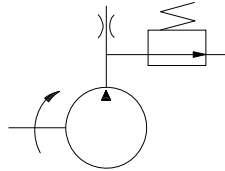
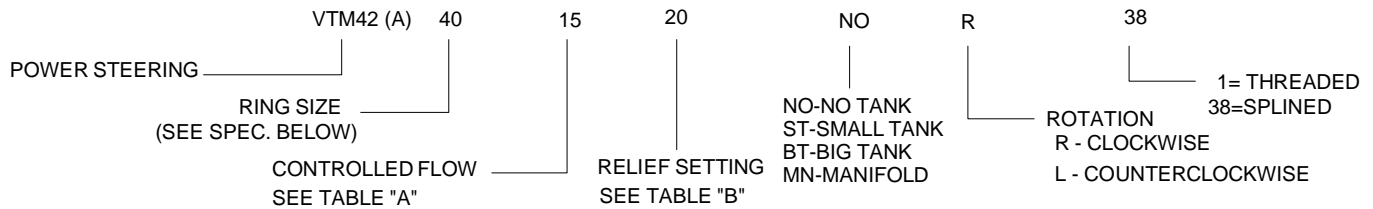


Hydraulic Vane pump Eaton Vickers VTM42 Power Steering Pump

- * Compact Power Source for Steering Assemblies
- * Integral Relief and Flow Control
- * High Efficiency
- * Balanced Cartridge Design
- * Quiet Operation



Power Steering Pump Ordering Specifications



Values based on using anti-wear type petroleum oil 150 SUS at 100°F and 0 PSI inlet pressure.

MODEL SERIES	RING SIZE (DELIVERY USgpm @ 1200 R/MIN & 100 PSI)	DISPL. in ³ /r (cm ³ /r)	MAXIMUM SPEED - RPM			MAXIMUM PRESSURE PSI (BAR)	APPROX. WEIGHT lbs. (kg.)
			@100 PSI 7 BAR	@1500 PSI (100 BAR)	@2000 PSI (140 BAR)		
VTM42	1	0.21 (3.4)	7000	5000	4250	2000 (140)	14 (6.4)
	1.5	0.31 (5.1)	7000	4500	4000		
	2	0.38 (6.2)	7000	4200	3800		
	4	0.79 (12.9)	7000	2800	2800		
	5	0.96 (15.7)	6000	2600	2300		
	6	1.18 (19.3)	5000	2500	2000		

TABLE A Controlled Flow (at 1600 RPM & 100 PSI)

15	-1.5 USgpm (6 L/min)
20	-2.0 USgpm (8 L/min)
25	-2.5 USgpm (9.5 L/min)
30	-3.0 USgpm (11 L/min)
35	-3.5 USgpm (13 L/min)
40	-4.0 USgpm (15 L/min)
45	-4.5 USgpm (17 L/min)
50	-5.0 USgpm (19 L/min)
55	-5.5 USgpm (21 L/min)
60	-6.0 USgpm (23 L/min)
65	-6.5 USgpm (25 L/min)
70	-7.0 USgpm (26.5 L/min)
75	-7.5 USgpm (28 L/min)

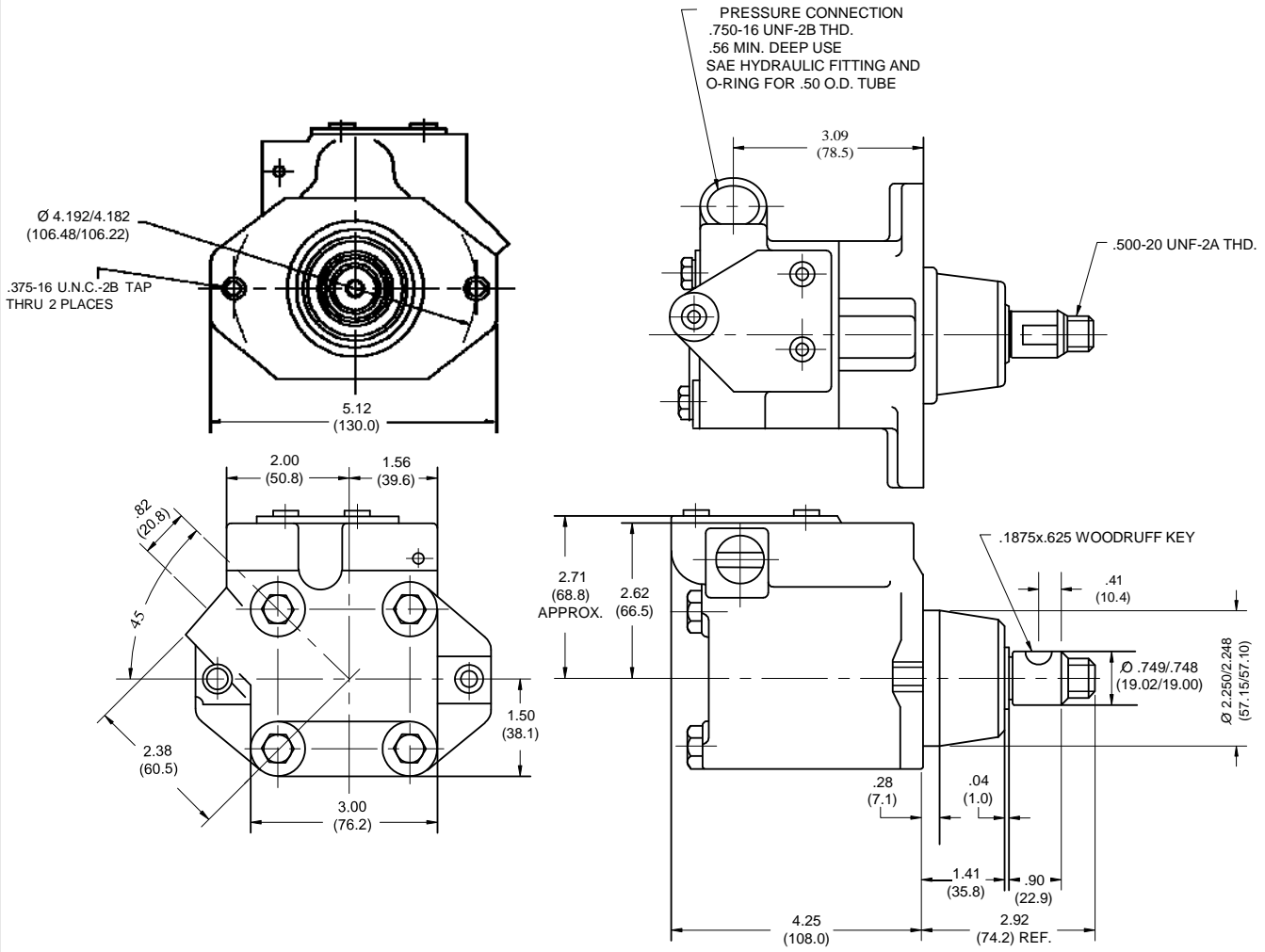
TABLE B Relief Setting

05	-500 psi (35 bar)
07	-750 psi (52 bar)
10	-1000 psi (70 bar)
12	-1250 psi (86 bar)
15	-1500 psi (100 bar)
17	-1750 psi (120 bar)
20	-2000 psi (140 bar)

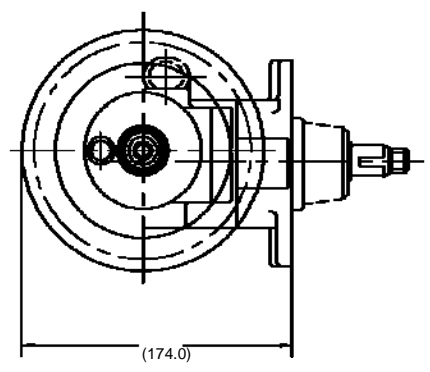
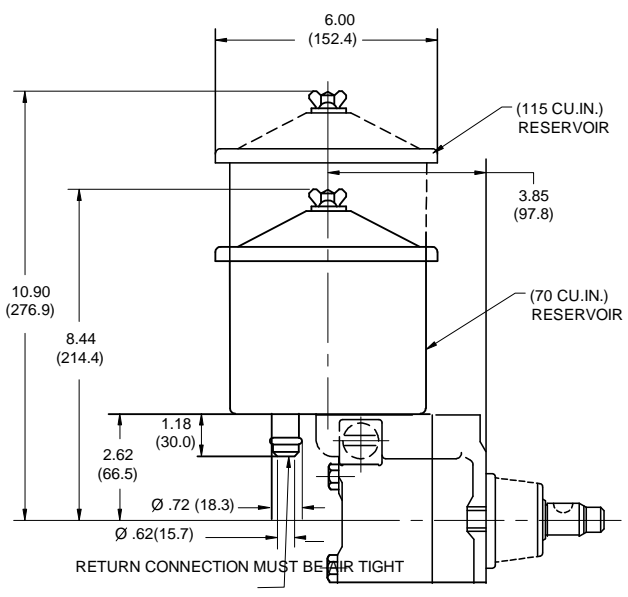
We offers a complete line of economical high performance fixed displacement VTM vane pumps providing flows up to 25 US GPM and pressures to 2000 psi for mobile and marine power steering applications. The integral flow control and relief valve eliminate the need for external valving and combined with the top mounted reservoir, you have a compact power package. Units can be supplied with a manifold assembly to be piped to an external tank or assembled on existing installations. Units are supplied with a threaded shaft and a heavy duty front bearing for gear and pulley drive assemblies.

VTM42 POWER STEERING VANE PUMP INSTALLATION/DIMENSIONS

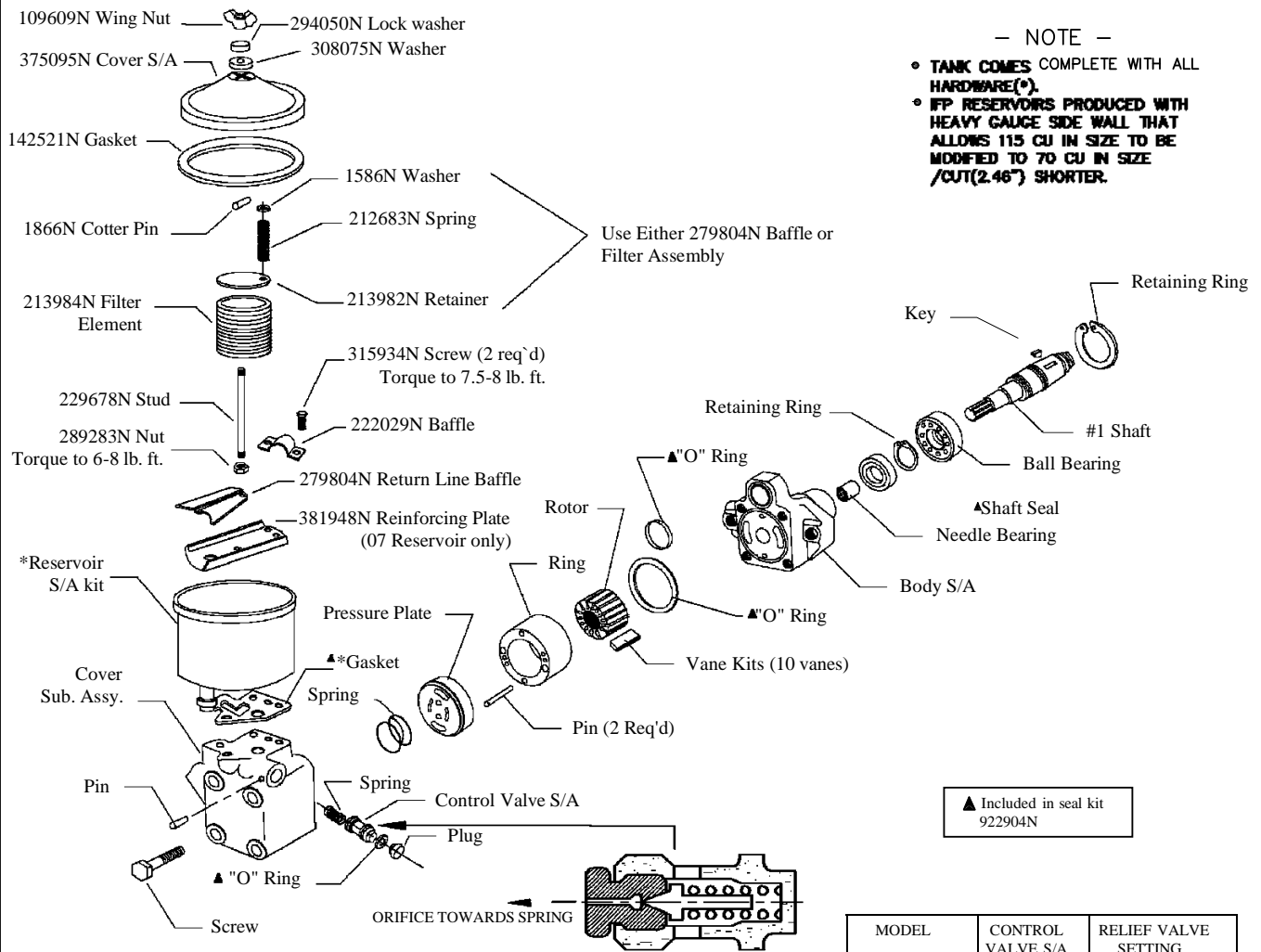
www.hydump.com



RESERVOIRS ARE PRODUCED WITH A HEAVY GAUGE SIDE WALL THAT ALLOWS 115 CU IN SIZE TO BE MODIFIED TO 70 CU IN SIZE



VTM42 POWER STEERING PUMP SERVICE PARTS INFORMATION



— NOTE —

- TANK COMES COMPLETE WITH ALL HARDWARE(*).
- FP RESERVOIRS PRODUCED WITH HEAVY GAUGE SIDE WALL THAT ALLOWS 115 CU IN SIZE TO BE MODIFIED TO 70 CU IN SIZE /CUT(2.46") SHORTER.

MODEL	CARTRIDGE	ROTOR	VANE KIT (10 Vanes)	RING	PIN (2 req'd)	PRESSURE PLATE	SPRING
VTM** - 10	923087N	213860N	912139N	296594N	217308N	276396N	289281N
VTM** - 15	923088N		296595N				
VTM** - 20	923089N		296596N				
VTM** - 40	923090N	213859N	922594N	296597N	154364N		245507N
VTM** - 50	923091N		296598N				
VTM** - 60	923092N		296599N				

MODEL	CONTROL VALVE S/A	RELIEF VALVE SETTING
VTM**.**.02	229613	250PSI
VTM**.**.03	255515	300PSI
VTM**.**.05	233018	500PSI
VTM**.**.06	247615	600PSI
VTM**.**.07	232794	750PSI
VTM**.**.08	397339	850PSI
VTM**.**.10	232795	1000PSI
VTM**.**.12	232796	1250PSI
VTM**.**.15	232797	1500PSI
VTM**.**.17	232798	1750PSI
VTM**.**.20	232799	2000PSI

Model	Reservoir S/A Kit		Seal Kit	Body S/A Kit	Needle Bearing	Shaft Seal	Retaining Ring	Ball Bearing	#1 Shaft	Key	Retaining Ring	Filter Element
VTM-42-ST	70 Cu.in.	923837N	922904N	923951N	222440N	263585N	193732N	148423N	250455N	1606N	172376N	213984N
VTM-42-BT	115 Cu.in.	923838N										

CARTRIDGE KIT ROTATION

To change cartridge kit rotation slide cam ring over rotor and vanes, making sure that radius edge of vanes is toward cam ring. Insert locating pins through cam ring, position cam ring so that the arrow on cam ring is pointing in the proper direction.

FLOW CONTROL RELIEF VALVE

When installing control relief valve install hex head first into the cover bore seating on the spring. Press plug fully in and insert lock pin.

**** WARNING ****

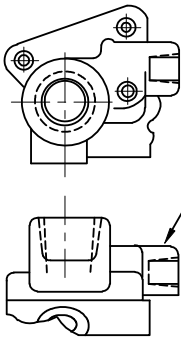
** Failure to follow these steps could cause serious malfunctions and pressures to rise to dangerous levels. **

MANIFOLDS FOR POWER STEERING PUMPS

www.hydpump.com

MANIFOLD "MF" (275276N)

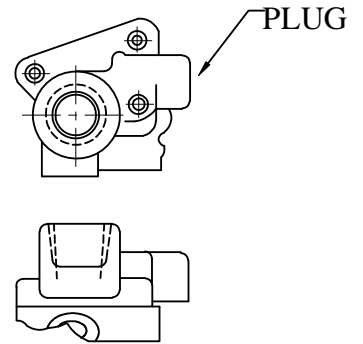
- 3/4 NPT Connection
- C/W 1/4 NPT Bypass



THIS TANK BYPASS CONN. IS REQUIRED FOR INSTALLATIONS WHICH OPERATE AT PUMP RELIEF VALVE PRESSURES FOR PERIODS EXCEEDING 15 SECONDS. CONNECTION MUST BE MADE BELOW OIL LEVEL IN RESERVOIR.

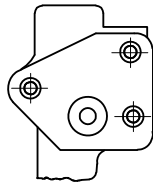
MANIFOLD "ME" (275276N)

- 3/4 NPT Connection
- No Bypass

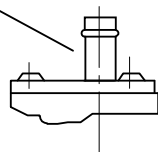


MANIFOLD "MA" (280955N)

- Straight Tube Assembly
- No Bypass

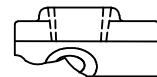
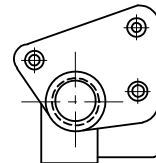


USE .621 I.D. HOSE FASTEN WITH HOSE CLAMP. MUST BE AIR TIGHT.



MANIFOLD "MJ" (292457N)

- 3/4" SAE Connection
- Casting w/Out Bypass Tube



Vickers VTM power steering pump

VTM42403020F07R114	VTM42403520MFR114	VTM42404515NOR114S54	VTM42154015NOR114	VTM42607515NOR114
VTM42152007NOR114	VTM42406520F11R114	VTM42606012NOR114	VTM42404017NOR114	VTM42607515NOL114
VTM42207505NOR114	VTM42504015MAR114	VTM42407515F11R114	VTM42402512MER114	VTM42607515NOR114
VTM42152020NOR114	VTM42606012F11R114	VTM42403520NOR114	VTM42201512MEL114	VTM42402015MER114
VTM42202512NOR114	VTM42106012N0A114	VTM42607520F11R114	VTM42606515MFR114	VTM42605015NOR114
VTM42201507MER114	VTM42106012NOR114	VTM42607515F11R114	VTM42202015NOR114	VTM42605515NOL114
VTM42152015MAR114	VTM42153007NOR114	VTM42606520F11R114	VTM42505512NOR114	VTM42605515NOR114
VTM42A403003MFR38	VTM42503020NOR114	VTM42605015F11L114	VTM42402017F07R114	VTM42504520MAL114
VTM42202015MJR114	VTM42207507NOL114	VTM42605015F11R114	VTM42402007NOR114	VTM42204010NOR114
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VTM42407515NOR114	VTM42504512NOR114	VTM42404015NOR114	VTM42101510F11R114	VTM42206012NOR114
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