

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	<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				
MOTOR CYLINDER					
CYLINDER MATERIAL	<input type="checkbox"/> 316SS				
PISTON DIAMETER	<input type="checkbox"/> 4.00" (101.6mm) DIA.	<input type="checkbox"/> 6.00" (152.4mm) DIA.			
	<input type="checkbox"/> 8.00" (203.2mm) 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"/> _____			
RATE CAPACITY	<input type="checkbox"/> 400	9.08 GPH/34.36 LPH @ 0 PSI (0 BARG) 8.92 GPH/33.76 LPH @ 1200 PSIG (82.0 BARG)			
	<input type="checkbox"/> 600	9.08 GPH/34.36 LPH @ 0 PSIG (0 BARG) 8.75 GPH/33.11 LPH @ 2500 PSIG (172 BARG)			
	<input type="checkbox"/> 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.	<input type="checkbox"/> 400	1520 PSIG (104 BARG) @ 100 PSIG (6.9 BARG) 2300 PSIG (158 BARG) @ 150 PSIG (10.3 BARG)			
	<input type="checkbox"/> 600	3400 PSIG (234 BARG) @ 100 PSIG (6.9 BARG) 4700 PSIG (324 BARG) @ 150 PSIG (10.3 BARG)			
	<input type="checkbox"/> 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:			