

## CONTROLLED VOLUME PUMP DATA SHEET CP500 - V AND X SERIES

PROJECT			PURCHASE ORDER NO.		
CUSTOMER			UNIT NO.		
SITE			SIZE & TYPE		
SPECIFICATION NO.			MODEL NO.		
NO. PUMPS REQUIRED			LIQUID HANDLED		
PUMPING TEMP.		°F      °C	SITE TEMP. - MIN		°F      °C
SPECIFIC GRAVITY		@      °F      °C	SITE TEMP. - MAX		°F      °C
VAPOR PRESS		PSIA      BARA	CAPACITY		GPH      LPH
DISCHARGE PRESSURE		PSIG      BARG	SUCTION PRESSURE		PSIG      BARB
VISCOSITY		SSU      CP	NPSH AVAIL.		PSIG      FT <input type="checkbox"/> mm <input type="checkbox"/>
ELECTRICAL AREA HAZARD		CLASS	GROUP		DIVISION
LOCATION		INDOOR <input type="checkbox"/>	OUTDOOR <input type="checkbox"/>	HEATED <input type="checkbox"/>	UNHEATED <input type="checkbox"/>

  

**MANUFACTURERS SPECIFICATIONS**

<b>PUMP HEAD</b>	
PLUNGER	0.500" (12.7 mm) DIA
CHECK VALVES	BALL TYPE WITH TEFLON SEAT INLET: ½" NPT (M) VERTICAL DISC: ¼" NPT (F) 100 PSIG (6.9 BARG)
VALVE BALL	<input type="checkbox"/> 316SS (STANDARD) <input type="checkbox"/> CERAMIC (OPTIONAL)
VALVE SPRING	ELGILOY
PACKING	DUAL PLUNGER SEAL <input type="checkbox"/> MECHANICAL <input type="checkbox"/> O-RING
BLEED PORT	INTERGRAL WITH 0.25" (6.3mm) DIA. HOSE BARB
<b>MOTOR CYLINDER</b>	
CYLINDER MATERIAL	<input type="checkbox"/> 316SS V SERIES <input type="checkbox"/> 6061 ALUM X SERIES
PISTON DIAMETER	<input type="checkbox"/> 2.25" (57.15 mm) DIA. <input type="checkbox"/> 3.00" (76.20 mm) DIA. <input type="checkbox"/> 4.00" (101.60 mm) DIA.
PISTON MATERIAL	<input type="checkbox"/> 2024 ALUM. (STANDARD) <input type="checkbox"/> 316SS (OPTIONAL)
PISTON SEAL: U-CUP	<input type="checkbox"/> BUNA-N (STANDARD) <input type="checkbox"/> VITON (OPTIONAL)
GUIDE RING	<input type="checkbox"/> TEFLON

  

**PERFORMANCE**

STROKE ADJUSTMENT	MICROMETER
LENGTH OF STROKE	0" TO 1.0 (25mm) <input type="checkbox"/> OTHER <input type="checkbox"/> _____
PLUNGER STROKE RATE	0 TO 45 SPM <input type="checkbox"/> OTHER <input type="checkbox"/> _____
<b>RATE CAPACITY</b>	<input type="checkbox"/> 225    2.30 GPH/8.71 LPH @ 0 PSIG (0 BARG) 2.21 GPH/8.36 LPH @ 1500 PSIG (103 BARG) <input type="checkbox"/> 300    2.30 GPH/8.71 LPH @ 0 PSIG (0 BARG) 1.95 GPH/7.49 LPH @ 2500 PSIG (172 BARG) <input type="checkbox"/> 400    2.30 GPH/8.71 LPH @ 0 PSIG (0 BARG) 2.06 GPH/7.79 LPH @ 5000 PSIG (344 BARG)
RATED MAX DISCH PRESS	<input type="checkbox"/> 225    1750 PSIG (120 BARG) <input type="checkbox"/> 300    3250 PSIG (224 BARG) @ 100 PSIG AIR SUPPLY <input type="checkbox"/> 400    6300 PSIG (43.4 BARG) @ 100 PSIG AIR SUPPLY 9200 PSIG (63.4 BARG) @ 150 PSIG AIR SUPPLY
NOTE	400    CYL REQUIRES MARK XII CONTROLLER & RELAY COMBINATION
SUCTION REQUIREMENTS	FLOODED (MAX 100 PSI OR 6.9 BARG)
REPEATABILITY	+/- 1.5%

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### MATERIAL OF CONSTRUCTION

PLUNGER	<input type="checkbox"/>	(A) 17-4 PH	
	<input type="checkbox"/>	(B) 316SS	
	<input type="checkbox"/>	(CR) CERAMIC	
PACKING TYPE	MECHANICAL	<input type="checkbox"/> TC (TEFLON COMPOSITE)	100-5,000 PSIG
	SEAL	<input type="checkbox"/> PE (UHMW POLYETHYLENE)	100-5,000 PSIG
		<input type="checkbox"/> TG (TEFLON GRAPHITE)	1,000-10,000 PSIG
	O-RING	<input type="checkbox"/> BR (BUNA-N OR NITRILE)	100-750 PSIG
		<input type="checkbox"/> V (VITON OR FLUOROCARBON RUBBER)	100-750 PSIG
		<input type="checkbox"/> K (KALREZ OR PERFLUORDELASTROMER)	100-750 PSIG
		<input type="checkbox"/> EPR (ETHYLENE PROPYLENE)	100-750 PSIG
PUMP HEAD	<input type="checkbox"/> 316SS	<input type="checkbox"/> 6061 ALUM X SERIES	<input type="checkbox"/> OTHER _____
CHECK VALVE BODY	<input type="checkbox"/> 316SS	<input type="checkbox"/> OTHER _____	
PUMP BODY	<input type="checkbox"/> 316SS	<input type="checkbox"/> OTHER _____	
CONTROLLER	<input type="checkbox"/> MARK XII - ALL 316SS	<input type="checkbox"/> NEOPRENE DIAPHRAGMS (STANDARD)	
	<input type="checkbox"/> MARK II - 6061/2024 ALUM.	<input type="checkbox"/> BUNA-N DIAPHRAGMS (STANDARD)	
		<input type="checkbox"/> VITON DIAPHRAGMS (OPTIONAL)	
	<input type="checkbox"/> MARK VIII - 6061/2024 ALUM.	<input type="checkbox"/> BUNA-N DIAPHRAGMS (STANDARD)	
		<input type="checkbox"/> VITON DIAPHRAGMS (OPTIONAL)	
	<input type="checkbox"/> OTHER _____		
PUMP WEIGHT WITH MARK XII	<input type="checkbox"/> 225	10.0 LB/4.5 KG	
	<input type="checkbox"/> 300	10.0 LB/4.5KG	
	<input type="checkbox"/> 400	15.0 LB/6.8 KG	
LUBRICATION FLUID	PUMP:	SYNTHETIC WITH TEFLON	

### INSPECTIONS & TESTS

	<u>REQUIRED</u>	<u>WITNESSED</u>	<u>NON-WITNESSED</u>
SHOP TEST	STANDARD	<input type="checkbox"/>	<input type="checkbox"/>
HYDROSTATCI TEST	UPON REQUEST	<input type="checkbox"/>	<input type="checkbox"/>
PERFORMANCE TEST	UPON REQUEST	<input type="checkbox"/>	<input type="checkbox"/>
REPEATABILITY/LINEARITY	+/- 1.5% (DIAL: 40-100)*	<input type="checkbox"/>	<input type="checkbox"/>
STEADY STATE ACCURACY	+/- 1% MIN.*	<input type="checkbox"/>	<input type="checkbox"/>

\* WITH MARK XII CONTROLLER, AIR CLEAN & DRY

\*\* ALL WITNESSED TESTS ARE UPON REQUEST ONLY AND MUST BE NOTED ON THE PURCHASE ORDER AT THE TIME OF ORIGINAL ORDER. FOR PURPOSES OF THIS DOCUMENT "WITNESSED" MEANS BY SOMEONE OTHER THAN A WILLIAMS EMPLOYEE.

NOTES: