86,0     | 231                    | 93,8              | 274 <sup>7)</sup> |
|                |              |            | USG-PSI    | 19,7     | 2509  | 22,7     | 3350                   | 24,8              | 3974              |
| BA40           |              | L/min -Bar | 69,8       | 158      | 80,5  | 211      | 90,0                   | 264               |                   |
|                |              | USG-PSI    | 18,4       | 2291     | 21,3  | 3060     | 23,8                   | 3829              |                   |
| P42            |              | L/min -Bar | 84,2       | 152      | 97,2  | 203      | 108,7                  | 254               |                   |
|                |              | USG-PSI    | 22,2       | 2204     | 25,7  | 2944     | 28,7                   | 3683              |                   |
| G45            |              | L/min -Bar | 90,6       | 142      | 104,6 | 190      | 117,0                  | 237               |                   |
|                |              | USG-PSI    | 24         | 2059     | 27,6  | 2755     | 31                     | 3437              |                   |
| BA45           |              | L/min -Bar | 77,8       | 139      | 89,9  | 185      | 100,5                  | 232               |                   |
|                |              | USG-PSI    | 20,6       | 2016     | 23,8  | 2683     | 26,6                   | 3364              |                   |
| U50            |              | L/min -Bar | 101,1      | 128      | 116,7 | 171      | 130,5                  | 213               |                   |
|                |              | USG-PSI    | 26,7       | 1856     | 30,8  | 2480     | 34,5                   | 3089              |                   |
| P52            |              | L/min -Bar | 105,1      | 124      | 121,4 | 166      | 135,7                  | 207               |                   |
|                |              | USG-PSI    | 27,8       | 1798     | 32,1  | 2407     | 35,9                   | 3002              |                   |
| BA60           |              | L/min -Bar | 104,6      | 106      | 120,8 | 141      | 135,1                  | 176               |                   |
|                |              | USG-PSI    | 27,6       | 1537     | 32    | 2045     | 35,7                   | 2552              |                   |

<sup>6)</sup> Max. thrust: 347kg

<sup>7)</sup> Max. thrust: 386kg





## Hydraulic motor and Performance data

|               |            |            | 60 %  |          | 70 %  |          | 80 %  |          | 90 %  |          | 100 % |          |
|---------------|------------|------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
|               |            |            | Flow  | Pressure | Flow  | Pressure | Flow  | Pressure | Flow  | Pressure | Flow  | Pressure |
| <b>SH1000</b> | G70        | L/min -Bar | 91,0  | 220      | 99,0  | 256      |       |          |       |          |       |          |
|               |            | USG-PSI    | 24.0  | 3190     | 26.2  | 3712     |       |          |       |          |       |          |
|               | G75        | L/min -Bar | 98,0  | 205      | 106,0 | 239      |       |          |       |          |       |          |
|               |            | USG-PSI    | 25.9  | 2973     | 28.0  | 3466     |       |          |       |          |       |          |
|               | BA80       | L/min -Bar | 90,4  | 188      | 98,0  | 220      | 104,4 | 251      | 111,0 | 282      |       |          |
|               |            | USG-PSI    | 23.9  | 2726     | 25.9  | 3190     | 27.6  | 3640     | 29.3  | 4089     |       |          |
|               | BA90       | L/min -Bar | 99,5  | 167      | 107,0 | 195      | 115,0 | 225      | 122,0 | 251      | 128,5 | 279      |
|               |            | USG-PSI    | 26.3  | 2422     | 28.3  | 2828     | 30.4  | 3263     | 32.2  | 3640     | 40.0  | 4046     |
| BA110         | L/min -Bar | 122,0      | 139   | 131,4    | 132   | 140,5    | 185   | 149,0    | 208   | 157,0    | 231   |          |
|               | USG-PSI    | 32.2       | 2016  | 34.7     | 1914  | 37,1     | 2683  | 39.4     | 3016  | 41.5     | 3350  |          |
| <b>SH1400</b> | BA125      | L/min -Bar | 113,0 | 197      | 122,4 | 230      | 131,0 | 263      | 139,0 | 296      |       |          |
|               |            | USG-PSI    | 29.9  | 2857     | 32.3  | 3335     | 34.6  | 3814     | 36.7  | 4292     |       |          |
|               | BA150      | L/min -Bar | 139,0 | 164      | 150,0 | 192      | 160,4 | 219      | 170,0 | 247      | 179,4 | 274      |
|               |            | USG-PSI    | 36.7  | 2378     | 39.6  | 2784     | 42.4  | 3176     | 44.9  | 3582     | 47.4  | 3973     |
|               | BA160      | L/min -Bar | 145,0 | 154      | 157,0 | 180      | 167,5 | 205      | 178,0 | 231      | 187,0 | 257      |
|               |            | USG-PSI    | 38.3  | 2233     | 41.5  | 2610     | 44.3  | 2973     | 47.0  | 3350     | 49.4  | 3727     |
|               | BA180      | L/min -Bar | 163,0 | 137      | 176,0 | 160      | 188,5 | 183      | 200,0 | 205      | 211,0 | 228      |
|               |            | USG-PSI    | 43.0  | 1987     | 46.5  | 2320     | 49.8  | 2654     | 52.8  | 2973     | 55.7  | 3306     |

### Maintenance

- Gearleg: Oil level must be correct at all time. Change oil the first 50 hours, then every 500 hours or every 2nd year (EP90). Seasonal service should include change of anodes and checking that all bolts are tighten(motor/motor bracket - propeller). See User and Installation manual for more detailed information.
- Hydraulic motor: See User and Installation manual for more information.

### Material specifications

- Hydraulic Motor: There are no hazardous materials in this product, ref material declaration.
- Gearleg: Gear oil EP90 that needs to be kept away from fire, and general precautionary measures must be taken.

### Health and Safety

- Gearleg and Hydraulic motor: The Gearleg is shipped without gear oil - no hazard. The gearleg and Hydraulic motor is very powerful and precautionary measures must be taken considering rotating propeller. Gear oil is flameable and gasses from a fire is generally toxic.
- See Installation and User manual for more information.

*This document may contain typographical errors, to which Sleipner Motor assumes no responsibility.*



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