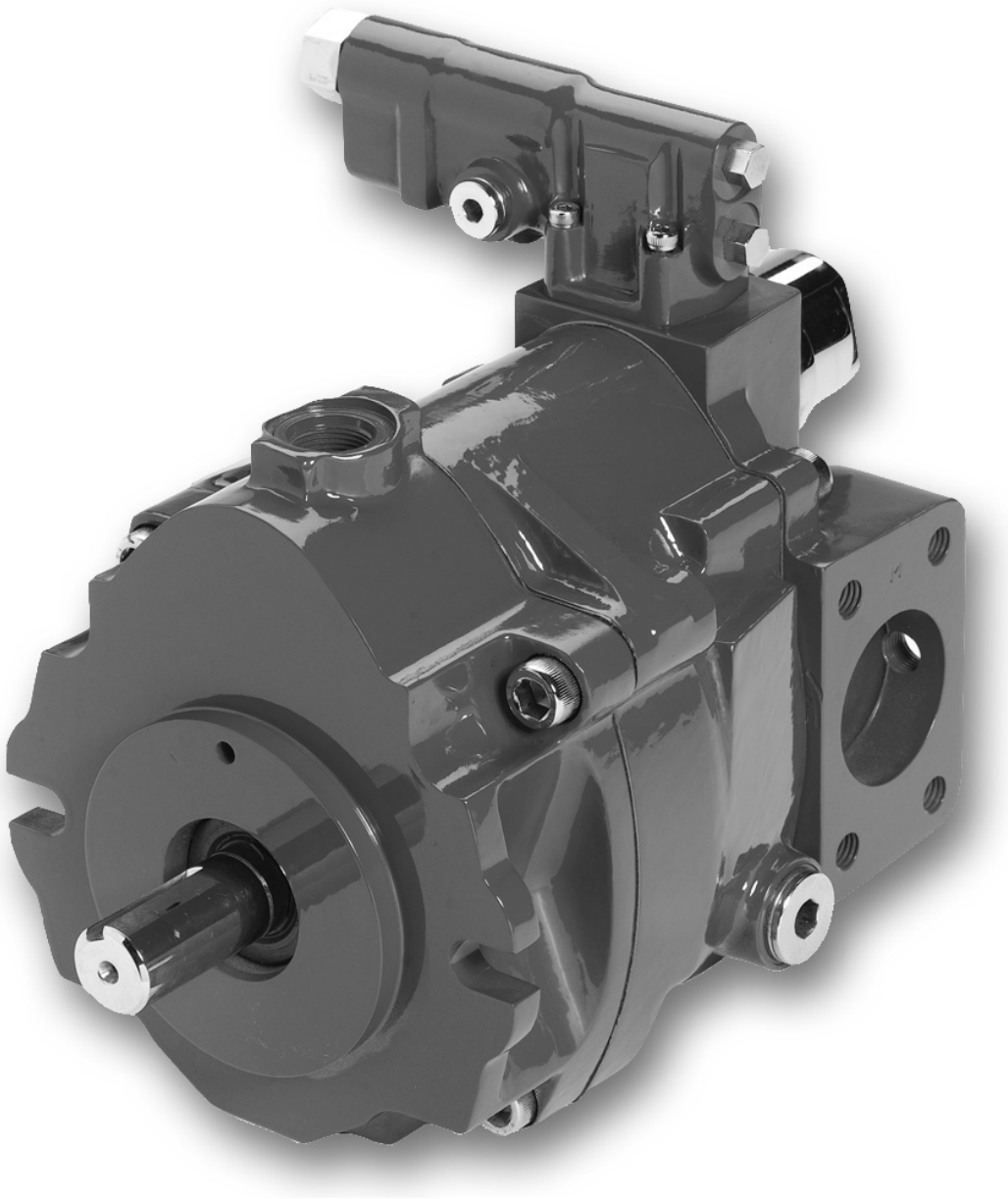
EATON | Vickers

PVM Piston Pumps

Parts

Model PVM018/020
Model PVM028/032
Model PVM045/050
Model PVM057/063
Model PVM074/081
Model PVM098/106
Model PVM131/141



VICKERS®

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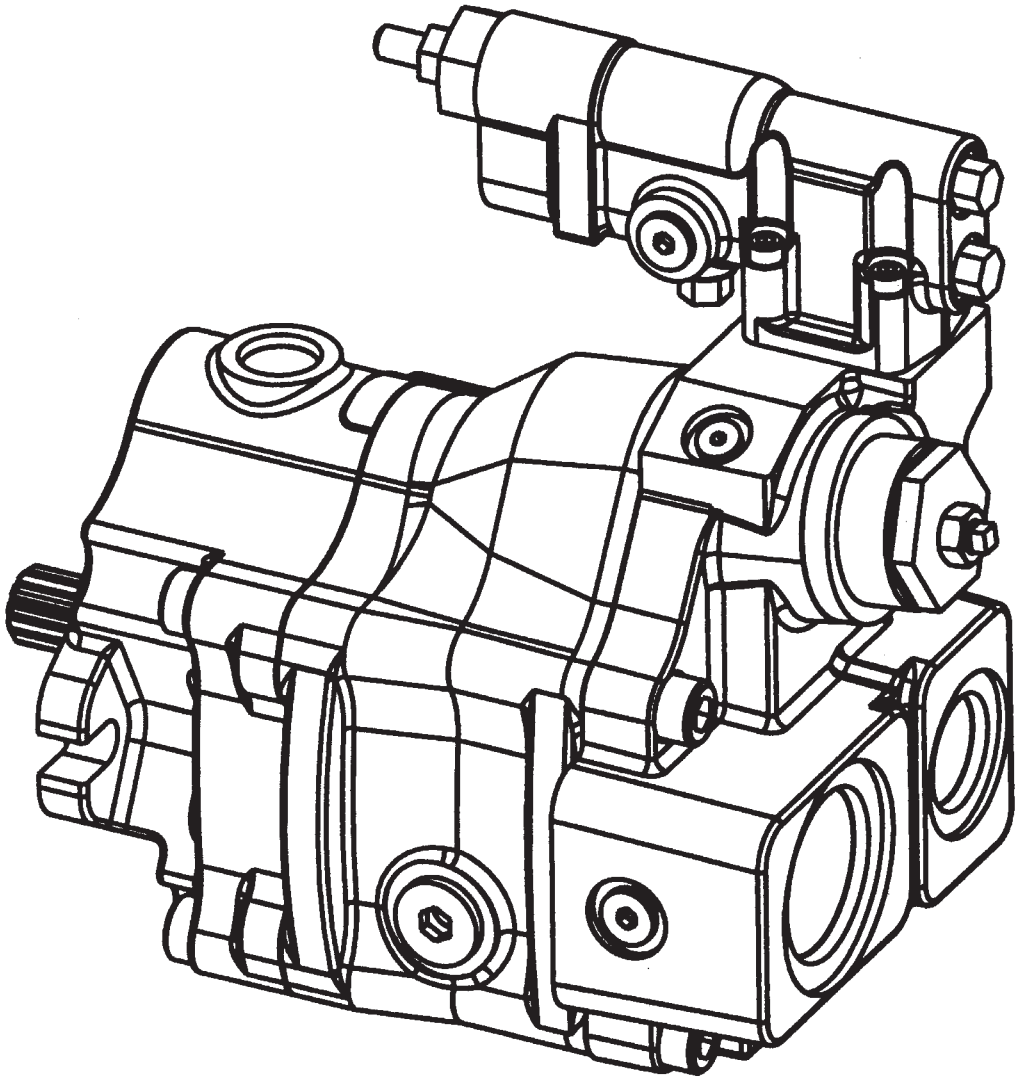
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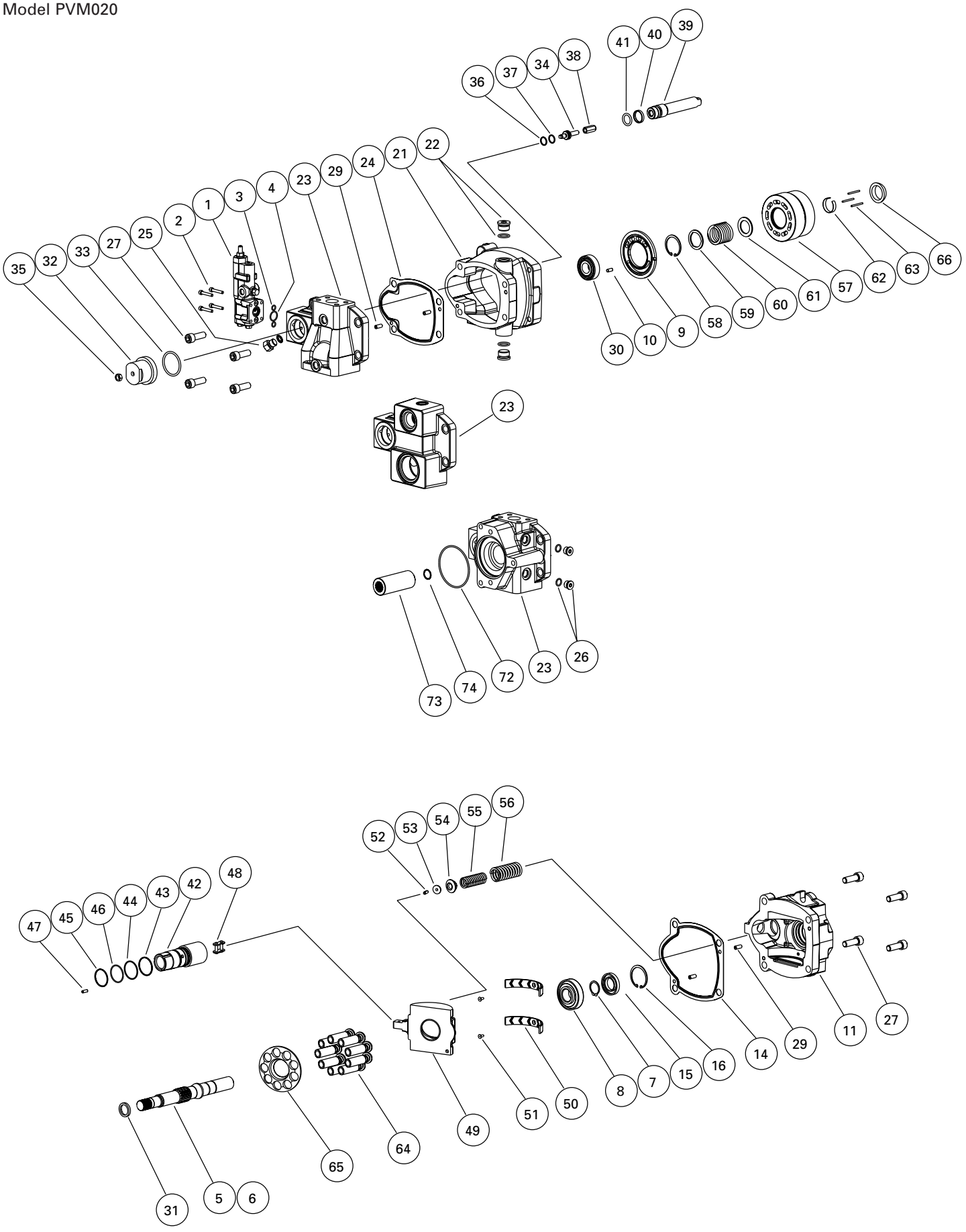
Model 018
Model 020



Identification of Parts

Model PVM018

Model PVM020



Parts List

Model PVM018

Model PVM020

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114953-030	4	A G	Soc HD Cap Screw M5
3	104166-011	2	A B G	O-Ring
4	104166-017	1	A B G	O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	Not Used			Retaining Ring
8	417381	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	16028-303	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	Not Used			Soc HD Cap Screw M5
13	Not Used			Soc HD Cap Screw M5
14	943990	1	B	Flange Gasket
15	937340	1	B F	Shaft Seal
16	101680-162	1	B F	Retaining Ring
17	Not Used			Seal Collar
18	Not Used			Retaining Ring
19	Not Used			O-Ring
20	Not Used			Filter
21	See Table 5	1		Housing
22	See Table 5	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	937317	1	B	Gasket
25	115046-002	1		O-Ring Plug S/A
26	115046-004	2		O-Ring Plug S/A
27	114976-040	8		Soc HD Cap Screw
28	Not Used			Soc HD Cap Screw
29	16026-608	4		Roll Pin
30	02-335336	1	E	Bearing S/A
31	4992182-xxx	A/R	J	Spacer
32	943933	1		Control Cap
33	115016-221	1	B	O-Ring
34	997089	1		Adjustment Screw
35	4992732-001	1		Jam Nut
36	8770-015	1	B	Back-Up Ring
37	104166-015	1	B	O-Ring
38	943934	1		Adjustment Sleeve
39	943931	1		Control Piston
40	937455	1	B	Glide Ring
41	104166-110	1	B	O-Ring
42	943932	1		Sleeve
43	115001-023	1	B	Back-Up Ring
44	104166-023	1	B	O-Ring
45	115001-022	1	B	Back-Up Ring

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
46	104166-022	1	B	O-Ring
47	16028-303	1		Pin
48	932921	1	M	Chain Link
49	943992	1		Swashplate
50	02-340318	2	D	Cradle Bearing S/A
51	Not Used			Screw Socket Flat Head
52	16026-608	1	D	Pin
53	409998	1	D	Button
54	409999	1	D	Spring Seat
55	Not Used			Inner Bias Spring
56	943905	1		Outer Bias Spring
57	937061	1	C	Cylinder Barrel (018)
57	937062	1	C K	Cylinder Barrel (020)
58	101680-145	1	C L	Retaining Ring
59	937338	1	C	Spring Guide, Outer
60	937336	1	C	Spring
61	937337	1	C	Spring Guide, Inner
62	913833	1	C	Pin Retainer
63	937339	3	C	Pin
64	02-334516	9	C K	Piston Shoe S/A (018)
64	02-335670	9	C L	Piston Shoe S/A (020)
65	937069	1	C	Shoe Retainer
66	937070	1	C	Ballguide
67	Not Used			Spacer
68	Not Used			Screw
69	Not Used			Adapter
70	Not Used			Screw
71	Not Used			O-Ring, Adapter
72	104166-152	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	See Table 8	1		Retaining Ring

A Available in control kit. See Table 1.
B Available in seal kit 02-347284.
C Available in rotating group kit 02-347295 for PVM018 or rotating group kit 02-347286 for PVM020.
D Available in yoke and saddle bearing kit 02-347287.
E Available in shaft bearing kit 02-347288.
F Available in single shaft seal kit 02-347290. Equivalent double shaft seal kit 02-347291.
G Available in control mounting kit 9900104-000.
H Seat bearing cone against shoulder.
J Use spacers to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.
K For PVM018 only.
L For PVM020 only.
M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

	MODEL CODE POSITION		(1)
	13, 14	17, 18, 19, 20, 21	
	All	A2800	114969-001
	All	A0700	114969-002
SAE Port	01/02	B2811	114970-001
	01/02	C2811	114970-002
	01/02	B2824	114970-003
	01/02	C2824	114970-004
	01/02	B0711	114970-005
	01/02	C0711	114970-006
	01/02	B0724	114970-007
	01/02	C0724	114970-008
Metric Port	03/04	B2811	114970-009
	03/04	C2811	114970-010
	03/04	B2824	114970-011
	03/04	C2824	114970-012
	03/04	B0711	114970-013
	03/04	C0711	114970-014
	03/04	B0724	114970-015
	03/04	C0724	114970-016
BSPP Port	05	B2811	114970-017
	05	C2811	114970-018
	05	B2824	114970-019
	05	C2824	114970-020
	05	B0711	114970-021
	05	C0711	114970-022
	05	B0724	114970-023
	05	C0724	114970-024

Table 2 – Shaft and Key and Retaining Ring

MODEL CODE POSITION			(5)	(6)
9,10	11	25		
05	C	0	937445	4992730-001
06	C	0	937446	4992730-002
07	C	0	937447	–
08	C	0	937448	–
15	B	0	937456	4992728-001
17	D	0	937088	4992728-002
01	A	0	937183	4992730-006
02	A	0	937184	4992730-007
03	B/C	0	937185	–
04	A/B/C	0	937186	–
05	C	A	937449	4992730-001
06	C	A	937450	4992730-003
07	C	A	937451	4992728-002
08	C	A	937452	–
20	C	0	943941	–
16	B	0	996833	4992728-003
17	D	0	996834	–

Table 3 – Industrial Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
018	ER	937158
018	MR	937159
018	EL	937160
018	ML	937161
020	ER	937412
020	MR	937411
020	EL	937412
020	ML	937414

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
A	01/02	00/AA/AC	937441
A	01/02	AB/AD	943994
A	03/04	00/AA/AC	997020
A	03/04	AB/AD	997021
A	05	00/AA/AC	996928
A	05	AB/AD	996930
B	03/04	00/AA/AC	937442
B	03/04	AB/AD	937443
B	05	00/AA/AC	996929
B	05	AB/AD	996931
C	01/02	00/AA/AC	937429
C	01/02	AB/AD	944105
C	03/04	00/AA/AC	997022
C	03/04	AB/AD	997023
C	05	00/AA/AC	996932
C	05	AB/AD	996934
D	01/02	00/AA/AC	937430
D	01/02	AB/AD	937431
D	03/04	00/AA/AC	–
D	03/04	AB/AD	–
D	05	00/AA/AC	996933
D	05	AB/AD	996935

Table 5 – Housing and Port Plugs

MODEL CODE POSITION 13, 14	(21)	(22)
02	943989	115046-008
01	943989	115046-008
04	937164	115050-018
03	937164	115050-018
05	937165	4992947-001

Table 6 – End Cover (Non Thru Drive)

MODEL CODE POSITION 8	12, 13, 14	(23)
R	S01	937150
R	S02	937435
L	S01	937421
L	S02	937438
R	S03	937151
R	S04	937436
L	S03	937437
L	S04	937439
R	E01	937304
R	E02	937306
L	E01	944173
L	E02	937192
R	E03	937305
R	E04	937307
L	E03	937191
L	E04	937194
R	S05	937052
R	E05	937308
L	S05	937940
L	E05	944170

Table 7 – End Cover (Thru Drive)

MODEL CODE POSITION 8	13, 14	25	(23)
R	01	A/B	937460
R	02	A/B	937187
R	03	A/B	937461
R	04	A/B	937188
R	05	A/B	937462
R	03	G/H	937463
R	04	G/H	937189
R	05	G/H	937464
L	01	A/B	996816
L	02	A/B	996819
L	03	A/B	996817
L	04	A/B	996820
L	05	A/B	996822
L	03	G/H	996818
L	04	G/H	996821
L	05	G/H	996823

Table 8 – Coupling (Thru Drive) and Retaining Ring

MODEL CODE POSITION 25	REF	(73)	(74)
A	A9	937454	101680-062
B	A11	937453	101680-062
C	B13	–	–
D	B15	–	–
G	MA9	937454	101680-062
H	MA11	937453	101680-062
J	MB13	–	–

Torque Values

ITEM	TORQUE VALUES
2	7,4-9 Nm (65-80 in-lb)
22	95-108 Nm (70-80 ft-lb)
25	3.4-4.5 Nm (30.1-39.8 lbf-in)
26	23-25,8 Nm (17-19 ft-lb)
27	63-77 Nm (46-57 ft-lb)
32	210-230 Nm (155-170 ft-lb)
35	18-24 Nm (13-18 ft-lb)

Identification of Model Code

Model PVM018
Model PVM020

PVM	018	E	R	01	A	S	01	AA	A	28	00	00	0	0	A	0	A
1 2 3	4 5 6	7	8	9 10	11	12	13 14	15 16	17	18 19	20 21	22 23	24	25	26	27	28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
018 18.0 cm^3/rev (1.10 in^3/rev) 280 bar
020 21.1 cm^3/rev (1.24 in^3/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
01 SAE J744-16-1 A straight key
02 SAE J744-19-1 19mm straight key
03 SAE J744-16-4 A 9T spline
04 SAE J744-16-4 A 11T spline
05 SAE J744-22-1 B straight key
06 SAE J744-25-1 B-B straight key
07 SAE J744-22-4 B 13T spline
08 SAE J744-25-4 B-B 15T spline

11 Mounting flange
A SAE J744-82-2 (SAE A 2 bolt)
C SAE J744-101-2 (SAE B 2 bolt)

12 Main port location
S Side
E End (na on thru drive)

13 14 Main port type
01 SAE J514 tube ports
02 SAE J518 flange ports
03 ISO 6149-1 tube ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 020 cm^3/rev
28 276-284 bar (4002-4118 psi) 018 cm^3/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

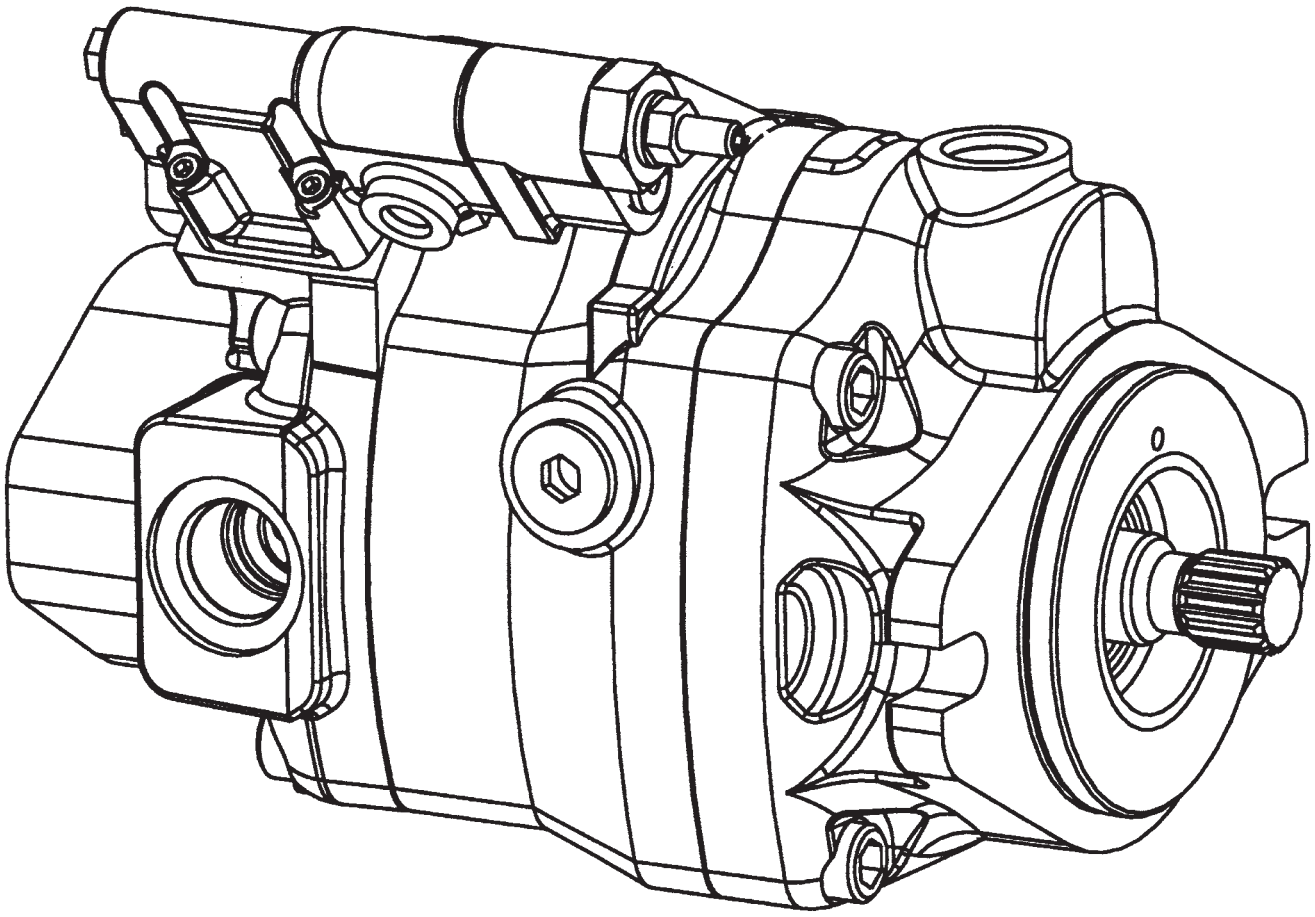
25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline

26 Paint
0 No paint
A Blue (standard)

27 Customer identification
0 None

28 Design code
A A (initial release)

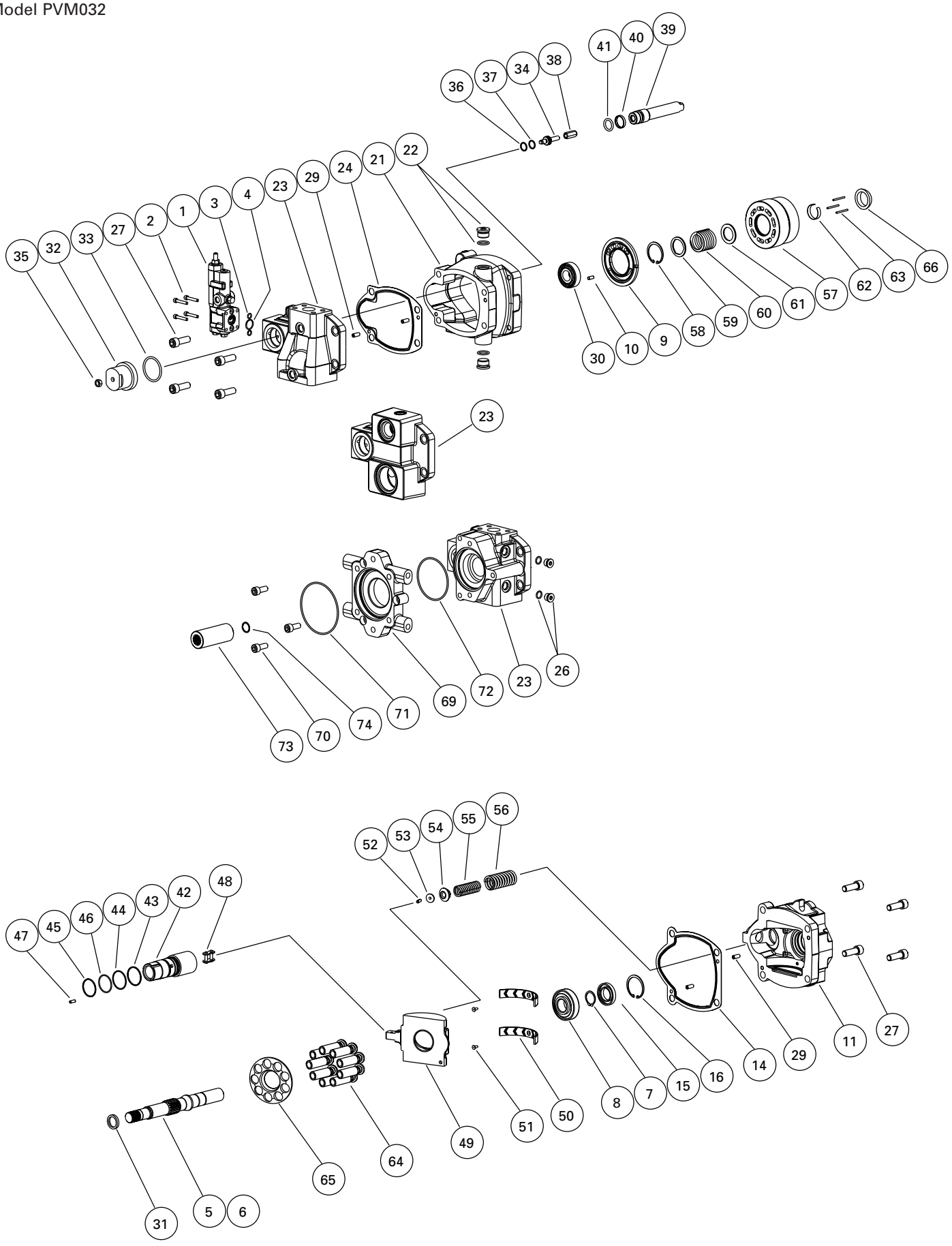
Model PVM028
Model PVM032



Identification of Parts

Model PVM028

Model PVM032



Parts List

Model PVM028

Model PVM032

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114953-030	4	A G	Soc HD Cap Screw M5
3	104166-011	2	A B G	O-Ring
4	104166-017	1	A B G	O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	Not Used			Retaining Ring
8	388153	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	114997-004	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	Not Used			Soc HD Cap Screw M5
13	Not Used			Soc HD Cap Screw M5
14	943916	1	B	Flange Gasket
15	626933	1	B F	Shaft Seal
16	101680-175	1	B F	Retaining Ring
17	Not Used			Seal Collar
18	Not Used			Retaining Ring
19	Not Used			O-Ring
20	Not Used			Filter
21	See Table 5	1		Housing
22	See Table 5	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	943915	1	B	Gasket
25	Not Used			O-Ring Plug S/A
26	115046-004	2		O-Ring Plug S/A
27	114977-045	8		Soc HD Cap Screw
28	Not Used			Soc HD Cap Screw
29	16026-608	4		Roll Pin
30	02-341205	1	E	Bearing S/A
31	4992183-xxx	A/R	J	Spacer
32	997222	1		Control Cap
33	115016-127	1	B	O-Ring
34	997231	1		Adjustment Screw
35	4992732-001	1		Jam Nut
36	8770-015	1	B	Back-Up Ring
37	104166-015	1	B	O-Ring
38	997225	1		Adjustment Sleeve
39	997223	1		Control Piston
40	997075	1	B	Glide Ring
41	8765-112	1	B	O-Ring
42	997224	1		Sleeve
43	115001-025	1	B	Back-Up Ring
44	8765-025	1	B	O-Ring
45	115001-023	1	B	Back-Up Ring
46	8765-023	1	B	O-Ring
47	16028-303	1		Pin
48	932921	1	M	Chain Link
49	943917	1		Swashplate
50	02-341204	2	D	Cradle Bearing S/A
51	Not Used		D	Screw Socket Flat Head
52	16026-608	1	D	Pin
53	409998	1	D	Button
54	934189	1	D	Spring Seat
55	996802	1		Inner Bias Spring
56	943905	1		Outer Bias Spring
57	943908	1	C K	Cylinder Barrel (028)
57	996825	1	C L	Cylinder Barrel (032)
58	101680-150	1	C	Retaining Ring
59	997139	1	C	Spring Guide, Outer
60	247294	1	C	Spring
61	996801	1	C	Spring Guide, Inner
62	913833	1	C	Pin Retainer
63	4992733-001	3	C	Pin
64	02-345703	9	C K	Piston Shoe S/A (028)
64	02-345478	9	C L	Piston Shoe S/A (032)
65	943909	1	C	Shoe Retainer
66	943910	1		Ballguide
67	Not Used			Spacer
68	Not Used			Screw
69	Not Used			Adapter
70	Not Used			Screw
71	Not Used		B	O-Ring, Adapter
72	104166-152	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	Not Used			Retaining Ring

A Available in control kit. See Table 1.

B Available in seal kit xxxxxxxx.

C Available in rotating group kit 02-345215 for PVM028 or rotating group kit xxxxxxxx for PVM032.

D Available in yoke and saddle bearing kit xxxxxxxx.

E Available in shaft bearing kit 02-465599.

F Available in single shaft seal kit 02-345543.

G Available in control mounting kit 9900104-000.

H Seat bearing cone against shoulder.

J Use spacers to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.

K For PVM028 only.

L For PVM032 only.

M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

	MODEL CODE POSITION		(1)
	13, 14	17, 18, 19, 20, 21	
	All	A2800	114969-001
	All	A0700	114969-002
SAE Port	01/02	B2811	114970-001
	01/02	C2811	114970-002
	01/02	B2824	114970-003
	01/02	C2824	114970-004
	01/02	B0711	114970-005
	01/02	C0711	114970-006
	01/02	B0724	114970-007
	01/02	C0724	114970-008
Metric Port	03/04	B2811	114970-009
	03/04	C2811	114970-010
	03/04	B2824	114970-011
	03/04	C2824	114970-012
	03/04	B0711	114970-013
	03/04	C0711	114970-014
	03/04	B0724	114970-015
	03/04	C0724	114970-016
BSPP Port	05	B2811	114970-017
	05	C2811	114970-018
	05	B2824	114970-019
	05	C2824	114970-020
	05	B0711	114970-021
	05	C0711	114970-022
	05	B0724	114970-023
	05	C0724	114970-024

Table 2 – Shaft and Key

MODEL CODE POSITION			(5)	(6)
9,10	11	25		
05	C	0	996804	4992730-001
06	C	0	996805	4992730-003
07	C	0	943919	–
08	C	0	996806	–
15	B	0	997250	4992730-001
01	A	0	997247	4992730-006
04	A	0	997249	–
21	M	0	943881	4993142-011

Table 3 – Industrial Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
028	ER	943882
028	MR	943883
028	EL	943884
028	ML	943885
032	ER	943886
032	MR	943887
032	EL	943888
032	ML	943889

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
A	01/02	00/AA/AC	943830
A	01/02	AB/AD	943834
B	03/04	00/AA/AC	943838
B	03/04	AB/AD	943839
C	01/02	00/AA/AC	943832
C	01/02	AB/AD	943836
C	03/04	00/AA/AC	943840
C	03/04	AB/AD	943840
C	05	00/AA/AC	997244
C	05	AB/AD	–
D	01/02	00/AA/AC	–
D	01/02	AB/AD	–
D	03/04	00/AA/AC	943841
D	03/04	AB/AD	–
D	05	00/AA/AC	–
D	05	AB/AD	–

Table 5 – Housing and Port Plugs

MODEL CODE POSITION		(21)	(22)
13, 14	15, 16		
02	AE/AF	943846	115050-022
01	AE/AF	943846	115050-022
04	–	943847	115050-022
03	–	943847	115050-022
05	–	943847	115050-022

Table 6 – End Cover (Non Thru Drive)

MODEL CODE POSITION 8	12, 13, 14	(23)
R	S01	943863
R	S02	943851
L	S01	943869
L	S02	943857
R	S03	943864
R	S04	937852
L	S03	943870
L	S04	943858
R	E01	943861
R	E02	943849
L	E01	943867
L	E02	943855
R	E03	943862
R	E04	943850
L	E03	943868
L	E04	943856
R	S05	943874
R	E05	943873
L	S05	943877
L	E05	943876
R	E07	996927

Table 7 – End Cover (Thru Drive)

MODEL CODE POSITION 8	13, 14	25	(23)
R	01	A/B	943865
R	02	A/B	943853
R	03	A/B	943866
R	04	A/B	943854
R	05	A/B	943875
R	03	G/H	997232
R	04	G/H	997234
R	05	G/H	–
L	01	A/B	943871
L	02	A/B	943859
L	03	A/B	943872
L	04	A/B	943860
L	05	A/B	943878
L	03	G/H	997235
L	04	G/H	997237
L	05	G/H	–

Table 8 – Coupling (Thru Drive)

MODEL CODE POSITION 25	REF	(73)
A	A9	937454
B	A11	937453
C	B13	–
D	B15	–
G	MA9	937454
H	MA11	937453
J	MB13	–

Torque Values

ITEM	TORQUE VALUES
2	7,4-9 Nm (65-80 in-lb)
22	95-108 Nm (70-80 ft-lb)
26	23-25,8 Nm (17-19 ft-lb)
27	63-77 Nm (46-57 ft-lb)
32	210-230 Nm (155-170 ft-lb)
35	18-24 Nm (13-18 ft-lb)

Identification of Model Code

Model PVM028
Model PVM032

PVM	028	E	R	07	A	S	01	AA	A	28	00	00	0	0	A	0	A
1 2 3	4 5 6	7	8	9 10	11	12	13 14	15 16	17	18 19	20 21	22 23	24	25	26	27	28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
028 28.0 cm^3/rev (1.71 in^3/rev) 280 bar
032 32.0 cm^3/rev (1.96 in^3/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
01 SAE J744-16-1 A straight key
02 SAE J744-19-1 19mm straight key
03 SAE J744-16-4 A 9T spline
04 SAE J744-16-4 A 11T spline
05 SAE J744-22-1 B straight key
06 SAE J744-25-1 B-B straight key
07 SAE J744-22-4 B 13T spline
08 SAE J744-25-4 B-B 15T spline

11 Mounting flange
A SAE J744-82-2 (SAE A 2 bolt)
C SAE J744-101-2 (SAE B 2 bolt)

12 Main port location
S Side
E End (na on thru drive)

13 14 Main port type
01 SAE J514 tube ports
02 SAE J518 flange ports
03 ISO 6149-1 tube ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 032 cm^3/rev
28 276-284 bar (4002-4118 psi) 028 cm^3/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

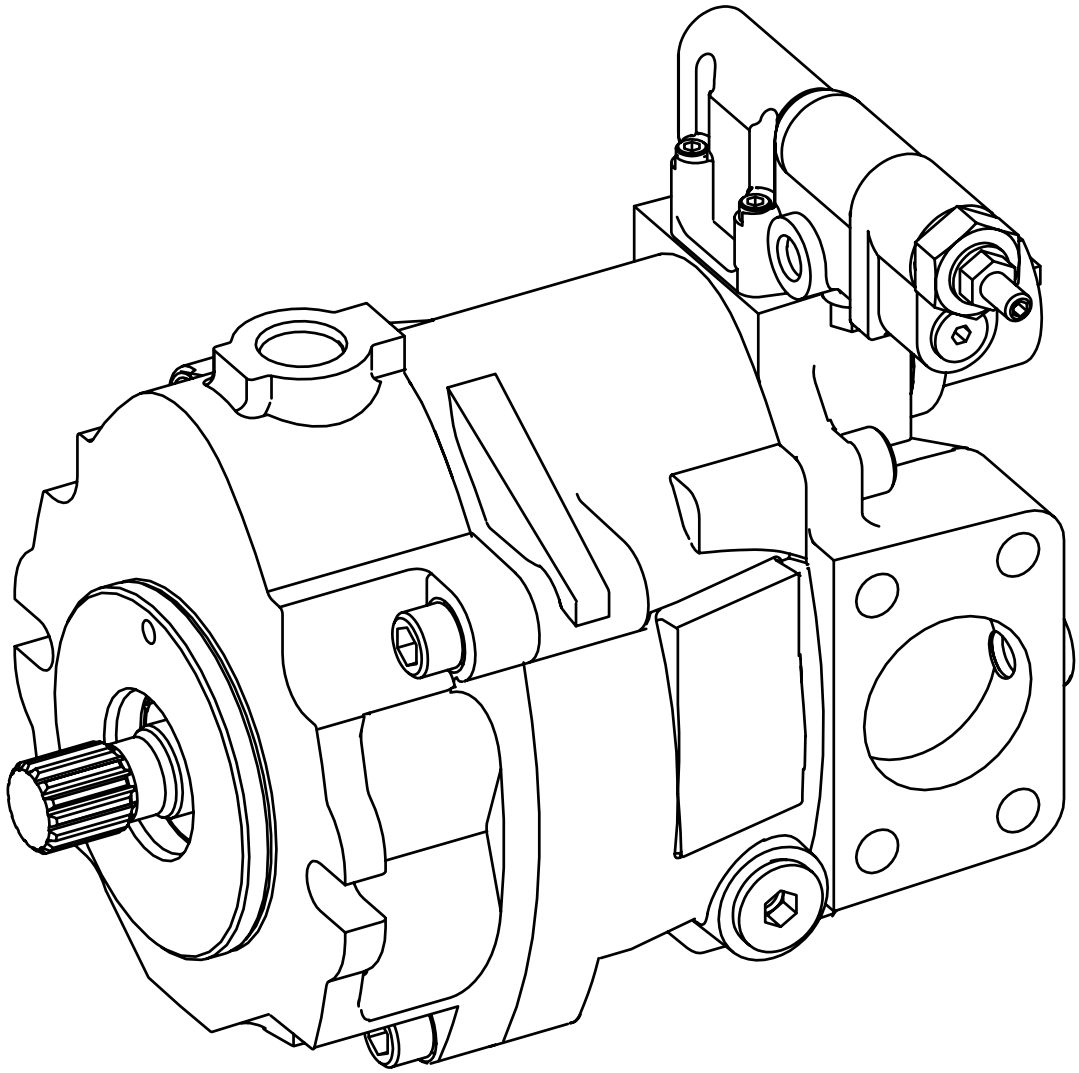
25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline

26 Paint
0 No paint
A Blue (standard)

27 Customer identification
0 None

28 Design code
A A (initial release)

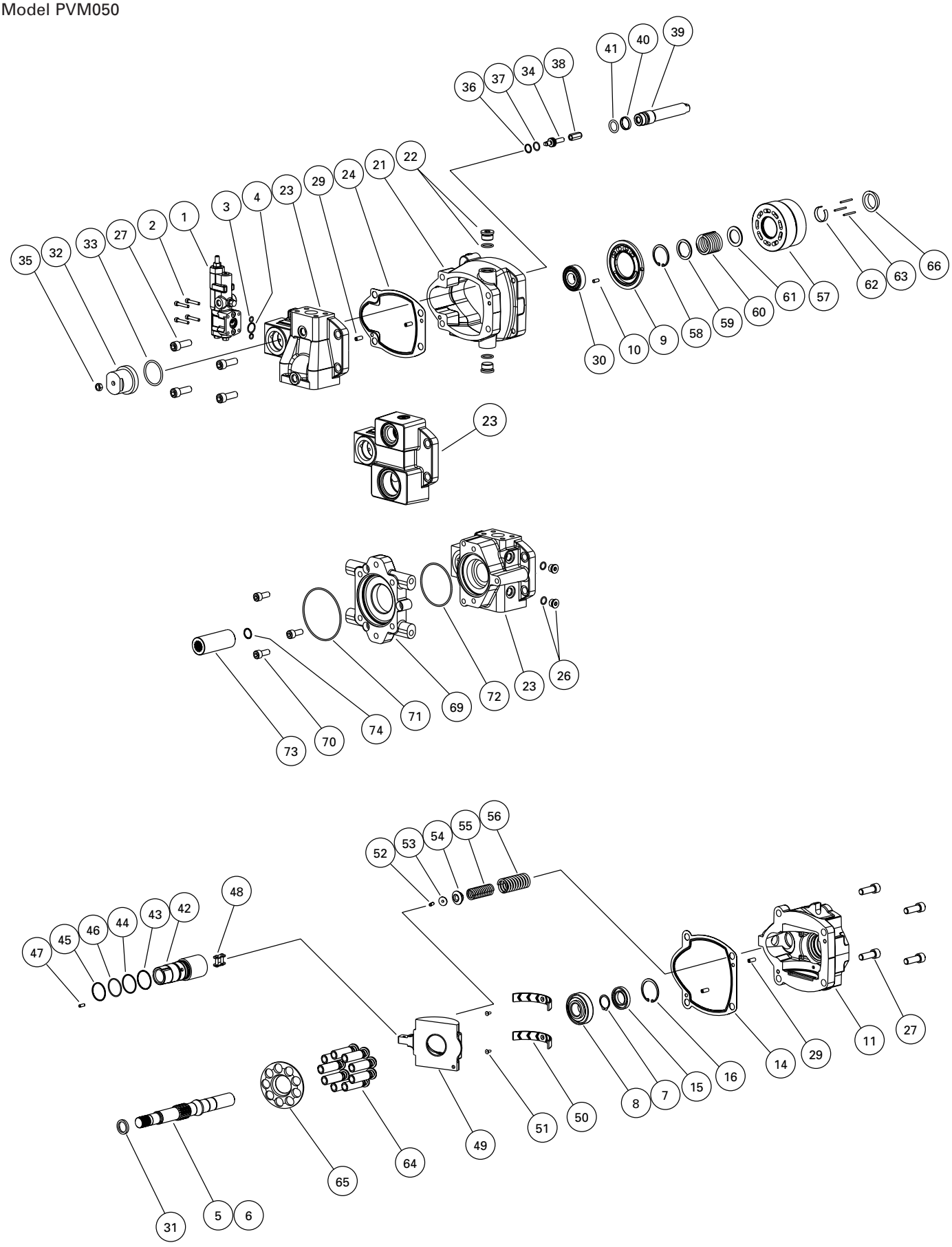
Model PVM045
Model PVM050



Identification of Parts

Model PVM045

Model PVM050



Parts List

Model PVM045

Model PVM050

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114953-030	4	A G	Soc HD Cap Screw M5
3	104166-011	2	A B G	O-Ring
4	104166-017	1	A B G	O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	See Table 2	1		Retaining Ring
8	419627	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	114997-004	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	Not Used			Soc HD Cap Screw M5
13	Not Used			Soc HD Cap Screw M5
14	932915	1	B	Flange Gasket
15	626933	1	B F	Shaft Seal
16	101680-175	1	B F	Retaining Ring
17	Not Used			Seal Collar
18	Not Used			Retaining Ring
19	Not Used			O-Ring
20	Not Used			Filter
21	See Table 5	1		Housing
22	See Table 5	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	932916	1	B	Gasket
25	Not Used			O-Ring Plug S/A
26	See Tables 6&7	2		O-Ring Plug S/A
27	114977-035	8		Soc HD Cap Screw
28	Not Used			Soc HD Cap Screw
29	96201-062	4		Roll Pin
30	473914	1	E	Bearing S/A
31	4992184-xxx	A/R	J	Spacer
32	934286	1		Control Cap
33	115016-224	1	B	O-Ring
34	934287	1		Adjustment Screw
35	4992732-001	1		Jam Nut
36	8770-015	1	B	Back-Up Ring
37	104166-015	1	B	O-Ring
38	934340	1		Hex Stop
39	932919	1		Control Piston
40	932924	1	B	Glide Ring
41	104166-210	1	B	O-Ring
42	932920	1		Sleeve
43	114998-028	1	B	Back-Up Ring
44	104166-028	1	B	O-Ring
45	114998-027	1	B	Back-Up Ring
46	104166-027	1	B	O-Ring
47	95902-050	1		Pin
48	932921	1	M	Chain Link
49	932918	1		Swashplate
50	937055	2	D	Cradle Bearing
51	114995-010	2	D	Screw Socket Flat Head
52	16026-608	1	D	Pin
53	409998	1	D	Button
54	934189	1	D	Spring Seat
55	932928	1		Inner Bias Spring
56	932929	1		Outer Bias Spring
57	933028	1	C K	Cylinder Barrel (045)
57	932930	1	C L	Cylinder Barrel (050)
58	101680-162	1	C	Retaining Ring
59	423368	1	C	Spring Guide, Outer
60	402579	1	C	Spring
61	404932	1	C	Spring Guide, Inner
62	410050	1	C	Pin Retainer
63	114996-006	3	C	Pin
64	415621	9	C K	Piston Shoe S/A (045)
64	02-328123	9	C L	Piston Shoe S/A (050)
65	402650	1	C	Shoe Retainer
66	402580	1	C	Ballguide
67	Not Used			Spacer
68	Not Used			Screw
69	See Table 7	1		Adapter
70	114976-025	3		Screw
71	104166-155	1	B	O-Ring, Adapter
72	104166-152	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	See Table 8	1		Retaining Ring

A Available in control kit. See Table 1.
B Available in seal kit 02-346161.
C Available in rotating group kit 02-346162 for PVM045 or rotating group kit 02-346172 for PVM050.
D Available in yoke and saddle bearing kit 02-346163.
E Available in shaft bearing kit 02-346164.
F Available in single shaft seal kit 02-346166. Equivalent double shaft seal kit 02-346167.
G Available in control mounting kit 9900104-000.
H Seat bearing cone against shoulder.
J Use spacers to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.
K For PVM045 only.
L For PVM050 only.
M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

	MODEL CODE POSITION		(1)
	13, 14	17, 18, 19, 20, 21	
	All	A2800	02-345631
	All	A0700	02-345629
SAE Port	01/02	B2811	02-345594
	01/02	C2811	02-345596
	01/02	B2824	02-345598
	01/02	C2824	02-345600
	01/02	B0711	02-345601
	01/02	C0711	02-345602
	01/02	B0724	02-345603
	01/02	C0724	02-345604
Metric Port	03/04	B2811	02-345606
	03/04	C2811	02-345608
	03/04	B2824	02-345610
	03/04	C2824	02-345612
	03/04	B0711	02-345613
	03/04	C0711	02-345614
	03/04	B0724	02-345615
	03/04	C0724	02-345616
BSPP Port	05	B2811	02-345618
	05	C2811	02-345620
	05	B2824	02-345622
	05	C2824	02-345624
	05	B0711	02-345625
	05	C0711	02-345626
	05	B0724	02-345627
	05	C0724	02-345628

Table 2 – Shaft, Key and Retaining Ring

MODEL CODE POSITION			(5)	(6)	(7)
9,10	11	25			
05	C	0	934380	22971	–
06	C	0	934381	58303	96098-100
07	C	0	934382	–	–
08	C	0	932927	–	–
05	C	A/B/G/H	934391	22971	–
06	C	A/B/G/H	934392	58303	96098-100
07	C	A/B/G/H	934393	–	–
08	C	A/B/G/H	934394	–	–

Table 3 – Industrial Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
045	ER	932922
045	MR	932925
045	EL	934275
045	ML	934276
050	ER	934280
050	MR	933027
050	EL	934278
050	ML	934277

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
C	01/02	00/AA/AC	932914
C	01/02	AB/AD	934397
C	03/04	00/AA/AC	943776
C	03/04	AB/AD	943775
C	05	00/AA/AC	934399
C	05	AB/AD	934400
D	01/02	00/AA/AC	943821
D	01/02	AB/AD	943822
D	03/04	00/AA/AC	943274
D	03/04	AB/AD	934398
D	05	00/AA/AC	943773
D	05	AB/AD	943774

Table 5 – Housing and Drain Plug S/A

MODEL CODE POSITION	(21)	(22)
13, 14		
02	932912	–
01	932912	–
04	934273	–
03	934273	–
05	934401	49929447-001

Table 6 – End Cover (Non Thru Drive) and Gauge Port Plug

MODEL CODE POSITION		(23)	(26)
8	12, 13, 14		
R	S01	934254	115046-006
R	S02	932909	115046-006
L	S01	934257	115046-006
L	S02	934261	115046-006
R	S03	934255	115050-022
R	S04	934259	115050-022
L	S03	934258	115050-022
L	S04	934262	115050-022
R	E01	934355	115046-006
R	E02	934264	115046-006
L	E01	934367	115046-006
L	E02	934267	115046-006
R	E03	934357	115050-022
R	E04	934263	115050-022
L	E03	934369	115050-022
L	E04	934268	115050-022
R	S05	934360	4992947-002
R	E05	934361	4992947-002
L	S05	934373	4992947-002
L	E05	934374	4992947-002

Table 7 – End Cover (Thru Drive), Gauge Port Plug and Adapter

MODEL CODE POSITION			(23)	(26)	(69)
8	13, 14	25			
R	01	A/B	934301	115046-006	–
R	02	A/B	934238	115046-006	–
R	03	A/B	934359	115050-022	–
R	04	A/B	934269	115050-022	–
R	05	A/B	934363	4992947-002	–
R	03	G/H	934365	115050-022	–
R	04	G/H	934364	115050-022	–
R	05	G/H	934366	4992947-002	–
R	01	C/D	934301	115046-006	934294
R	02	C/D	934238	115046-006	934294
R	03	C/D	934359	115050-022	934294
R	04	C/D	934269	115050-022	934294
R	05	C/D	934363	4992947-002	934294
R	03	J/K	934365	115050-022	934402
R	04	J/K	934364	115050-022	934402
R	05	J/K	934366	4992947-002	934402
L	01	A/B	934370	115046-006	–
L	02	A/B	934271	115046-006	–
L	03	A/B	934372	115050-022	–
L	04	A/B	934272	115050-022	–
L	05	A/B	934375	4992947-002	–
L	03	G/H	934377	115050-022	–
L	04	G/H	934376	115050-022	–
L	05	G/H	934378	4992947-002	–
L	01	C/D	934370	115046-006	934294
L	02	C/D	934271	115046-006	934294
L	03	C/D	934372	115050-022	934294
L	04	C/D	934272	115050-022	934294
L	05	C/D	934375	4992947-002	934294
L	03	J/K	934377	115050-022	934402
L	04	J/K	934376	115050-022	934402
L	05	J/K	934378	4992947-002	934402

Table 8 – Coupling (Thru Drive) and Retaining Ring

MODEL CODE POSITION		(73)	(74)
25	REF		
A	A9	937238	–
B	A11	937236	–
C	B13	937237	115015-078
D	B15	943792	115015-078
G	MA9	937238	–
H	MA11	937236	–
J	MB13	937237	115015-078
K	MB15	943792	115015-078

Torque Values

ITEM	TORQUE VALUES
2	7,4-9 Nm (65-80 in-lb)
22	95-108 Nm (70-80 ft-lb)
26	23-25,8 Nm (17-19 ft-lb)
27	63-77 Nm (46-57 ft-lb)
32	210-230 Nm (155-170 ft-lb)
35	18-24 Nm (13-18 ft-lb)
51	3,6-4,4 Nm (32-39 in-lb)
70	42-50 Nm (31-36,8 ft-lb)

Identification of Model Code

Model PVM045
Model PVM050

PVM	045	E	R	06	C	S	01	AA	A	28	00	00	0	0	A	0	A
1 2 3	4 5 6	7	8	9 10	11	12	13 14	15 16	17	18 19	20 21	22 23	24	25	26	27	28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
045 45.1 cm^3/rev (2.75 in^3/rev) 280 bar
050 50.0 cm^3/rev (3.00 in^3/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
05 SAE J744-22-1 B straight key
06 SAE J744-25-1 B-B straight key
07 SAE J744-22-4 B 13T spline
08 SAE J744-25-4 B-B 15T spline

11 Mounting flange
C SAE J744-101-2 (SAE B 2 bolt)

12 Main port location
S Side
E End (na on thru drive)

13 14 Main port type
01 SAE J514 tube ports
02 SAE J518 flange ports
03 ISO 6149-1 tube ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 050 cm^3/rev
28 276-284 bar (4002-4118 psi) 045 cm^3/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

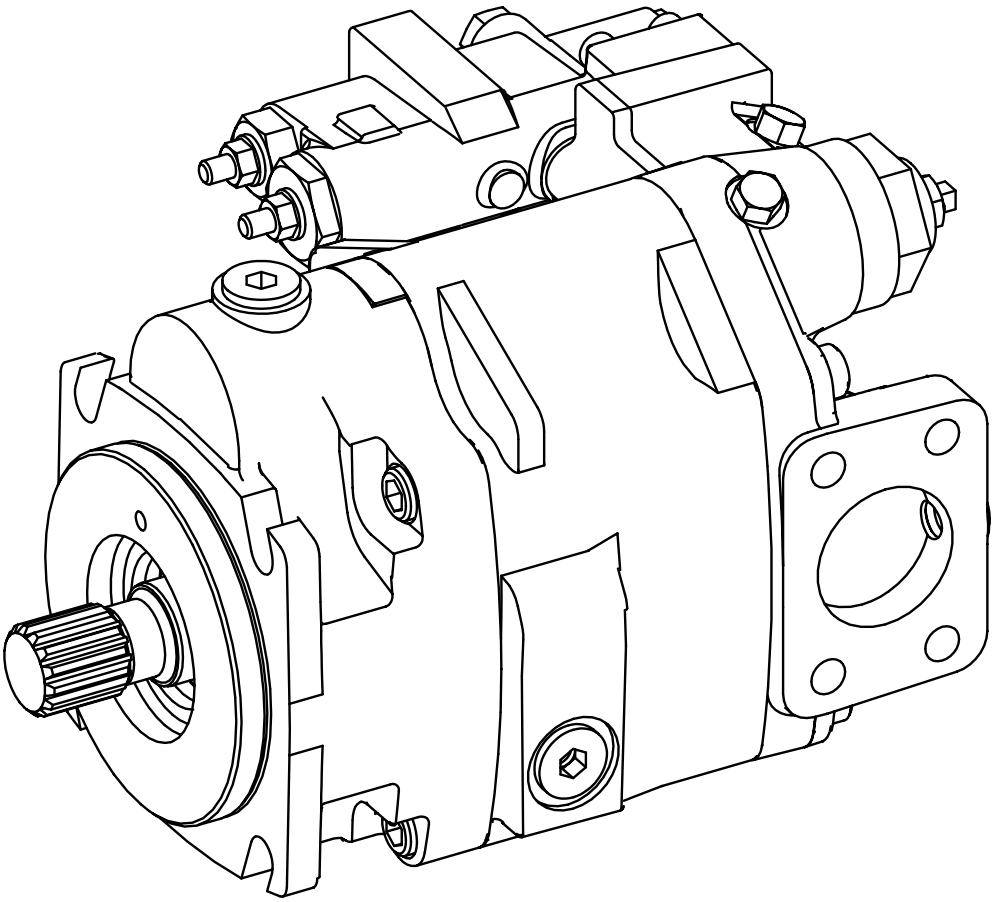
25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline
C SAE B 2/4 bolt 13T spline
D SAE B 2/4 bolt 15T spline

26 Paint
0 No paint
A Blue (standard)

27 Customer identification
0 None

28 Design code
A A (initial release)

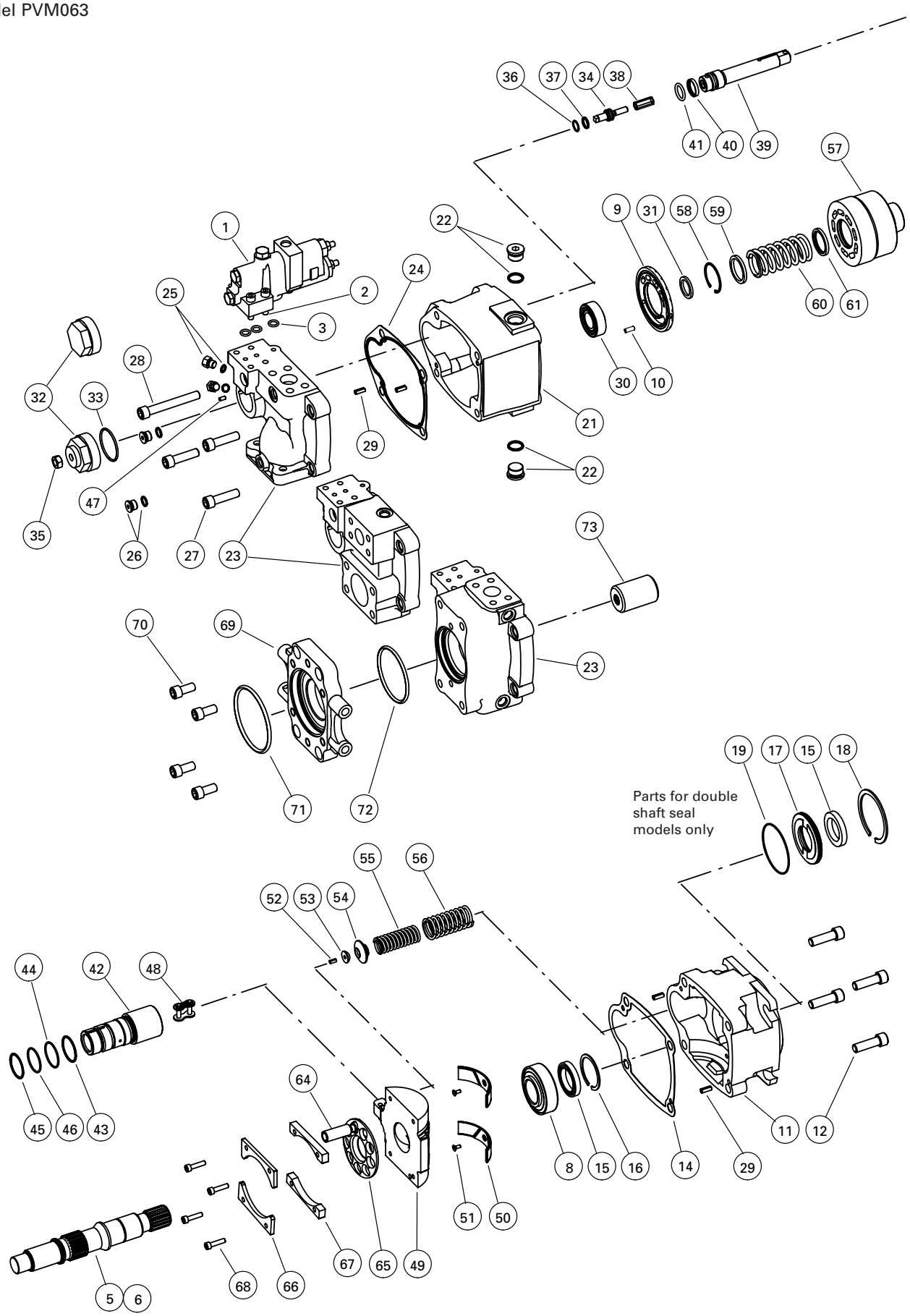
Model PVM057
Model PVM063



Identification of Parts

Model PVM057

Model PVM063



Parts List

Model PVM057

Model PVM063

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114975-035	4	A G	Soc HD Cap Screw M5
3	4992737-111	3	A B G	O-Ring
4	Not Used			O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	Not Used			Retaining Ring
8	02-334757	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	95904-068	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	114977-040	4		Soc HD Cap Screw M5
13	Not Used			Soc HD Cap Screw M5
14	934445	1	B	Flange Gasket
15	513439	1	B F	Shaft Seal
16	101680-200	1	B F	Retaining Ring
17	934058			Seal Collar
18	101680-300			Retaining Ring
19	104166-040			O-Ring
20	Not Used			Filter
21	See Table 5	1		Housing
22	See Table 5	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	934444	1	B	Gasket
25	16103-104	2		O-Ring Plug S/A
26	115046-006	2		O-Ring Plug S/A
27	114977-045	3		Soc HD Cap Screw
28	114977-090	1		Soc HD Cap Screw
29	96201-062	4		Roll Pin
30	02-328741	1	E	Bearing S/A
31	4992188-xxx	A/R	J	Spacer
32	943930	1		Control Cap
33	934580	1	B	O-Ring
34	943985	1		Adjustment Screw
35	4992732-002	1		Jam Nut
36	8770-015	1	B	Back-Up Ring
37	104166-015	1	B	O-Ring
38	937407	1		Hex Stop
39	934052	1		Control Piston
40	934489	1	B	Glide Ring
41	104166-211	1	B	O-Ring
42	934053	1		Sleeve
43	115000-127	1	B	Back-Up Ring
44	104166-127	1	B	O-Ring
45	115000-126	1	B	Back-Up Ring
46	104166-126	1	B	O-Ring

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
47	16028-303	1		Pin
48	934493	1	M	Chain Link
49	934086	1		Swashplate
50	943984	2	D	Cradle Bearing
51	114995-010	2	D	Screw Socket Flat Head
52	95749-038	1	D	Pin
53	409998	1	D	Button
54	934429	1	D	Spring Seat
55	937489	1		Inner Bias Spring
56	937488	1		Outer Bias Spring
57	934405	1	C K	Cylinder Barrel (057)
57	934553	1	C L	Cylinder Barrel (063)
58	101680-175	1	C	Retaining Ring
59	584524	1	C	Spring Guide, Outer
60	627524	1	C	Spring
61	680624	1	C	Spring Guide, Inner
62	Not Used			Pin Retainer
63	Not Used			Pin
64	02-306362	9	C K	Piston Shoe S/A (057)
64	02-306363	9	C L	Piston Shoe S/A (063)
65	584512	1	C K	Shoe Retainer (057)
65	860754	1	C L	Shoe Retainer (063)
66	690218	2	C	Hold Down Straps
67	690801	2	C	Spacer
68	114974-025	4	C	Screw
69	See Table 7	1		Adapter
70	114977-025	3		Screw
71	See Table 7	1	B	O-Ring, Adapter
72	See Table 7	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	Not Used			Retaining Ring

A Available in control kit. See Table 1.

B Available in seal kit 02-346217.

C Available in rotating group kit 02-346216 for PVM057 or rotating group kit 02-346224 for PVM063.

D Available in yoke and saddle bearing kit 02-346219.

E Available in shaft bearing kit 02-346220.

F Available in single shaft seal kit 02-346222. Equivalent double shaft seal kit 02-346223.

G Available in control mounting kit 9900105-000.

H Seat bearing cone against shoulder.

J Use spacers to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.

K For PVM057 only.

L For PVM063 only.

M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

MODEL CODE POSITION			(1)
13, 14	17, 18, 19	20, 21	
All	A28	00	02-125160
All	A07	00	02-125162
01/02	B28	11	02-346306
01/02	B28	24	02-160591
01/02	C07	24	02-306056
01/02	C28	11	02-346305
01/02	C28	24	02-125161
03/04	B07	11	02-347729
03/04	B08	24	02-347728
03/04	B28	11	02-347730
03/04	B28	24	02-347727
03/04	C28	11	02-346307
03/04	C28	24	02-346308

Table 2 – Shaft and Key

MODEL CODE POSITION			(5)	(6)
9,10	11	25		
06	C	O	937011	4992727-003
07	C	O	934574	–
08	C	O	937009	–
09	E/G	O	937008	114516
11	E/G	O	934338	–
17	E/G	O	937044	4992727-003
18	E/G	O	937050	4992727-001
06	C	A to M	937382	–
07	C	A to M	937383	–
08	C	A to M	937384	–
09	E/G	A to M	937380	–
11	E/G	A to M	937051	–
17	E/H	A to M	939386	–
18	E/H	A to M	937385	–

Table 3 – Industrial Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
057	ER	943806
057	MR	943970
057	EL	943971
057	ML	943972
063	ER	943973
063	MR	943974
063	EL	943975
063	ML	943976

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
C	01/02	00/AA/AC	934159
C	01/02	AB/AD	937286
C	03/04	00/AA/AC	937323
C	03/04	AB/AD	937324
D	03/04	00/AA/AC	937287
D	03/04	AB/AD	937288
E	01/02	00/AA/AC	937278
E	01/02	AB/AD	937289
E	03/04	00/AA/AC	937325
E	03/04	AB/AD	937326
F	03/04	00/AA/AC	937290
F	03/04	AB/AD	937291
G	01/02	00/AA/AC	934087
G	01/02	AB/AD	934417
G	03/04	00/AA/AC	937327
G	03/04	AB/AD	937328
H	03/04	00/AA/AC	937001
H	03/04	AB/AD	937002

Table 5 – Housing

MODEL CODE POSITION	(21)	(22)
13, 14		
01	934090	115046-010
02	934090	115046-010
03	934599	115050-022
04	934599	115050-022

Table 6 – End Cover (Non Thru Drive)

MODEL CODE POSITION		(23)
8	12, 13, 14	
R	S02	934088
R	S04	937208
L	S02	937209
L	S04	937210
R	E01	937375
R	E02	937211
R	E03	937376
R	E04	937248
L	E01	937377
L	E02	934236
L	E03	937144
L	E04	937213

Table 7 – End Cover (Thru Drive), Adapter and O-Rings

MODEL CODE POSITION			(23)	(69)	(71)	(72)
8	13, 14	25				
R	02	A/B	934251	–	–	576601
R	02	C/D	934251	934296	401525	576601
R	02	E/F	934251	934298	353264	576601
R	04	A/B	937257	–	–	576601
R	04	C/D	937257	934567	401525	576601
R	04	E/F	937257	934569	353264	576601
R	04	G/H	937378	–	–	943809
R	04	J/K	937257	934568	401525	943809
R	04	L/M	937257	934570	353264	943809
L	02	A/B	937258	–	–	576601
L	02	C/D	937258	934296	401525	576601
L	02	E/F	937258	934298	353264	576601
L	04	A/B	937259	–	–	576601
L	04	C/D	937259	934567	401525	576601
L	04	E/F	937259	934569	353264	576601
L	04	G/H	937379	–	–	943809
L	04	J/K	937259	934568	401525	943809
L	04	L/M	937259	934570	353264	943809

Table 8 – Coupling

MODEL CODE POSITION		(73)
25	REF	
A	A9	526682
B	A11	998637
C	B13	526694
D	B15	526695
E	C14	526696
G	MA11	998637
J	MB15	526695
L	MC14	526696

Torque Values

ITEM	TORQUE VALUES
2	31-37 Nm (23-27.4 ft-lb)
12	103-127 Nm (76.2-94 ft-lb)
22	75-83 Nm (55.5-61.4 ft-lb)
25	15-16 Nm (11.1-11.8 ft-lb)
26	29-32 Nm (21.5-23.7 ft-lb)
27	103-127 Nm (76.2-94 ft-lb)
28	103-127 Nm (76.2-94 ft-lb)
32	260-300 Nm (192.4-222 ft-lb)
35	18-24 Nm (13.3-17.8 ft-lb)
51	3,6-4.4 Nm (2.7-3.3 ft-lb)
68	12,9-14,9 Nm (9.6-11 ft-lb)
70	103-127 Nm (76.2-94 ft-lb)

Identification of Model Code

Model PVM057
Model PVM063

PVM 057 E R 09 E S 02 AA A 28 00 00 0 0 A 0 A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
057 57.4 cm³/rev (3.50 in³/rev) 280 bar
063 63.1 cm³/rev (3.85 in³/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
05 SAE J744-22-1 B straight key
06 SAE J744-25-1 B-B straight key
07 SAE J744-22-4 B 13T spline
08 SAE J744-25-4 B-B 15T spline
09 SAE J744-32-1 C straight key
10 SAE J744-38-1 C-C straight key
11 SAE J744-32-4 C 14T spline
12 SAE J744-38-4 C-C 17T spline

11 Mounting flange
C SAE J744-101-2 (SAE B 2 bolt)
E SAE J744-127-2 (SAE C 2 bolt)
G SAE J744-127-4 (SAE C 4 bolt)

12 Main port location
E End (na on thru drive)
S Side

13 14 Main port type
01 SAE J514 tube ports
02 SAE J518 flange ports
03 ISO 6149-1 tube ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 063 cm³/rev
28 276-284 bar (4002-4118 psi) 057 cm³/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

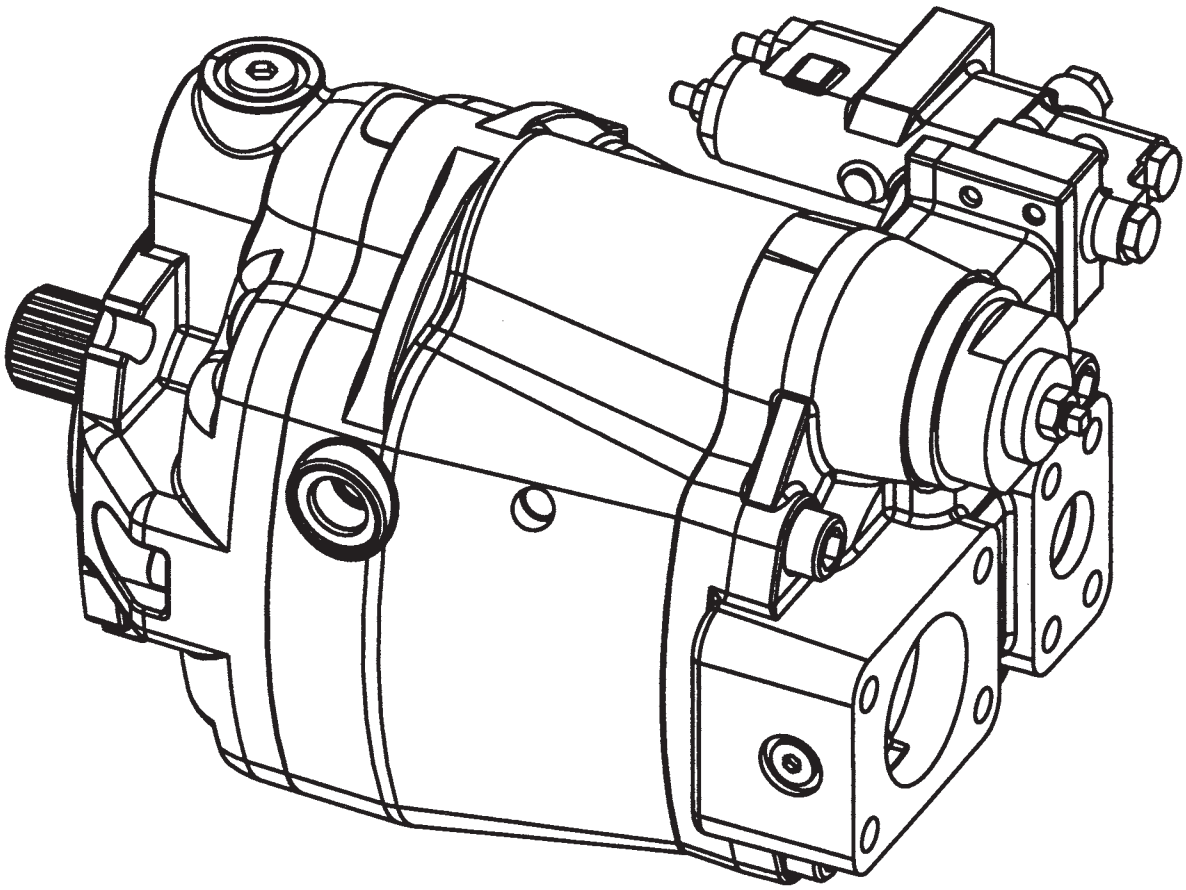
25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline
C SAE B 2/4 bolt 13T spline
D SAE B-B 2/4 bolt 15T spline
E SAE C 2/4 bolt 14T spline

26 Paint
0 No paint
A Blue

27 Customer identification
0 None

28 Design code
A A (initial release)

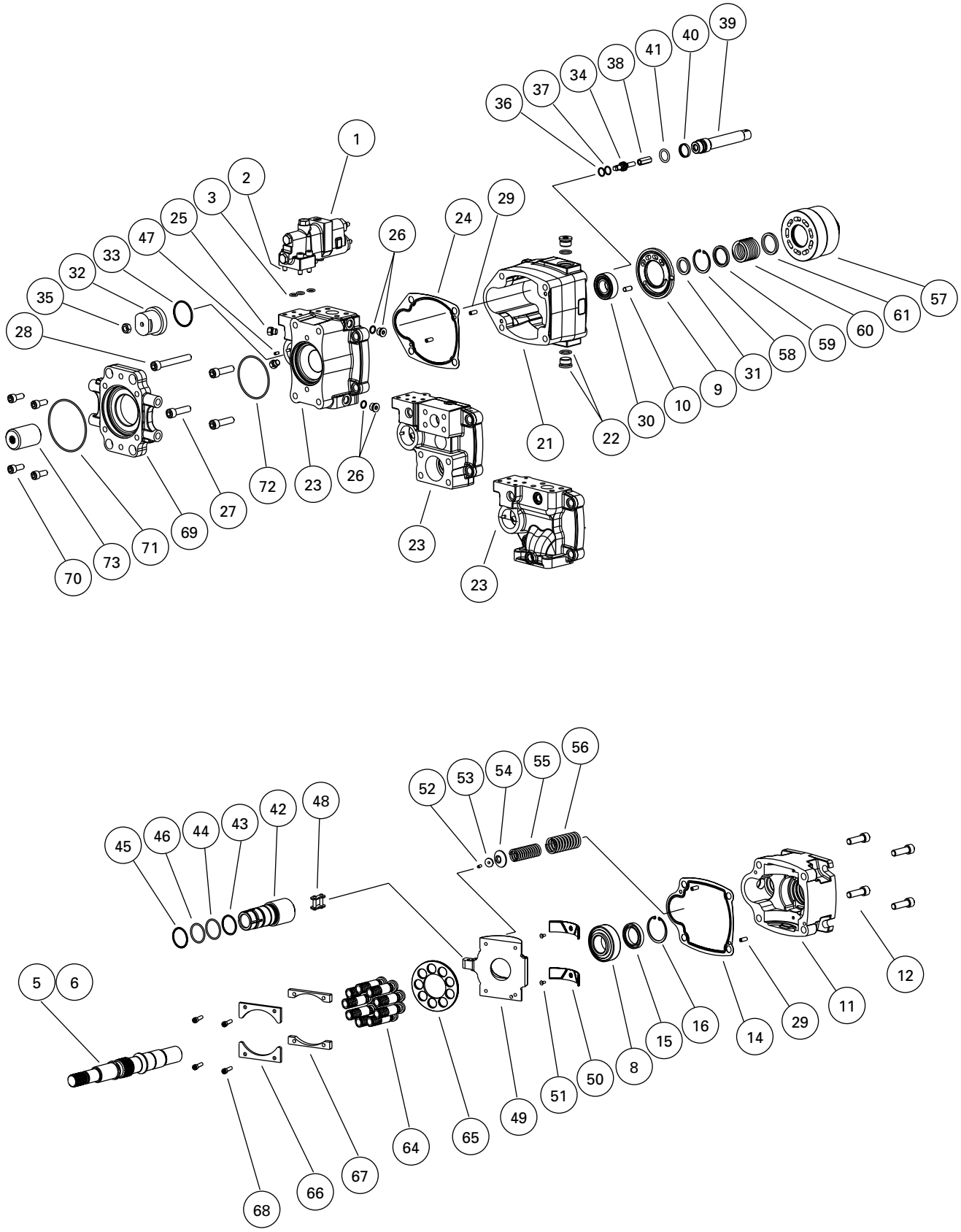
Model PVM074
Model PVM081



Identification of Parts

Model PVM074

Model PVM081



Parts List

Model PVM074

Model PVM081

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114975-035	4	A G	Soc HD Cap Screw M5
3	4992737-111	3	A B G	O-Ring
4	Not Used	1		O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	Not Used			Retaining Ring
8	02-334431	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	95904-068	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	114977-040	6		Soc HD Cap Screw M5
13	Not Used			Soc HD Cap Screw M5
14	943362	1	B	Flange Gasket
15	943427	1	B F	Shaft Seal
16	101680-225	1	B F	Retaining Ring
17	Not Used			Seal Collar
18	Not Used			Retaining Ring
19	Not Used			O-Ring
20	Not Used			Filter
21	See Table 5	1		Housing
22	115046-010	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	943361	1	B	Gasket
25	115046-002	8		O-Ring Plug S/A
26	115046-006	3		O-Ring Plug S/A
27	114978-060	4		Soc HD Cap Screw
28	Not Used	1		Soc HD Cap Screw
29	96201-062	4		Roll Pin
30	02-334424	1	E	Bearing S/A
31	4992186-xxx	A/R	J	Spacer
32	943375	1		Control Cap
33	4992737-138	1	B	O-Ring
34	943380	1		Adjustment Screw
35	4992732-002	1		Jam Nut
36	8770-015	1	B	Back-Up Ring
37	104166-015	1	B	O-Ring
38	943381	1		Hex Stop
39	943364	1		Control Piston
40	943367	1	B	Glide Ring
41	104166-118	1	B	O-Ring
42	943363	1		Sleeve
43	115000-131	1	B	Back-Up Ring
44	104166-131	1	B	O-Ring
45	115000-129	1	B	Back-Up Ring
46	104166-129	1	B	O-Ring

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
47	95902-050	1		Pin
48	943252	1	M	Chain Link
49	943356	1		Swashplate
50	943378	2	D	Cradle Bearing
51	114995-010	2	D	Screw Socket Flat Head
52	96201-062	1	D	Pin
53	933071	1	D	Button
54	943411	1	D	Spring Seat
55	Not Used			Inner Bias Spring
56	943366	1		Outer Bias Spring
57	943351	1	C K	Cylinder Barrel (074)
57	943376	1	C L	Cylinder Barrel (081)
58	101680-193	1	C	Retaining Ring
59	631568	1	C	Spring Guide, Outer
60	584454	1	C	Spring
61	584483	1	C	Spring Guide, Inner
62	Not Used			Pin Retainer
63	Not Used			Pin
64	02-305857	9	C K	Piston Shoe S/A (074)
64	02-306364	9	C L	Piston Shoe S/A (081)
65	584474	1	C	Shoe Retainer
66	690796	2	C	Hold Down Straps
67	526639	2	C	Spacer
68	114974-025	4	C	Screw
69	See Table 7	1		Adapter
70	473800	3		Screw
71	See Table 7	1	B	O-Ring, Adapter
72	See Table 7	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	Not Used			Retaining Ring

A Available in control kit. See Table 1.

B Available in seal kit 9900107-000.

C Available in rotating group kit 877421 for PVM074 or rotating group kit 314746 for PVM081.

D Available in yoke and saddle bearing kit 9900117-000.

E Available in shaft bearing kit 02-334431.

F Available in single shaft seal kit 02-334433. Equivalent double shaft seal kit 02-340717.

G Available in control mounting kit 9900105-000.

H Seat bearing cone against shoulder.

J Use to to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.

K For PVM074 only.

L For PVM081 only.

M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

MODEL CODE POSITION			(1)
13,14	17, 18, 19	20, 21	
All	A28	00	02-346262
All	A07	00	–
02	B28	11	02-346265
02	B28	24	02-346266
02	C07	24	–
02	C28	11	02-346263
02	C28	24	02-346264
04	B07	11	–
04	B07	24	–
04	B28	11	–
04	B28	24	–
04	C28	11	02-346267
04	C28	24	02-346268

Table 2 – Shaft and Key

MODEL CODE POSITION		(5)	(6)
9, 10	25		
09	0	943428	–
10	0	943429	–
11	0	943368	–
12	0	943430	–
18	0	943431	4992727-001
19	0	943432	–
09	A-M	943433	–
10	A-M	943434	–
11	A-M	943435	–
12	A-M	943436	–
18	A-M	943437	4992727-001
19	A-M	943438	–

Table 3 – Industrial Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
074	ER	943365
074	MR	943439
074	EL	943440
074	ML	943441
081	ER	943442
081	MR	943443
081	EL	943444
081	ML	943445

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
E	02	00/AA/AC	943396
E	02	AB/AD	943998
E	04	00/AA/AC	943400
E	04	AB/AD	943404
F	04	00/AA/AC	943401
F	04	AB/AD	943405
G	02	00/AA/AC	943352
G	02	AB/AD	943373
G	04	00/AA/AC	943402
G	04	AB/AD	943406
H	04	00/AA/AC	943403
H	04	AB/AD	943407

Table 5 – Housing

MODEL CODE POSITION	(21)
13, 14	
02	943354
04	943412

Table 6 – End Cover (Non Thru Drive)

MODEL CODE POSITION		(23)
8	12, 13, 14	
R	S02	943358
R	S04	943416
L	S02	943385
L	S04	943423
R	E02	943388
R	E04	943414
L	E02	943383
L	E04	943421

Table 7 – End Cover (Thru Drive), Adapter and O-Rings

MODEL CODE POSITION			(23)	(69)	(71)	(72)
8	13, 14	25				
R	02	A/B	943391	–	–	576601
R	02	C/D	943391	934296	401525	576601
R	02	E/F	943391	934298	353264	576601
R	04	A/B	943418	–	–	943809
R	04	C/D	943418	934567	401525	943809
R	04	E/F	943418	934298	353264	943809
R	04	G/H	943419	–	–	943809
R	04	J/K	943419	934568	943810	943809
R	04	L/M	943419	934570	943811	943809
L	02	A/B	943393	–	–	576601
L	02	C/D	943393	934296	401525	576601
L	02	E/F	943393	934298	353264	576601
L	04	A/B	943425	–	–	576601
L	04	C/D	943425	934296	401525	576601
L	04	E/F	943425	934569	353264	576601
L	04	G/H	943426	–	–	943809
L	04	J/K	943426	934296	943810	943809
L	04	L/M	943426	934570	943811	943809

Table 8 – Coupling

MODEL CODE POSITION		(73)
25	REF	
A	A9	864460
B	A11	913314
C	B13	864457
D	B15	864459
E	C14	864458
F	C17	864461

Torque Values

ITEM	TORQUE VALUES
2	31-37 Nm (23-27.4 ft-lb)
12	103-127 Nm (76.2-94 ft-lb)
22	75-83 Nm (55.5-61.4 ft-lb)
25	15-16 Nm (11.1-11.8 ft-lb)
26	29-32 Nm (21.5-23.7 ft-lb)
27	103-127 Nm (76.2-94 ft-lb)
32	260-300 Nm (192.4-222 ft-lb)
35	18-24 Nm (13.3-17.8 ft-lb)
51	3,6-4.4 Nm (2.7-3.3 ft-lb)
68	12,9-14,9 Nm (9.6-11 ft-lb)
70	103-127 Nm (76.2-94 ft-lb)

Identification of Model Code

Model PVM074
Model PVM081

PVM 074 E R 10 E S 02 AA A 28 00 00 0 0 A 0 A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
074 73.7cm³/rev (4.5 in³/rev) 280 bar
081 81.0cm³/rev (4.94 in³/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
09 SAE J744-32-1 C straight key
10 SAE J744-38-1 C-C straight key
11 SAE J744-32-1 C 14T spline
12 SAE J744-38-1 C-C 17T spline

11 Mounting flange
E SAE J744-127-2 (SAE C 2 bolt)
G SAE J744-127-4 (SAE C 4 bolt)

12 Main port location
E End (na on thru drive)
S Side

13 14 Main port type
02 SAE J518 flange ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 081 cm³/rev
28 276-284 bar (4002-4118 psi) 074 cm³/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

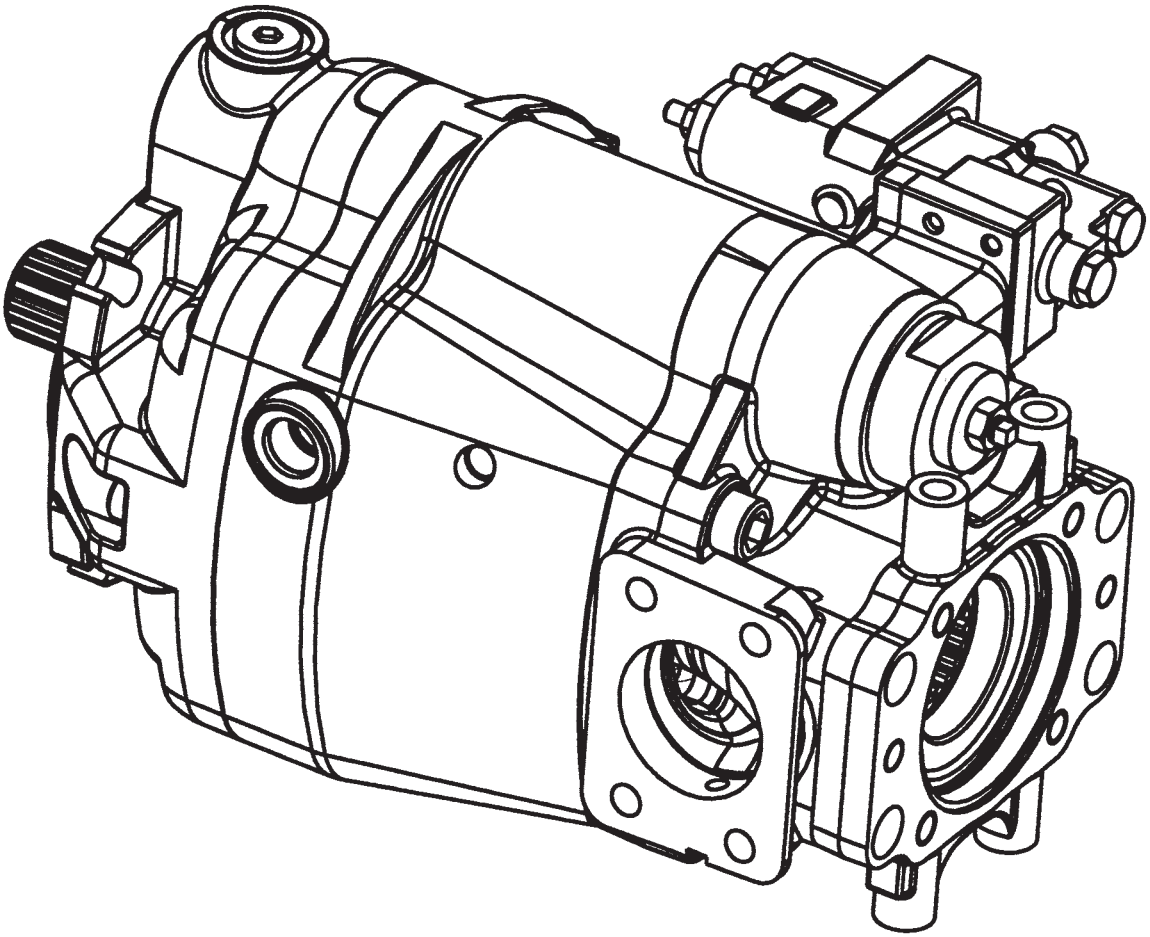
25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline
C SAE B 2/4 bolt 13T spline
D SAE B-B 2/4 bolt 15T spline
E SAE C 2/4 bolt 14T spline
F SAE C-C 2/4 bolt 17T spline

26 Paint
0 No paint
A Blue (standard)

27 Customer identification
0 None

28 Design code
A A (initial release)

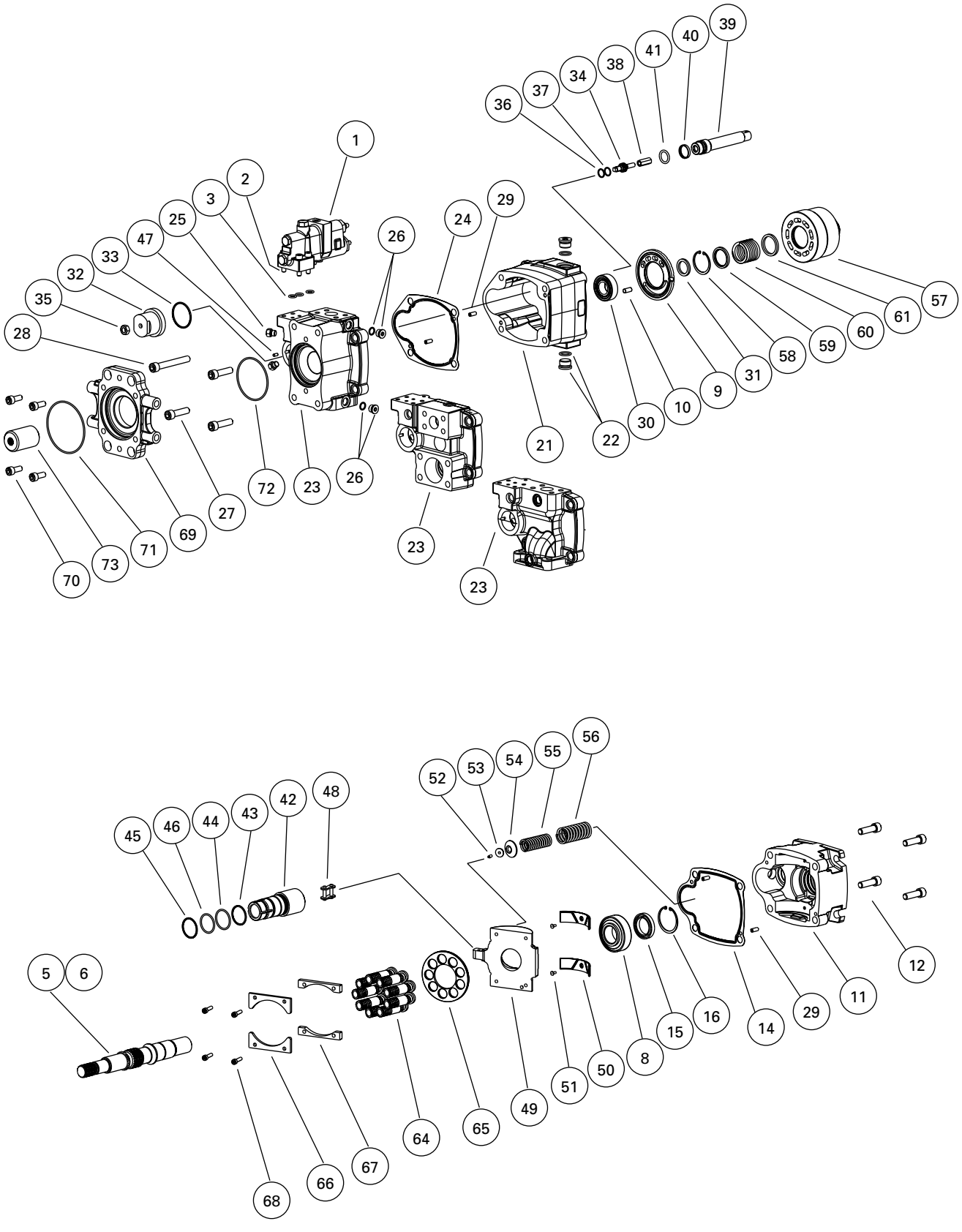
Model PVM098
Model PVM106



Identification of Parts

Model PVM098

Model PVM106



Parts List

Model PVM098

Model PVM106

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114975-035	4	A G	Soc HD Cap Screw M5
3	4992737-111	3	A B G	O-Ring
4	Not Used			O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	Not Used			Retaining Ring
8	02-334431	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	95904-068	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	114977-040	6		Soc HD Cap Screw M5
13	Not Used	1		Soc HD Cap Screw M5
14	943212	1	B	Flange Gasket
15	943427	1	B F	Shaft Seal
16	101680-225	1	B F	Retaining Ring
17	Not Used			Seal Collar
18	Not Used			Retaining Ring
19	Not Used			O-Ring
20	Not Used			Filter
21	See Table 5	1		Housing
22	115046-010	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	943211	1	B	Gasket
25	115046-002	7		O-Ring Plug S/A
26	115046-006	3		O-Ring Plug S/A
27	114978-060	3		Soc HD Cap Screw
28	114978-090	1		Soc HD Cap Screw
29	96201-062	4		Roll Pin
30	02-334432	1	E	Bearing S/A
31	4992185-xxx	A/R	J	Spacer
32	943222	1		Control Cap
33	4992737-138	1	B	O-Ring
34	943227	1		Adjustment Screw
35	4992732-002	1		Jam Nut
36	8770-015	1	B	Back-Up Ring
37	104166-015	1	B	O-Ring
38	943228	1		Hex Stop
39	943214	1		Control Piston
40	943367	1	B	Glide Ring
41	104166-118	1	B	O-Ring
42	943213	1		Sleeve
43	115000-131	1	B	Back-Up Ring
44	104166-131	1	B	O-Ring
45	115000-129	1	B	Back-Up Ring
46	104166-129	1	B	O-Ring

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
47	95902-050	1		Pin
48	943252	1	M	Chain Link
49	943206	1		Swashplate
50	943226	2	D	Cradle Bearing
51	114995-010	2	D	Screw Socket Flat Head
52	96201-062	1	D	Pin
53	933071	1	D	Button
54	943219	1	D	Spring Seat
55	Not Used			Inner Bias Spring
56	943216	1		Outer Bias Spring
57	943201	1	C K	Cylinder Barrel (098)
57	943223	1	C L	Cylinder Barrel (106)
58	101680-212	1	C	Retaining Ring
59	584547	1	C	Spring Guide, Outer
60	627192	1	C	Spring
61	584546	1	C	Spring Guide, Inner
62	Not Used			Pin Retainer
63	Not Used			Pin
64	02-152400	9	C K	Piston Shoe S/A (098)
64	02-306365	9	C L	Piston Shoe S/A (106)
65	584539	1	C	Shoe Retainer
66	513626	2	C	Hold Down Straps
67	513625	2	C	Spacer
68	114975-030	4	C	Screw
69	See Table 7	1		Adapter
70	473800	3		Screw
71	See Table 7	1	B	O-Ring, Adapter
72	See Table 7	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	Not Used	1		Retaining Ring

A Available in control kit. See Table 1.

B Available in seal kit 9900109-000.

C Available in rotating group kit 877422 for PVM098 or rotating group kit 159812 for PVM106.

D Available in yoke and saddle bearing kit 9900106-000.

E Available in shaft bearing kit 9900110-000.

F Available in single shaft seal kit 02-334433. Equivalent double shaft seal kit 02-340717.

G Available in control mounting kit 9900105-000.

H Seat bearing cone against shoulder.

J Use to to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.

K For PVM098 only.

L For PVM106 only.

M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

MODEL CODE POSITION			(1)
13,14	17, 18, 19	20, 21	
All	A28	00	02-346262
All	A07	00	–
02	B28	11	02-346265
02	B28	24	02-346266
02	C07	24	–
02	C28	11	02-346263
02	C28	24	02-346264
04	B07	11	–
04	B07	24	–
04	B28	11	–
04	B28	24	–
04	C28	11	02-346267
04	C28	24	02-346268

Table 2 – Shaft and Key

MODEL CODE POSITION		(5)	(6)
9, 10	25		
09	0	943305	–
10	0	943306	–
11	0	943218	–
12	0	943307	–
18	0	943308	4992727-001
19	0	943309	–
09	A-M	943310	–
10	A-M	943311	–
11	A-M	943312	–
12	A-M	943313	–
18	A-M	943314	4992727-001
19	A-M	943315	–

Table 3 – Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
098	ER	943316
098	MR	943219
098	EL	943317
098	ML	943318
106	ER	943342
106	MR	943343
106	EL	943344
106	ML	943345

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
E	02	00/AA/AC	943275
E	02	AB/AD	943341
E	04	00/AA/AC	943277
E	04	AB/AD	943281
F	04	00/AA/AC	943278
F	04	AB/AD	943282
G	02	00/AA/AC	943202
G	02	AB/AD	943220
G	04	00/AA/AC	943279
G	04	AB/AD	943283
H	04	00/AA/AC	943280
H	04	AB/AD	943284

Table 5 – Housing

MODEL CODE POSITION	(21)
13, 14	
02	943204
04	943289

Table 6 – End Cover (Non Thru Drive)

MODEL CODE POSITION		(23)
8	12, 13, 14	
R	S02	943208
R	S04	943293
L	S02	943235
L	S04	943300
R	E02	943238
R	E04	943291
L	E02	943241
L	E04	943298

Table 7 – End Cover (Thru Drive), Adapter and O-Rings

MODEL CODE POSITION			(23)	(69)	(71)	(72)
8	13, 14	25				
R	02	A/B	943246	–	–	576601
R	02	C/D	943246	934296	401525	576601
R	02	E/F	943246	934298	353264	576601
R	04	A/B	943295	–	–	943809
R	04	C/D	943295	934567	401525	943809
R	04	E/F	943295	934569	353264	943809
R	04	G/H	943296	–	–	943809
R	04	J/K	943296	934568	943810	943809
R	04	L/M	943296	934570	943811	943809
L	02	A/B	943246	–	–	576601
L	02	C/D	943246	934296	401525	576601
L	02	E/F	943246	934298	353264	576601
L	04	A/B	943302	–	–	576601
L	04	C/D	943302	934567	401525	576601
L	04	E/F	943302	934569	353264	576601
L	04	G/H	943303	–	–	943809
L	04	J/K	943303	934568	943810	943809
L	04	L/M	943303	934570	943811	943809

Table 8 – Coupling

MODEL CODE POSITION		(73)
25	REF	
A	A9	864460
B	A11	913314
C	B13	864457
D	B15	864459
E	C14	864458
F	C17	864461

Torque Values

ITEM	TORQUE VALUES
2	31-37 Nm (23-27.4 ft-lb)
12	103-127 Nm (76.2-94 ft-lb)
22	75-83 Nm (55.5-61.4 ft-lb)
25	15-16 Nm (11.1-11.8 ft-lb)
26	29-32 Nm (21.5-23.7 ft-lb)
27	103-127 Nm (76.2-94 ft-lb)
28	103-127 Nm (76.2-94 ft-lb)
32	260-300 Nm (192.4-222 ft-lb)
35	18-24 Nm (13.3-17.8 ft-lb)
51	3,6-4.4 Nm (2.7-3.3 ft-lb)
68	12,9-14,9 Nm (9.6-11 ft-lb)
70	103-127 Nm (76.2-94 ft-lb)

Identification of Model Code

Model PVM098
Model PVM106

PVM 098 E R 10 E S 02 AA A 28 00 00 0 0 A 0 A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
098 98.3cm³/rev (6.0 in³/rev) 280 bar
106 106.5cm³/rev (6.5 in³/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
09 SAE J744-32-1 C straight key
10 SAE J744-38-1 C-C straight key
11 SAE J744-32-1 C 14T spline
12 SAE J744-38-1 C-C 17T spline

11 Mounting flange
E SAE J744-127-2 (SAE C 2 bolt)
G SAE J744-127-4 (SAE C 4 bolt)

12 Main port location
E End (na on thru drive)
S Side

13 14 Main port type
02 SAE J518 flange ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 106 cm³/rev
28 276-284 bar (4002-4118 psi) 098 cm³/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

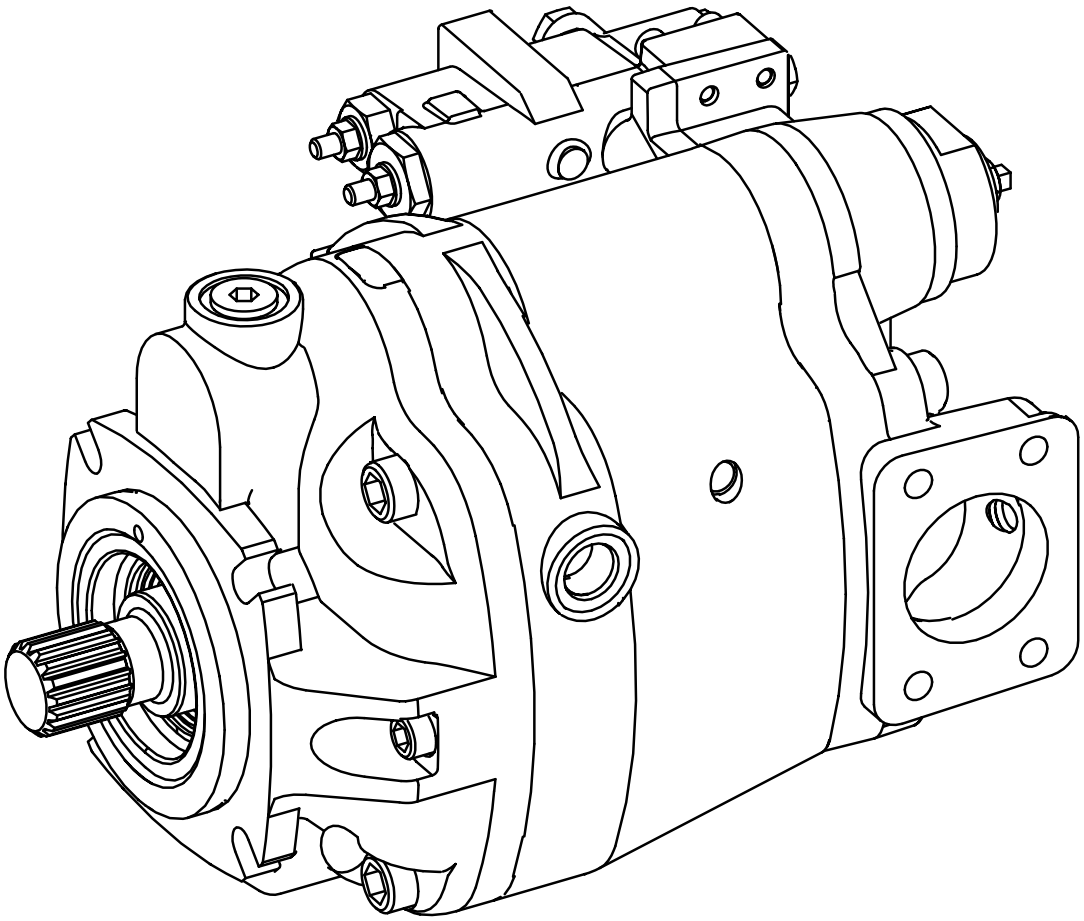
25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline
C SAE B 2/4 bolt 13T spline
D SAE B-B 2/4 bolt 15T spline
E SAE C 2/4 bolt 14T spline
F SAE C-C 2/4 bolt 17T spline

26 Paint
0 No paint
A Blue (standard)

27 Customer identification
0 None

28 Design code
A A (initial release)

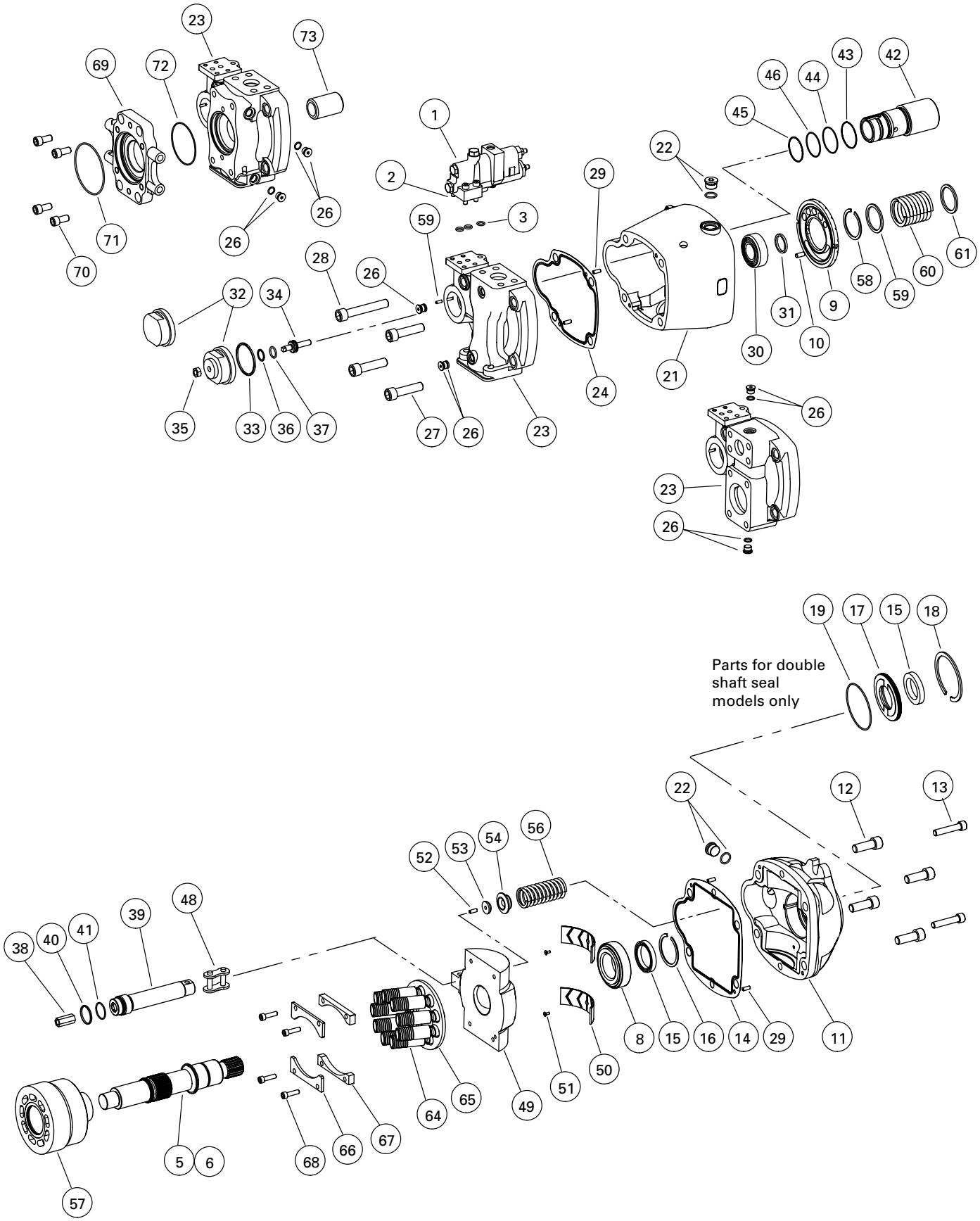
Model PVM131
Model PVM141



Identification of Parts

Model PVM131

Model PVM141



Parts List

Model PVM131

Model PVM141

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
1	See Table 1	1		Pressure Compensator
2	114975-035	4	A G	Soc HD Cap Screw M5
3	4992737-111	3	A B G	O-Ring
4	Not Used			O-Ring
5	See Table 2	1		Drive Shaft
6	See Table 2	1		Key
7	Not Used			Retaining Ring
8	388206	1	E H	Bearing S/A
9	See Table 3	1		Valve Plate
10	95904-068	1		Pin (Valve Plate)
11	See Table 4	1		Mounting Flange
12	114978-045	4		Soc HD Cap Screw M5
13	114977-060	2		Soc HD Cap Screw M5
14	933088	1	B	Flange Gasket
15	864200	1	B F	Shaft Seal
16	115019-250	1	B F	Retaining Ring
17	934403	1		Seal Collar
18	115018-350	1	B F	Retaining Ring
19	104166-152	1		O-Ring
20	882993			Filter
21	See Table 5	1		Housing
22	115046-010	2		O-Ring Plug S/A
23	See Tables 6&7	1		End Cover
24	933087	1	B	Gasket
25	Not Used			O-Ring Plug S/A
26	115046-006	2		O-Ring Plug S/A
27	114978-065	3		Soc HD Cap Screw
28	114978-100	1		Soc HD Cap Screw
29	96201-062	4		Roll Pin
30	02-328957	1	E	Bearing S/A
31	4992187-xxx	A/R	J	Spacer
32	934488	1		Control Cap
33	933080	1	B	O-Ring
34	934474	1		Adjustment Screw
35	4992732-002	1		Jam Nut
36	8770-116	1	B	Back-Up Ring
37	104166-116	1	B	O-Ring
38	934466	1		Hex Stop
39	933049	1		Control Piston
40	933078	1	B	Glide Ring
41	104166-123	1	B	O-Ring
42	933076	1		Sleeve
43	114998-033	1	B	Back-Up Ring
44	104166-033	1	B	O-Ring
45	114998-032	1	B	Back-Up Ring
46	104166-032	1	B	O-Ring

ITEM	PART NO.	QTY.	NOTE	DESCRIPTION
47	95902-050	1		Pin
48	934026	1	M	Chain Link
49	933089	1		Swashplate
50	933095	2	D	Cradle Bearing
51	114995-010	2	D	Screw Socket Flat Head
52	96201-062	1	D	Pin
53	933071	1	D	Button
54	933081	1	D	Spring Seat
55	Not Used			Inner Bias Spring
56	933079	1	C	Outer Bias Spring
57	933082	1	C K	Cylinder Barrel (131)
57	937030	1	C L	Cylinder Barrel (141)
58	101680-231	1	C	Retaining Ring
59	581104	1	C	Spring Guide, Outer
60	626111	1	C	Spring
61	417667	1	C	Spring Guide, Inner
62	Not Used			Pin Retainer
63	Not Used			Pin
64	02-159749	9	C K	Piston Shoe S/A (131)
64	02-306332	9	C L	Piston Shoe S/A (141)
65	683791	1	C K	Shoe Retainer (131)
65	928776	1	C L	Shoe Retainer (141)
66	526758	2	C	Hold Down Straps
67	526757	2	C	Spacer
68	114975-030	4	C	Screw
69	See Table 7	1		Adapter
70	473800	3		Screw
71	See Table 7	1	B	O-Ring, Adapter
72	See Table 7	1	B	O-Ring, End Cover
73	See Table 8	1		Coupling
74	Not Used			Retaining Ring

A Available in control kit, Table 1.

B Available in seal kit 02-346168.

C Available in rotating group kit 02-346169 for PVM131 or rotating group kit 02-322898 for PVM141.

D Available in yoke and saddle bearing kit 02-346170.

E Available in shaft bearing kit 02-346171.

F Available in single shaft seal kit 02-346173. Equivalent double shaft seal kit 02-346174.

G Available in control mounting kit 9900105-000.

H Seat bearing cone against shoulder.

J Use to to shim as required to obtain 0,01 to 0,10 mm (0.00039 to 0.0039 in.) axial shaft end play.

K For PVM131 only.

L For PVM141 only.

M Warning: Use Vickers authorized chain link only. Cotter pins on industry standard chain link will fail.

Parts Tables 1-8

Table 1 – Pressure Compensator

MODEL CODE POSITION			(1)
13,14	17, 18, 19	20, 21	
All	A28	00	02-346262
All	A07	00	–
02	B28	11	02-346265
02	B28	24	02-346266
02	C07	24	–
02	C28	11	02-346263
02	C28	24	02-346264
04	B07	11	–
04	B07	24	–
04	B28	11	–
04	B28	24	–
04	C28	11	02-346267
04	C28	24	02-346268

Table 2 – Drive Shaft and Key

MODEL CODE POSITION			(5)	(6)
9, 10	11	25		
09	E/G	O	934463	114516
10	E/G	O	934420	140282
11	E/G	O	934464	–
12	E/G	O	933098	–
13	J	O	934462	633260
14	J	O	934285	–
18	F/H	O	934465	928546
19	F/H	O	934467	928547
09	E/G	A-F	934469	114516
10	E/G	A-F	934471	140282
11	E/G	A-F	934470	–
12	E/G	A-F	934295	–
13	J	A-F	934472	633260
14	J	A-F	934321	–
18	F/H	A-F	934473	928546
19	F/H	A-F	934475	928547

Table 3 – Industrial Valve Plate

MODEL CODE POSITION		(9)
4, 5, 6	7, 8	
057	ER	937017
057	MR	933083
057	EL	937167
057	ML	937168
063	ER	937169
063	MR	934292
063	EL	937170
063	ML	937171

Table 4 – Mounting Flange

MODEL CODE POSITION			(11)
11	13, 14	15, 16	
E	02	00/AA/AC	934520
E	02	AB/AD	934522
F	04	00/AA/AC	934525
F	04	AB/AD	934527
G	02	00/AA/AC	933091
G	02	AB/AD	934404
G	04	00/AA/AC	934558
G	04	AB/AD	934562
H	04	00/AA/AC	934554
H	04	AB/AD	934556
J	02	00/AA/AC	934282
J	02	AB/AD	934571
J	04	00/AA/AC	934560
J	04	AB/AD	934564
K	04	00/AA/AC	934555
K	04	AB/AD	934565

Table 5 – Housing

MODEL CODE POSITION	(21)
13, 14	
02	933093
04	934566

Table 6 – End Cover (Non Thru Drive)

MODEL CODE POSITION		(23)
8	12, 13, 14	
R	S02	933096
R	S04	934499
L	S02	934289
L	S04	934504
R	E02	934413
R	E04	934498
L	E02	934502
L	E04	934503

Table 7 – End Cover (Thru Drive), Adapter and O-Rings

MODEL CODE POSITION			(23)	(69)	(71)	(72)
8	13, 14	25				
R	02	A/B	934284	–	–	576601
R	02	C/D	934284	934296	401525	576601
R	02	E/F	934284	934298	353264	576601
R	04	A/B	934500	–	–	943809
R	04	C/D	934500	934567	401525	943809
R	04	E/F	934500	934569	353264	943809
R	04	G/H	934501	–	–	943809
R	04	J/K	934501	934568	943810	943809
R	04	L/M	934501	934570	943811	943809
L	02	A/B	934505	–	–	576601
L	02	C/D	934505	934296	401525	576601
L	02	E/F	934505	934298	353264	576601
L	04	A/B	934506	–	–	576601
L	04	C/D	934506	934567	401525	576601
L	04	E/F	934506	934569	353264	576601
L	04	G/H	934507	–	–	943809
L	04	J/K	934507	934568	943810	943809
L	04	L/M	934507	934570	943811	943809

Table 8 – Coupling

MODEL CODE POSITION		(73)
25	REF	
A	A9	877039
B	A11	913411
C	B13	877040
D	B15	877044
E	C14	877045
F	C17	877046

Torque Values

ITEM	TORQUE VALUES
2	31-37 Nm (23-27.4 ft-lb)
12	257-315 Nm (190-232 ft-lb)
13	103-127 Nm (76-94 ft-lb)
22	75-83 Nm (55-61 ft-lb)
26	29-32 Nm (21-23 ft-lb)
27	57-315 Nm (190-232 ft-lb)
28	257-315 Nm (190-232 ft-lb)
32	236-265 Nm (174-195 ft-lb)
35	24-30 Nm (17-22 ft-lb)
51	3,6-4,4 Nm (2.6-3.2 ft-lb)
68	31-37 Nm (23-27 ft-lb)
70	103-127 Nm (76-94 ft-lb)

Identification of Model Code

Model PVM131
Model PVM141

PVM 131 E R 10 E S 02 AA A 28 00 00 0 0 A 0 A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

1 2 3 Pump series
PVM M-Series variable piston pump

4 5 6 Displacement
131 131.1cm³/rev (8.0 in³/rev) 280 bar
141 141.0cm³/rev (8.6 in³/rev) 230 bar

7 Valve plate
E Industrial (1800 rpm max)
M Mobile equipment speeds

8 Input rotation
R Clockwise (righthand)
L Counterclockwise (lefthand)

9 10 Input shaft
09 SAE J744-32-1 C straight key
10 SAE J744-38-1 C-C straight key
11 SAE J744-32-1 C 14T spline
12 SAE J744-38-1 C-C 17T spline
13 SAE J744-44-1 D straight key
14 SAE J744-44-2 D 13T spline

11 Mounting flange
E SAE J744-127-2 (SAE C 2 bolt)
G SAE J744-127-4 (SAE C 4 bolt)
J SAE J744-152-4 (SAE D 4 bolt)

12 Main port location
E End (na on thru drive)
S Side

13 14 Main port type
02 SAE J518 flange ports
04 ISO 6162 flange ports

15 16 Pump special features
00 None (single shaft seal)
AA Adjustable maximum displacement stop and single shaft seal (standard)
AB Double shaft seal, two way
AD Adjustable maximum displacement stop and double shaft seal

17 Control
0 None
A Pressure compensator
B Pressure and flow compensator with bleed orifice
C Pressure and flow compensator with plugged orifice

18 19 Pressure comp setting
00 None
07 66-74 bar (957-1073 psi)
23 227-234 bar (3277-3393 psi) 141 cm³/rev
28 276-284 bar (4002-4118 psi) 131 cm³/rev

20 21 Flow comp setting
00 None
11 10-11 bar (145-174 psi)
20 19-21 bar (275.5-304.5 psi)
24 23-25 bar (333.5-362.5 psi)

22 23 Torque limiter setting
00 None

24 Compensator special features
0 None

25 Auxiliary mounting pad
0 None
A SAE A 2 bolt 9T spline
B SAE A 2 bolt 11T spline
C SAE B 2/4 bolt 13T spline
D SAE B-B 2/4 bolt 15T spline
E SAE C 2/4 bolt 14T spline
F SAE C-C 2/4 bolt 17T spline

26 Paint
0 No paint
A Blue (standard)

27 Customer identification
0 None

28 Design code
A A (initial release)

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