



P-MS11.MSE11

Hydraulic Motors



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Efficient Performance
Innovative Technology
Reliable Quality and
Service

YEOSHE HYDRAULICS CO.,LTD.

characteristics

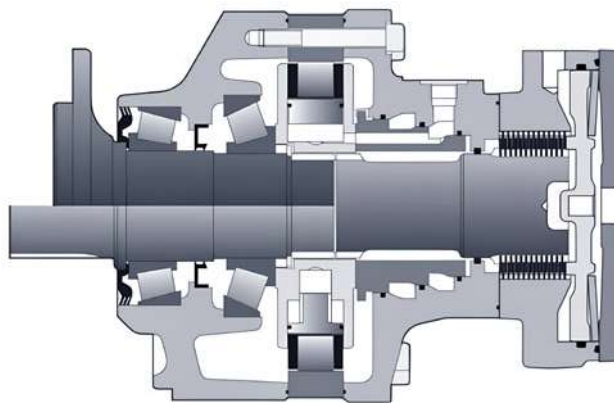


• P-MS11

Cams with equal lobes	450 bar [6 527 PSI]
Cams with unequal lobes	450 bar [6 527 PSI]

• P-MSE11

Cams with equal lobes	400 bar [5 802 PSI]
Cams with unequal lobes	400 bar [5 802 PSI]



M

1

P-MS11.MSE11 series

C		Cams with unequal lobes		Cams with equal lobes									
		P-MS11	P-MSE11	P-MS08				P-MSE08					
		A	A	2	1	0	9	2	1	0	9	8	7
Theoretical torque	1 cm^3/tr [cu.in/rev.]	1,048 [63.9]	1,404 [85.6]	1,687 [102.9]	1,536 [93.7]	1,404 [85.6]	1,263 [77.0]	1,259 [76.8]	1,147 [70.0]	1,048 [63.9]	943 [57.5]	837 [51.0]	730 [44.5]
	2 cm^3/tr [cu.in/rev.]	629 [38.4]	419 [25.6]	843.5 [51.4]	768 [46.8]	702 [42.8]	631.5 [38.5]	629.5 [38.4]	573.5 [35.0]	524 [32.0]	471.5 [28.8]	418.5 [25.5]	365 [22.3]
	1 at 100 bar Nm	2,232	1,666	2,682	2,442	2,232	2,008	2,002	1,824	1,666	1,499	1,331	1,161
	at 1000 PSI [lb.ft]	[1,135]	[847]	[1,364]	[1,242]	[1,135]	[1,021]	[1,018]	[927]	[847]	[762]	[677]	[590]
Max.power	1 kW [HP]	50 [67]	50 [67]	50 [67]				50 [67]					
	2 preferred kW [HP]	33 [44]	33 [44]	33 [44]				33 [44]					
	2 non-preferred kW [HP]	25 [34]	25 [34]	25 [34]				25 [34]					
Max. speed	1 tr/min [RPM]	120		130	140	155	170	170	180	185	190	195	200
	2 tr/min [RPM]			165	180	185	190	175					

- 1 First displacement
2 Second displacement

* See option "M" for higher speed.

Motor inertia = 0.05 kg.m²



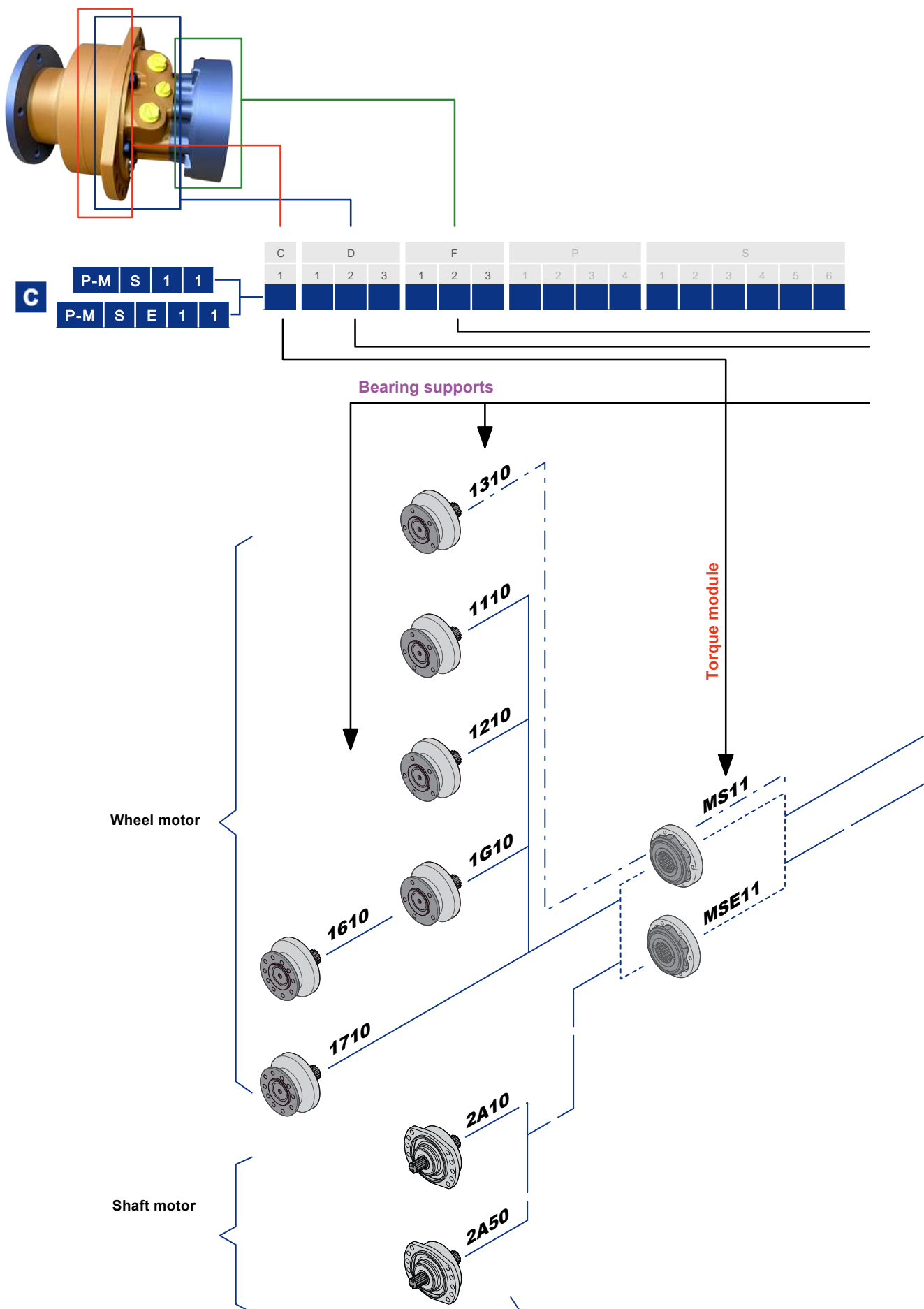
Max. power obtained at max speed, with Peek bushings.

Modularity

M

2

P-MS11.MSE11 series



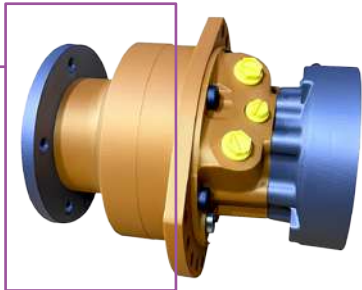
Modularity



M

3

P-MS11.MSE11 series



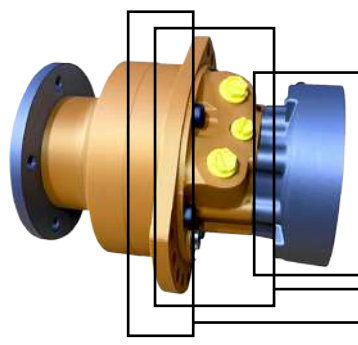
C	P-M		S	1	1	C		D			F			P				S					
						1		1	2	3	1	2	3	1	2	3	4	1	2	3	4	5	6
P-M		S	E	1	1																		

Modelcode

M

4

P-MS11.MSE11 series



C	D	F	P	S
1	1 2 3	1 2 3	1 2 3 4	1 2 3 4 5 6
P-M S 1 1				
P-M S E 1 1			0	

Came type

		①	②	
		cm ³ /tr [cu.in/rev.]		
C1	Cams with equal lobes	P-MS11	730 [44.5]	365 [22.3] 7
			837 [51.0]	418.5 [25.5] 8
			943 [57.5]	471.5 [28.8] 9
			1,048 [63.9]	524 [32.0] 0
			1,147 [70.0]	573.5 [35.0] 1
			1,259 [76.8]	629.5 [38.4] 2
	Cams with unequal lobes	P-MSE11	1,263 [77.0]	631.5 [38.5] 9
			1,404 [85.6]	702 [42.8] 0
			1,536 [93.7]	768 [46.8] 1
			1,687 [102.9]	843.5 [51.4] 2
	Cams with equal lobes	P-MS11	1,048 [63.9]	629 [38.4] A
				419 [25.6] A
	Cams with unequal lobes	P-MSE11	1,404 [85.6]	843 [51.4] A
				561 [34.2] A

- ① First displacement
② Second displacement

Valving type

D1	1-displacement valving	Ratio	2	D
	2-displacement & Twin-Lock valving (Clockwise)	Ratio < 2	E	
		Ratio > 2	F	
		Ratio > 2	G	
	2-displacement & Twin-Lock valving (Counterclockwise)	Ratio < 2	H	
		Ratio > 2	J	

Valving cover

D2	Without mounting	1	4	D
	Lug fixing	2	5	E

1 Displacement
2 Displacement
Exchange
Twin-Lock

Connection type

D3	No transmission cover			0
	ISO 6162	Flanges connections	① DN19	1
	ISO 9974-1	connections	② DN13	
	ISO 6162	Flanges connections	① DN19	2
	ISO 1179-1	connections	② DN13	
	ISO 1179-1 connections		G3/4	3
	ISO 9974-1 connections		M27 x 2	4
	ISO 6162	Flanges connections	① DN13	7
	ISO 11926-1	connections	② DN19	
	ISO 11926-1 connections		1" 1/16 - 12 UNF	A

- ① First displacement
② Second displacement

Rear brake

F1 F2 F3	Without brake	Simple plate	A11
		Reinforced plate	R11
	Brake	Screwed environmental cover	T14

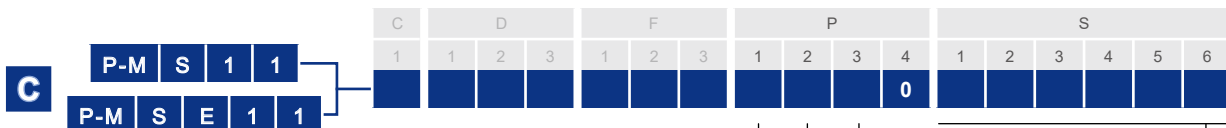
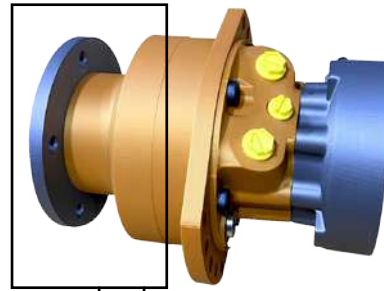


Modelcode

M

5

P-MS11.MSE11 series



Front unit

P1	Without bearing support	0
	Without mounting	1
	Lug mounting	2

Shaft Specifications

P3	Shaft type	
	Without studs	1
	With studs + nuts	2
	With studs	3
	M threaded holes	4
	Male shafts	
	NF E22-141 splines	1
	DIN 5480 splines	5

Bearing support

P2	Without shaft	0
	5 x Ø24 on Ø225	1
	10 x Ø22 on Ø225	2
	8 x Ø22 on Ø275	7
	12 x Ø20 on Ø205	3
	10 x Ø22 on Ø225	6
	10 x Ø24 on Ø225	G
	For male shaft bearing support	A

Options

S1 ~ S6	Without Options or Adaptations	0
	Fluorinated elastomer seals	1
	T4 speed sensor (without rotation direction)	2
	Brake environmental cover without plug	3
	Drainage	5
	Industrial bearing support	6
	Diamond	7
	Predisposition for speed sensor	8
	Double-centering valving cover	9
	Hollow shaft	A
	Drain on the bearing support	B
	Abrasive environment	C
	Special paint or without paint	D
	Reinforced sealing	E
	Special wheel rim mounting	G
	High performance	H
	Surface heat treatment of the shaft	J
	High speed	M
	TD speed sensor (two phase shifted frequencies)	Q
	TR speed sensor (digital rotation direction)	S
	Soft Shift	T

M

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P-MS11.MSE11 series

Important notes and warnings are indicated



Safety comment.

This document also includes essential operating instructions for the product and general information.

Expressed as follows



Essential instructions.



General information.



Information on the model number.



Weight of component without oil.



Volume of oil.



Units.



Tightening torque.







Screws.



Information intended for personnel.

The dimensional data is given in mm and in inches (inches are given in brackets in italics).



	86 kg [189 lb]	112 kg [246 lb]
	2 L [120 cu.in]	1.5 L [90 cu.in]
		

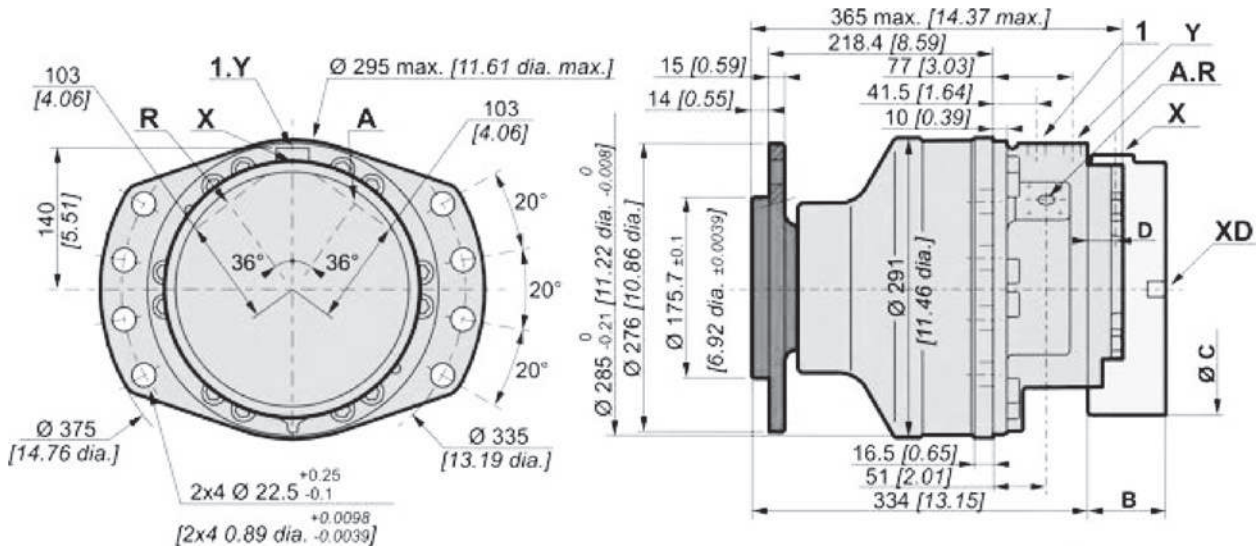
Wheel Motor



Dimensions for standard (1110) 2-displacement motor

M

7

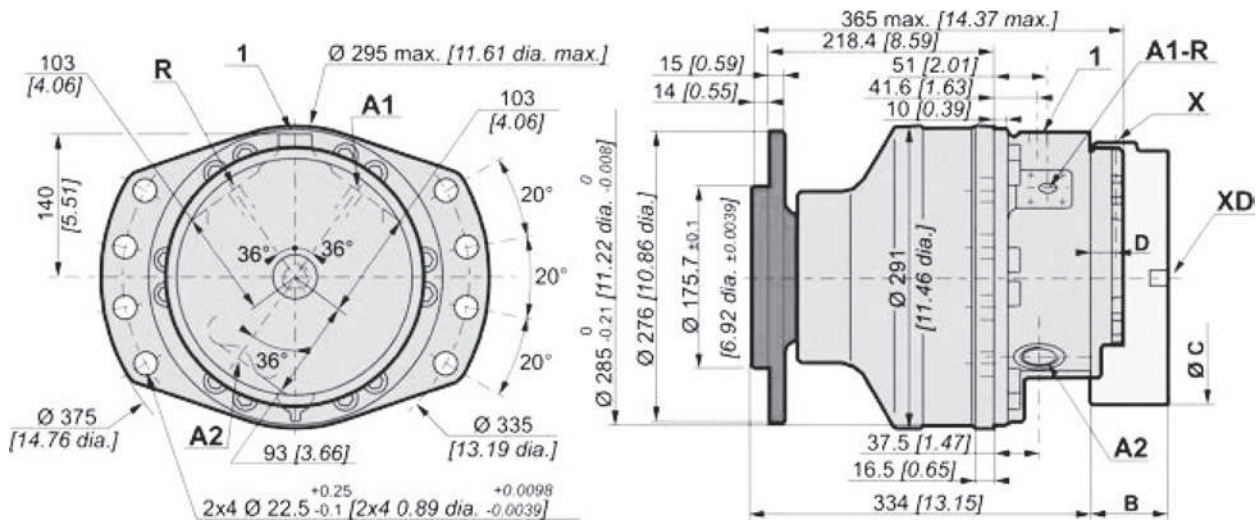
P-MS11.MSE11 series





	90 kg [198 lb]	116 kg [255 lb]
	2 L [120 cu.in]	1.5 L [90 cu.in]



Dimensions for standard (1110) Twin-Lock



	90 kg [198 lb]	116 kg [255 lb]
	2 L [120 cu.in]	1.5 L [90 cu.in]



C	T 1 4
B	87.5 [3.44]
C	Ø280 [11.02 dia.]
D	25.0 [0.96]



Also see 'Valving systems and hydrobases' section (thumbnail opposite).

Wheel Motor

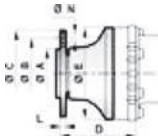
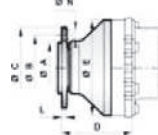
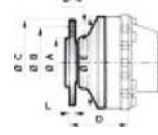
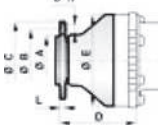
M

8

P-MS11.MSE11 series

Support types

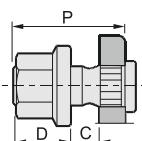
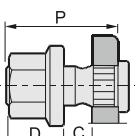
				C	D			F			P				S					
P-M	S	1	1	1	1	2	3	1	2	3	1	2	3	4	1	2	3	4	5	6
P-M	S	E	1	1																

<div>C</div>	A mm [in]	B mm [in]	C mm [in]	D mm [in]	E mm [in]	N mm [in]	Wheel rim mountings	L mm [in]	
<div><div>P</div><div><div>1</div><div>1</div><div>1</div><div>0</div></div></div>	Ø 175.7 [6.92 dia.]	Ø 225 [8.86 dia.]	Ø 276 [10.87 dia.]	218.6 [8.61]	Ø 291 [11.46 dia.]	Ø 24 [0.94 dia.]	5 x M22x1.5	14 [0.55]	
<div><div>P</div><div><div>1</div><div>2</div><div>1</div><div>0</div></div></div>	Ø 175.7 [6.92 dia.]	Ø 225 [8.86 dia.]	Ø 276 [10.87 dia.]	218.6 [8.61]	Ø 291 [11.46 dia.]	Ø 22 [0.87 dia.]	10 x M20x1.5	14 [0.55]	
<div><div>P</div><div><div>1</div><div>3</div><div>1</div><div>0</div></div><div>—</div></div>	Ø 160.7 [6.33 dia.]	Ø 205 [8.07 dia.]	Ø 250 [9.84 dia.]	174.4 [6.87]	Ø 289.5 [11.40 dia.]	Ø 20 [0.79 dia.]	12 x M18x1.5	15 [0.59]	
<div><div>P</div><div><div>1</div><div>6</div><div>1</div><div>0</div></div></div>	Ø 175.7 [6.92 dia.]	Ø 225 [8.86 dia.]	Ø 276 [10.87 dia.]	219.6 [8.65]	Ø 291 [11.46 dia.]	Ø 22 [0.87 dia.]	10 x M20x1.5	21 [0.83]	
<div><div>P</div><div><div>1</div><div>7</div><div>1</div><div>0</div></div></div>	Ø 220.7 [8.69 dia.]	Ø 275 [10.83 dia.]	Ø 314 [12.36 dia.]	218.6 [8.61]	Ø 291 [11.46 dia.]	Ø 22 [0.87 dia.]	8 x M20x1.5	14 [0.55]	
<div><div>P</div><div><div>1</div><div>G</div><div>1</div><div>0</div></div></div>	Ø 175.7 [6.92 dia.]	Ø 225 [8.86 dia.]	Ø 270 [10.63 dia.]	284.6 [11.20]	Ø 291 [11.46 dia.]	Ø 24 [0.94 dia.]	10 x M22x1.5	16 [0.63]	



The supports in gray must not be assembled with an MSE hydrobase.

Studs

		P mm [in]	C min. mm [in]	C max. mm [in]	D mm [in]	Class
	Various studs	M18 x 1.5	55 [2.17]	17 [0.67]	23 [0.91]	12.9
		M20 x 1.5	60 [2.36]	14 [0.55]	25 [0.98]	
		M22 x 1.5	65 [2.56]	24 [0.94]	26 [1.02]	
	Screws	M12	-	-	-	-



You can accumulate more than one optional part. Consult YEOSHE.



Wheel Motor

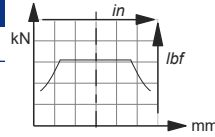
Load curves

Permissible radial loads

Test conditions :

Static : 0 tr/min [0 RPM] 0 bar [0 PSI]

Dynamic : 0 tr/min [0 RPM], code 0 displacement, without axial load at max. torque

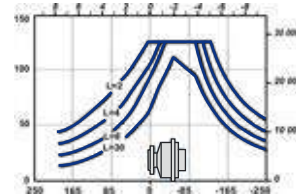
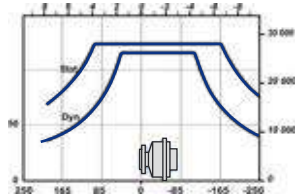


Service life of bearings

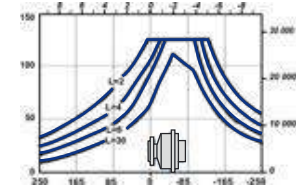
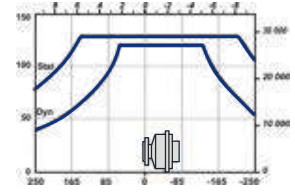
Test conditions :

L : Millions B10 revolutions at 150 bars (average pressure), with 25 cSt fluid, code 0 displacement, without axial load.

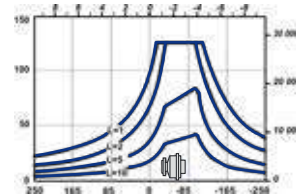
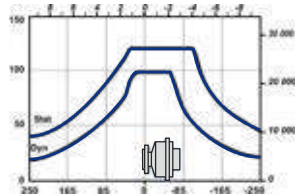
P			
1	2	3	4
1	1	1	0



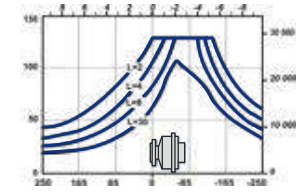
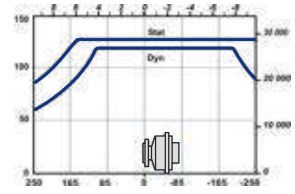
P			
1	2	3	4
1	2	1	0



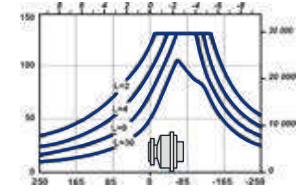
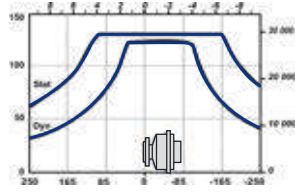
P			
1	2	3	4
1	3	1	0



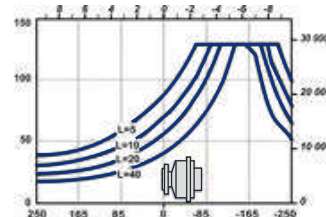
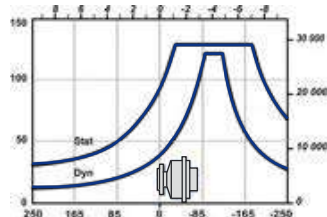
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1	6	1	0



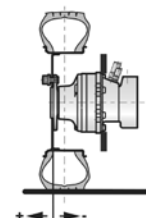
P			
1	2	3	4
1	7	1	0



P			
1	2	3	4
1	G	1	0



The service life of the components is influenced by the pressure. You must check that the combination of forces applied (Axial load / Radial load) is compatible with the permissible loads for the components, and that the resulting service lives of these components complies with the application's specifications. For an accurate calculation, consult YEOSHE.



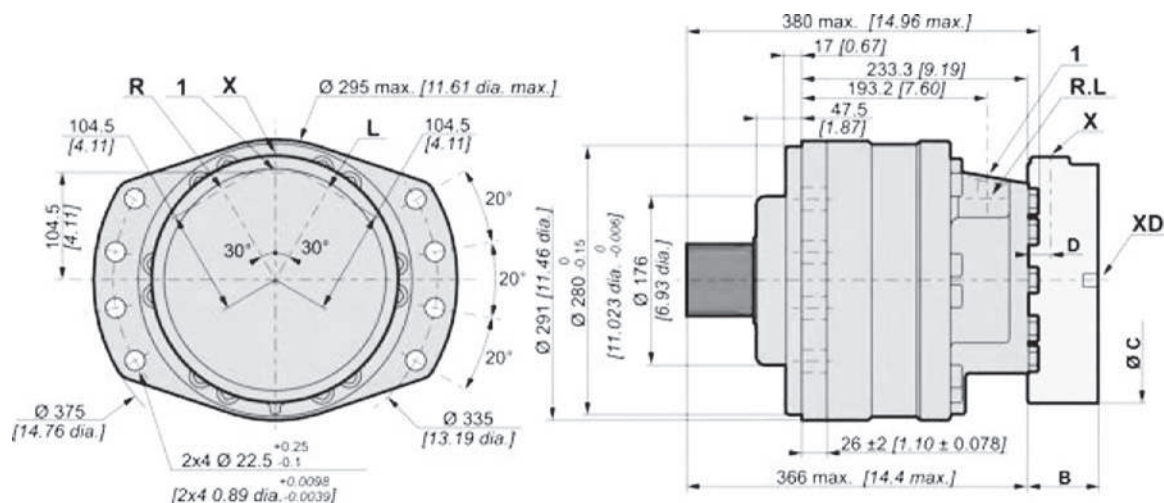
Shaft Motor





M

10

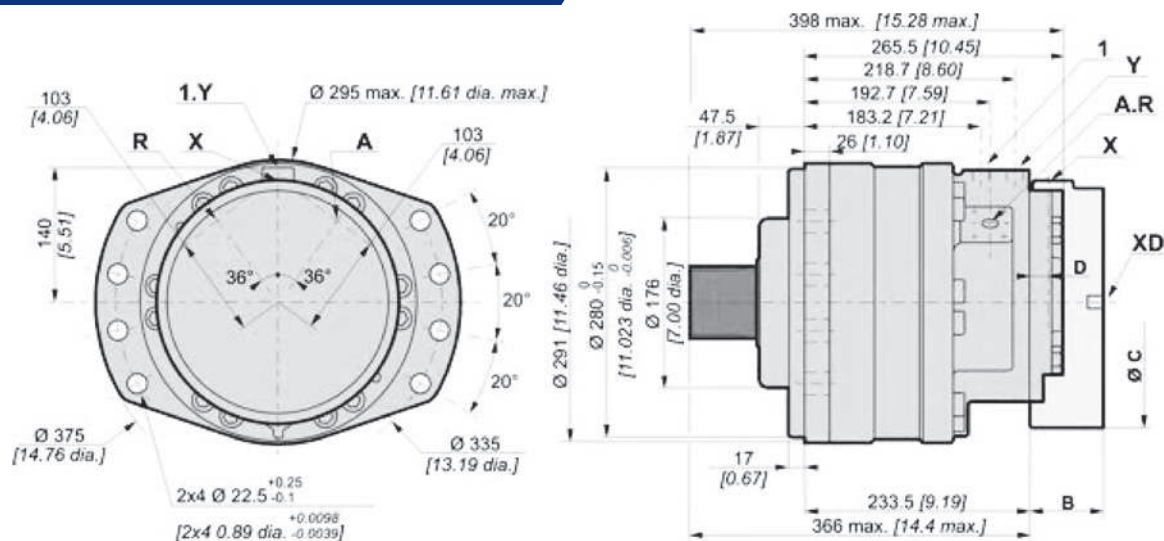
P-MS11.MSE11 series





Dimensions for standard (2A50) 1-displacement motor

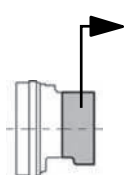


 88 kg [194 lb]	114 kg [251 lb]
 2 L [120 cu.in]	1.5 L [90 cu.in]
	

Dimensions for standard (2A50) 2-displacement motor



 88 kg [194 lb]	114 kg [251 lb]
 2 L [120 cu.in]	1.5 L [90 cu.in]
	



C	T 14
B	87.5 [3.44]
C	Ø280 [11.02]
D	25.0 [0.96]



Also see 'Valving systems and hydrobases' section (thumbnail opposite).

M

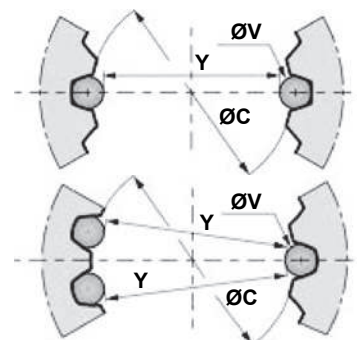
11

P-MS11.MSE11 series

A technical drawing of a mechanical component, likely a valve or actuator, with labels A through F pointing to specific parts. Label A points to the main body, B to the handle, C to the handle pin, D to the handle head, E to the handle base, and F to the handle mounting bracket.



Standard NF E22-141
Pressure angle 20°.
Centering on flanks.
Slide fit (7H quality).



Hardening treatment to obtain $R = 800$ to 900 N/mm^2 [$R = 116\ 030$ to $130\ 533 \text{ PSI}$].

Shaft Motor

M

12

P-MS11.MSE11 series

Load curves

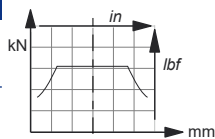
Permissible radial loads

Max. permissible loads :

0 tr/min [0 RPM] ; 0 bar [0 PSI]

Continuous permissible loads :

> 0 tr/min [> 0 RPM] ; 275 bar [3 988 PSI].

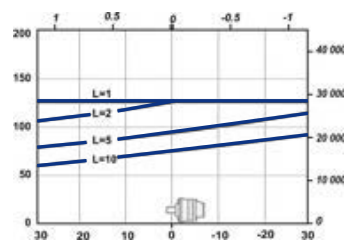
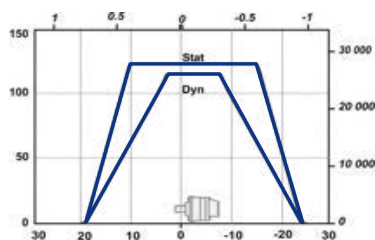


Service life of bearings

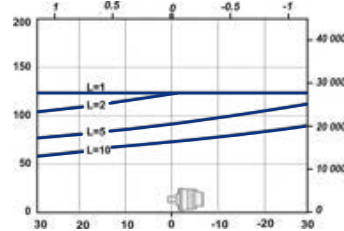
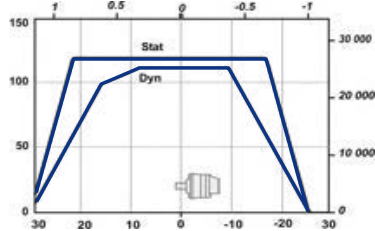
Test conditions :

L : Millions B10 revolutions at 150 bars (average pressure), with 25 cSt fluid, code 0 displacement, without axial load.

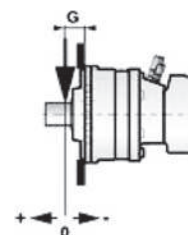
P			
1	2	3	4
2	A	1	0



P			
1	2	3	4
2	A	5	0



The service life of the components is influenced by the pressure. You must check that the combination of forces applied (Axial load / Radial load) is compatible with the permissible loads for the components, and that the resulting service lives of these components complies with the application's specifications. For an accurate calculation, consult YEOSHE.



C

G

2 A 1 0

96.75 [3.81]

2 A 5 0

101.25 [3.99]



Shaft Motor

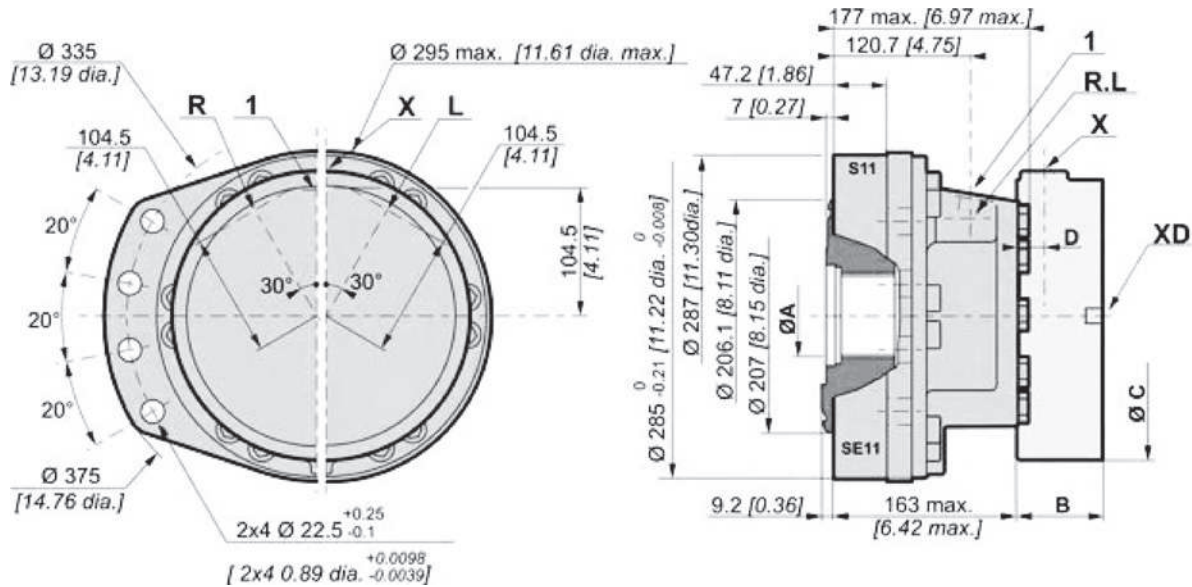
M

13

P-MS11.MSE11 series





P-M		S		1		1	
P-M	S	E	1	1	1	1	1

Dimensions for 1-displacement valving



D			D		
1	2	3	1	2	3
1	2		1	1	

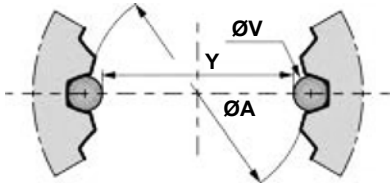
C	T 1 4
B	87.5 [3.44]
C	Ø280 [11.02]
D	25.0 [0.96]

	<table><tr><td>1</td><td>1</td><td></td></tr><tr><td>1</td><td>2</td><td></td></tr></table>	1	1		1	2		44 kg [97 lb] 48.9 kg [107.6 lb]	<table><tr><td>T</td><td>1</td><td>4</td></tr></table>	T	1	4	76.0 kg [167.2 lb] 80.9 kg [178.0 lb]
1	1												
1	2												
T	1	4											
	0.75 L [45 cu.in]		0.92 L [55 cu.in]										
													

Cylinder block splines

(as per standard NF E22-141)

Dimension on 2 pins				
ØA	Module	Z	Y	ØV
75 [2.953]	2.5	28	65.169 [2.739]	5 [0.197]



You are advised to have the installation validated by YEOSHE application engineer before using the hydraulic unit in an application.



We must provide you with a detailed plan of the interface for any hydraulic unit use, consult YEOSHE .

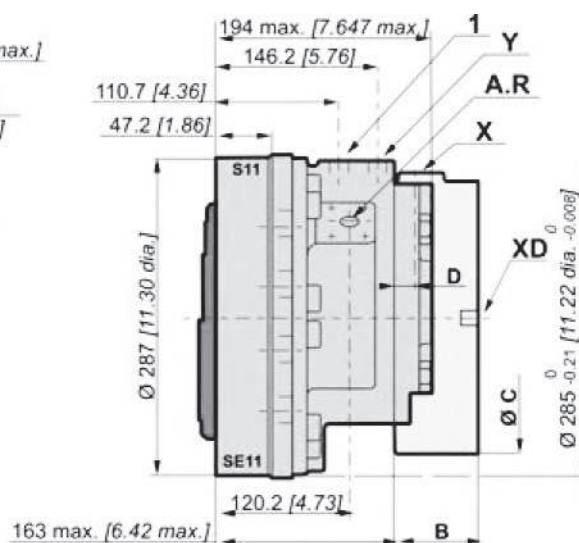
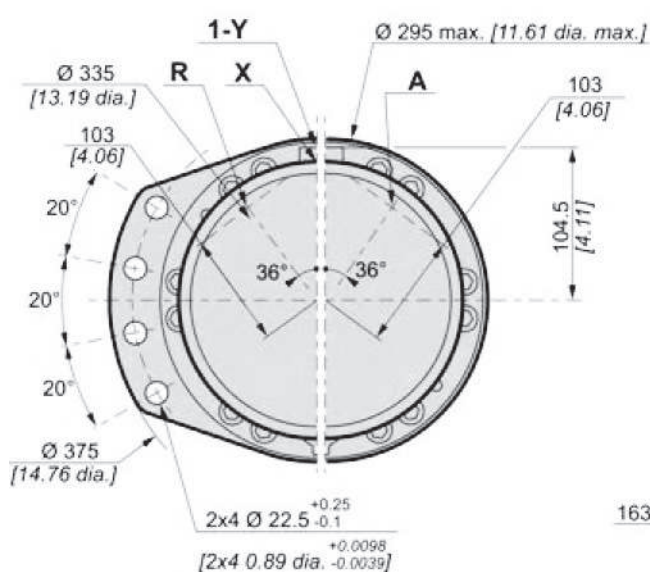
Valving Systems and Hydrobases

M

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P-MS11.MSE11 series

Dimensions for 2-displacement valving

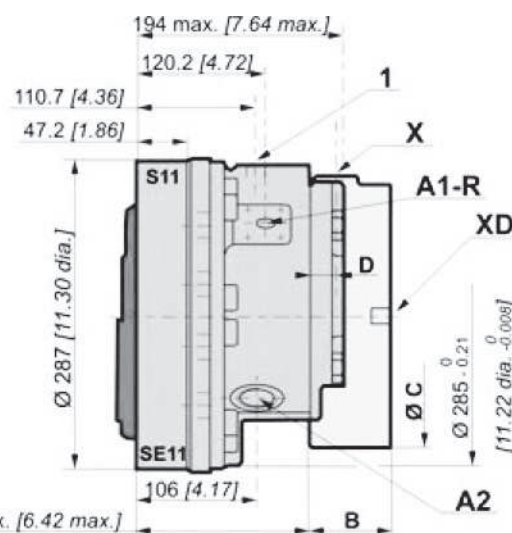
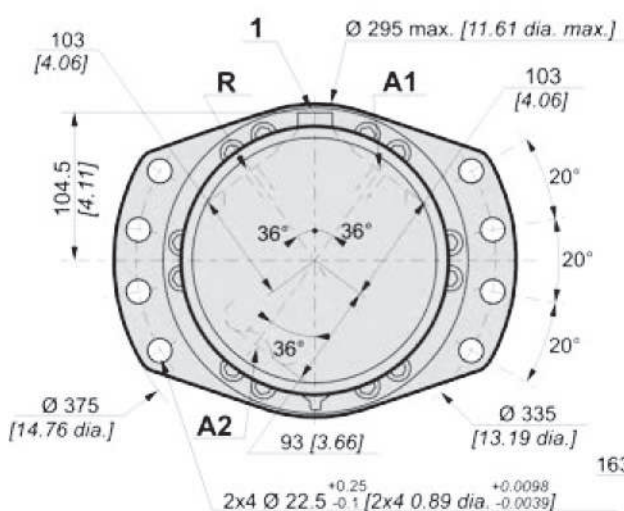


D		
1	2	3
2	2	

D		
1	2	3
2	1	

	2 1	44 kg [97 lb]	T 1 4	76.0 kg [167.2 lb]
	2 2	48.9 kg [107.6 lb]		80.9 kg [178.0 lb]
	0.75 L [45 cu.in.]		0.92 L [55 cu.in.]	

Dimensions for Twin-Lock valving



D		
1	2	3
2	E	

C	T 1 4
B	87.5 [3.44]
C	Ø280 [11.02]
D	25.0 [0.96]

	2 E	48.9 kg [107.6 lb]	T 1 4	80.9 kg [178.0 lb]
	0.75 L [45 cu.in.]		0.92 L [55 cu.in.]	



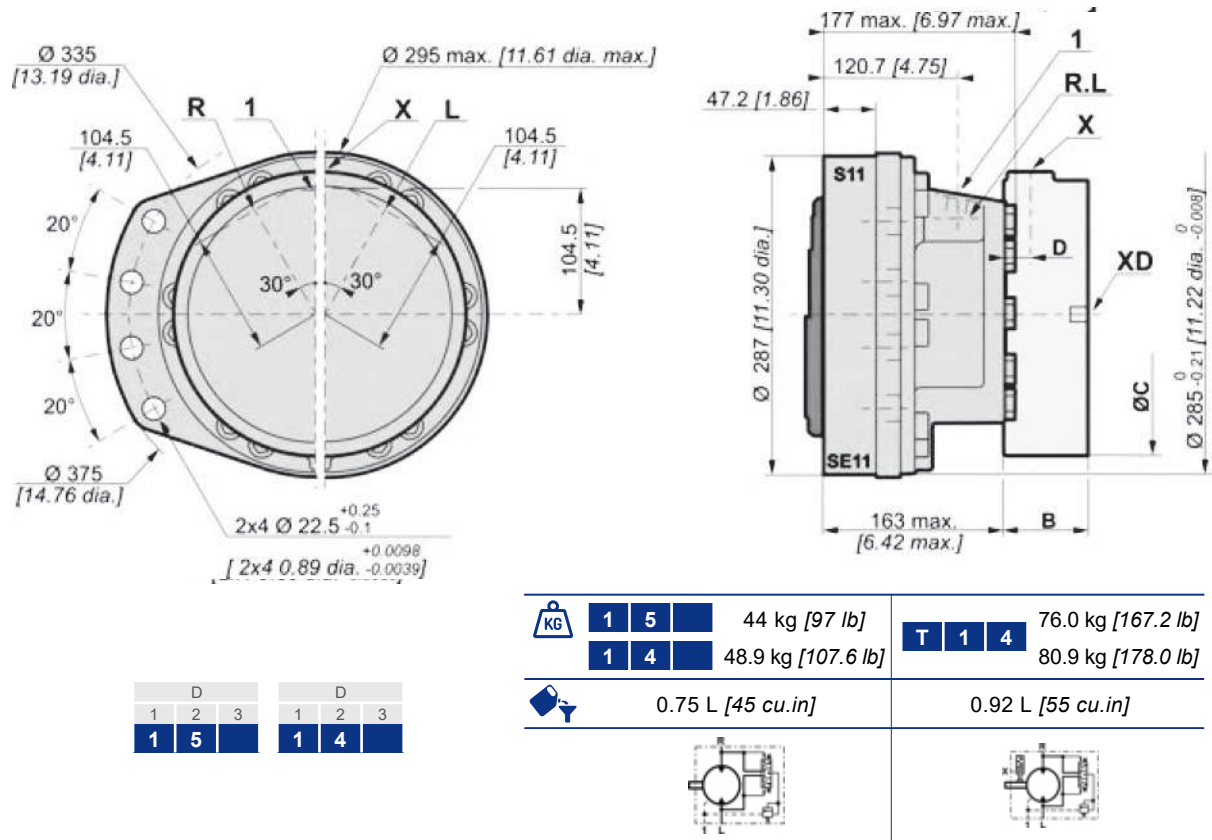
Valving Systems and Hydrobases

M

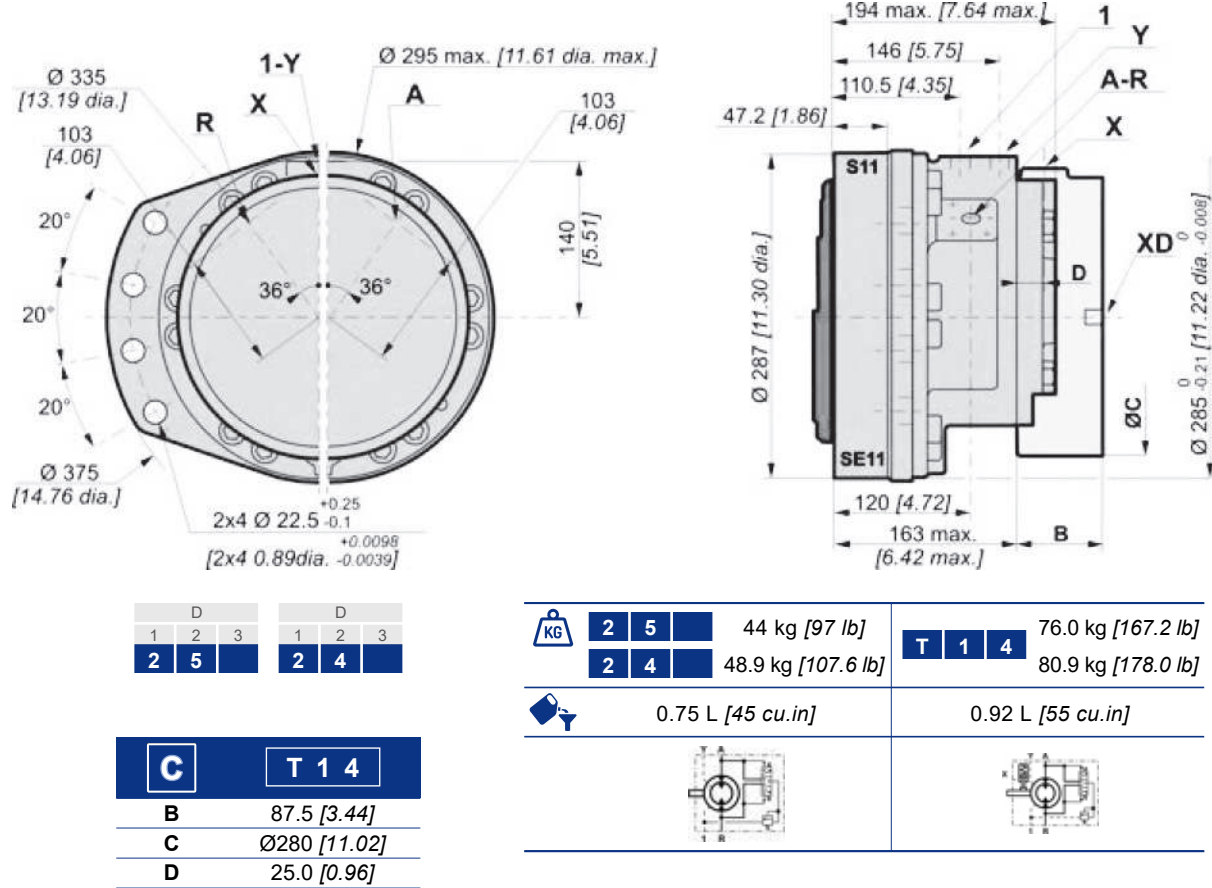
15

P-MS11.MSE11 series

Dimensions for 1-displacement valving with built-in exchange



Dimensions for 2-displacement valving with built-in exchange



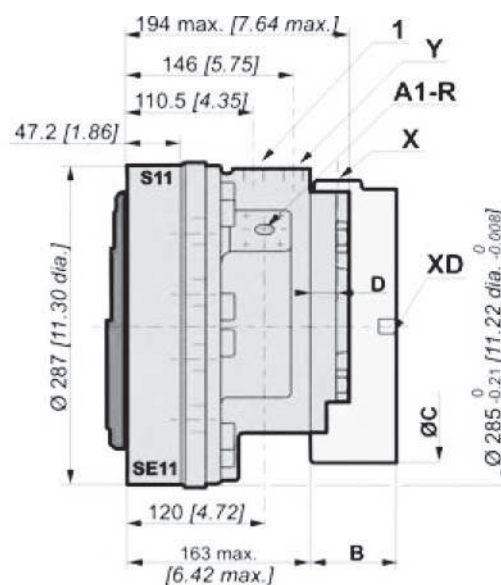
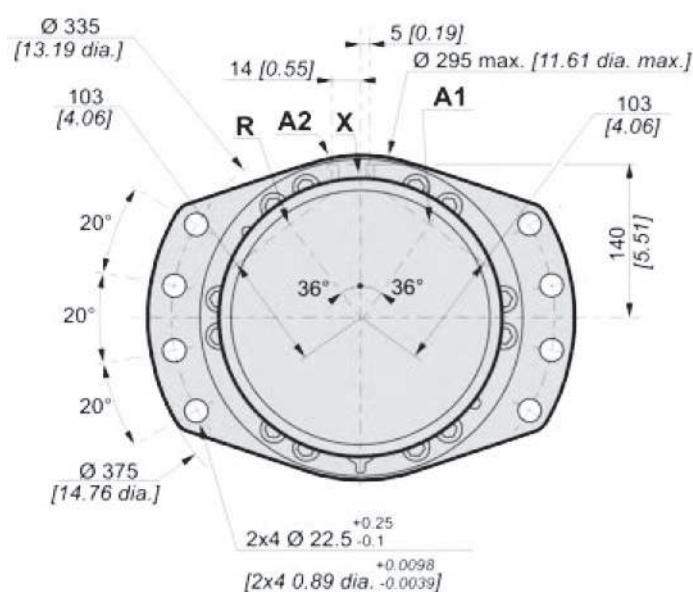
Valving Systems and Hydrobases

M

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P-MS11.MSE11 series

Dimensions for 2-displacement valving or Twin-Lock valving



D		
1	2	3
2	Q	

48.9 kg [107.6 lb]	T 1 4 80.9 kg [178.0 lb]
0.75 L [45 cu.in]	0.92 L [55 cu.in]

Exchange

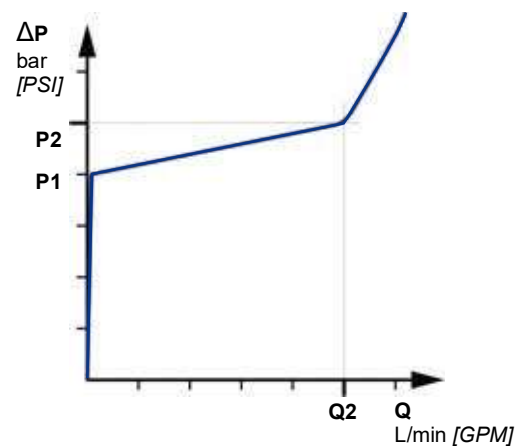
When a coding request is made, you must specify information on the threshold of the selector and the valve.

Selector spool

Selector threshold bar [PSI]	Opening pressure of selector bar [PSI]
8 [116]	9.9 ± 1.2 [144 ± 17]

Fitted valve

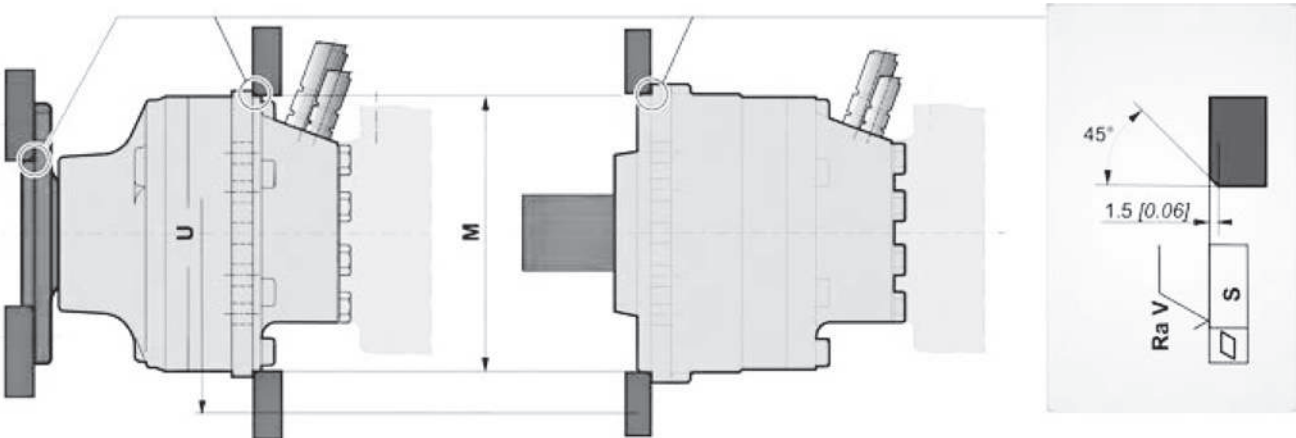
P1 bar [PSI]	Q2 L/min [GPM]	P2 bar [PSI]
13.5 [195]	14 [3.7]	16 [232]
18 [261]	15 [3.9]	21 [305]
22 [319]	16 [4.2]	25 [363]






Valving Systems and Hydrobases

Chassis mountings

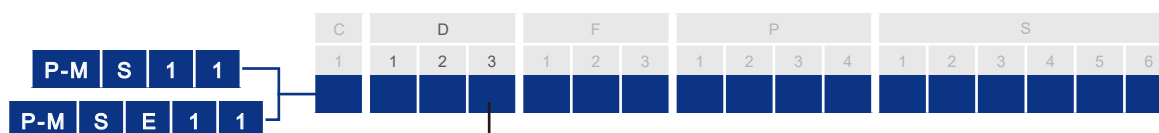
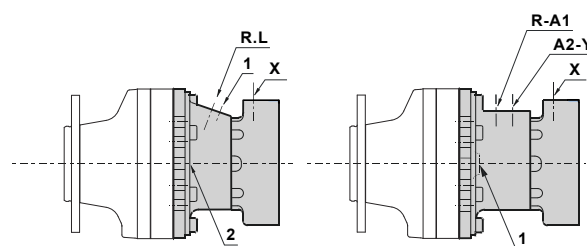


Take care over the immediate environment of the connections.

	Ø M ⁽¹⁾	Ø U	S	Ra V		Class
Wheel motor	285 [11.22]	335 [13.19]	0.2 [0.008]	12.5µm [0.49µin]	2 x 4 M20 x 4	8.8
Shaft motor ⁽¹⁾ +0.3 [+0.012] +0.2 [+0.008]	280 [11.02]	335 [13.19]				

Valving Systems and Hydrobases

Hydraulic connections



	Old standards	Standards	Power supply		Case drain	2 nd displacement control	Control of parking brake
1 displacement	A	SAE J514	ISO 11 926-1	R - L	1" 1/16-12 UNF	1 - 2	X
	1	ISO 6162	ISO 6162				
		DIN 3852	ISO 9974-1				
	2	ISO 6162	ISO 6162				
		BSPP	ISO 1179-1				
	3	BSPP	ISO 1179-1				
	7	SAE J514	ISO 11 926-1				
2 Displacement	A	SAE J514	ISO 11 926-1	R - A	1" 1/16-12 UNF	1 - 2	Y
	1	ISO 6162	ISO 6162				
		DIN 3852	ISO 9974-1				
	2	ISO 6162	ISO 6162				
		BSPP	ISO 1 179-1				
Twin-Lock	A	SAE J514	ISO 11 926-1	R - A1	A2	1 - 2	Y
	5	ISO 6162	ISO 6162				
		DIN 3852	ISO 9 974-1				
	5	NF E48 050	ISO 9 974-1				

ISO 9 974-1

Max. pressures	P-MS	bar [PSI]	450 [6,527]	450 [6,527]	1 [15]	30 [435]	30 [435]
	P-MSE		400 [5,802]	400 [5,802]			



To find the connections' tightening torques, see the brochure "Installation guide" N° B61352L.



You are strongly advised to use the fluids specified in brochure "Installation guide" N°B61352L.



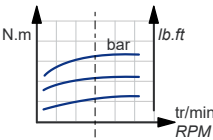
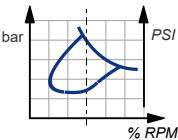
Do not put either a check valve or a poppet valve on the pilot lines (parking brake and displacement change) between the charge pump and the pilot valve. Do not use a piloting valve with integrated check valve.



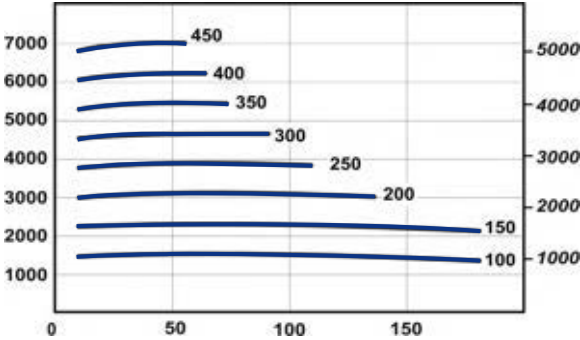
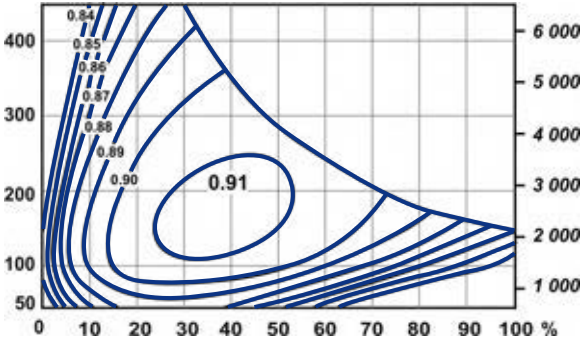
Valving Systems and Hydrobases

Efficiency

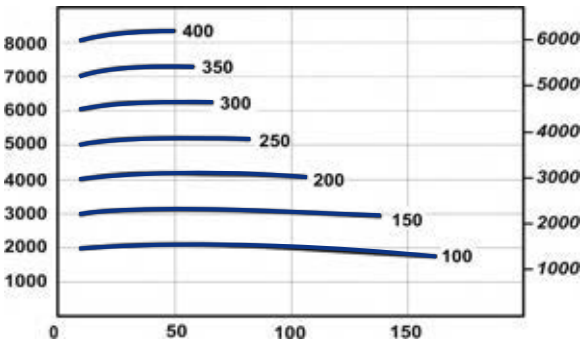
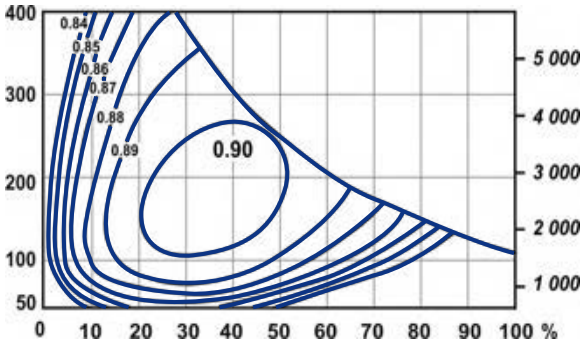
Overall efficiency	Actual output torque
Average values given for guidance for code 0 displacement after 100 hours of operation with HV46 hydraulic fluid at 50°C [122°F].	



P-MS11



P-MSE11



For a precise calculation, consult YEOSHE.

Brakes

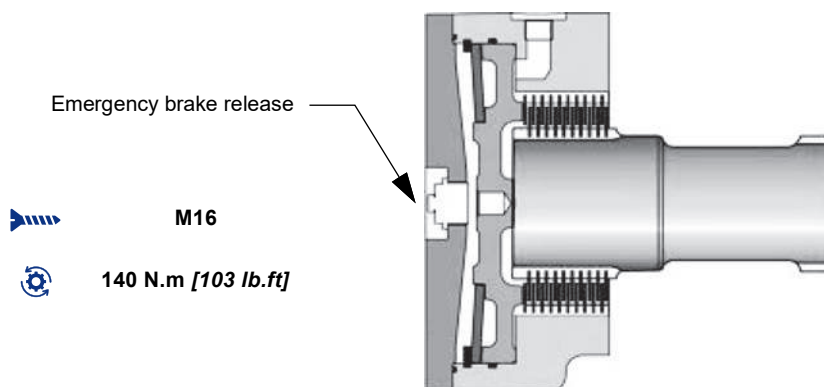
M

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P-MS11.MSE11 series

P-M S 1 1				C	D				F			P				S					
				1	1	2	3		1	2	3	1	2	3	4	1	2	3	4	5	6
P-M S E 1 1									T	1	4										

Rear brake



Brake principle

This is a multidisc brake which is activated by a lack of pressure. The spring exerts a force on the piston, which presses on the fixed and mobile discs, and immobilizes the shaft. The braking torque decreases in linear proportion to the brake release pressure.

C	T 1 4
Parking brake torque at 0 bars on housing (newbrake)	11,840 Nm [8,730 lb.ft]
Dynamic emergency braking torque at 0 bars on housing (max.10uses of emergency brakes)	7,695 Nm [5,680 lb.ft]
Residual parking braking at 0 bars on housing *	8,880 Nm [6,550 lb.ft]
Min. brake release pressure	12 bar [174 PSI]
Max. brake release pressure	30 bar [435 PSI]
Oil capacity	170 cm ³ [10.4 cu.in]
Volume for brake release	40 cm ³ [2.4 cu.in]
Max. energy dissipation	123 699 J

* After emergency brake has been used



Do not run-in the multidisc brakes.



A functional check of the parking brake must be carried out each time it is used as an auxiliary brake (or emergency brake). For all vehicles capable of speeds over 25 km/h, please contact YEOSHE.

Options



P-M		S	1	1	C			D			F			P				S					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

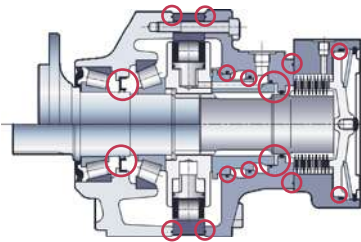


You can accumulate more than one optional part.
Consult YEOSHE .

1

Fluorinated elastomer seals

Nitrile seals marked in the figure below replaced by fluorinated elastomer seals.



Consult YEOSHE sales engineer.

2

S

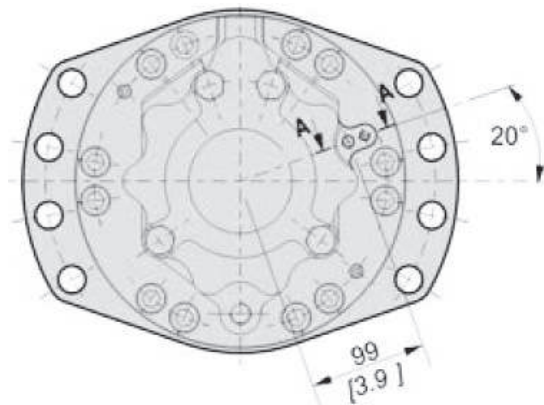
Q

8

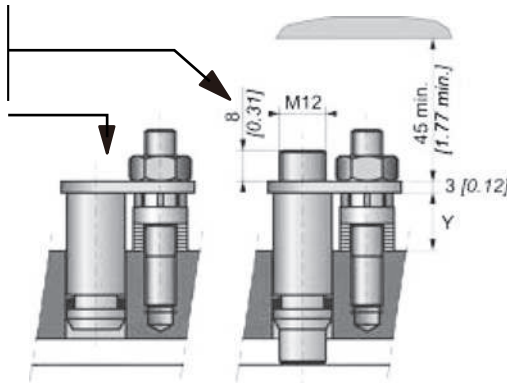
Installed speed sensor or predisposition

Designation

Designation	C
T4 speed sensor (without rotation direction)	2
TR speed sensor (digital rotation direction)	S
TD speed sensor (two phase shifted frequencies)	Q
Predisposition for speed sensor	8



A-A



Max. length Y = 20.9

Standard number of pulses per revolution = 56



Look at the "Mobile Electronic" N° A01889D technical catalogue for the sensor specifications and its connection.



To install the sensor, see the "Installation guide" brochure No. B61352L.

M

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P-MS11.MSE11 series

Options

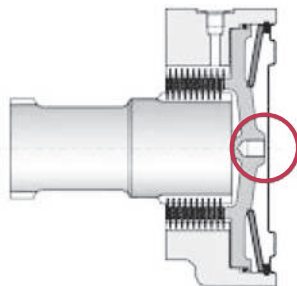
M

22

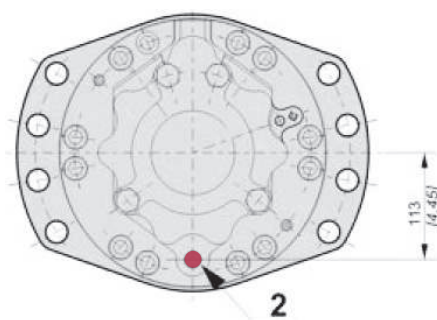
P-MS11.MSE11 series

3 Brake environmental cover without plug

No plug or hole in the cover.

**5** Drainage

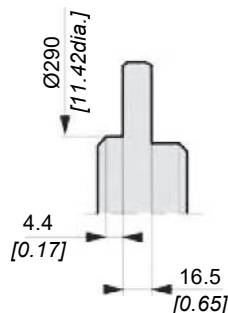
Additional drain in the cover.

**7** Diamond

Special treatment of the motor core which considerably increases its strength, making the motor much more tolerant to temporary instances of the operating conditions being exceeded.

9 Double-centering valving cover

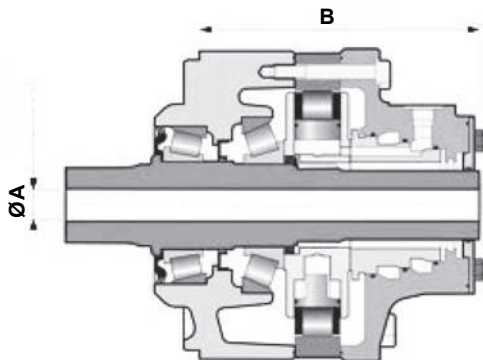
This option allows a motor to be installed from the front or the back.





Options

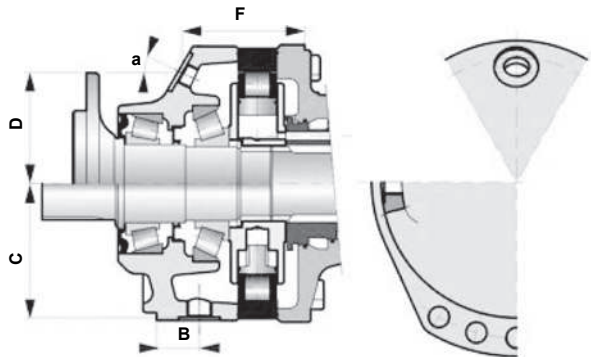
A Hollow shaft



A mm [in]	B mm [in]
Ø 45 [1.77 dia.]	247.5 [9.74]

Radial load x 0.75
No torque transmittable to the rear

B Drain on the bearing support



Wheel motor	ISO	B mm [in]	C mm [in]	D mm [in]	F mm [in]	a
Shaft motor	M18 x 1.5	32.5 [1.28]	143 [5.63]			
Wheel motor	M18 x 1.5			112 [4.41]	112.5 [4.43]	30°

C Abrasive environments

(mechanical seal)

Certain environments can be very harmful. The mirror seal gives reinforced motor sealing.

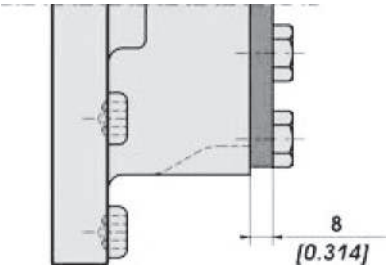


Consult YEOSHE sales engineer.

E Reinforced sealing

Requires reinforcement of shaft bearings.

P-M					S	1	1	C	D			F			P				S					
1	1	1	1	1	1	1	1	1	1	2	3	1	2	3	1	2	3	4	1	2	3	4	5	6
P-M	S	E	1	1					R	1	1													



Options

M

24

P-MS11.MSE11 series

G Special wheel rim mounting

Enables certain combinations different from the standard mountings defined on pages 11 and 13.



Consult YEOSHE sales engineer.

H High efficiency

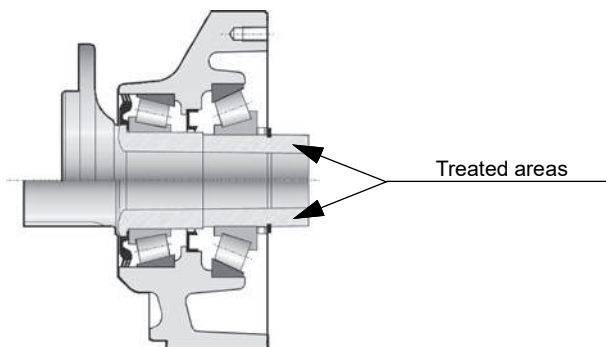
Reinforced piston sealing to improve volumetric efficiency.



For a precise calculation, consult YEOSHE application engineer.

J Treated shaft

Heat treatment on the indicated bearing radius and splines.

**M** High speed

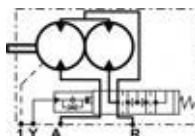
Under certain conditions, an increase in the maximum speed of 30% above the values indicated in the table on page 2 is possible.



For a precise calculation, consult YEOSHE application engineer.

T Soft Shift

Progressive displacement change (cushioned slide-valve).



Consult YEOSHE sales engineer

YEOSHE BEST CHOICE
Innovative Technology

Efficient Performance
Reliable Quality and Service



油聖液壓科技有限公司

YEOSHE HYDRAULICS TECHNOLOGY CO.,LTD.

413 台灣台中市霧峰區霧工一路68號

No.68, Wugong 1st Rd., Wufong Dist., Taichung City, Taiwan, 413

TEL +886-4-23332339 **FAX** +886-4-23333817 **E-mail** yeoshe@yeoshe.com.tw

東莞辦事處 Dongguan

CP +86-13600266957 (Miss Zhong)

E-mail yeoshe@yeoshe.com.tw

上海辦事處 Shanghai

CP +86-15021931394 (Mr. Wu)

CP +86-18939716986 (Mr. Chen)

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