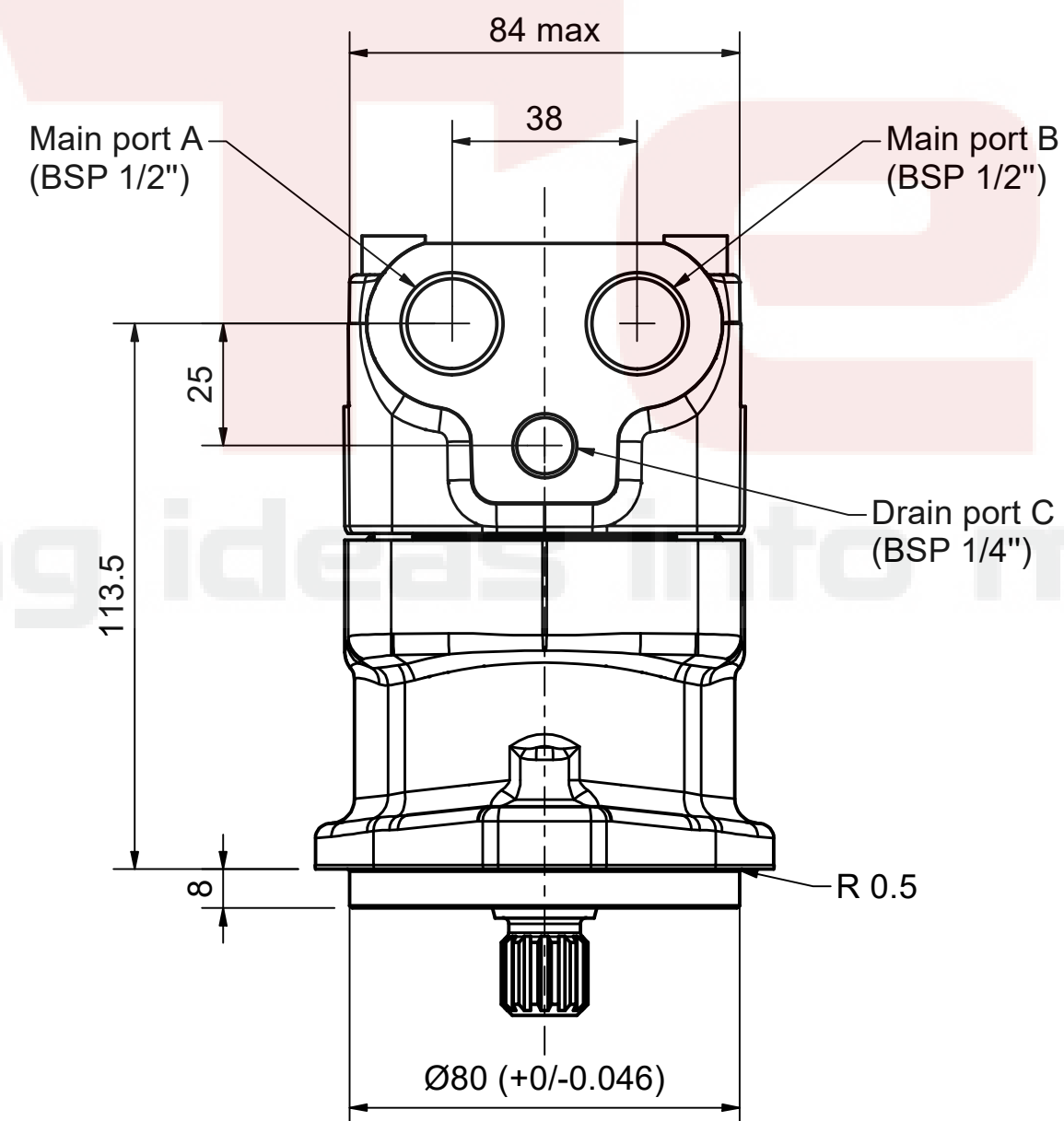
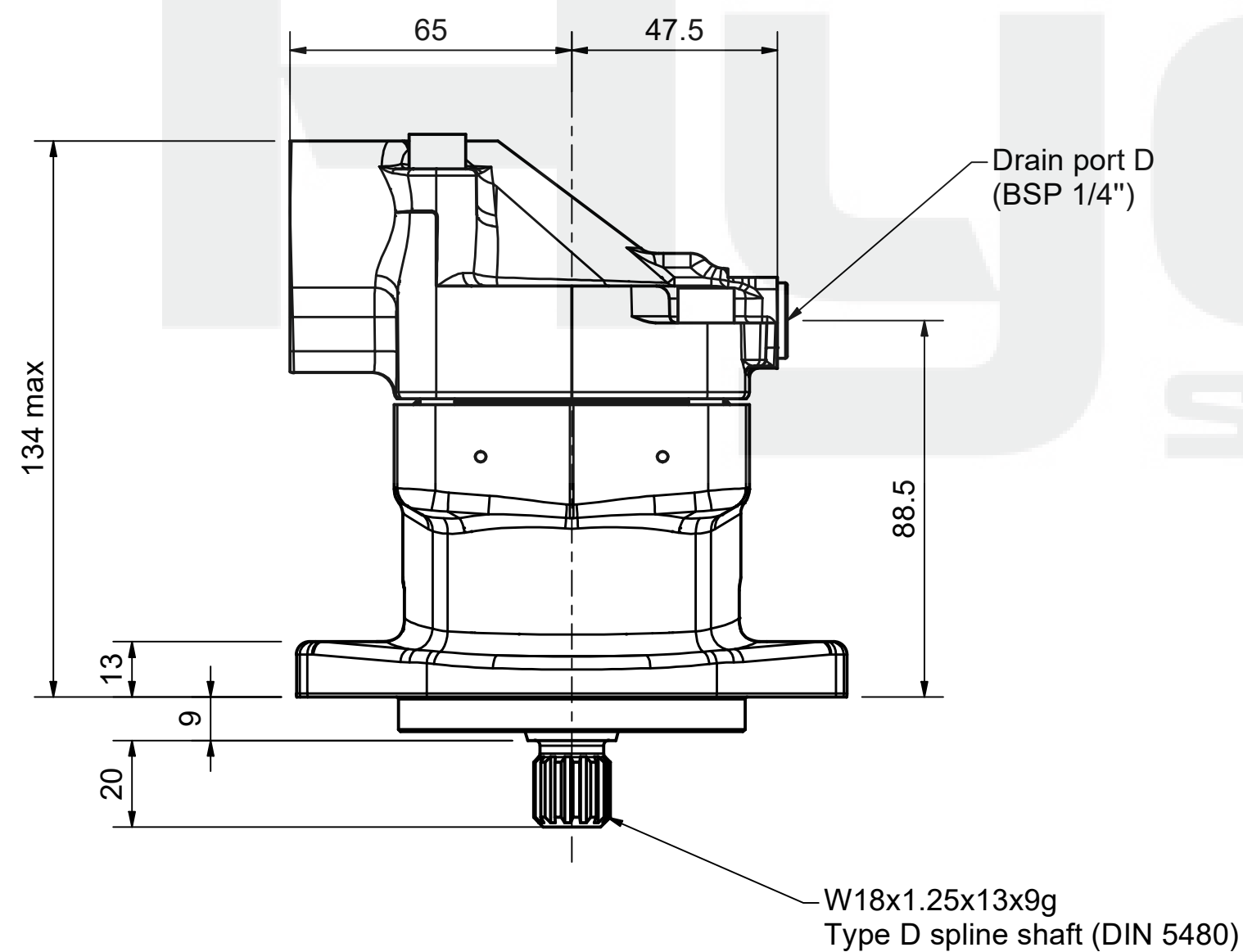
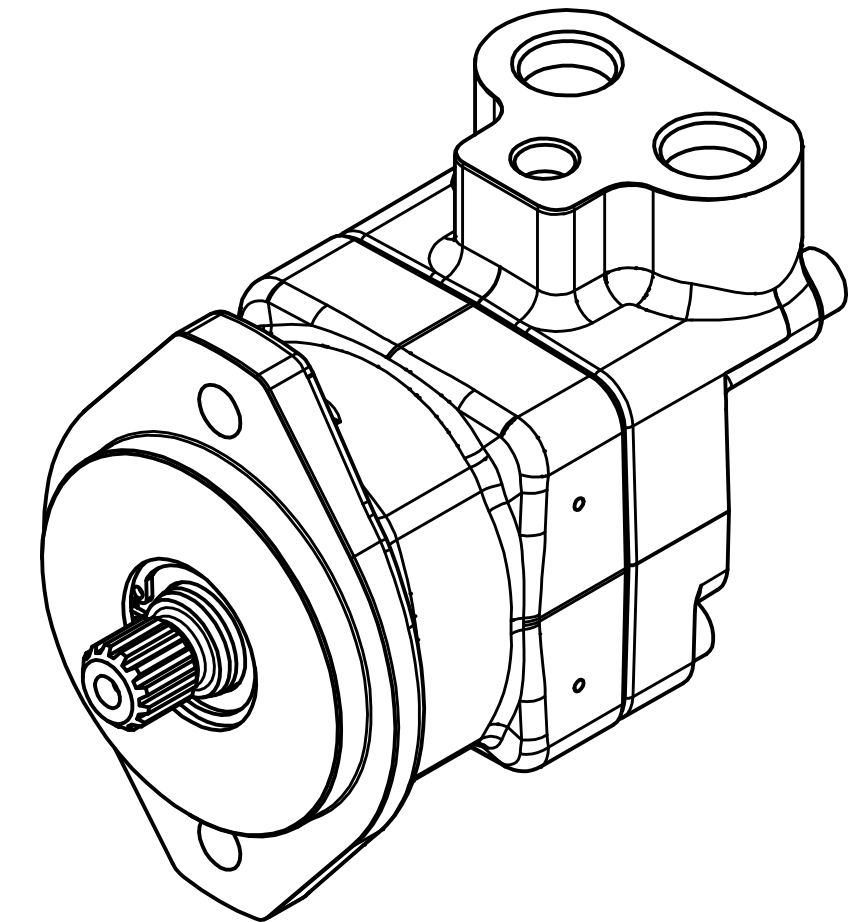
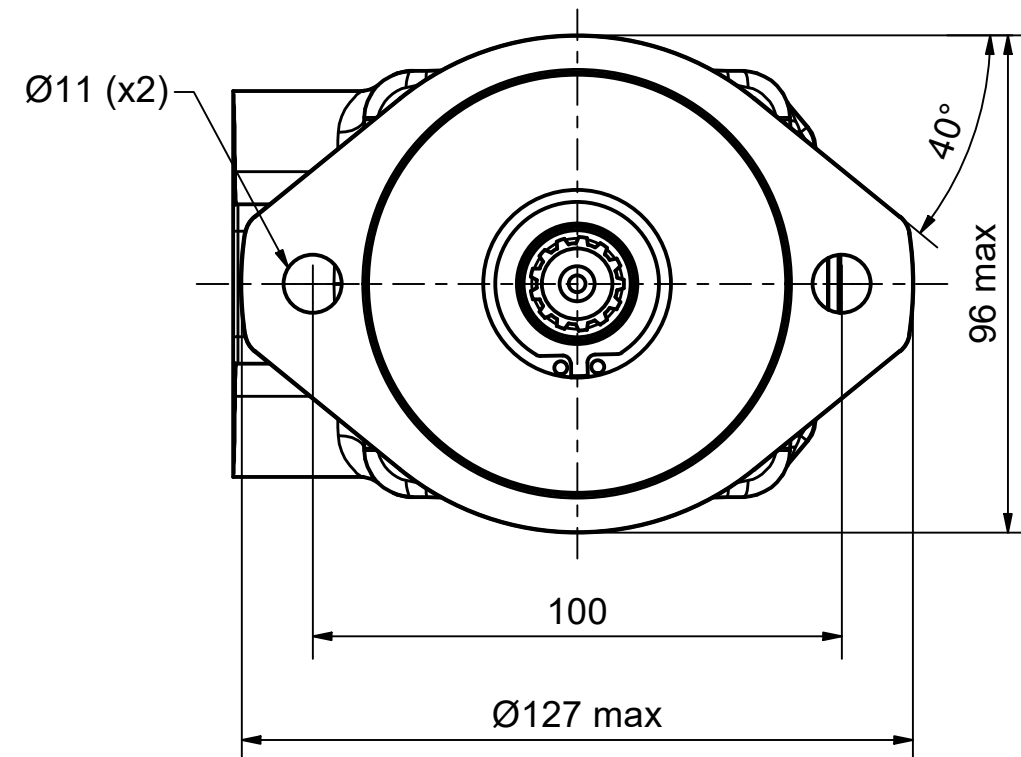




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F11-005



Pump & Motor Division Europe

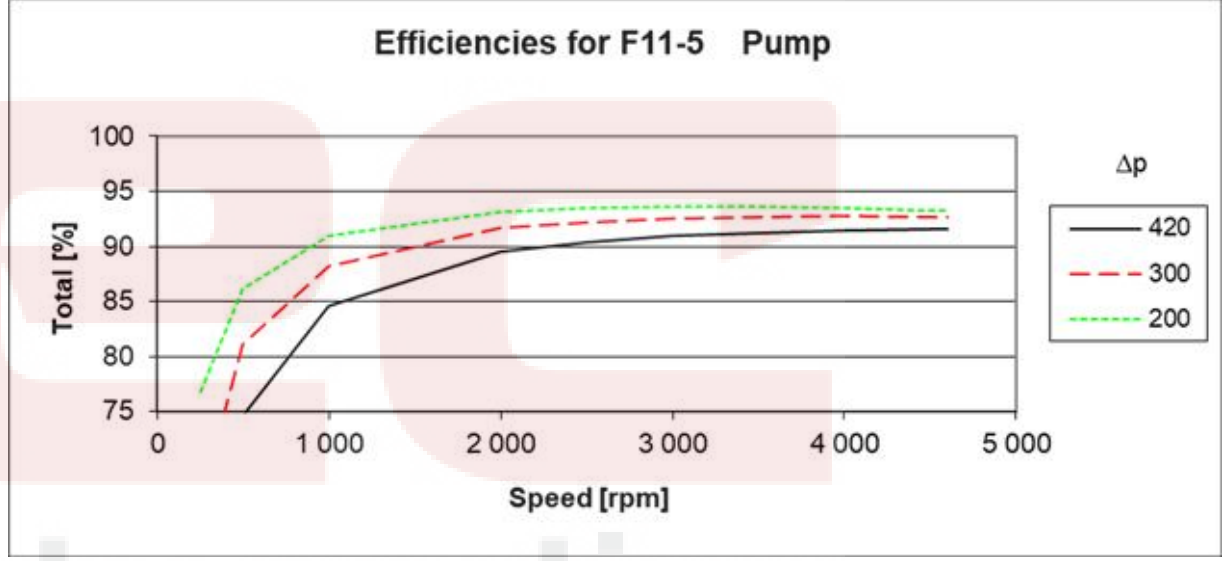
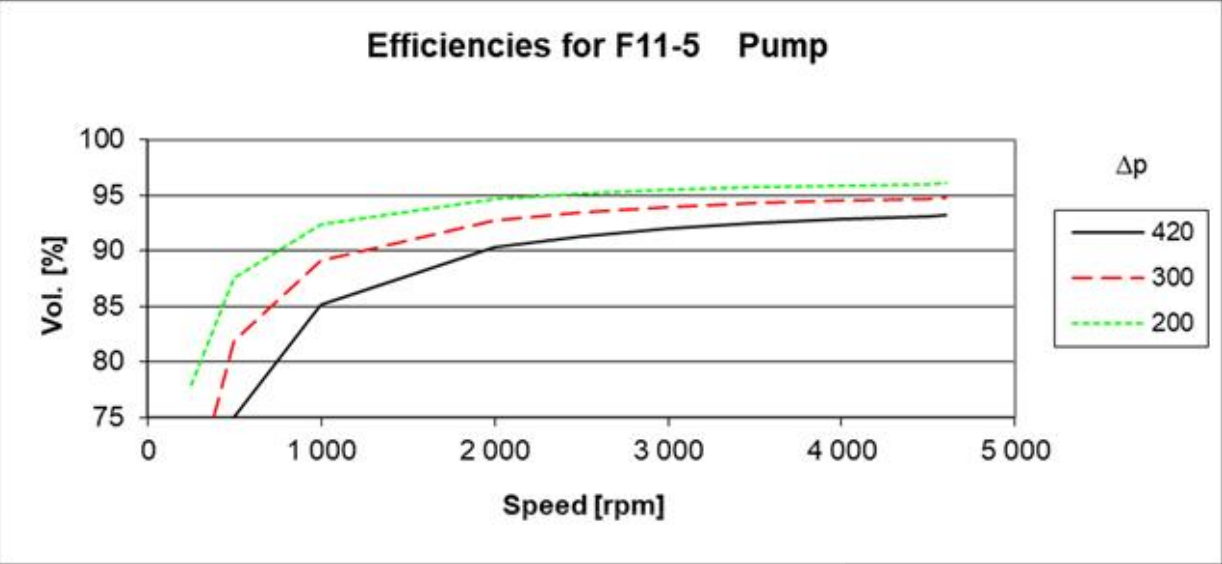
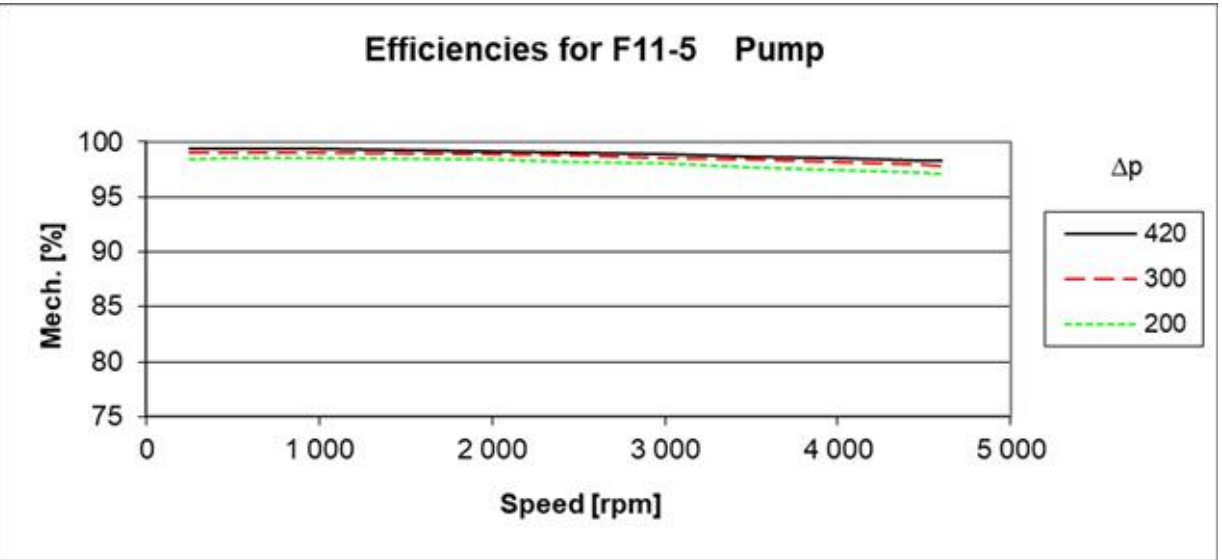


F11 Pump



F12 Pump

|              |              |              |
|--------------|--------------|--------------|
| F11-5        | Pump         |              |
| Displacement | 4.9 cc/rev   |              |
| Max speed    | 4600 rpm     | Intermittent |
| Max speed    | 4600 rpm     | Continuously |
| Max pressure | 420 bar      | Intermittent |
| Max pressure | 350 bar      | Continuously |
| Max Torque   | 33.2 Nm      |              |
| Torque       | 0.078 Nm/bar |              |
| Max Flow     | 22.1 Lpm     |              |
| Max Power    | 17.2 kW      |              |



| Rpm | 250   |      |     | 500   |      |     | 1000  |      |     | 2000  |      |     | 2500  |      |     | 3000  |      |      | 3500  |      |      | 4000  |      |      | 4500  |      |      | 4600  |      |      |
|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| Bar | l/min | Nm   | kW  | l/min | Nm   | kW  | l/min | Nm   | kW  | l/min | Nm   | kW  | l/min | Nm   | kW  | l/min | Nm   | kW   | l/min | Nm   | kW   | l/min | Nm   | kW   | l/min | Nm   | kW   | l/min | Nm   | kW   |
| 50  | 1.1   | 4.2  | 0.1 | 2.3   | 4.2  | 0.2 | 4.8   | 4.1  | 0.4 | 9.6   | 4.1  | 0.9 | 12.0  | 4.2  | 1.1 | 14.4  | 4.2  | 1.3  | 16.8  | 4.2  | 1.6  | 19.2  | 4.2  | 1.8  | 21.6  | 4.3  | 2.1  | 22.1  | 4.3  | 2.1  |
| 100 | 1.1   | 8.1  | 0.2 | 2.3   | 8.0  | 0.5 | 4.7   | 8.0  | 0.9 | 9.5   | 8.0  | 1.7 | 11.9  | 8.0  | 2.2 | 14.3  | 8.1  | 2.6  | 16.7  | 8.1  | 3.1  | 19.1  | 8.1  | 3.5  | 21.5  | 8.2  | 4.0  | 21.9  | 8.2  | 4.1  |
| 150 | 1.0   | 11.9 | 0.4 | 2.2   | 11.9 | 0.7 | 4.6   | 11.9 | 1.3 | 9.4   | 11.9 | 2.6 | 11.8  | 11.9 | 3.3 | 14.2  | 12.0 | 3.9  | 16.5  | 12.0 | 4.6  | 18.9  | 12.1 | 5.2  | 21.3  | 12.1 | 5.9  | 21.8  | 12.1 | 6.0  |
| 200 | 1.0   | 15.8 | 0.5 | 2.1   | 15.8 | 0.9 | 4.5   | 15.8 | 1.8 | 9.3   | 15.8 | 3.5 | 11.7  | 15.8 | 4.4 | 14.0  | 15.9 | 5.2  | 16.4  | 15.9 | 6.1  | 18.8  | 16.0 | 7.0  | 21.2  | 16.0 | 7.9  | 21.7  | 16.0 | 8.1  |
| 250 | 0.9   | 19.7 | 0.7 | 2.1   | 19.7 | 1.2 | 4.4   | 19.7 | 2.3 | 9.2   | 19.7 | 4.4 | 11.6  | 19.7 | 5.5 | 13.9  | 19.8 | 6.6  | 16.3  | 19.8 | 7.7  | 18.7  | 19.9 | 8.8  | 21.0  | 19.9 | 9.9  | 21.5  | 19.9 | 10.1 |
| 300 | 0.8   | 23.6 | 0.9 | 2.0   | 23.6 | 1.5 | 4.4   | 23.6 | 2.8 | 9.1   | 23.6 | 5.3 | 11.4  | 23.6 | 6.6 | 13.8  | 23.7 | 7.9  | 16.2  | 23.7 | 9.3  | 18.5  | 23.8 | 10.6 | 20.9  | 23.8 | 11.9 | 21.4  | 23.9 | 12.2 |
| 350 | 0.8   | 27.4 | 1.2 | 1.9   | 27.4 | 1.8 | 4.3   | 27.4 | 3.3 | 9.0   | 27.5 | 6.3 | 11.3  | 27.5 | 7.8 | 13.7  | 27.6 | 9.3  | 16.0  | 27.6 | 10.9 | 18.4  | 27.7 | 12.4 | 20.7  | 27.8 | 13.9 | 21.2  | 27.8 | 14.3 |
| 420 | 0.7   | 32.9 | 1.6 | 1.8   | 32.9 | 2.3 | 4.2   | 32.9 | 4.1 | 8.8   | 33.0 | 7.7 | 11.2  | 33.0 | 9.5 | 13.5  | 33.0 | 11.3 | 15.9  | 33.1 | 13.2 | 18.2  | 33.2 | 15.0 | 20.5  | 33.2 | 16.9 | 21.0  | 33.2 | 17.2 |

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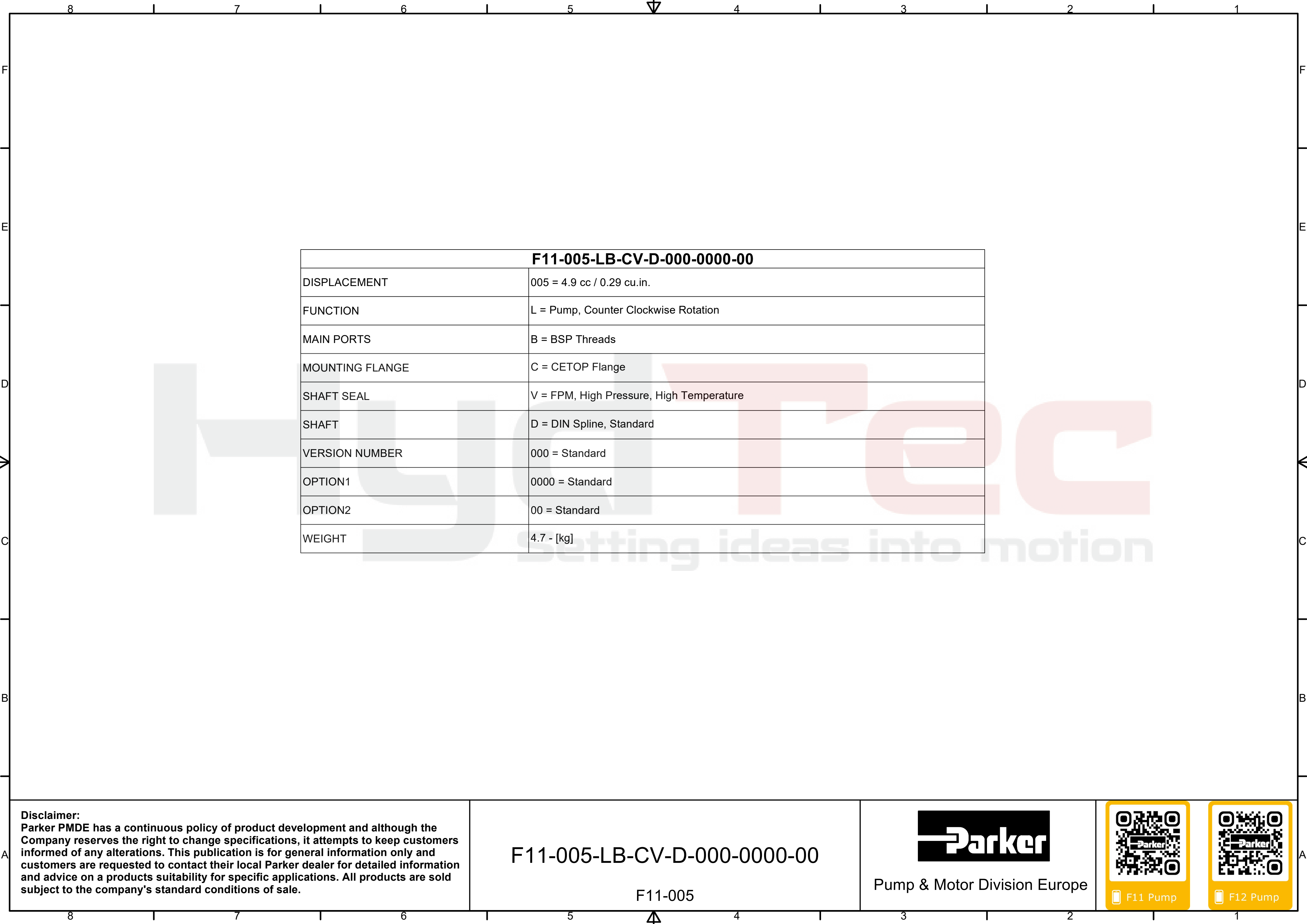
Pump & Motor Division Europe



F11 Pump



F12 Pump



| F11-005-LB-CV-D-000-0000-00 |                                          |
|-----------------------------|------------------------------------------|
| DISPLACEMENT                | 005 = 4.9 cc / 0.29 cu.in.               |
| FUNCTION                    | L = Pump, Counter Clockwise Rotation     |
| MAIN PORTS                  | B = BSP Threads                          |
| MOUNTING FLANGE             | C = CETOP Flange                         |
| SHAFT SEAL                  | V = FPM, High Pressure, High Temperature |
| SHAFT                       | D = DIN Spline, Standard                 |
| VERSION NUMBER              | 000 = Standard                           |
| OPTION1                     | 0000 = Standard                          |
| OPTION2                     | 00 = Standard                            |
| WEIGHT                      | 4.7 - [kg]                               |

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Pump & Motor Division Europe



F11 Pump



F12 Pump