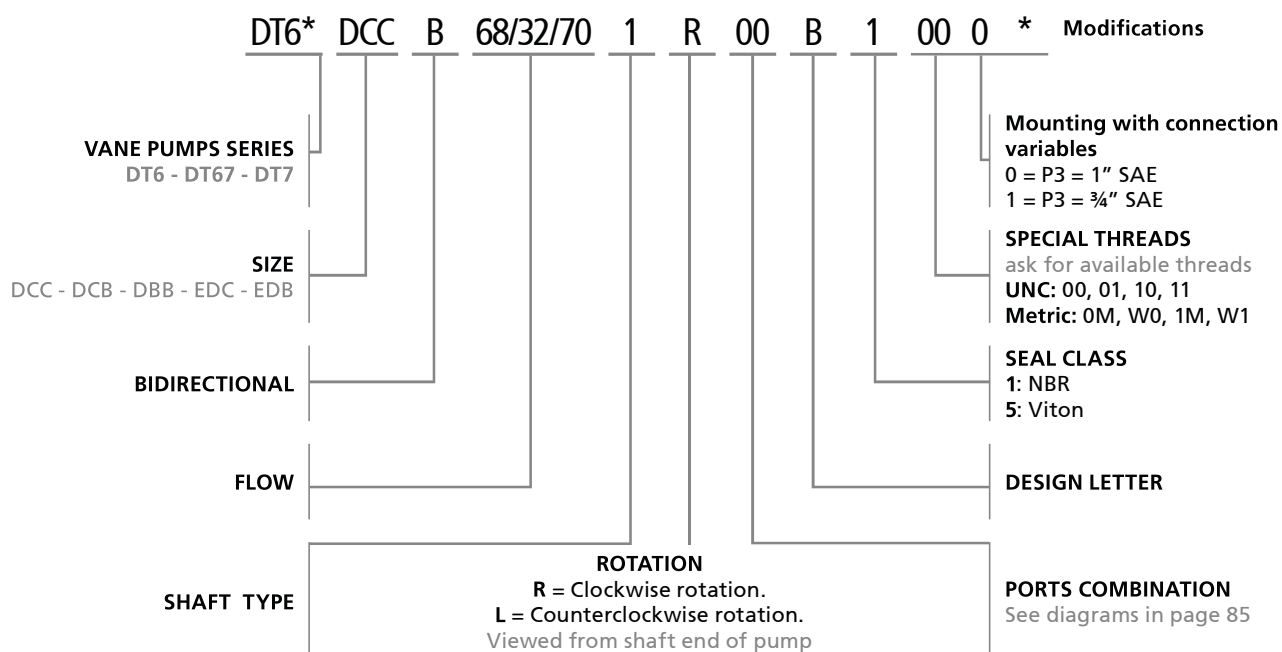


## ORDERING CODE



## GENERAL CHARACTERISTICS

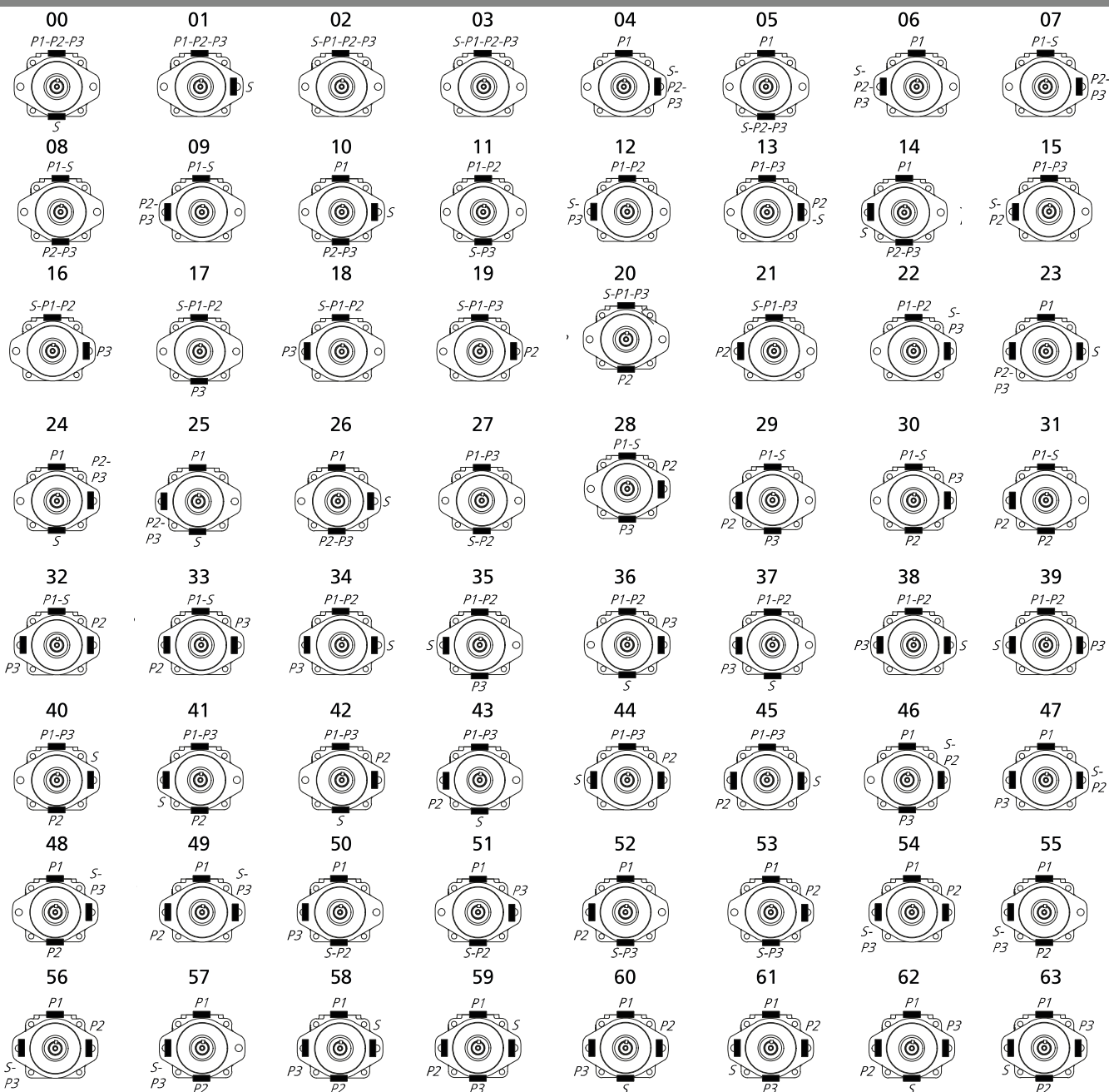
| TYPE      |                     |                   |                  |               |                     |                   |                  |               |                     |                   |                  |               | P1       | P2                   |     |            |          | P3   |      |  |  | SPEED | FRONT FLAN-GE | WEI-GHT | SAE 4 HOLES FLANGE |  |  |  |
|-----------|---------------------|-------------------|------------------|---------------|---------------------|-------------------|------------------|---------------|---------------------|-------------------|------------------|---------------|----------|----------------------|-----|------------|----------|------|------|--|--|-------|---------------|---------|--------------------|--|--|--|
| MODEL     | FLOW                |                   | MAX PRESS. (BAR) | NOMINAL POWER | FLOW                |                   | MAX PRESS. (BAR) | NOMINAL POWER | FLOW                |                   | MAX PRESS. (BAR) | NOMINAL POWER | RANGE    | SAE j744c ISO 3019-1 | KG  | SUC-TION S | PRESSURE |      |      |  |  |       |               |         |                    |  |  |  |
|           | GAL./min @ 1200 RPM | L./min @ 1000 RPM |                  |               | GAL./min @ 1200 RPM | L./min @ 1000 RPM |                  |               | GAL./min @ 1200 RPM | L./min @ 1000 RPM |                  |               |          |                      |     |            | P1       | P2   | P3   |  |  |       |               |         |                    |  |  |  |
| DT6DCC/M  | 14-61               | 48-191            | 240              | 10,7-42,4     | 3-31                | 11-100            | 275              | 2,4-22,2      | 3-31                | 11-100            | 275              | 2,4-22,2      | 500-2500 | SAEC                 | 61  | 4"         | 1 ¼"     | 1"   | 1 ¾" |  |  |       |               |         |                    |  |  |  |
| DT67DCB/M | 14-61               | 48-191            | 240              | 10,7-42,4     | 3-31                | 11-100            | 275              | 2,4-22,2      | 2-15                | 6-50              | 320              | 1,3-11,1      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT67DBB/M | 14-61               | 48-191            | 240              | 10,7-42,4     | 2-15                | 6-50              | 320              | 1,3-11,1      | 2-15                | 6-50              | 320              | 1,3-11,1      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT67DCC/M | 14-61               | 44-191            | 300              | 9,8-42,4      | 3-31                | 11-100            | 275              | 2,4-22,2      | 3-31                | 11-100            | 275              | 2,4-22,2      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT7DCB/M  | 14-61               | 44-191            | 300              | 9,8-42,4      | 3-31                | 11-100            | 275              | 2,4-22,2      | 2-15                | 6-50              | 320              | 1,3-11,1      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT7DBB/M  | 14-61               | 44-191            | 300              | 9,8-42,4      | 2-15                | 6-50              | 320              | 1,3-11,1      | 2-15                | 6-50              | 320              | 1,3-11,1      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT6EDC/M  | 42-85               | 132-270           | 240              | 29,3-60       | 14-61               | 48-191            | 240              | 10,7-42,4     | 3-31                | 11-100            | 275              | 2,4-22,2      | 500-2200 |                      | 100 |            | 1 ½"     | 1 ¼" |      |  |  |       |               |         |                    |  |  |  |
| DT67EDB/M | 42-85               | 132-270           | 240              | 29,3-60       | 14-61               | 48-191            | 240              | 10,7-42,4     | 2-15                | 6-50              | 320              | 1,3-11,1      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT67EDC/M | 42-85               | 132-270           | 240              | 29,3-60       | 14-61               | 44-191            | 300              | 9,8-42,4      | 3-31                | 11-100            | 275              | 2,4-22,2      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |
| DT7EDB/M  | 42-85               | 132-270           | 240              | 29,3-60       | 14-61               | 44-191            | 300              | 9,8-42,4      | 2-15                | 6-50              | 320              | 1,3-11,1      |          |                      |     |            |          |      |      |  |  |       |               |         |                    |  |  |  |

### EXCEPTIONS TABLE

| MODEL                          | 7B   |     |     |     | 6C   |     |     | 6D   |     |      | 7D   |     |     |     | 6E   |
|--------------------------------|------|-----|-----|-----|------|-----|-----|------|-----|------|------|-----|-----|-----|------|
| FLOW                           | 011  | 012 | 014 | 015 | 025  | 028 | 031 | 035  | 038 | 042  | 042  | 045 | 050 | 061 | 085  |
| MAX INTERMITENT PRESSURE (BAR) | 300  |     |     | 280 | -    | 210 |     | 280  |     | 260  | -    |     | 210 | 120 | 90   |
| RPM MAX                        | 3000 |     |     |     | 2500 |     |     | 2800 |     | 2500 | 2200 |     |     |     | 2000 |

## PORTING COMBINATION

## PORTING COMBINATION



**S** = Suction port | **P1** = Shaft end pressure port | **P2** = Middle pressure port | **P3** = Cover end pressure port

**DT6EDC / DT6EDCM / DT7EDB / DT67EDB / DT67EDC\***  
**OPERATING CHARACTERISTICS**

| T6E SHAFT END FLOW  |     |     |     |     |     |     |     |     |     |  | SPEED(rpm) |       | PRESSURE (bar) |            |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|------------|-------|----------------|------------|
| Lts/min.at 1000 rpm | 132 | 142 | 156 | 165 | 183 | 197 | 213 | 227 | 270 |  | Mín.       | Máx.* | Contin.*       | Intermit.* |
| Gal/min.at1200 rpm  | 42  | 45  | 50  | 52  | 57  | 62  | 66  | 72  | 85  |  | 500        | 2200  | 210            | 240        |

| T6D MIDDLE SECTION FLOW |    |    |    |    |    |     |     |     |     |     |     | SPEED(rpm) |       | PRESSURE (bar) |            |
|-------------------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------------|-------|----------------|------------|
| Lts/min.at 1000 rpm     | 48 | 66 | 80 | 90 | 98 | 111 | 120 | 136 | 146 | 158 | 191 | Mín.       | Máx.* | Contin.*       | Intermit.* |
| Gal/min.at1200 rpm      | 14 | 20 | 24 | 28 | 31 | 35  | 38  | 42  | 45  | 50  | 61  | 500        | 2500  | 210            | 240        |

| T7DS MIDDLE SECTION FLOW |    |    |    |    |    |    |    |     |     |     |     |     |     | SPEED(rpm) |       | PRESSURE (bar) |            |
|--------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------------|-------|----------------|------------|
| Lts/min.at 1000 rpm      | 44 | 55 | 66 | 70 | 81 | 90 | 99 | 113 | 121 | 138 | 146 | 158 | 191 | Mín.       | Máx.* | Contin.*       | Intermit.* |
| Gal/min.at1200 rpm       | 14 | 17 | 20 | 22 | 24 | 28 | 31 | 35  | 38  | 42  | 45  | 50  | 61  | 600        | 3000  | 250            | 300        |

| T6C COVER END FLOW  |    |    |    |    |    |    |    |    |    |    |    |    |     | SPEED(rpm) |       | PRESSURE (bar) |            |
|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|------------|-------|----------------|------------|
| Lts/min.at 1000 rpm | 11 | 17 | 21 | 26 | 34 | 37 | 46 | 58 | 64 | 70 | 79 | 89 | 100 | Mín.       | Máx.* | Contin.*       | Intermit.* |
| Gal/min.at1200 rpm  | 3  | 5  | 6  | 8  | 10 | 12 | 14 | 17 | 20 | 22 | 25 | 28 | 31  | 500        | 2800  | 240            | 275        |

| T7BS COVER END FLOW |   |    |    |    |    |    |    |    |    |    |    |    |    | SPEED(rpm) |       | PRESSURE (bar) |            |
|---------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|------------|-------|----------------|------------|
| Lts/min.at 1000 rpm | 6 | 10 | 13 | 16 | 20 | 22 | 25 | 28 | 32 | 35 | 41 | 45 | 50 | Min.       | Máx.* | Contin.*       | Intermit.* |
| Gal/min.at1200 rpm  | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 14 | 15 | 500        | 3600  | 290            | 320        |

\* See page 41 for further information about speed & pressure

**FLOW & INPUT POWER DIAGRAMS**

| SHAFT END                                                         | MIDDLE BODY                                                        | COVER END                                                          |
|-------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| See DT6E Single Pumps for flow and input power diagrams (page 50) | See DT6D Single Pumps for flow and input power diagrams (page 48)  | See DT6C Single Pumps for flow and input power diagrams (page 46)  |
|                                                                   | See DT7DS single pumps for flow and input power diagrams (page 44) | See DT7BS single pumps for flow and input power diagrams (page 42) |

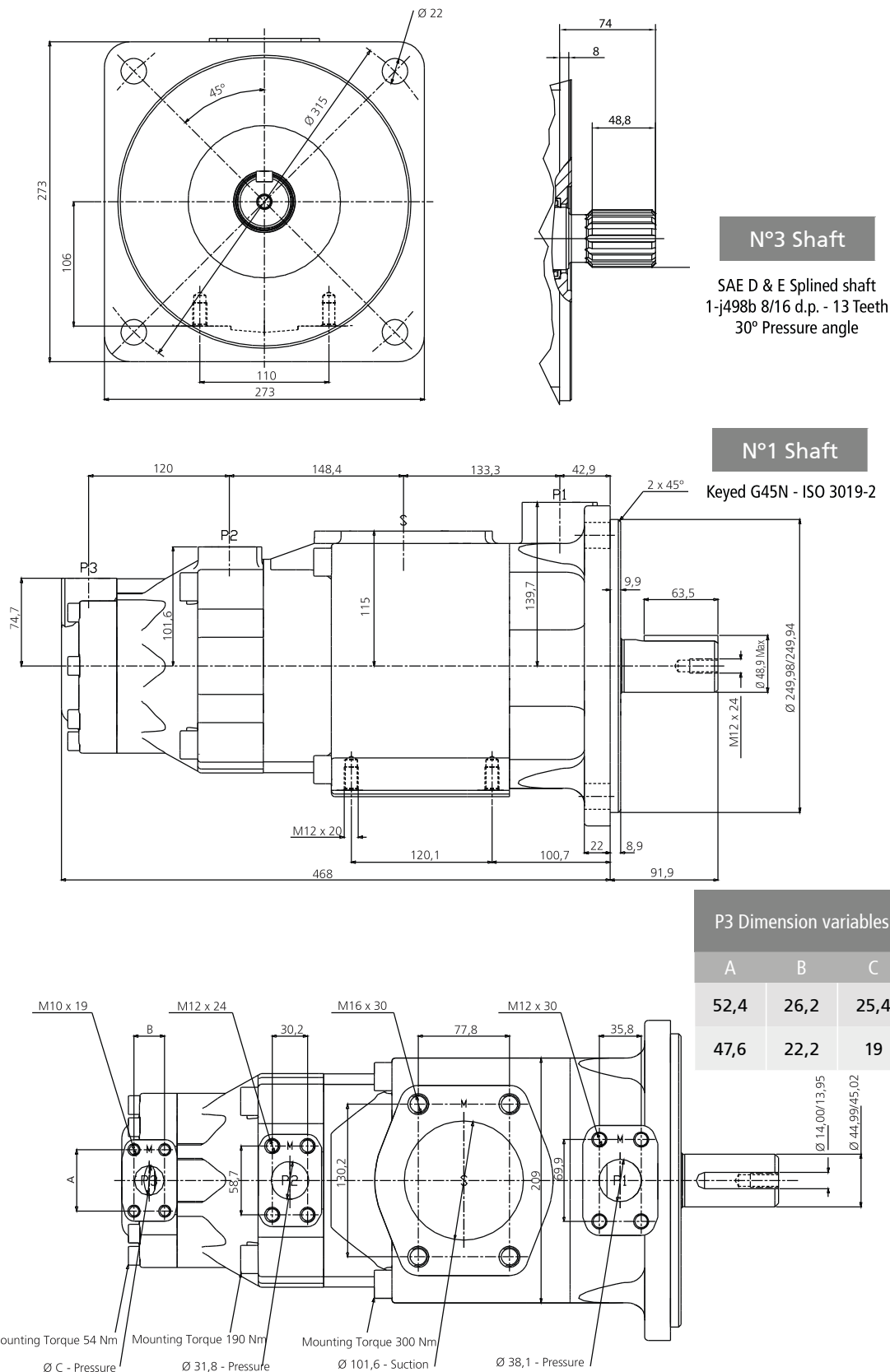
| P3 Mounting w/ connection variables |        |     |
|-------------------------------------|--------|-----|
| UNC                                 | 00     | 01  |
| METRIC                              | M0     | M1  |
| S                                   | 4"     |     |
| P1                                  | 1 1/4" |     |
| P3                                  | 1      | 3/4 |

# DT6EDC / DT6EDCM / DT7EDB / DT67EDB / DT67EDC\*

## DIMENSIONS

DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm

\*FOR FURTHER INFO ABOUT DT67B &amp; DT67D SEE PAGE 42 &amp; PAGE 44 RESPECTIVELY

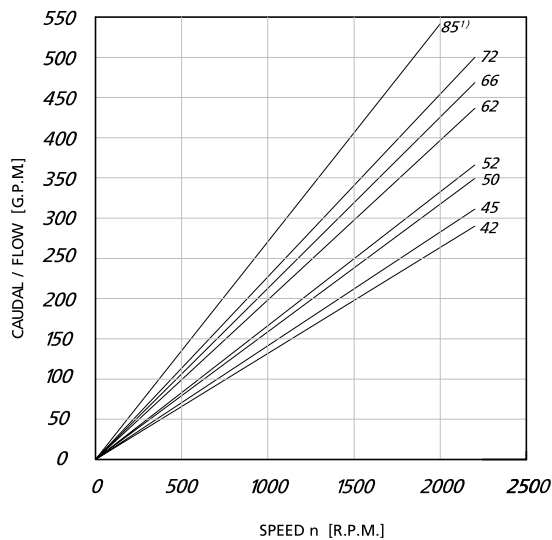


ADDITIONAL SHAFT CODES: SEE ON PAGES 114-118

## DT6E OPERATING CHARACTERISTICS

|                     | FLOW |     |     |     |     |     |     |     |     | SPEED(rpm) |       | PRESSURE (bar) |            | WEIGHT |
|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|-------|----------------|------------|--------|
| Lts/min.at 1000 rpm | 132  | 142 | 159 | 165 | 183 | 197 | 213 | 227 | 270 | Mín.       | Máx.* | Contin.*       | Intermit.* | (Kgs.) |
| Gal./min.at1200 rpm | 42   | 45  | 50  | 52  | 57  | 62  | 66  | 72  | 85  | 500        | 2200  | 210            | 240        | 44     |

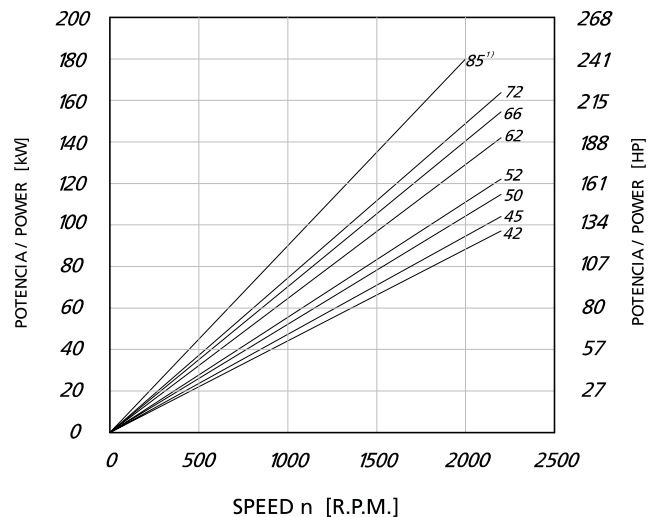
\* See page 41 for further information about speed & pressure.



<sup>1)</sup> B85 = 90 bar max. int. / 2000 rpm max.

### Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).



<sup>1)</sup> B85 = 90 bar max. int. / 2000 rpm

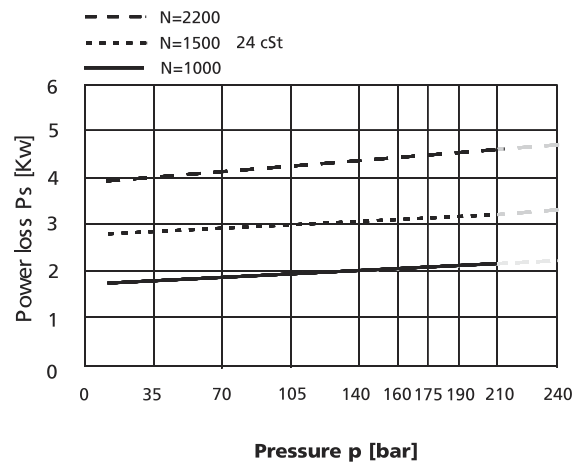
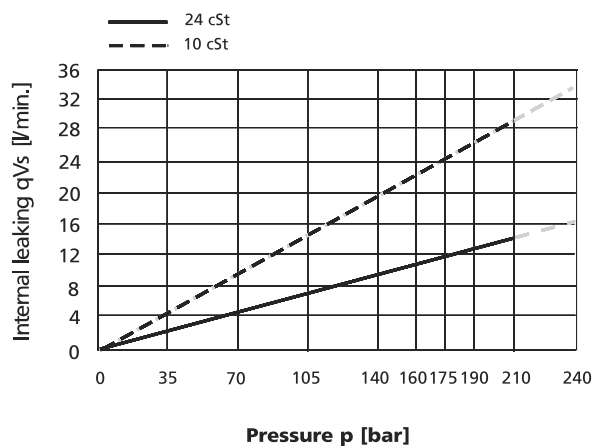
### Theoretical Input Power at 200 Bar<sup>1)</sup>

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).

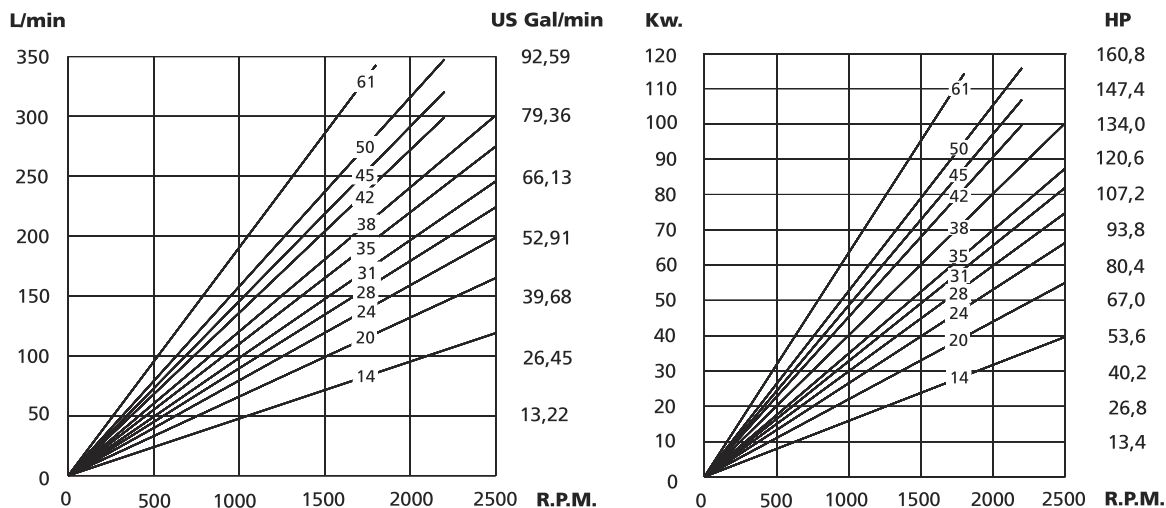


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow

## DT6D OPERATING CHARACTERISTICS

|                     | FLOW |    |    |    |    |     |     |     |     |     |     | SPEED(rpm) |       | PRESSURE (bar) |            | WEIGHT |
|---------------------|------|----|----|----|----|-----|-----|-----|-----|-----|-----|------------|-------|----------------|------------|--------|
| Lts/min.at 1000 rpm | 48   | 66 | 80 | 90 | 98 | 111 | 120 | 136 | 146 | 158 | 191 | Mín.       | Máx.* | Contin.*       | Intermit.* | (Kgs.) |
| Gal./min.at1200 rpm | 14   | 20 | 24 | 28 | 31 | 35  | 38  | 42  | 45  | 50  | 61  | 500        | 2500  | 210            | 240        | 24     |

\* See page 41 for further information about speed & pressure.



### Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

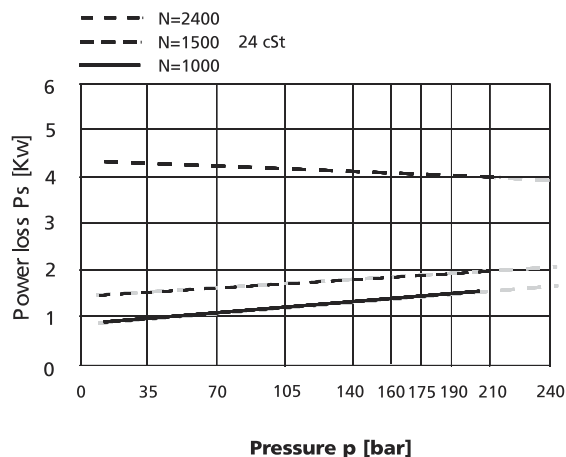
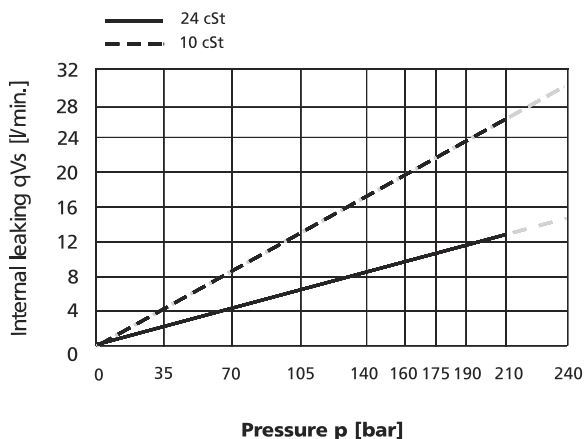
### Theoretical Input Power at 200 Bar

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).



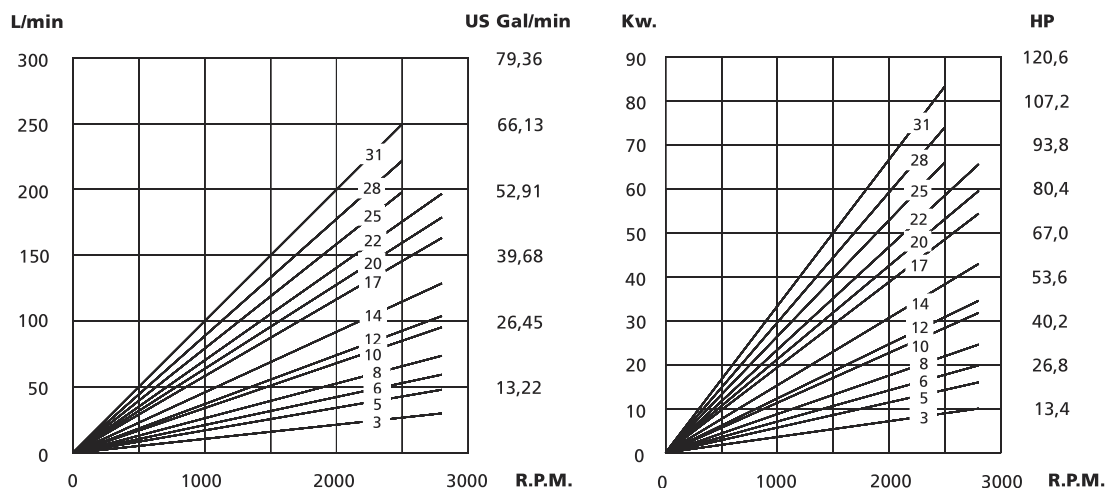
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow

# DT6C OPERATING CHARACTERISTICS

| FLOW                |    |    |    |    |    |    |    |    |    |    |    |    |     | SPEED(rpm) |       | PRESSURE (bar) |            | WEIGHT |
|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|------------|-------|----------------|------------|--------|
| Lts/min.at 1000 rpm | 11 | 17 | 21 | 26 | 34 | 37 | 46 | 58 | 64 | 70 | 79 | 89 | 100 | Mín.       | Máx.* | Contin.*       | Intermit.* | (Kgs.) |
| Gal/min.at1200 rpm  | 3  | 5  | 6  | 8  | 10 | 12 | 14 | 17 | 20 | 22 | 25 | 28 | 31  | 500        | 2800  | 240            | 275        | 15     |

\* See page 41 for further information about speed & pressure.

DIMENSIONS IN MILLIMETERS. 1" = 25,4 mm



## Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

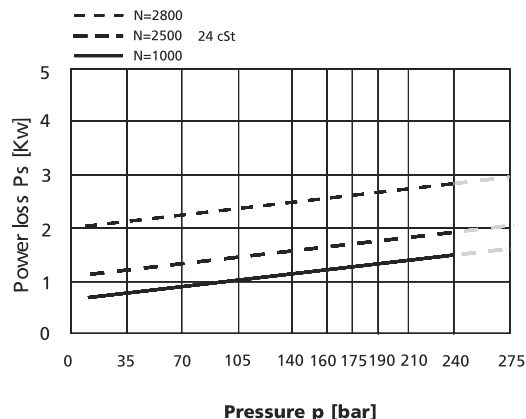
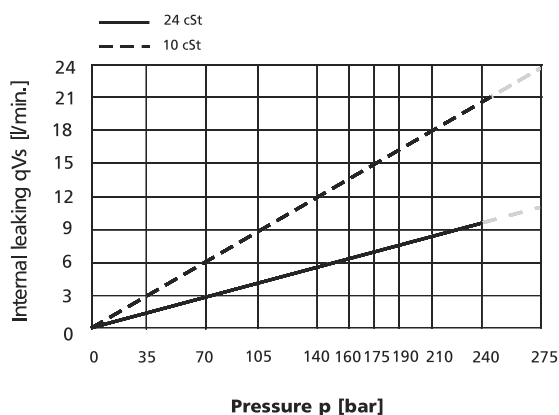
## Theoretical Input Power at 200 Bar

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).

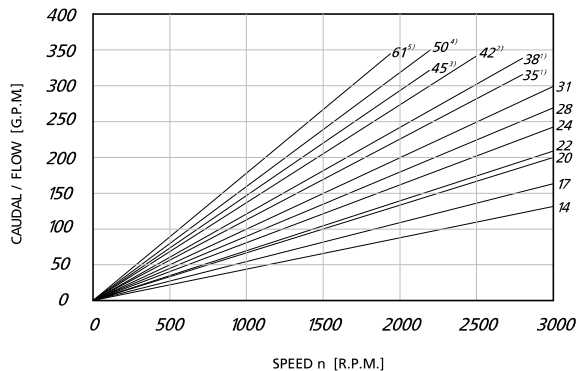


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow

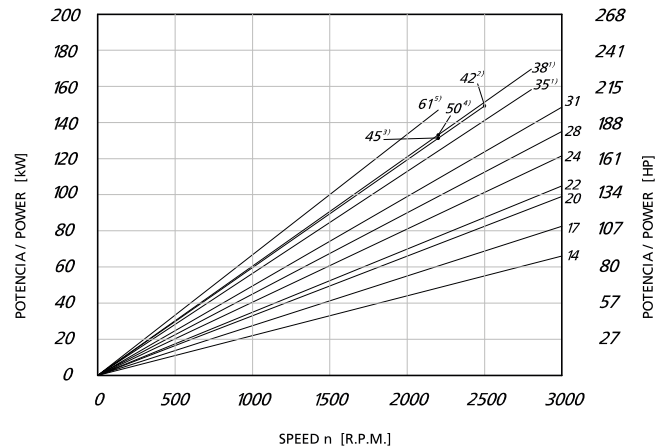
## DT7DS / DT67D OPERATING CHARACTERISTICS

| FLOW                |    |    |    |    |    |    |    |     |     |     |     |     |     | SPEED(rpm) |       | PRESSURE (bar) |            | WEIGHT |
|---------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------------|-------|----------------|------------|--------|
| Lts/min.at 1000 rpm | 44 | 55 | 66 | 70 | 81 | 90 | 99 | 113 | 121 | 138 | 146 | 158 | 191 | Mín.       | Máx.* | Contin.*       | Intermit.* | (Kgs.) |
| Gal./min.at1200 rpm | 14 | 17 | 20 | 22 | 24 | 28 | 31 | 35  | 38  | 42  | 45  | 50  | 61  | 600        | 3000  | 250            | 300        | 29     |

\* See page 41 for further information about speed & pressure.



- <sup>1)</sup> B35 - B38 = 280 bar max. int. / 2800 rpm max.
- <sup>2)</sup> B42 = 260 bar max. int. / 2500 rpm max.
- <sup>3)</sup> B45 = 240 bar max. int. / 2200 rpm max.
- <sup>4)</sup> B50 = 210 bar max. int. / 2200 rpm max.
- <sup>5)</sup> B61 = 120 bar max. int. / 1800 rpm max.



#### Theoretical Flow (0 Bar)

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

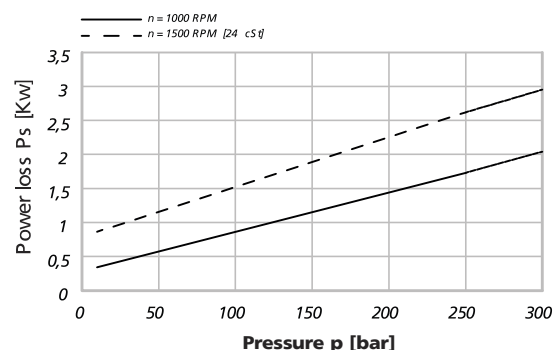
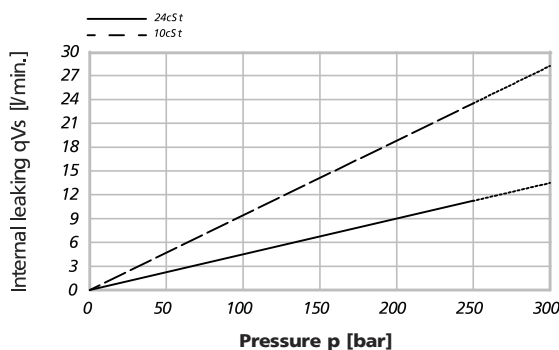
#### Theoretical Input Power at max. int. pressure

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).



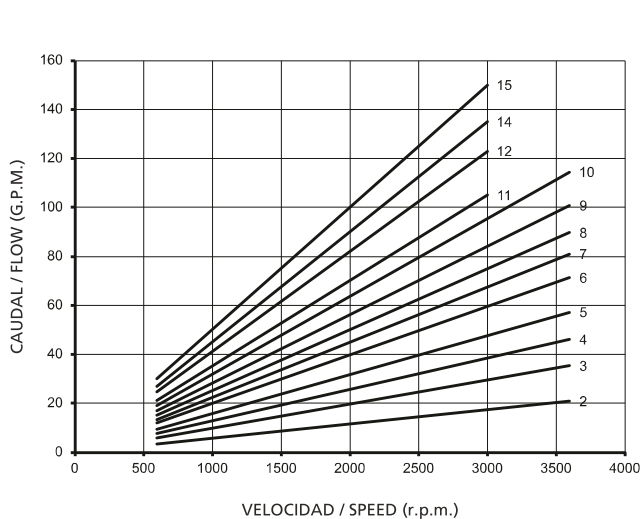
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow



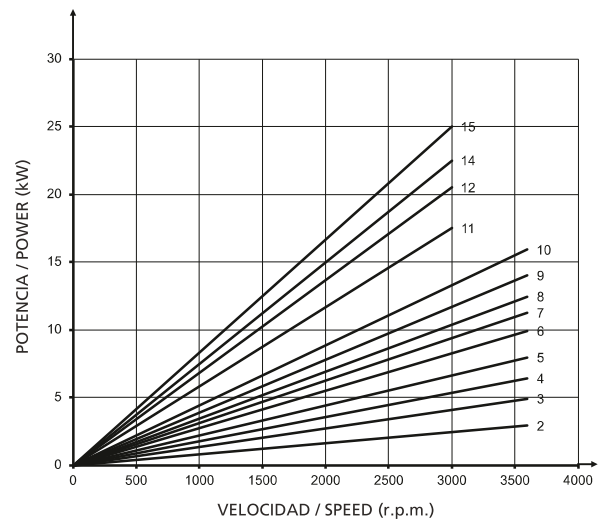
**DT7BS / DT67B CHARACTERISTICS**

| FLOW                |   |    |    |    |    |    |    |    |    |    |    |    |    |      | SPEED(rpm) |          | PRESSURE (bar) |        | WEIGHT |
|---------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|------|------------|----------|----------------|--------|--------|
| Lts/min.at 1000 rpm | 6 | 10 | 13 | 16 | 20 | 22 | 25 | 28 | 32 | 35 | 41 | 45 | 50 | Mín. | Máx.*      | Contin.* | Intermit.*     | (Kgs.) |        |
| Gal/min.at1200 rpm  | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 14 | 15 | 500  | 3600       | 290      | 320            | 23     |        |

\* See page 41 for further information about speed & pressure.


**Theoretical Flow (0 Bar)**

To calculate the real flow at a given operating pressure, subtract the internal leakage value for this pressure (see diagram below) from the theoretical flow. (See diagram above).

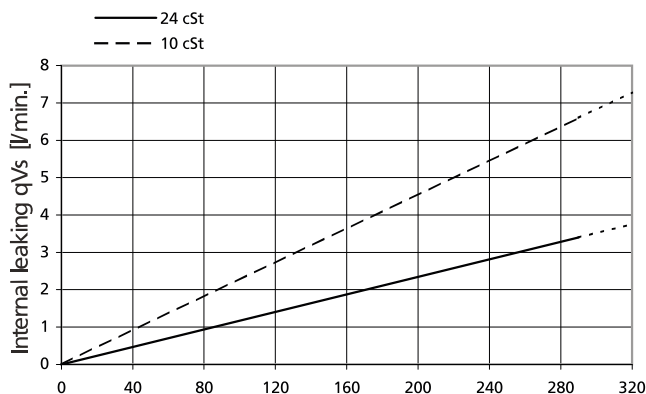
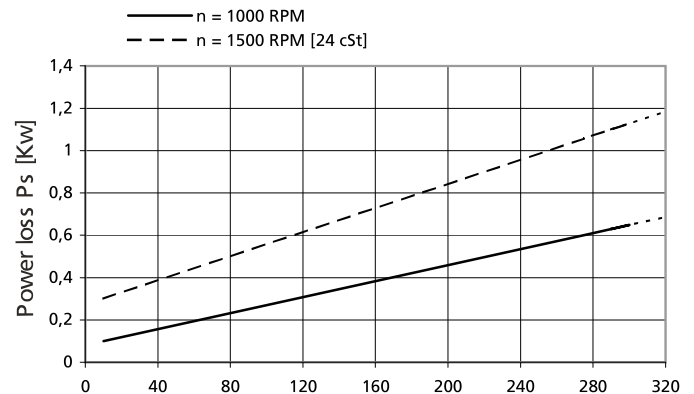

**Theoretical Input Power at 300 Bar**

To calculate the theoretical input power at other pressures and speeds, use the formula:

$$P(Kw) = \frac{Q(L/min.) \times P(Bar)}{600}$$

Where Q is the theoretical flow (upper left diagram) and P the operating pressure.

To calculate the real input power, add to the theoretical power the hydromechanical power losses (see diagram below).


**Pressure p [bar]**

**Pressure p [bar]**

Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow