

## CONTROLLED VOLUME PUMP DATA SHEET CRP1000V 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

#### PUMP HEAD

**PLUNGER** 1.000" (25.4 mm) DIA.  
**CHECK VALVES** BALL TYPE WITH TEFLON SEAT  
 INLET: 3/4" NPT (M) VERTICAL  
 DISC: 1/2" NPT (F) 100 PSIG (6.9 BARG)  
**VALVE BALL**  316SS (STANDARD)       CERAMIC (OPTIONAL)  
**VALVE SPRING** ELGILOY  
**PACKING** DUAL PLUNGER SEAL       MECHANICAL       O-RING  
**BLEED PORT** INTERGRAL WITH 0.25" (6.3mm) DIA. HOSE BARB  
**MOTOR CYLINDER**  
**CYLINDER MATERIAL**  316SS  
**PISTON DIAMETER**  4.00" (101.6mm) DIA.       6.00" (152.4mm) DIA.  
 8.00" (203.2mm) DIA.  
**PISTON MATERIAL**  2024 ALUM. (STANDARD)       316SS (OPTIONAL)  
**PISTON SEAL: U-CUP**  BUNA-N (STANDARD)       VITON (OPTIONAL)  
**GUIDE RING**  TEFLON

### PERFORMANCE

**STROKE ADJUSTMENT** MICROMETER  
**LENGTH OF STROKE** 0" TO 1.0" (25mm)       OTHER  \_\_\_\_\_  
**PLUNGER STROKE RATE** 0 TO 45 SPM       OTHER  \_\_\_\_\_

**RATE CAPACITY**  400 9.08 GPH/34.36 LPH @ 0 PSI (0 BARG)  
 8.92 GPH/33.76 LPH @ 1200 PSIG (82.0 BARG)  
 600 9.08 GPH/34.36 LPH @ 0 PSIG (0 BARG)  
 8.75 GPH/33.11 LPH @ 2500 PSIG (172 BARG)  
 800 8.81 GPH/33.34 LPH @ 0 PSIG (0 BARG)  
 8.43 GPH/31.90 LPH @ 5500 PSIG (329 BARG)

**RATED MAXIMUM DISCHARGE PRESS.**  400 1520 PSIG (104 BARG) @ 100 PSIG (6.9 BARG)  
 2300 PSIG (158 BARG) @ 150 PSIG (10.3 BARG)  
 600 3400 PSIG (234 BARG) @ 100 PSIG (6.9 BARG)  
 4700 PSIG (324 BARG) @ 150 PSIG (10.3 BARG)  
 800 6300 PSIG (434 BARG) @ 100 PSIG (6.9 BARG)  
 9100 PSIG (627 BARG) @ 150 PSIG (10.3 BARG)

**NOTE** ALL UNITS REQUIRE CONTROLLER RELAY COMBINATION  
**SUCTION REQUIREMENTS** FLOODED (MAX 100 PSI OR 7 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 <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"/> OTHER _____	
CHECK VALVE BODY		<input type="checkbox"/> 316SS <input type="checkbox"/> OTHER _____	
PUMP BODY		<input type="checkbox"/> 316SS <input type="checkbox"/> OTHER _____	
CONTROLLER		MARK XII - ALL 316SS <input type="checkbox"/> NEOPRENE DIAPHRAGMS <input type="checkbox"/> OTHER _____	
PNEUMATIC RELAY		AIR @ 50 PSIG (3.4 BARG) TO 150 PSIG (10.3 BARG) <input type="checkbox"/> PO3-6S SINGLE ACTION RELAY (USED ON 4" & 6" MOTOR CYLINDER) <input type="checkbox"/> PO4-6S DOUBLE ACTION RELAY (USED ON 8" MOTOR CYLINDER)	
PUMP WEIGHT WITH MARK XII		<input type="checkbox"/> 400 29.0 LB/13.2KG <input type="checkbox"/> 600 35.5 LB/16.1KG <input type="checkbox"/> 800 47.0 LB/21.6KG	
LUBRICATION FLUID		PUMP: SYNTHETIC WITH TEFLON CONTROLLER: SILICONE SSP-1208 RELAY: SILICONE SSP-1208	

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 ** <u>ALL WITNESSED TESTS ARE UPON REQUEST ONLY</u> 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:			