



Gear Pumps / Motors

Series RPGP/RPGM 620/640
Fixed Displacement Pumps,
Cast-Iron and Aluminium Designs

RUICHEN HYDRAULIC MACHINERY MANUFACTURING Co., LTD

<https://www.rchchdraulics.com/>

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For many years, RCHC has been supplying gear pumps and motors to the global mobile and industrial markets, particularly for applications in material handling, agricultural machinery, and construction equipment. RCHC's hydraulic gear pumps are perfect replacements for various Parker pump models, offering lower prices and shorter lead times. Furthermore, all products comply with SAE, DIN, European, and other standards, with special options available as standard configurations.

**Features**

- Unique interlocking body design
- 12 tooth gears, optimize balance plates
- Tandem, triple and cross-frame pumps available
- Common inlets available for tandem and triple pumps
- Continuous operating pressures up to 310 bar
- Production run-in available to suite OEM application conditions and to provide optimized volumetric efficiencies
- Pressure balanced design for high efficiency
- Reduced system noise levels compared to earlier models
- High power through-drive capability
- Wide range of integral valves for power steering, power brakes, fan drivers and implement hydraulics
- Load sense and solenoid operated unloading valves

Characteristics

Pump type	Heavy-duty, cast iron, external gear.
Mounting	SAE, rectangular, thru-bolt standard specials on request.
Ports	SAE and metric split flanges and others
Shaft style	SAE splined, keyed, tapered, cylindrical tang drive, specials on request
Speed	500 - 3500 rpm, see Technical Data
Theor. displacement	See Technical Data
Drive	Drive direct with flexible coupling is recommended.
Axial / Radial load	Units subject to axial or radial loads must be specified with an outboard bearing.
Inlet pressure	Operating range 0.8 to 2 bar abs. Min. inlet pressure 0.5 bar abs. Short time without load. Consultation is recommended.
Outlet pressure	See Technical Data
Flow velocity	See Nomograph for Pipe Velocity
Hydraulic fluids	Hydraulic oil HLP, DIN 51524-2
Fluid temperature	Range of operating temperature -15 to +80 °C. Max. permissible operating pressure dependent on fluid temperature. Temperature for cold start -20 to -15 °C at speed ≤ 1500 rpm. Max. permissible operating pressure dependent on fluid temperature.

Fluid viscosity	Range of operating viscosity 8 to 1000 mm ² /s. Max. permissible operating pressure dependent on viscosity. Viscosity range for cold start 1000 to 2000 mm ² /s at operating pressure p ≤ 10 bar and speed n ≤ 1500 rpm.
Range of ambient temperature	-40 °C to +70 °C
Filtration	According to ISO 4406 Cl. 19/17/13
Direction of rotation (looking at the drive shaft)	Clockwise, counter-clockwise or double. Attention! Drive pump only in indicated direction of rotation.
Multiple pump assemblies	• Available in two or three section configuration. • Max. shaft load must be conform to the limitations shown in the shaft loading rating table in this catalogue. • Max. load is determined by adding the torque values for each pumping section that will be simultaneously loaded.
Separate or common inlet capability	Separate inlet configuration: • Each gear housing has individual inlet and outlet ports. Common inlet configuration: • Two gear sets share a common inlet.

Heavy-duty cast-iron Pumps and Motors Series RPGP, RPGM 620

Ordering code

PG																																																																																																																						
Gear Design	Type		Unit	Displacement	Rotation	Shaft	Flange	Shaft Seal	Side Suction Port	Side Pressure Port	Rear Suction Port ¹⁾	Rear Pressure Port ¹⁾																																																																																																										
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⁴⁾ (via drive adaptor)
⁵⁾ 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.

¹⁾ Only coded for the last section.

²⁾ Only for motors

Ordering code

Heavy-duty cast-iron Pumps and Motors SeriesRPGP, RPGM 620

												3)
Motor Drain Option ²⁾	Drain Posi- tion ²⁾	Section Con- nection		Unit	Displacement	Shaft Seal	Side Suction Port	Side Pres- sure Port	Rear Suction Port ¹⁾	Rear Pres- sure Port ¹⁾		

Design	
Pump and Motor	620
Pump	625

Code	Section Connection
S	Separate inlets
C	Common inlets

Code	Drain Position
2 ⁶⁾	Drain on bottom
3 ⁶⁾	Drain on top
4	Rear drain

⁶⁾ 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 ⁶⁾ *	3/4"-3/8-16 UNC SAE Split Flange
D3 ⁶⁾	3/4 - 16 UNF thread	S3 ⁶⁾ *	1"-3/8-16 UNC SAE Split Flange
D4 ⁶⁾	7/8 - 14 UNF thread	S4 ⁶⁾ *	1 1/4"-7/16-14 UNC SAE Split Flange
D5 ⁶⁾	1 1/16 - 12 UN thread	S5 ⁶⁾ *	1 1/2"-1/2-13 UNC SAE Split Flange
D6 ⁶⁾ *	1 5/16 - 12 UN thread	S6 ⁶⁾ *	2"-1/2-13 UNC SAE Split Flange
D7 ⁶⁾ *	1 5/8 - 12 UN thread	T2*	19.0 mm - M10 3/4" Metric Split Flange
D8 ⁶⁾ *	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		

⁶⁾ Non standard, on request only

*) Not usable for rear ports

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

Ordering Code

Heavy-duty cast-iron Pumps and Motors Series RPGP, RPGM 640

PG		640											
Gear design	Type		Unit	Dis- place- ment	Rotation	Shaft	Flange	Shaft seal	Side Suction Port	Side Pressure Port	Rear Suction Port ¹⁾	Rear Pressure Port ¹⁾	

Code	Type
P	Pump
M	Motor

Code	Unit	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	ccm
0300	30.0
0350	35.0
0400	40.0
0450	45.0
0500	50.0
0550	55.0
0600	60.0
0650	65.0
0700	70.0
0750	75.0
0800	80.0
0900*	90.0
1000	100.0

*) Non standard, on request only

Code	Rotation
C	Clockwise
A	Counter clock-wise
B	Bi-directional

Code	Shaft
D1	13T, 16/32DP, 41.2L, SAE "B" spline
E1	15T, 16/32DP, 46.0L, SAE "B-B" spline
E4	14T, 12/24DP, 55.6L, SAE "C" spline
N1	1 1/4" Keyed SAE-C

Code	Flange
A3	89.8x89.8 - Ø101.06, SAE "B" 4 bolt square flange
A4	114.5x114.5 - Ø127, SAE "C" 4 bolt square flange
H3	146.1 - Ø101.06 SAE "B" 2 bolt flange
K3	181.0 - Ø127 SAE "C" 2 bolt flange

Code	Shaft Seal
X	No seal
N	NBR
V	FPM
T	PTFE (motors 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.
²⁾ Only for motors

Ordering code

Heavy-duty cast-iron Pumps and Motors Series RGP, RPPGM 640

B	1	B	1				640								3)
No rear ports (rear ports on request)				Motor Drain Option ²⁾	Drain Position ²⁾	Section Connection		Unit	Displace- ment	Shaft Seal	Side Suction Port	Side Pres- sure Port	Rear Suction Port ¹⁾	Rear Pres- sure Port ¹⁾	

Code	Section Connection
S	Separate inlets
C	Common inlets

Code	Drain Position
2	Drain on bottom
3	Drain on top
4	Rear drain

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

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

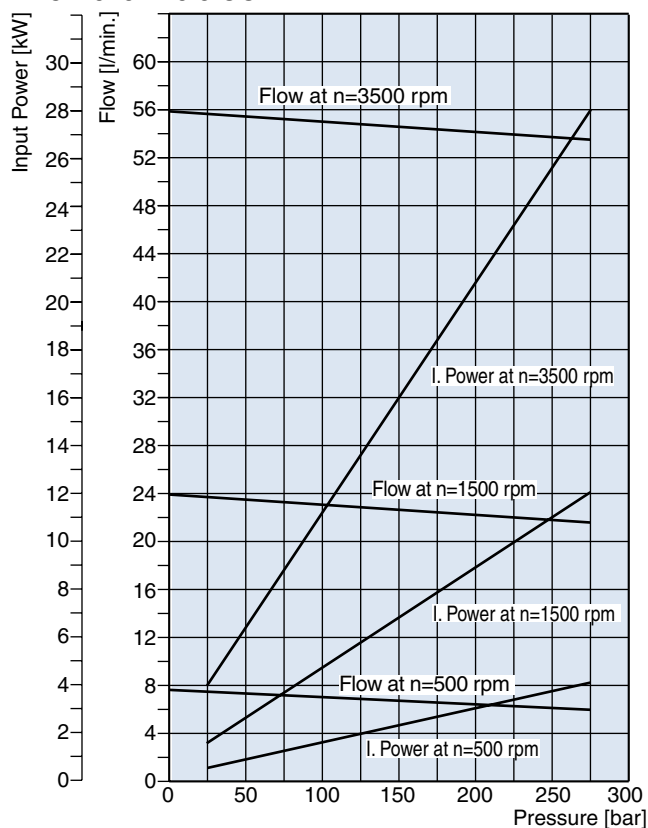
⁴⁾ Non standard, on request only

*) Not usable for rear ports

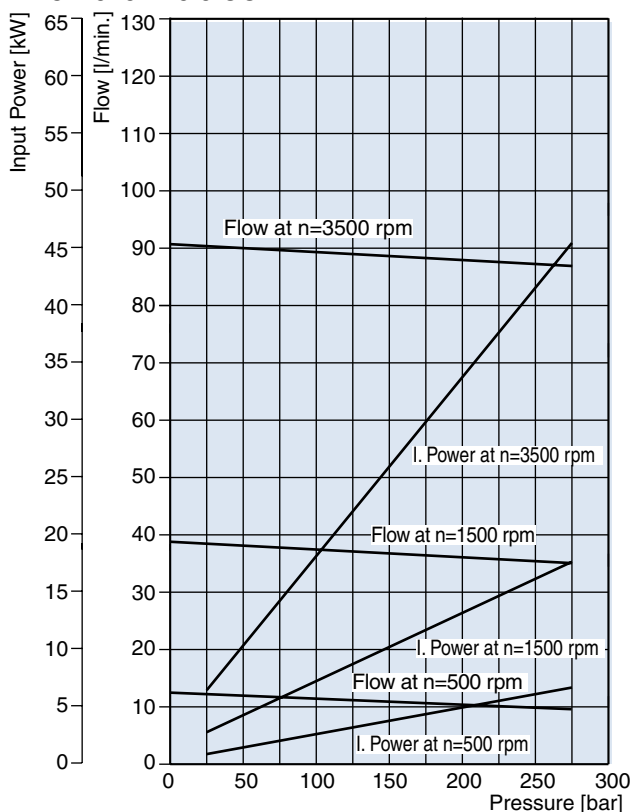
³⁾ For further "B" triple unit repeat
displacement,
shaft seal between sections,
side suction port,
side pressure port,
rear suction port,
rear pressure port.

Performance data

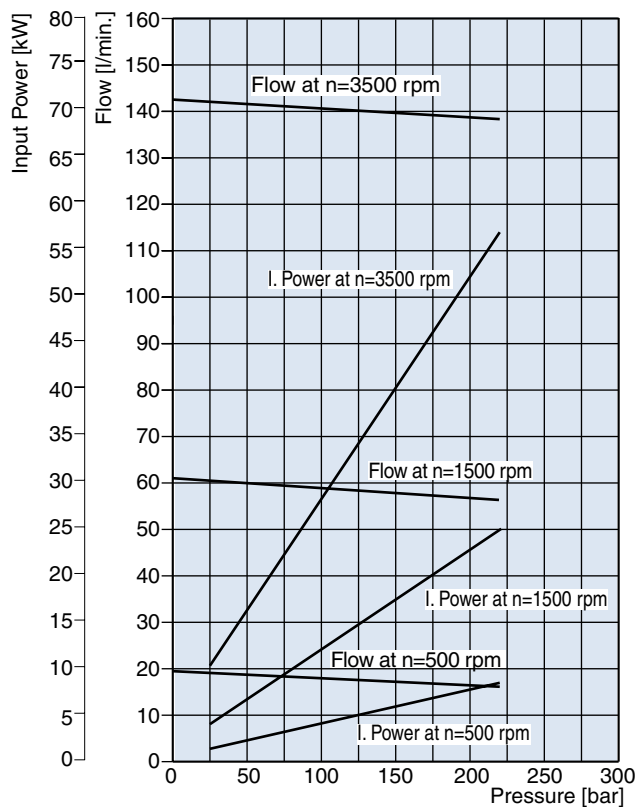
RPGP 620 - 16.0 CC



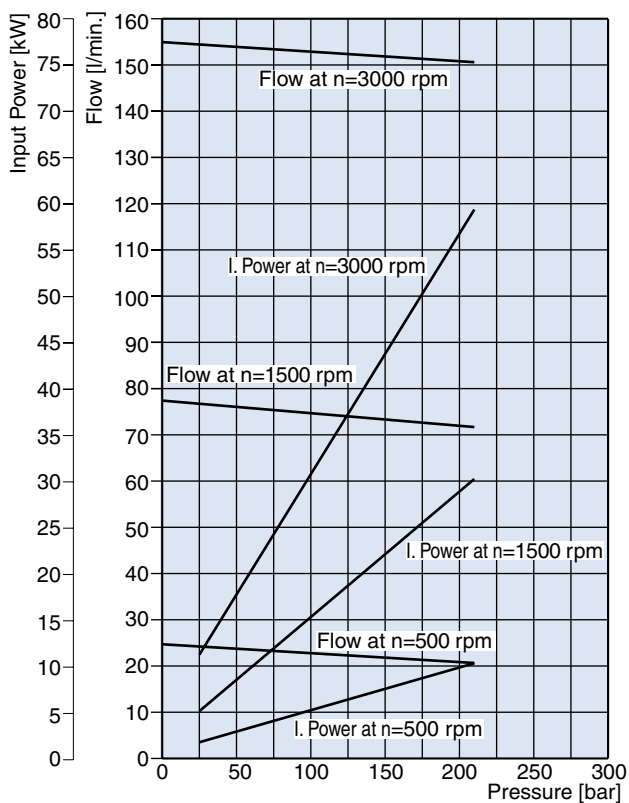
RPGP 620 - 26.0 CC



RPGP 620 - 41.0 CC

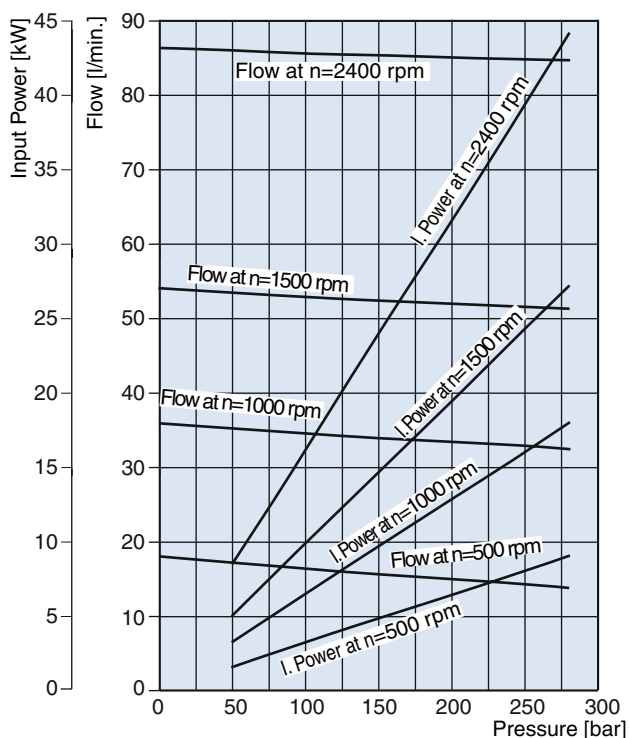


RPGP 620 - 52.0 CC

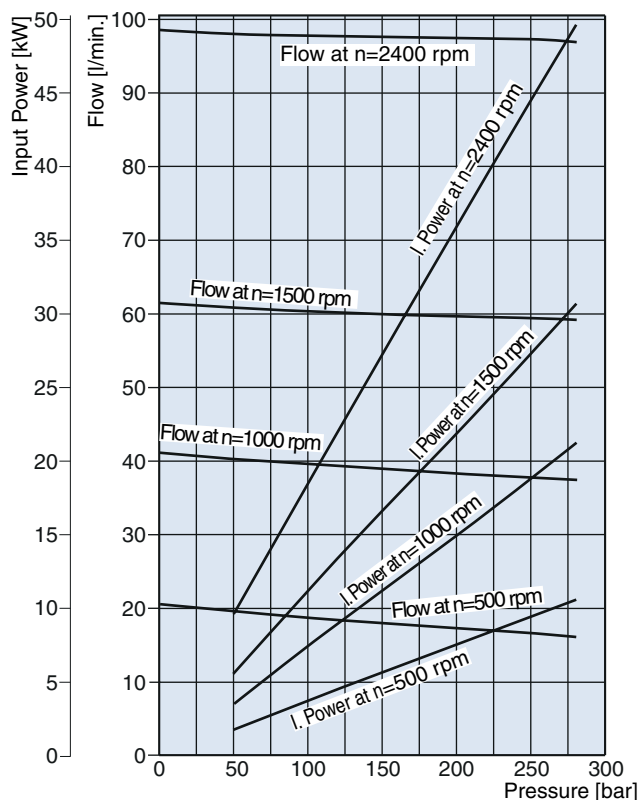


Fluid Temperature = 45 ± 2 °C
 Viscosity = $36 \text{ mm}^2/\text{s}$
 Inlet Pressure = $0.9 + 0.1$ bar absolute

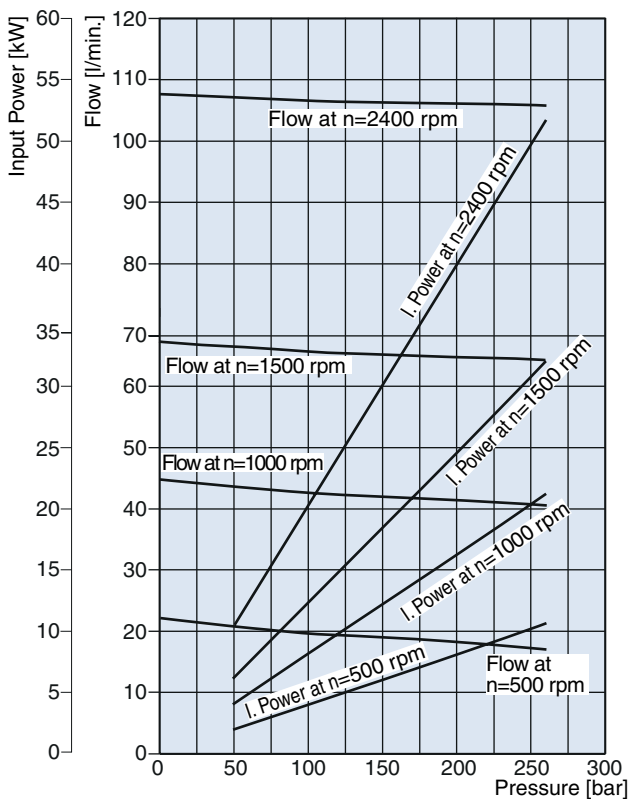
RPGP 625 - 36.0 CC



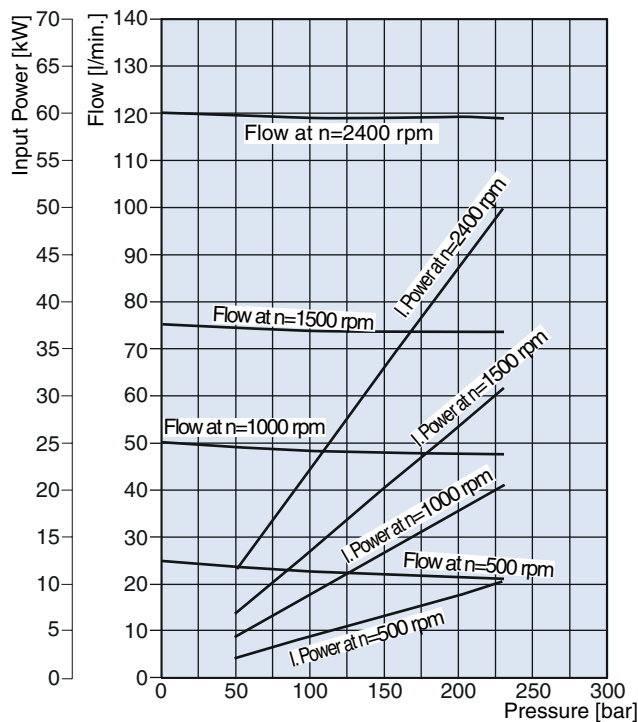
RPGP 625 - 41.0 CC



RPGP 625 - 45.0 CC



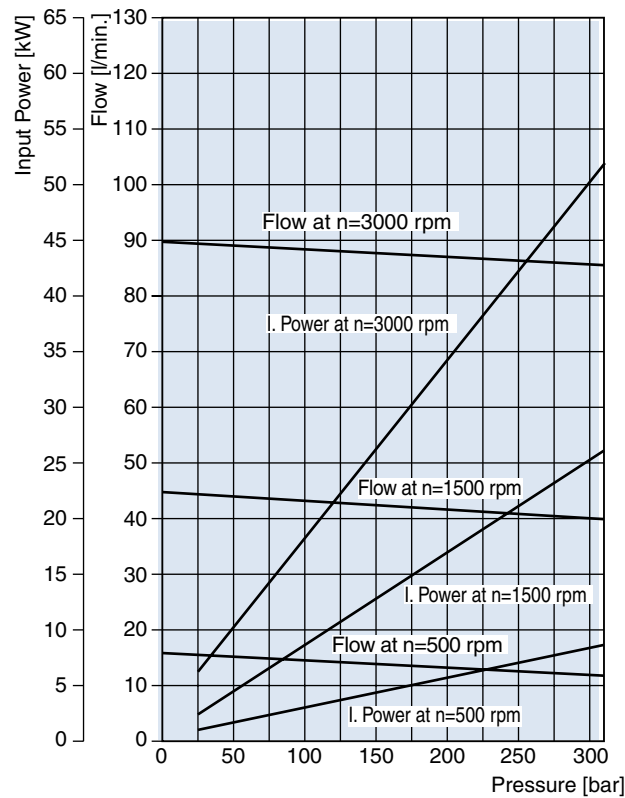
RPGP 625 - 50.0 CC



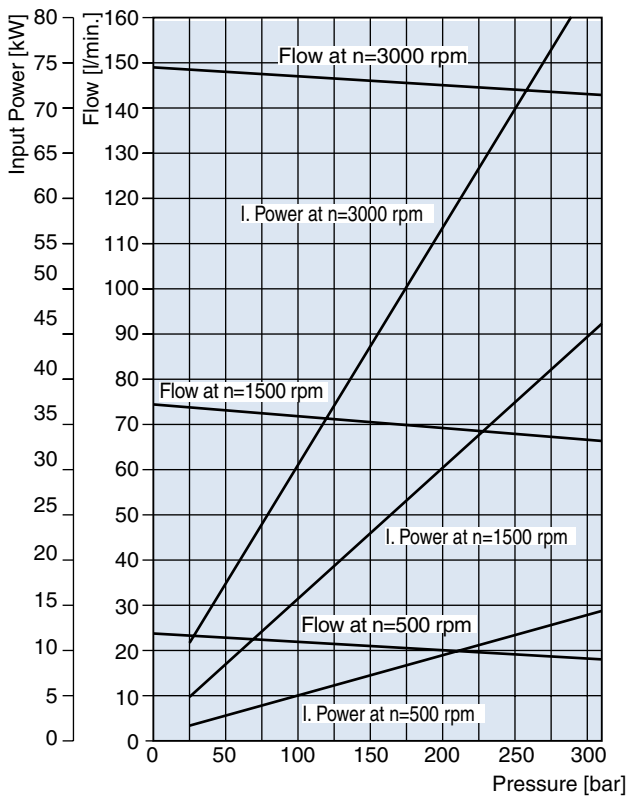
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Performance data

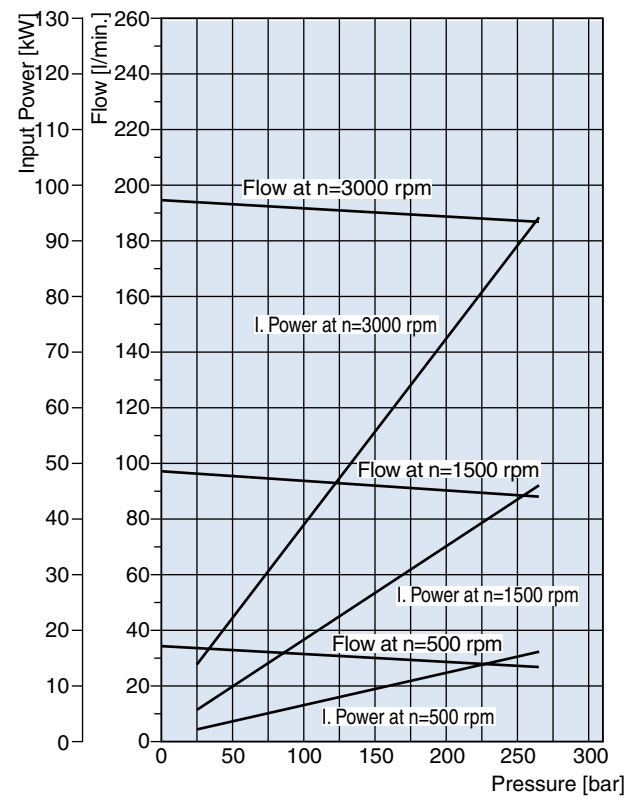
RPGP640 - 30.0 CC



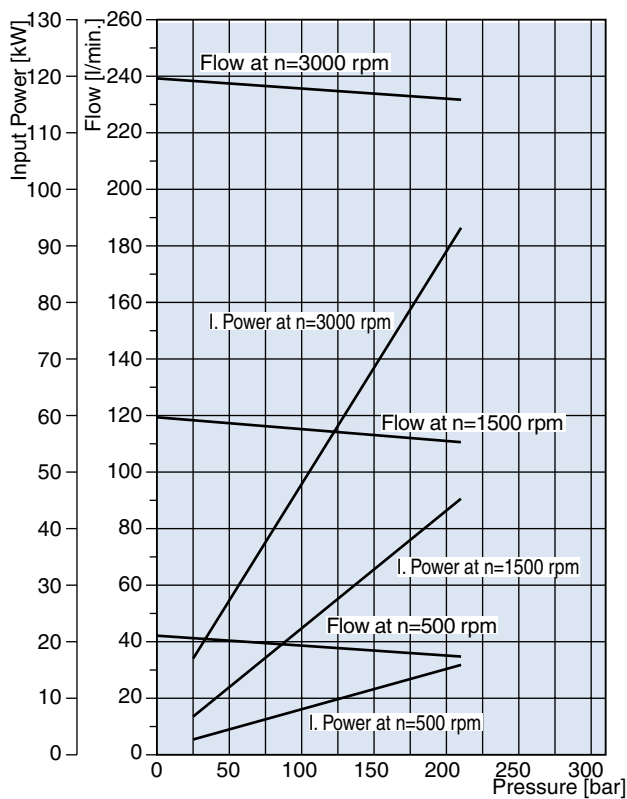
RPGP640 - 50.0 CC



RPGP640 - 65.0 CC



RPGP640 - 80.0 CC

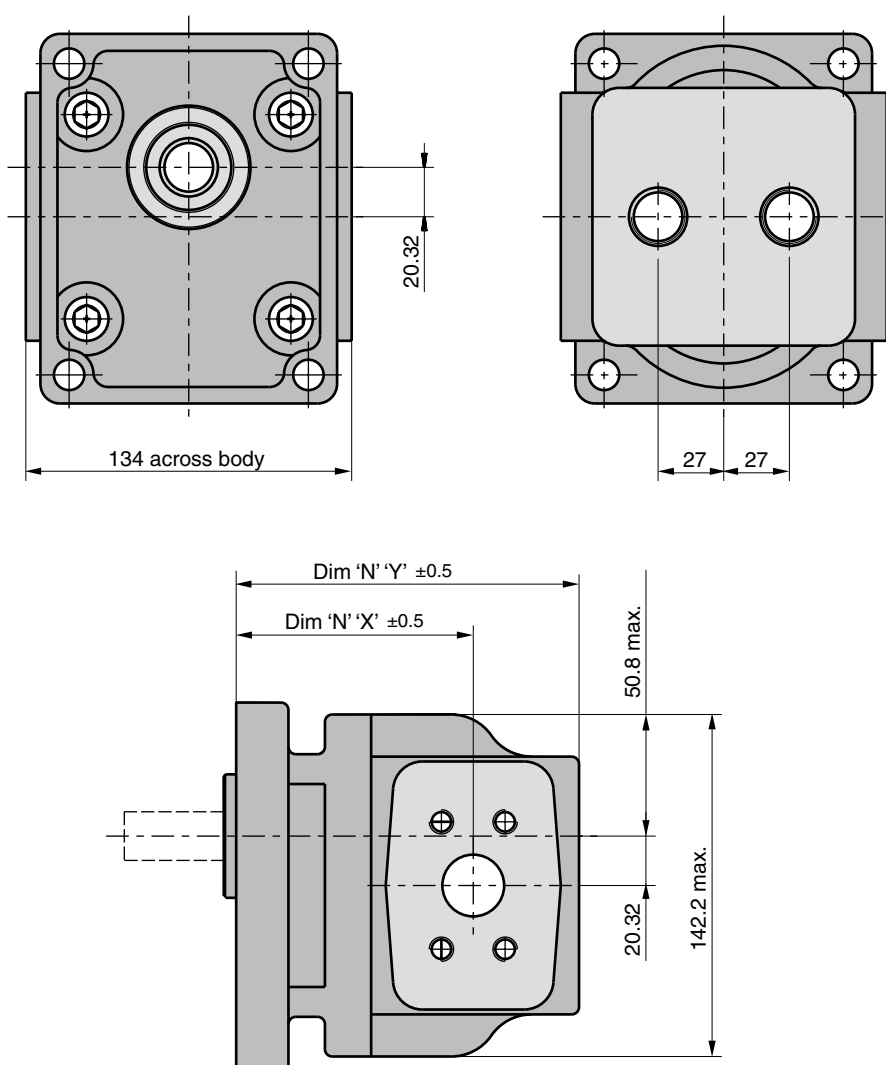


Fluid temperature: 45± 2 °C
Viscosity: 36 mm²/s
Inlet pressure: 0.9 + 0.1 bar absolute

Technical Data / Dimensions

RPGP/RPGM 620 Specification - Standard Displacements - Single Unit

Pump Displacement	Code	0160	0190	0230	0260	0290	0330	0360	0370	0410	0440	0500	0520
	cm ³ /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 @ Max. outlet pressure	rpm	500	500	500	500	500	500	500	500	500	500	500	500
Maximum Speed @ 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

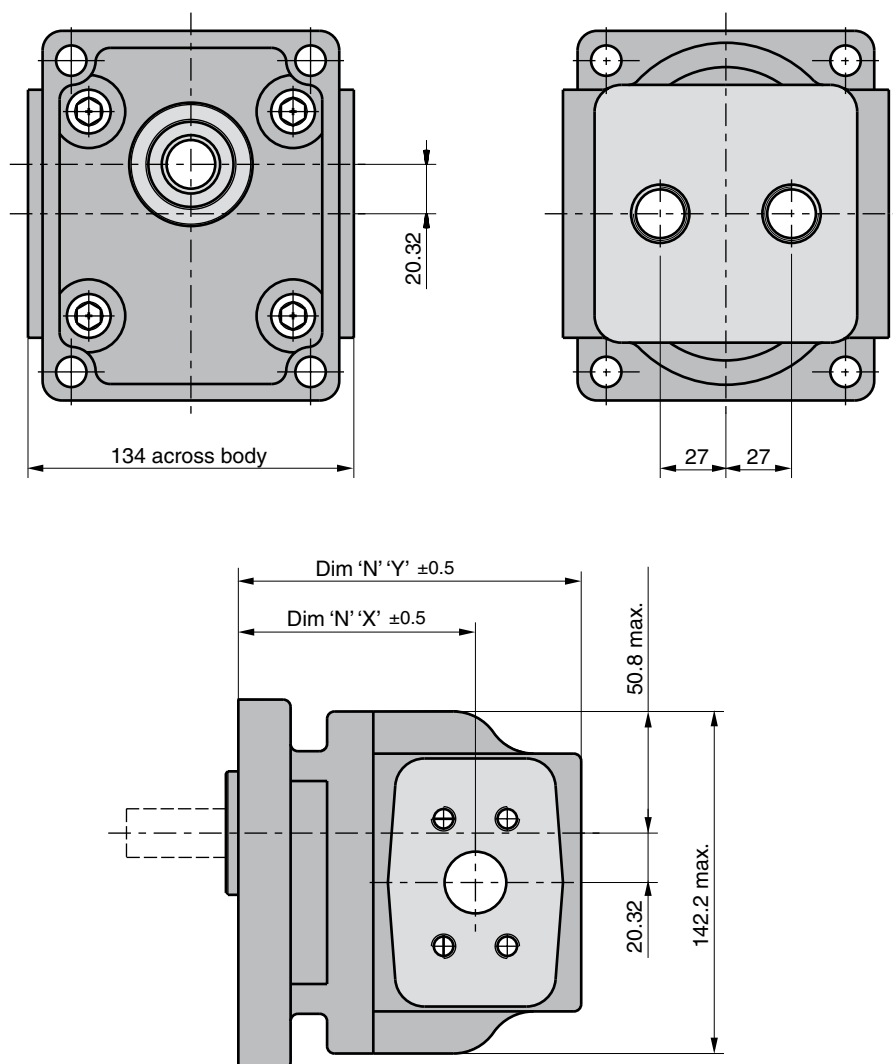


Dimension Flanges see pages 63 to 64

Dimension Shafts see pages 67 to 68

RPGP 625 Specification - Standard Displacements - Single Unit

Pump Displacement	Code	0360	0410	0450	0500
	cm ³ /rev	36.0	41.0	45.0	50.0
Max. Continuous Pressure	bar	280	280	260	230
Minimum Speed @ Max. outlet pressure	rpm	500	500	500	500
Maximum Speed @ 0 Inlet & Max. outlet pressure	rpm	3500	3500	3500	3000
Dimension "X"	mm	101.2	106.7	110.0	116.6
Dimension "Y"	mm	144.7	150.2	153.5	160.1
Approx. Weight	kg	12.8	13.0	13.1	13.3



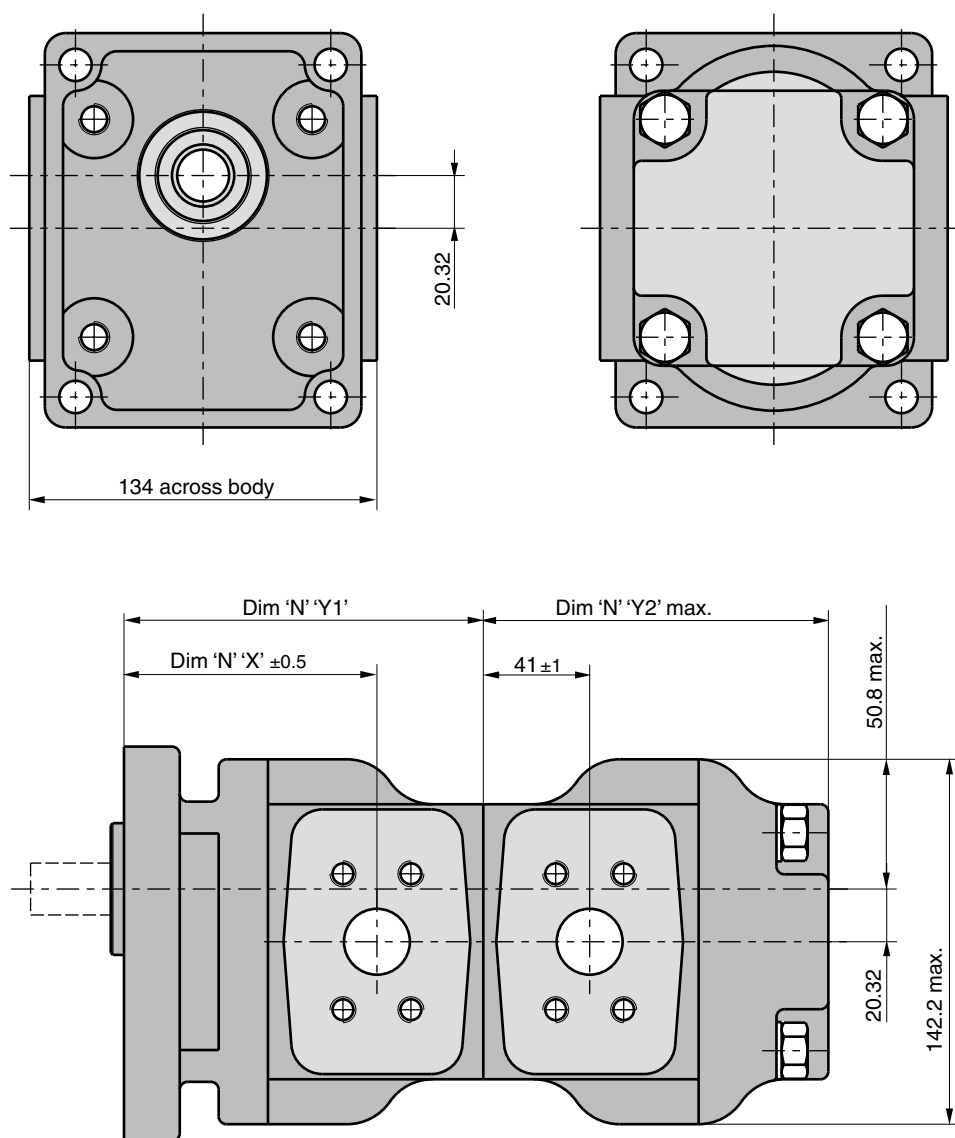
Dimension Flanges see pages 63 to 64

Dimension Shafts see pages 67 to 68

Technical Data / Dimensions

RPGP/RPGM 620 Specification - Standard Displacements - Tandem Unit

Pump Displacement	Code	0160	0190	0230	0260	0290	0330	0360	0370	0410	0440	0500	0520
	cm ³ /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 (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 (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

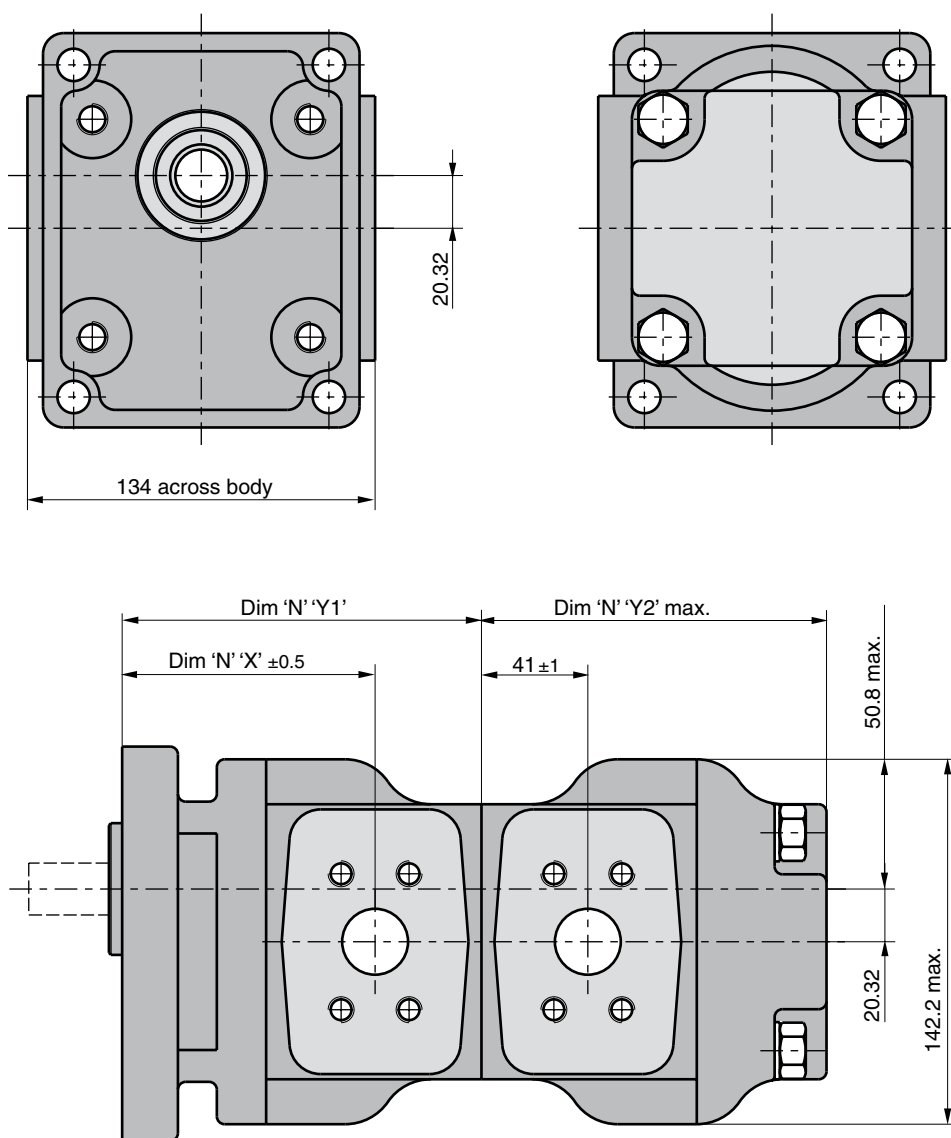


Dimension Flanges see pages 63 to 64

Dimension Shafts see pages 67 to 68

RPGP 625 Specification - Standard Displacements - Tandem Unit

Pump Displacement	Code	0360	0410	0450	0500
	cm³/rev	36.0	41.0	45.0	50.0
Dimension "X"	mm	101.2	106.7	110.0	116.6
Dimension "Y1 "	mm	142.2	147.7	151.0	157.6
Dimension "Y2" max.	mm	137.2	142.7	146.0	152.6
Approximate Weight (front section)	kg	12.8	13.0	13.1	13.3
Approx. Weight (rear section)	kg	11.2	11.4	11.5	11.7

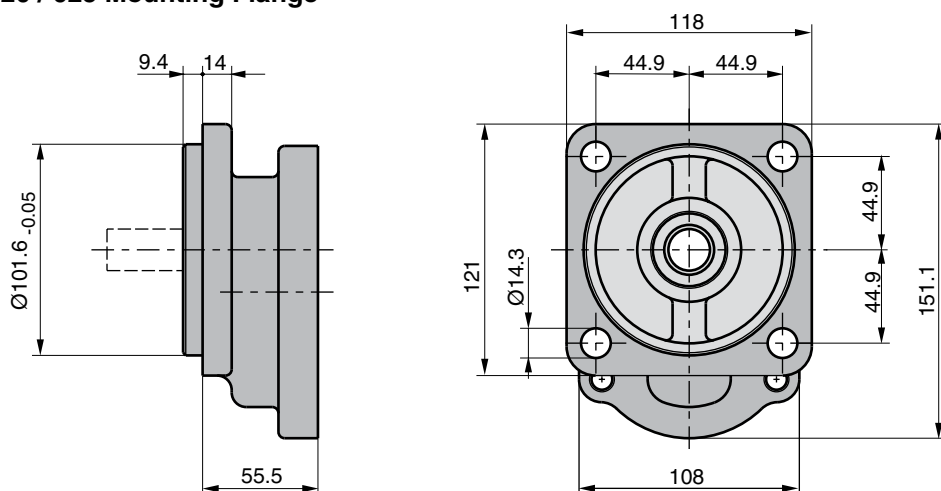


Dimension Flanges see pages 63 to 64

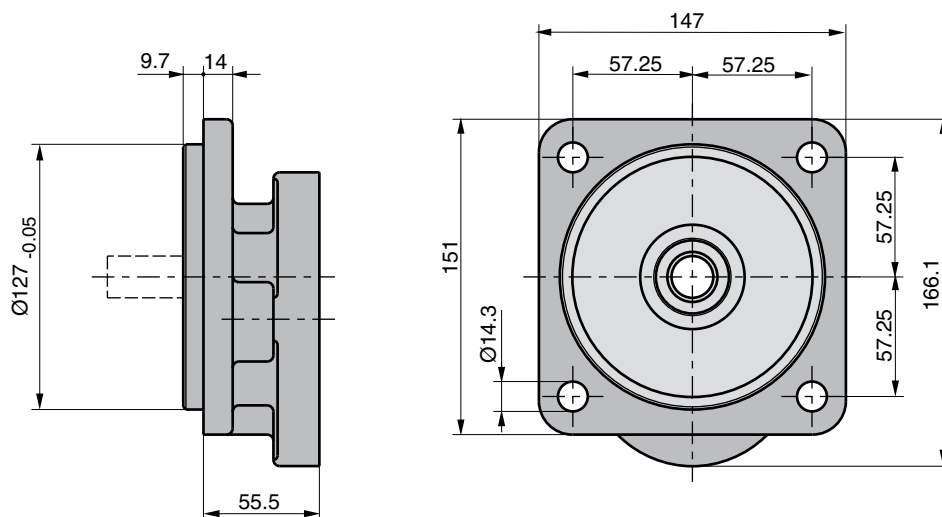
Dimension Shafts see pages 67 to 68

RPGP/RPGM 620 / 625 Mounting Flange

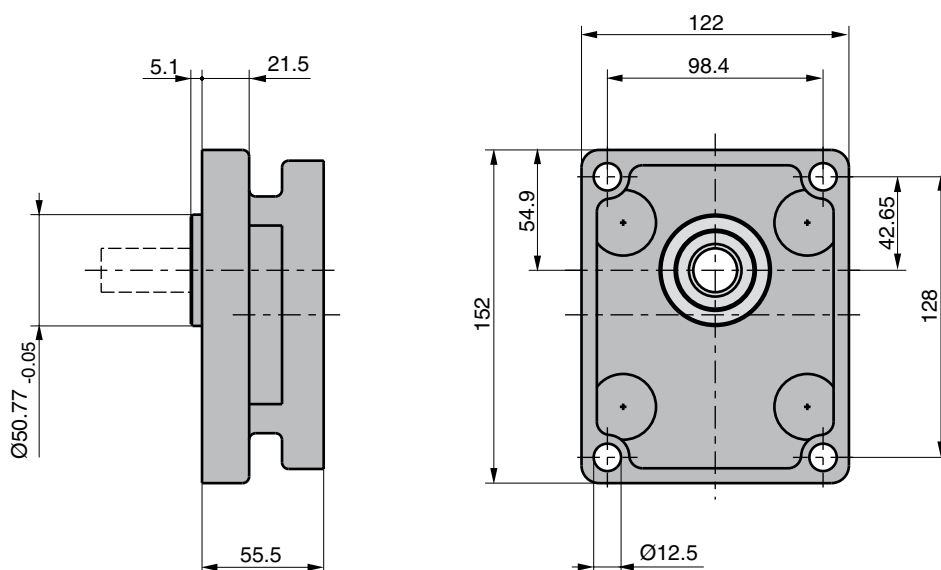
Code A3



Code A4



Code D7

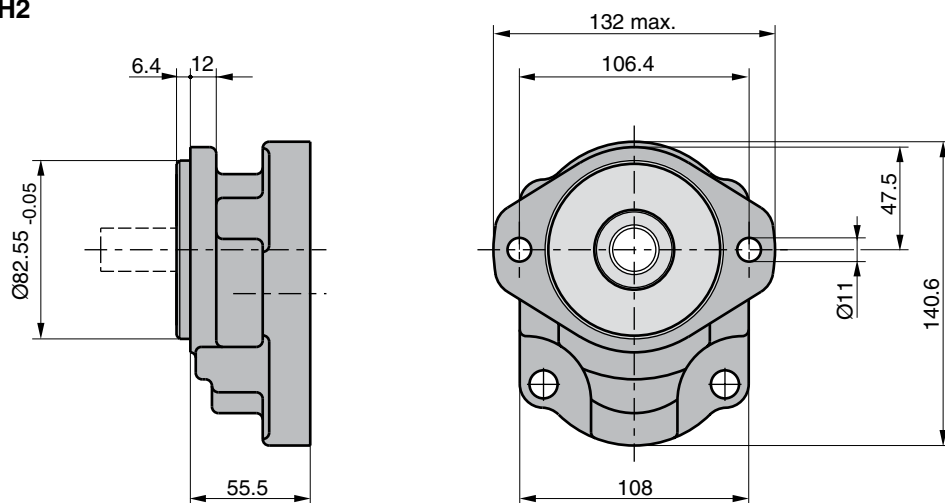


Mounting flange options

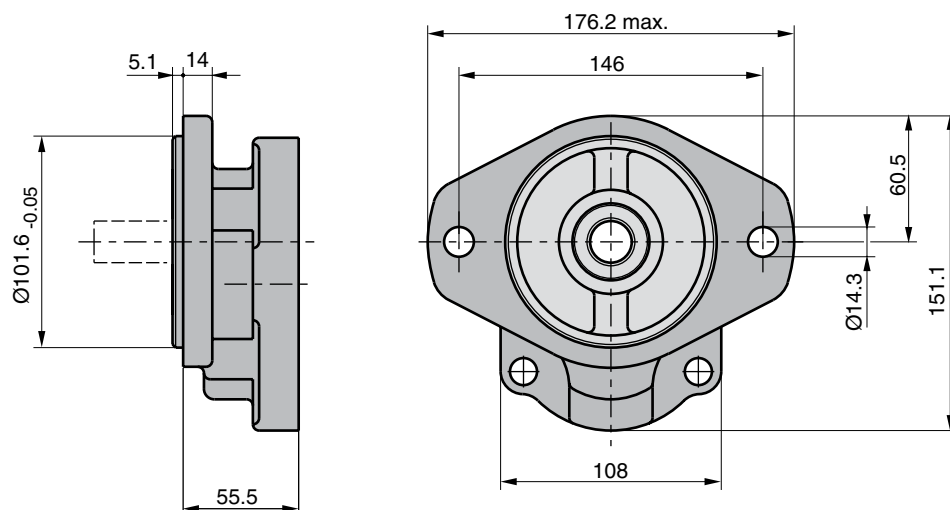
Heavy-duty cast-iron Pumps and Motors Series RGP, RGM 620 / 625

RGP/RGM 620 / 625 Mounting

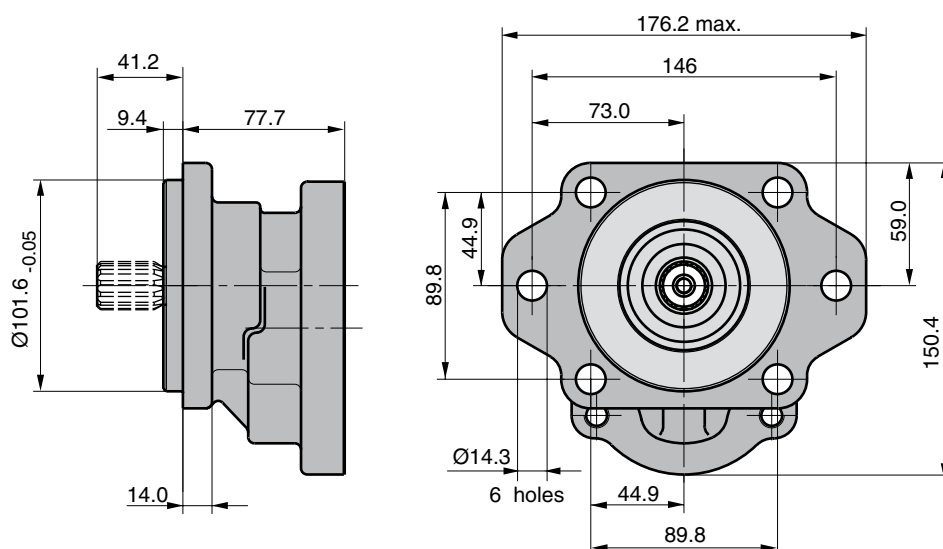
Flange Code H2



Code H3



Code L3



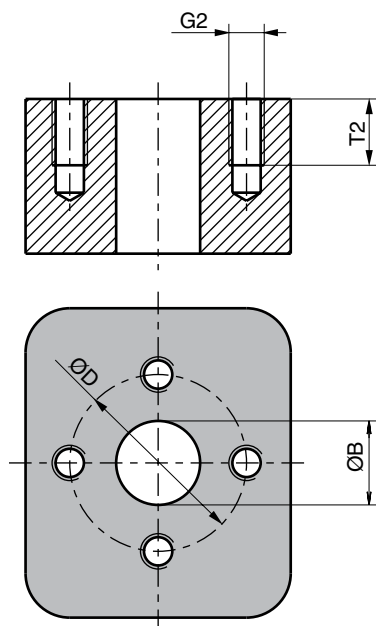
Port options

Heavy-duty cast-iron Pumps and Motors Series RPGP, RPGM 620 / 625

RPGP/RPGM 620 / 625 Porting

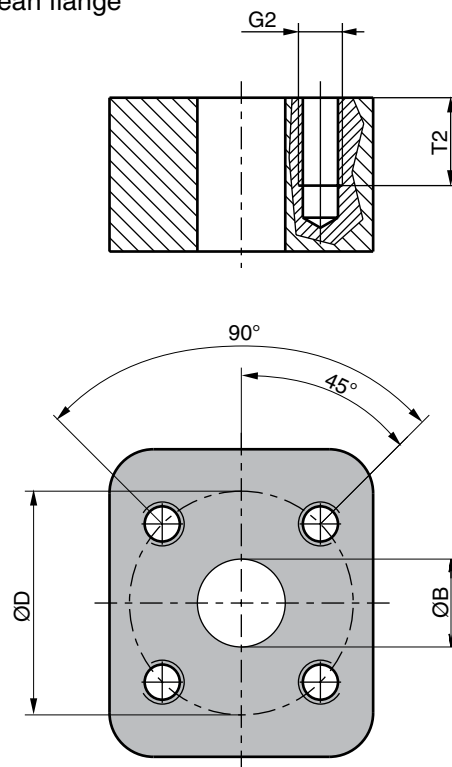
Code L

4-Bolt flange



Code J

European flange



RPGP/RPGM / 625 620

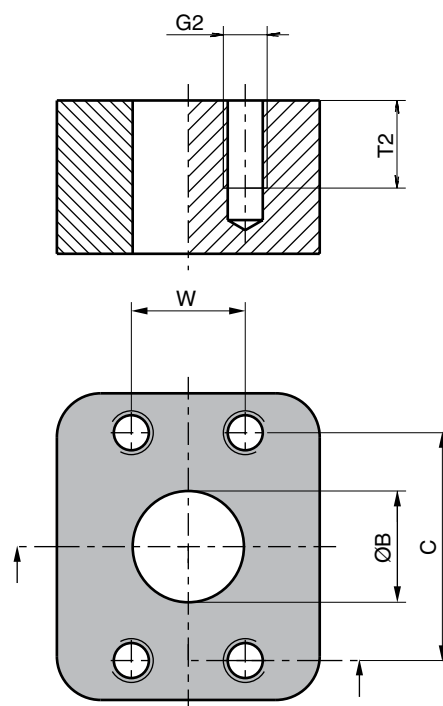
Code	G2	ØB	ØD	C	W	T2
	Thread	Dimensions				
J5	M6	15.0	35.0			12.5
J7	M6	20.0	40.0			13.0
J8	M8	18.0	55.0			15.0
J9	M8	26.0	55.0			15.0
L1	M6	13.0	30.0			13.0
L2	M8	19.0	40.0			15.0
L3	M10	27.0	51.0			18.0
S2	3/8-16 UNC	19.0		47.63	22.23	14.0
S3	3/8-16 UNC	25.4		52.37	26.19	20.6
S4	7/16-14 UNC	31.8		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



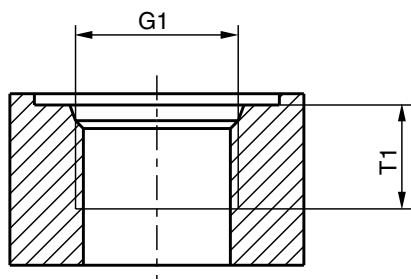
Port options

Heavy-duty cast-iron Pumps and Motors Series RPGP, RPGM 620 / 625

RPGP/RPGM 620 / 625 Porting

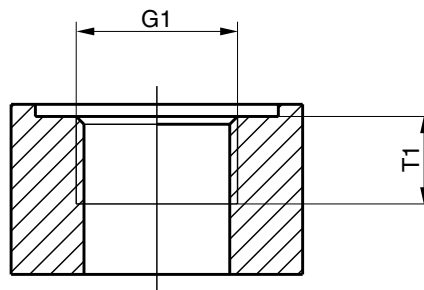
Code D

SAE straight thread



Code E

BSP - thread

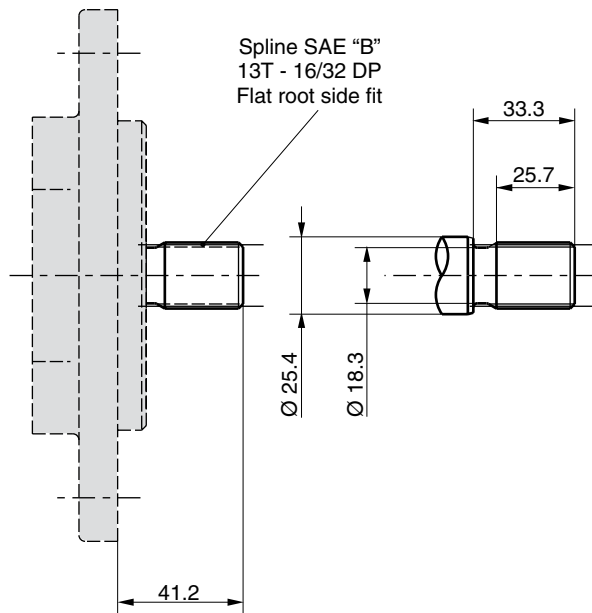


RPGP/RPGM 620 / 625

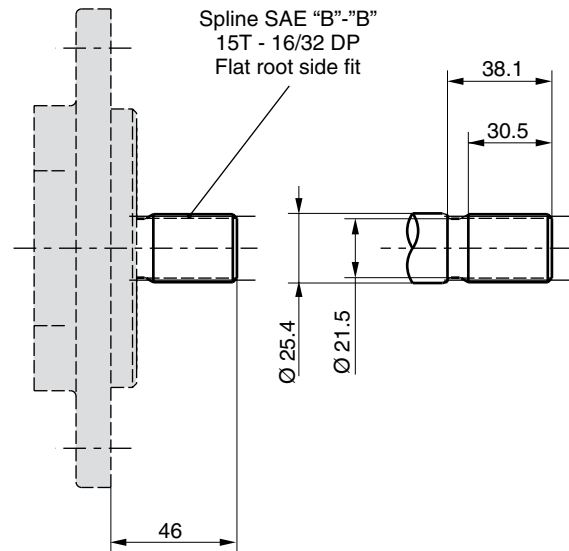
Code	G1	T1
	Thread	Dimensions
D3	3/4-16 UNF	14.3
D4	7/8-14 UNF	16.7
D5	1 1/16-12 UN	19.0
D6	1 5/16-12 UN	19.0
D7	1 5/8-12 UN	19.0
D8	1 7/8-12 UN	19.0
E3	1/2-14 BSP	14.0
E4	5/8-14 BSP	16.3
E5	3/4-16 BSP	16.0
E6	1-11 BSP	18.0
E7	1 1/4-11 BSP	20.0
E8	1 1/2-11 BSP	22.0

RPGP/RPGM 620 / 625 Drive

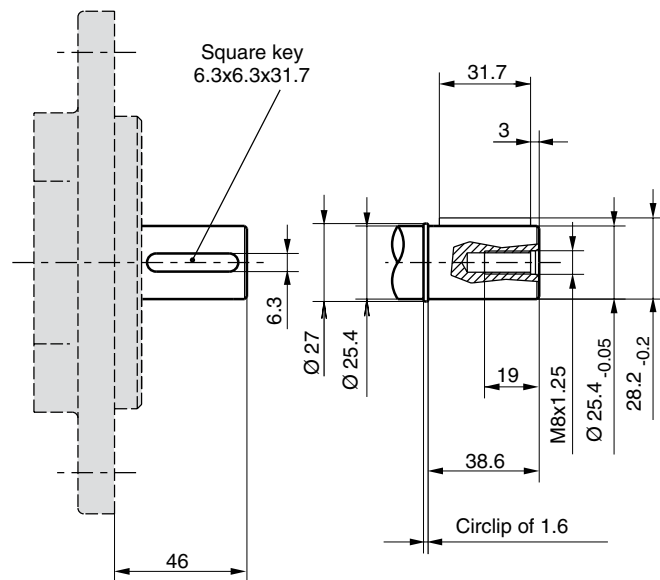
Shaft Code D1



Code E1



Code M3

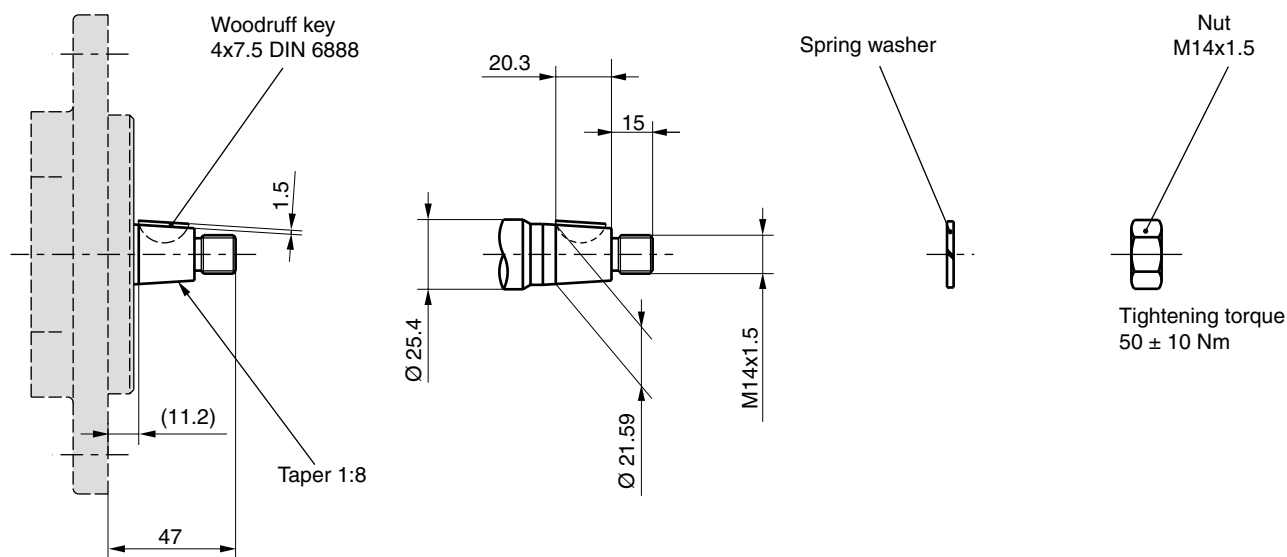


Drive shaft options

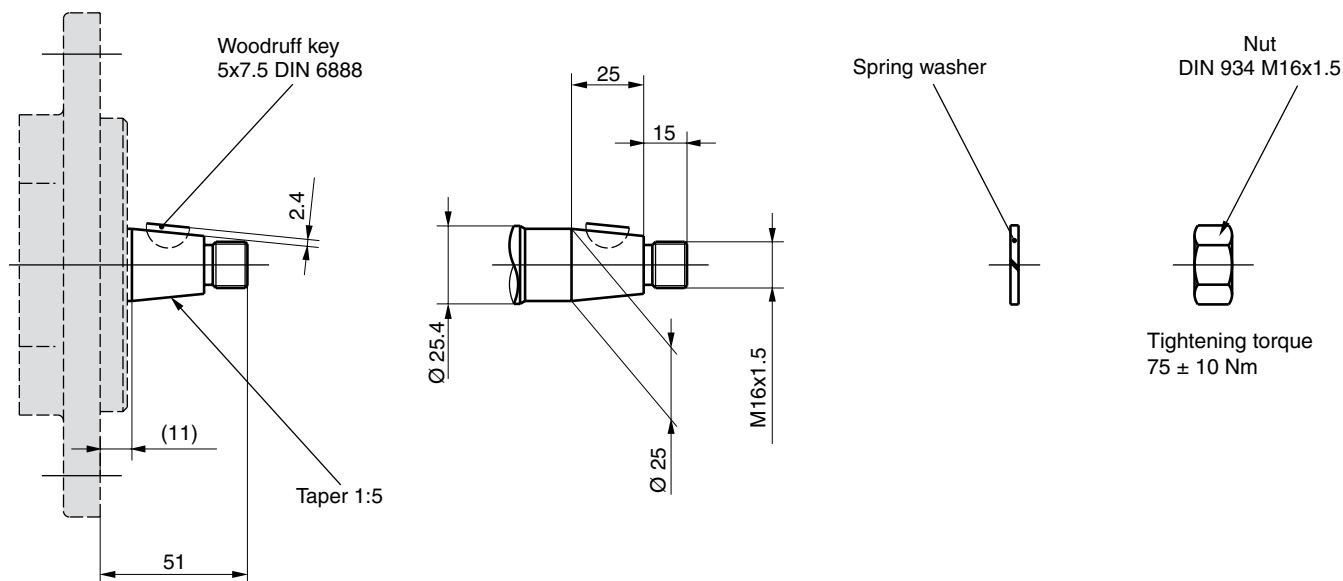
Heavy-duty cast-iron Pumps and Motors Series RPGP, RPGM 620 / 625

RPGP/RPGM 620 / 625 Drive

ShaftCode T1



Code T2



RPGP/RPGM 620 / 625- Shaft Load Capacity

Code	Description		Torque Rating [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

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

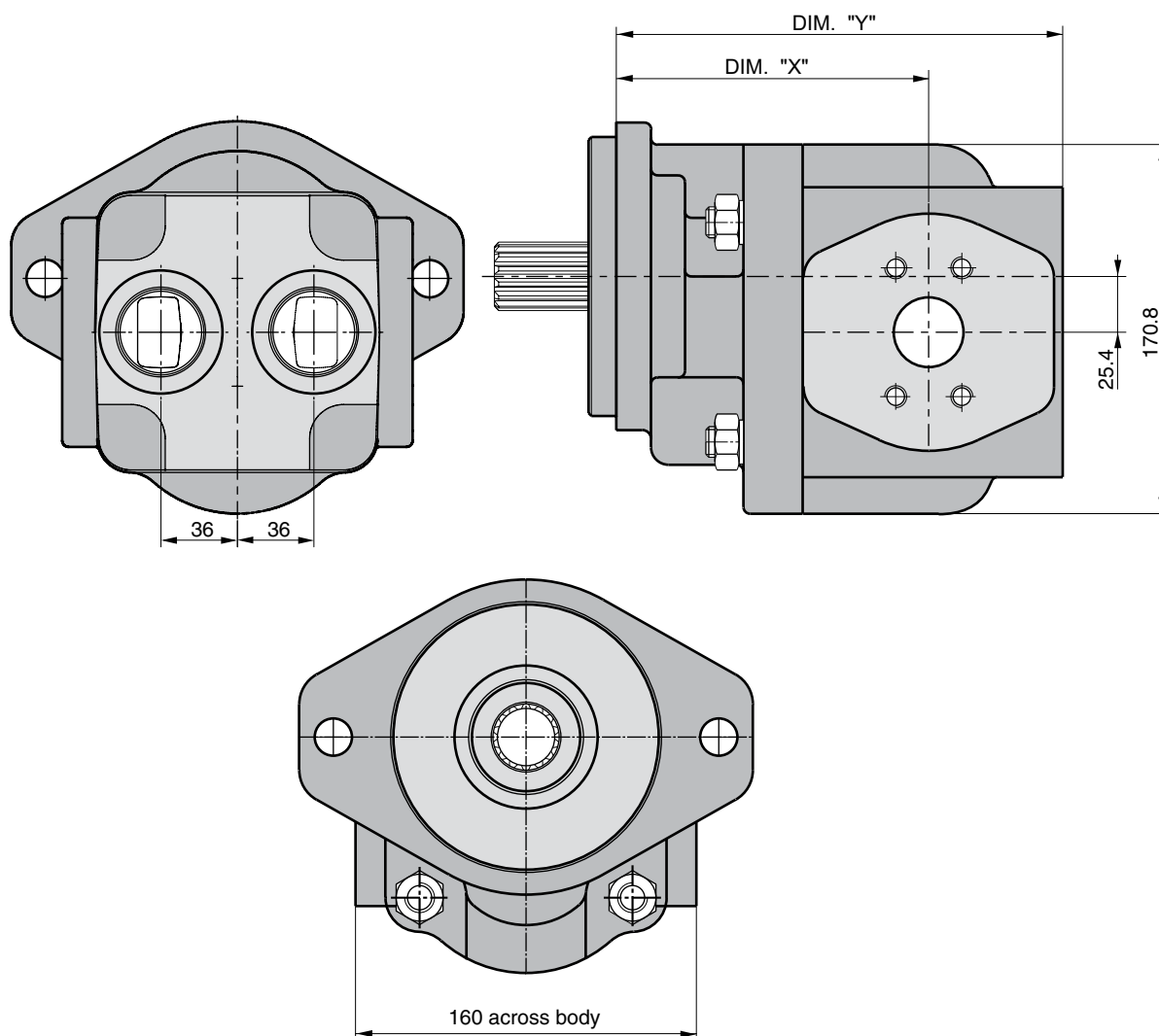
Technical Data / Dimensions

RPGP/RPGM 640 Specification - Standard Displacements - Single Unit

Pump Displ	Code	300	350	400	450	500	550	600	650	700	750	800	900	1000
	cm³/rev	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	90.0	100.0
Max. Continuous Pressure	bar	310	310	310	310	310	310	290	265	245	225	210	190	180
Minimum Speed at max. outlet pressure	rpm	500	500	500	500	500	500	500	500	500	500	500	500	500
Maximum Speed at = inlet & max. Outlet pressure	rpm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Dimension "X"	mm	128.6	128.6	131.8	131.8	135.6	135.6	138.4	138.4	142.2	142.2	142.2	149.8	149.8
Dimension "Y"	mm	176.1	176.1	182.7	182.7	189.3	189.3	195.8	195.8	203.2	203.2	203.2	216.4	216.4
Aprox. Weight	Kg	20.6	20.6	21.2	21.2	22.0	22.0	22.6	22.6	23.3	23.3	25.0	25.5	25.5

Dimension Flanges see pages 73 to 74

Dimension Shafts see page 77



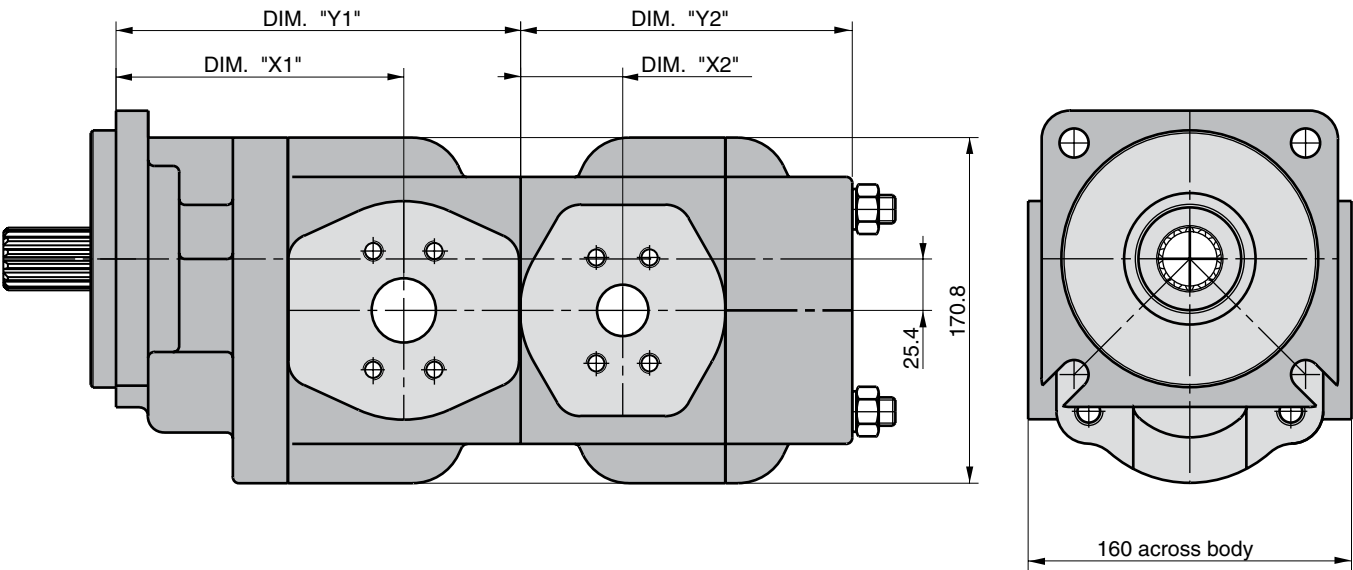
Dimensions

RPGP/RPGM 640 Specification - Standard Displacements - Tandem Unit

Pump Displ	Code	300	350	400	450	500	550	600	650	700	750	800	900	1000
	cm³/rev	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	90.0	100.0
Dimension "X1"	mm	128.6	128.6	131.8	131.8	135.6	135.6	138.4	138.4	142.2	142.2	142.2	149.8	149.8
Dimension "Y1"	mm	176.1	176.1	182.7	182.7	189.3	189.3	195.8	195.8	203.2	203.2	203.2	216.4	216.4
Dimension "X2"	mm	44.3	44.3	47.8	47.8	50.5	50.5	54.3	54.3	57.8	57.8	57.8	63.4	63.4
Dimension "Y2"	mm	147.5	147.5	154.1	154.1	160.7	160.7	167.2	167.2	174.6	174.6	174.6	184.2	184.2
Aprox. Weight front section	Kg	20.6	20.6	21.2	21.2	22.0	22.0	22.6	22.6	23.3	23.3	25.0	25.5	25.5
Aprox. Weight rear section	Kg	20.1	20.1	20.7	20.7	21.5	21.5	22.1	22.1	22.8	22.8	24.5	25.0	25.0

Dimension Flanges see pages 73 to 74

Dimension Shafts see page 77



Dimensions

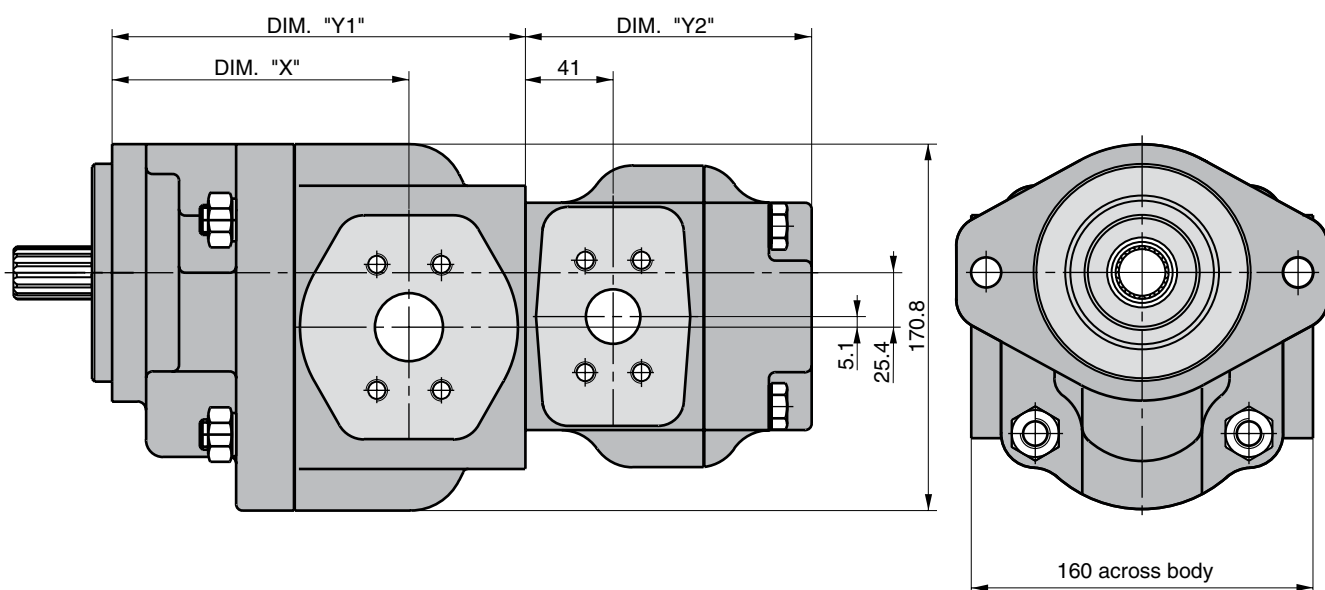
Heavy-duty cast-iron Pumps and Motors Series RGP 640 / 620

RGP 640/620 Specification - Standard Displacements - Tandem Unit

Pump Displ. 640	Code	300	350	400	450	500	550	600	650	700	750	800	900	1000
	cm ³ /rev	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	90.0	100.0
Dimension "X1"	mm	128.6	128.6	131.8	131.8	135.6	135.6	138.4	138.4	142.2	142.2	142.2	149.8	149.8
Dimension "Y1"	mm	176.1	176.1	182.7	182.7	189.3	189.3	195.8	195.8	203.2	203.2	203.2	216.4	216.4
Pump Displ. 620	Code	160	190	210	230	260	290	330	360	370	410	440	500	520
	cm ³ /rev	16.0	19.0	21.0	23.0	26.0	29.0	33.0	36.0	37.0	41.0	44.0	50.0	52.0
Dimension "Y2"	mm	115.2	118.5	120.7	122.9	126.2	129.5	133.9	137.2	138.3	142.7	146	152.6	154.8
Aprox. Weight front section	Kg	20.6	20.6	21.2	21.2	22.0	22.0	22.6	22.6	23.3	23.3	25.0	25.5	25.5
Aprox. Weight rear section	Kg	10.4	10.5	10.5	10.6	10.7	11	11.1	11.2	11.3	11.4	11.5	11.7	11.8

Dimension Flanges see pages 73 to 74

Dimension Shafts see page 77



Heavy-duty cast-iron Pumps and Motors Series RPGP 640 / 625

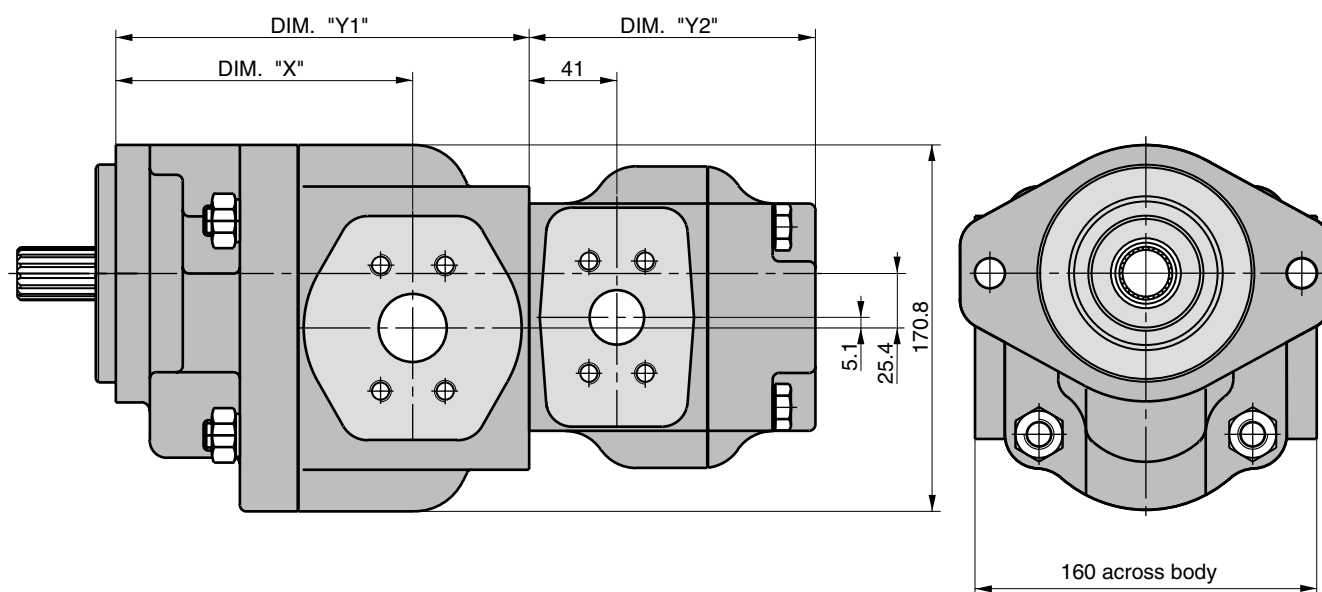
Dimensions

RPGP 640/625 Specification - Standard Displacements - Tandem Unit

Pump Displ. 640	Code	300	350	400	450	500	550	600	650	700	750	800	900	1000
	cm ³ /rev	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	90.0	100.0
Dimension "X1"	mm	128.6	128.6	131.8	131.8	135.6	135.6	138.4	138.4	142.2	142.2	142.2	149.8	149.8
Dimension "Y1"	mm	176.1	176.1	182.7	182.7	189.3	189.3	195.8	195.8	203.2	203.2	203.2	216.4	216.4
Pump Displ. 625	Code	360	410	450	500									
	cm ³ /rev	36.0	41.0	44.0	50.0									
Dimension "Y2"	mm	137.2	142.7	146	152.6									
Aprox. Weight front section	Kg	22.6	23.3	25.0	25.5									
Aprox. Weight rear section	Kg	11.2	11.4	11.5	11.7									

Dimension Flanges see pages 73 to 74

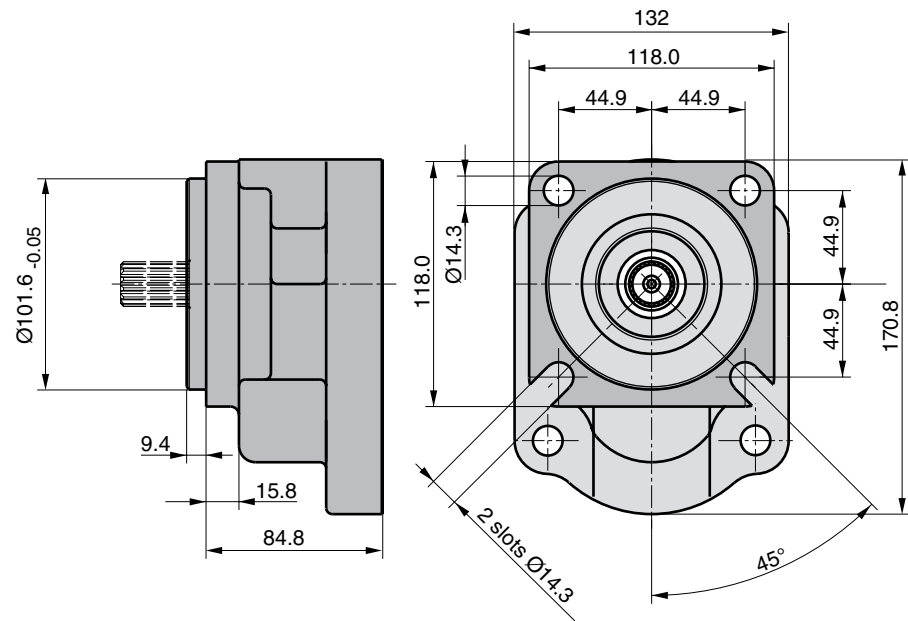
Dimension Shafts see page 77



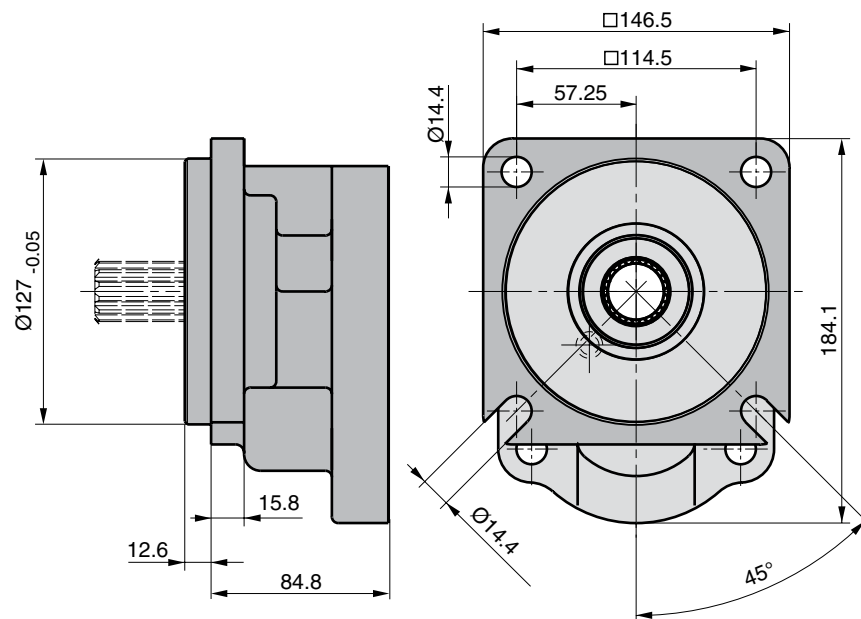
Mounting flange options

RPGP/RPGM 640 Mounting

FlangeCode A3



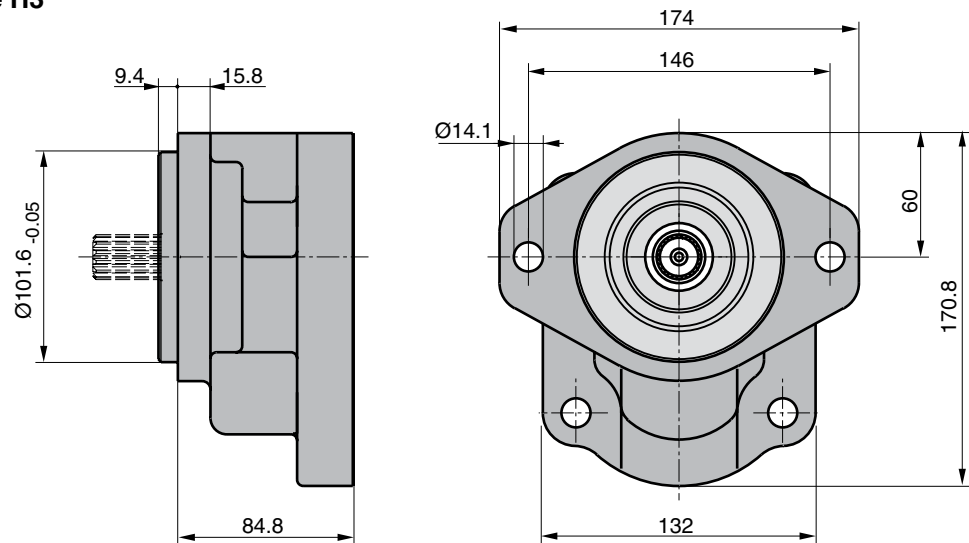
Code A4



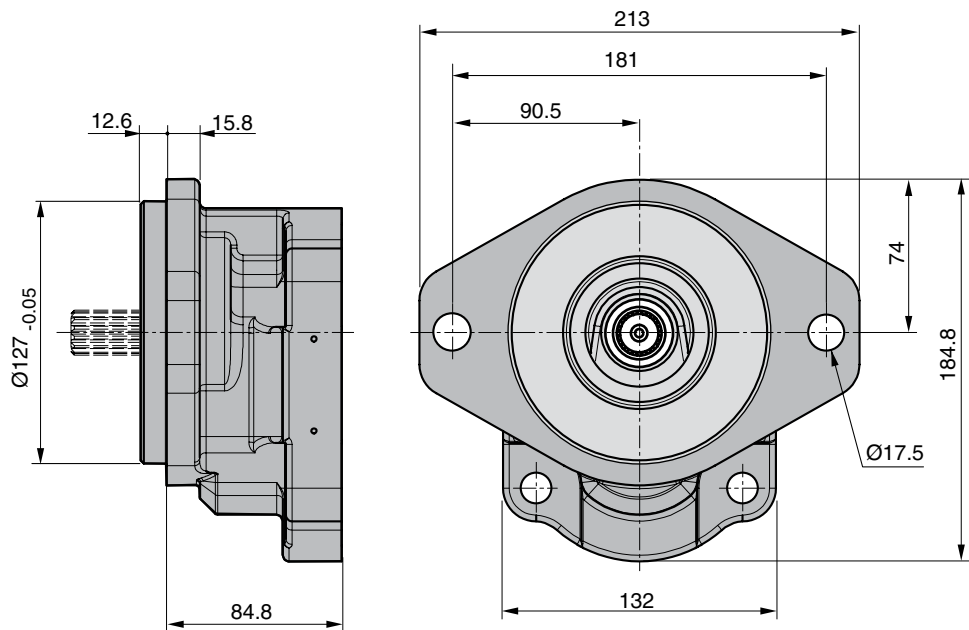
Mounting flange options

RPGP/RPGM 640 Mounting

FlangeCode H3



Code K3

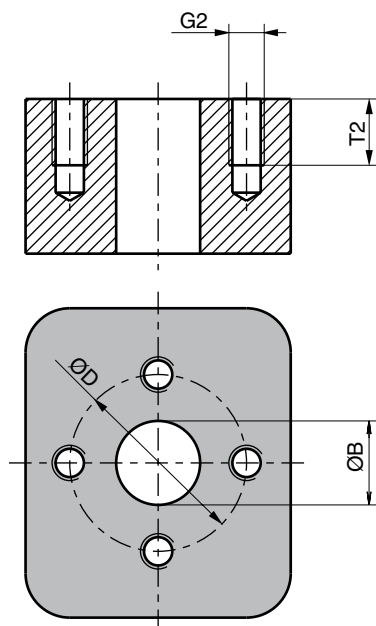


Port options

RPGP/RPGM 640 Porting

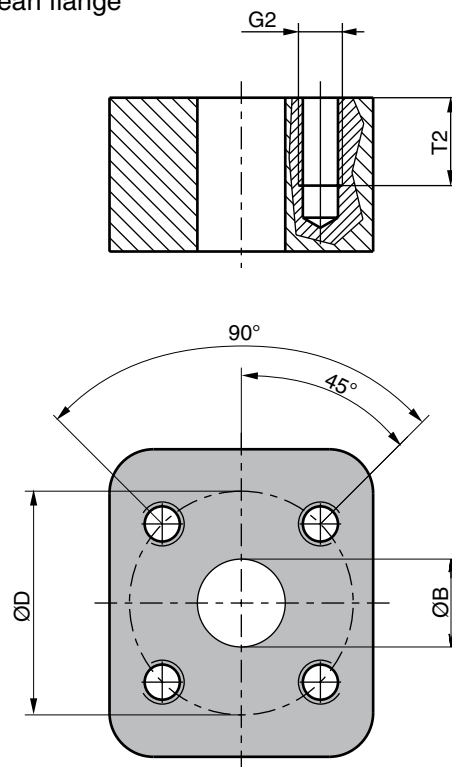
Code L

4-Bolt flange



Code J

European flange



RPGP/RPGM 640

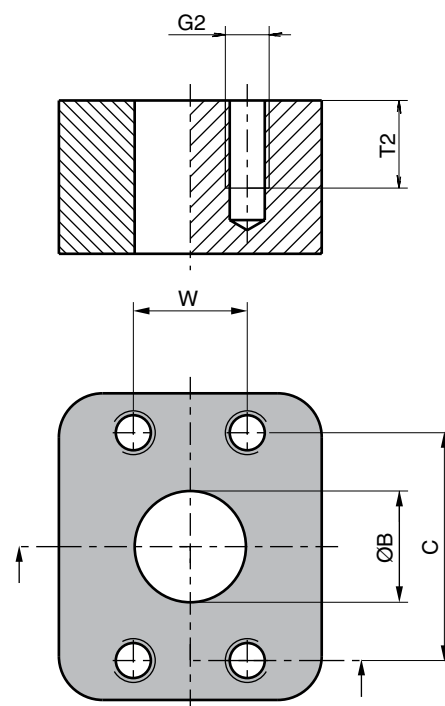
Code	G2	ØB	ØD	C	W	T2
	Thread	Dimensions				
J8	M8	18.0	55.0			15.0
J9	M8	26.0	55.0			15.0
L2	M8	19.0	40.0			15.0
L3	M10	27.0	51.0			18.0
S2	3/8-16 UNC	19.0		47.63	22.23	14.0
S3	3/8-16 UNC	25.4		52.37	26.19	20.6
S4	7/16-14 UNC	31.8		58.72	30.17	20.6
S5	1/2-13 UNC	38.1		69.82	35.71	20.6
S6	1/2-13 UNC	50.8		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

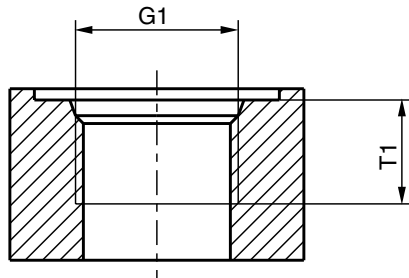


Port options

RPGP/RPGM 640 Porting

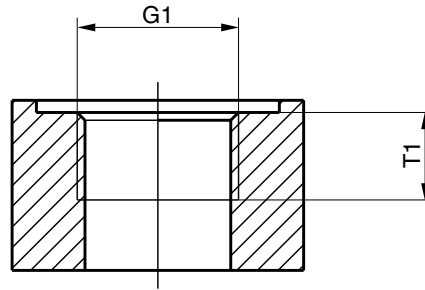
Code D

SAE straight thread



Code E

BSP - thread



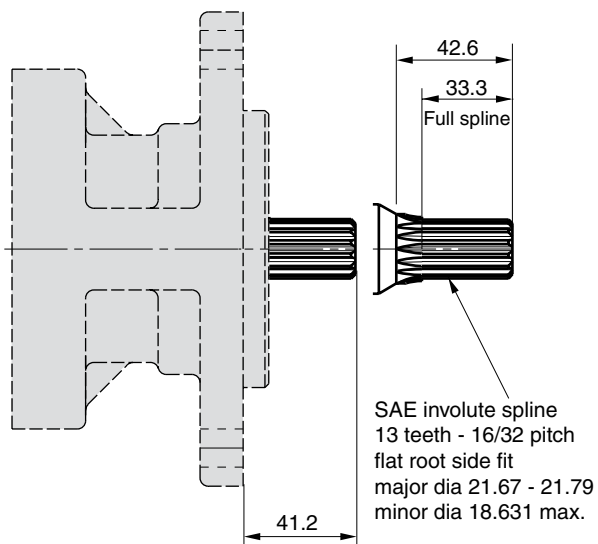
RPGP/RPGM 640

Code	G1	T1
	Thread	Dimensions
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
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

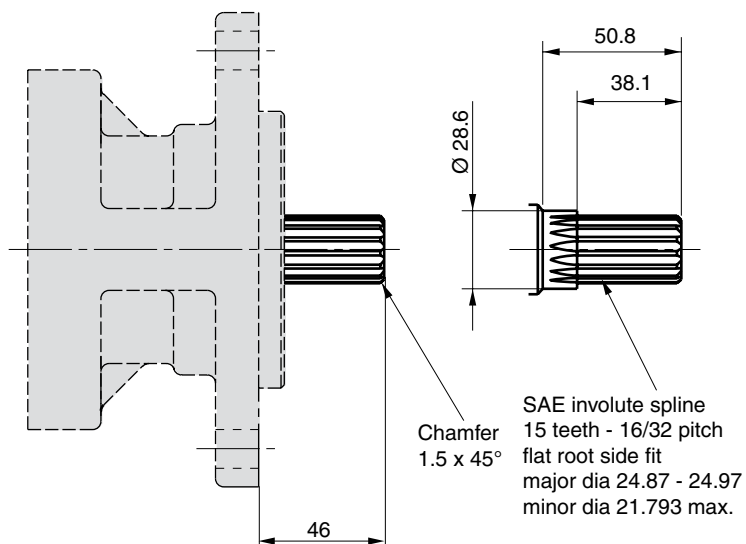
Drive shaft options

RPGP/RPGM 640 Drive Shaft

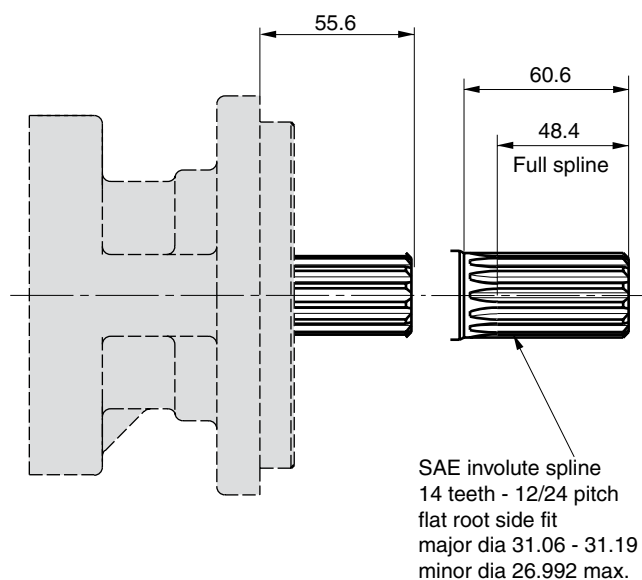
Code D1



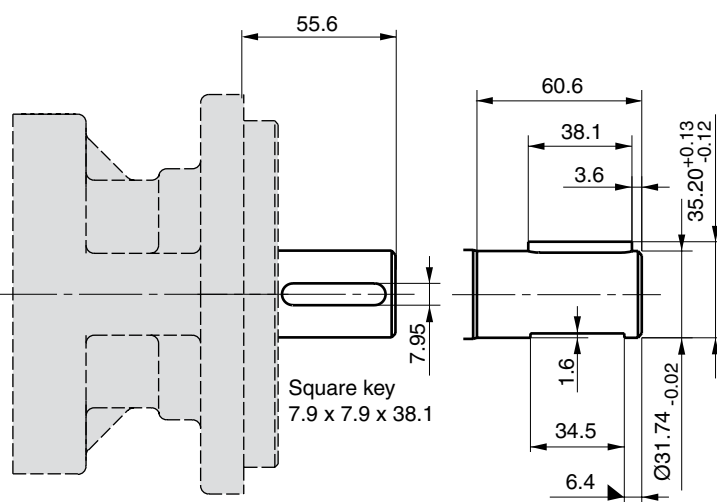
Code E1



Code E4



Code N1



Shaft loads RPPG/PGM500

Code	Description	Type	Torque rating [Nm]			
			RPPG 502	RPPG 505	RPPG/PGM511	RPPG 517
H1	Ø10.0, 3.0 key, no thread, 36L	parallel	30	—	—	—
P2	Ø9.95, 8.8L, 2.4 key, M6	taper 1:8	30	—	—	—
V1	5 x 6.5 long shaft w/o coupling	tang drive	20	—	—	—
A1	9T, 16/32DP, 32L, SAE "A"	splined	—	108	—	—
J1	Ø12.7, 3.2 key, no thread, 38L	parallel	—	43	—	—
K1	Ø15.88, 4.0 key, no thread, 32L, SAE "A"	parallel	—	85	—	—
Q2	Ø14.25, 5.5L, 3.0 key, M10x1	taper 1:8	—	68	—	—
A1	9T, 16/32DP, 32L, SAE "A"	splined	—	—	86	—
C1	11T, 16/32DP, 38.2L, SAE 19-4	splined	—	—	166	—
F5	B8x32x36 DIN ISO 14 (similar to DIN 5462)	splined	—	—	166	—
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	Ø20.0, 9.0L, 4.0 key, M14x1.5	taper 1:5	—	—	110	—
D1	13T, 16/32DP, 41.2L, SAE "B"	splined	—	—	—	345
E1	15T, 16/32DP, 46.2L, SAE "B-B"	splined	—	—	—	530
M1	Ø22.2, 6.3 key, no thread, 41.2L, SAE "B"	parallel	—	—	—	251
M2	Ø25.4, 6.3 key, no thread, 46L, SAE "B-B"	parallel	—	—	—	395
T1	Ø21.59, 11.2L, 4.0 key, M14x1.5	taper 1:8	—	—	—	250
	Connecting shaft for multiple units		20	36	110	228

Shaft loads RPPG/PGM600

Code	Description	Type	Torque rating]		
			620 [Nm]	625 [Nm]	640 [Nm]
D1	13T, 16/32 DP, 41.2L, SAE "B"	splined	272	272	328
E1	15T, 16/32 DP, 46.0L, SAE "B-B"	splined	460	460	503
E4	14T, 12/24 DP, 55.6L, SAE "C"	splined	—	(272)	960
M3	Ø25.4, 6.3 KEY, M8, 46L, SAE "B-B"	parallel	325	325	—
T1	Ø21.59, 11.2L, 4.0key, M14x1.5	tapered 1:8	218	218	—
T2	Ø25.0, 12.0L, 5.0 KEY, M16x1.5	taper 1:5	301	—	—
N1	1 1/4" SAE-C	keyed	—	—	678
	connecting shaft		228	228	407

Formula to calculate shaft load

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

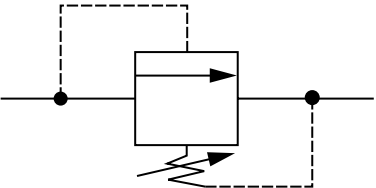
Hydraulic fluids

Type	Fluid composition	Max. working pressure [bar]	Max. speed [min-1]	Temperature	Seal
Hydraulic fluid	Mineral oil based on hydraulic fluid acc. to ISO/DIN	See table drawings	See table drawings	-15 ... +80 °C -15 ... +120 °C	NBR FPM
HFB	Water-in-oil emulsion 40/60	140	1500	+2 ... +65 °C	NBR
HFC *	Water-glycol 40/60	140	1500	-15 ... +65 °C	NBR
HFD	Phosphate ester	140	1500	-10 ... +80 °C	FPM

* to be used with cast iron pumps/motors only

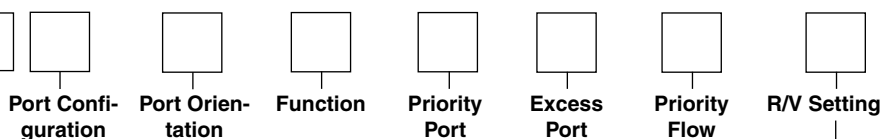
Parker does not give an explicit recommendation for certain fluid product, fluid brand or fluid manufacturer
The risk of using different kind of fluids has to be taken by the customer.

Pressure relief valve / adjustable internal vent

RPGP 502 RPGP 505 RPGP 511				RPGP 517 RPGP 620 RPGP 625
CODE	Pressure bar		CODE	Pressure bar
RDAA	10		RDPA	10
RDAB	20		RDPB	20
RDAC	30		RDPC	30
RDAD	40		RDPD	40
RDAE	50		RDPE	50
RDAF	60		RDPF	60
RDAG	70		RDPG	70
RDAH	80		RDPH	80
RDAJ	90		RDPJ	90
RDAK	100		RDPK	100
RDAL	110		RDPL	110
RDAM	120		RDPM	120
RDAN	130		RDPN	130
RDAP	140		RDPP	140
RDAQ	150		RDPQ	150
RDAR	160		RDPR	160
RDAS	170		RDPS	170
RDAT	180		RDPT	180
RDAU	190		RDPU	190
RDV	200		RDPV	200
RDAW	210		RDPW	210
RDAX	220		RDPX	220
RDY	230		RDPY	230
RDAZ	240		RDPZ	240



Priority Flow Divider

1VP- / CVP100-

Code	Port Configuration
A	End Priority, End Excess
B	Side Priority, Side Excess
C	End Priority, Side Excess
D	Side Priority, End Excess
E	Double Side Ported

Code	Port Orientation
A	Priority Port on Pump Inlet Side
B	Priority Port on Pump Outlet Side

Code	Function
A	Priority Flow Divider
B	PFD with Full Flow R/V
C	PFD with Pilot R/V

Code	Priority Port
J1	3/4-16UNF
J8	9/16-18UNF
T1	3/8 BSP

other on request

Code	Excess Port
J2	7/8-14UNF
J3	1-1/16-12UN
T2	1/2 BSP
T4	3/4 BSP

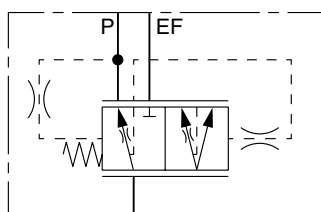
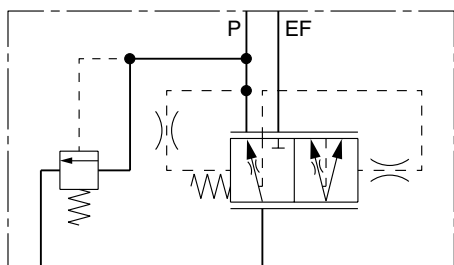
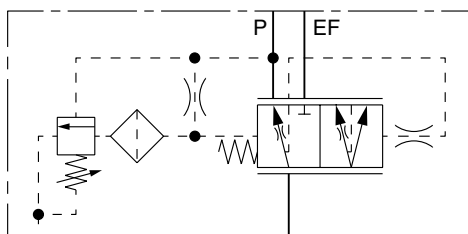
other on request

Code	R/V Setting
00	No Relief Valve
A05	Adjustable 40 - 120 bar
A15	Adjustable 130 - 250 bar
05	50 bar
08	80 bar
10	100 bar
11	110 bar
12	120 bar
13	130 bar
14	140 bar
15	150 bar
16	160 bar
17	170 bar
18	180 bar
20	200 bar

other on request

Code	Priority Flow
08	8 lpm
11	11 lpm
15	15 lpm
19	19 lpm
23	23 lpm
30	30 lpm
38	38 lpm

other on request

Priority Flow Divider
Function "A"Priority Flow Divider With Full Flow R/V
Function "B"Priority Flow Divider With Pilot R/V
Function "C"

Priority Flow Divider

Comments:

The Priority Flow Divider provides a constant and specified flow for power steering or other priority functions.

The balance of flow produced by the pump is available from the EF port for additional functions such as open center directional control valves, fan drives , etc. It can also be fitted with a pressure relief valve

Variations for RPGP 511 / 517 / 620 / 625 / 640

without priority relief valve (Function "A")

with full flow priority relief valve (Function "B")

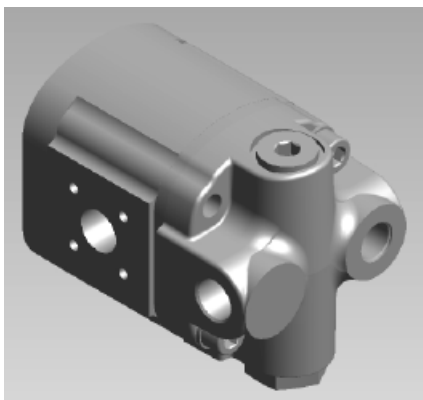
with pilot priority relief valve (Function "C")

Pressure Range	
P-port Maximum	230 bar
EF-port Maximum	250 bar

Maximum Flows	
for RPGP 511	
P-port	32 lpm
EF-port	70 lpm
max. input flow	70 lpm
for RPGP 517 / 620 / 625 / 640	
P-port	45 lpm
EF-port	100 lpm
max. input flow	100 lpm



Port Configuration „A“
Port Orientation „B“



Port Configuration „D“
Port Orientation „A“



Port Configuration „C“
Port Orientation „B“

Side Mounted Priority Flow Divider (Load Sense or Fixed Flow)
Comments:

Priority Flow Dividers can also be direct mounted to the pressure port to provide a constant and specified flow for power steering or other priority functions.

Variations for RPGP 511 / 517 / 620 / 625 / 640

without priority relief valve (Function "A")

with full flow priority relief valve (Function "B")

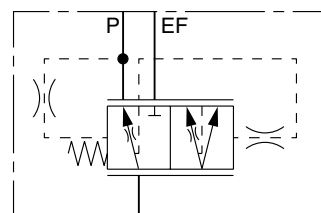
with pilot priority relief valve (Function "C")

Note: relief valve in the steering unit is required.

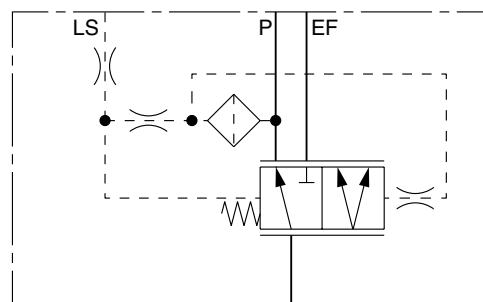
control pressure settings and priority flow settings on request

Pressure Range	
for RPGP 511 / 517	
P-port Maximum	230 bar
EF-port Maximum	250 bar
for RPGP 517 / 620 / 625 / 640	
P-port Maximum	250 bar
EF-port Maximum	310 bar

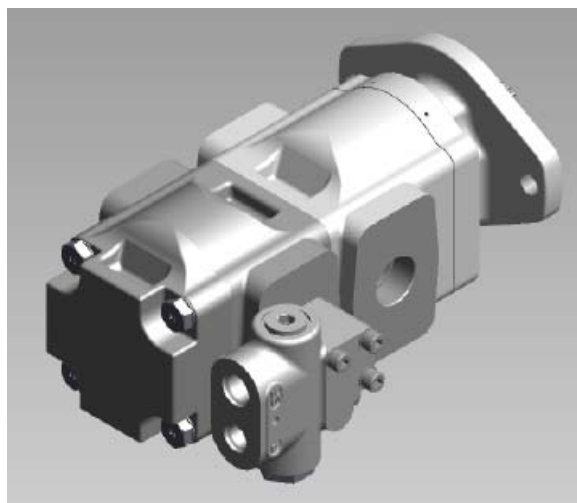
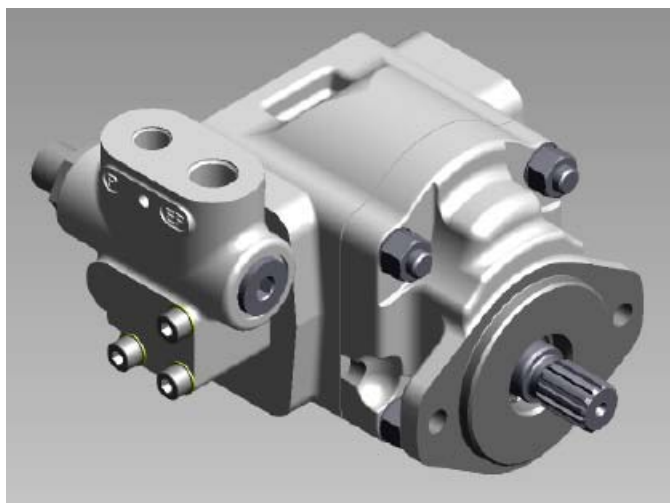
Maximum Flows	
for RPGP 511	
P-port	32 lpm
max. input flow	80 lpm
for RPGP 517 / 620 / 625 / 640	
P-port	45 lpm
max. input flow	160 lpm



Priority Flow Divider
Function "A"



Load Sensing Priority Valve
with Dynamic Load Sensing Signal
Function "F"



Load Sensing Priority Valve

1VP- / CVP100-Port Confi-
gurationPort Orien-
tation

Function

Priority
PortExcess
Port

LS Port

R/V Setting

Control
Setting LS

Code	Port Configuration
A	End Priority, End Excess
B	Side Priority, Side Excess
C	End Priority, Side Excess
D	Side Priority, End Excess
E	Double Side Ported

Code	Port Orientation
A	Priority Port on Pump Inlet Side
B	Priority Port on Pump Outlet Side

Code	Function
D	LSPV, Static LS
E	LSPV, Static LS with Pilot R/V
F	LSPV, Dynamic LS
G	LSPV, Dynamic LS with Pilot R/V

Code	Priority Port
J1	3/4-16UNF
J8	9/16-18UNF
T1	3/8 BSP

other on request

Code	Excess Port
J2	7/8-14UNF
J3	1-1/16-12UN
T2	1/2 BSP
T4	3/4 BSP

other on request

Code	LS Port
X2	7/16- 20UNF female
Y1	1/4 BSP male
Y3	1/4 BSP
BX2	7/16- 20UNF Body Port

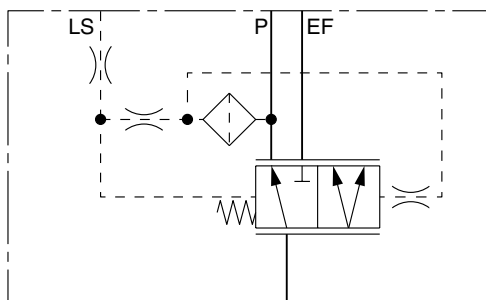
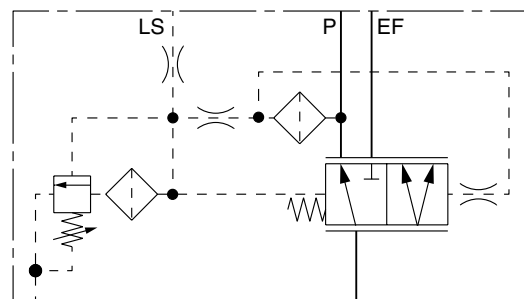
other on request

Code	Control Setting LS
052	5.2 bar static
056	5.6 bar dynamic
062	6.2 bar dynamic
063	6.3 bar static
070	7.0 bar static / dynamic
090	9.0 bar dynamic
093	9.3 bar static
104	10.4 bar dynamic
126	12.6 bar dynamic
140	14.0 bar dynamic
186	18.6 bar dynamic

other on request

Code	R/V Setting
00	No Relief Valve
A05	Adjustable 40 - 120 bar
A15	Adjustable 130 - 250 bar
05	50 bar
08	80 bar
10	100 bar
11	110 bar
12	120 bar
13	130 bar
14	140 bar
15	150 bar
16	160 bar
17	170 bar
18	180 bar
20	200 bar

other on request

Load Sensing Priority Valve
with Dynamic Load Sensing Signal
Function "F"Load Sensing Priority Valve
with Dynamic Load Sensing Signal
Function "G"

Load Sensing Priority Valve

Comments:

The Load sense Priority Valve provides priority flow on demand, typically for LS power steering: The balance of the flow produced by the pump is available from the EF port for additional functions such as open center directional control valves, fan drives , etc. When the power steering is idle, full pump flow is available for these functions

The selection of pilot relief and static or dynamic signal is dependent on the characteristics of the selected steering unit.

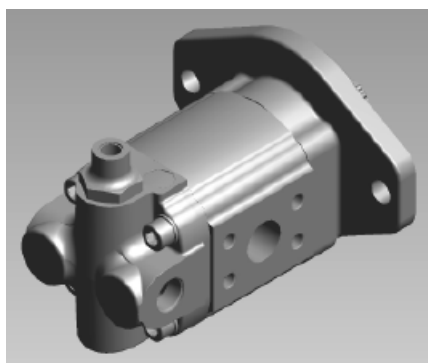
Variations for RPGP 511 / 517 / 620 / 625 / 640

without pilot relief, dynamic LS signal (Function "G") / with pilot relief,

dynamic LS signal (Function "F") without pilot relief, static LS signal / with pilot relief, static LS signal

Pressure Range	
P-port Maximum	230 bar
EF-port Maximum	equal to max. rating of pump

Maximum Flows	
for RPGP 511	
P-port	32 lpm
EF-port	70 lpm
max. input flow	70 lpm
for RPGP 517 / 620 / 640	
P-port	45 lpm
EF-port	100 lpm
max. input flow	100 lpm



Port Configuration „B“
Port Orientation „A“



Port Configuration „D“
Port Orientation „B“



Port Configuration „E“
Port Orientation „A“

Single Pressure Relief Valve

Comments:

Integral relief valve to protect the motor.

Motors with this valve may be applied in series with relief valve providing a limit to the pressure differential, and hence, the output torque.

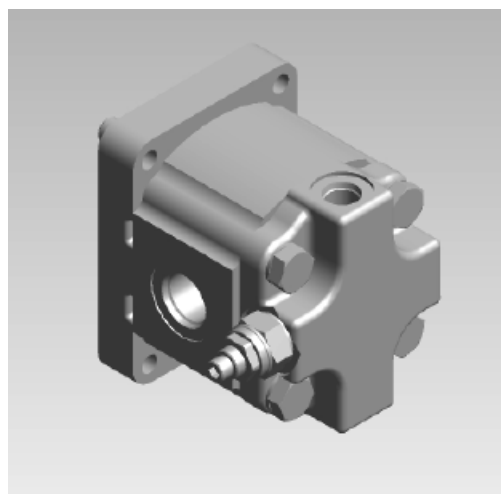
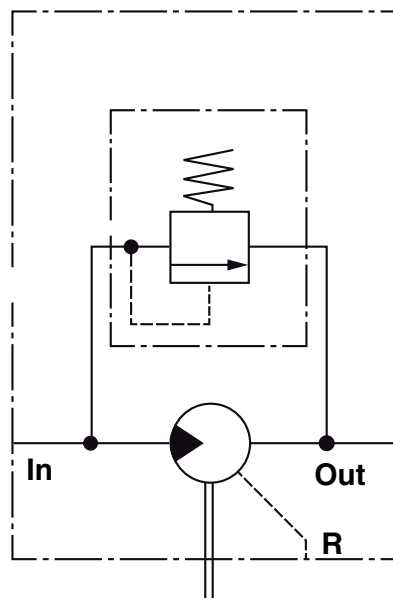
Variations for RPGM 511 / RPGM 620 / RPGM 640

adjustable, with internal or external drain

Applications

Fan Drives, Mower Blade Drives, Compressor Drives and Water Pump Drives

Motor Range			
Ranges	RPGM 511	RPGM 620	RPGM 640 .
Maximum Flow	75 lpm	113 lpm	113 lpm
Pressure Range	25-250 bar	25-280 bar	25-310 bar



Single Pressure Relief Valve with Anti-Cavitation

Comments:

Motors fitted with this relief valve may be applied in series with relief valve providing a limit to the pressure differential, and hence, the output torque.

The check valve allows the motor and driven load to “spool down” when the fluid supply is shut off or reduced due to engine speed fluctuations.

In series operation, the check valve permits the motor to come to a controlled stop should the outlet flow be suddenly blocked.

This valve reduces the risk of damaging the motor or blowing a hydraulic line.

Motors fitted with this valve are available with side or rear facing ports.

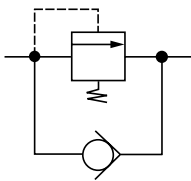
Variations for RPGM 511 / RPGM 620 / RPGM 640

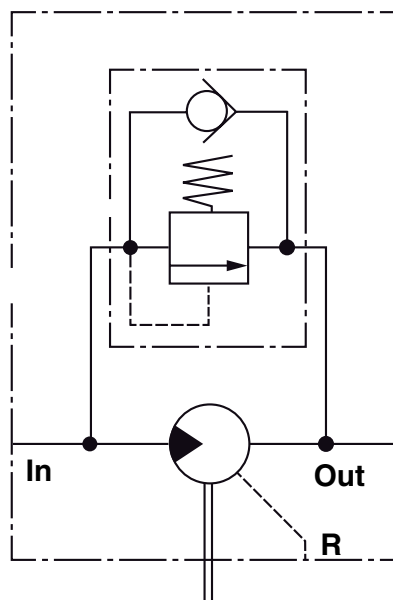
non-adjustable, with reverse flow check with internal or external drain

Applications

Fan Drives, Mower Blade Drives, Compressor Drives and Water Pump Drives

Motor Range RPGM 511 / RPGM 620 / RPGM 640	
Pressure Range	35-250 bar
Maximum Flow	100 lpm

Motor Range PGM511 / RPGM 620 / RPGM 640	
	
CODE	Pressure bar
RMAF	50
RMAP	90
RMAR	100
RMAV	120
RMBB	150
RMBD	160
RMBK	190
RMBP	210
RMBT	230



Cross Port Pressure Relief Valves

Comments:

Integral cross port relief to protect motor and to limit torque in both directions of rotation.

Motors fitted with this relief valve cover may be operated in series with other motors downstream when using external case drain.

Limited change to the factory set is possible .

Side ports are standard in order to minimize overall length.

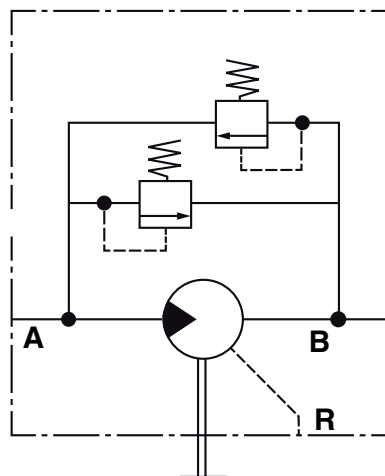
Variations for RPGM 511 / RPGM 620 / RPGM 640

adjustable with internal and external drain

Applications

Fan Drives, Mower Reel Drives, and all low-medium power reversible drives

Motor Range			
Ranges	RPGM 511	RPGM 620	RPGM 640 .
Maximum Flow	75 lpm	113 lpm	113 lpm
Pressure Range	25-250 bar	25-280 bar	25-310 bar



Cross Port Pressure Relief Valves with Anti-Cavitation

Comments:

Motors fitted this relief valve may be applied in series or in hydraulic transmission with relief valve providing a limit to the pressure differential, and hence, the output torque.

The check valves allow flow to return to the inlet of the motor to prevent cavitation.

Motor available with side ports, rear ports or combination of side and rear ports.

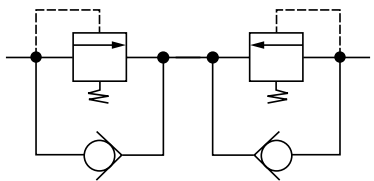
Variations for RPGM 511 / RPGM 620 / RPGM 640

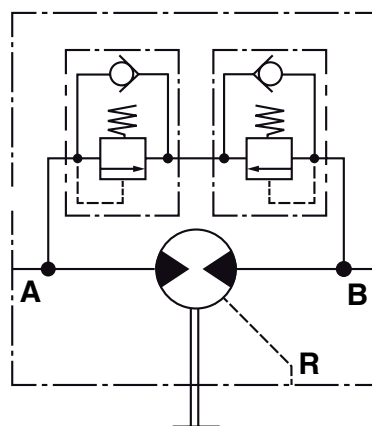
non-adjustable with internal or external drain

Applications

Fan Drives, Mower Blade Drives, Water Pump Drives and reversible hydrostatic transmissions

Motor Range RPGM 511 / RPGM 620 / RPGM 640	
Pressure Range	35-250 bar
Maximum Flow	100 lpm

Motor Range RPGM 511 / RPGM 620 / PG M640	
	
CODE	Pressure bar
RMCF	50
RMCP	90
RMCR	100
RMCV	120
RMDB	150
RMDD	160
RMDK	190
RMDP	210
RMDT	230



Cross Port Pressure Relief Valves with Anti-Cavitation + Check Valves

Comments:

Motors with cross-port relief valve and anti-cavitation check valves in case drain passages are suitable for open-circuit applications with closed center valves and hydrostatic transmissions. The check valves allow flow to return to the inlet of the motor to prevent cavitation.

For winches, make up flow at low pressure is introduced at the case drain port.

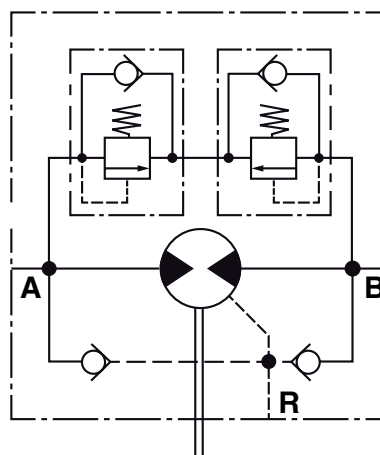
Variations for RPGM 511 / RPGM 620 / RPGM 640

non-adjustable, with reverse flow check with internal or external drain

Applications

Fan Drives, Mower Blade Drives, Water Pump Drives and reversible hydrostatic transmissions, vibration drives on vibratory rollers and winches

Motor Range RPGM 511 / RPGM 620 / RPGM 640	
Pressure Range	25-250 bar
Maximum Flow	100 lpm



Solenoid Proportional Pressure Relief Valve

Comments:

In a fan drive circuit fan speed is adjusted by providing a varying Pulse Width Modulated electrical current signal to the proportional relief valve which controls the flow to the fan motor. The proportional valve is typically a normal closed type to assure failsafe full fan speed in case of a lost signal.

The anti-cavitation check valve allows the motor to spin freely when the fan is powered down.

Variations for RPGM 511 / RPGM 620 / RPGM 640

normally open valves, increasing pressure with increasing current

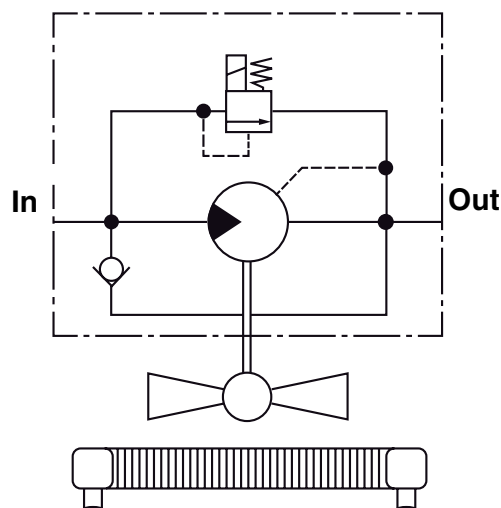
normally closed valves, decreasing pressure with increasing current with internal or tank return

Applications

Fan Drives

Motor Range			
Ranges	RPGM 511	RPGM 620	RPGM 640 .
Maximum Flow	95 lpm	95 lpm	95 lpm

Pressure Range	
Pressure Range	standby pressure differential: 5 bar max. : equal to the max. pressure rating of the motor
Standard Pressure Relief Settings	100 / 210 / 350 bar other's on request
Termination	on request



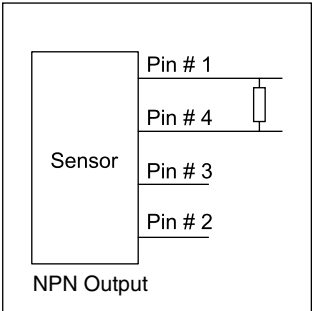
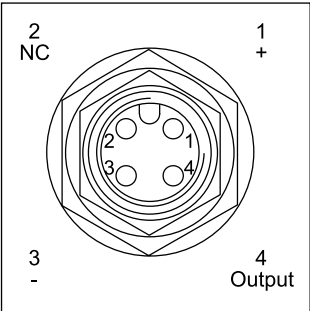
Valve options

Speed Sensor

This rugged, weather resistant speed sensor is a Hall effect device. When externally powered, 30 square wave digital pulses per output shaft revolution are produced. By signal multiplication, 60 pulses per revolution can be obtained. The installation of this economical sensor does not affect the torque or side load capability of the motor into which it is installed. The sensor has reverse polarity protection but no short circuit protection.



Speed sensor data	
Operating voltage range	4.5...24 V (DC)
Operating temperature	-30°...100° C
Operating frequency range	0...10 KHZ
Sink current	0...20 mA (max.)
Connection	4 Pin (12mm) DIN Standard



Formula pull-up resistor value		(0.25 Watt, 5% tol.)	
Courant/Tensione	4.5...24 V	= Resistor	k Ohm
Sink current	0...20 mA		
State: off (95% +V)			
+ V		State: on (max. 0.4 V DC)	
0 V			

Standard Seal Kits for pumps/motors 500 + 600

Model Code	Pump Series	TDN
PGP502	Single	391 1832 810
	Tandem	
	Single (FPM)	391 1832 811
PGP505	Single	391 1822 101
	Tandem	391 1822 102
PGP511	Single	8611-023-00N
	Single (Large size shaft)	8611-023-Q1N
	Single (FPM)	8611-023-00V
	Triple (FPM unsealed)	391 1832 770
	Tandem	8677-023-0NE
	Tandem rear	8677-023-000
	Triple PGP511	8832-023-0NX
	Tandem (sealed section)	3911832766
("S8F4")	Pump with outboard bearing	3911832133
PGP511S	Split gear	8801-023-00N
	Split gear (Large size sh.)	8801-023-Q1N
	Split gear (FPM)	8801-023-00V
	Split gear tandem rear	8850-023-000
PGP517	Single	391 1822 071
	Single / Tandem FPM	391 1842 244
	Tandem	391 1822 072
	Triple	391 1822 073
	FPM 517/517/511/511	391 1832 772
PGP517 / PGP505	Tandem	391 1822 254
PGP517 / PGP511	Tandem	391 1822 531

SERIES 600	Pump Series	TDN
PGP620	Single	8682-023-00N
	Tandem rear	8833-023-000
	Tandem	4070H-023-000
	Tandem (FPM)	3911822474
	Single (FPM)	8682-023-00V
	Triple Pump	3911832610
PGP620	...T2K5...	3911832635
PGP625	Single (M)	3911842351
PGP620/PGP511	Tandem	8766-023-00N
PGP620/PGP511	Tandem (FPM)	8766-023-00V
PGP625/PGP511	Tandem (M)	3911842352
PGP620/PGP511/511	Triple (sealed)	3911832720
PGP620/620/PGP511	Triple (FPM)	3911832716
PGP640	Single	3911832598
PGP640	Single FPM	3911832611
PGP640	Tandem (M)	3911832696
PGP640/PGP511	Tandem (M)	3911832798
PGP640/620/620	Triple Pump	3911832468

Model Code	Motor Series	TDN
PGM502	Motor BI-ROT	391 1832 812
PGM505	Motor UNI-ROT	391 1822 101
	Motor BI-ROT	391 1801 304
M11 + Bearing	Motor BI-ROT + Bearing	3911801340
PGM511	Motor (Bi + Uni-Rot.)	8301-023-00N
	Motor(large size shaft)	8301-023-Q1M
("S2F3", "S8F4")	Motor with outboard bearing	3911832704
	Motor with plain bearing	8772-023-00S
	Motor FPM	8301-023-00M
	Motor FPM (large shaft)	3911832086
	Motor FPM with bearing	3911832087
PGM517	Motor UNI-ROT	3911801335
	Motor UNI-ROT FPM	3911801410
	Motor BI-ROT	3911801336

Model Code	Motor Series	TDN
PGM620	Motor (Bi + Uni-Rot.)	8782-023-00N
	Motor (Bi + Uni-Rot.)-FPM	8782-023-00V
PGM640	Motor (Bi+Uni-Rotat.)	3911801451

Series RPGP 640 Single Unit

RPG P	640	A	0550	C	E4	A4	N	T5	T3	B1	B1
RPGP	Gear Design / Type		PARKER Gear Pump								
640	Series										
A	Unit		Single Unit								
0550	Displacement		55.0 cm ³ /rev.								
C	Rotation Direction		Clockwise								
E4	Shaft		SAE „C“ Spline, 14T, 16/32 DP								
A4	Flange		Mounting Flange SAE 4 bolt „C“								
N	Shaft Seal		Shaft Seal NBR								
T5	Side Suction Port		SAE Metric Split Flange 1 1/2"								
T3	Side Pressure Port		SAE Metric Split Flange 1"								
B1	Rear Suction Port		No Port								
B1	Rear Suction Port		No Port								

Series RPGP 517 Single Unit

RPG P	517	A	0230	A	D1	H3	N	L3	L2	B1	B1
RPGP	Gear Design / Type		PARKER Gear Pump								
517	Series										
A	Unit		Single Unit								
0230	Displacement		23.0 cm ³ /rev.								
A	Rotation Direction		Counter Clockwise								
D1	Shaft		SAE „B“ Spline, 13T, 16/32 DP								
H3	Flange		Mounting Flange SAE 2 bolt „B“								
N	Shaft Seal		Shaft Seal NBR								
L3	Side Suction Port		Ø27 Diamond Flange								
L2	Side Pressure Port		Ø19 Diamond Flange								
B1	Rear Suction Port		No Port								
B1	Rear Pressure Port		No Port								

Series RPGP 620 Single Unit

RPG P	620	A	0330	C	D1	H3	N	D6	D5	B1	B1
RPGP	Gear Design / Type		PARKER Gear Pump								
620	Series										
A	Unit		Single Unit								
0330	Displacement		33.0 cm ³ /rev.								
C	Rotation Direction		Clockwise								
D1	Shaft		SAE „B“ Spline, 13T, 16/32 DP								
H3	Flange		Mounting Flange SAE 2 bolt „B“								
N	Shaft Seal		Shaft Seal NBR								
D6	Side Suction Port		1 5/16 - 12 UN Thread								
D5	Side Pressure Port		1 1/16 - 12 UN Thread								
B1	Rear Suction Port		No Port								
B1	Rear Pressure Port		No Port								

Series RPGP 511 Tandem Unit

RPG P	511	B	0100	A	C1	H2	N	J7	H3	S - 511	A	0110	X	J7	J5	B1	B1
RPGP	Gear Design / Type		PARKER Gear Pump														
511	Series																
B	Unit		Single Unit														
0100	Displacement		10.0 cm ³ /rev.														
A	Rotation Direction		Counter Clockwise														
C1	Drive shaft		SAE 19-4 Spline 11T, 16/32 DP														
H2	Flange		Mounting Flange SAE 2 bolt „A“														
N	Shaft Seal		Shaft Seal NBR														
j7	Side Suction Port		Ø - 20 mm European Flange														
J5	Side Pressure Port		Ø - 15 mm European Flange														
S	Section Connection		Separate Inlets														
511	Series Second Section																
A	Unit		Single Unit														
110	Displacement		11.0 cm ³ /rev.														
X	Shaft Seal		No Seal														
J7	Side Suction Port		Ø - 20 mm European Flange														
J5	Side Pressure Port		Ø - 15 mm European Flange														
B1	Rear Suction Port		No Port														
B1	Rear Pressure Port		No Port														