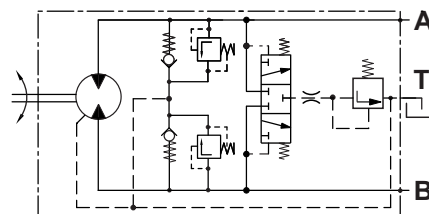
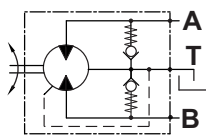
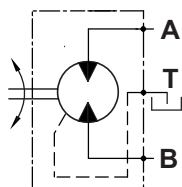




HIDRÁULICA
ROGIMAR

Hydraulic Motors Type MAP62

Heavy Duty Axial Piston Motors Fixed Displacement



open drain line is always required

APPLICATION

- » Agricultural machines
- » Road building machines
- » Mining machinery
- » Food industry machines
- » Swing drives
- » Hydraulic transmissions
- » Vibration machines
- » Fan drives
- » Special vehicles

OPTIONS

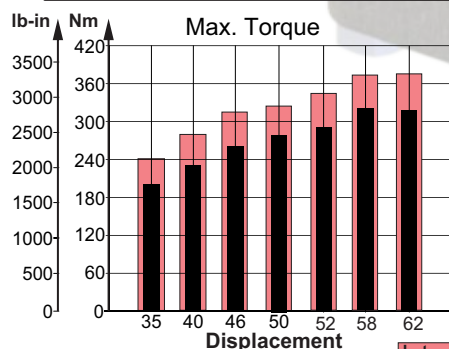
- » Port options
- » Shaft options
- » High pressure ports
- » Integrated valves

ADVANTAGES

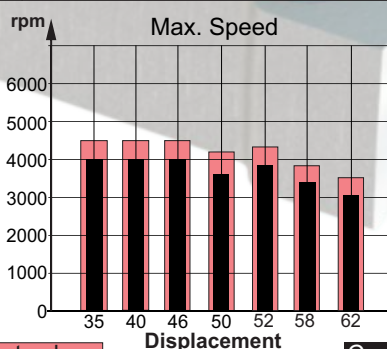
- » High starting torque
- » Smooth operation
- » Long service life
- » High power density

GENERAL

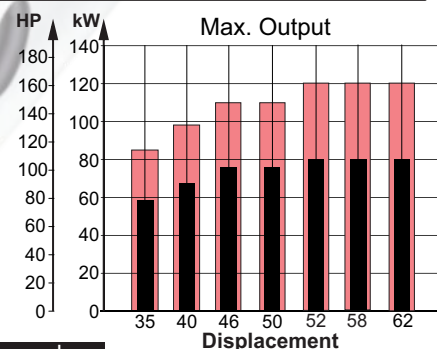
Displacement,	cm ³ /rev [in ³ /rev]	36.16÷62.4 [2.21÷3.81]
Max. Speed,	RPM	4000
Max. Torque,	Nm [lb-in]	320 [2832]
Max. Output,	kW [HP]	80 [107]
Max. Pressure Drop,	bar [PSI]	350 [5080]
Max. Oil Flow,	l/min [GPM]	200 [52.8]
Min. Speed,	RPM	500
Fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)	
Temperature Range,	°C [°F]	-40÷82 [-40÷180]
Optimal Viscosity Range,	mm ² /s [SUS]	12÷68 [66÷311]
Filtration	ISO code 18/16/13 (Min. recommended fluid filtration of 10 micron)	



Intermittent values



Continuous values

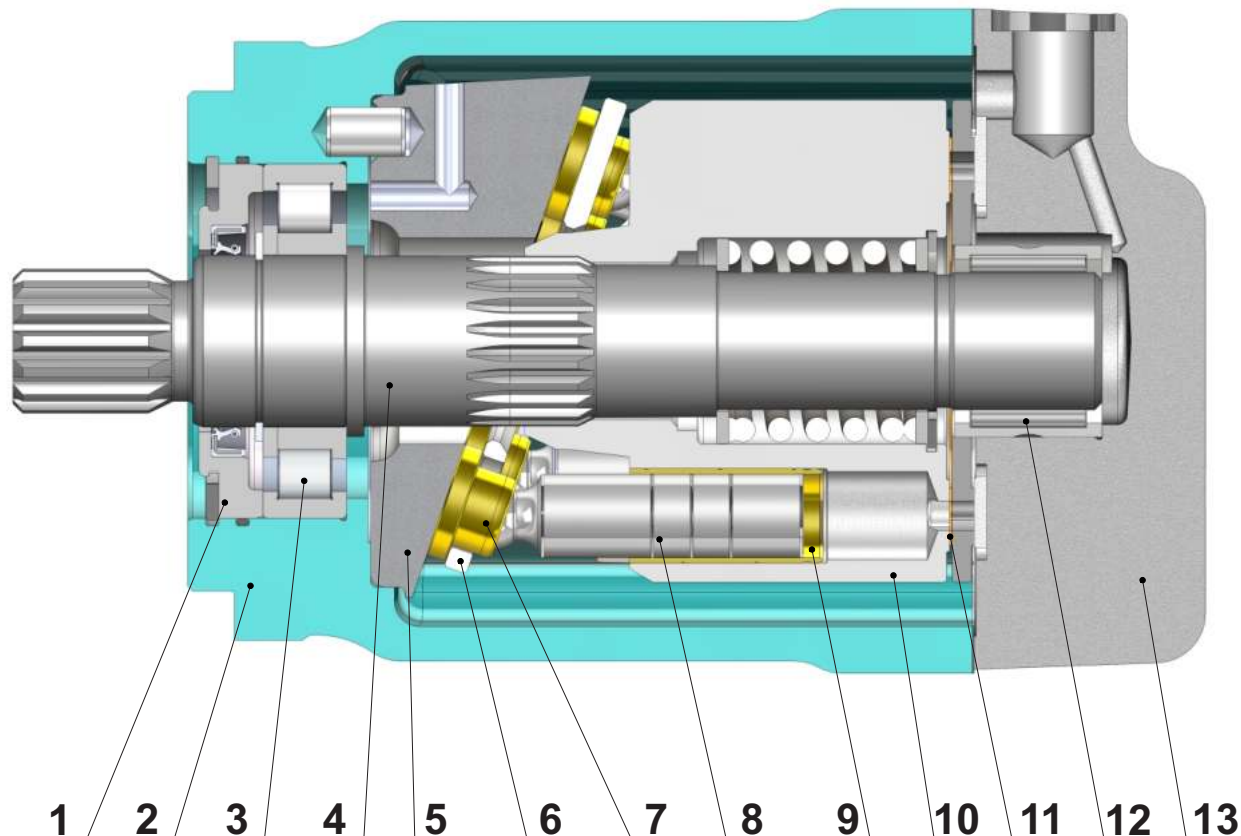


Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

SECTION VIEW



1. Front cover
2. Cast iron body
3. Robust radial - axial roller bearing
4. Hardened shaft
5. Solid swash plate
6. Retainer plate
7. Improved piston shoes
8. Improved pistons
9. Brass bushings
10. Hardened steel cylinder block
11. Bimetal distributor
12. Needle bearing
13. Solid end cover

The main advantages of the heavy duty design of the MAP motors over the typical swash plate motors are the higher starting torque and the higher total efficiency. In regards to these two parameters, under normal working mode, the MAP is comparable to the bent axis motors. The advantages of the MAP over the bent axis motors are the higher reliability and the lower degree of pulsation and vibration during operation.

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

SPECIFICATION DATA

Type		MAP 35	MAP 40	MAP 46	MAP 50	MAP 52	MAP 58	MAP 62
Displacement, cm ³ /rev [in ³ /rev]		36.16 [2.21]	41.59 [2.54]	47.13 [2.88]	49.94 [3.05]	51.95 [3.17]	58.8 [3.59]	62.4 [3.81]
Max. Speed, [RPM]	Cont.	4000	4000	4000	3600	3850	3398	3050
	Int.*	4500	4500	4500	4200	4330	3823	3500
Max. Torque,*** Nm [lb-in]	Cont.	202 [1789]	232 [2053]	263 [2328]	278 [2460]	290 [2566]	320 [2832]	318 [2814]
	Int.**	242 [2142]	278 [2460]	315 [2788]	326 [2885]	347 [3071]	375 [3320]	377 [3337]
Output, kW [HP]	Cont.	58 [78]	67 [90]	76 [102]	76 [102]	80 [107]	80 [107]	80 [107]
	Int.**	84 [113]	97 [130]	110 [148]	110 [148]	120 [161]	120 [161]	120 [161]
Max. Pressure, bar [PSI]	Cont.	350 [5080]	350 [5080]	350 [5080]	350 [5080]	350 [5080]	340 [4930]	320 [4640]
	Int.**	420 [6100]	420 [6100]	420 [6100]	410 [5950]	420 [6100]	400 [5800]	380 [5510]
	Peak	450 [6527]	450 [6527]	450 [6527]	450 [6527]	450 [6527]	440 [6381]	410 [5950]
Max. Oil Flow, l/min [GPM]	Cont.	145 [38.3]	167 [44.1]	189 [50]	180 [47.5]	200 [52.8]	200 [52.8]	190 [50]
	Int.*	163 [43.1]	187 [49.4]	212 [56]	210 [55.5]	225 [59.4]	225 [59.4]	215 [56.8]
Torque Constant ***** Nm/bar [lb-in/PSI]		0.52 [0.32]	0.6 [0.364]	0.68 [0.41]	0.72 [0.437]	0.75 [0.454]	0.85 [0.515]	0.9 [0.546]
Speed Constant ***** RPM/(l/min) [RPM/GPM]		26.3 [99.4]	22.84 [86.5]	20.2 [76.3]	19.02 [72]	18.28 [70.2]	16.13 [61.1]	15.23 [57.6]
Permissible Shaft Load max Axial**** N[lb]		Fa=2000 [450]						
max Radial**** N[lb]		Fr=3600 [810]				Fr=3200 [720]		
Min. Speed, [RPM]		500						
Max. Pressure in Drain Line,bar [PSI]		5 [70] open drain line is always required						
Weight, kg [lb]		17.65 [38.9] for SAE-B flange; 19.8 [43.7] for SAE-4C flange						

Peak pressure is the highest allowable pressure, may occur for max. 1% of every minute;

* Intermittent speed (flow): for pressure up to 150[2200] bar[PSI];

** Intermittent load: the permissible values may occur for max. 10% of motor lifetime;

*** Theoretical torque;

**** The calculated max values are based on the optimal direction of the forces Fr, Fa and optimal position of the shaft. ***** The constant values are used for calculation of torque and speed with motor efficiencies $\eta = 0.95$ and $\eta_{mh} = 0.9$.

1. The recommended output power for continuous operations should not be exceeded.

2. Recommended filtration as per ISO 4406 cleanliness code 18/16/13 or better. This filtration corresponds to SAE AS 4059 8A/7B/7C. Nominal filtration - 10 micron or better.

3. Recommended a premium quality, anti-wear type mineral based hydraulic oil, HLP(DIN51524) or HM(ISO6743/4).

4. Recommended oil viscosity - 12...68 cSt or see page 84.

5. Recommended maximum system operating temperature - 82°[180°] C[F].

6. To ensure optimum life of the motor, fill it up with fluid prior to load it and run with moderate load and speed for about 10-15 minutes.

Hint: Motor Torque = Torque Constant * Pressure Drop

Rotation Speed = Speed Constant * Oil Flow

The constant values are approximate. Motor torque and rotation speed for a particular project are depending on the real operating conditions. For more detailed calculations please see efficiencies on page 74 and formulas on page 85.

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

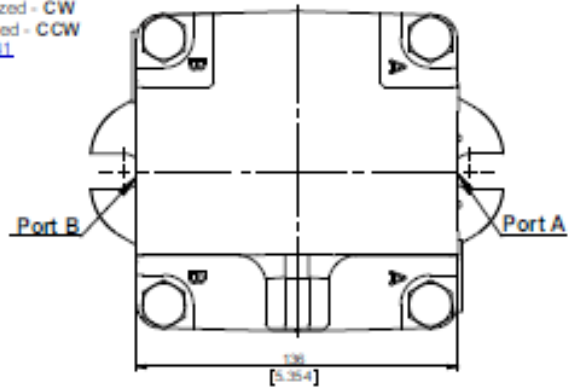
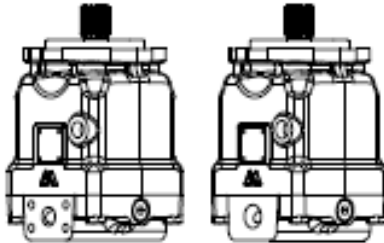


HIDRÁULICA
ROGIMAR

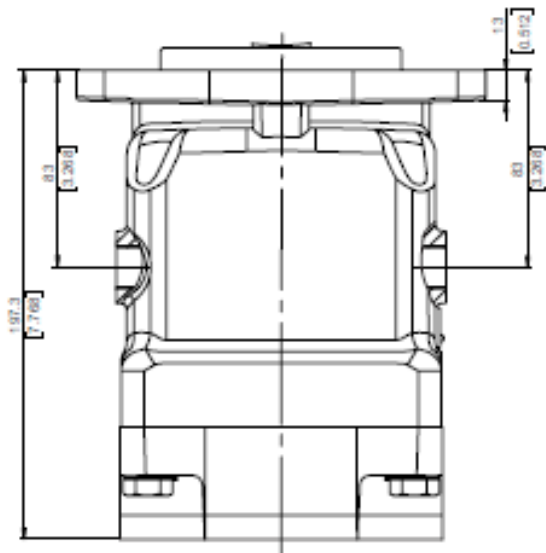
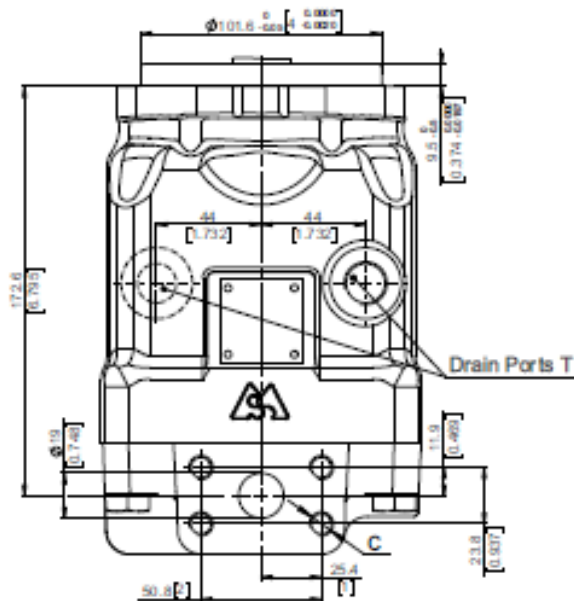
OVERALL DIMENSIONS AND PORTS

Side Ports - Default Mounting Flange - Type SAE-B

Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page 81

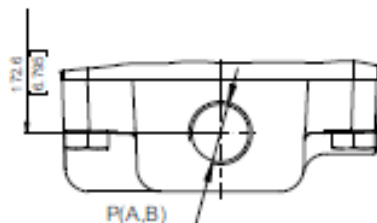


Side ports, port size default, 5 and 9

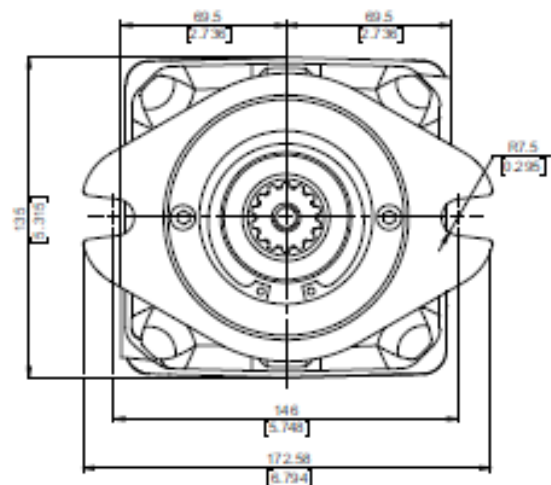


Port Size			
	2	3	4
P _{max}	2xISO 6162-2 DN19	2xSAE J518 3/4" PS16000	2xISO 6162-2 DN19
T	M18x1.5	7/8-14 UNF	G1/2
C	8xM10	8x3/8-16 UNC	8xM10

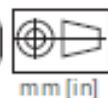
Side ports, port size 2, 3 and 4



Port Size			
	2	3	4
P _{max}	2xG 3/4	2xM27x2	2x1 1/2-12 UN
T	G 1/2	M18x1.5	7/8-14 UNF



Shaft Mounting
see page 26



mm [in]

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

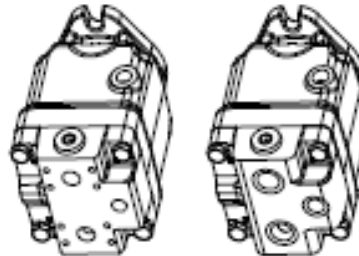


HIDRÁULICA
ROGIMAR

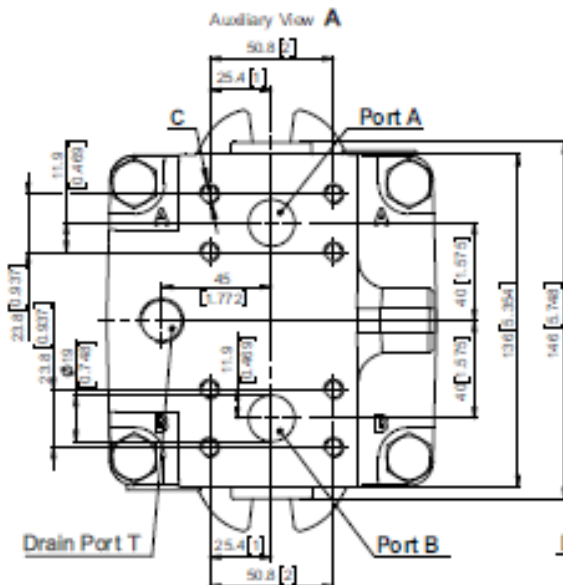
OVERALL DIMENSIONS AND PORTS

Rear Ports - Type E Mounting Flange - Type SAE-B

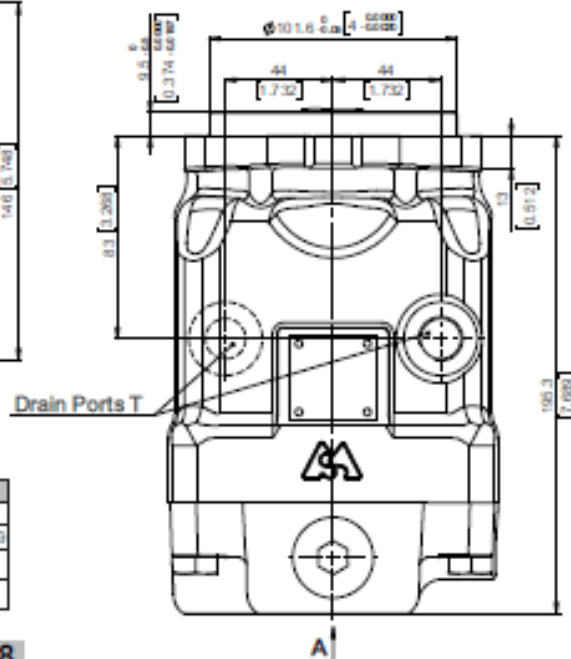
Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B I - CCW
see page 81



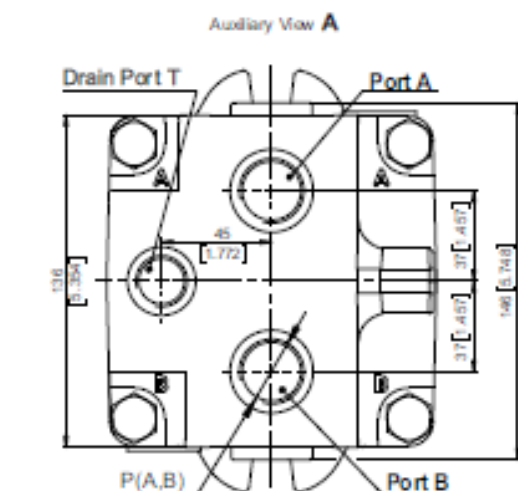
Rear ports E, port size default, 5 and 9



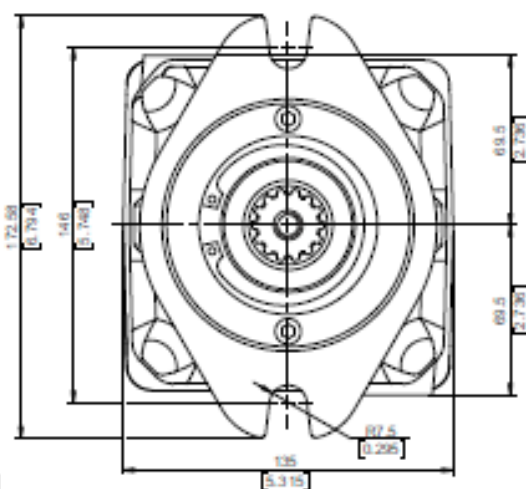
	Port Size		
	default	5	9
P _A	2xISO 6162-2 DN15	2xSAE J518 3/4" PS1600	2xISO 6162-2 DN19
T	M18x1.5	7/8-14 UNF	G1/2
C	8xM10	8x3/8-16 UNC	8xM10



Rear ports E, port size 2,3,4,6,7 and 8



	Port Size					
	2	3	4	6	7	8
P _A	2xG 3/4	2xM27	2x1 1/4-12 UN	2xG 1/2	2xM22	2x7/8-14 UNF
T	G 1/2	M18x1.5	7/8-14 UNF	G 1/2	M18x1.5	3/4-16 UNF



Shaft Mounting
see page 26

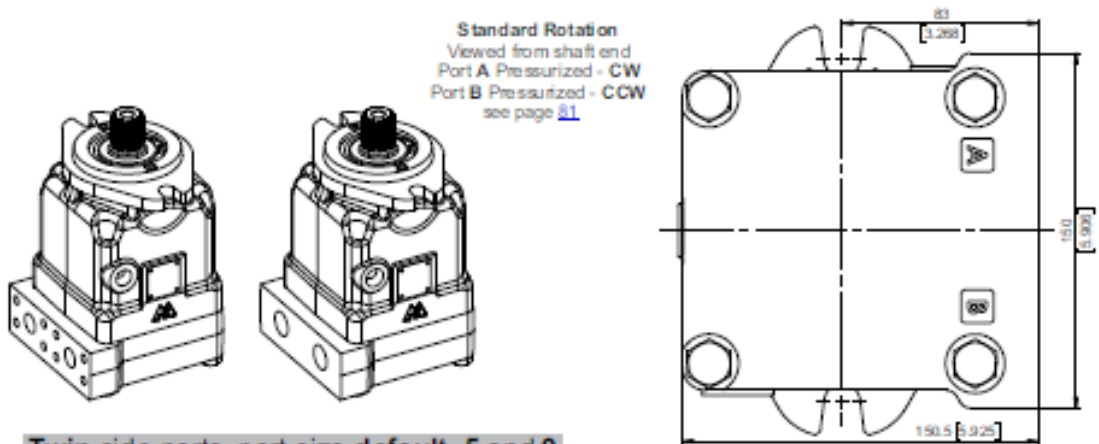


Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

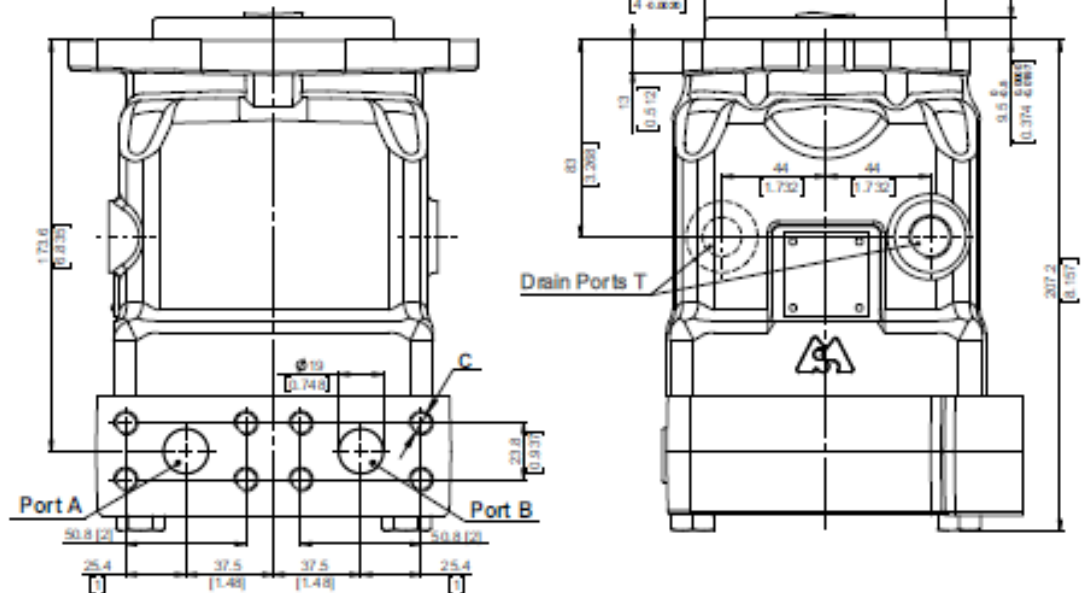


HIDRÁULICA
ROGIMAR

OVERALL DIMENSIONS AND PORTS

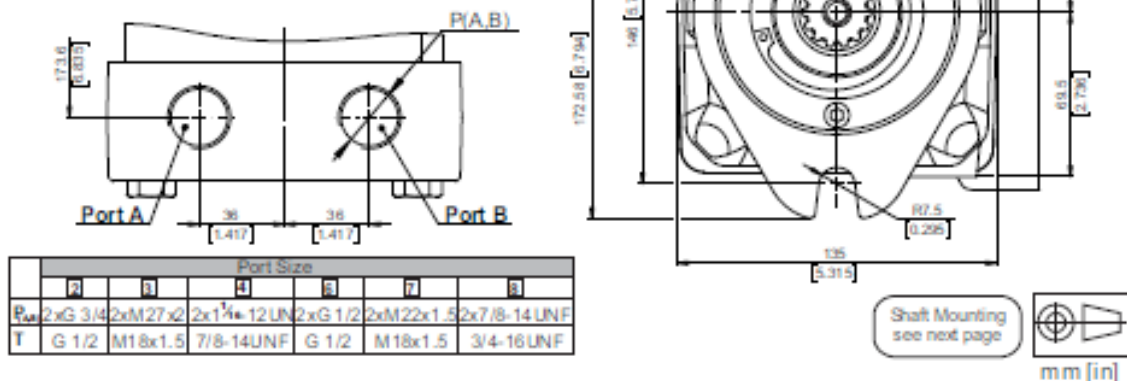


Twin side ports, port size default, 5 and 9



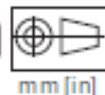
	Port Size		
	default	5	9
P _{max}	2x ISO 6162-2 DN15	2x SAE J518 3/4" PS1600	2x ISO 6162-2 DN19
T	M18x1.5	7/8-14 UNF	G 1/2
C	8xM10	8x3/8-16 UNC	8xM10

Twin side ports, port size 2,3,4,6,7 and 8



	Port Size					
	2	3	4	6	7	8
P _{max}	2x G 3/4	2x M27x2	2x 1 1/4-12 UN	2x G 1/2	2x M22x1.5	2x 7/8-14 UNF
T	G 1/2	M18x1.5	7/8-14 UNF	G 1/2	M18x1.5	3/4-16 UNF

Shaft Mounting
see next page



mm [in]

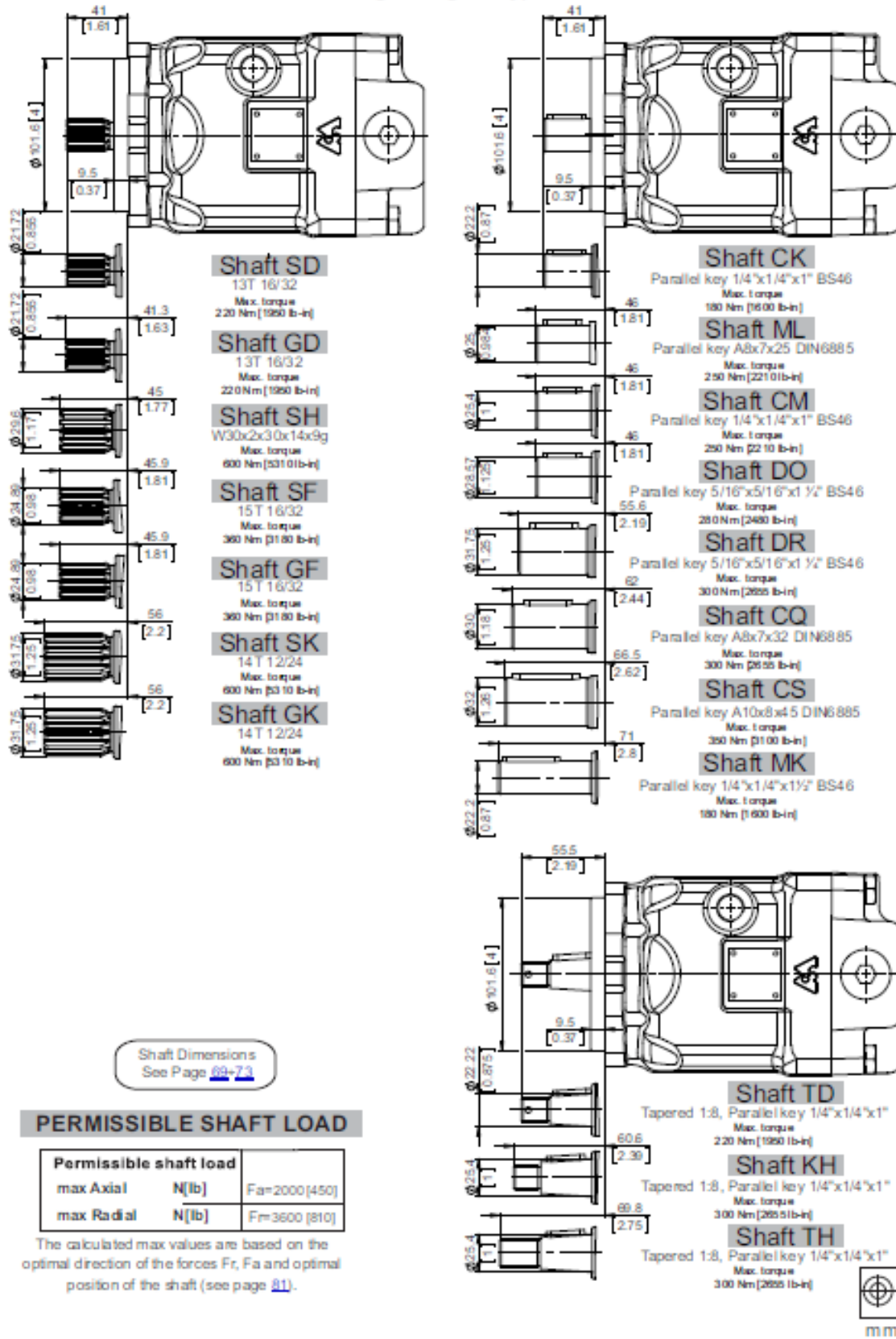
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

SHAFTS MOUNTING

Mounting Flange - Type SAE-B



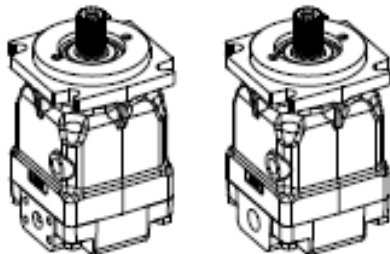
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



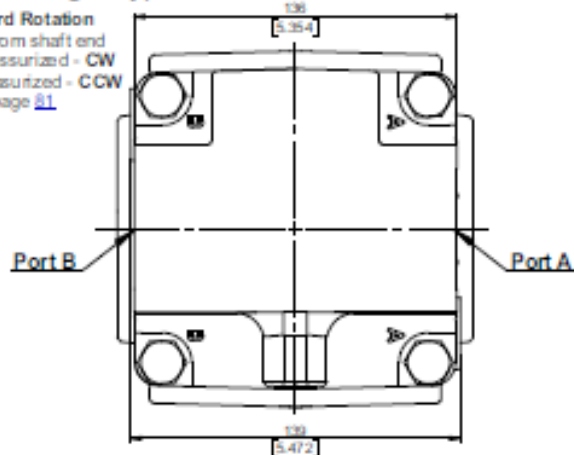
HIDRÁULICA
ROGIMAR

OVERALL DIMENSIONS AND PORTS

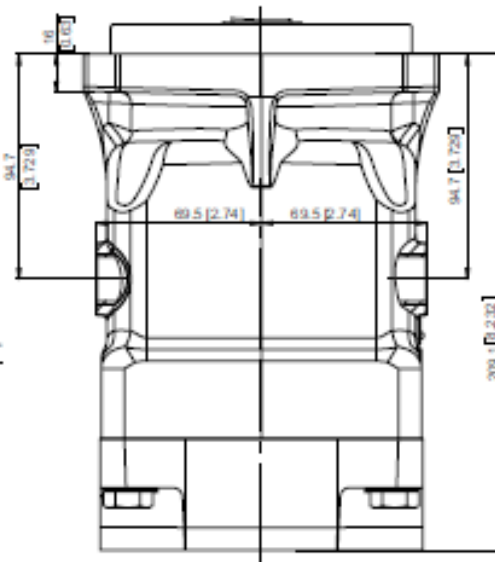
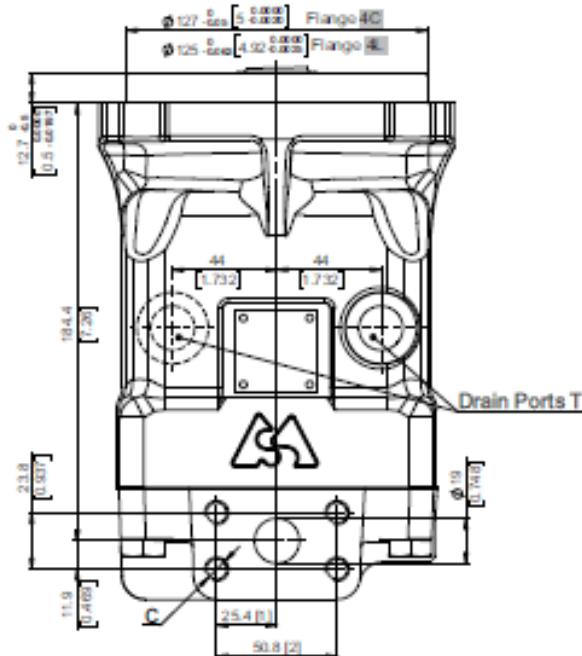
Side Ports - Default Mounting Flange Type - SAE 4C and 4L



Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page 31

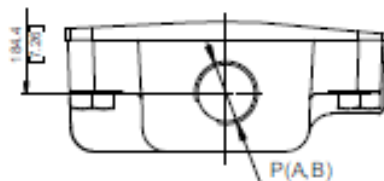


Side ports, port size default, 5 and 9

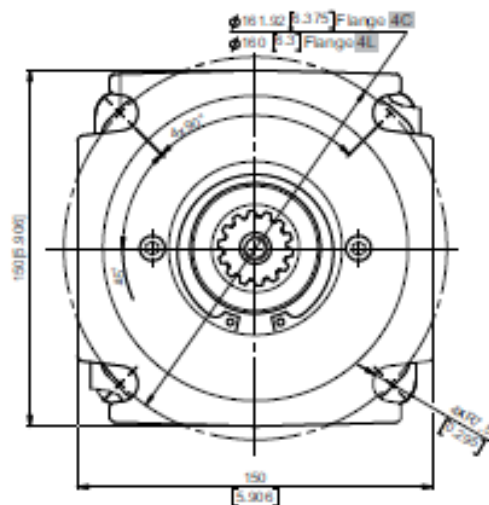


	default	Port Size	4	9
P _{max}	2xISO 6162-2 DN19	2xSAE J518 3/4" P S16000	2xISO 6162-2 DN19	
T	M18x1.5	7/8-14 UNF	G1/2	
C	8xM10	8x3/8-16 UNC	8xM10	

Side ports, port size 2,3 and 4



	Port Size	2	3	4
P _{max}	2xG 3/4-2xM27x2	2x1 1/4-12 UN		
T	G 1/2	M18x1.5	7/8-14 UNF	



Shaft Mounting
see page 30



mm [in]

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

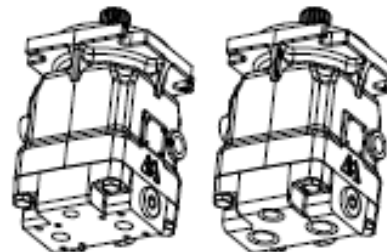


HIDRÁULICA
ROGIMAR

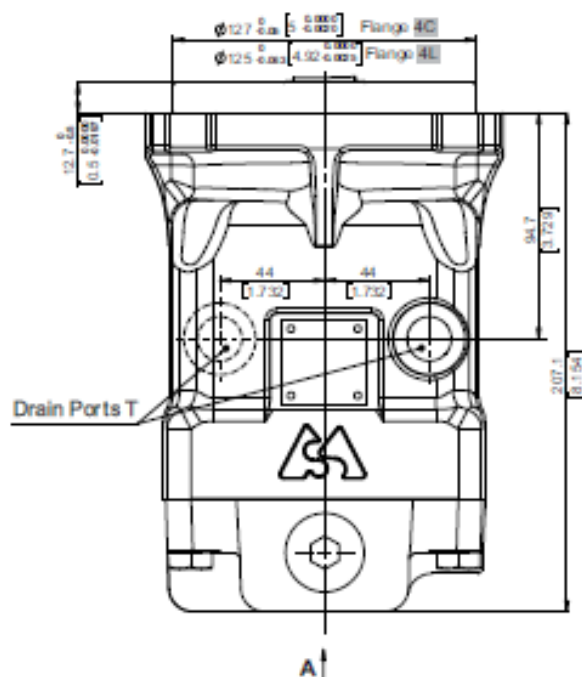
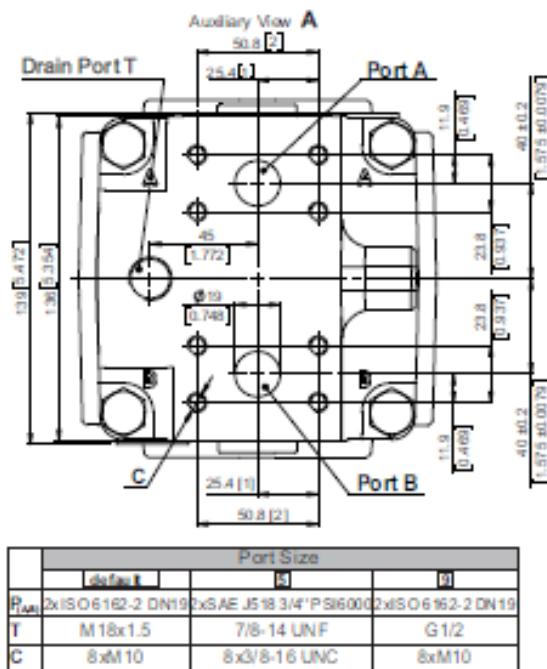
OVERALL DIMENSIONS AND PORTS

Rear Ports - Type E Mounting Flange Type - SAE 4C and 4L

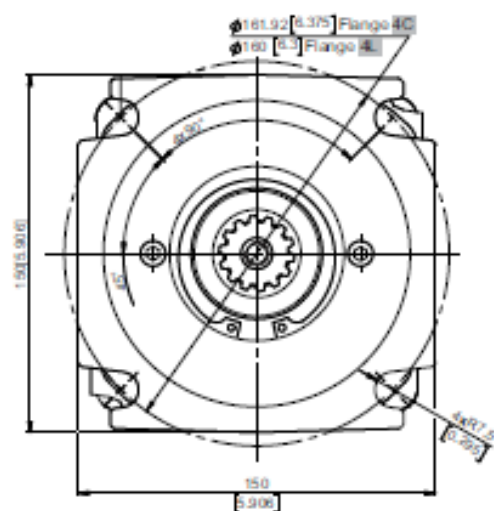
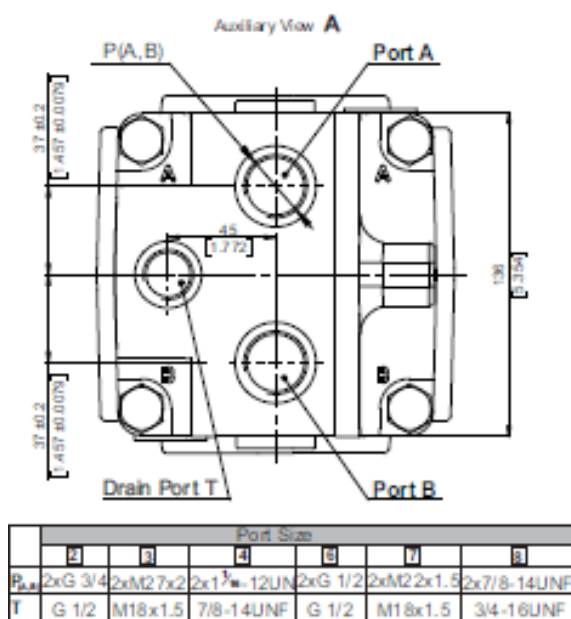
Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page 81



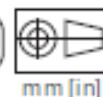
Rear ports, port size default, 5 and 9



Rear ports, port size 2, 3, 4, 6, 7 and 8



Shaft Mounting
see page 30



Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

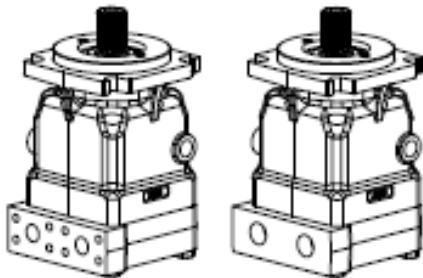


HIDRÁULICA ROGIMAR

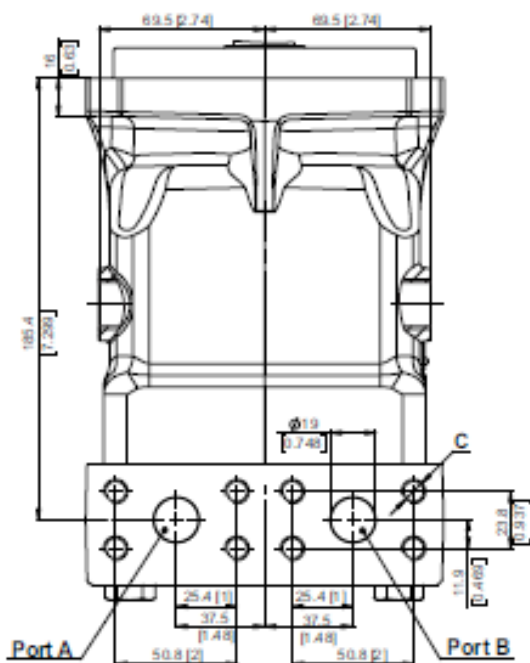
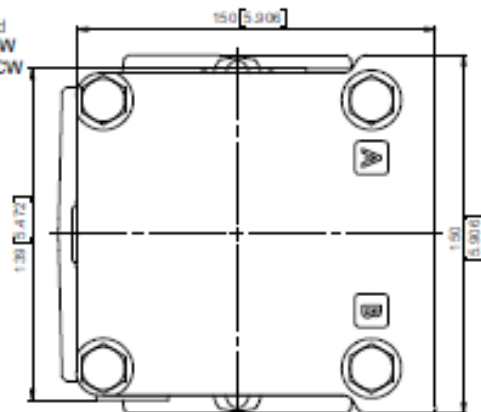
OVERALL DIMENSIONS AND PORTS

Twin Ports - Type T Mounting Flange Type - SAE 4C and 4L

Standard Rotation
Viewed from shaft and
Port A Pressurized - CW
Port B Pressurized - CCW
see page 31

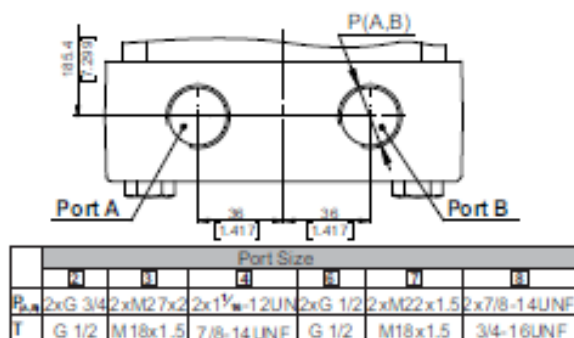


Twin ports, port size default, 5 and 9

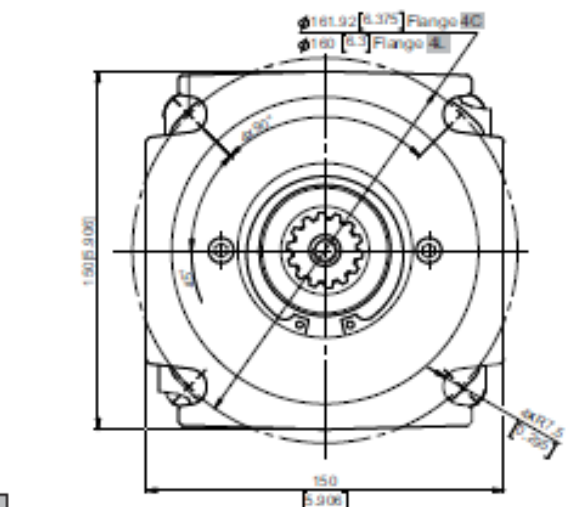
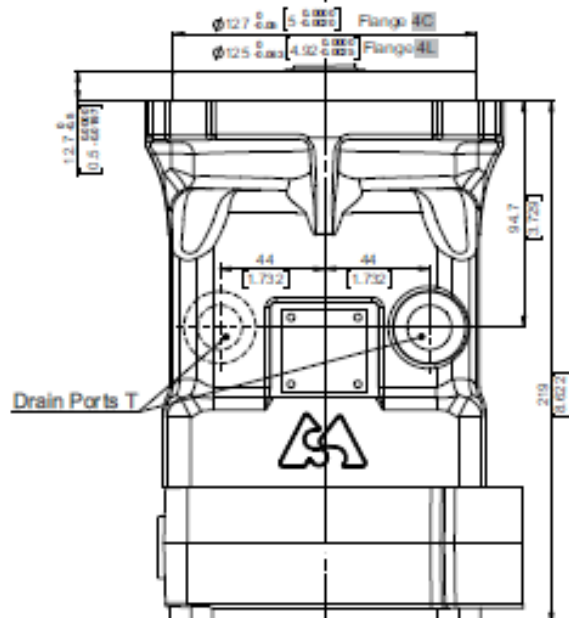


	Port Size		
	default	2	9
B	2x ISO 6162-2 DN19	2x SAE J518 3/4" P Si6000	2x ISO 6162-2 DN19
T	M18x1.5	7/8-14 UNF	G1/2
C	8xM10	8x3/8-16 UNC	8xM10

Twin ports, port size 2, 3, 4, 6, 7 and 8



	Port Size					
B	2x G 3/4	2x M27x2	2x 1 1/2 UN	2x G 1/2	2x M22x1.5	2x 7/8-14 UNF
T	G 1/2	M18x1.5	7/8-14 UNF	G 1/2	M18x1.5	3/4-16 UNF



Shaft Mounting
see page 30



mm [in]

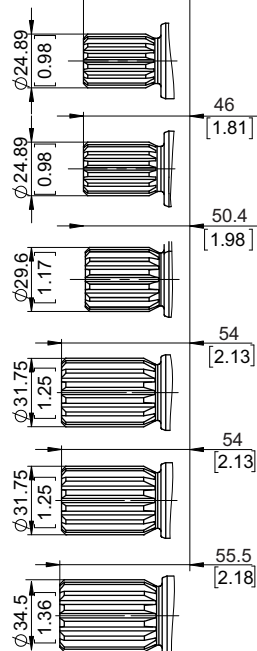
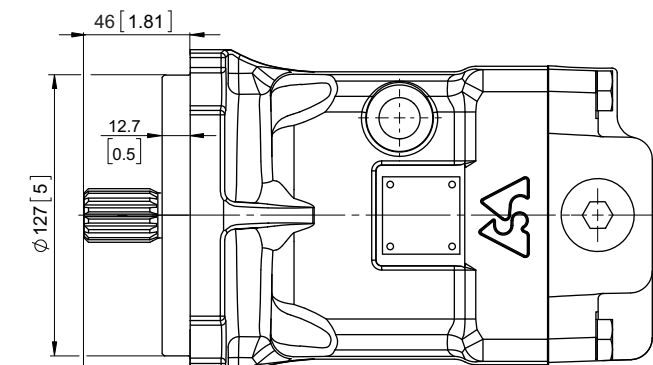
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

SHAFTS MOUNTING

Mounting Flange - Type - SAE 4C and 4L



Shaft SF

15T 16/32
Max. torque
360 Nm [3180 lb-in]

Shaft GF

15T 16/32
Max. torque
360 Nm [3180 lb-in]

Shaft SH

W30x2x30x14x9g
Max. torque
600 Nm [5310 lb-in]

Shaft SK

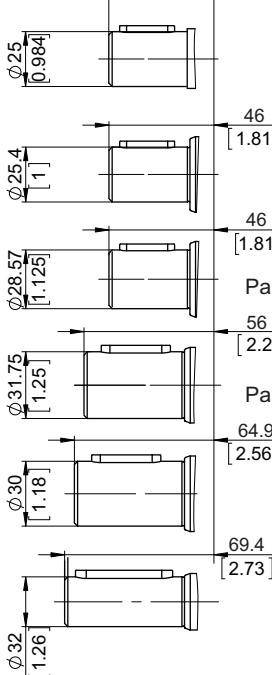
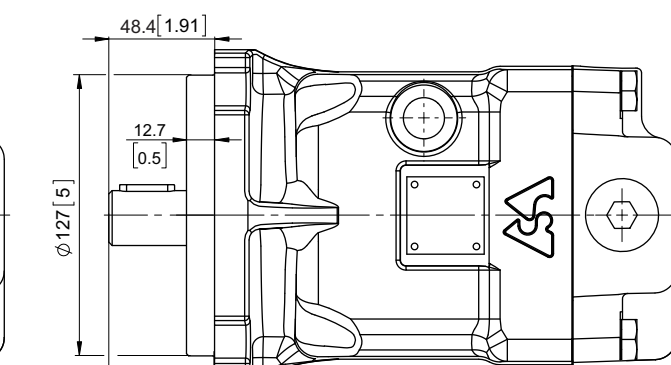
14T 12/24
Max. torque
600 Nm [5310 lb-in]

Shaft GK

14T 12/24
Max. torque
600 Nm [5310 lb-in]

Shaft SP

21T 16/32
Max. torque
1085 Nm [9600 lb-in]



Shaft ML

Parallel key A8x7x25 DIN6885
Max. torque
250 Nm [2210 lb-in]

Shaft CM

Parallel key 1/4"x1/4"x1" BS46
Max. torque
250 Nm [2210 lb-in]

Shaft DO

Parallel key 5/16"x5/16"x1 1/4" BS46
Max. torque
280 Nm [2480 lb-in]

Shaft DR

Parallel key 5/16"x5/16"x1 1/4" BS46
Max. torque
300 Nm [2655 lb-in]

Shaft CQ

Parallel key A8x7x32 DIN6885
Max. torque
300 Nm [2655 lb-in]

Shaft CS

Parallel key A10x8x45 DIN6885
Max. torque
350 Nm [3100 lb-in]

Shaft Dimensions
See Page [69+73](#)

Permissible shaft load

max Axial	N[lb]	Fa=2000 [450]
max Radial	N[lb]	Fr=3200 [720]

The calculated max values are based on the optimal direction of the forces Fr, Fa and optimal position of the shaft (see page [81](#)).

For more information, please, feel free to contact us.

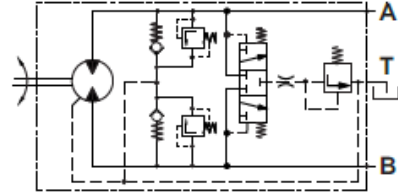
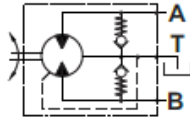
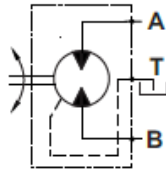
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

Hydraulic Motors Type MAP100

Heavy Duty Axial Piston Motors Fixed Displacement



open drain line is always required

APPLICATION

- » Agricultural machines
- » Road building machines
- » Mining machinery
- » Food industry machines
- » Swing drives
- » Hydraulic transmissions
- » Vibration machines
- » Fan drives
- » Special vehicles

OPTIONS

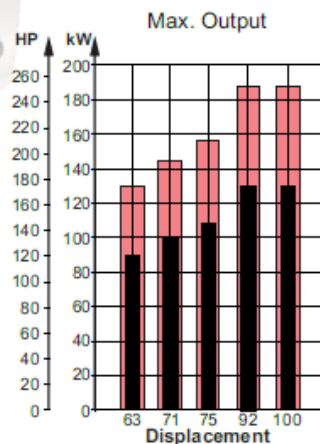
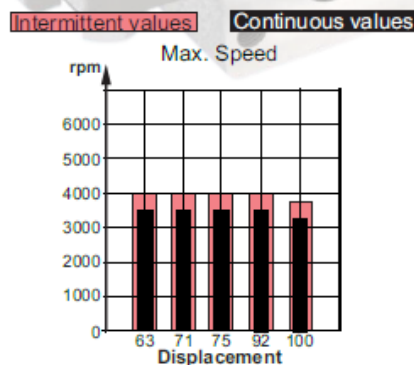
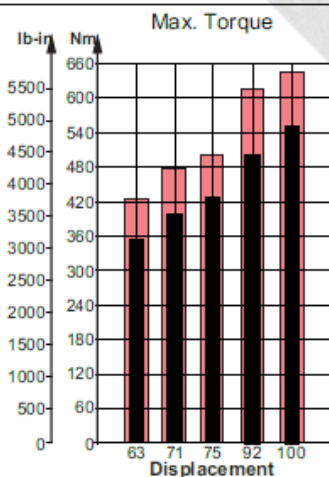
- » Flange options
- » Port options
- » Shaft options
- » High pressure ports
- » Integrated valves

ADVANTAGES

- » High starting torque
- » Smooth operation
- » Long service life
- » High power density

GENERAL

Displacement,	cm ³ /rev [in ³ /rev]	63.58±98.75 [3.88±6.03]
Max. Speed,	RPM	3500
Max. Torque,	Nm [lb-in]	550 [4870]
Max. Output,	kW [HP]	130 [174]
Max. Pressure Drop,	bar [PSI]	350 [5080]
Max. Oil Flow,	l/min [GPM]	326 [86.1]
Min. Speed,	RPM	500
Fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)	
Temperature Range,	°C [°F]	-40÷82 [-40÷180]
Optimal Viscosity Range,	mm ² /s [SUS]	12÷68 [66÷311]
Filtration	ISO code 18/16/13 (Min. recommended fluid filtration of 10 micron)	

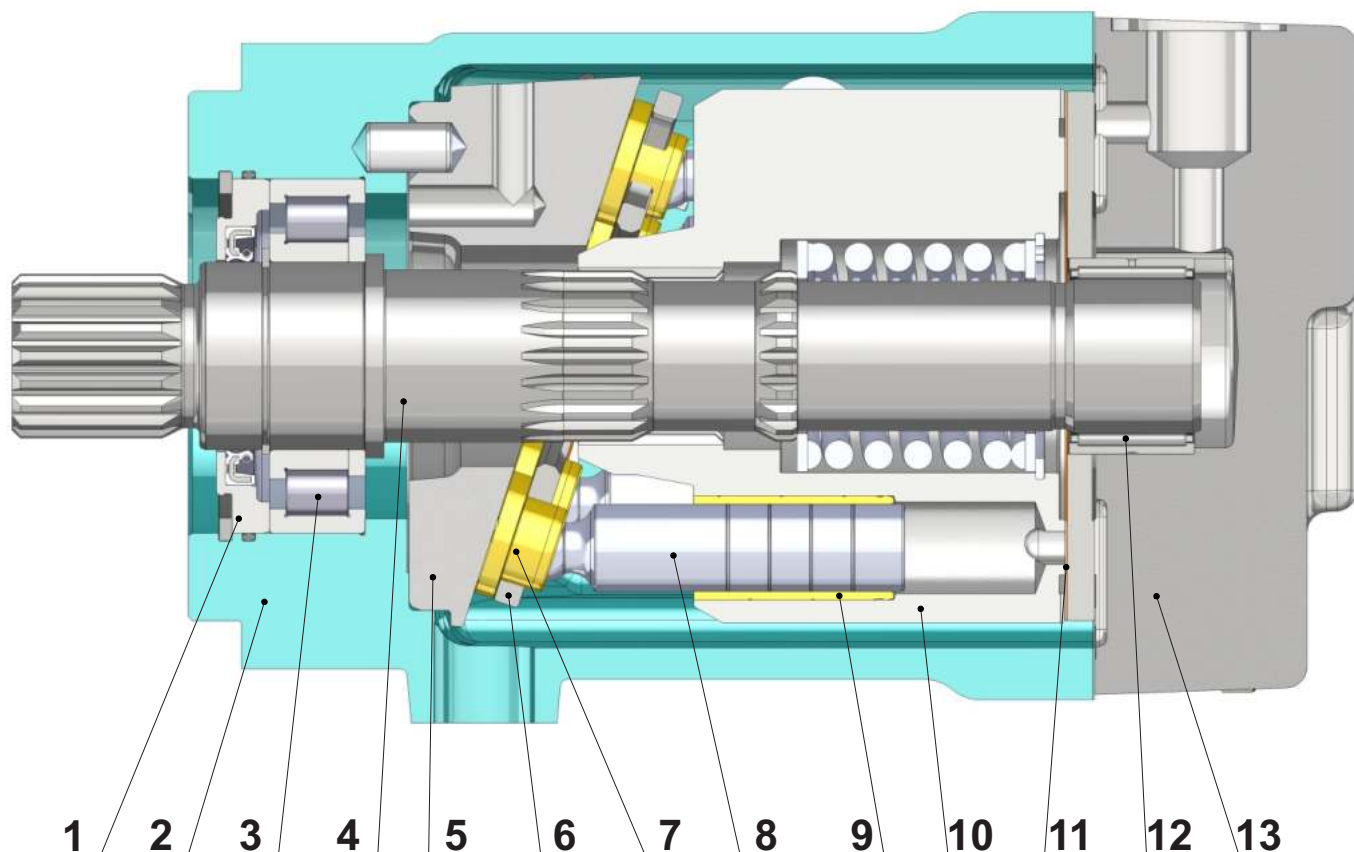


Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

SECTION VIEW



1. Front cover
2. Cast iron body
3. Robust radial - axial roller bearing
4. Hardened shaft
5. Solid swash plate
6. Retainer plate
7. Improved piston shoes
8. Improved pistons
9. Brass bushings
10. Hardened steel cylinder block
11. Bimetal distributor
12. Needle bearing
13. Solid end cover

The main advantages of the heavy duty design of the MAP motors over the typical swash plate motors are the higher starting torque and the higher total efficiency. In regards to these two parameters, under normal working mode, the MAP is comparable to the bent axis motors. The advantages of the MAP over the bent axis motors are the higher reliability and the lower degree of pulsation and vibration during operation.

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA ROGIMAR

SPECIFICATION DATA

Type		MAP 63	MAP 71	MAP 75	MAP 92	MAP 100
Displacement, cm³/rev [in³/rev]		63.58 [3.88]	71.5 [4.36]	76.84 [4.69]	93.18 [5.69]	98.75 [6.03]
Max. Speed, [RPM]	Cont.	3500	3500	3500	3500	3240
	Int.*	4000	4000	4000	4000	3750
Max. Torque,** Nm [lb-in]	Cont.	354 [3133]	398 [3523]	428 [3788]	514 [4549]	550 [4870]
	Int.**	425 [3762]	478 [4230]	514 [4549]	616 [5452]	645 [5710]
Output, kW [HP]	Cont.	89 [120]	100 [134]	108 [145]	130 [174]	130 [174]
	Int.**	129 [173]	145 [195]	156 [209]	188 [252]	188 [252]
Max. Pressure, bar [PSI]	Cont.	350 [5080]	350 [5080]	350 [5080]	350 [5080]	350 [5080]
	Int.**	420 [6100]	420 [6100]	420 [6100]	420 [6100]	410 [5950]
	Peak	450 [6527]	450 [6527]	450 [6527]	450 [6527]	450 [6527]
Max. Oil Flow, l/min [GPM]	Cont.	223 [58.9]	250 [66]	269 [71.1]	326 [86.1]	320 [84.5]
	Int.*	255 [67.4]	286 [75.6]	308 [81.4]	373 [98.5]	370 [97.7]
Torque Constant ***** Nm/bar [lb-in/PSI]		0.91 [0.56]	1.03 [0.63]	1.1 [0.67]	1.32 [0.81]	1.42 [0.87]
Speed Constants ***** RPM/(l/min) [RPM/GPM]		14.94 [56.56]	13.3 [50.3]	12.36 [46.8]	10.2 [38.6]	9.62 [36.42]
Permissible Shaft Load						
max Axial**** N[lb]		Fa=2500 [562]				
max Radial**** N[lb]		Fr=4500 [1010]				
Min. Speed, [RPM]		500				
Max. Pressure in Drain Line, bar [PSI]		5 [70] open drain line is always required				
Weight, kg [lb]		34.3 [75.62] for SAE-4C flange; 35.3 [77.82] for SAE-4M flange				

Peak pressure is the highest allowable pressure, may occur for max. 1% of every minute;

* Intermittent speed (flow): for pressure up to 150[2200] bar[PSI];

** Intermittent load: the permissible values may occur for max. 10% of motor lifetime;

*** Theoretical torque;

**** The calculated max values are based on the optimal direction of the forces Fr, Fa and optimal position of the shaft.

***** The constant values are used for calculation of torque and speed with motor efficiencies $\eta_v=0.95$ and $\eta_{mh}=0.9$.

1. The recommended output power for continuous operations should not be exceeded.

2. Recommended filtration as per ISO 4406 cleanliness code 18/16/13 or better. This filtration corresponds to SAE AS 4059 8A/7B/7C. Nominal filtration - 10 micron or better.

3. Recommended a premium quality, anti-wear type mineral based hydraulic oil, HLP(DIN51524) or HM(ISO6743/4).

4. Recommended oil viscosity - 12...68 cSt or see page [84](#).

5. Recommended maximum system operating temperature - 82°[180°] C[F].

6. To ensure optimum life of the motor, fill it up with fluid prior to load it and run with moderate load and speed for about 10-15 minutes.

Hint: Motor Torque = Torque Constant * Pressure Drop

Rotation Speed = Speed Constant * Oil Flow

The constant values are approximate. Motor torque and rotation speed for a particular project are depending on the real operating conditions. For more detailed calculations please see efficiencies on page [74](#) and formulas on page [85](#).

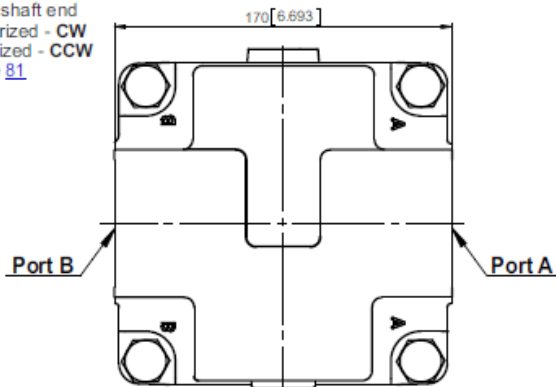
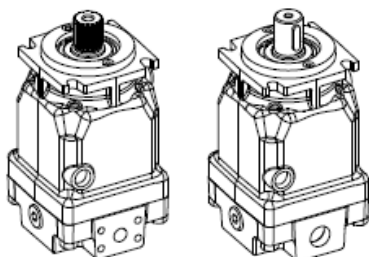


HIDRÁULICA
ROGIMAR

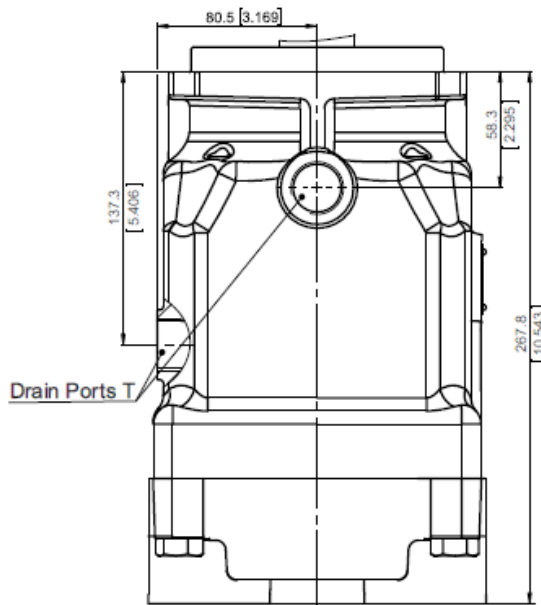
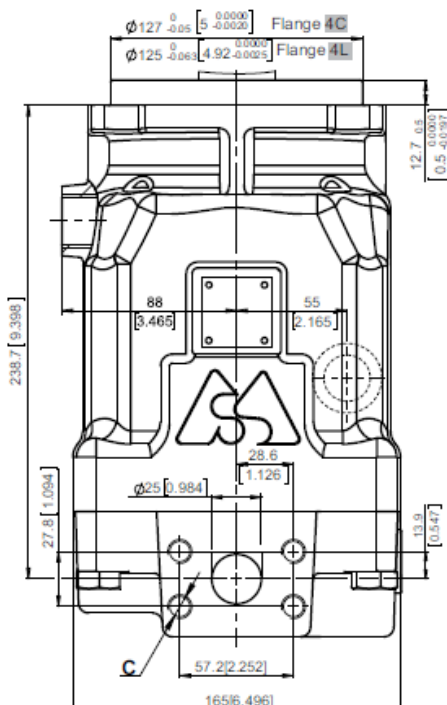
OVERALL DIMENSIONS AND PORTS

Side Ports - **Default** Mounting Flange - Type **SAE 4C and 4L**

Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page [81](#)

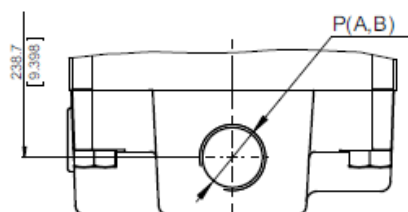


Side ports, port size **default, 5 and 9**

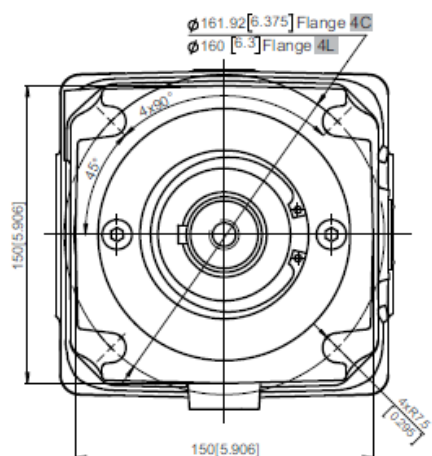


	Port Size		
	default	5	9
P _{A,B}	2xISO 6162-2 DN25	2xSAE J518 1" PSI6000	2xISO 6162-2 DN25
T	M27x2	1 1/8"-12 UN	G 3/4
C	8xM12	8x7/16-14 UNC	8xM12

Side ports, port size **2 and 4**



	Port Size	
	2	4
P _{A,B}	2xG 1	2x1 1/8"-12 UN
T	G 3/4	1 1/8"-12 UN



Shaft Mounting
see page [38](#)



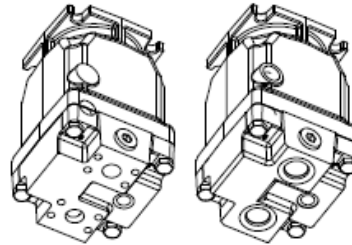
mm [in]

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

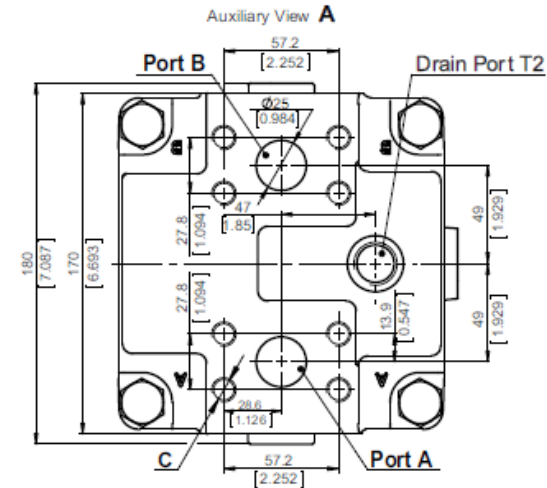
OVERALL DIMENSIONS AND PORTS

Rear Ports - Type E Mounting Flange - Type **SAE 4C and 4L**

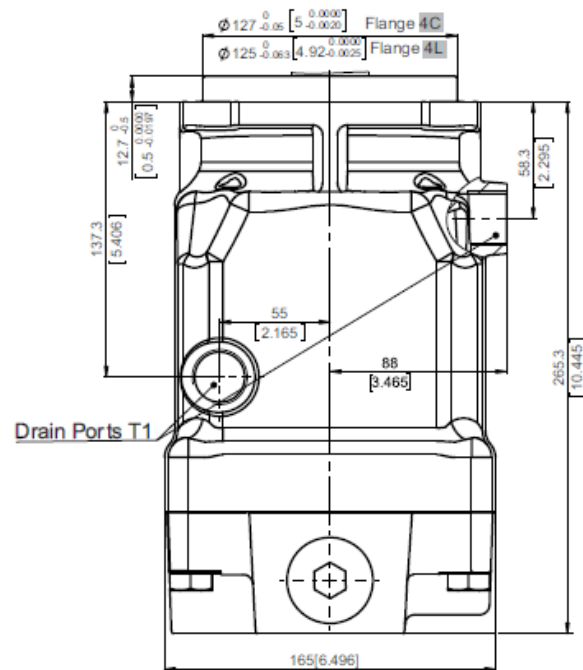
Standard Rotation
Viewed from shaft end
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**
see page [81](#)



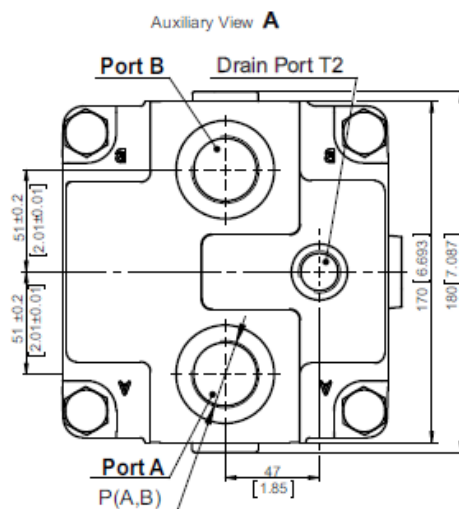
Rear ports, port size default,5 and 9



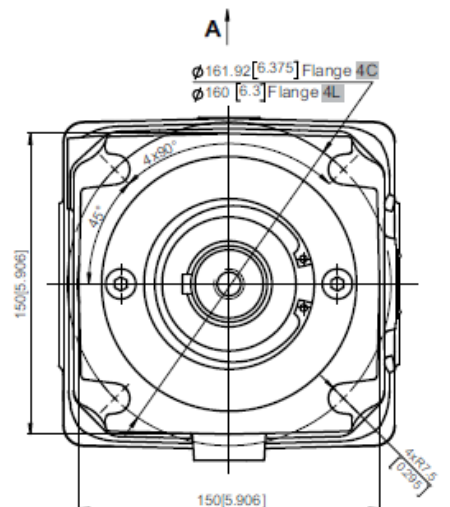
	Port Size		
	default	5	9
P _{1A}	2xISO 6162-2 DN25	2xSAE J518 1" PSI6000	2xISO 6162-2 DN25
T1	M27x2	1 $\frac{1}{8}$ "-12 UNF	G 3/4
T2	M22x1.5	7/8-14 UNF	G 1/2
C	8xM12	8x7/16-14 UNC	8xM12



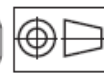
Rear ports, port size 2 and 4



	Port Size	
	2	4
P ₂₀	2xG 1	2x1 ⁵ / ₁₆ -12UN
T1	G 3/4	1 ¹ / ₁₆ -12UN
T2	G 1/2	7/8 - 14 UNF



Shaft Mounting
see page [38](#)



mm [in]

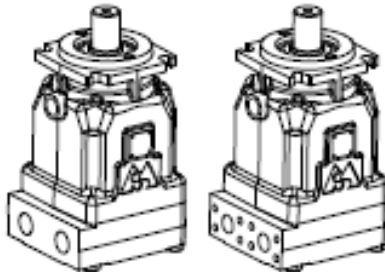
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



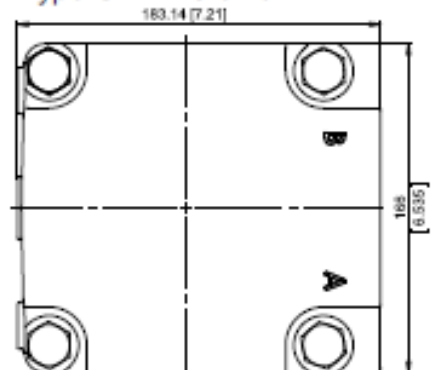
HIDRÁULICA
ROGIMAR

OVERALL DIMENSIONS AND PORTS

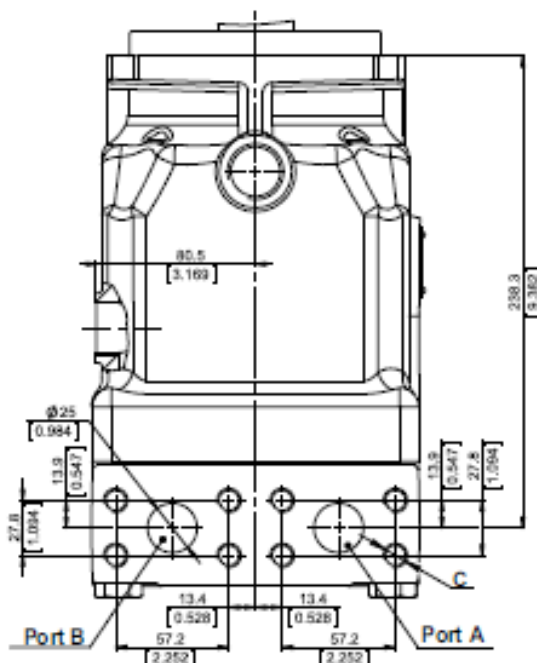
Twin Side Ports - Type T Mounting Flange - Type SAE 4C and 4L



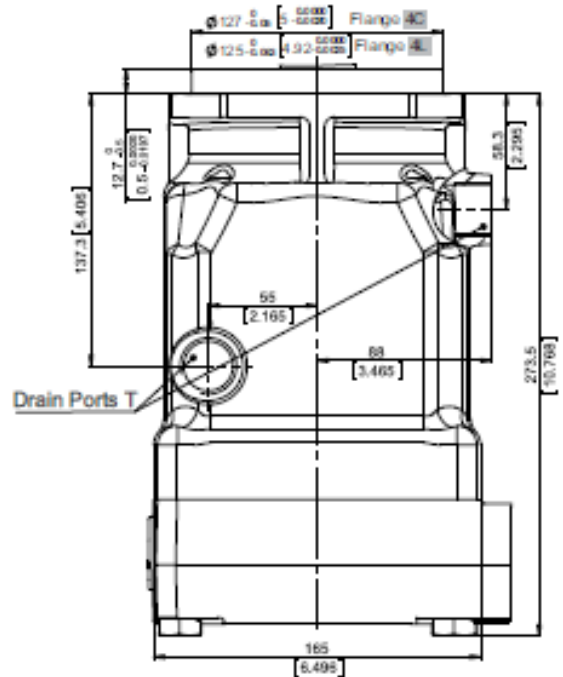
Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page 31



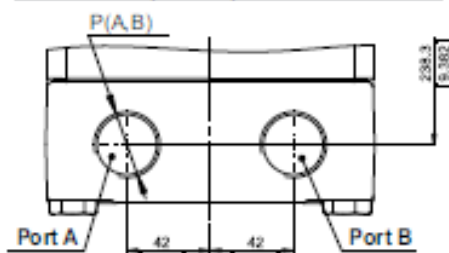
Twin side ports, port size default, 5 and 9



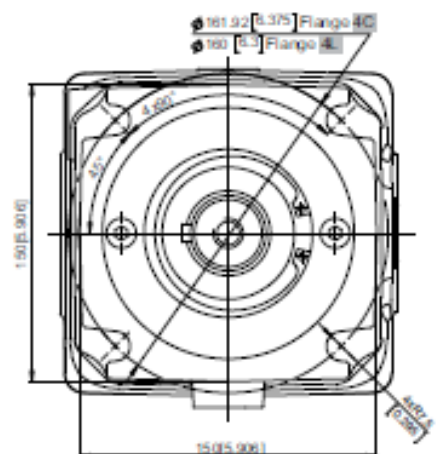
	Port Size		
	default	5	9
P _{A,B}	2xISO 6162-2 DN25	2xSAE J518 1" PSIG6000	2xISO 6162-2 DN25
T	M27x2	1 1/8"-12 UN	G 3/4
C	8xM12	8x7/16-14 UNC	8xM12



Twin side ports, port size 2 and 4



	Port Size	
	2	4
P _{A,B}	2xG 1	2x1 1/8"-12 UN
T	G 3/4	1 1/8"-12 UN



Shaft Mounting
see page 38



mm [in]

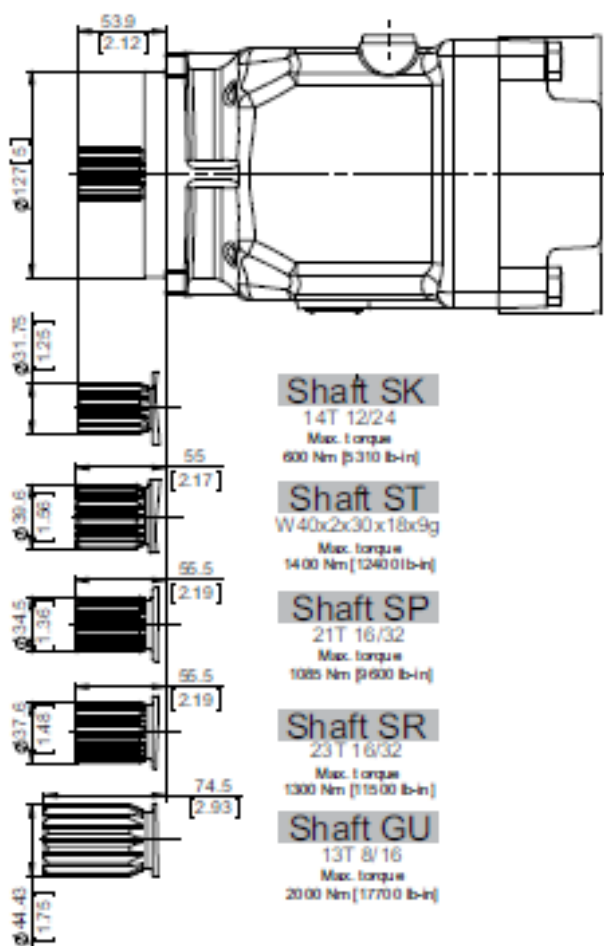
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



HIDRÁULICA
ROGIMAR

SHAFTS MOUNTING

Flange - Type SAE 4C and 4L



Shaft SK

14T 12/24
Max. torque
600 Nm [5310 lb-in]

Shaft ST

W40x2x30x18x9g
Max. torque
1400 Nm [12400 lb-in]

Shaft SP

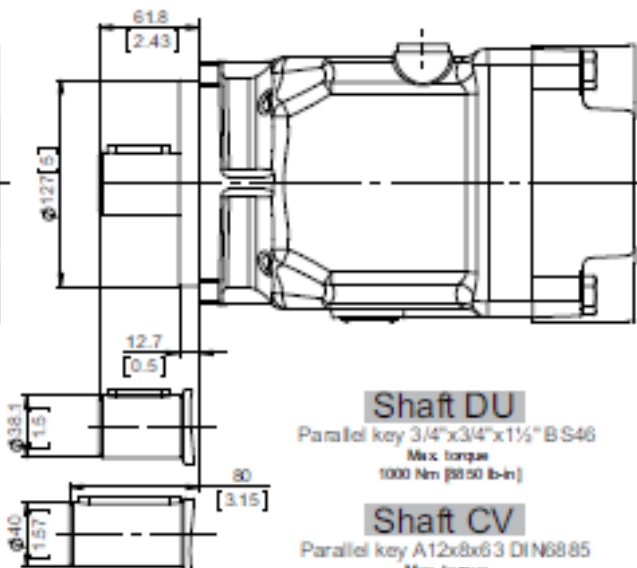
21T 16/32
Max. torque
1000 Nm [8800 lb-in]

Shaft SR

23T 16/32
Max. torque
1300 Nm [11500 lb-in]

Shaft GU

13T 8/16
Max. torque
2000 Nm [17700 lb-in]

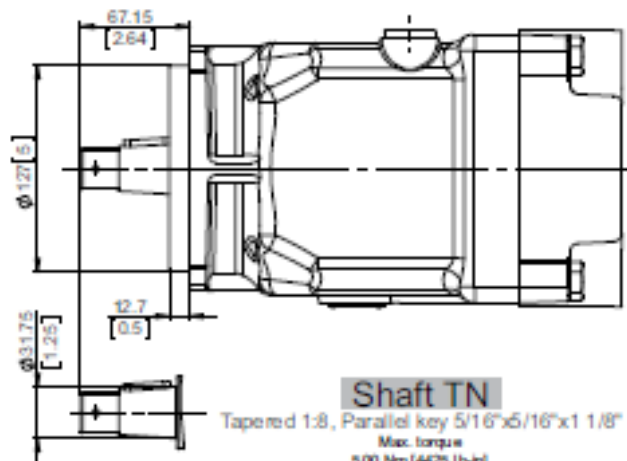


Shaft DU

Parallel key 3/4"x3/4"x1 1/2" BS46
Max. torque
1000 Nm [8800 lb-in]

Shaft CV

Parallel key A12x8x63 DIN6885
Max. torque
1100 Nm [9735 lb-in]



Shaft TN

Tapered 1:8, Parallel key 5/16"x5/16"x1 1/8"
Max. torque
500 Nm [425 lb-in]

Shaft Dimensions
See Page [69+73](#)

PERMISSIBLE SHAFT LOAD

Permissible shaft load		
max Axial	N[lb]	Fa=2500 [562]
max Radial	N[lb]	Fr=4500 [1010]

The calculated max values are based on the optimal direction of the forces Fr, Fa and optimal position of the shaft (see page [8.1](#)).

For more information, please, feel free to contact us.

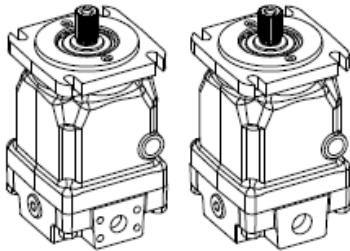
Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



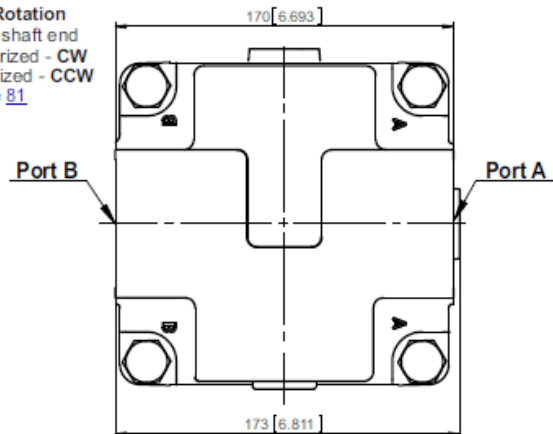
HIDRÁULICA ROGIMAR

OVERALL DIMENSIONS AND PORTS

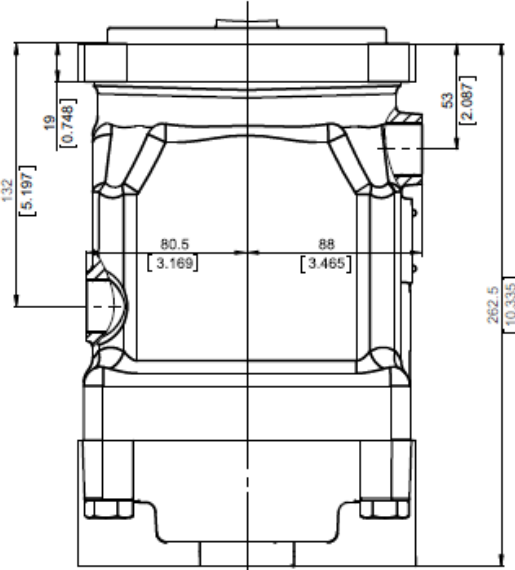
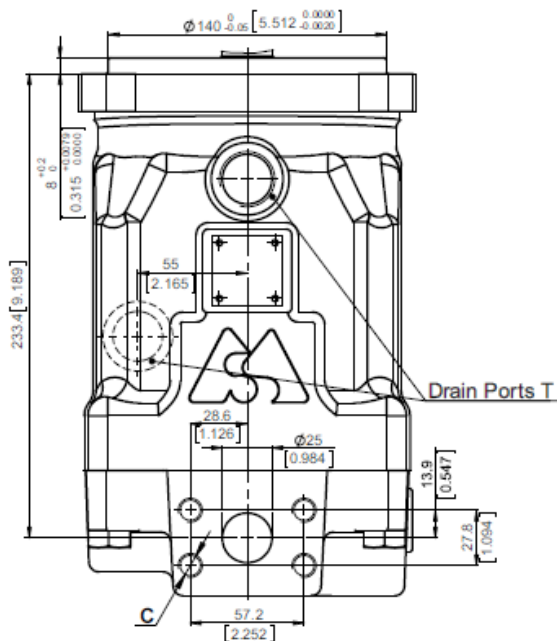
Side Ports - Default Mounting Flange - Type 4M



Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page [81](#)

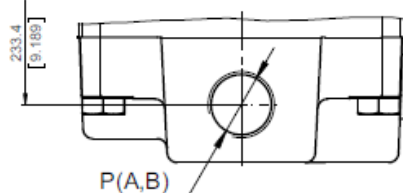


Side ports, port size default, 5 and 9

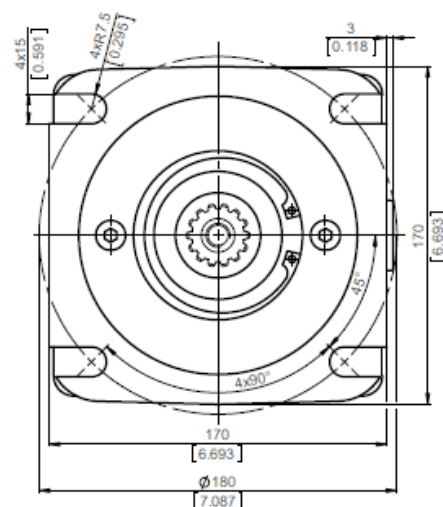


	Port Size		
	default	5	9
P _{A/B}	2xISO 6162-2 DN25	2xSAE J518 1" PSI6000	2xISO 6162-2 DN25
T	M27x2	1 1/8-12 UN	G 3/4
C	8xM12	8x7/16-14 UNC	8xM12

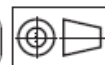
Side ports, port size 2 and 4



	Port Size	
	2	4
P _{A/B}	2xG 1	2x1 1/8-12UN
T	G 3/4	1 1/8-12UN



Shaft Mounting
see page [42](#)



Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.



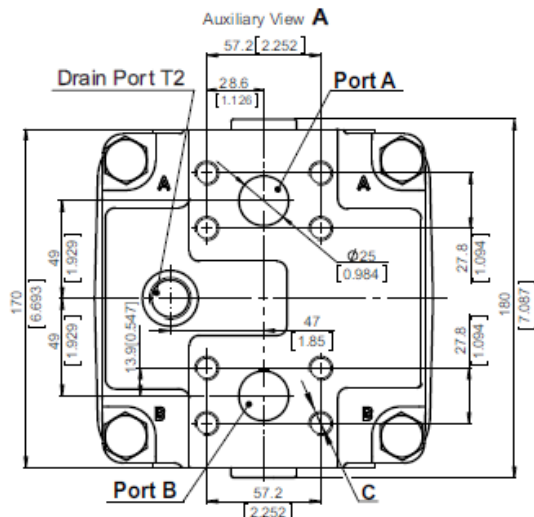
HIDRÁULICA
ROGIMAR

OVERALL DIMENSIONS AND PORTS

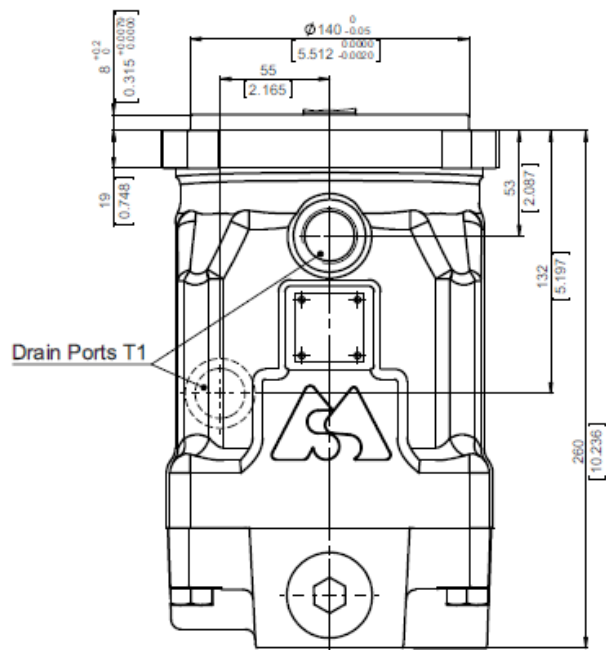
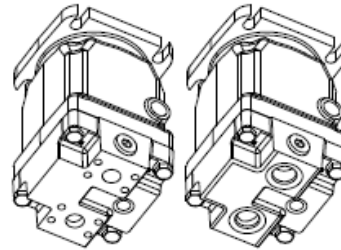
Rear Ports - Type E Mounting Flange - Type 4M

Standard Rotation
Viewed from shaft end
Port A Pressurized - CW
Port B Pressurized - CCW
see page [81](#)

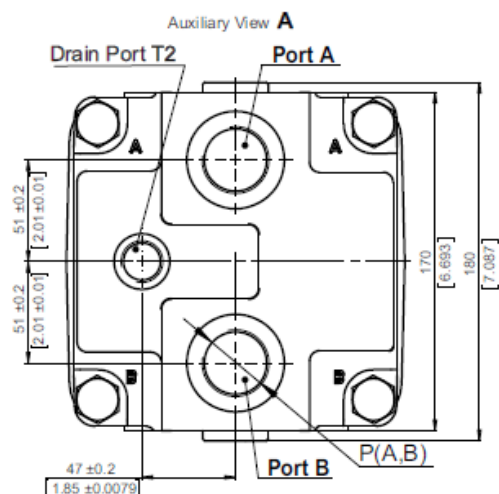
Rear ports, port size default, 5 and 9



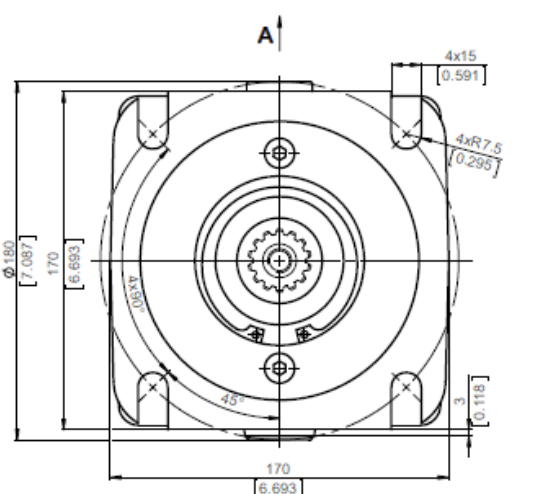
	Port Size		
	default	5	9
P _{A,B}	2xISO 6162-2 DN25	2xSAE J518 1" PSI6000	2xISO 6162-2 DN25
T1	M27x2	1 1/8-12 UN	G 3/4
T2	M22x1.5	7/8-14 UNF	G 1/2
C	8xM12	8x7/16-14 UNC	8xM12



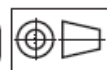
Rear ports, port size 2 and 4



	Port Size	
	2	4
P _{A,B}	2xG 1	2x1 1/8-12UN
T1	G 3/4	1 1/8-12UN
T2	G 1/2	7/8-14 UNF



Shaft Mounting
see page [42](#)



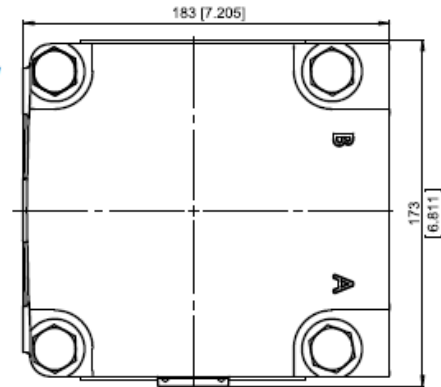
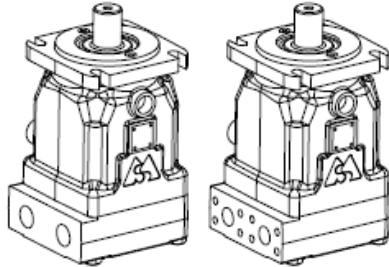
mm [in]

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.

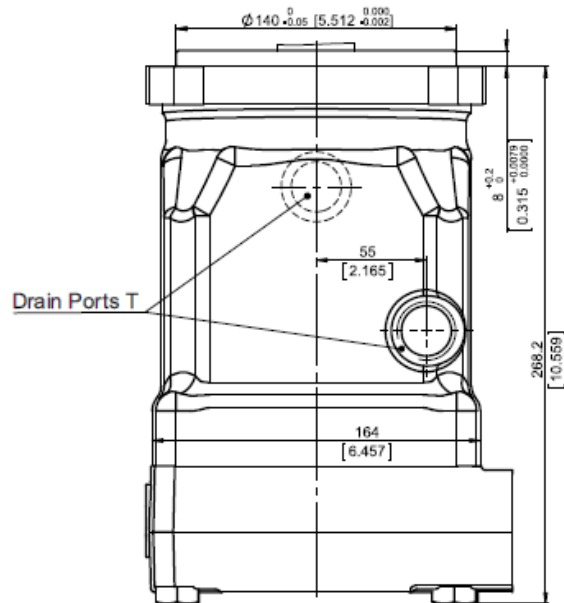
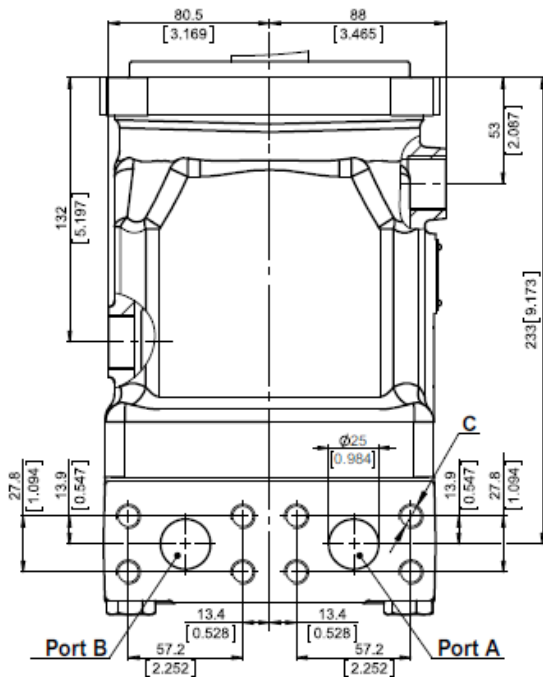
OVERALL DIMENSIONS AND PORTS

Twin Side Ports - Type **T** Mounting Flange - Type **4M**

Standard Rotation
Viewed from shaft end
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**
see page [81](#)

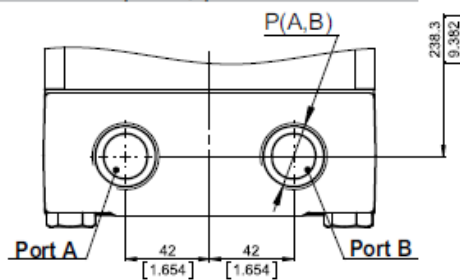


Twin side ports, port size default,5 and 9

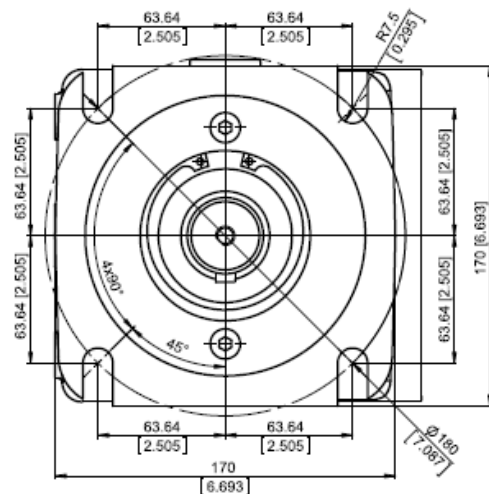


	Port Size		
	default	5	9
P TAS	2xISO 6162-2 DN25	2xSAE J518 1" PSI6000	2xISO 6162-2 DN25
T	M27x2	1 1/16-12 UN	G 3/4
C	8xM12	8x7/16-14 UNC	8xM12

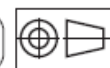
Twin side ports, port size 2 and 4



	Port Size	
	2	4
P _(A,B)	2xG 1	2x1 ^{5/8} -12UN
T	G 3/4	1 ^{1/8} -12UN



Shaft Mounting
see page [42](#)



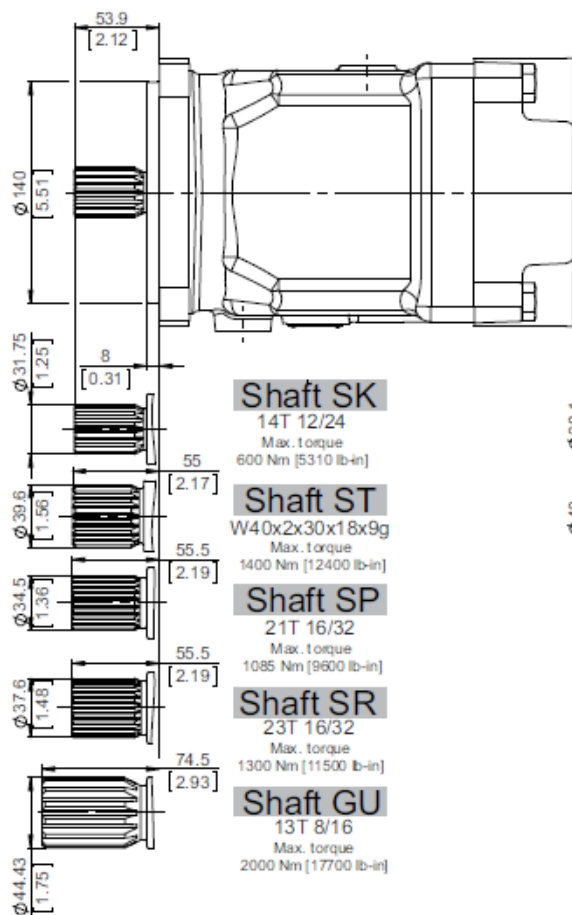
mm [in]



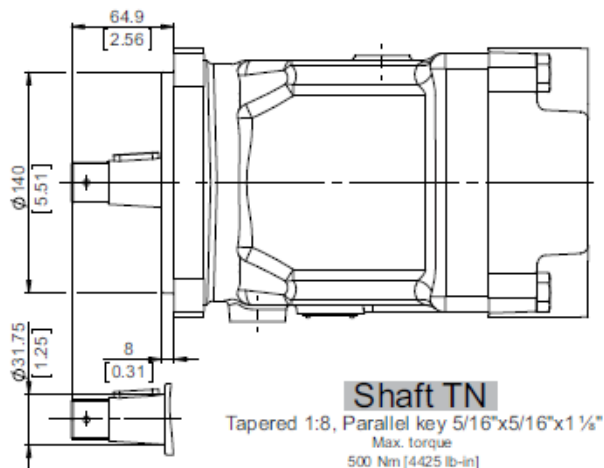
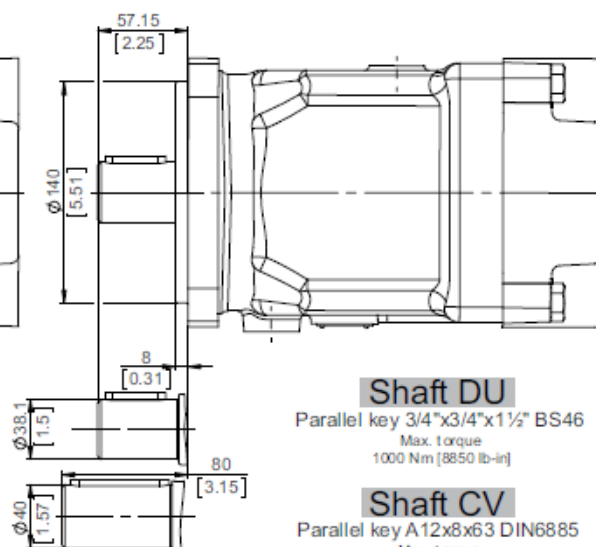
HIDRÁULICA
ROGIMAR

SHAFTS MOUNTING

Flange - Type 4M



Shaft Dimensions
See Page [69+73](#)

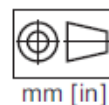


PERMISSIBLE SHAFT LOAD

Permissible shaft load		
max Axial	N[lb]	Fa=2500 [562]
max Radial	N[lb]	Fr=4500 [1010]

The calculated max values are based on the optimal direction of the forces Fr, Fa and optimal position of the shaft (see page [81](#)).

For more information, please, feel free to contact us.





HIDRÁULICA
ROGIMAR

ORDERING CODE

	1	2	3	4	5	6	7	8	9	10	11	12	13	13	13
M A P													[		]

Pos.1 - Mounting Flange

- 4M** - ISO3019-2 4-Bolt flange of
spigot diam.140 [5.51"] - BC 180 [7.09"]
- 4C** - SAE C - 4-Bolt flange
spigot diam. 127 [5"] - BC 161.92 [6.375"]
- 4L** - 4-Bolt flangespigot diam. 125[4.92"] - BC 160[6.3"]

Pos.2 - Port Type

- omit - Side ports on opposite sides
- T *** - Twin (Two) side ports on one side
- E** - Rear ports

Pos.3 - Displacement Code

- 63** - 63.58 cm³/rev [3.88 in³/rev]
- 71** - 71.5 cm³/rev [4.36 in³/rev]
- 75** - 76.84 cm³/rev [4.69 in³/rev]
- 92** - 93.18 cm³/rev [5.69 in³/rev]
- 100** - 98.75 cm³/rev [6.03 in³/rev]

Pos.4 - Shaft Extensions**

- SK** - ø31.75 [1.25"] Spline SAE 14T 12/24 DP, M10
- SP** - ø34.5 [1.358"] Spline SAE 21T 16/32 DP, M12
- SR** - ø37.6 [1.48"] Spline SAE 23T 16/32 DP, M12
- ST** - ø40 [1.575"] Spline W40x2x30x18x9g DIN 5480, M12 thread
- GU** - ø43.71 [1.721"] Spline SAE 13T 8/16 DP, 3/8-16UNC
- DU** - ø38.1[1.5"] Straight, key 9.528[0.375"]
L38.1[1.5"], 3/8-16 UNC thread
- CV** - ø40 [1.575"] Straight, M12 thread
Parallel key A12x8x63 DIN6885
- TN** - ø31.75 [1.25"] Tapered 125:1000, key
7.94[5/16"] x7.94[5/16"] L28[1 1/8"], 1-12 UNF

Pos.5 - Ports

- omit - 2xISO 6162-2 DN25, drain ports M27x2,
for rear drain port M22x1.5
- 2** - 2xG1, drain G3/4, for rear drain ports G1/2
- 4** - 2x1 5/16-12 UN Ports, drain ports 1 1/8 UNF
for rear drain port 7/8-14 UNF
- 5** - 2xSAE 1", PSI6000, drain ports 1 1/8 UNF
for rear drain port 7/8-14 UNF
- 9** - 2xISO 6162-2 DN25, drain ports G3/4,
for rear drain port G1/2

Pos.6 - Seal, Corrosion Resistant Seal Surface

- omit - NBR seal type material
- V** - FKM seal type material

Pos.7 - Integrated Valves

See page [77+78](#) for information about valves

- omit - None
- HR** - Single anti-cavitation valve
- AR** - Dual anti-cavitation valve
- PU** - Purge valve - default - 7±2 l/min
- FLU** - Flush valve - default - 7±2 l/min at 20 bar
- SAR** - Single anti-cavitation and relief valve
- DAR** - Dual anti-cavitation and relief valve
- DARP** - Dual anti-cavitation, relief and purge
valve, default flow - 7±2 l/min
- DARF** - Dual anti-cavitation, relief and flush
valve, default flow - 7±2 l/min at 20 bar

Pos.8 - Valve's Port for Single Valves

- omit - None
- A** - Port A
- B** - Port B

Pos.9 - Pressure Setting of Integrated Valves

- omit - None
- x** -

250	300	350
-----	-----	-----

for more information see page [77+78](#)

Pos.10 - Flow Setting of Integrated Valves

- omit - None
- Lx** - For value - see page [77+78](#)

Pos.11 - Special Features*

- omit - None
- R2S** - Speed Sensor Two Directional (see page [79](#))
- R** - Reverse Rotation (see page [81](#))

Pos.12 - Paint and Coating

- omit - No paint or coating
- P** - Painted
- PC** - Corrosion protected paint

If a painting option is required, the standard color is black-Alkyd-Styrenated Enamel, Black RAL 9005.
Other color by customer's request.

Pos.13 - Design Series

- omit - Factory specified

**The permissible output torque for shafts must not be exceeded!

EXAMPLE

MAP4CE100ST2															
M A P	4	C	E	1	0	0	S	T	2						
Flange 4C Side Ports Disp. 100cc Shaft ST Port size 2 no paint															

MAP4ME92GS4P															
M A P	4	M	E	9	2	G	S	4	P						
Flange 4M Rear Ports Disp. 92cc Shaft GS Port size 4 Painted															

Hidráulica Rogimar se reserva el derecho de cambiar total o parcialmente cualquier medida e información técnica contenida en este documento sin previo aviso.