

Axial Piston Pumps PIMV



AXIAL PISTON PUMPS PMV

TECHNICAL SPECIFICATION

			Model	
	PMV	18	28	64
Displacement	cm ³ rev ⁻¹ [in ³ rev ⁻¹]	14-18 [0.85-1.09]	21-28 [1.28-1.71]	42-50-64 [2.56-3.05-3.90]
Charge pump displacement	cm ³ rev ⁻¹ [in ³ rev ⁻¹]	5.4 [0.32]	11 [0.671]	13 [0.79]
Maximum speed	min ⁻¹ [rpm]	3500	3500	3500
Minimum speed	min ⁻¹ [rpm]	750	750	750
Operating pressure Main pump:				
Maximum continuous	bar [psi]	250 [3,625]	250 [3,625]	250 [3,625]
Maximum peak	bar [psi]	350 [5,075]	350 [5,075]	350 [5,075]
Charge pump:				
• Nominal	bar [psi]	10 ÷ 20 [145 ÷ 290]	10 ÷ 20 [145 ÷ 290]	10 ÷ 20 [145 ÷ 290]
• Maximum	bar [psi]	35 [507]	35 [507]	35 [507]
Maximum case drain pressure	bar [psi]	2 [29]	2 [29]	2 [29]
On cold starting, for short periods	bar [psi]	6 [86]	6 [86]	6 [86]
Minimum suction pressure	bar [psi]	1 [14.5]	1 [14.5]	1 [14.5]
On cold starting, for short periods	bar [psi]	0,5 [7.25]	0,5 [7.25]	0,5 [7.25]
Operating temperature	°C [°F]	-25 ÷ +80 [-13 ÷ 176]	-25 ÷ +80 [-13 ÷ 176]	−25 ÷ +80 [−13 ÷ 176]
Fluids	Mineral oil basis an	nd anticorrosive, antioxidant	and wear preventing additio	n agents (HL or HM).
Viscosity:				
At operating temperature	cSt	15 ÷ 60	15 ÷ 60	15 ÷ 60
Extreme operating conditions, for short periods	cSt	10 ÷15	10 ÷15	10 ÷15
On cold starting, for short periods Filtration	to leakage; all the e		< 800 only the flow necessary to r rged through the boost pumpage.	
Cartridge filtration grade:				
Absolute	μm	22	22	22
Nominal	μm	10	10	10
Drive shaft loads	N	600	1.200	3.000
• Radial (Fq max)	[lbf]	[135]	[270]	[675]
• Axial (Fax max) X/2 X/2	N [lbf]	400 [90]	950 [213]	1.500 [337]
Displacement limiting			h limit the control piston stro	ke.
Installation	Possible in every p	osition or direction.		
Weight	kg [lb]	7 [15.4]	13 [28.65]	29 [63.9]



AXIAL PISTON PUMPS PM\

ORDERING CODE

PMV		- *						*	*
1	2	3	4	5	6	7	8	9	10

^{*} fields number 3, 9 and 10 are optional

Model

1 PMV Variable displacement medium duty axial piston pump for closed circuit

Size

2 ≈ Displacement in cm³

Displacement limiting

3

Without displacement limiting (no code)

~ Displacement in cm³

14	18	21	28	42	50	64
14	18	21	28	42	50	64
01÷13	15÷17	19÷20	22÷28	29÷41	43÷49	51÷63

	Contro	bl Size	14-18	21-28	42-50-64
	L	Manual without zeroing	•	1	1
	M	Manual with zeroing	•	/	1
	R	Manual lever with feedback	•	•	•
	N	Hydraulic proportional without feedback	•	•	•
	Р	Hydraulic proportional with feedback	/	•	•
4	l12	Electric impulse 12V	•	•	•
	124	Electric impulse 24V	•	•	•
	F12	Electric two positions 12V	•	•	•
	F24	Electric two positions 24V	•	•	•
	E12	Electric proportional with feedback 12V	/	•	•
	E24	Electric proportional with feedback 24V	1	•	•

			Size		14-18			21-28		4	2-50-64	
	Shaft		Pump	Sin.	1 st	2 nd	Sin.	1 st	2 nd	Single	1st	2 nd
	Α	Splined 9T-16/32-DP		•	•	•	/	/	/	/	/	1
	В	Splined 9T-16/32-DP BOSCH		•	/	•	/	/	/	/	/	1
	С	Internal Splined 9T-16/32-DP TANDEM BOSCH		1	/	•	/	/	/	/	/	1
	D	Internal Splined 9T-16/32-DP TANDEM		/	/	•	/	/	/	/	/	1
5	E	Splined 9T-16/32-DP for SAE-A through drive		•	•	•	/	/	/	/	/	1
	F	Splined 13T-16/32-DP		/	/	/	•	•	•	/	/	1
	G	Internal Splined 13T-16/32-DP TANDEM		/	/	/	•	•	/	/	/	•
	Н	Splined 15T-16/32-DP		/	/	/	•	•	/	•	•	•
	- 1	Splined 15T-16/32-DP TANDEM		1	/	/	•	•	/	•	•	/

Direction of rotation

6	R	Clockwise (CW)
0	L	Counterclockwise (CCW)



AXIAL PISTON PUMPS PM\

ORDERING CODE

PMV		- *						*	*
1	2	3	4	5	6	7	8	9	10

^{*} fields number 3, 9 and 10 are optional

Pressure relief valve

	14	140 bar [2,030 psi]
	16	160 bar [2,320 psi]
	17	170 bar [2,465 psi]
7	21	210 bar [3,045 psi]
	25	250 bar [3,625 psi]
	30	300 bar [4,350 psi]
	35	350 bar [5,075 psi]

			Size			14-18	}			21	-28			42-50-64	
	Throu	gh drive	Shaft	Α	В	С	D	Е	F	G	Н	I	G	Н	I
	Х	Without through drive		•	/	/	•	/	•	•	•	/	•	/	•
	G1	Bosch GP1		1	•	•	/	/	/	/	/	/	/	/	/
	G2	Bosch GP2		1	•	•	/	/	/	/	/	/	/	1	1
	Α	SAE A = 9T-16/32-DP		/	/	/	/	•	•	•	•	/	•	•	/
8	В	SAE B = 13T-16/32-DP		1	/	/	/	/	/	/	/	•	1	/	•
0	С	SAE B-B = 15T-16/32-DP		/	/	/	/	/	/	/	/	/	1	/	•
	D	Double pump, short version		•	/	/	/	/	/	/	/	•	/	/	•
	DA	Double pump, SAE A = 9T-16/32-DP		/	/	/	/	•	•	/	•	/	•	•	/
	DB	Double pump, SAE B = 13T-16/32-DP		1	/	/	/	/	/	/	/	•	1	1	•
	DC	Double pump, SAE B-B = 15T-16/32-DP		1	/	/	/	/	/	/	1	/	/	1	•

Port threads

Metric (BSPP) (no code) SAE (UNF) - for minimum quantity orders of 100 pcs.

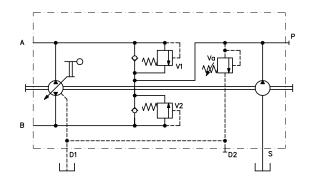
			Size			14	-18					21-	-28				4	42-50	0-64		
	Option	าร*	Control	L	М	R	Ν	I	F	R	N	Р	I	F	Ε	R	Ν	Р	I	F	Е
		Without options (no code)		•	•	•	•	•	•	/	/	/	/	/	/	•	•	•	•	•	•
	F	Pressure filter		•	•	•	•	•	•	/	/	/	/	/	/	•	•	•	•	•	•
	В	By-pass		/	/	/	/	/	/	•	•	•	•	•	•	•	•	•	•	•	•
10	Z	Additional control pressure gauge ports		/	/	/	/	/	/	/	/	/	/	/	/	•	•	•	•	•	•
10	C12	Electric cut-off valve 12 V **		/	/	•	•	/	/	•	•	•	•	•	•	•	•	/	/	/	1
	C24	Electric cut-off valve 24 V **		/	/	•	•	/	/	•	•	•	•	•	•	•	•	/	/	/	1
	L27	Power limiter, destroke at 270 bar [3.915 psi] **		/	/	/	/	/	/	•	•	•	•	•	•	•	•	•	•	•	•
	L32	Power limiter, destroke at 320 bar [4.640 psi] **		/	/	/	/	/	/	•	•	•	•	•	•	•	•	•	•	•	•

^{*} more options can be selected, e.g.: FBL27 for pressure filter, by-pass, power limiter; ** it is not possible to assemble the cut-off valve with power limiter and in the tandem pump short version.





L Manual without zeroing



Size 14-18

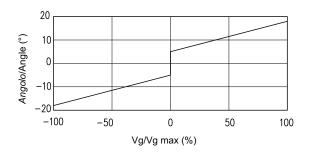
 Pump flow direction

 Shaft rotation
 CCW
 CW

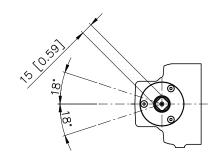
 Control rotation
 1
 2
 1
 2

 Oil outlet
 B
 A
 A
 B

Displacement variation: directly proportional to the angle of rotation of the control pivot which is built-in the swashplate (i.e. by means of a lever – not supplied).



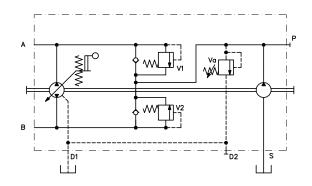
Operating pressure	bar	40	200
	[psi]	[580]	[2,900]
Required torque on the control pivot	Nm	2 ÷ 5	8 ÷ 11
	[lbf ft]	[1.47 ÷ 3.68]	[5.89 ÷ 8.1







M Manual with zeroing

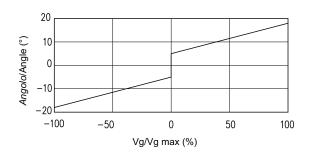


Size 14-18

Pump flow direction

Shaft rotation	CC	cw	С	W
Control rotation	1	2	1	2
Oil outlet	В	Α	Α	В

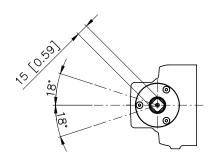
Displacement variation: directly proportional to the angle of rotation of the control pivot which is built-in the swashplate (i.e. by means of a lever – not supplied); an internal spring guarantees return to zero displacement.



Operating pressure

Required torque on the control pivot

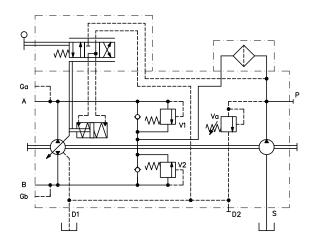
bar 40 200 [psi] [580] [2,900] Nm 6 ÷ 15 12 ÷ 25 [lbf ft] [4.42 ÷ 11.05] [8.84 ÷ 18.42]







R Manual lever with feedback

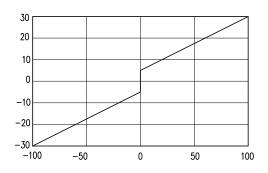


Displacement variation: ddirectly proportional to the angle of rotation of the lever; the feedback guarantees compensation against operating pressure variations.

Size 14-18 21-28 42-50-64

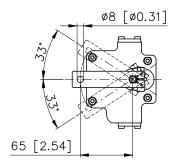
Pump flow direction

Shaft rotation	ccw		С	W
Control rotation	1	2	1	2
Oil outlet	Α	В	В	Α



Torque on the control lever

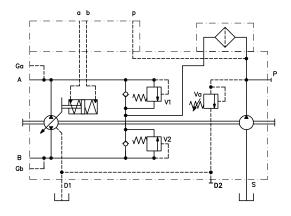
Required	Nm	0,6 ÷ 1,2 [0.44 ÷ 0.88]
Maximum	[lbf ft]	3 [2.21]



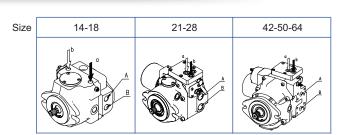




N Hydraulic proportional without feedback

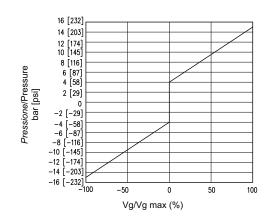


Displacement variation: proportional to the pilot pressure on "a" or "b" ports controlled by a joystick or a pressure reducing valve (not supplied) whose feeding pressure can be provided by charging pressure from P port.



Pump flow direction

Shaft rotation	ccw		С	W
Control rotation	а	b	а	b
Oil outlet	А	В	В	Α



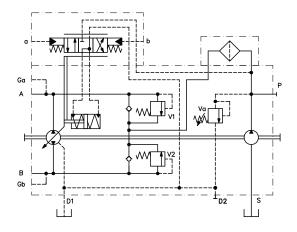
Pressure (at ports "a" and "b")

• Pilot	bar	4 ÷ 15 [28 ÷ 217]
Maximum	[psi]	30 [435]

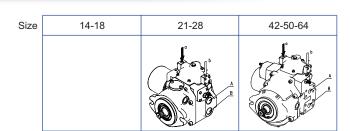




P Hydraulic proportional without feedback

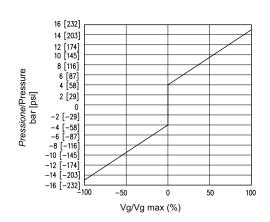


Displacement variation: proportional to the pilot pressure on "a" or "b" ports controlled by a joystick or a pressure reducing valve (not supplied) whose feeding pressure can be provided by charging pressure from P port; the feedback guarantees compensation against operating pressure variations.



Pump flow direction

Shaft rotation	ccw		С	W
Control rotation	а	b	а	b
Oil outlet	В	Α	Α	В



Pressure (at ports "a" and "b")

• Pilot	bar	4 ÷ 15 [28 ÷ 217]
• Maximum	[psi]	30 [435]

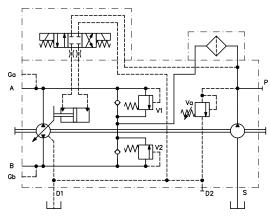




I12 I24

Electric impulse 12V

Electric impulse 24V



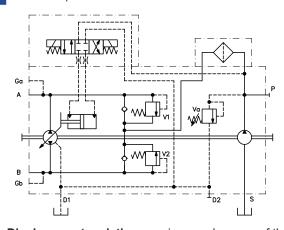
Displacement variation: in function of the number of inputs of current to one of the two proportional solenoids.

Size 14-18 21-28 42-50-64

Pump flow direction

Shaft rotation	CCW		С	W
Control rotation	1	2	1	2
Oil outlet	В	Α	Α	В

F12 Electric two positions 12V
F24 Electric two positions 24V



Displacement variation: maximum, when one of the two ON-OFF solenoids is switched on.

Size 14-18 21-28 42-50-64

Pump flow direction

Shaft rotation	ccw		С	W
Control rotation	1	2	1	2
Oil outlet	В	Α	Α	В

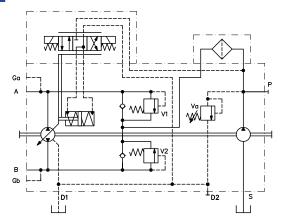




E12 E24

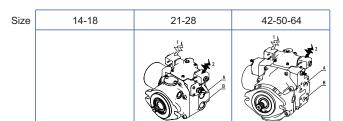
Electronic proportional with feedback 12V

Electronic proportional with feedback 24V



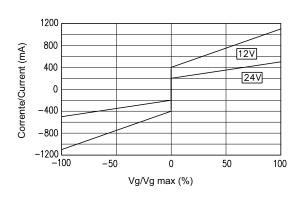
Displacement variation: directly proportional to the input current to one of the two proportional solenoids; the feedback guarantees compensation against operating pressure variations.

Control rotation	V	24	12
Oil outlet	mA	200 ÷ 550	400 ÷ 1.100



Pump flow direction

Shaft rotation	ccw		cw	
Control rotation	1	2	1	2
Oil outlet	В	Α	Α	В





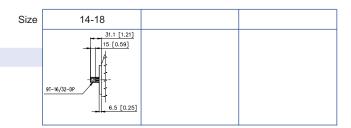
AXIAL PISTON PUMPS PM\

SHAFT ENDS

A Splined 9T-16/32-DP

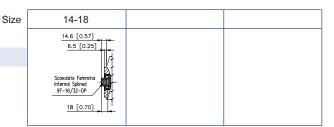
B Splined 9T-16/32-DP BOSCH

E Splined 9T-16/32-DP for SAE-A through drive

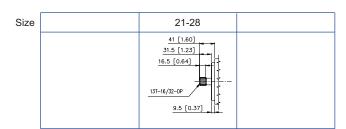


Internal Splined 9T-16/32-DP TANDEM BOSCH

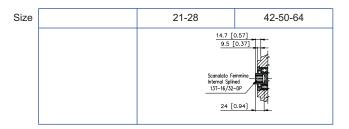
D Internal Splined 9T-16/32-DP TANDEM



F Splined 13T-16/32-DP

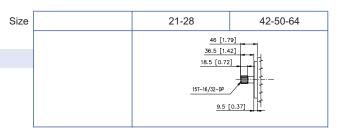


G Internal Splined 13T-16/32-DP TANDEM



H Splined 15T-16/32-DP

Splined 15T-16/32-DP TANDEM



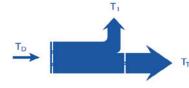




THROUGH DRIVES

MAXIMUM TORQUES

Single pump



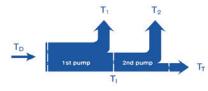
Size Drive shaft

Maximum torque at the drive shaft	T _D
Maximum torque at the through shaft	T _T

Nm [lbf ft]

	14-18		21-28		42-50-64
Α	В	E	F	Н	Н
80	80	80	250	360	360
[59]	[59]	[59]	[184]	[265]	[265]
80	45	80	80	80	80
[59]	[33]	[59]	[59]	[59]	[59]

Double pump



Size Drive shaft

Maximum torque at the drive shaft	T _D
Maximum intermediate torque	T _I
Maximum torque at the through shaft	T _T

Nm [lbf ft] Nm [lbf ft] Nm [lbf ft]

14-18			21-28			42-50-64			
Α	В	С	D	Е	I	G	Н	I	G
80 [59]	-	-	-	80 [59]	360 [265]	-	-	360 [265]	-
80 [59]	80 [59]	80 [59]	80 [59]	80 [59]	250 [184]	250 [184]	80 [59]	250 [184]	250 [184]
-	45 [33]	45 [33]	45 [33]	-	-	80 [59]	-	-	80 [59]

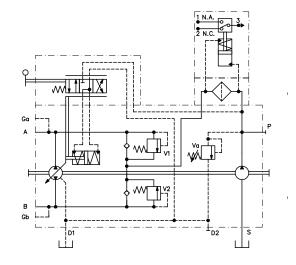




OPTIONS

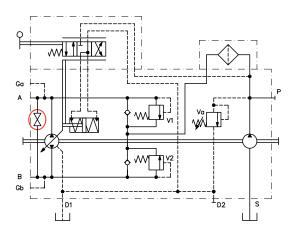
F Pressure filter

The filter, positioned on the delivery outlet of the booster pump, enables only the flow necessary to reintegrate the lost oil due to drainage to pass, guaranteeing an optimum stability of the fluid contamination conditions. All the excess flow, which is drained by the booster pump valve, is therefore not filtered; in this way it is guaranteed a longer life of the filter cartridge.



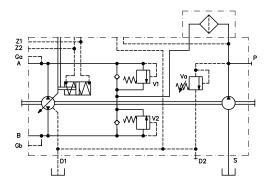
B By-pass

The By-pass valve is a tap inside the pump that allows, if necessary, to connect the pressure port line A and B.



Z Additional control pressure gauge ports

The additional Z1 and Z2 control pressure ports allow to control the pressure on the servocontrol, independently from the control of the pump.





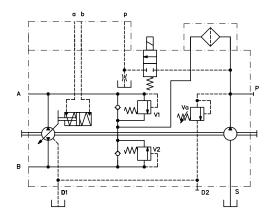


OPTIONS

C12 Electric cut-off valve 12V

C24 Electric cut-off valve 24V

The electric cut-off valve brings to zero the displacement of the pump when power supply to the ON/OFF solenoid is cut-off. Feed voltage is 12 V DC or 24 V DC. It is not possible to assemble the cut-off valve with power limiter and in the tandem pump short version.



L27 Power limiter, destroke at 270 bar [3.915 psi]

L32 Power limiter, destroke at 320 bar [4.640 psi]

When set power is reached, the power limiter ensures that the pump destrokes as the pressure increases. It has been designed to work only on pressure port line A of the pump. The power setting is not externally adjustable and must be stated in the purchase order.





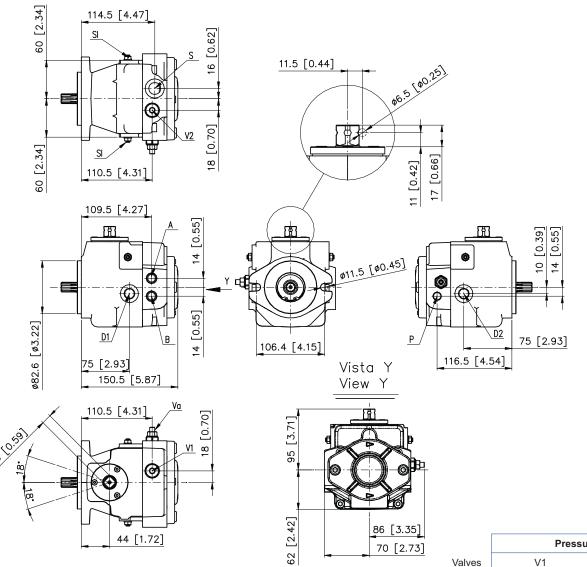
Size

14 18

SAE A mounting flange

Control

L Manual without zeroing



ressu	re relief
	V2

Displacement limiter

Port threads

Metric (BSPP)

U SAE (UNF)

Ports

Pressure		Dra	Drain Suction		n Charge pressure	
Α	В	D1	D2	S	Р	
3/8 G		3/8 G		1/2 G	1/4 G	
9/16 - 18 UNF - 2B		9/16 - 18	UNF - 2B	3/4 - 16 UNF - 2B	7/16 - 20 UNF - 2B	





Size

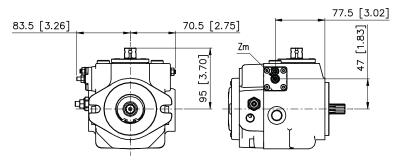
14 18

SAE A mounting flange

Control

М

Manual without zeroing

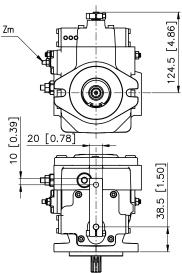


Control

R

Manual lever with feedback

Zero adjustment screw



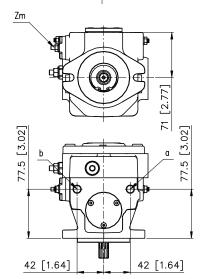
Control

N

Hydraulic proportional without feedback

Zero adjustment screw						
Zm						





Size

14 18

SAE A mounting flange

Control

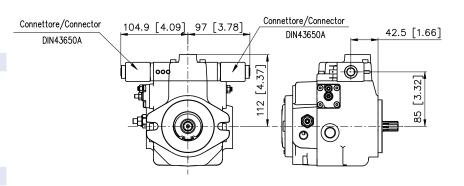
I12 Electric impulse 12V

I24 Electric impulse 24V

Control

F12 Electric two positions 12V

F24 Electric two positions 24V



Size

14 18

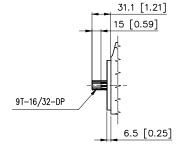
SAE A mounting flange

Shaft

A Splined 9T-16/32-DP

B Splined 9T-16/32-DP BOSCH

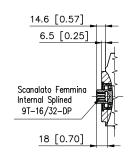
E Splined 9T-16/32-DP for SAE-A through drive



Shaft

C Internal Splined 9T-16/32-DP TANDEM BOSCH

Internal Splined 9T-16/32-DP TANDEM







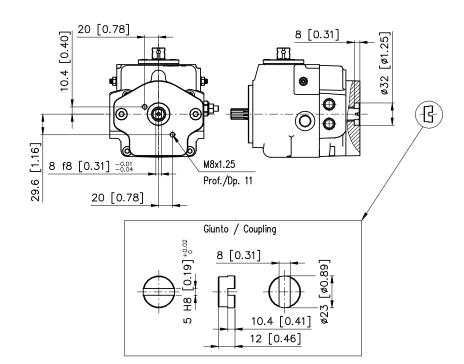
Size

14 18

SAE A mounting flange

Through drive

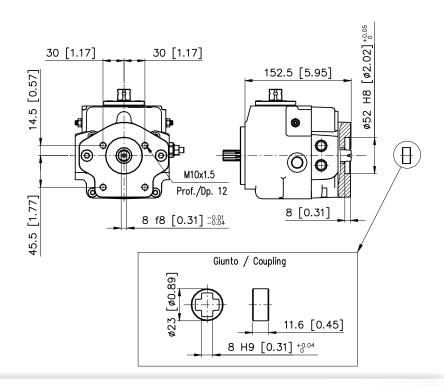
G1 Bosch GP1



Through drive

G2

Bosch GP2







Size

14 18

SAE A mounting flange

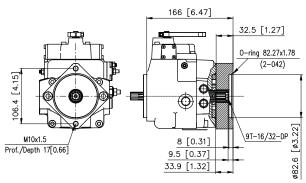
Through drive

SAE A = 9T-16/32-DP

Size

14 18

SAE A mounting flange



Size



SAE A mounting flange

Through drive

Double pump, short version

Shaft

Splined 9T-16/32-DP

Through drive

X	Without through	drive
	vviiiioat tinoagii	all v c

Bosch GP1 G1

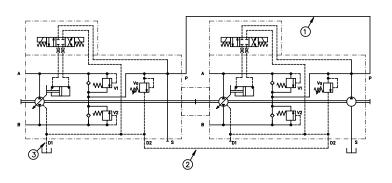
Bosch GP2 G2

Shaft

С

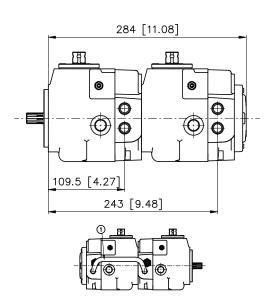
Internal Splined 9T-16/32-DP TANDEM BOSCH

D Internal Splined 9T-16/32-DP TANDEM



The hose (1) used to connect the charge pressure ports (P) is supplied with the units. The hoses (2) and (3) connecting the drain ports must be realized and mounted by the customer.

With this configuration, only the second pump has the charge pump.







Size

14 18

SAE A mounting flange

Size 14 18 SAE A mounting flange

Through drive

DΔ

Double pump, SAE A = 9T-16/32-DP

Shaft

Е

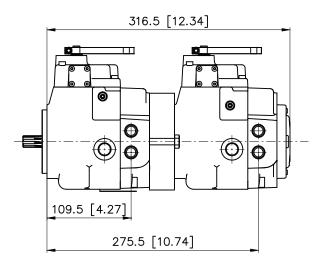
Splined 9T-16/32-DP for SAE-A through drive

Through drive

X	Without through drive
G1	Bosch GP1
G2	Bosch GP2
Α	SAE A = 9T-16/32-DP

Shaft

• • • • • • • • • • • • • • • • • • • •	
Α	Splined 9T-16/32-DP
В	Splined 9T-16/32-DP BOSCH
Е	Splined 9T-16/32-DP for SAE-A through drive



With this configuration, both pumps have the charge pump.





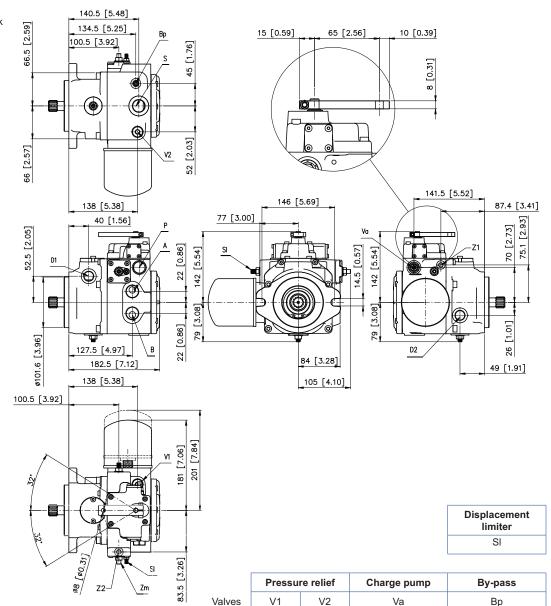
Size

21 28

SAE B mounting flange

Control

Manual lever with feedback



Port threads

Metric (BSPP) SAE (UNF)

Ports

Pressure		sure Drain		Suction	Charge pressure	
Α	В	D1	D2	S	Р	
3/8 G		3/8 G		1/2 G	1/4 G	
9/16 - 18 UNF - 2B		9/16 - 18	UNF - 2B	3/4 - 16 UNF - 2B	7/16 - 20 UNF - 2B	



Size

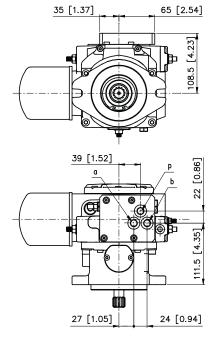
21 28

SAE B mounting flange

Control

N Hydraulic proportional without feedback

			Control	pressure	Charge pressure
Port threads		Ports	а	b	р
	Metric (BSPP)		1/4 G		1/4 G
U	SAE (UNF)		7/16 - 20 UNF - 2B		7/16 - 20 UNF - 2B

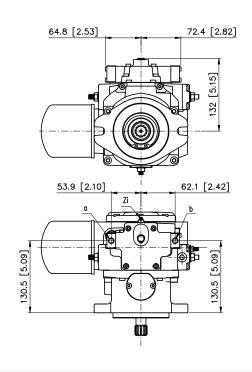


Control

Hydraulic proportional with feedback

Hydraulic zero adjustment screw
Zi

		Control pressure			
Port t	hreads	а	b		
	Metric (BSPP)		1/4 G		
U	SAE (UNF)		7/16 - 20 UNF - 2B		







Size

21 28

SAE B mounting flange

Control

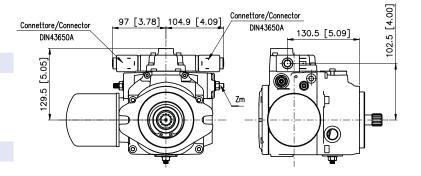
112 Electric impulse 12V

124 Electric impulse 24V

Control

F12 Electric two positions 12V

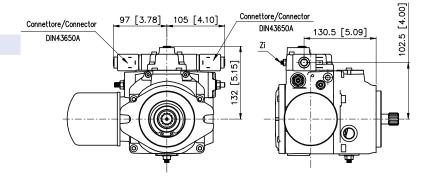
Electric two positions 24V



Control

E12 Electric proportional with feedback 12V

E24 Electric proportional with feedback 24V



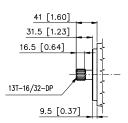
Size

21 28

SAE B mounting flange

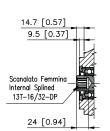
Shaft

Splined 13T-16/32-DP



Shaft

Internal Splined 13T-16/32-DP TANDEM







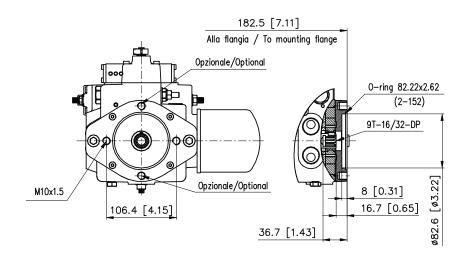
Size

21 28

SAE B mounting flange

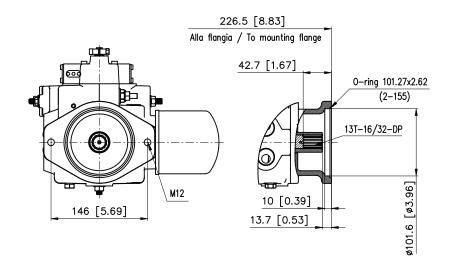
Through drive

SAE A = 9T-16/32-DP



Through drive

SAE B = 13T-16/32-DP





AXIAL PISTON PUMPS PM\

DRAWINGS



21 28

SAE B mounting flange

Size

21 28

SAE A mounting flange

Through drive

Double pump, short version

Through drive

Without through drive

Α

SAE A = 9T-16/32-DP

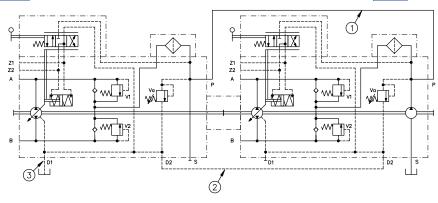
Shaft

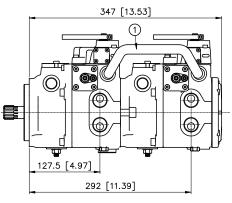
Splined 15T-16/32-DP TANDEM

Shaft

G

Internal Splined 13T-16/32-DP TANDEM





The hose (1) used to connect the charge pressure ports (P) is supplied with the units. The hoses (2) and (3) connecting the drain ports must be realized and mounted by the customer. With this configuration, only the second pump has the charge pump.

Size

21 28

SAE B mounting flange

Size

SAE A mounting flange

Through drive

DB

Double pump, SAE B = 13T-16/32-DP

Through drive

Α

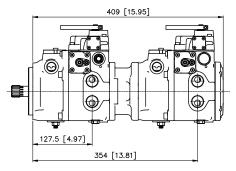
Without through drive SAE A = 9T-16/32-DP

Shaft

Splined 15T-16/32-DP TANDEM

Shaft

Splined 13T-16/32-DP



With this configuration, both pumps have the charge pump.



AXIAL PISTON PUMPS PM\

DRAWINGS

Size

21 28

SAE B mounting flange

Size

SAE A mounting flange

Through drive

DA Double pump, SAE A = 9T-16/32-DP

Through drive

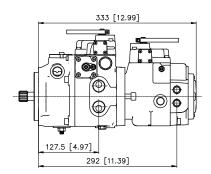
X	Without through drive
G1	Bosch GP1
G2	Bosch GP2

Shaft

Α	Splined 9T-16/32-DP
В	Splined 9T-16/32-DP BOSCH

Shaft

Splined 13T-16/32-DP



With this configuration, both pumps have the charge pump.





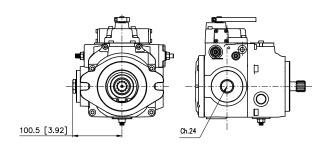
Size

21 28

SAE B mounting flange

Options

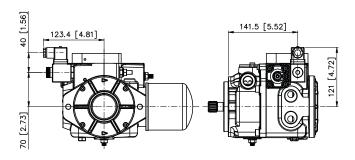
Electric cut-off valve



Options

C12

Electric cut-off valve







Size

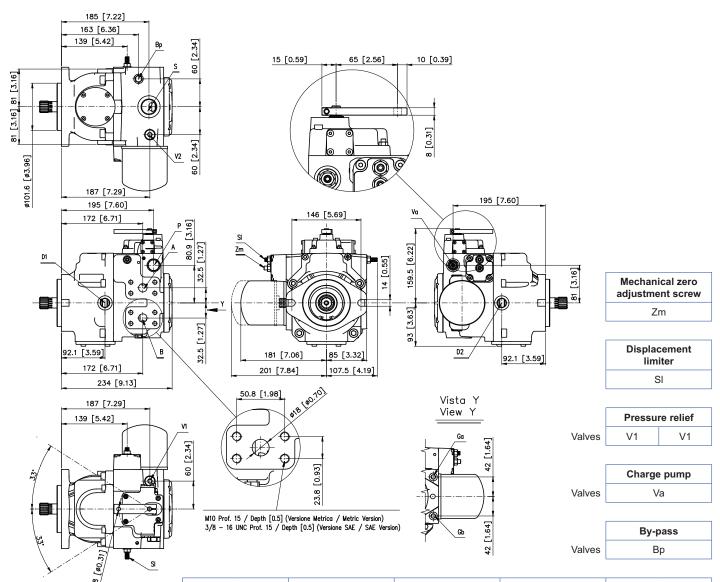
42 SAE B mounting flange

50 SAE B mounting flange

64 SAE B mounting flange

Control

Manual lever with feedback



80/		Pres	Pressure Drain		Suction	Charge pressure	Pressure gauge				
	Port th	nreads	Ports	Α	В	D1	D2	S	Р	Ga	Gb
Metric (BSPP)			3/4 SA	E 6000	1/2	2 G	1" G	3/4 - 16 UNF - 2B	1/8	3 G	
	U	SAE (UNF)		3/4 SA	E 6000	3/4 - 16	UNF - 2B	1 5/16 - 12 UNF - 2B	3/4 - 16 UNF - 2B	5/16 - 24	UNF - 2B





Size

42 SAE B mounting flange

50 SAE B mounting flange

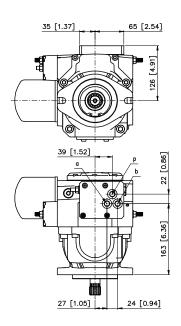
SAE B mounting flange

Control

64

Hydraulic proportional without feedback

			Control	pressure	Charge pressure		
Port threads		Ports	а	b	р	D2	
	Metric (BSPP)		1/4	1/4 G		1/4 G	
U	SAE (UNF)		7/16 - 20 UNF - 2B		7/16 - 20 UNF - 2B		

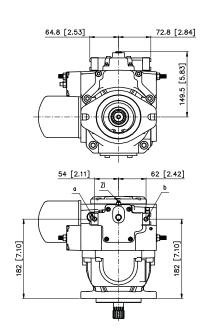


Control

Hydraulic proportional with feedback

Hydraulic zero adjustment screw
Zi

			Control pressure		
Port th	nreads	Ports	a b		
	Metric (BSPP)		1/8 G		
U	SAE (UNF)		5/16 - 24 UNF - 2B		







Size

42 SAE B mounting flange

50 SAE B mounting flange

SAE B mounting flange

Control

64

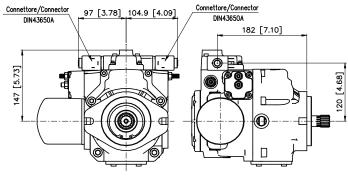
I12 Electric impulse 12V

I24 Electric impulse 24V

Control

F12 Electric two positions 12V

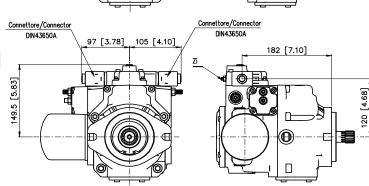
F24 Electric two positions 24V



Control

E12 Electric proportional with feedback 12V

E24 Electric proportional with feedback 24V



Size

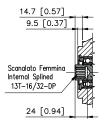
42 SAE B mounting flange

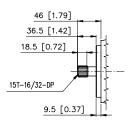
50 SAE B mounting flange

64 SAE B mounting flange

Shaft

G Internal Splined 13T-16/32-DP TANDEM





Shaft

H Splined 15T-16/32-DP





Size

50

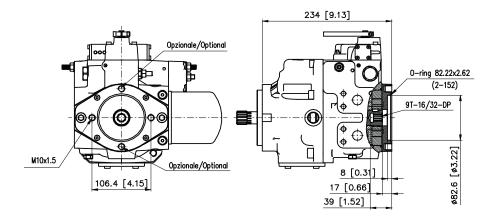
42 SAE B mounting flange

SAE B mounting flange

64 SAE B mounting flange

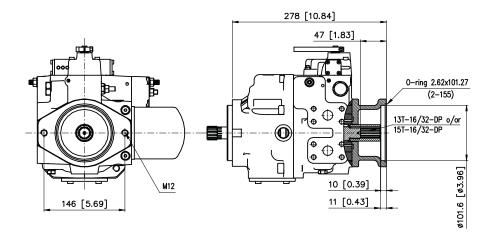
Through drive

SAE A = 9T-16/32-DP



Through drive

SAE B = 13T-16/32-DP







Size

42 SAE B mounting flange

50 SAE B mounting flange

64 SAE B mounting flange

Through drive

Double pump, short version

Shaft

Splined 15T-16/32-DP TANDEM

Size

42 SAE B mounting flange

50 SAE B mounting flange

64 SAE B mounting flange

Through drive

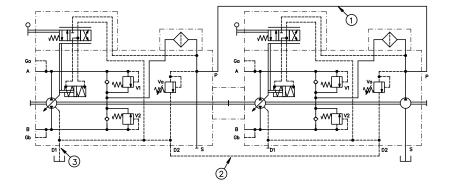
Without through drive

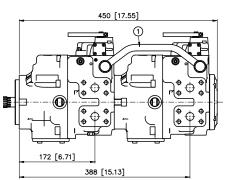
SAE A = 9T-16/32-DP

Shaft

Α

G Internal Splined 13T-16/32-DP TANDEM





The hose (1) used to connect the charge pressure ports (P) is supplied with the units. The hoses (2) and (3) connecting the drain ports must be realized and mounted by the customer.

With this configuration, only the second pump has the charge pump.



AXIAL PISTON PUMPS PM\

DRAWINGS

Size

64

42 SAE B mounting flange

50 SAE B mounting flange

SAE B mounting flange

Size

42 SAE B mounting flange

50 SAE B mounting flange

64 SAE B mounting flange

Through drive

DC Double pump, SAE B-B = 15T-16/32-DP

Through drive

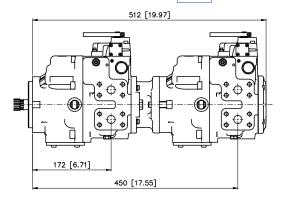
SAE A = 9T-16/32-DP

Shaft

Splined 15T-16/32-DP TANDEM

Shaft

Splined 15T-16/32-DP



With this configuration, both pumps have the charge pump.

Size

64

42 SAE B mounting flange

50 SAE B mounting flange

SAE B mounting flange

Size

21 SAE B mounting flange

SAE B mounting flange

Through drive

DB Double pump, SAE B = 13T-16/32-DP

Through drive

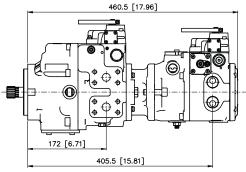
X Without through drive SAE A = 9T-16/32-DP Α

Shaft

Splined 13T-16/32-DP TANDEM

Shaft

Splined 13T-16/32-DP



With this configuration, both pumps have the charge pump.





AXIAL PISTON PUMPS PM\

DRAWINGS

Size

64

42 SAE B mounting flange

SAE B mounting flange 50

SAE B mounting flange

Size

14 SAE A mounting flange

SAE A mounting flange 18

Through drive

DA Double pump, SAE A = 15T-16/32-DP

Through drive

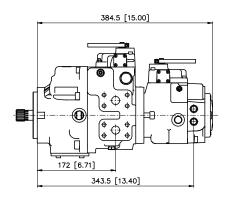
Х	Without through drive
G1	Bosch GP1
G2	Bosch GP2

Shaft

Splined 15T-16/32-DP

Shaft

Splined 9T-16/32-DP Α Splined 9T-16/32-DP BOSCH



With this configuration, both pumps have the charge pump.





Size

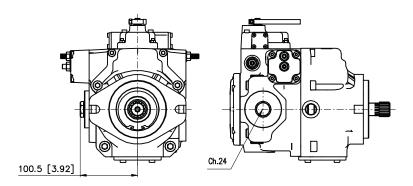
42 SAE B mounting flange

50 SAE B mounting flange

64 SAE B mounting flange

Options

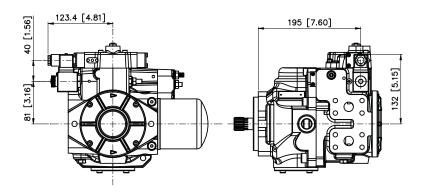
Without filter



Options

C12 C24

Electric cut-off valve



Options

Additional control pressure gauge ports

			Pressure gauge		
Port threads		Ports	Z1	Z2	
	Metric (BSPP)		1/8 G		
U	SAE (UNF)		1/8 G		

