

# Eaton™ 420 Series - Mobile Open Circuit Piston Pumps



## Part Number Formulation

Model Code	ADU	41	R	02	AA	1	0	A	28	00	00	00	1	00	1	00	CD	0	A
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)

### (1) Pump Series

ADU= 420 Series Variable Displacement Piston Pumps

### (2) Displacement, Pressure and Flow Ratings at 93°C, SAE 10W oil, 1 bar absolute (0 psig) inlet

Model Code	Displacement cm <sup>3</sup> /r	Rated Pressure			Rated Speed
		Contin	Intermit*	Peak**	
41	41.0	280 (4000)	320 (4600)	350 (5000)	2750 r/min
49	49.2	230 (3300)	250 (3600)	280 (4000)	2650 r/min
62	62.3	280 (4000)	320 (4600)	350 (5000)	2600 r/min

### (3) Rotation (viewed from shaft end)

R = Clockwise (Righthand)  
L = Counter-clockwise (Lefthand)

### (4) Mounting Flange and Input Shaft Options

Code	Mounting Flange	Shaft
02 =	SAE B, 2-Bolt	SAE "BB" 1" (25.4mm) Keyed
05 =	SAE B, 2-Bolt	SAE "B" 7/8" 13T Spline
08 =	SAE B, 2-Bolt	SAE "BB" 1" 15T Spline

### (5) Main Port Location and Size

Code	Location	Inlet	Outlet
AA =	Rear Ported	2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 61 (3/8"UNC Bolts)
AB =	Side Ported	2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 61 (3/8"UNC Bolts)

### (6) Drain Port Size and Location

1 = 7/8" -14UNF-2B SAE O-ring port (Top)  
2 = 7/8" -14UNF-2B SAE O-ring port (Bottom)

### (7) Diagnostic Port

0 = No Diagnostic Port

### (8) Control Options

A = Load Sensing & Pressure Compensator Control  
C = Pressure Compensator Control

Please contact Goldquest for additional options

### (9) Pressure Compensator Setting Options

28 = 207 - 214 Bar  
43 = 276 - 283 Bar

# Piston Pumps

## (10) Load Sensing Differential Setting

**00** = None  
**14** = 13 - 15 Bar setting  
**24** = 23 - 25 bar setting

## (11) Secondary Pressure Setting

**00** = No Secondary Pressure Setting

## (12) Control Special Features

**00** = None  
**0A** = Load Sense Bleed Down Orifice

## (13) Maximum Displacement Option

**1** = Standard displacement stop  
**2** = External Manual Stroke Adjust

## (14) Thru-Drive Mounting Pad and Output Shaft

**00** = Non Thru-drive  
**AA** = SAE A 2-Bolt with 9T Spline Shaft (No Coupling Required)  
**AC** = SAE B 2-Bolt with 13T Spline Shaft (Spline Coupling Excluded)

## (15) Shaft Seal

**1** = Polyacrylate (standard)  
Contact Goldquest for other shaft seal options

## (16) Pump Special Features

**00** = None

## (17) Paint

**CD** = Blue Primer

## (18) Customer Identification

**0** = Standard (Contact Eaton for Options)

## (19) Design Code

**A** = First Design

# Vickers™ M Series - Mobile Open Circuit Piston Pumps



## Part Number Formulation

Model Code	PVM	018	M	R	01	A	E	01	00	0	00	0	00	0	A
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)

### (1) Pump Series

**PVM** = M Series Variable Displacement Piston Pumps

### (2) Displacement, Pressure and Flow Ratings at 93°C, SAE 10W oil, 1 bar absolute (0 psig) inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Pressure			Rated Speed	
		Contin	Intermit*	Peak**	Mobile	Industrial
018	18,0 (1.10)	280 (4000)	320 (4600)	350 (5000)	2800 r/min	1800r/min
020	20,1 (1.22)	230 (3300)	250 (3600)	280 (4000)	2800 r/min	1800r/min
045	45,1 (2.75)	280 (4000)	320 (4600)	350 (5000)	2600 r/min	1800r/min
050	50,0 (3.05)	230 (3300)	250 (3600)	280 (4000)	2600 r/min	1800r/min
057	57,4 (3.50)	280 (4000)	320 (4600)	350 (5000)	2500 r/min	1800r/min
063	63,1 (3.85)	230 (3300)	250 (3600)	280 (4000)	2500 r/min	1800r/min
074	73,7 (4.50)	280 (4000)	320 (4600)	350 (5000)	2400 r/min	1800r/min
081	81,0 (4.94)	230 (3300)	250 (3600)	280 (4000)	2400 r/min	1800r/min
098	98,3 (6.00)	280 (4000)	320 (4600)	350 (5000)	2200 r/min	1800r/min
106	106,5 (6.50)	230 (3300)	250 (3600)	280 (4000)	2200 r/min	1800r/min
131	131,1 (8.00)	280 (4000)	320 (4600)	350 (5000)	2000 r/min	1800r/min
141	141,0 (8.60)	230 (3300)	250 (3600)	280 (4000)	2000 r/min	1800r/min

\*Less than 10% of duty cycle. \*\*Less than 0.5 second.

### (3) Valve Plate

**E** = Industrial

**M** = Mobile Equipment

### (4) Rotation (viewed from shaft end)

**R** = Clockwise (Righthand)

**L** = Counter-clockwise (Lefthand)

### (5) Input Shaft Options

Model	SAE Keyed Shaft Codes	SAE Spline Shaft Codes
<b>PVM018/020</b>	<b>01</b> = SAE "A" 5/8" Keyed (15.88mm) <b>02</b> = SAE "AH" 3/4" Keyed (19.05mm) <b>05</b> = SAE "B" 7/8" Keyed (22.22mm)	<b>03</b> = SAE "A" 9T 5/8" Spline <b>04</b> = SAE "AH" 3/4" 11T Spline <b>07</b> = SAE "B" 7/8" 13T Spline
<b>PVM045/050</b>	<b>06</b> = SAE "BB" 1" Keyed (25.37mm)	<b>08</b> = SAE "BB" 1" 15T Spline
<b>PVM057/063</b>	<b>09</b> = SAE "C" 1 1/4" Keyed (31.75mm)	<b>11</b> = SAE "C" 1 1/4" 14T Spline
<b>PVM074/081 PVM098/106</b>	<b>09</b> = SAE "C" 1 1/4" Keyed (31.75mm) <b>10</b> = SAE "CC" 1 1/2" Keyed (38.1mm)	<b>11</b> = SAE "C" 1 1/4" 14T Spline <b>12</b> = SAE "CC" 1 1/2" 17T Spline
<b>PVM131/141</b>	<b>10</b> = SAE "CC" 1 1/2" Keyed (38.1mm)	<b>12</b> = SAE "CC" 1 1/2" 17T Spline

Most common options are shown, please contact Goldquest for additional options

### (6) Mounting Flange

Mounting Flange Code	Description	Model					
		PVM018/020	PVM045/050	PVM057/063	PVM074/081	PVM098/106	PVM131/141
<b>A</b> =	SAE A, 2-Bolt	●	-	-	-	-	-
<b>C</b> =	SAE B, 2-Bolt	●	●	●	-	-	-
<b>E</b> =	SAE C, 2-Bolt	-	-	●	●	●	●
<b>G</b> =	SAE C, 4-Bolt	-	-	●	●	●	●
<b>J</b> =	SAE D, 4-Bolt	-	-	-	-	-	●

Most common options are shown, please contact Goldquest for additional options

# Piston Pumps

## (7) Main Port Location

**E** = End Ported  
**S** = Side Ported

## (8) Main Port Type

Model	Code	Inlet	Outlet
<b>PVM018/020</b>	<b>01</b> =	SAE-20 (O-ring)	SAE-12 (O-ring)
	<b>02</b> =	1/1/4" SAE 4-Bolt Code 61 (3/8"UNC Bolts)	3/4" SAE 4-Bolt Code 61 (3/8"UNC Bolts)
<b>PVM045/050</b>	<b>02</b> =	2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-BoltCode 61 (3/8"UNC Bolts)
<b>PVM057/063</b>	<b>02</b> =	2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 61 (3/8"UNC Bolts)
<b>PVM074/081</b>	<b>02</b> =	2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 62 (3/8"UNC Bolts)
<b>PVM098/106</b>	<b>02</b> =	2 1/2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 61 (3/8"UNC Bolts)
<b>PVM131/141</b>	<b>02</b> =	2 1/2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1 1/4" SAE 4-Bolt Code 62 (1/2"UNC Bolts)

Most common options are shown, please contact Goldquest for additional options

## (9) Pump Special Features

**00** = None  
**AA** = Adjustable Maximum Displacement Stop and single shaft (standard)  
**AB** = Double Shaft Seal, Two Way

## (10) Control Options

**0** = None  
**A** = Pressure Compensator Control  
**B** = Load Sensing & Pressure Compensator Control with Bleed Orifice  
**C** = Load Sensing & Pressure Compensator Control with Plugged Orifice  
**E** = Industrial Control (57cc through 141 cc only)

## (11) Pressure Compensator Setting

**00** = None  
**07 = 70** bar (Adjustable between 40 bar and 130 bar)  
**23 = 230** bar (Adjustable between 130 bar and 320 bar)  
**28 = 280** bar (Adjustable between 130 bar and 320 bar)

## (12) Load Sensing Differential Setting

**00** = None  
**11** = 11 bar setting  
**20** = 20-20 bar setting  
**24** = 24-24 bar setting

## (13) Torque Limiter Setting

**00** = None (not available on M series)

## (14) Compensator Special Features

**00** = None (not available on M series)

## (15) Thru-Drive Mounting Pad

Mounting Pad Code	Description	Model					
		PVM018/020	PVM045/050	PVM057/063	PVM074/081	PVM098/106	PVM131/141
<b>0</b> =	Non Thru Drive	●	●	●	●	●	●
<b>A</b> =	SAE A, 2-Bolt 9T Spline	●	●	●	●	●	●
<b>C</b> =	SAE B 2-1/4-Bolt 13T Spline	-	●	●	●	●	●
<b>E</b> =	SAE C 2-1/4-Bolt 14T Spline	-	-	●	●	●	●
<b>F</b> =	SAE C-C 2-1/4-Bolt 17T Spline	-	-	-	●	●	●

Note: For more detailed information please request catalogue V-PP-MC-0003-E

# Vickers™ H Series - Mobile Open Circuit Piston Pumps



## Part Number Formulation

Model Code	PVH	131	R	13	AF	1	0	A	25	00	00	0	1	00	1
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)

### (1) Pump Series

PVH = H Series Variable Displacement Piston Pumps

### (2) Displacement, Pressure and Flow Ratings at 93°C, SAE 10W oil, 1 bar absolute (0 psig) inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Cont' Pressure†	Rated Speed	
			Mobile	Industrial
057	57,4 (3.50)	250 (3625)	2400 r/min	1500r/min
074	73,7 (4.50)	250 (3625)	2400 r/min	1500r/min
098	98,3 (6.00)	250 (3625)	2100 r/min	1500r/min
131	131,1 (8.00)	250 (3625)	2000 r/min	1500r/min

† In load sensing systems the compensator can be set at 280 bar (4060 psi).

### (3) Rotation (viewed from shaft end)

R = Clockwise (Righthand)  
L = Counter-clockwise (Lefthand)

### (4) Mounting Flange and Input Shaft Options

Code	Mounting Flange	Shaft
01=	SAE C, 4-Bolt	SAE "C" 1 1/4" (31.8mm) Keyed, 56mm Shaft Extension
02=	SAE C, 4-Bolt	SAE "C" 1 1/4" 14T Spline, 56mm Shaft Extension
03=	SAE C, 4-Bolt	SAE "CC" 1 1/2" 17T Spline, 62mm Shaft Extension
13=	SAE C, 4-Bolt	SAE "CC" 1 1/2" (38.1mm) Keyed, 62mm Shaft Extension

Most common options are shown, please contact Goldquest for additional options

### (5) Main Port Location and Size

Code	Location	Inlet	Outlet
AA=	Side Ported	2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 61 (3/8"UNC Bolts)
AF=	Side Ported	2 1/2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1 1/4" SAE 4-Bolt Code 62 (1/2"UNC Bolts)
AJ=	Side Ported	2 1/2" SAE 4-Bolt Code 61 (1/2"UNC Bolts)	1" SAE 4-Bolt Code 61 (3/8"UNC Bolts)

Most common options are shown, please contact Goldquest for additional options

### (6) Drain Port Size and Location

Code	Location	Size
1 =	Bottom (Top Plugged)	3/4" -16UNF-2B SAE O-ring port
3 =	Bottom (Top Plugged)	7/8" -14UNF-2B SAE O-ring port

### (7) Diagnostic Port

0 = No Diagnostic Port  
1 = 7/16" UNF-2B SAE O-ring Port (Plugged)

# Piston Pumps

## (8) Control Options

- A** = Pressure Compensator Control
- B** = Load Sensing & Pressure Compensator Control
- D** = Pressure Compensator with Torque Limiting Control
- E** = Load Sensing with Torque Limiting & Pressure Compensator Control

## (9) Pressure Compensation Setting

- 00** = None
- 07** = 66-74 bar
- 25** = 246 - 254 bar

## (10) Load Sensing Differential Setting

- 00** = None
- 20** = 19-21 bar setting

Most common options are shown, please contact Goldquest for additional options

## (11) Torque Sensing Setting

- 00** = None
- 04** = 36-44 Bar Setting

## (12) Control Special Features

- 0** = None

Please contact Goldquest for special control features

## (13) Maximum Displacement Option

- 1** = Standard Displacement

Please contact Goldquest for limited displacement options

## (14) Thru-Drive Mounting Pad and Shaft

- 00** = Non Thru-drive
- AA** = SAE A 2-/4-Bolt with 14T Spline Shaft (Spline Coupling Excluded)
- AE** = SAE A 2-/4-Bolt with 15T Spline Shaft (Spline Coupling Excluded)

Note: PVH Thru-drive models can also be fitted with adaptor pads for SAE B or SAE C

## (15) Shaft Seal Options

- 1** = Single, One Way Shaft Seal
- 2** = Double, Two Way Shaft Seal

## PVH Thru-drive Adaptor Flange Kits and Spline Shaft Couplings

Front Pump Model	Mounting Flange for Rear Pump	Adaptor Kit Part Number		Spline Coupling Part Number
		Metric Threads	Inch Threads	
PVH57	A (J744-82-2)	None required	None required	526682
	B (J744-101-2/4)	876394	876390	526694
	BB (J744-101-2/4)	876394	876390	526695
	C (J744-127-2/4)	876392	876389	526696
PVH74	A (J744-82-2)	None required	None required	864460
	B (J744-101-2/4)	876394	876390	864457
	BB (J744-101-2/4)	876394	876390	864459
	C (J744-127-2/4)	876392	876389	864458
	CC (J744-127-2/4)	876392	876389	864461
PVH 98 / PVH131	A (J744-82-2)	None required	None required	877039
	B (J744-101-2/4)	876394	876390	877040
	BB (J744-101-2/4)	876394	876390	877044
	C (J744-127-2/4)	876392	876389	877045
	CC (J744-127-2/4)	876392	876389	877046

# Vickers™ Q Series - Industrial Open Circuit Piston Pumps



## PVQ10/13 Part Number Formulation

Model Code	PVQ	10	A2	R	SE	1	S	20	C21	12
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

### (1) Pump Series

**PVQ** = Q Series Open Circuit Variable Displacement Piston Pumps for Industrial Application

### (2) Displacement, Pressure and Flow Ratings at 49°C, SAE 10W oil, 0.2 bar inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Cont' Pressure†	Rated Speed
<b>10</b>	10,5 cc/rev (0.64 cir),	210 Bar	1800 r/min
<b>13</b>	13,8 (0.843)	140 Bar	1800 r/min

### (3) Mounting Flange

**A2** = SAE A

### (4) Rotation (viewed from shaft end)

**R** = Clockwise (Righthand)  
**L** = Counter-clockwise (Lefthand)

### (5) Main Port Location and Size

Code	Location	Inlet	Outlet
<b>SE =</b>	Rear Ported	1 1/16" SAE O-Ring	1 1/16" SAE O-Ring

### (6) Input Shaft Options

**1** = SAE "AH" 3/4" Keyed (19.05mmØ 44.45 Lenght)  
**3** = SAE "A" 5/8" 9T Spline

### (7) Seals

**S** = Buna (Standard)

Contact Goldquest for other options

### (8) Pump Design Number

**20** = 20 Design (Subject to change)

### (9) Control Options and Settings

**C21** = Pressure Compensator 210 Bar Setting (PVQ10 only)

**C14** = Pressure Compensator 138 Bar Setting (PVQ13 Only)

**C21V11B** = 210 Pressure Compensator and 11 Bar Load Sense Differential Setting, with bleed down orifice (PVQ10 Only)

**C21V11P** = 210 Pressure Compensator and 11 Bar Load Sense Differential Setting, plugged bleed down orifice (PVQ10 Only)

**CG** = Pressure Compensator modified for hydraulic remote control

Most common options are shown, please contact Goldquest for additional options

### (10) Control Design

**12** = O-ring seal design

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## Vickers™ Q Series - Industrial Open Circuit Piston Pumps



### PVQ20/32 Part Number Formulation

Model Code	PVQ	20	B2	R	A9	SE	1	S	21	C21	D	12
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

#### (1) Pump Series

**PVQ** = Q Series Open Circuit Variable Displacement Piston Pumps for Industrial Application

#### (2) Displacement, Pressure and Flow Ratings at 49°C, SAE 10W oil, 0.2 bar inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Cont' Pressure†	Rated Speed
<b>20</b>	21,1 cc/rev (1.29 cir)	210 Bar	1800 r/min
<b>32</b>	32,9 cc/rev (2.01 cir)	140 Bar	1800 r/min

#### (3) Mounting Flange

**B2** = SAE B

#### (4) Rotation (viewed from shaft end)

**R** = Clockwise (Righthand)  
**L** = Counter-clockwise (Lefthand)

#### (5) Thru-Drive Mounting Pad and Shaft Option (Without coupling)

**Blank** = Non thru drive  
**A9** = SAE A pad with 9T Spline shaft (Without Coupling)

#### (6) Main Port Location and Size

Code	Location	Inlet	Outlet
<b>SE</b> =	Rear Ported	1 5/8" SAE O-Ring	1 5/8" SAE O-Ring
<b>SS</b> =	Side Ported	1 5/8" SAE O-Ring	1 5/8" SAE O-Ring

#### (7) Input Shaft Options

**1** = SAE "B" 7/8" Keyed (22.22mmØ 58.67mm Length)  
**3** = SAE "B" 7/8"13T Spline

#### (8) Seals

**S** = Buna (Standard)  
Contact Goldquest for other options

#### (9) Pump Design Number

**21** = 21 Design (Subject to change)

#### (10) Control Options and Settings

**C14** = Pressure Compensator 138 Bar Setting (PVQ32 Standard Option)  
**CM7** = Low Pressure Compensator, 70 Bar Setting  
**C21V11B** = 210 Pressure Compensator and 11 Bar Load Sense Differential Setting, with bleed down orifice (PVQ20 Only)  
**C21V11P** = 210 Pressure Compensator and 11 Bar Load Sense Differential Setting, plugged bleed down orifice (PVQ20 Only)  
**CG** = Pressure Compensator modified for hydraulic remote control

Most common options are shown, please contact Goldquest for additional options

#### (11) Maximum Displacement Option

**Blank** = Without adjustable maximum displacement stop (standard)  
**D** = Adjustable maximum displacement stop (optional)

#### (12) Control Design

**12** = C\*\* / CM\*\*/ C\*\*D / CM\*\*D  
**13** = C\*\*V(C)\*\*B and C\*\*V(C)\*\*P



# Vickers™ Q Series - Industrial Open Circuit Piston Pumps



## PVQ40A/45A Part Number Formulation

Model Code	PVQ	40A	R	01	AA	1	0	G	18	00	00	0	1	00	1	00	CD	A
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

### (1) Pump Series

**PVQ** = Q Series Open Circuit Variable Displacement Piston Pumps for Industrial Application

### (2) Displacement, Pressure and Flow Ratings at 82°C, SAE 10W oil, 0 bar inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Cont' Pressure†	Rated Speed
<b>40A</b>	41.0cm <sup>3</sup> /r [2.50 in <sup>3</sup> /r]	210 Bar	1800 r/min
<b>45A</b>	45.1cm <sup>3</sup> /r [2.75 in <sup>3</sup> /r]	186 Bar	1800 r/min

### (3) Rotation (viewed from shaft end)

**R** = Clockwise (Righthand)  
**L** = Counter-clockwise (Lefthand)

### (4) Mounting Flange and Input Shaft Options

Code	Mounting Flange	Shaft
<b>01 =</b>	SAE B, 2-Bolt	SAE "B" 7/8" (22.22mm) Keyed
<b>02 =</b>	SAE B, 2-Bolt	SAE "BB" 1" (25.4mm) Keyed
<b>05 =</b>	SAE B, 2-Bolt	SAE "B" 7/8" 13T Spline Shaft
<b>08 =</b>	SAE B, 2-Bolt	SAE "BB" 1" 15T Spline Shaft

### (5) Main Port Location and Size

Code	Location	Inlet	Outlet
<b>AA =</b>	Side Ported	1 7/8" -12 UN-2B SAE O-Ring	1 5/16" -12 UN-2B SAE O-Ring
<b>AB =</b>	Rear Ported	1 7/8" -12 UN-2B SAE O-Ring	1 5/16" -12 UN-2B SAE O-Ring

Most common options are shown, please contact Goldquest for additional options

### (6) Drain Port Size and Location

**1** = 7/8" -14UNF-2B SAE O-ring port - Top

### (7) Diagnostic Port

**0** = No Diagnostic Port  
**1** = 7/16" UNF-2B SAE O-ring Port (Plugged)

### (8) Control Options

**G** = Adjustable Pressure Compensator Control  
**H** = Load Sensing & Pressure Compensator Control  
**J** = Adjustable hydraulic remote control pressure compensator

Contact Goldquest for other options

# Piston Pumps

## (9) Pressure Compensator Setting Options

**18** = 182.7-189.6 bar  
**33** = 206.8-213.7 bar (PVQ40A Only)

Most common options are shown, please contact Goldquest for additional options

## (10) Load Sensing Differential Setting

**00** = No Load Sensing  
**11** = 9.65-12.41 bar

Most common options are shown, please contact Goldquest for additional options

## (11) Secondary Compensator Setting Options

**00** = No Secondary Compensator

Please contact Goldquest for additional options

## (12) Control Special Features

**0** = No Special Features  
**A** = Bleed down orifice  
**B** = External manual stroke adjustment

## (13) Maximum Displacement Option

**1** = Standard displacement stop  
**2** = Adjustable maximum displacement stop (set at maximum)

## (14) Thru-Drive Mounting Pad and Output Shaft

**00** = Non Thru-drive  
**AA** = SAE A 2-Bolt with 9T Spline Shaft (Spline Coupling Excluded)  
**AE** = SAE B 2-Bolt with 26T Spline Shaft (Spline Coupling Excluded)

Most common options are shown, please contact Goldquest for additional options

## (15) Shaft Seal

**1** = Standard Shaft Seal (Flurocarbon)  
**8** = HNBR (Water Glycol Applications)

## (16) Pump Special Features

**00** = No Special Features

## (17) Paint

**CD** = Blue Primer

## (18) Pump Design Number

**A** = First Design (Subject to change)

# Vickers™ E Series - Mobile Open Circuit Piston Pumps



## PVE012 Part Number Formulation

Model Code	PVE	012	R	01	AU	B	0	A	00	00	00	0	1	00	1	00	CD	A
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	

### (1) Pump Series

**PVE** = E Series Open Circuit Variable Displacement Piston Pumps for Mobile Application

### (2) Displacement, Pressure and Flow Ratings at 49°C, SAE 10W oil, 0 bar inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Cont' Pressure†	Rated Speed
<b>012</b>	25.2cm <sup>3</sup> /r [1.54 in <sup>3</sup> /r]	210 Bar	3000 r/min

### (3) Rotation (viewed from shaft end)

**R** = Clockwise (Righthand)  
**L** = Counter-clockwise (Lefthand)

### (4) Mounting Flange and Input Shaft Options

Code	Mounting Flange	Shaft
<b>01</b> =	SAE B, 2-Bolt	SAE "B" 7/8" (22.22mm) Keyed
<b>05</b> =	SAE B, 2-Bolt	SAE "B" 7/8" 13T Spline 41.1mm length

### (5) Main Port Location and Size

Code	Location	Inlet	Outlet
<b>AU</b> =	Rear Ported	1 5/8" -12 UN-2B SAE O-Ring	1 1/16" -12 UN-2B SAE O-Ring

### (6) Drain Port Size and Location

**B** = 3/4" -16UNF-2B SAE O-ring port - Top

### (7) Diagnostic Port

**0** = No Diagnostic Port

### (8) Control Options

**A** = Adjustable Pressure Compensator Control  
**B** = Load Sensing & Pressure Compensator Control  
Please contact Goldquest for additional options

### (9) Pressure Compensator Setting Options

**00** = No Pressure Compensator  
**21** = 206.8-213.7 bar

### (10) Load Sensing Differential Setting

**00** = No Load Sensing  
**11** = 9.65-12.41 bar

Most common options are shown, please contact Goldquest for additional options

# Piston Pumps

## (11) Secondary Compensator Setting Options

**00** = No Secondary Compensator

Please contact Goldquest for additional options

## (12) Control Special Features

**0** = No Special Features

**A** = Bleed down orifice (Load Sense Only)

Please contact Goldquest for additional options

## (13) Maximum Displacement Option

**1** = Standard displacement stop

**2** = Adjustable maximum displacement stop (set at maximum)

## (14) Thru-Drive Mounting Pad and Output Shaft

**00** = Non Thru-drive

## (15) Shaft Seal

**1** = Standard Shaft Seal (Nitrile)

**3** = Fluorocarbon Shaft Seal

## (16) Pump Special Features

**00** = No Special Features

## (17) Paint

**CD** = Blue Primer

## (18) Pump Design Number

**A** = First Design (Subject to change)

# Vickers™ E Series - Mobile Open Circuit Piston Pumps



## PVE19A/21A Part Number Formulation

Model Code	PVE	19A	R	01	AA	1	0	A	00	00	00	0	1	00	1	00	CD	A
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

### (1) Pump Series

PVE = E Series Open Circuit Variable Displacement Piston Pumps for Mobile Application

### (2) Displacement, Pressure and Flow Ratings at 49°C, SAE 10W oil, 0 bar inlet

Model Code	Displacement cm <sup>3</sup> /r (in <sup>3</sup> /r)	Rated Cont' Pressure†	Rated Speed
19A	41.0cm <sup>3</sup> /r [2.50 in <sup>3</sup> /r]	210 Bar	2400 r/min
21A	45.1cm <sup>3</sup> /r [2.75 in <sup>3</sup> /r]	186 Bar	2400 r/min

### (3) Rotation (viewed from shaft end)

R = Clockwise (Righthand)  
L = Counter-clockwise (Lefthand)

### (4) Mounting Flange and Input Shaft Options

Code	Mounting Flange	Shaft
01 =	SAE B, 2-Bolt	SAE "B" 7/8" (22.22mm) Keyed
02 =	SAE B, 2-Bolt	SAE "BB" 1" (25.4mm) Keyed
05 =	SAE B, 2-Bolt	SAE "B" 7/8" 13T Spline 41.1mm length
08 =	SAE B, 2-Bolt	SAE "BB" 1" 15T Spline

Most common options are shown, please contact Goldquest for additional options

### (5) Main Port Location and Size

Code	Location	Inlet	Outlet
AA =	Side Ported	1 7/8" -12 UN-2B SAE O-Ring	1 5/16" -12 UN-2B SAE O-Ring

### (6) Drain Port Size and Location

1 = 3/4" -16UNF-2B SAE O-ring port - Top

### (7) Diagnostic Port

0 = No Diagnostic Port

### (8) Control Options

A = Adjustable Pressure Compensator Control  
B = Load Sensing & Pressure Compensator Control

Please contact Goldquest for additional options

### (9) Pressure Compensator Setting Options

00 = No Pressure Compensator  
18 = 182.7-189.6 bar  
21 = 206.8-213.7 bar

# Piston Pumps

## (10) Load Sensing Differential Setting

**00** = No Load Sense  
**11** = 9.65-12.41 bar

Most common options are shown, please contact Goldquest for additional options

## (11) Secondary Compensator Setting Options

**00** = No Secondary Compensator

Please contact Goldquest for additional options

## (12) Control Special Features

**0** = No Special Features

**A** = Bleed down orifice (Load Sense Only)

Please contact Goldquest for additional options

## (13) Maximum Displacement Option

**1** = Standard displacement stop

**2** = Adjustable maximum displacement stop (set at maximum)

## (14) Thru-Drive Mounting Pad and Output Shaft

**00** = Non Thru-drive

**AA** = SAE A 2-Bolt with 9T Spline Shaft (Spline Coupling Excluded)

**AE** = SAE B 2-Bolt with 26T Spline Shaft (Spline Coupling Excluded)

Most common options are shown, please contact Goldquest for additional options

## (15) Shaft Seal

**1** = Standard Shaft Seal (Nitrile)

**3** = Fluorocarbon Shaft Seal

## (16) Pump Special Features

**00** = No Special Features

**AF** = Cast Iron Housing (Note: Std housing in in aluminium)

## (17) Paint

**CD** = Blue Primer

## (18) Pump Design Number

**A** = First Design (Subject to change)

## Vickers Hydrokraft™ PVW & PFW Series - Open Circuit Piston Pumps



- Pressures up to 420 Bar
- Axial piston pumps with swash plate design for reliable operation and long life.
- Rated speed up to 1800/min.
- Higher speeds possible.
- Oversize shafts and bearings.
- Rotating and pressure loaded parts are pressure balanced.
- Through drive enable multiple pump installations from a single shaft. Multiple pump combinations are also available.
- "Building block" design gives these pumps a wide range of application.
- Fast response times.

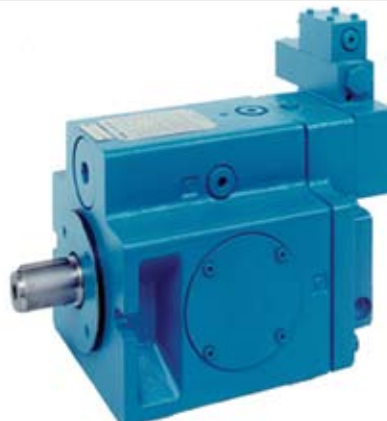
Model Code	Maximum Displacement cm <sup>3</sup> /rev [inch <sup>3</sup> /rev]	"Geom. Output flow** at max rated speed l/min [USgpm]"	"Max. Rated** Speed min-1 [rpm]"	"Rated Pressure bar [psi]"	"Max. Pressure bar [psi]"
PV(F)W*-130	These models will be available soon.				
PV(F)W*-180					
PV(F)W*-250	250 [15.2]	450 [119]	1800	350 [5075]	420 [6090]
PV(F)W*-360	360 [22]	540 [142]	1500	350 [5075]	420 [6090]
PV(F)W*-500	500 [30,5]	900 [238]	1800	350 [5075]	420 [6090]
PV(F)W*-750	750 [45,7]	900 [238]	1200	350 [5075]	420 [6090]

For more detailed information please request catalogue V-PUPI-TM003-E

\*\*For higher speeds, please contact your Goldquest representative

# Piston Pumps

## Vickers Hydrokraft™ PVX & PFX Series - Open Circuit Piston Pumps



- Pressures up to 420 Bar
- Axial piston pumps with swash plate design for reliable operation and long life.
- Rated speed up to 1800/min.
- Higher speeds possible.
- Oversize shafts and bearings.
- Rotating and pressure loaded parts are pressure balanced.
- Through drive enable multiple pump installations from a single shaft. Multiple pump combinations are also available.
- “Building block” design gives these pumps a wide range of application.
- Fast response times.

Model Code	Maximum Dis- placement cm <sup>3</sup> /rev [inch <sup>3</sup> /rev]	“Geom. Output flow** at max rated speed l/min [USgpm]”	“Max.Rated** Speed min-1 [rpm]”	“Rated Pressure bar [psi]”	“Max. Pressure bar [psi]”
<b>PV(F)X*-066</b>	66 [4.1]	118 [32]	1800	350 [5075]	420 [6090]
<b>PV(F)X*-090</b>	90 [5.5]	162 [43]	1800	350 [5075]	420 [6090]
<b>PV(F)X*-130</b>	130 [7.9]	234 [62]	1800	350 [5075]	420 [6090]
<b>PV(F)X*-180</b>	180 [11]	324 [86]	1800	350 [5075]	420 [6090]
<b>PV(F)X*-250</b>	250 [15.2]	450 [119]	1800	350 [5075]	420 [6090]

For more detailed information please request catalogue V-PUPI-TM004-E

\*\*For higher speeds, please contact your Goldquest representative



## Vickers Hydrokraft™ TVW Series - Closed Circuit Piston Pumps

**EATON** Vickers



- Pressures up to 420 Bar
- Axial piston pumps with swash plate design for reliable operation and long life.
- Rated speed up to 1800/min.
- Higher speeds possible.
- Oversize shafts and bearings.
- Rotating and pressure loaded parts are pressure balanced.
- Through drive enable multiple pump installations from a single shaft. Multiple pump combinations are also available.
- "Building block" design gives these pumps a wide range of application.
- Fast response times.

Model Code	Maximum Dis- placement cm <sup>3</sup> /rev [inch <sup>3</sup> /rev]	"Geom. Output flow** at max rated speed l/min [USgpm]"	"Max. Rated** Speed min-1 [rpm]"	"Rated Pressure bar [psi]"	"Max. Pressure bar [psi]"
<b>TVW*-130</b>	130 [7.9]	234 [62]	1800	350 [5075]	420 [6090]
<b>TVW*-180</b>	180 [11]	324 [86]	1800	350 [5075]	420 [6090]
<b>TVW*-250</b>	250 [15.2]	450 [119]	1800	350 [5075]	420 [6090]
<b>TVW*-360</b>	360 [22]	648 [171]	1800	350 [5075]	420 [6090]
<b>TVW*-500</b>	500 [30,5]	900 [238]	1800	350 [5075]	420 [6090]
<b>TVW*-750</b>	750 [45,7]	1125 [297]	1500 (1800)***	350 [5075]	420 [6090]

For more detailed information please request catalogue V-PUPI-TM002-E

\*\*\*For higher speeds, please contact your Goldquest representative

# Piston Pumps

## Vickers Hydrokraft™ TVX Series - Closed Circuit Piston Pumps



- Pressures up to 420 Bar
- Axial piston pumps with swash plate design for reliable operation and long life.
- Rated speed up to 1800/min.
- Higher speeds possible.
- Oversize shafts and bearings.
- Rotating and pressure loaded parts are pressure balanced.
- Through drive enable multiple pump installations from a single shaft. Multiple pump combinations are also available.
- “Building block” design gives these pumps a wide range of application.
- Fast response times.

Model Code	Maximum Dis- placement cm <sup>3</sup> /rev [inch <sup>3</sup> /rev]	“Geom. Output flow** at max rated speed l/min [USgpm]”	“Max. Rated** Speed min <sup>-1</sup> [rpm]”	“Rated Pressure bar [psi]”	“Max. Pressure bar [psi]”
<b>TVX*-066</b>	66 [4.1]	118 [32]	1800	350 [5075]	420 [6090]
<b>TVX*-090</b>	90 [5.5]	162 [43]	1800	350 [5075]	420 [6090]
<b>TVX*-130</b>	130 [7.9]	234 [62]	1800	350 [5075]	420 [6090]
<b>TVX*-180</b>	180 [11]	324 [86]	1800	350 [5075]	420 [6090]
<b>TVX*-250</b>	250 [15.2]	450 [119]	1800	350 [5075]	420 [6090]

For more detailed information please request catalogue V-PUPI-TM001-E

\*\*For higher speeds, please contact your Goldquest representative