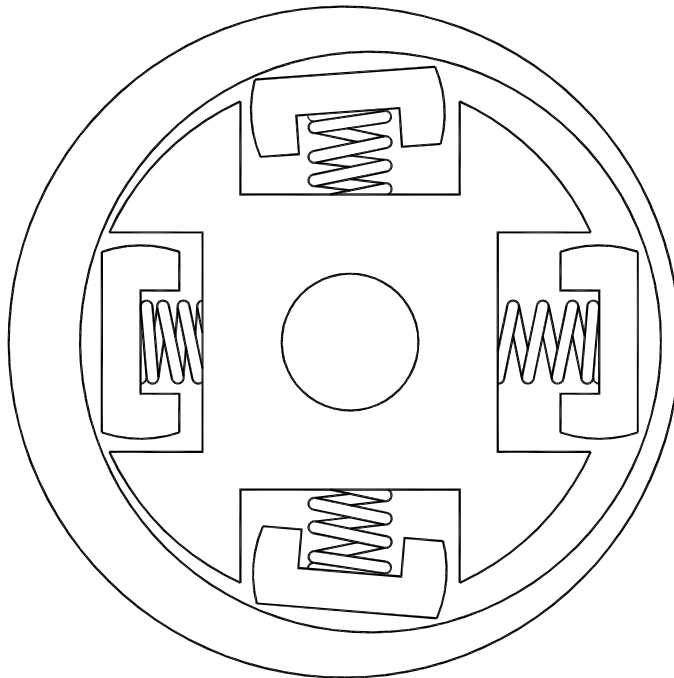


Reversible vane pumps for low pressure





Reversible vane pumps for low pressure Models B and BC Flange mounting



Applications

To be directly mounted on reducers, gearboxes, low pressure circulation systems...

Technical data

The pumps can operate within a wide range of viscosities.

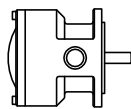
When using viscous oils it is important to choose a low rpm drive rotation and to increase the pump size.

They are reversible, they include a reverse system without valves and they continue providing flow rates when the drive shaft changes the rotation direction without varying the suction and outlet pipes.

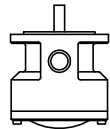
Lubricant..... mineral and synthetic oils
 Operating viscosity..... 40÷1000 cSt
 Working temperature..... -15°C÷+100°C
 Maximum working pressure 3 bar
 Maximum suction height..... 700 mm
 rpm.....maximum 3000 / minimum 50

Mounting position:

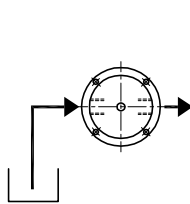
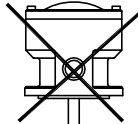
Horizontal



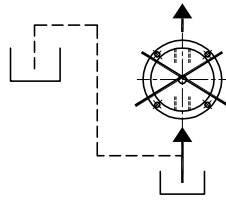
Vertical with shaft pointing upwards



Do NOT mount in a vertical position with shaft pointing downwards. Use model V for this type of mounting.



Groups mounted in this position are self-priming.



Groups mounted in this position are NOT self-priming. They need to be placed at a lower level in relation to the tank.

The pumps are self-priming up to 700 mm high with free outlet. Therefore it is necessary to design correctly the suction pipe.

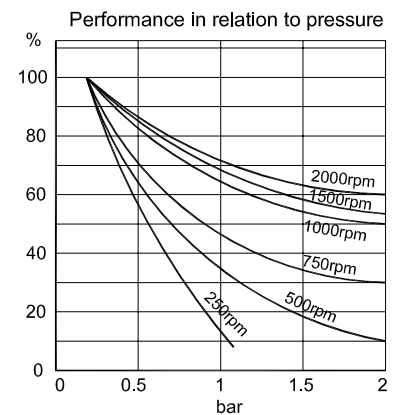
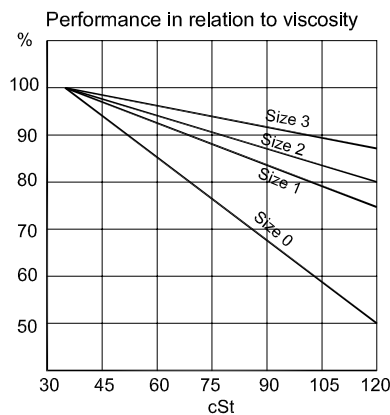
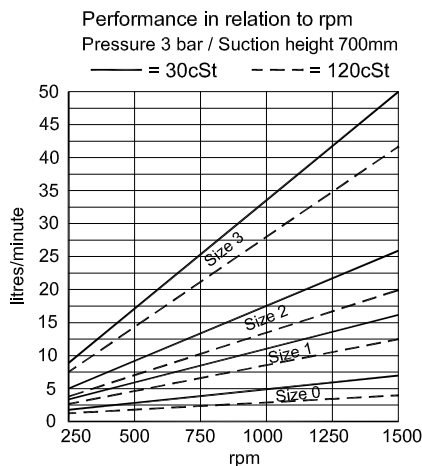
Recommended minimum dimensions:

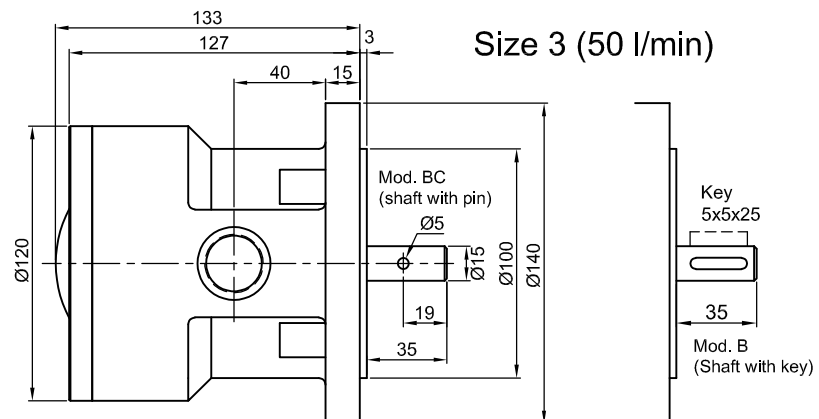
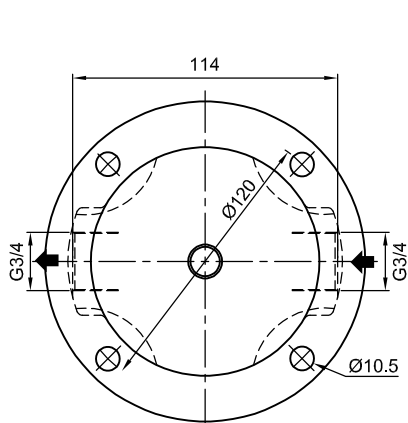
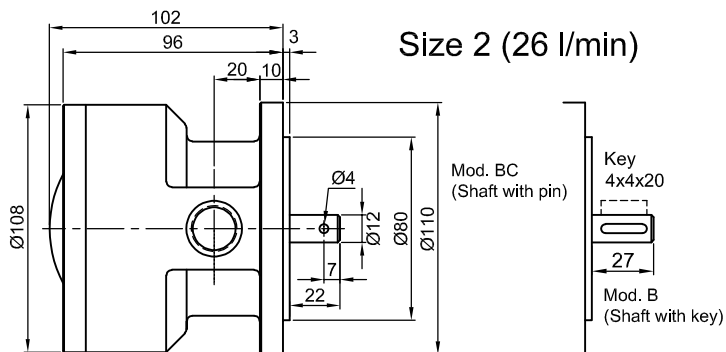
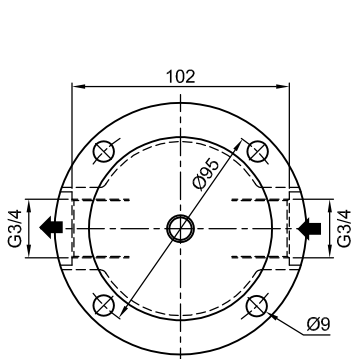
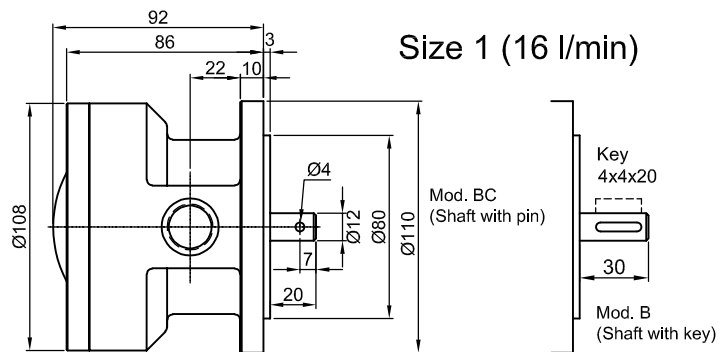
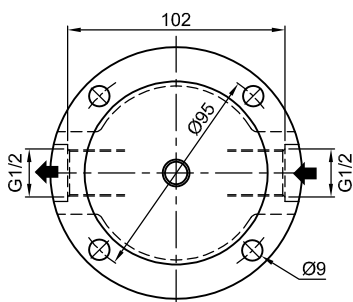
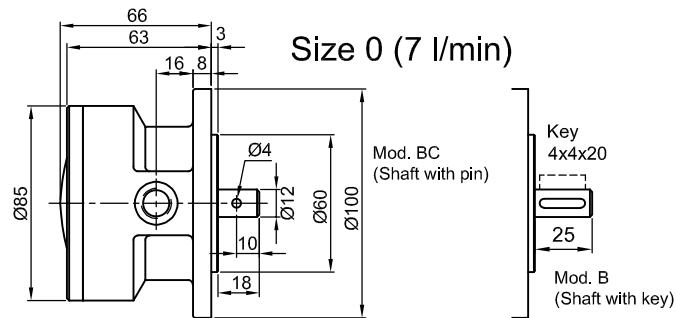
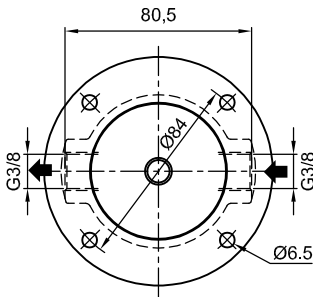
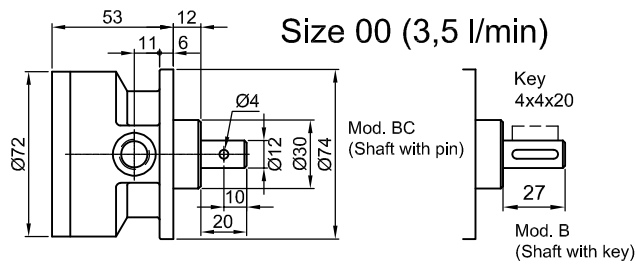
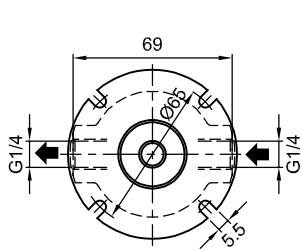
- Size 00 = Suction pipe Ø12x10
- Size 0 = Suction pipe Ø15x13
- Size 1 = Suction pipe Ø22x20
- Size 2 = Suction pipe Ø28x25
- Size 3 = Suction pipe Ø42x36

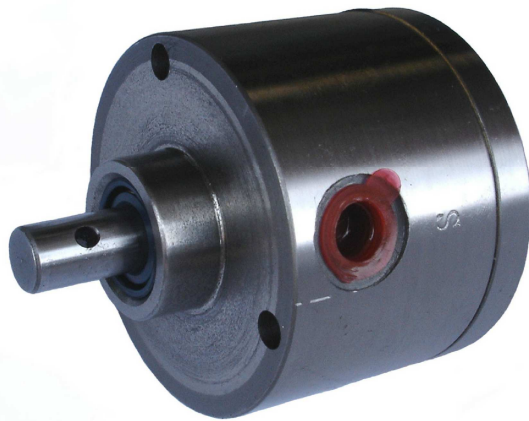
The same pipe Ø as in suction should be used on the pressure side.

25 X X X 0000

Model	Pressure relief valve	Size	Flow rate
0 ModeloB (shaft with key)	0 Without	8 00	3,5 l/min
		0 0	7 l/min
1 Model BC (shaft with pin)	0 Without 5 With	1 1	16 l/min
		2 2	26 l/min
		3 3	50 l/min







Reversible vane pumps for low pressure



Model MH

Flange mounting

Applications

To be directly mounted on reducers, gearboxes, low pressure circulation systems...

Technical data

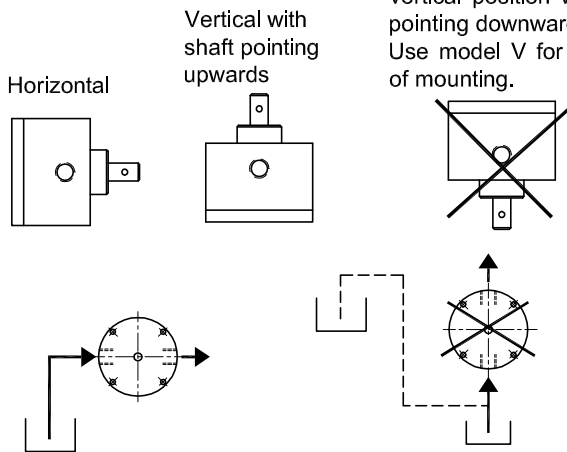
The pumps can operate within a wide range of viscosities.

When using viscous oils it is important to choose a low rpm drive rotation and to increase the pump size.

They are reversible, they include a reverse system without valves and they continue providing flow rates when the drive shaft changes the rotation direction without varying the suction and outlet pipes.

Lubricant..... Mineral and synthetic oils
 Operating viscosity..... 40÷1000 cSt
 Working temperature..... -15°C÷+100°C
 Maximum working pressure..... 3 bar
 Maximum suction height..... 700 mm
 rpm..... Maximum 3000 / minimum 50

Mounting position:



Do NOT mount in a vertical position with shaft pointing downwards. Use model V for this type of mounting.

Groups mounted in this position are self-priming.

Groups mounted in this position are NOT self-priming. They need to be placed at a lower level in relation to the tank.

The pumps are self-priming up to 700 mm high with free outlet. Therefore it is necessary to design correctly the suction pipe.

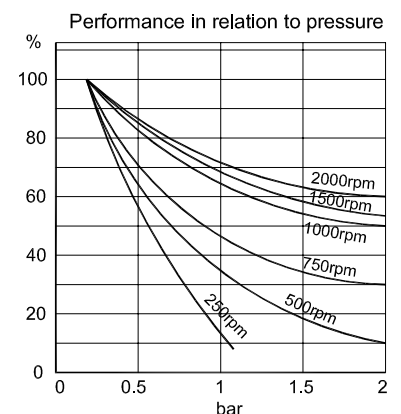
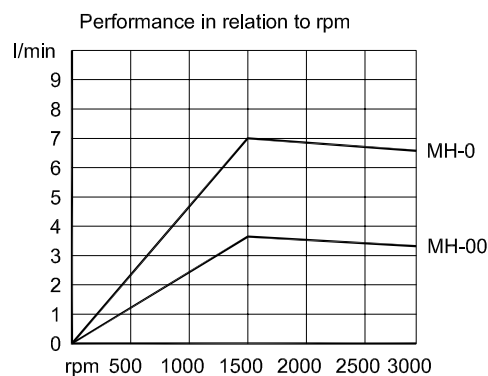
Recommended minimum dimensions:

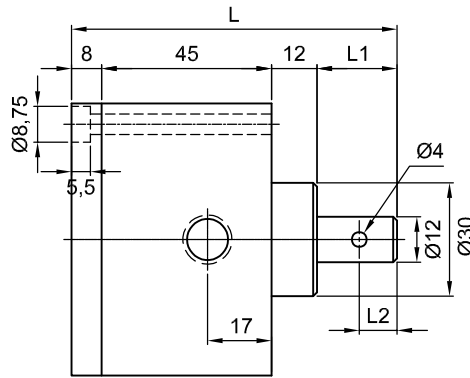
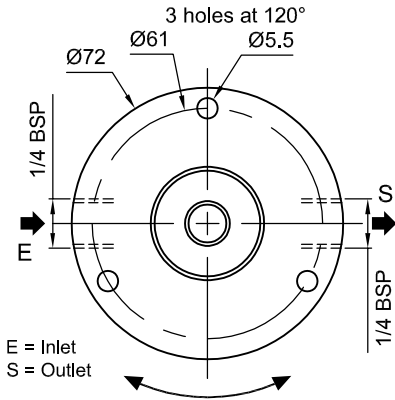
- Size 00 = Suction height Ø12x10
- Size 0 = Suction height Ø15x13

The same pipe Ø as in suction should be used on the pressure side.

2 5 3 X X X 0 0 0

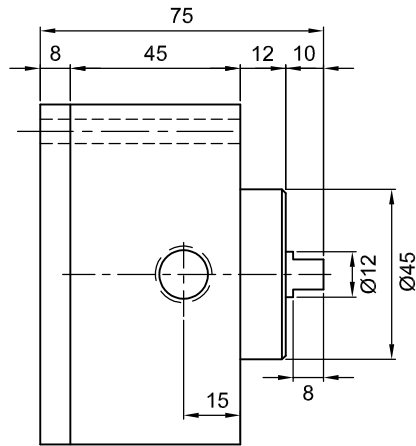
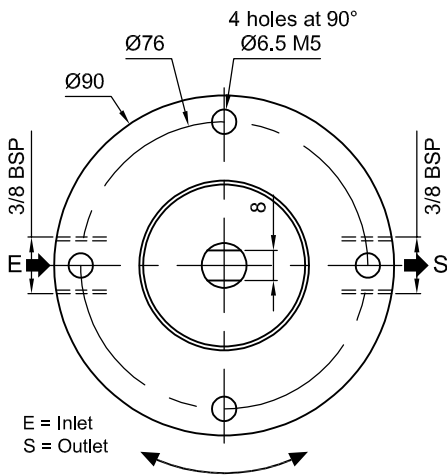
Type	Size / Flow rate	Drive shaft
0 Reversible	8 MH-00 (3,5 l/min) 0 MH-0 (7 l/min)	0 Short
1 Non reversible	8 MH-00 (3,5 l/min)	1 Long (for motor)





MH-00

Drive shaft	L	L1	L2
Short	85.5	20	10
Long	104.5	39	7



MH-0



Reversible vane pumps for low pressure



Model V

Flange mounting

Applications

To be directly mounted on reducers, gearboxes, low pressure circulation systems...

Technical data

The pumps can operate within a wide range of viscosities.

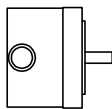
When using viscous oils it is important to choose a low rpm drive rotation and to increase the pump size.

They are reversible, they include a reverse system without valves and they continue providing flow rates when the drive shaft changes the rotation direction without varying the suction and outlet pipes.

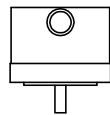
Lubricant..... Mineral and synthetic oils
 Operating viscosity..... 40÷1000 cSt
 Working temperature..... -15°C÷+100°C
 Maximum working pressure..... 3 bar
 Maximum suction height..... 700 mm
 rpm..... Maximum 3000 / minimum 50

Mounting position:

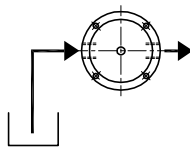
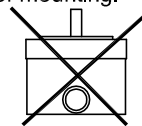
Horizontal



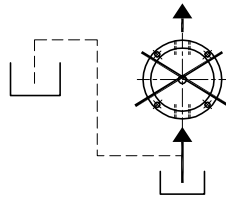
Vertical with the shaft pointing downwards



Do NOT mount in a vertical position with shaft pointing downwards. Use model B for this type of mounting.



Groups mounted in this position are self-priming.



Groups mounted in this position are NOT self-priming. They need to be placed at a lower level in relation to the tank.

The pumps are self-priming up to 700 mm high with free outlet. Therefore it is necessary to design correctly the suction pipe.

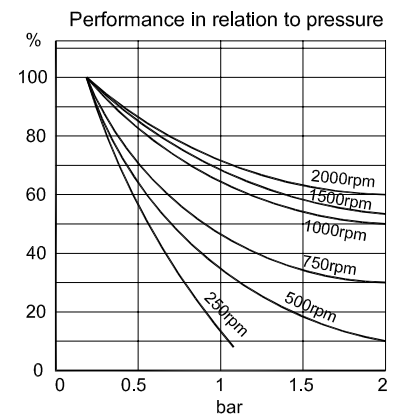
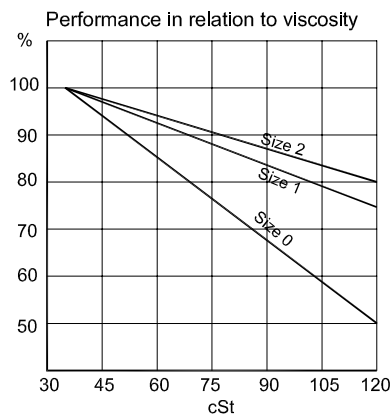
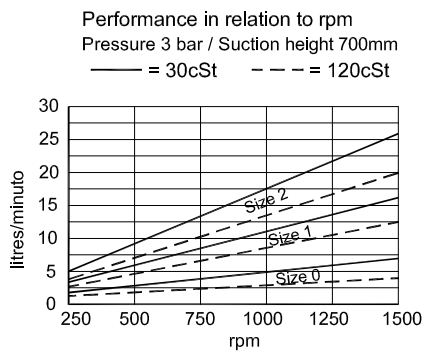
Recommended dimensions:

- Size 00 = Suction pipe Ø12x10
- Size 0 = Suction pipe Ø15x13
- Size 1 = Suction pipe Ø22x20
- Size 2 = Suction pipe Ø28x25

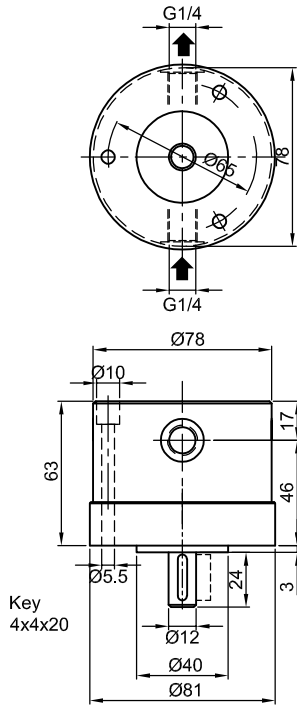
The same pipe Ø as in suction should be used on the pressure side.

2 5 X X X 0 0 0 0

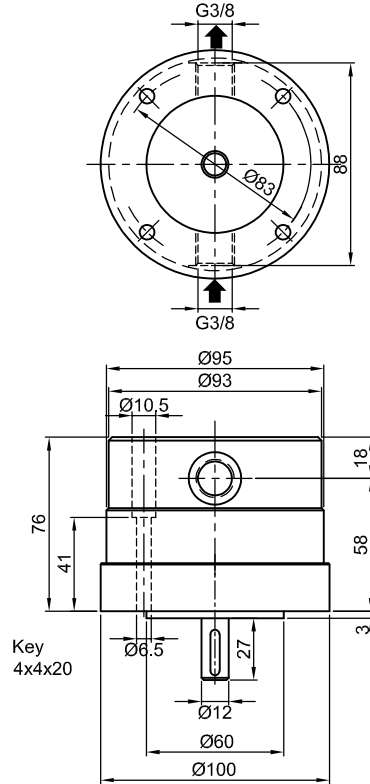
Model	Pressure relief valve	Size	Flow rate
② Model V	① Without	⑧ 00	3.5 l/min
		① 0	7 l/min
		① 1	16 l/min
		② 2	26 l/min



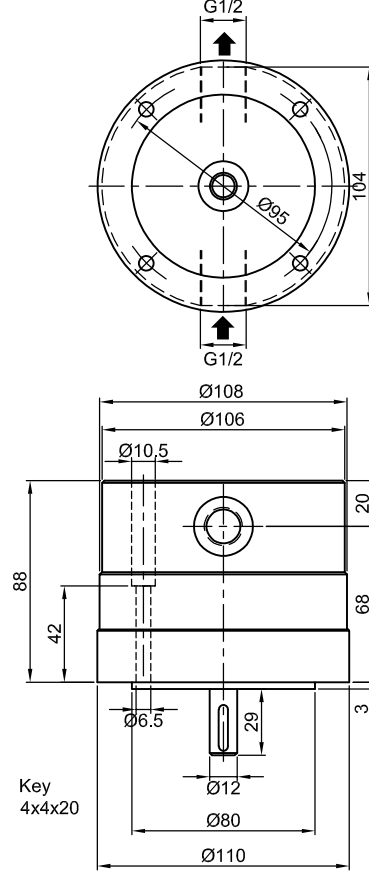
Size 00
 (3,5 l/min)



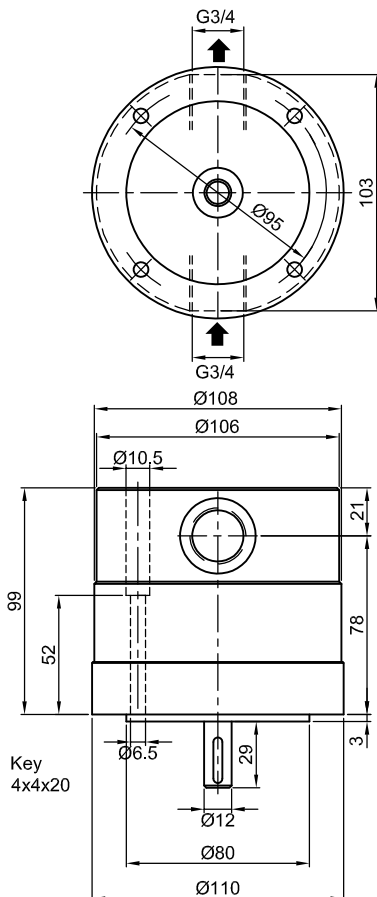
Size 0
 (7 l/min)



Size 1
 (16 l/min)



Size 2
 (26 l/min)





Reversible vane pumps for low pressure



Model E

Direct mounting on shaft

Applications

To be directly mounted on reducers, gearboxes, low pressure circulation systems...

Technical data

The pumps can operate within a wide range of viscosities.

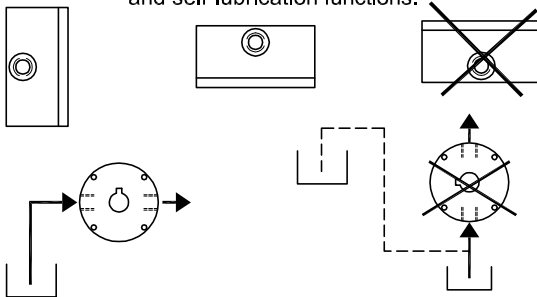
When using viscous oils it is important to choose a low rpm drive rotation and increase the pump size.

They are reversible, they include a reverse system without valves and they continue providing flow rates when the drive shaft changes the rotation direction without varying the suction and outlet pipes.

Lubricant..... Mineral and synthetic oils
 Operating viscosity..... 40÷1000 cSt
 Working temperature..... -15°C÷+100°C
 Maximum working pressure..... 3 bar
 Maximum suction height..... 700 mm
 rpm..... Maximum 3000 / Minimum 50

Mounting position:
Horizontal

Mounting in vertical position needs to be carried out in such a way that there is always oil left within the inner chamber of the pump for priming and self-lubrication functions.



Groups mounted in this position are self-priming.

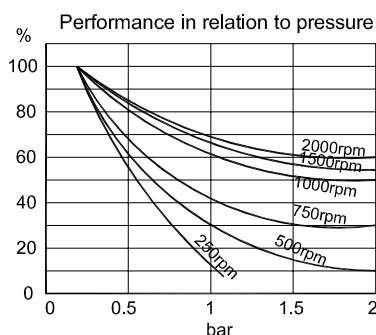
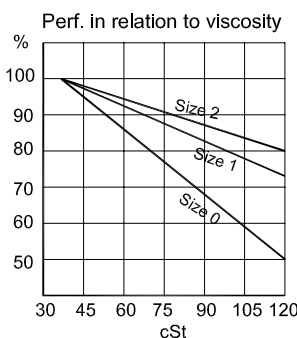
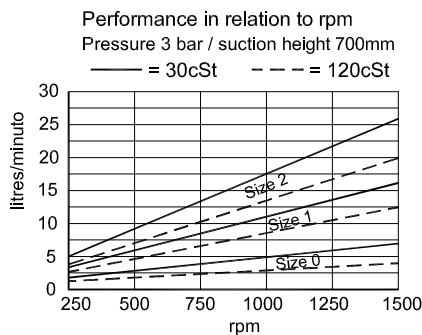
Groups mounted in this position are NOT self-priming. They need to be placed at a lower level in relation to the tank.

The pumps are self-priming up to 700 mm high with free outlet. Therefore it is necessary to design correctly the suction pipe.

Recommended minimum dimensions:

- Size 0 = Suction height Ø15x13
- Size 1 = Suction height Ø22x20
- Size 2 = Suction height Ø28x25

The same pipe Ø as in suction should be used on the pressure side.



2 5 X X X 0 0 0 0

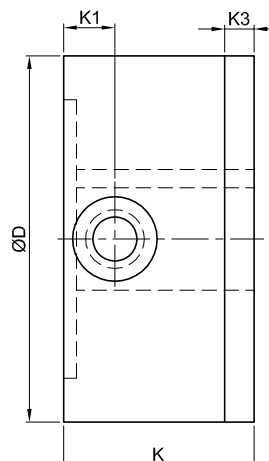
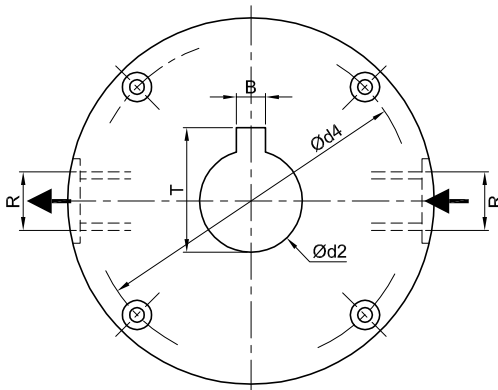
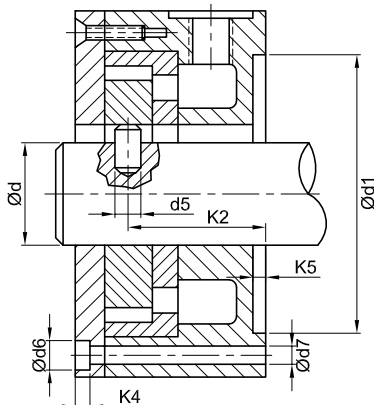
Model	Flow rate	Construction type	Size
④ E-0	7 l/min	See types below	① 15/85
			② 30/100
			③ 45/115
			④ 60/130
⑤ E-1	16 l/min		① 15/105
⑥ E-2	26 l/min		② 30/120
			③ 45/135
			④ 60/150

① Drilled body Drilled cover	② Drilled body Solid cover	③ Solid body Drilled cover	④ Drilled body Seal cover
⑤ Solid body Seal cover	⑥ Seal body Drilled cover	⑦ Seal body Solid cover	⑧ Seal body Seal cover

Reversible rotary pumps

Model E

Direct mounting on shaft

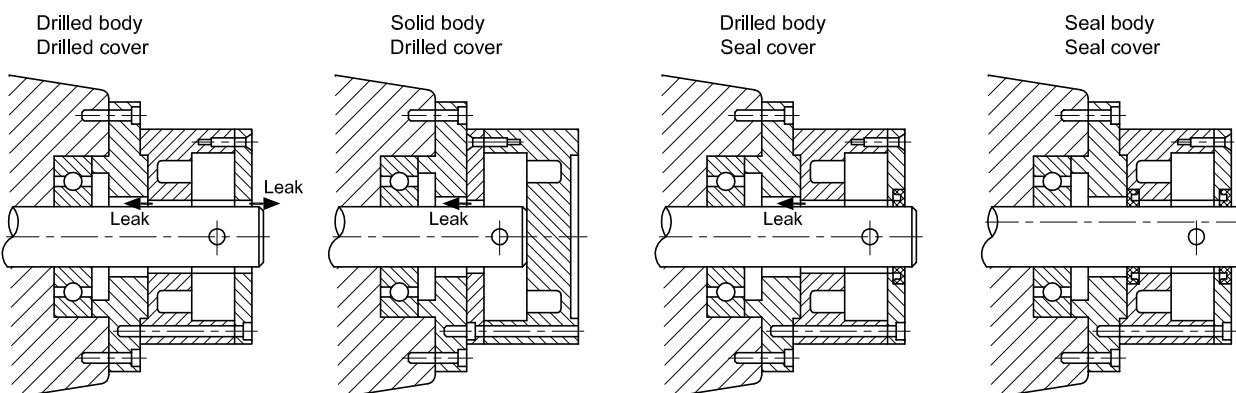


Dimensions

Model	Size	Ød	ØD	Ød1	Ød2	Ød4	Ød5	B	T	R	Ød6	Ød7	K	K1	K2	K3	K4	K5
E-0	15/85	15	85	60	15.2	73	5	5.2	18	3/8" BSP	9.5	5.5	52	14	37	8	4	3.5
	30/100	30	100	75	30.2	88	8	8.2	35									
	45/115	45	115	90	45.2	103	8	8.2	50									
	60/130	60	130	105	60.2	118	8	8.2	65									
E-1	15/105	15	105	75	15.2	93	5	5.2	18	1/2" BSP	9.5	5.5	59	18	44	8	4	3.5
	30/120	30	120	90	30.2	108	8	8.2	35									
	45/135	45	135	105	45.2	123	8	8.2	50									
	60/150	60	150	120	60.2	138	8	8.2	65									
E-2	15/105	15	105	75	15.2	93	8	8.2	18	3/4" BSP	9.5	5.5	70	20	52	8	4	3.5
	30/120	30	120	90	30.2	108	8	8.2	35									
	45/135	45	135	105	45.2	123	8	8.2	50									
	60/150	60	150	120	60.2	138	8	8.2	65									

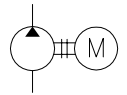
Mounting examples

Side oil leaks occur in these type of pumps therefore in external mountings where leaks cannot be collected the following pumps (with cover or solid bodies, cover or seal bodies...) should be chosen according to the type of mounting.





Vane pump motor unit for low pressure Model MBB



Applications

Reducers, gearboxes, low pressure circulation systems...

Technical data

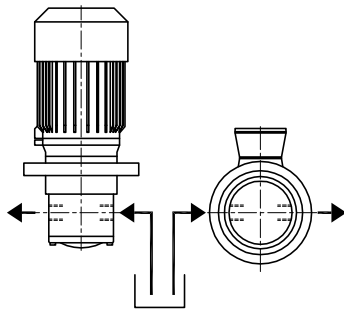
The pumps can operate within a wide range of viscosities. The motor power to operate the pump depends on viscosity and working pressure. When using viscous oils it is important to choose a low rpm drive rotation and increase the pump size.

They are reversible, they include a reverse system without valves and they continue providing flow rates when the drive shaft changes the rotation direction without varying the suction and outlet pipes.

Size	Flow rate	Motor 230/400V 50/60Hz 1500rpm	Inlet thread suction	Outlet thread pressure
MBB-00	3 litres/min	0.18kW	1/4 BSP	1/4 BSP
MBB-0	7 litres/min	0.37kW	3/8 BSP	3/8 BSP
MBB-1	16 litres/min	0.37kW	1/2 BSP	1/2 BSP
MBB-2	26 litres/min	0.75kW	3/4 BSP	3/4 BSP

The greater the viscosity the greater the power consumption

Mounting position:



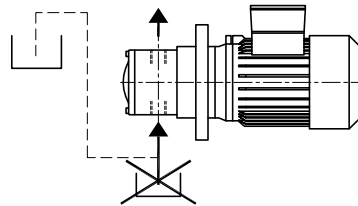
Groups mounted in this position are self-priming.

The pumps are self-priming up to 700 mm high with free outlet. Therefore it is necessary to design correctly the suction pipe.

Recommended minimum dimensions:

- Size 00 = Suction height Ø12x10
- Size 0 = Suction height Ø15x13
- Size 1 = Suction height Ø22x20
- Size 2 = Suction height Ø28x25

The same pipe Ø as in suction should be used on the pressure side.

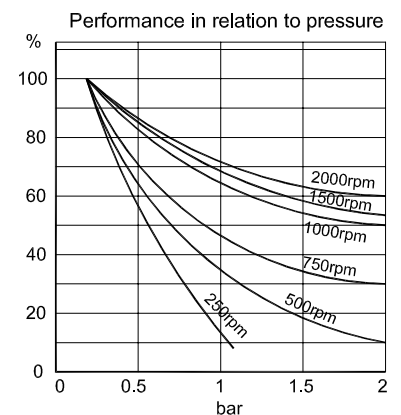
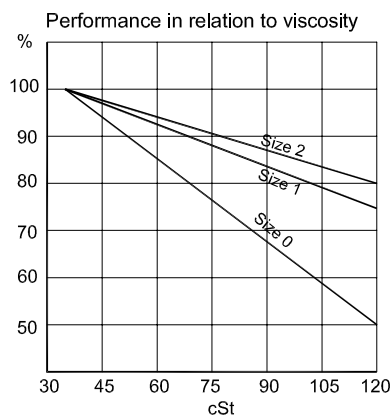
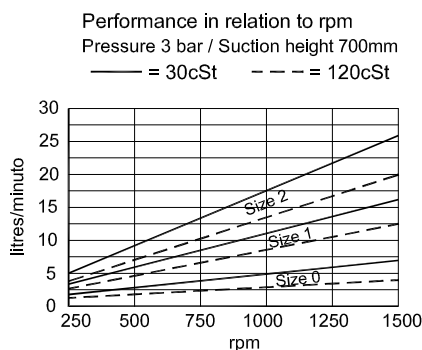


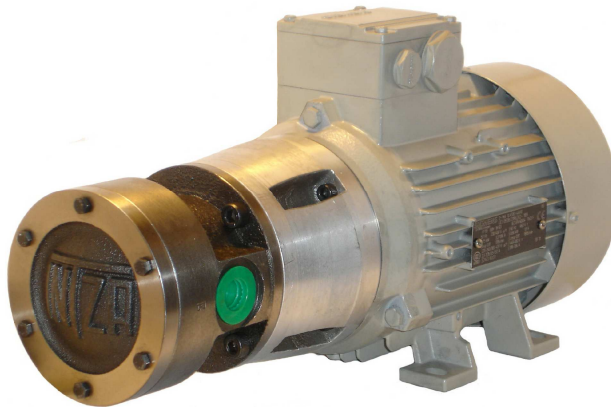
Groups mounted in this position are NOT self-priming. They need to be placed at a lower level in relation to the tank.

Lubricant..... Mineral and synthetic oils
Operating viscosity..... 40÷1000 cSt
Working temperature..... -15°C÷+100°C
Maximum working pressure..... 3 bar
Maximum suction height..... 700 mm
rpm..... Maximum 3000 / minimum 50

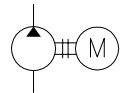
2 3 0 X X X X 3 5

Size	Pressure relief valve	Pump type	Electrical motor
0 MBB-00	0 Without	0 Reversible 1 Non reversible	1 Standard 5 Depending on Client
1 MBB-0	0 Without	0 Reversible	
2 MBB-1	5 With		
3 MBB-2			





Vane pump motor unit for low pressure



Model MPB

Applications

Reducers, gearboxes, low pressure circulation systems...

Technical data

The pumps can operate within a wide range of viscosities.

The motor power to operate the pump depends on viscosity and working pressure. When using viscous oils it is important to choose a low rpm drive rotation and increase the pump size.

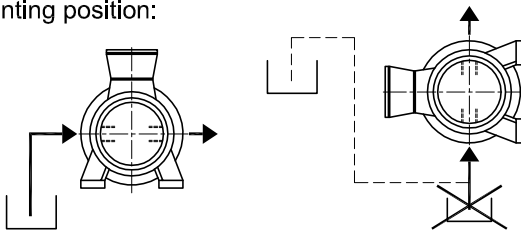
They are reversible, they include a reverse system without valves and they continue providing flow rates when the drive shaft changes the rotation direction without varying the suction and outlet pipes.

Lubricant..... Mineral and synthetic oils
Operating viscosity..... 40÷1000 cSt
Working temperature..... -15°C÷+100°C
Maximum working pressure..... 3 bar
Maximum suction height..... 700 mm
rpm..... Maximum 3000 / minimum 50

Size	Flow rate	Motor 230/400V 50/60Hz 1500rpm	Inlet thread suction	Outlet thread pressure
MPB-00	3 litres/min	0.18kW	1/4 BSP	1/4 BSP
MPB-0	7 litres/min	0.37kW	3/8 BSP	3/8 BSP
MPB-1	16 litres/min	0.37kW	1/2 BSP	1/2 BSP
MPB-2	26 litres/min	0.75kW	3/4 BSP	3/4 BSP
MPB-3	50 litres/min	1.5kW	3/4 BSP	3/4 BSP

The greater the viscosity the greater the power consumption

Mounting position:



Groups mounted in this position are self-priming.

Groups mounted in this position are NOT self-priming. They need to be placed at a lower level in relation to the tank.

Pumps are self-priming up to 700mm high with free outlet. Therefore it is necessary to design correctly the suction pipe.

Recommended minimum dimensions:

- Size 00 = Suction height Ø12x10
- Size 0 = Suction height Ø15x13
- Size 1 = Suction height Ø22x20
- Size 2 = Suction height Ø28x25
- Size 3 = Suction height Ø42x36

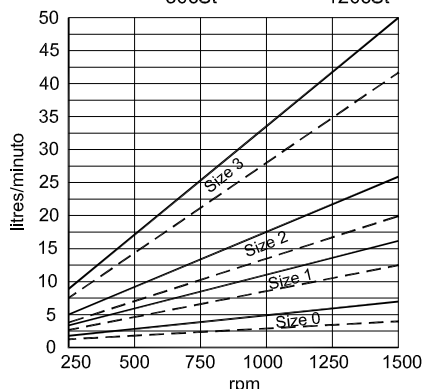
The same pipe Ø as in suction should be used on the pressure side.

2 3 1 X X X X 3 5

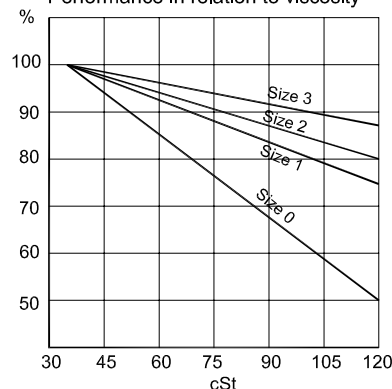
Size	Pressure relief valve	Pump type	Electrical motor
0 MPB-00	0 Without	0 Reversible 1 Non reversible	1 Standard 5 Depending on Client
1 MPB-0			
2 MPB-1	0 Without	0 Reversible	
3 MPB-2	5 With		
4 MPB-3			

Performance in relation to rpm

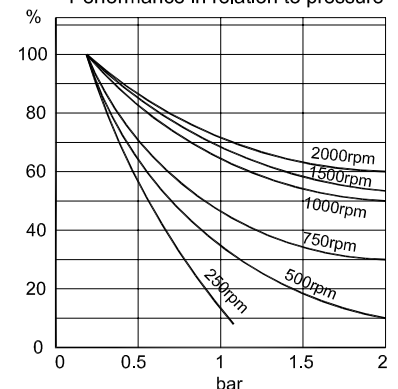
Pressure 3 bar / suction height 700mm
— = 30cSt - - - = 120cSt



Performance in relation to viscosity

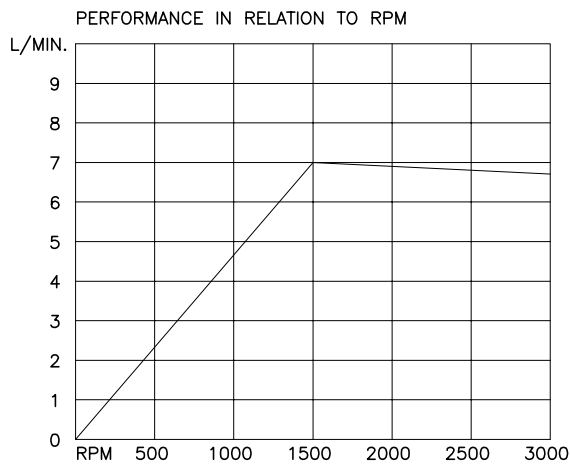
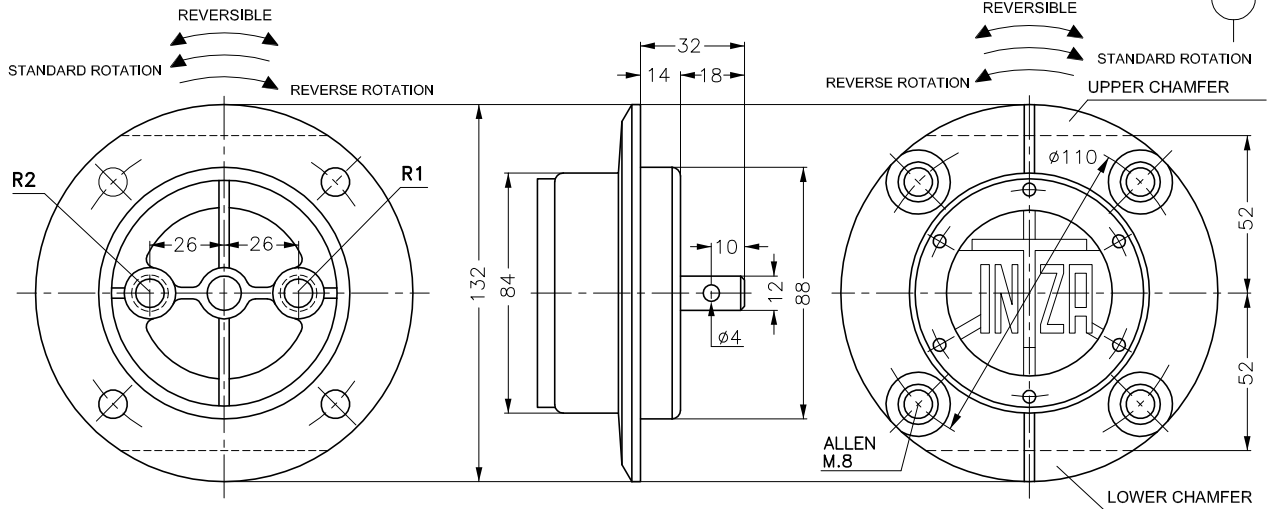


Performance in relation to pressure

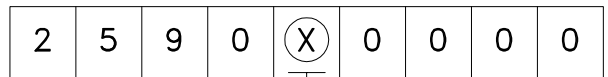


Special vane pump for low pressure

Model BE-0



		STD. ROTATION	REV. ROTATION
SUCTION	1/4"G	R1	R2
PRESSURE	1/4"G	R2	R1



SIZE

- ① ROUND FLANGE/NON REVERSIBLE/STD. ROTATION
- ① ROUND FLANGE/NON REVERSIBLE/REV. ROTATION
- ② UPPER CHAMFER/NON REVERS./STD. ROTATION
- ③ LOWER CHAMFER/NON REVERS./REV. ROTATION

