

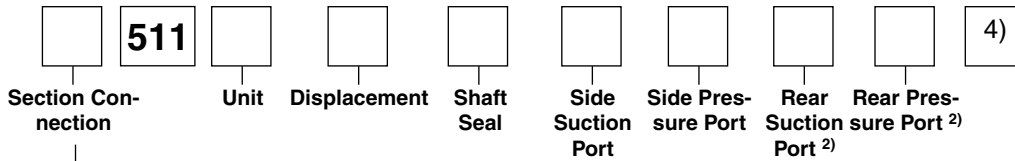
*) Others on request

*) To be used with outboard bearing 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.

1) Only coded for the last section.





Code	Section Connection
S	Separate inlets
C	Common inlets

Code	Flange
D3	71.4x96.0 - Ø36.47 rectangular
D4	72.0x100.0 - Ø80 rectangular
H2	106.4 - Ø82.55 SAE "A" 2 bolt flange
H3	146.1 - Ø101.6 SAE "B" 2 bolt flange
Q1 ²⁾	60.0x60.0 - Ø52.0 w/o seal ,O' thru bolt flange
Q2	60.0x60.0 - Ø50.0 w. seal ,O' thru bolt flange
Q3 ²⁾	60.0x60.0 - Ø52.0 w/o seal ,O' thru bolt flange
Q4	60.0x60.0 - Ø50.0 w. seal ,O', thru bolt flange
F4	72.0x100.0 - Ø80.0 rect., w. OBB and cont. drive shaft

2) Non standard, on request only

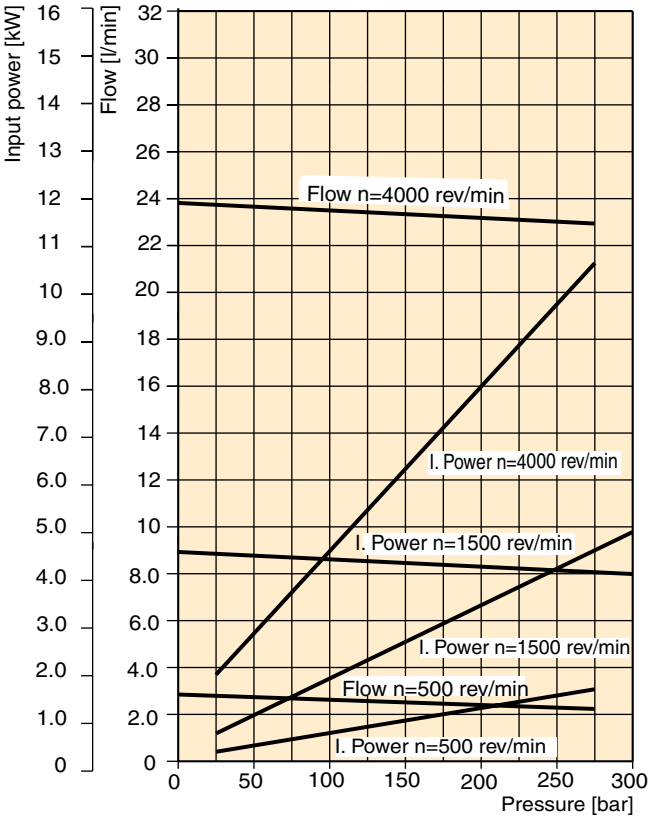
Code	Port Options	Code	Port Options
B1	No ports	L1*	13 mm-Ø30 mm-M6 diamond
D2 ²⁾	9/16 - 18 UNF thread	L2*	19 mm-Ø40 mm-M8 diamond
D3 ²⁾	3/4 - 16 UNF thread	N1 ²⁾ *	1/2"-5/16-18UNC SAE Split Flange
D4 ²⁾	7/8 - 14 UNF thread	N2 ²⁾ *	3/4"-3/8-16UNC SAE Split Flange
D5 ²⁾	1 1/16 - 12 UN thread	N3 ²⁾ *	1"-3/8-16UNC SAE Split Flange
D6 ²⁾ *	1 5/16 - 12 UN thread	N4 ²⁾ *	1 1/4"-7/16-14UNC SAE Split Flange
D7 ²⁾ *	1 5/8 - 12 UN thread	P1*	12.7 mm - M8 Metric Split Flange
E2	3/8 - 19 BSP thread	P2*	19.0 mm - M10 Metric Split Flange
E3	1/2 - 12 BSP thread	P3*	25.4 mm - M10 Metric Split Flange
E4*	5/8 - 14 BSP thread	P4*	31.8 mm - M10 Metric Split Flange
E5*	3/4 - 14 BSP thread		
E6*	1 - 11 BSP thread		
E7*	1 1/4 - 11 BSP thread		
G1 ²⁾	M14x1.5 thread		
G3 ²⁾	M18x1.5 thread		
G4 ²⁾	M22x1.5 thread		
G5 ²⁾ *	M26x1.5 thread		
G7 ²⁾ *	M30x1.5 thread		
J3 ²⁾ *	8mm - Ø30mm - M6 square		
J4 ²⁾ *	12mm - Ø30mm - M6 square		
J5*	15mm - Ø40mm - M6 square		
J6 ²⁾ *	15mm - Ø40mm - M8 square		
J7*	20mm - Ø40mm - M6 square		
J8*	18mm - Ø55mm - M8 square		
J9*	26mm - Ø55mm - M8 square		

2) Non standard, on request only

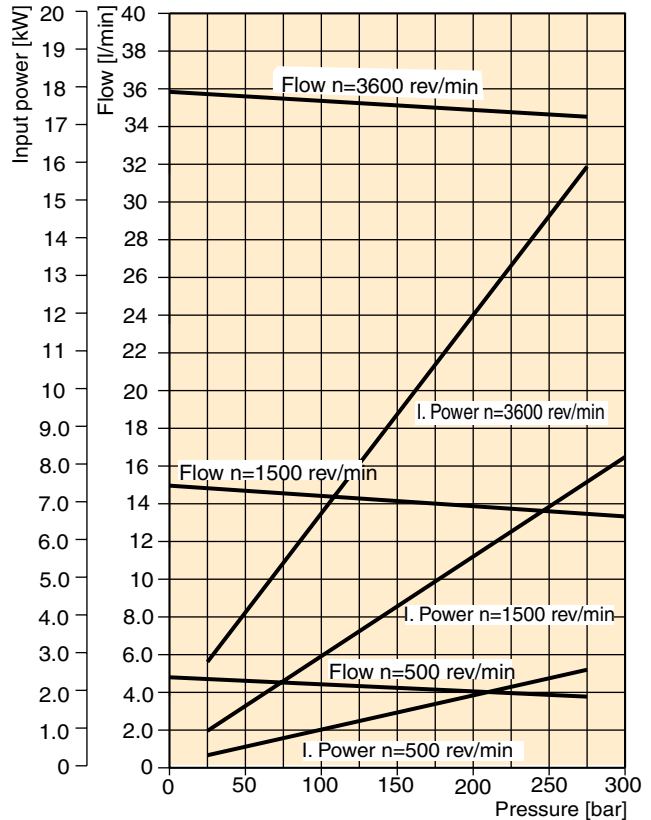
*) Not usable for rear ports

4) For further "B" triple unit repeat displacement, shaft seal between sections, side suction port, side pressure port, rear suction port, rear pressure port.

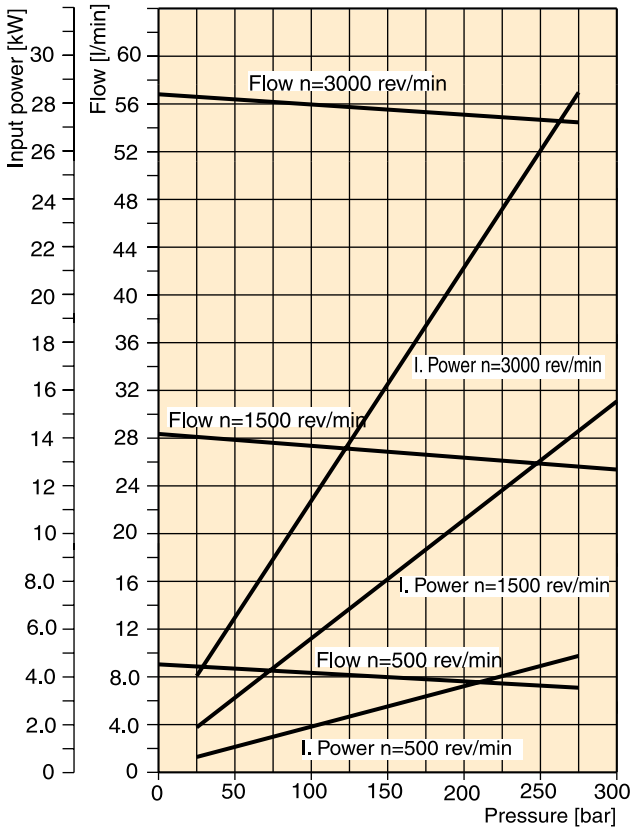
PGP 511 - 6.0 CC



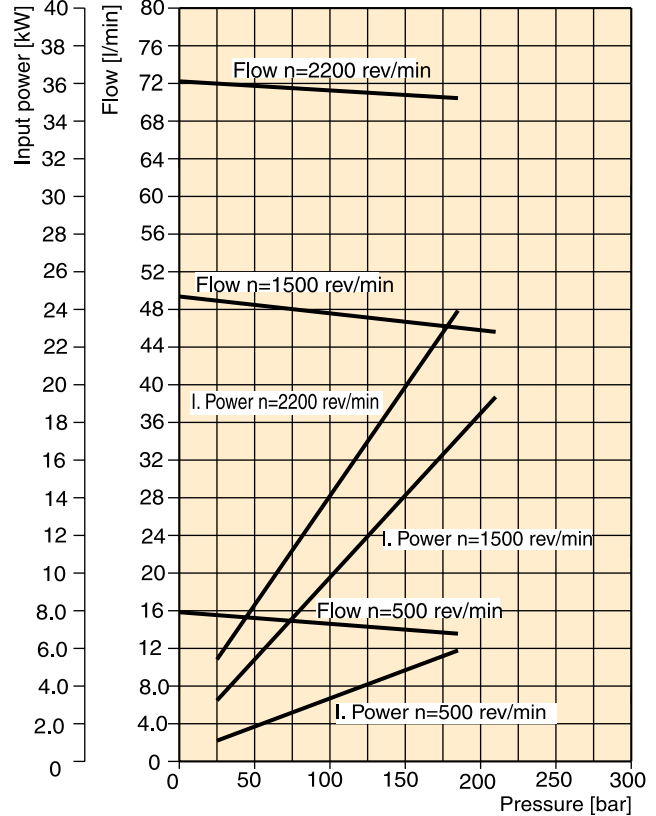
PGP 511 - 10.0 CC



PGP 511 - 19.0 CC



PGP 511 - 33.0 CC



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

PI PGP-PGM UK.PMD RH

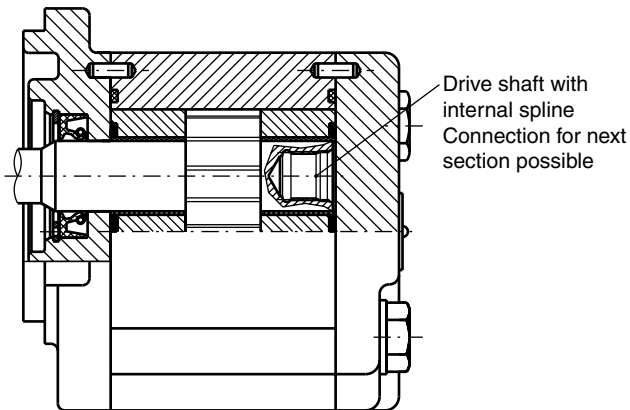


PGP 511 Specification - Standard Displacements

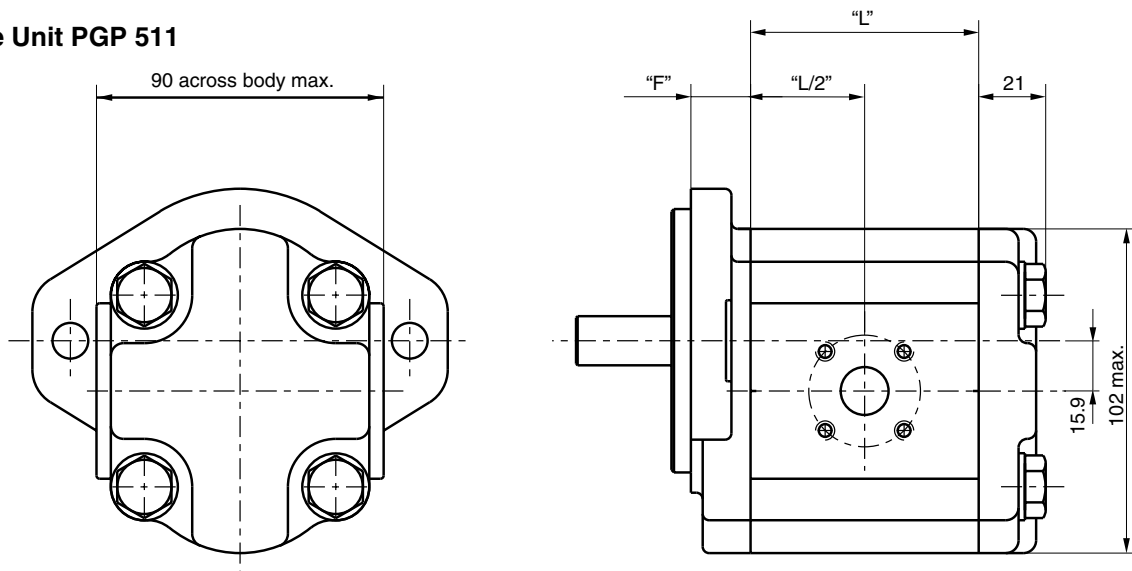
Pump Displacement	Code	0060	0080	0100	0110	0140	0160	0190	0230	0270	033
	cm ³ /rev	6.0	8.0	10.0	11.0	14.0	16.0	19.0	23.0	27.0	33.0
Max. Continuous Pressure	bar	250	250	250	250	250	250	250	225	190	155
Minimum Speed @ 0 Inlet & Max. outlet pressure	rpm	500	500	500	500	500	500	500	500	500	500
Maximum Speed @ 0 Inlet & Max. outlet pressure	rpm	3500	3500	3500	3500	3500	3500	3250	2750	2350	2000
Pump Input Power @ Max. Pressure and 1500 rpm	kW	4.5	6.0	7.5	8.3	10.5	12.0	14.3	14.7	14.9	17.3
Dimension "L"	mm	50.1	53.3	56.5	58.0	62.8	65.9	70.6	76.9	83.2	92.6
Approximate Weight ¹⁾	kg	3.40	3.47	3.55	3.57	3.71	3.79	3.91	4.06	4.21	4.45

¹⁾ Single pump with Flange Q1 and Port end cover B1

Distributor Unit PGP 511



Single Unit PGP 511



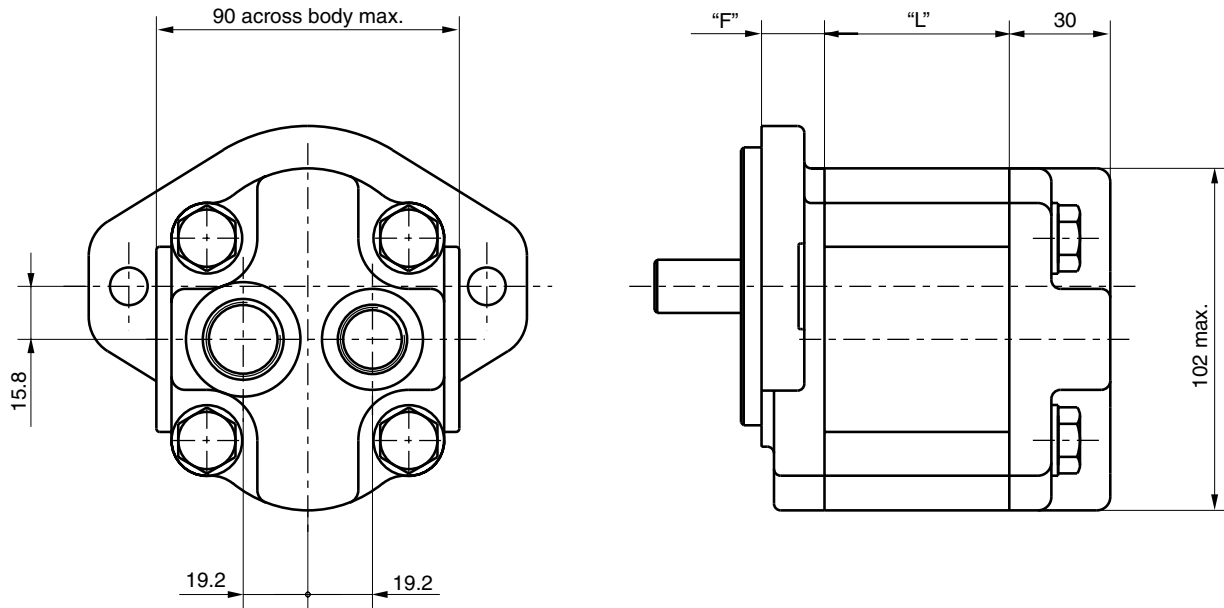
Dimension "L" see table above

Dimension "F" see flanges on pages 31 to 34

Dimension Shafts see pages 38 to 40

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Single Unit PGP 511 with rear ports

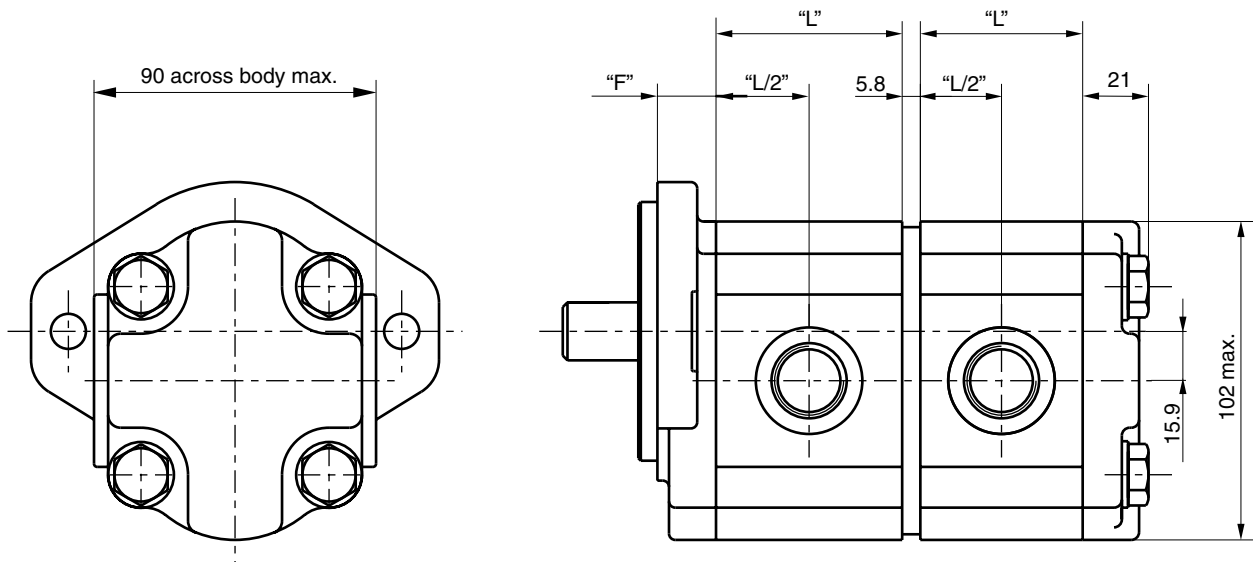


Dimension "L" see table on page 29

Dimension "F" see flanges on pages 31 to 34

Dimension Shafts see pages 38 to 40

Tandem Unit PGP 511



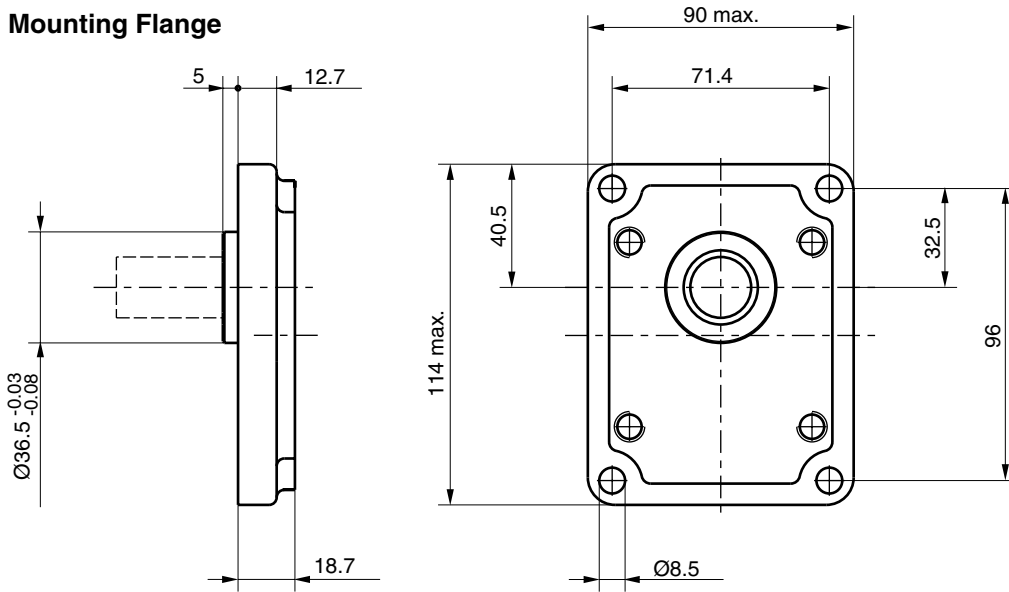
Dimension "L" see table on page 29

Dimension "F" see flanges on pages 31 to 34

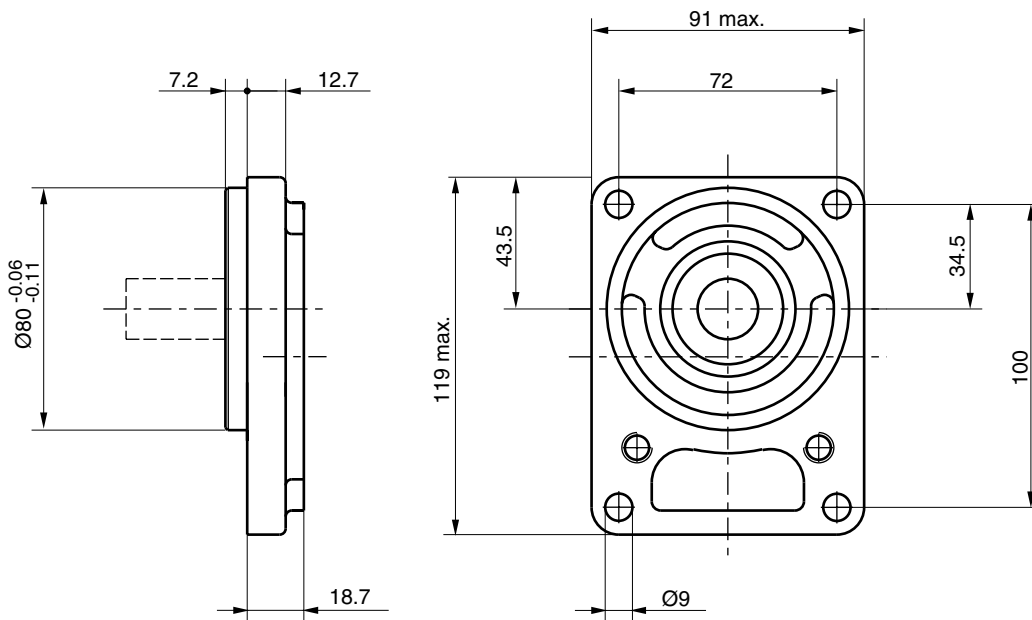
Dimension Shafts see pages 38 to 40

PGP 511 Mounting Flange

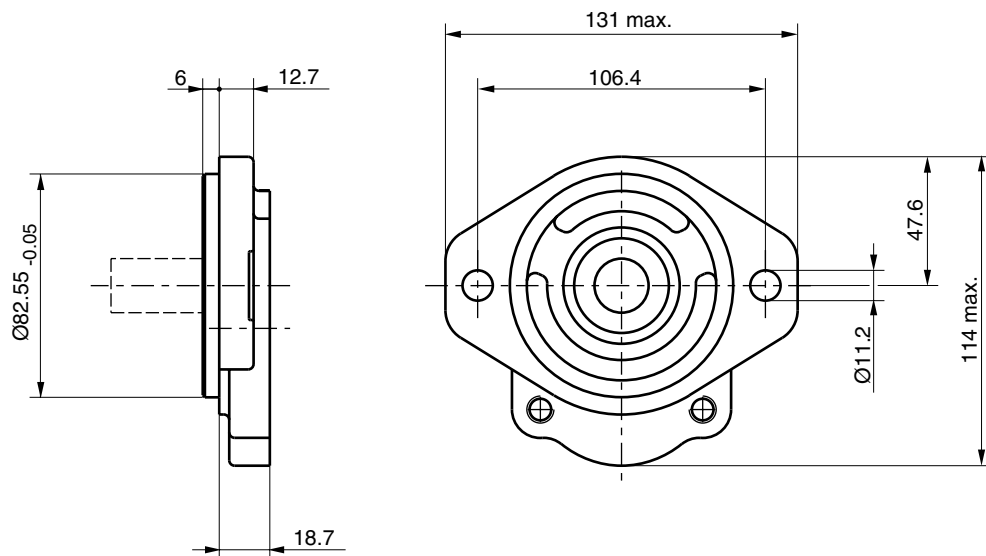
Code D3



Code D4



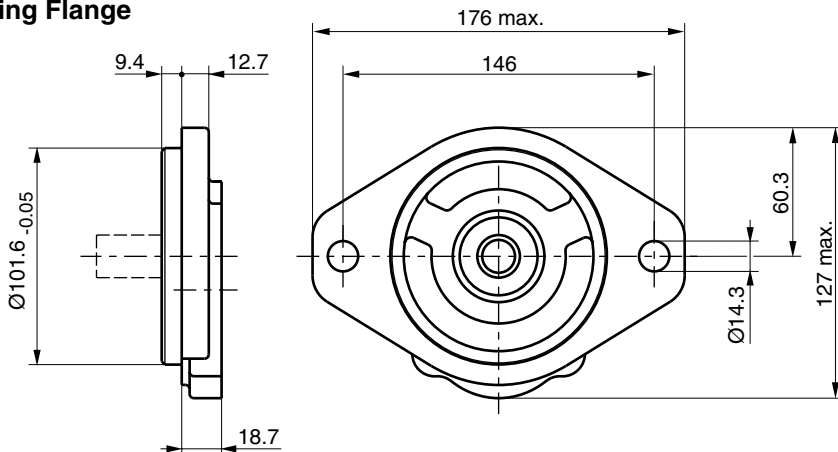
Code H2



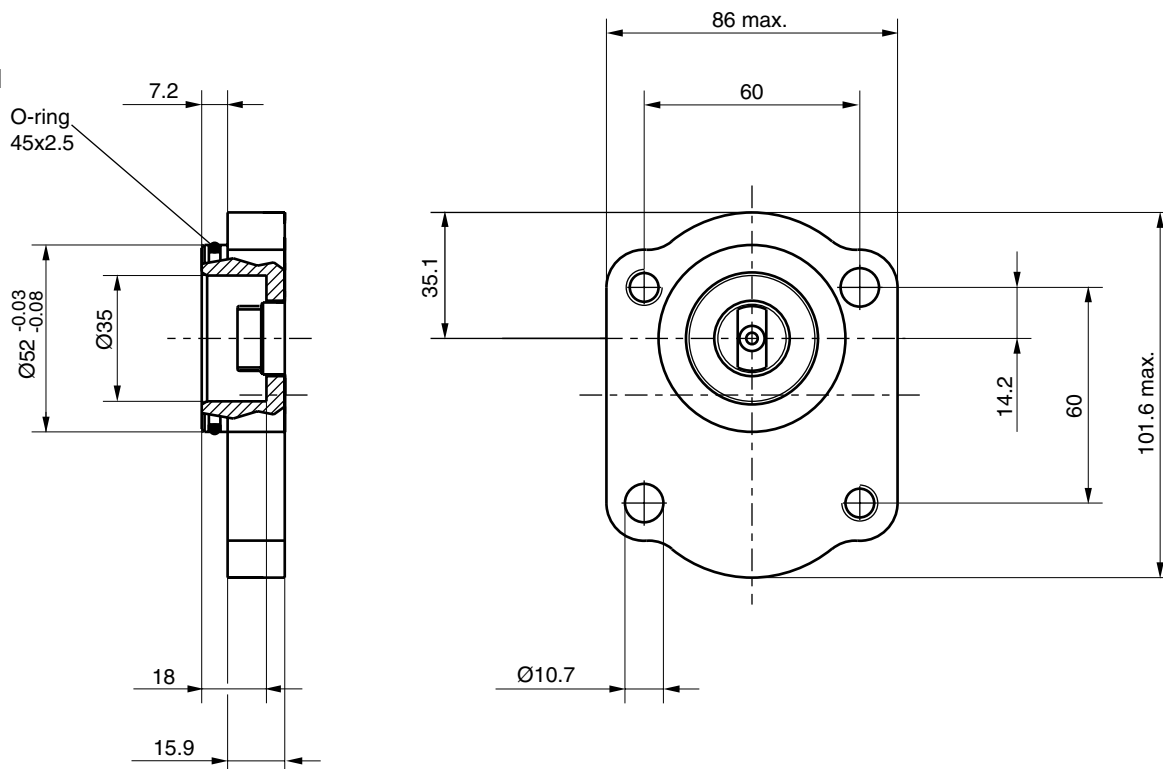
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PGP 511 Mounting Flange

Code H3

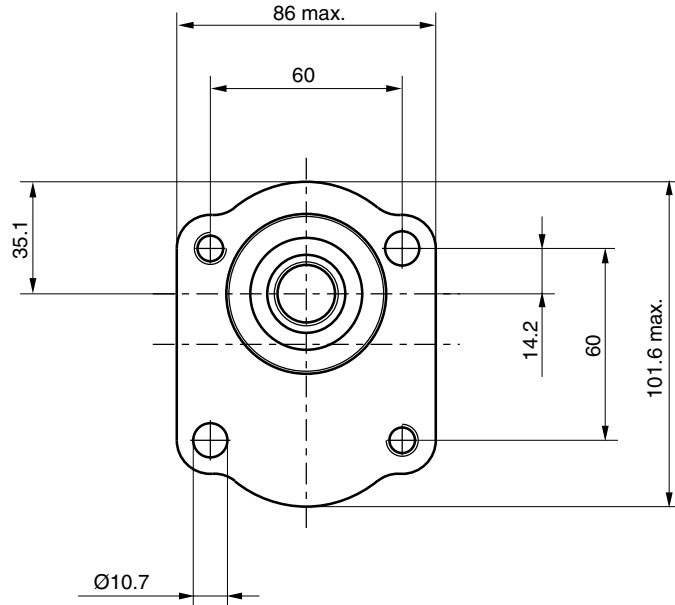
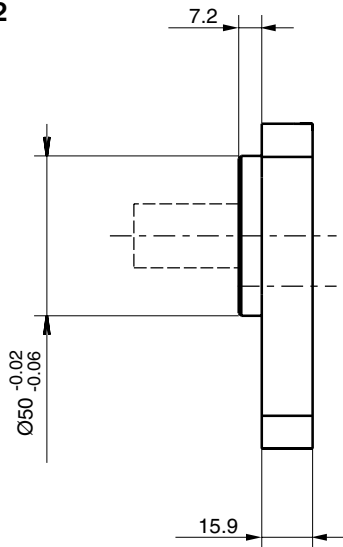


Code Q1

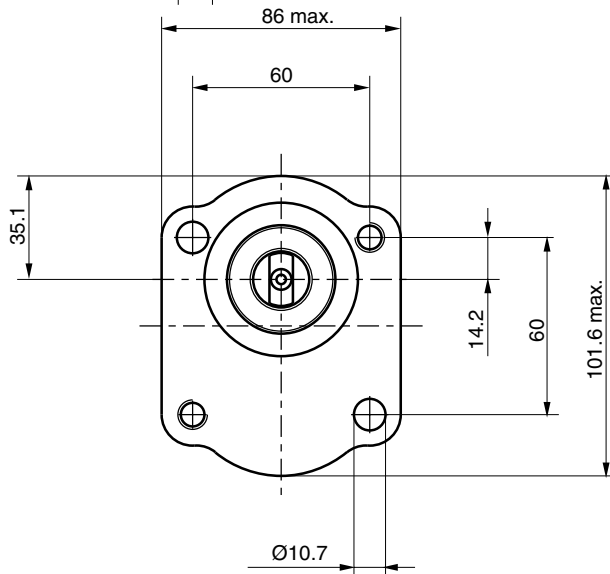
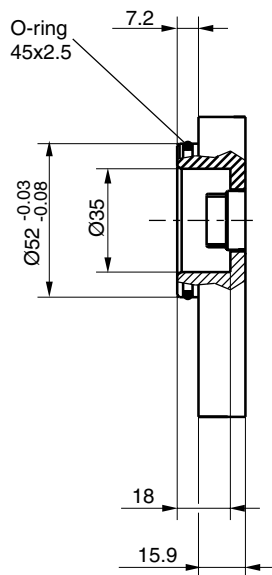


PGP 511 Mounting Flange

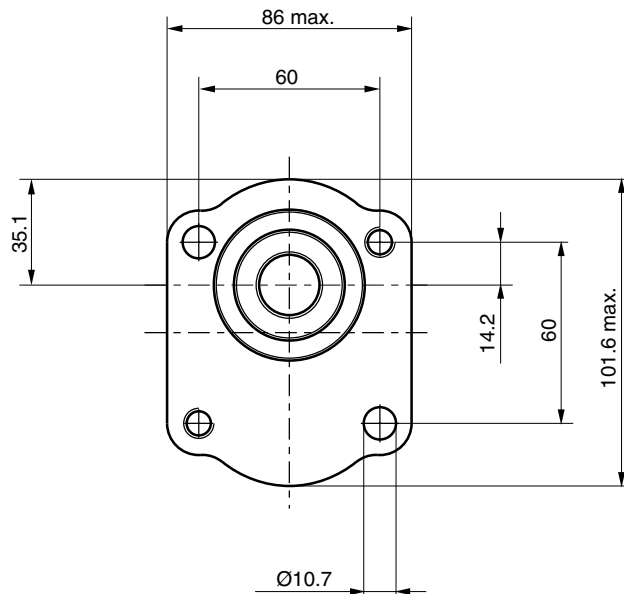
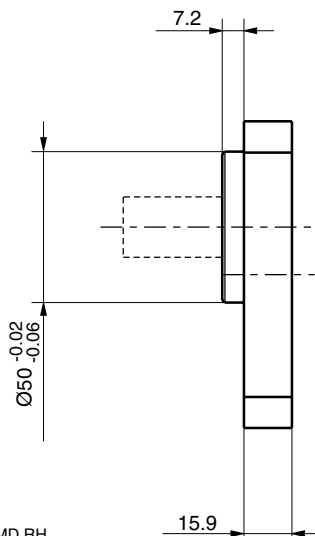
Code Q2



Code Q3



Code Q4

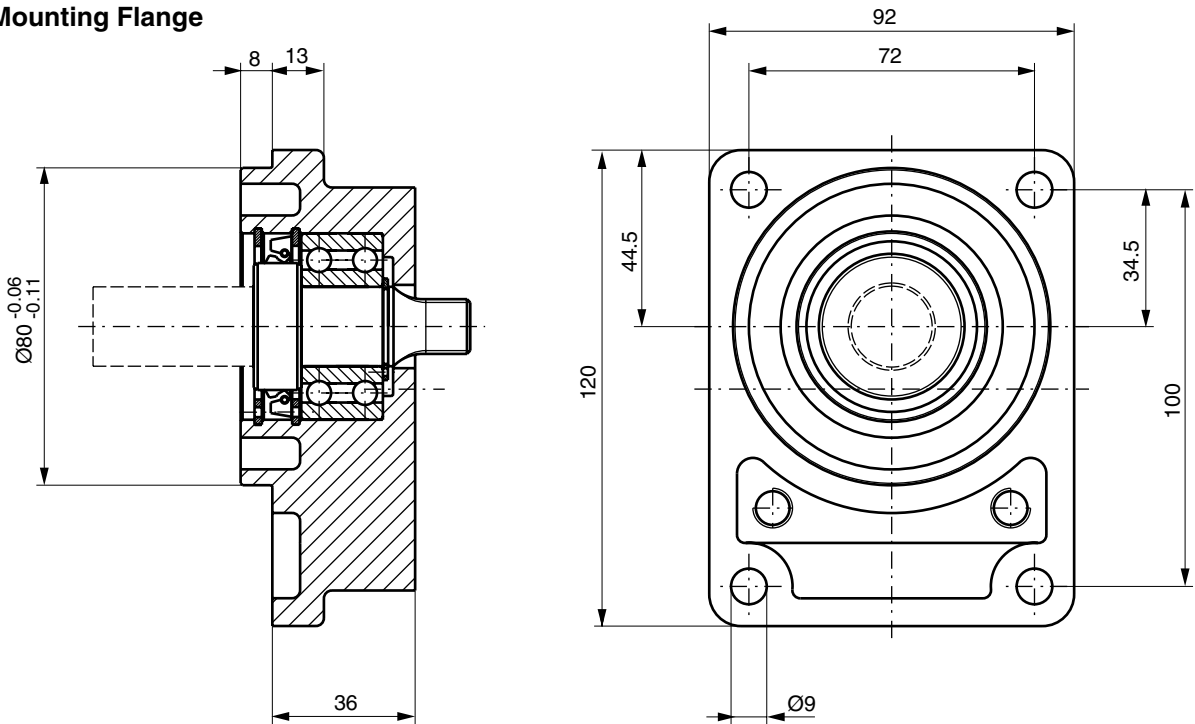


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PGP 511 Mounting Flange

Code F4



Outboard Bearing PGP 511

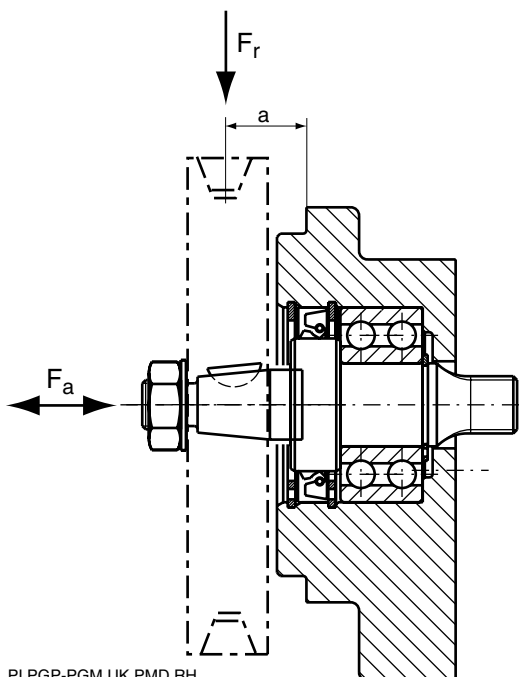
Bearing loads for code F4

Units subject to axial or radial loads, for instance drive with V-belts or gear wheels, must be specified with an outboard bearing.

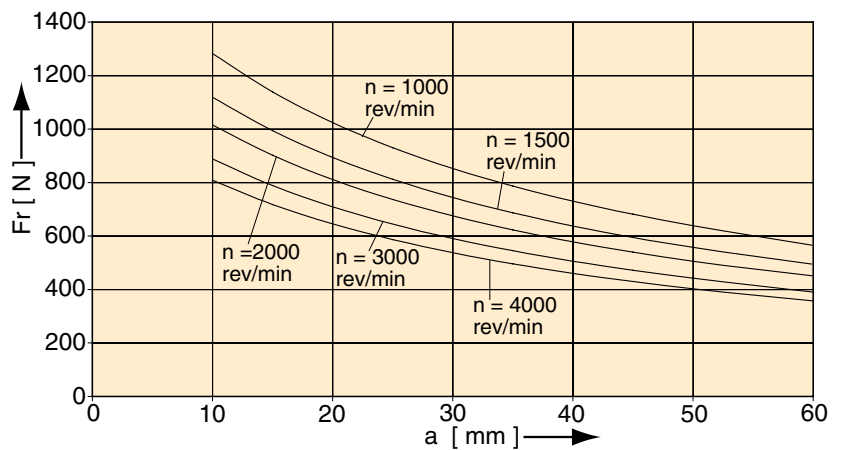
The diagrams below show the maximum axial or radial loads that can be tolerated referred to a bearing life of $L_H = 1000$ h.

F_r is reduced by 0,7 F_a when axial loading is applied.

Outboard Bearing Code F4

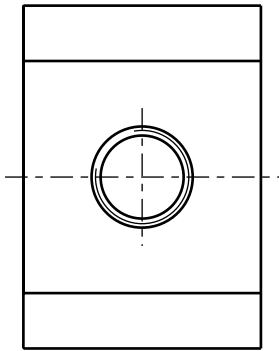


Shaft load for outboard bearings PGP 511

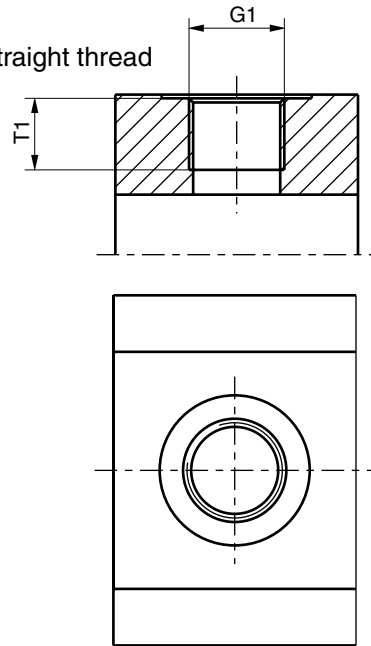


PI PGP-PGM UK.PMD RH

PGP 511 Porting

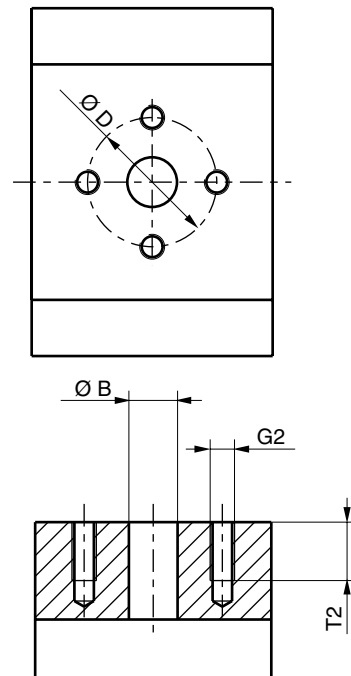


Code E
 British Standard Pipe
Code G
 Metric straight thread



Code D
 SAE straight thread

Code L
 4-Bolt flange



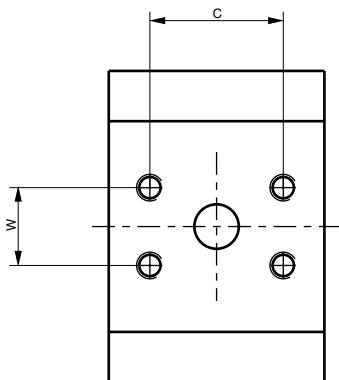
PGP 511

Code	G1	T1
	Thread	Dimensions
D2	9/16-18 UNF	12.7
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
E2	3/8-19 BSP	12.0
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
G1	M 14x1.5	12.0
G3	M 18x1.5	12.0
G4	M 22x1.5	14.0
G5	M 26x1.5	16.0
G7	M 30x1.5	12.0

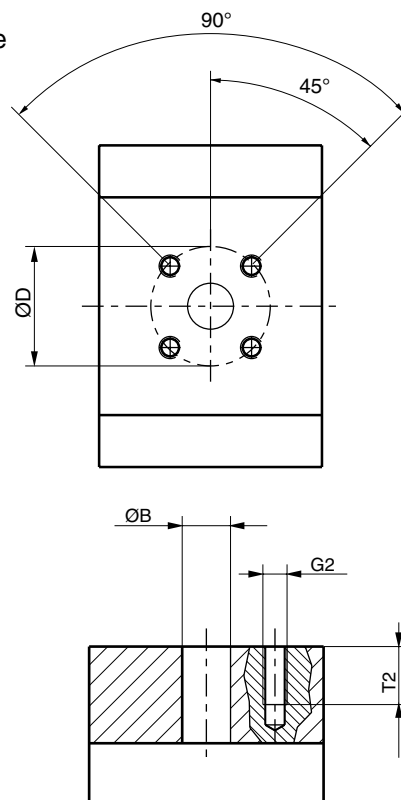
PGP 511 Porting

Code N
 SAE Split flange

Code P
 SAE Split flange
 metric thread



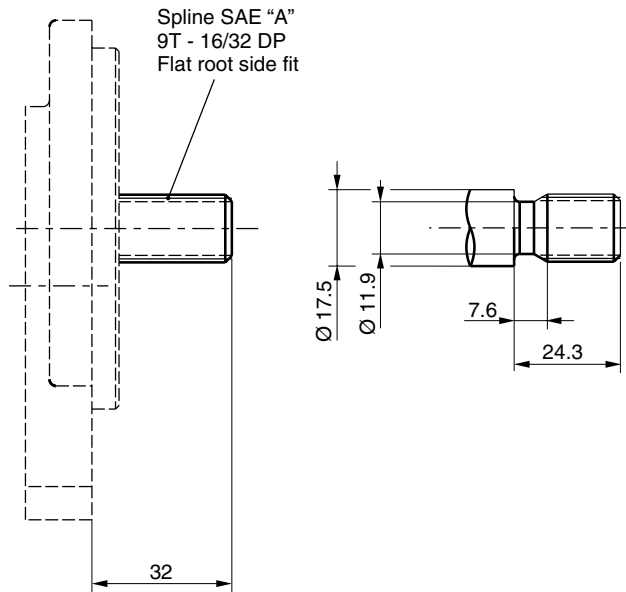
Code J
 European flange



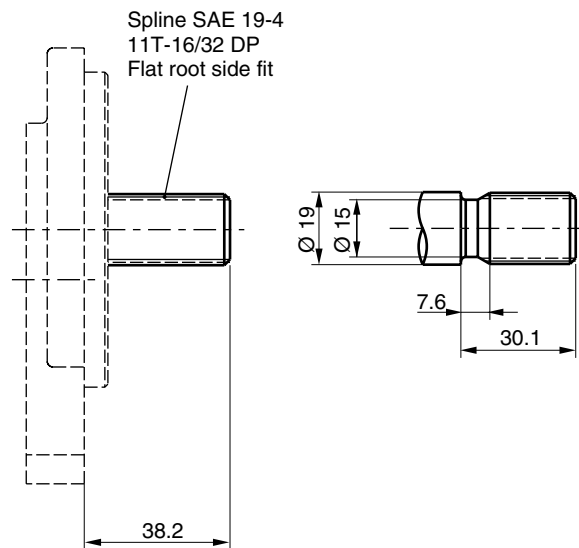
PGP 511

Code	G2	Ø B	Ø D	S	C	W	T2
	Thread						
J3	M6	8.0	30.0				12.0
J4	M6	12.0	30.0				12.0
J5	M6	15.0	35.0				12.5
J6	M8	15.0	40.0				15.0
J7	M6	20.0	40.0				13.0
J8	M8	18.0	55.0				15.0
J9	M8	26.0	55.0				15.0
K1	5/16-18 UNF	19.0		30.48			15.0
K2	M8	19.0		30.48			15.0
K3	M6	19.0		32.00			13.0
K4	M6	16.0		25.15			13.0
L1	M6	13.0	30.0				13.0
L2	M8	19.0	40.0				15.0
N1	5/16-18 UNC	12.7			38.10	17.48	15.0
N2	3/8-16 UNC	19.0			47.63	22.23	14.0
N3	3/8-16 UNC	25.4			52.37	26.19	20.6
N4	7/16-14 UNC	31.8			58.72	30.17	20.6
P1	M8	12.7			38.10	17.48	15.0
P2	M10	19.0			47.63	22.23	20.6
P3	M10	25.4			52.37	26.19	21.4
P4	M10	31.8			58.72	30.17	20.6

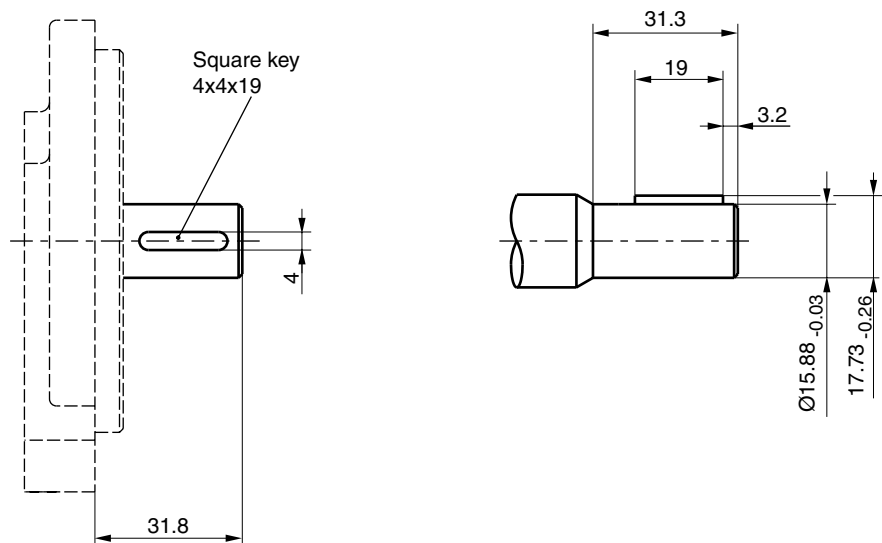
**PGP 511 Drive Shaft
 Code A1**



Code C1

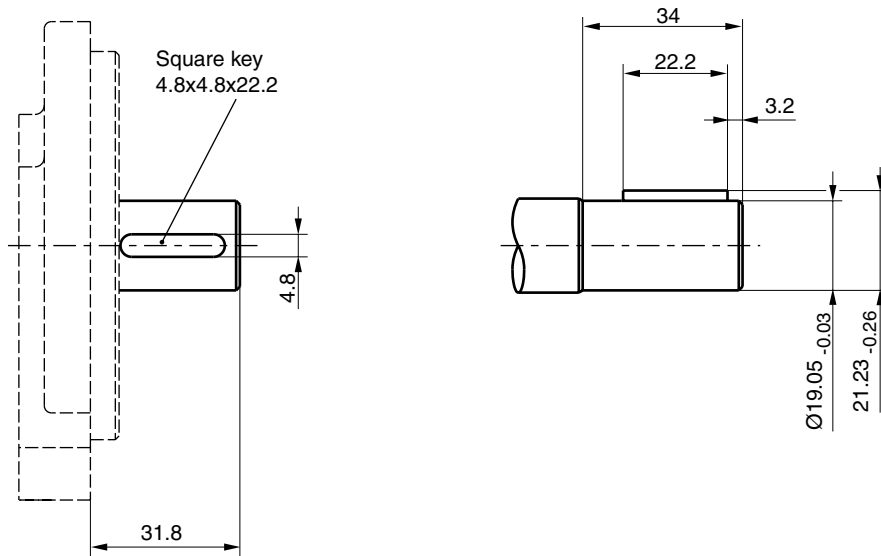


Code K1

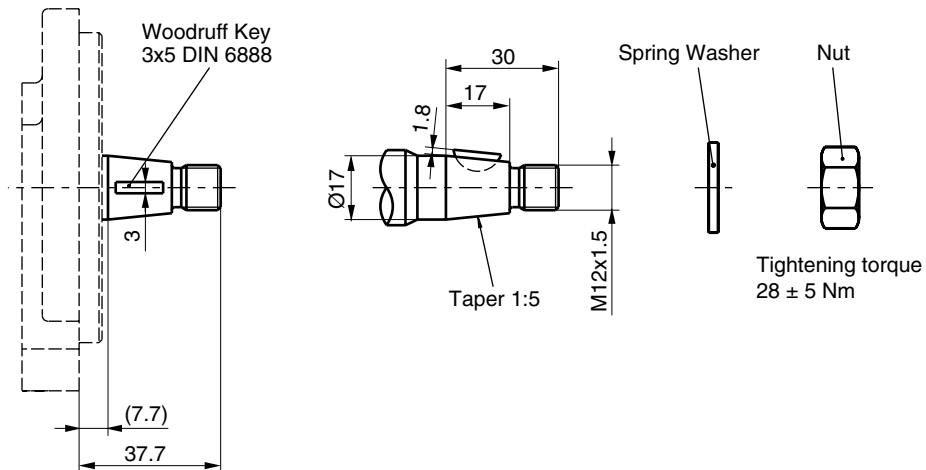


PGP 511 Drive Shaft

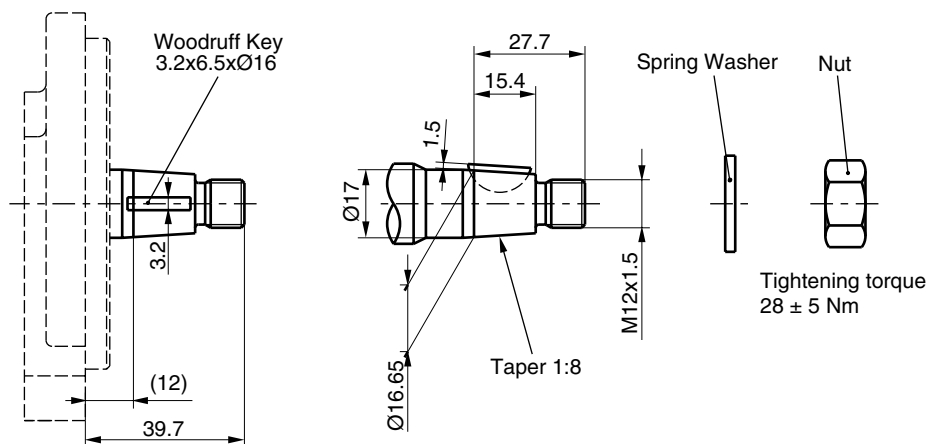
Code L6



Code S1

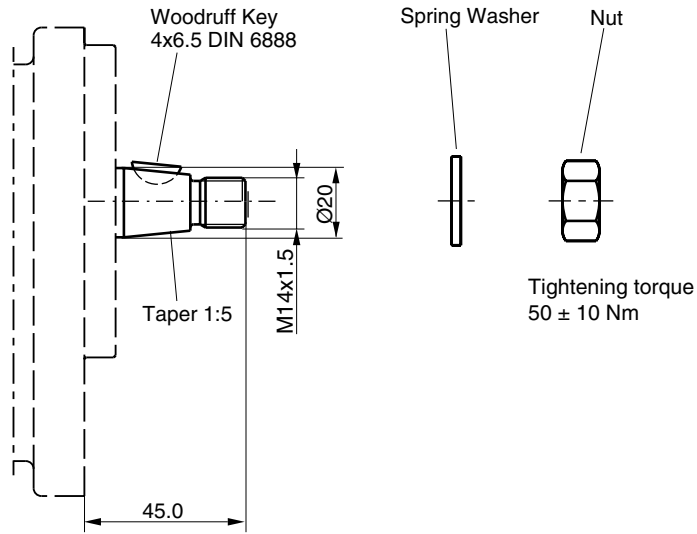


Code S2

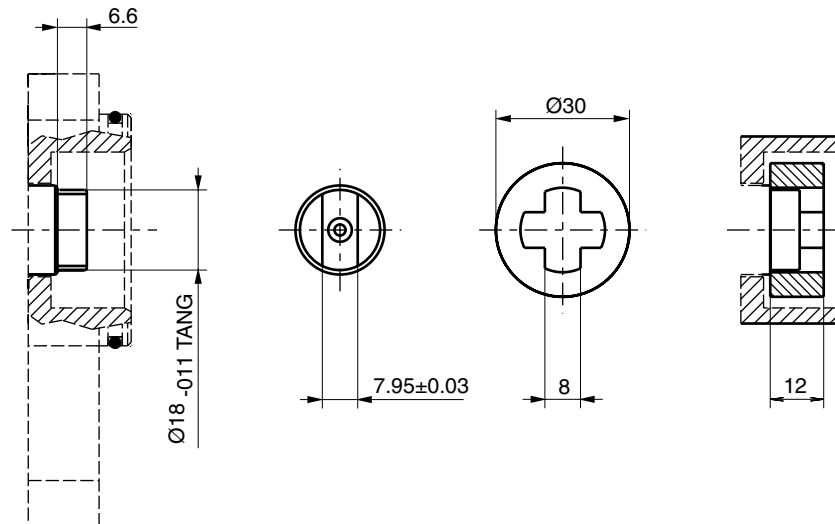


PGP 511 Drive Shaft

Code S8



Code V5



PGP 511 - Shaft Load Capacity

Code	Description	Torque Rating [Nm]
A1	9T, 16/32DP, 32L, SAE“A“ spline	86
C1	11T, 16/32DP, 38.2L, SAE 19-4 spline	184
K1	Ø15.88, 4.0 KEY, no thread, 32L, SAE“A“ parallel	75
L6	Ø19.05, 4.8 KEY, no thread, 32L, SAE 19-1 parallel	145
S1	Ø17.0, 7.7L, 3.0 KEY, M12x1.5 taper 1:5	193
S2	Ø16.65, 12.0L, 3.2 KEY, M12x1.5 taper 1:8	198
S8	Ø20, 9.4L, 4.0 KEY, M14x1.5 taper 1:5	110
V5	8x6.5 short shaft tang drive	60
	Multiple pump connection shaft	110

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