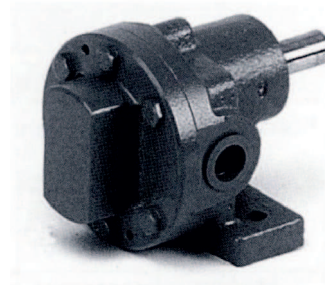
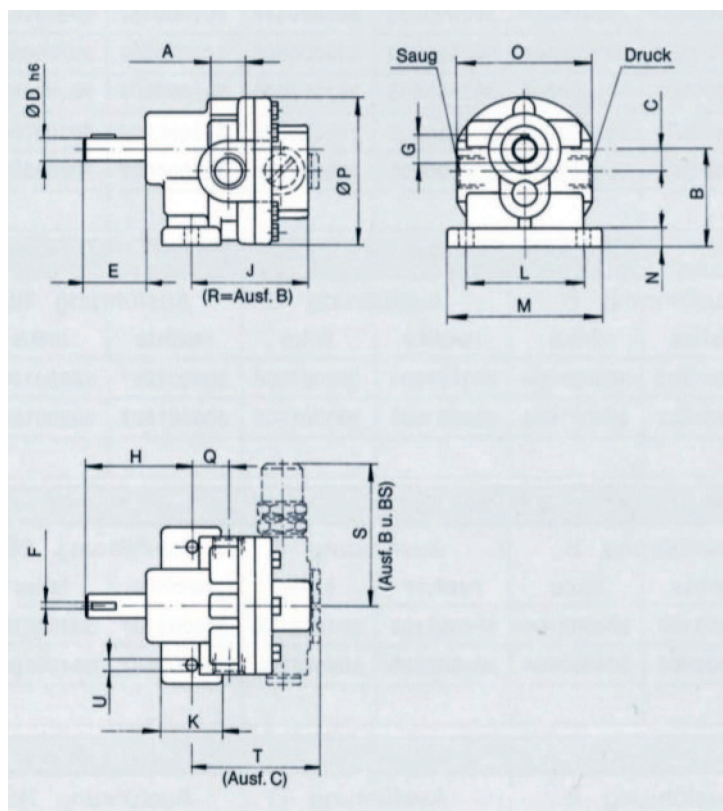


An adaptable and applicable pump, mainly used for the lubrication of gears. The pump is self-priming at a suction height up to approx. 1 m. Pumps for radial shaft loads, made of special materials and designed as multi-circuit pumps, can be delivered for special application cases.

### Technical data

|                                                |                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply volume at $n = 1400 \text{ min}^{-1}$ : | see order table                                                                                                                                                                                    |
| No. of revolution:                             | 700 - 3000 $\text{min}^{-1}$                                                                                                                                                                       |
| Operating over pressure:                       | 30 bar                                                                                                                                                                                             |
| Viscosity:                                     | at $n < 1000 \text{ min}^{-1}$ 50 - 600 $\text{mm}^2/\text{s}$<br>at $n < 2000 \text{ min}^{-1}$ 25 - 400 $\text{mm}^2/\text{s}$<br>at $n > 2000 \text{ min}^{-1}$ 13 - 200 $\text{mm}^2/\text{s}$ |
| Temperature range:                             | -20 °C to +80 °C                                                                                                                                                                                   |
| Sense of rotation:                             | see order table                                                                                                                                                                                    |
| Installation position:                         | optional                                                                                                                                                                                           |
| Material:                                      | housing GG<br>gears and shafts Cr Ni<br>shaft sealing ring NBR                                                                                                                                     |



### Dimensions

| Pump Series | Dimensions (mm) |    |      |    |    |   |      |    |    |    |     |     |    |     |     |    |    |     |     |      | Weight (kg) |     |
|-------------|-----------------|----|------|----|----|---|------|----|----|----|-----|-----|----|-----|-----|----|----|-----|-----|------|-------------|-----|
|             | A               | B  | C    | D  | E  | F | G    | H  | J  | K  | L   | M   | N  | O   | P   | Q  | R  | S   | T   | U    | A           | B+C |
| 1           | 1/4"            | 40 | 9    | 10 | 25 | 3 | 11,3 | 44 | 48 | 24 | 48  | 64  | 8  | 56  | 61  | 15 | 48 | 58  | 52  | 6    | 0,8         | 1,3 |
| 2           | 3/8"            | 54 | 12   | 12 | 30 | 4 | 13,6 | 57 | 58 | 35 | 60  | 82  | 10 | 76  | 82  | 19 | 62 | 73  | 67  | 9,5  | 1,5         | 2,0 |
| 3           | 1/2"            | 65 | 15   | 14 | 32 | 5 | 16,1 | 67 | 68 | 44 | 74  | 96  | 10 | 90  | 98  | 22 | 74 | 85  | 79  | 9,5  | 3,0         | 4,0 |
| 4           | 3/4"            | 77 | 19   | 16 | 34 | 5 | 18,1 | 71 | 78 | 50 | 84  | 110 | 11 | 106 | 114 | 25 | 86 | 100 | 92  | 11,5 | 4,5         | 5,5 |
| 5           | 1"              | 94 | 22,5 | 18 | 38 | 6 | 20,5 | 80 | 89 | 60 | 100 | 130 | 13 | 130 | 140 | 26 | 96 | 120 | 103 | 11,5 | 7,0         | 8,0 |

Subject to alterations!

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| Order numbers Series 1 |                  |           |                  |           |           |           |                  |           |
|------------------------|------------------|-----------|------------------|-----------|-----------|-----------|------------------|-----------|
| Supply vol.<br>(l/min) | Version A        |           | Version B        |           | Version C |           | Version BS       |           |
|                        | right            | left      | right            | left      | right     | left      | right            | left      |
| 1,000                  | 301100101        | 301100102 | 301100103        | 301100104 | 301100105 | 301100106 | 301100107        | 301100108 |
| 1,500                  | 301100151        | 301100152 | 301100153        | 301100154 | 301100155 | 301100156 | 301100157        | 301100158 |
| 2,000                  | 301100201        | 301100202 | 301100203        | 301100204 | 301100205 | 301100206 | 301100207        | 301100208 |
| 2,500                  | 301100251        | 301100252 | 301100253        | 301100254 | 301100255 | 301100256 | 301100257        | 301100258 |
| 3,000                  | <b>301100301</b> | 301100302 | <b>301100303</b> | 301100304 | 301100305 | 301100306 | <b>301100307</b> | 301100308 |
| 3,500                  | 301100351        | 301100352 | 301100353        | 301100354 | 301100355 | 301100356 | 301100357        | 301100358 |
| 4,000                  | 301100401        | 301100402 | <b>301100403</b> | 301100404 | 301100405 | 301100406 | 301100407        | 301100408 |

| Order numbers Series 2 |                  |           |                  |           |           |           |                  |           |
|------------------------|------------------|-----------|------------------|-----------|-----------|-----------|------------------|-----------|
| Supply vol.<br>(l/min) | Version A        |           | Version B        |           | Version C |           | Version BS       |           |
|                        | right            | left      | right            | left      | right     | left      | right            | left      |
| 2,500                  | 302100251        | 302100252 | 302100253        | 302100254 | 302100255 | 302100256 | 302100257        | 302100258 |
| 4,000                  | 302100401        | 302100402 | 302100403        | 302100404 | 302100405 | 302100406 | 302100407        | 302100408 |
| 4,500                  | 302100451        | 302100452 | 302100453        | 302100454 | 302100455 | 302100456 | 302100457        | 302100458 |
| 5,000                  | 302100501        | 302100502 | 302100503        | 302100504 | 302100505 | 302100506 | 302100507        | 302100508 |
| 6,000                  | <b>302100601</b> | 302100602 | <b>302100603</b> | 302100604 | 302100605 | 302100606 | <b>302100607</b> | 302100608 |
| 8,000                  | 302100801        | 302100802 | 302100803        | 302100804 | 302100805 | 302100806 | 302100807        | 302100808 |
| 9,000                  | <b>302100901</b> | 302100902 | <b>302100903</b> | 302100904 | 302100905 | 302100906 | <b>302100907</b> | 302100908 |

| Order numbers Series 3 |                  |           |                  |           |           |           |                  |           |
|------------------------|------------------|-----------|------------------|-----------|-----------|-----------|------------------|-----------|
| Supply vol.<br>(l/min) | Version A        |           | Version B        |           | Version C |           | Version BS       |           |
|                        | right            | left      | right            | left      | right     | left      | right            | left      |
| 12,000                 | 303101201        | 303101202 | 303101203        | 303101204 | 303101205 | 303101206 | 303101207        | 303101208 |
| 16,000                 | <b>303101601</b> | 303101602 | <b>303101603</b> | 303101604 | 303101605 | 303101606 | <b>303101607</b> | 303101608 |

| Order numbers Series 4 |                  |           |                  |           |           |           |                  |           |
|------------------------|------------------|-----------|------------------|-----------|-----------|-----------|------------------|-----------|
| Supply vol.<br>(l/min) | Version A        |           | Version B        |           | Version C |           | Version BS       |           |
|                        | right            | left      | right            | left      | right     | left      | right            | left      |
| 21,000                 | <b>304102101</b> | 304102102 | <b>304102103</b> | 304102104 | 304102105 | 304102106 | <b>304102107</b> | 304102108 |
| 28,000                 | <b>304102801</b> | 304102802 | <b>304102803</b> | 304102804 | 304102805 | 304102806 | <b>304102807</b> | 304102808 |

| Order numbers Series 5 |                  |           |                  |           |           |           |                  |           |
|------------------------|------------------|-----------|------------------|-----------|-----------|-----------|------------------|-----------|
| Supply vol.<br>(l/min) | Version A        |           | Version B        |           | Version C |           | Version BS       |           |
|                        | right            | left      | right            | left      | right     | left      | right            | left      |
| 28,000                 | 305102801        | 305102802 | 305102803        | 305102804 | 305102805 | 305102806 | 305102807        | 305102808 |
| 36,000                 | 305103601        | 305103602 | 305103603        | 305103604 | 305103605 | 305103606 | 305103607        | 305103608 |
| 45,000                 | <b>305104501</b> | 305104502 | <b>305104503</b> | 305104504 | 305104505 | 305104506 | <b>305104507</b> | 305104508 |
| 50,000                 | 305105001        | 305105002 | 305105003        | 305105004 | 305105005 | 305105006 | 305105007        | 305105008 |
| 55,000                 | 305105501        | 305105502 | 305105503        | 305105504 | 305105505 | 305105506 | 305105507        | 305105508 |
| 60,000                 | 305106001        | 305106002 | 305106003        | 305106004 | 305106005 | 305106006 | 305106007        | 305106008 |
| 65,000                 | 305106501        | 305106502 | 305106503        | 305106504 | 305106505 | 305106506 | 305106507        | 305106508 |

- Type A: Without pressure limiting valve (no retrofitting possible)
- Type B: With integrated pressure limiting valve, adjusted to 30 bar or acc. to specification
- Type C: Pump for optional sense of rotation at constant delivery direction  
without pressure limiting valve
- Type BS: Like type B, with oil return line from the pressure limiting valve to the reservoir
- right: Drive and delivery direction right, clockwise
- left: Drive and delivery direction left, counter-clockwise