

## TECHNICAL DATA FOR OMR WITH 25 MM AND 1 IN CYLINDRICAL SHAFT

| Type                                          |                                                       | OMR                | OMR            | OMR            | OMR             | OMR             | OMR              | OMR              | OMR              | OMR              |
|-----------------------------------------------|-------------------------------------------------------|--------------------|----------------|----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Motor size                                    |                                                       | 50                 | 80             | 100            | 125             | 160             | 200              | 250              | 315              | 375              |
| Geometric displacement                        | cm <sup>3</sup><br>[inch]                             | 51.6<br>[3.16]     | 80.3<br>[4.91] | 99.8<br>[6.11] | 125.7<br>[7.69] | 159.6<br>[9.77] | 199.8<br>[12.23] | 249.3<br>[15.26] | 315.7<br>[19.32] | 372.6<br>[22.80] |
| Max. speed                                    | min <sup>-1</sup>                                     | cont.              | 775            | 750            | 600             | 475             | 375              | 300              | 240              | 190              |
|                                               | [rpm]                                                 | int. <sup>1)</sup> | 970            | 940            | 750             | 600             | 470              | 375              | 300              | 240              |
| Max. torque                                   | N·m<br>[lbf·in]                                       | cont.              | 100<br>[890]   | 195<br>[1730]  | 240<br>[2120]   | 300<br>[2660]   | 300<br>[2660]    | 300<br>[2660]    | 300<br>[2660]    | 300<br>[2660]    |
|                                               |                                                       | int. <sup>1)</sup> | 130<br>[1150]  | 220<br>[1960]  | 280<br>[2480]   | 340<br>[3010]   | 390<br>[3450]    | 390<br>[3450]    | 380<br>[3360]    | 420<br>[3720]    |
|                                               |                                                       | peak <sup>2)</sup> | 170<br>[1510]  | 270<br>[2390]  | 320<br>[2830]   | 370<br>[3280]   | 460<br>[4070]    | 560<br>[4960]    | 600<br>[5310]    | 610<br>[5400]    |
|                                               |                                                       |                    |                |                |                 |                 |                  |                  |                  |                  |
| Max. output                                   | kW<br>[hp]                                            | cont.              | 7.0<br>[9.4]   | 12.5<br>[16.8] | 13.0<br>[17.4]  | 12.5<br>[16.8]  | 10.0<br>[13.4]   | 8.0<br>[10.7]    | 6.0<br>[8.1]     | 5.0<br>[6.7]     |
|                                               |                                                       | int. <sup>1)</sup> | 8.5<br>[11.4]  | 15.0<br>[20.1] | 15.0<br>[20.1]  | 14.5<br>[19.4]  | 12.5<br>[16.8]   | 10.0<br>[13.4]   | 8.0<br>[10.7]    | 6.5<br>[8.7]     |
| Max. pressure drop                            | bar<br>[psi]                                          | cont.              | 140<br>[2030]  | 175<br>[2540]  | 175<br>[2540]   | 175<br>[2540]   | 130<br>[1890]    | 110<br>[1600]    | 80<br>[1160]     | 70<br>[1020]     |
|                                               |                                                       | int. <sup>1)</sup> | 175<br>[2540]  | 200<br>[2900]  | 200<br>[2900]   | 200<br>[2900]   | 175<br>[2540]    | 140<br>[2030]    | 110<br>[1600]    | 100<br>[1450]    |
|                                               |                                                       | peak <sup>2)</sup> | 225<br>[3260]  | 225<br>[3260]  | 225<br>[3260]   | 225<br>[3260]   | 225<br>[3260]    | 225<br>[3260]    | 200<br>[2900]    | 150<br>[2180]    |
| Max. oil flow                                 | l/min<br>[US gal/min]                                 | cont.              | 40<br>[10.6]   | 60<br>[15.9]   | 60<br>[15.9]    | 60<br>[15.9]    | 60<br>[15.9]     | 60<br>[15.9]     | 60<br>[15.9]     | 60<br>[15.9]     |
|                                               |                                                       | int. <sup>1)</sup> | 50<br>[13.2]   | 75<br>[19.8]   | 75<br>[19.8]    | 75<br>[19.8]    | 75<br>[19.8]     | 75<br>[19.8]     | 75<br>[19.8]     | 75<br>[19.8]     |
| Max. starting pressure<br>with unloaded shaft | bar<br>[psi]                                          |                    | 10<br>[145]    | 10<br>[145]    | 10<br>[145]     | 9<br>[130]      | 7<br>[100]       | 5<br>[75]        | 5<br>[75]        | 5<br>[75]        |
| Min starting torque                           | at max. press drop cont.<br>N·m [lbf·in]              |                    | 80<br>[710]    | 150<br>[1330]  | 200<br>[1770]   | 250<br>[2210]   | 240<br>[2120]    | 260<br>[2300]    | 240<br>[2120]    | 260<br>[2300]    |
|                                               | at max. press.drop int. <sup>1)</sup><br>N·m [lbf·in] |                    | 100<br>[890]   | 170<br>[1510]  | 230<br>[2040]   | 280<br>[2480]   | 320<br>[2830]    | 330<br>[2920]    | 310<br>[2740]    | 350<br>[3100]    |

<sup>1)</sup> Intermittent operation: the permissible values may occur for max. 10% of every minute.

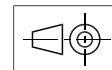
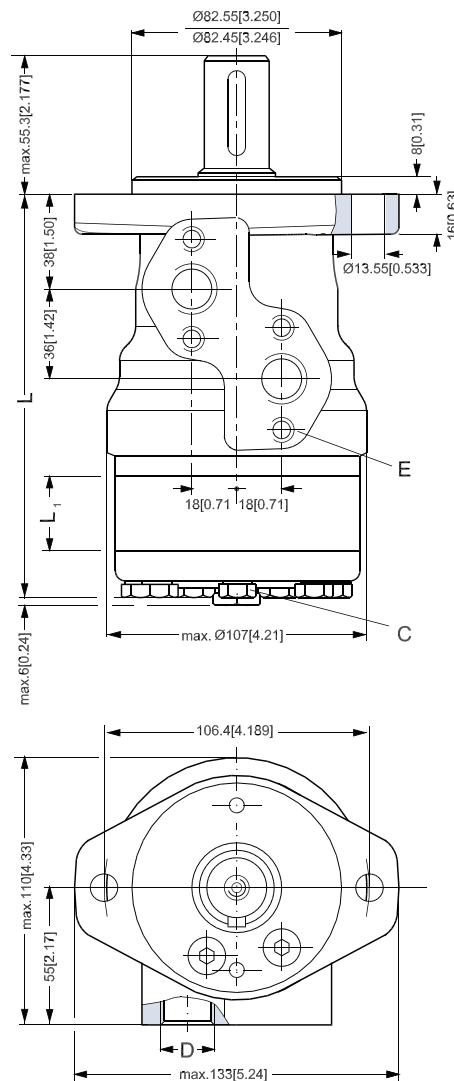
<sup>2)</sup> Peak load: the permissible values may occur for max. 1% of every minute.

## DIMENSIONS

Side port version with 2-hole oval mounting flange (A2 flange).  
With check valves and drain connection.  
With high pressure shaft seal.

| Type    | Max.<br>L mm<br>[in] | L mm<br>[in]   |
|---------|----------------------|----------------|
| OMR 50  | 136.5<br>[5.37]      | 9.0<br>[0.35]  |
| OMR 80  | 141.5<br>[5.57]      | 14.0<br>[0.55] |
| OMR 100 | 145.0<br>[5.71]      | 17.4<br>[0.69] |
| OMR 125 | 149.5<br>[5.89]      | 21.8<br>[0.86] |
| OMR 160 | 155.5<br>[6.12]      | 27.8<br>[1.09] |
| OMR 200 | 162.5<br>[6.40]      | 34.8<br>[1.37] |
| OMR 250 | 171.5<br>[6.75]      | 43.5<br>[1.71] |
| OMR 315 | 182.5<br>[7.19]      | 54.8<br>[2.16] |
| OMR 375 | 192.7<br>[7.59]      | 65.0<br>[2.56] |

C: Drain connection  
G 1/4; 15 mm [0.47 in] deep  
D: G 1/2; 15 mm [0.59 in] deep  
E: M8; 13 mm [0.51 in] deep  
(4 pcs.)



151-1845.11