

|             |      |   |      |              |          |       |        |            |                   |                    |                                 |                                  |   |
|-------------|------|---|------|--------------|----------|-------|--------|------------|-------------------|--------------------|---------------------------------|----------------------------------|---|
| <b>PG</b>   | □    | □ | □    | □            | □        | □     | □      | □          | □                 | □                  | □                               | □                                | □ |
| Gear Design | Type |   | Unit | Displacement | Rotation | Shaft | Flange | Shaft Seal | Side Suction Port | Side Pressure Port | Rear Suction Port <sup>1)</sup> | Rear Pressure Port <sup>1)</sup> |   |

| Code | Type  |
|------|-------|
| P    | Pump  |
| M    | Motor |

| Design         |            |
|----------------|------------|
| Pump and Motor | <b>620</b> |
| Pump           | <b>625</b> |

| Code | Unit          |                                                   |
|------|---------------|---------------------------------------------------|
|      | Pump          | Motor                                             |
| A    | Single unit   | Standard Motor without checks                     |
| B    | Multiple unit | Standard Motor with two checks                    |
| C    | —             | Standard Motor w. one anti cavitation check (ACC) |

| Displacement |         |         |
|--------------|---------|---------|
| Code         | Design  |         |
|              | 620 ccm | 625 ccm |
| 0160         | 16      | —       |
| 0190         | 19      | —       |
| 0230         | 23      | —       |
| 0260         | 26      | —       |
| 0290         | 29      | —       |
| 0330         | 33      | —       |
| 0360         | 36      | 36      |
| 0370         | 37      | —       |
| 0410         | 41      | 41      |
| 0440         | 44      | —       |
| 0450         | —       | 45      |
| 0500         | 50      | 50      |
| 0520         | 52      | —       |

| Code | Rotation          |
|------|-------------------|
| C    | Clockwise         |
| A    | Counter clockwise |
| B    | bi-directional    |

| Code | Shaft Seal |
|------|------------|
| X    | No seal    |
| N    | NBR        |
| V    | FPM, FKM   |
| M    | Double NBR |
| W    | Double FPM |

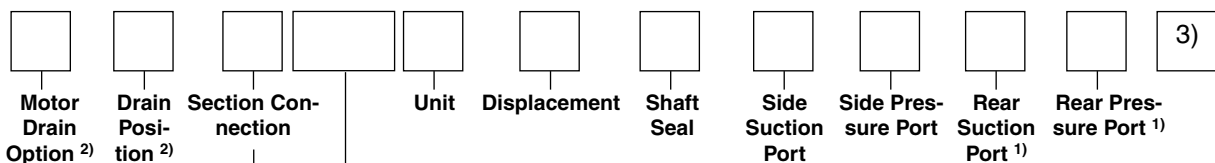
| Code             | Shaft                                        |
|------------------|----------------------------------------------|
| D1               | 13T, 16/32DP, 41.2L, SAE "B" spline          |
| E1               | 15T, 16/32DP, 46L, SAE "B-B" spline          |
| E4 <sup>4)</sup> | 14T, 12/24 DP, 55.6L, SAE "C" spline         |
| M3               | Ø25.4, 6.3 Key, M8, 46L, SAE "B-B", parallel |
| T1               | Ø21.59, 11.2L, 4.0 Key, M14x1.5, taper 1:8   |
| T2 <sup>5)</sup> | Ø25.0, 12L, 5.0 Key, M16x1.5, taper 1:5      |

<sup>4)</sup> ( via drive adaptor)  
<sup>5)</sup> Non standard, on request only

Not all variances of ordering codes can be offered. Please check available part numbers first.  
 For not yet implemented part numbers or special requests please contact Parker Hannifin.

<sup>1)</sup> Only coded for the last section.

<sup>2)</sup> Only for motors



| Design         |            |
|----------------|------------|
| Pump and Motor | <b>620</b> |
| Pump           | <b>625</b> |

| Code | Section Connection |
|------|--------------------|
| S    | Separate inlets    |
| C    | Common inlets      |

| Code            | Drain Position  |
|-----------------|-----------------|
| 2 <sup>6)</sup> | Drain on bottom |
| 3 <sup>6)</sup> | Drain on top    |
| 4               | Rear drain      |

<sup>6)</sup> Non standard, on request only

| Code | Motor Drain Option |
|------|--------------------|
| B1   | no drain           |
| C    | 9/16-18 UNF thread |
| G    | 1/4 BSP thread     |

| Code | Flange                                    |
|------|-------------------------------------------|
| A3   | 89.8x89.8 - Ø101.6, SAE "B" 4 bolt square |
| A4   | 114.5x114.5 - Ø127, SAE "C" 4 bolt square |
| D7   | 98.4x128.2 - Ø50.77 rectangular           |
| H2   | 106.4 - Ø82.55 SAE "A" 2 bolt flange      |
| H3   | 146.1 - Ø101.6 SAE "B" 2 bolt flange      |
| L3   | 89.8x89.8 - 101.6 SAE "B" 2/4 bolt flange |

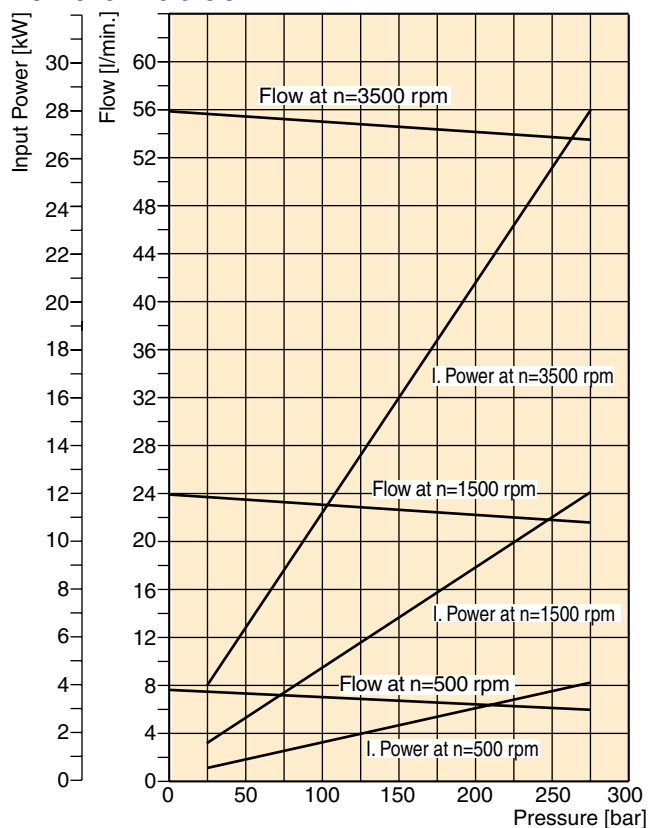
| Code               | Port Options               | Code               | Port Options                             |
|--------------------|----------------------------|--------------------|------------------------------------------|
| B1                 | No ports                   | S2 <sup>6)</sup> * | 3/4"-3/8-16 UNC SAE Split Flange         |
| D3 <sup>6)</sup>   | 3/4 - 16 UNF thread        | S3 <sup>6)</sup> * | 1"-3/8-16 UNC SAE Split Flange           |
| D4 <sup>6)</sup>   | 7/8 - 14 UNF thread        | S4 <sup>6)</sup> * | 1 1/4"-7/16-14 UNC SAE Split Flange      |
| D5 <sup>6)</sup>   | 1 1/16 - 12 UN thread      | S5 <sup>6)</sup> * | 1 1/2"-1/2-13 UNC SAE Split Flange       |
| D6 <sup>6)</sup> * | 1 5/16 - 12 UN thread      | S6 <sup>6)</sup> * | 2"-1/2-13 UNC SAE Split Flange           |
| D7 <sup>6)</sup> * | 1 5/8 - 12 UN thread       | T2*                | 19.0 mm - M10 3/4" Metric Split Flange   |
| D8 <sup>6)</sup> * | 1 7/8 - 12 UN thread       | T3*                | 25.4 mm - M10 1" Metric Split Flange     |
| E3                 | 1/2 - 14 BSP thread        | T4*                | 31.8 mm - M10 1 1/4" Metric Split Flange |
| E4                 | 5/8 - 14 BSP thread        | T5*                | 38.1 mm - M12 1 1/2" Metric Split Flange |
| E5                 | 3/4 - 16 BSP thread        | T6*                | 50.8 mm - M12 2" Metric Split Flange     |
| E6*                | 1 - 11 BSP thread          |                    |                                          |
| E7*                | 1 1/4 - 11 BSP thread      |                    |                                          |
| E8*                | 1 1/2 - 11 BSP thread      |                    |                                          |
| J5*                | 15 mm - Ø35 mm - M6 square |                    |                                          |
| J7*                | 20 mm - Ø40 mm - M6 square |                    |                                          |
| J8*                | 18 mm - Ø55 mm - M8 square |                    |                                          |
| J9*                | 26 mm - Ø55 mm - M8 square |                    |                                          |
| L1*                | 13 mm-Ø30 mm-M6 diamond    |                    |                                          |
| L2*                | 19 mm-Ø40 mm-M8 diamond    |                    |                                          |
| L3*                | 27 mm-Ø51 mm-M10 diamond   |                    |                                          |

<sup>6)</sup> Non standard, on request only

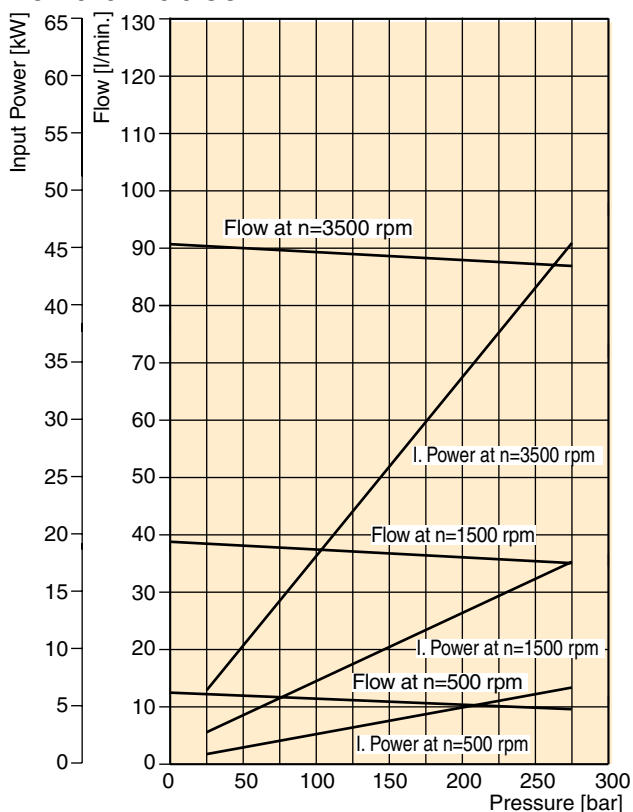
\*) Not usable for rear ports

- <sup>3)</sup> For further "B" triple unit repeat displacement, shaft seal between sections, side suction port, side pressure port, rear suction port, rear pressure port.

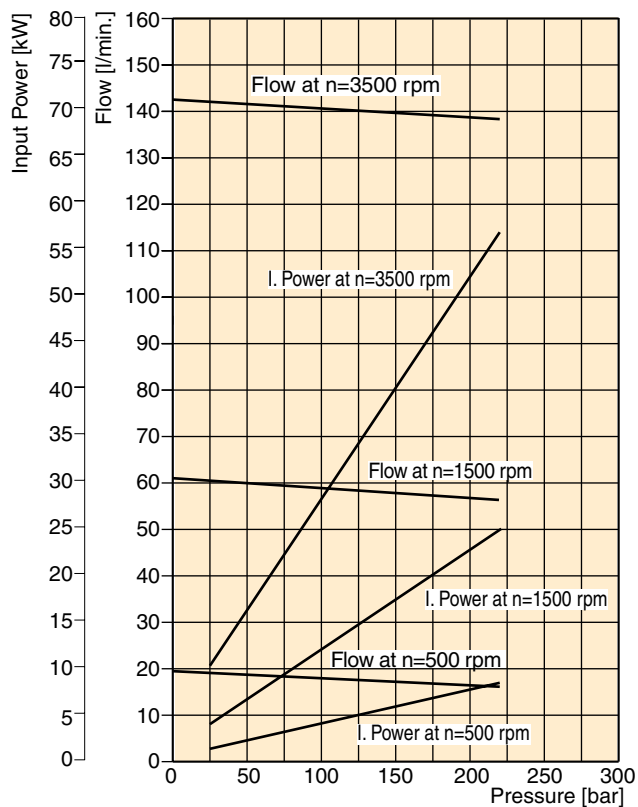
### PGP 620 - 16.0 CC



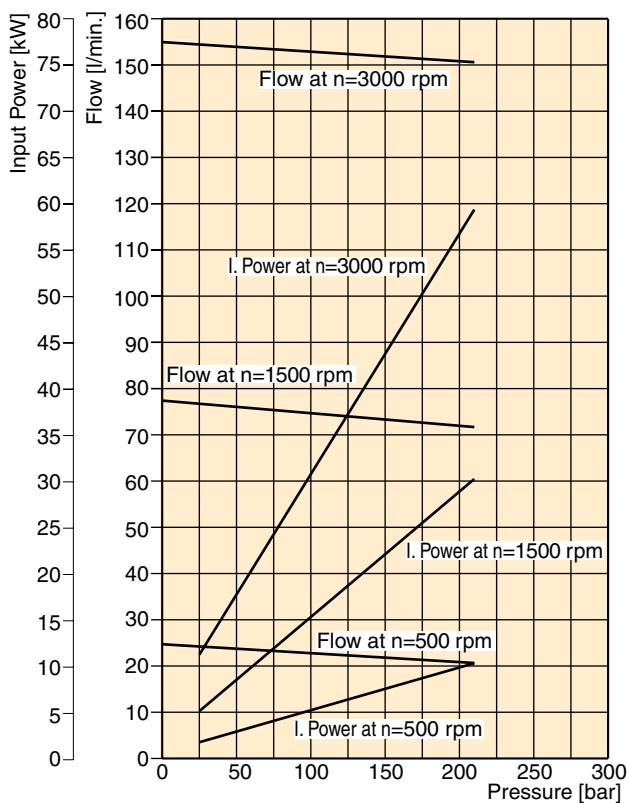
### PGP 620 - 26.0 CC



### PGP 620 - 41.0 CC



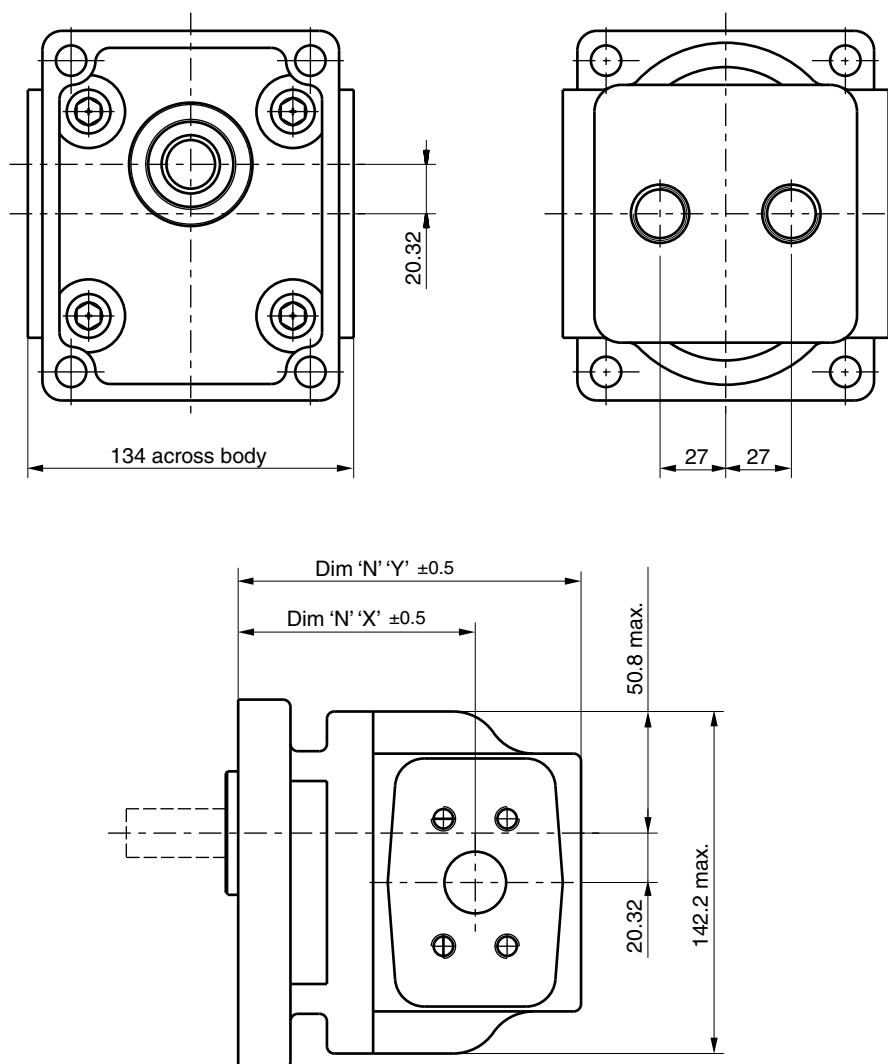
### PGP 620 - 52.0 CC



Fluid Temperature =  $45 \pm 2$  °C  
Viscosity =  $36 \text{ mm}^2/\text{s}$   
Inlet Pressure =  $0.9 + 0.1$  bar absolute

## PGP/PGM 620 Specification - Standard Displacements - Single Unit

| Pump Displacement                                 | Code                 | 0160  | 0190  | 0230  | 0260  | 0290  | 0330  | 0360  | 0370  | 0410  | 0440  | 0500  | 0520  |
|---------------------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                   | cm <sup>3</sup> /rev | 16.0  | 19.0  | 23.0  | 26.0  | 29.0  | 33.0  | 36.0  | 37.0  | 41.0  | 44.0  | 50.0  | 52.0  |
| Max. Continuous Pressure                          | bar                  | 275   | 275   | 275   | 275   | 275   | 275   | 250   | 250   | 220   | 210   | 210   | 210   |
| Minimum Speed<br>@ Max. outlet pressure           | rpm                  | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |
| Maximum Speed<br>@ 0 Inlet & Max. outlet pressure | rpm                  | 3500  | 3500  | 3500  | 3500  | 3500  | 3500  | 3500  | 3500  | 3500  | 3500  | 3000  | 3000  |
| Dimension "X"                                     | mm                   | 79.2  | 82.5  | 86.9  | 90.2  | 93.5  | 97.9  | 101.2 | 102.3 | 106.7 | 110.0 | 116.6 | 118.8 |
| Dimension "Y"                                     | mm                   | 122.7 | 126.0 | 130.4 | 133.7 | 137.0 | 141.4 | 144.7 | 145.8 | 150.2 | 153.5 | 160.1 | 162.3 |
| Approx. Weight                                    | kg                   | 12.0  | 12.1  | 12.2  | 12.3  | 12.6  | 12.7  | 12.8  | 12.9  | 13.0  | 13.1  | 13.3  | 13.4  |

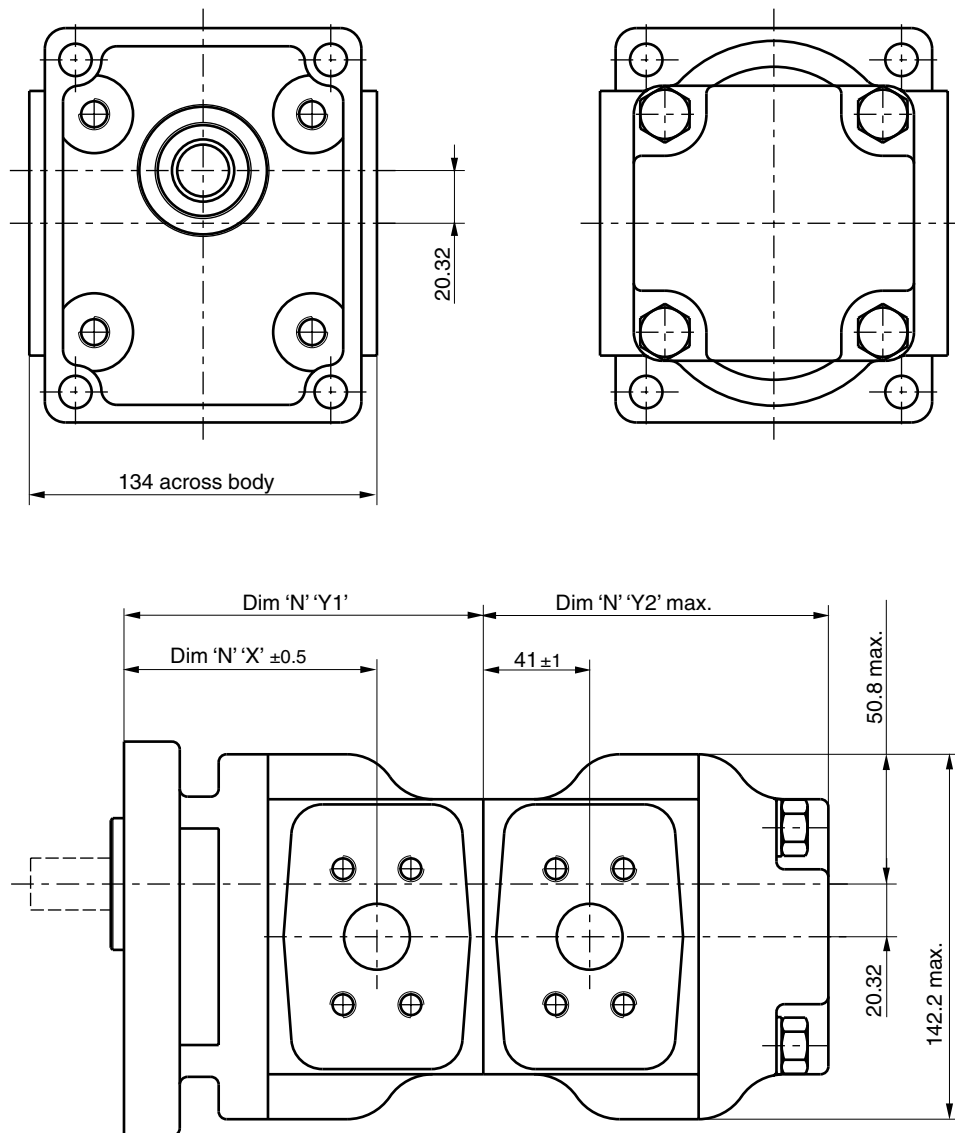


Dimension Flanges see pages 63 to 64

Dimension Shafts see pages 67 to 68

**PGP/PGM 620 Specification - Standard Displacements - Tandem Unit**

| Pump Displacement                     | Code    | 0160  | 0190  | 0230  | 0260  | 0290  | 0330  | 0360  | 0370  | 0410  | 0440  | 0500  | 0520  |
|---------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                       | cm³/rev | 16.0  | 19.0  | 23.0  | 26.0  | 29.0  | 33.0  | 36.0  | 37.0  | 41.0  | 44.0  | 50.0  | 52.0  |
| Dimension "X"                         | mm      | 79.2  | 82.5  | 86.9  | 90.2  | 93.5  | 97.9  | 101.2 | 102.3 | 106.7 | 110.0 | 116.6 | 118.8 |
| Dimension "Y1 "                       | mm      | 120.2 | 123.5 | 127.9 | 131.2 | 134.5 | 138.9 | 142.2 | 143.3 | 147.7 | 151.0 | 157.6 | 159.8 |
| Dimension "Y2" max.                   | mm      | 115.2 | 118.5 | 122.9 | 126.2 | 129.5 | 133.9 | 137.2 | 138.3 | 142.7 | 146.0 | 152.6 | 154.8 |
| Approximate Weight<br>(front section) | kg      | 12.0  | 12.1  | 12.2  | 12.3  | 12.6  | 12.7  | 12.8  | 12.9  | 13.0  | 13.1  | 13.3  | 13.4  |
| Approx. Weight<br>(rear section)      | kg      | 10.4  | 10.5  | 10.6  | 10.7  | 11.0  | 11.1  | 11.2  | 11.3  | 11.4  | 11.5  | 11.7  | 11.8  |

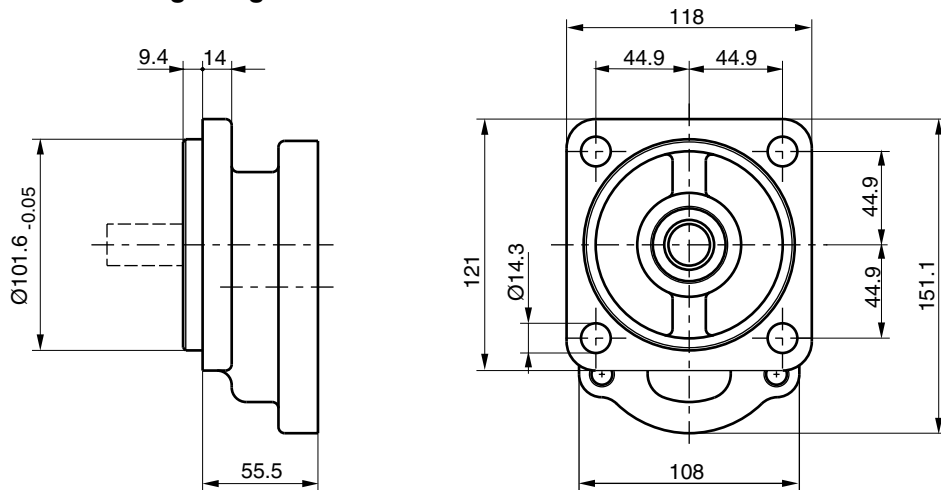


**Dimension Flanges** see pages 63 to 64

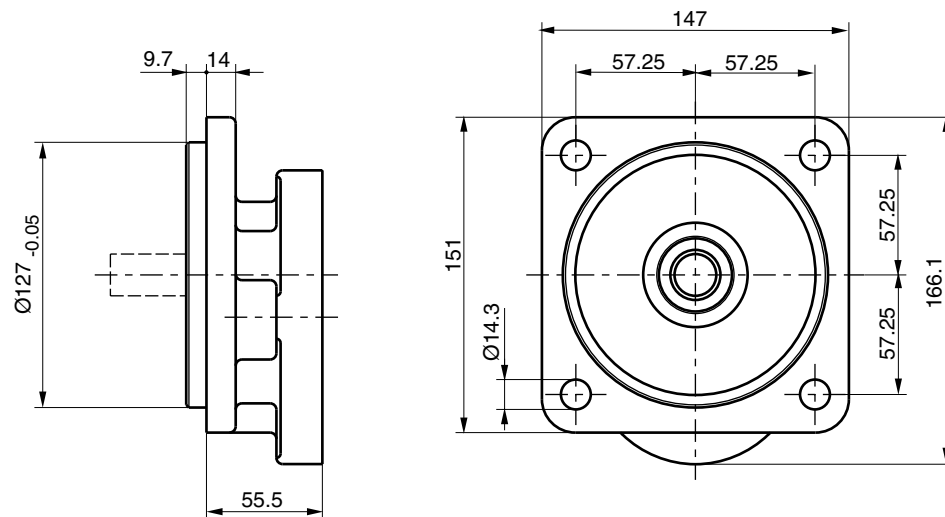
**Dimension Shafts** see pages 67 to 68

**PGP/PGM 620 / 625 Mounting Flange**

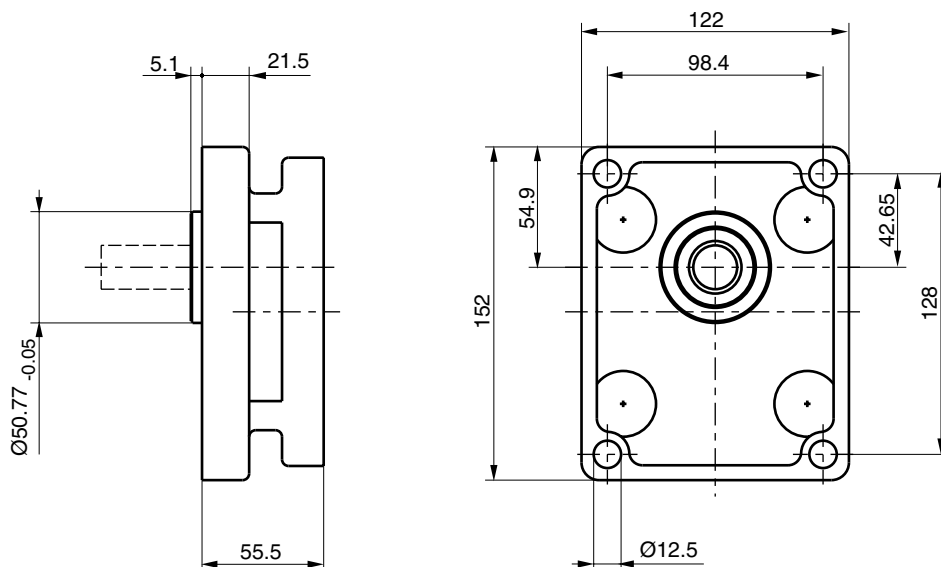
**Code A3**



**Code A4**

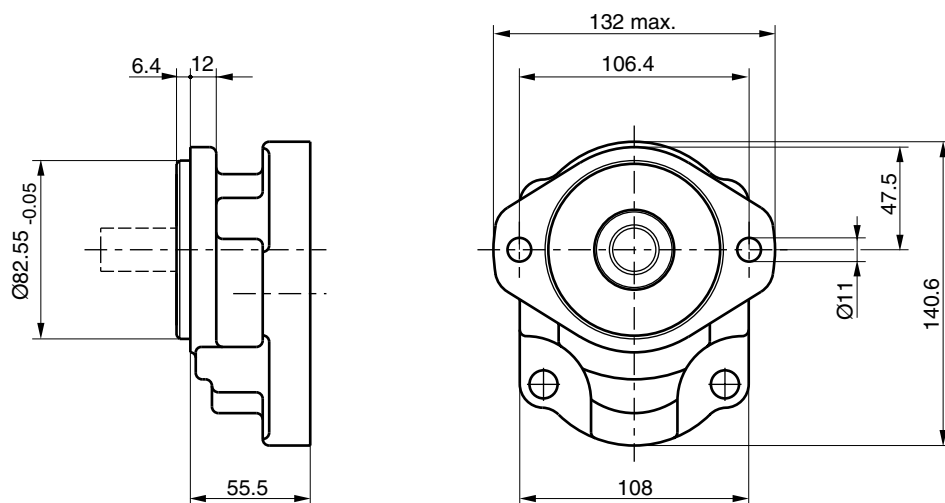


**Code D7**

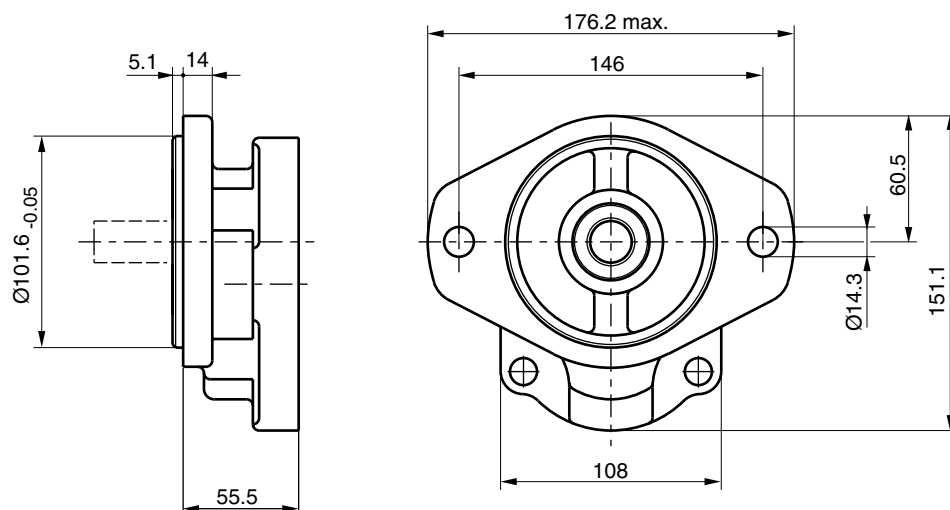


**PGP/PGM 620 / 625 Mounting Flange**

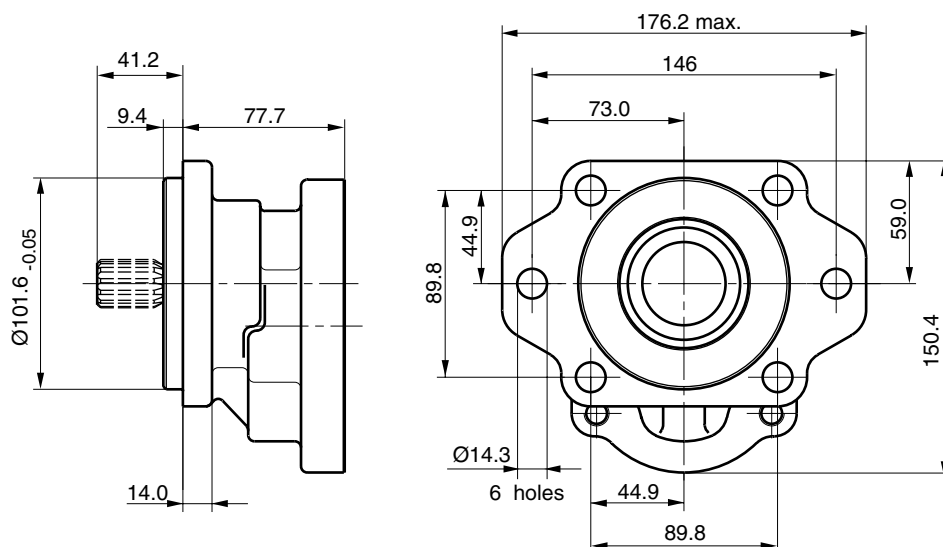
**Code H2**



**Code H3**



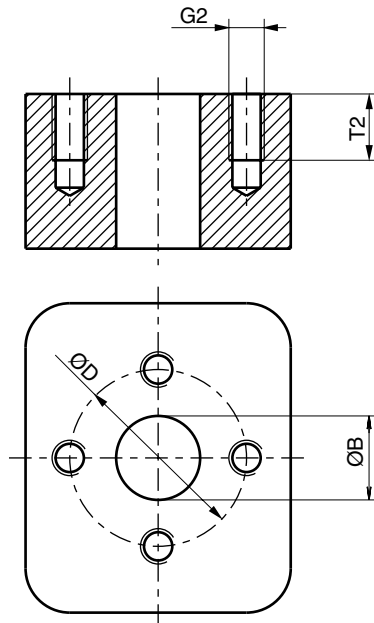
**Code L3**



**PGP/PGM 620 / 625 Porting**

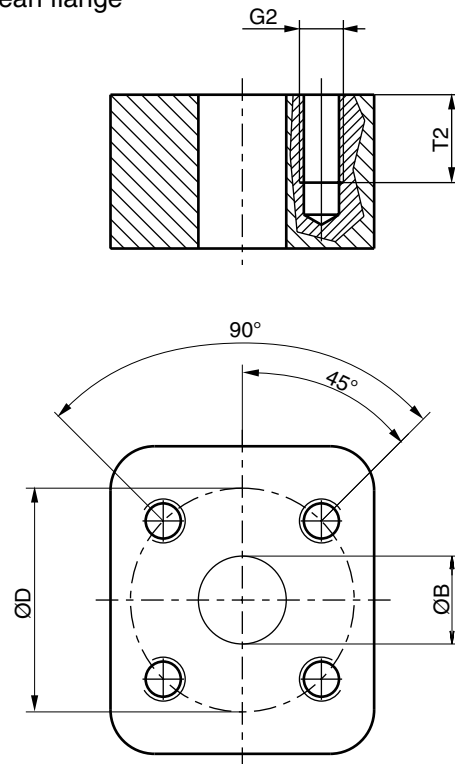
**Code L**

4-Bolt flange



**Code J**

European flange



**PGP/PGM / 625 620**

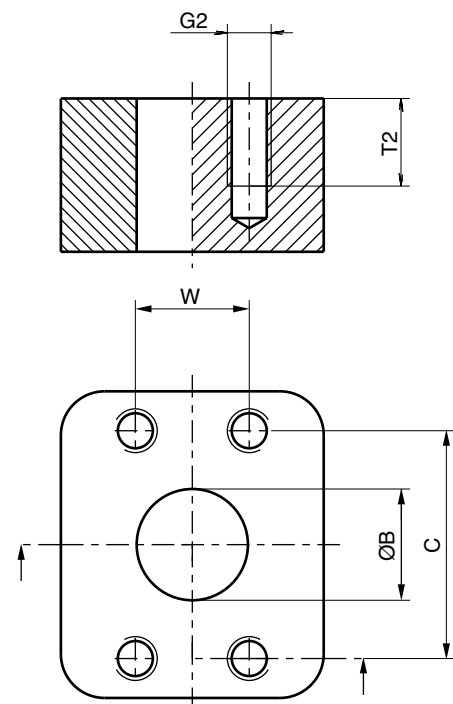
| Code | G2          | ØB         | ØD   | C     | W     | T2   |
|------|-------------|------------|------|-------|-------|------|
|      | Thread      | Dimensions |      |       |       |      |
| J5   | M6          | 15.0       | 35.0 |       |       | 12.5 |
| J7   | M6          | 20.0       | 40.0 |       |       | 13.0 |
| J8   | M8          | 18.0       | 55.0 |       |       | 15.0 |
| J9   | M8          | 26.0       | 55.0 |       |       | 15.0 |
| L1   | M6          | 13.0       | 30.0 |       |       | 13.0 |
| L2   | M8          | 19.0       | 40.0 |       |       | 15.0 |
| L3   | M10         | 27.0       | 51.0 |       |       | 18.0 |
| S2   | 3/8-16 UNC  | 19.0       |      | 47.63 | 22.23 | 14.0 |
| S3   | 3/8-16 UNC  | 25.4       |      | 52.37 | 26.19 | 20.6 |
| S4   | 7/16-14 UNC | 31.8       |      | 58.72 | 30.17 | 20.6 |
| S5   | 1/2-13 UNC  | 38.1       |      | 69.82 | 35.71 | 20.6 |
| S6   | 1/2-13 UNC  | 50.8       |      | 77.77 | 42.88 | 20.6 |
| T2   | M10         | 19.0       |      | 47.63 | 22.23 | 20.6 |
| T3   | M10         | 25.4       |      | 52.37 | 26.19 | 21.4 |
| T4   | M10         | 31.8       |      | 58.72 | 30.17 | 20.6 |
| T5   | M12         | 38.1       |      | 69.82 | 35.71 | 20.6 |
| T6   | M12         | 50.8       |      | 77.77 | 42.88 | 20.6 |

**Code S**

SAE split flange

**Code T**

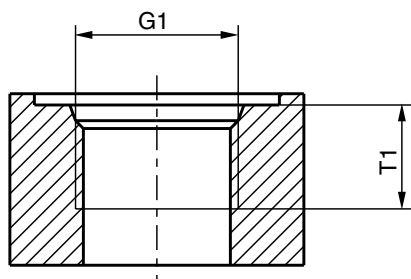
SAE split flange metric thread



**PGP/PGM 620 / 625 Porting**

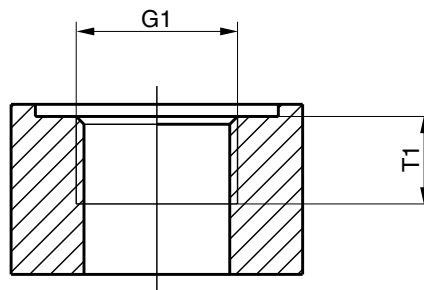
**Code D**

SAE straight thread



**Code E**

BSP - thread

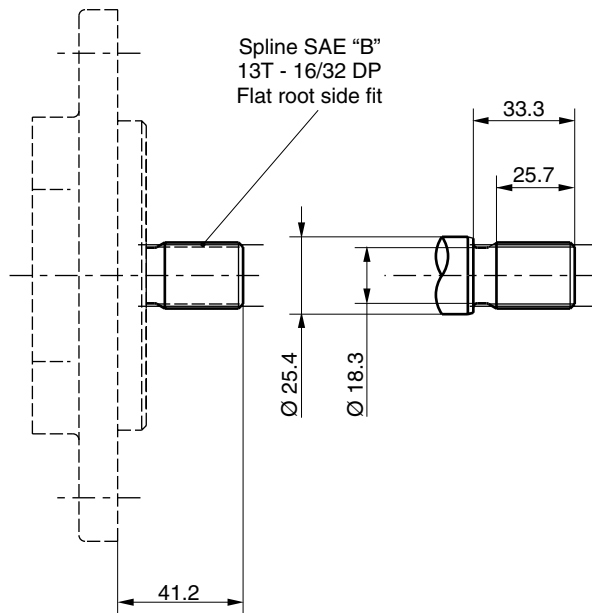


**PGP/PGM 620 / 625**

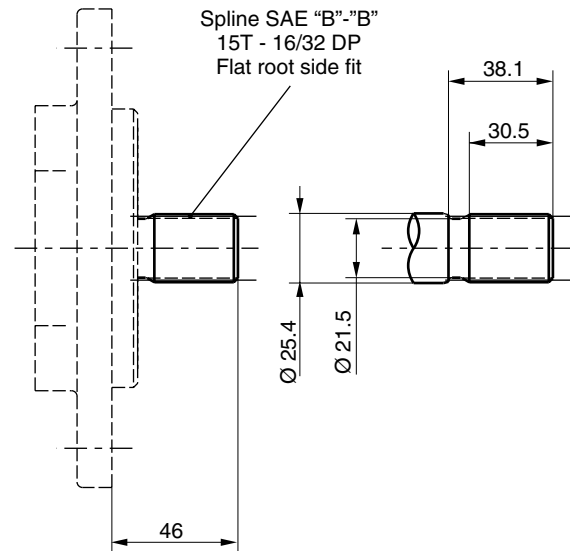
| Code | G1           | T1         |
|------|--------------|------------|
|      | Thread       | Dimensions |
| D3   | 3/4-16 UNF   | 14.3       |
| D4   | 7/8-14 UNF   | 16.7       |
| D5   | 1 1/16-12 UN | 19.0       |
| D6   | 1 5/16-12 UN | 19.0       |
| D7   | 1 5/8-12 UN  | 19.0       |
| D8   | 1 7/8-12 UN  | 19.0       |
| E3   | 1/2-14 BSP   | 14.0       |
| E4   | 5/8-14 BSP   | 16.3       |
| E5   | 3/4-16 BSP   | 16.0       |
| E6   | 1-11 BSP     | 18.0       |
| E7   | 1 1/4-11 BSP | 20.0       |
| E8   | 1 1/2-11 BSP | 22.0       |

**PGP/PGM 620 / 625 Drive Shaft**

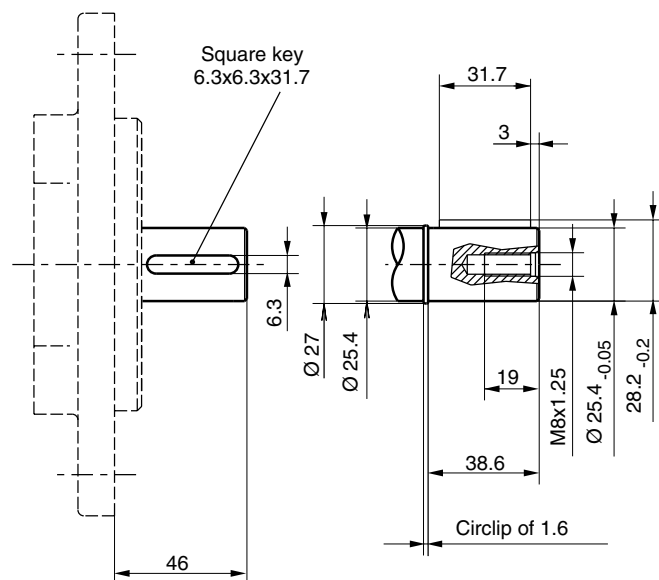
**Code D1**



**Code E1**

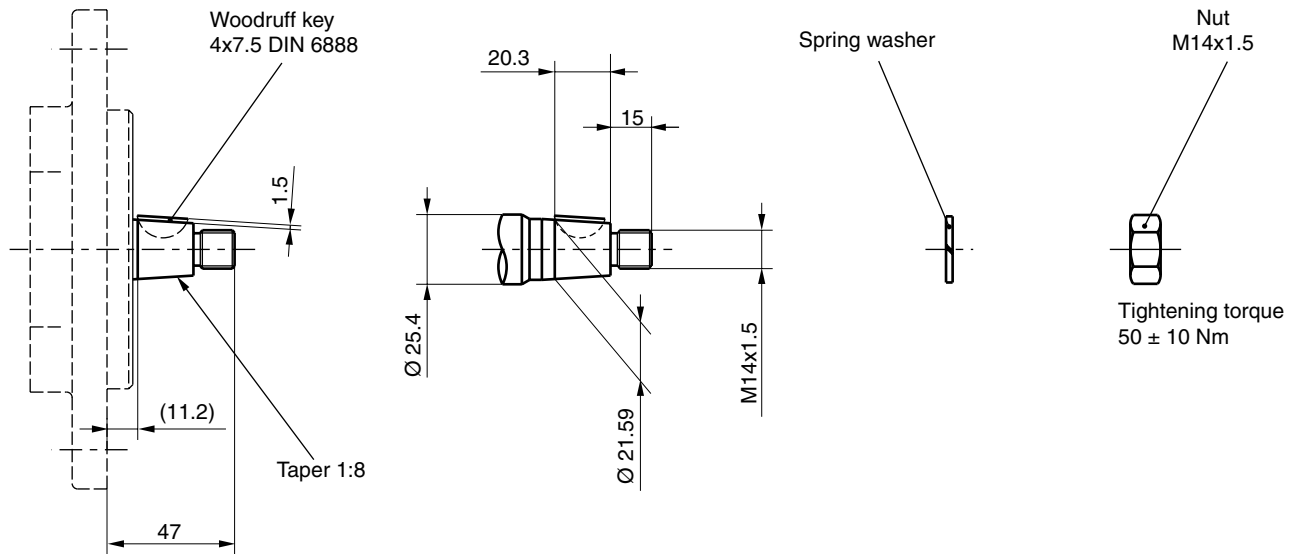


**Code M3**

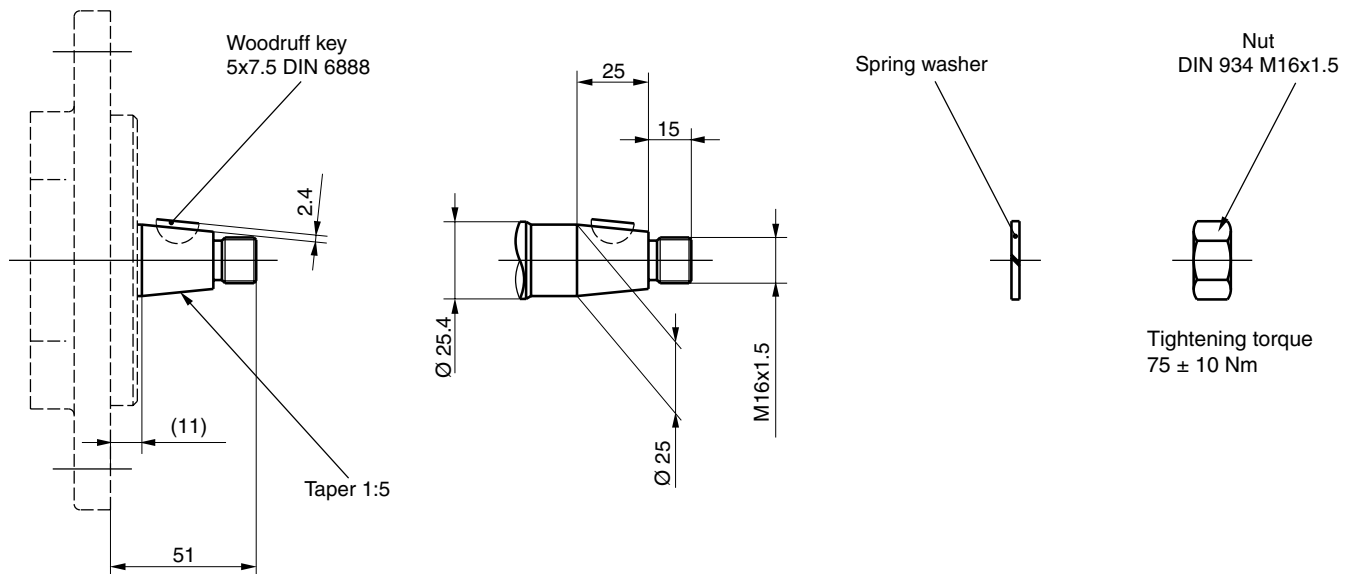


**PGP/PGM 620 / 625 Drive Shaft**

**Code T1**



**Code T2**



**PGP/PGM 620 / 625- Shaft Load Capacity**

| Code | Description                                 | Torque Rating<br>[Nm] |
|------|---------------------------------------------|-----------------------|
| D1   | 13T, 16/32 DP, 41.2L, SAE "B" spline        | 272                   |
| E1   | 15T, 16/32 DP, 46L, SAE "B-B" spline        | 460                   |
| E4   | 14T, 12/24 DP, 55.6L, SAE "C" splined       | (272)                 |
| M3   | Ø25.4, 6.3 KEY, M8, 46L, SAE "B-B" parallel | 325                   |
| T1   | Ø21.59, 11.2L, 4.0 KEY, M14x1.5 taper 1:8   | 218                   |
| T2   | Ø25.0, 12.0 L, 5.0 KEY, M16x1.5 taper 1:5   | 301                   |
|      | Multiple pump connection shaft              | 228                   |

$$\text{Torque [Nm]} = \frac{\text{Displacement [cm}^3\text{/rev]} \times \text{Pressure [bar]}}{57.2}$$