

CONTROLLED VOLUME PUMP DATA SHEET CP250 - 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 BARG			
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 0.250" (6.35mm) DIA

CHECK VALVES BALL TYPE WITH TEFLON SEAT
INLET: ¼" NPT (M) VERTICAL
DISC: ¼" 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 V SERIES 6061 ALUM X SERIES

PISTON DIAMETER 2.25" (57.15 mm) DIA. 3.00" (76.20 mm) 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 225 0.57 GPH/2.16 LPH @ 0 PSIG (0 BARG)
0.50 GPH/1.89 LPH @ 6600 PSIG (455 BARG)

300 0.57 GPH/2.16 LPH @ 0 PSIG (0 BARG)
0.30 GPH/1.13 LPH @ 11,000 PSIG (758 BARG)

RATED MAXIMUM DISCHARGE PRESS. 225 7,200 PSIG (496 BARG) @ 100 PSIG (6.9 BARG)

300 1,3100 PSIG (903 BARG) @ 100 PSIG (6.9 BARG)

SUCTION REQUIREMENTS FLOODED (MAX 100 PSI OR 6.9 BARG)

REPEATABILITY +/- 1.5%

**CONTROLLED VOLUME PUMP DATA SHEET
CP250 - V AND X SERIES**

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 9.0 LB/4.1 KG <input type="checkbox"/> 300 9.0 LB/4.1 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"/>
HYDROSTAT/CI 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: