

## CONTROLLED VOLUME PUMP DATA SHEET CP125 - 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"/>	
<b>MANUFACTURERS SPECIFICATIONS</b>					
<b>PUMP HEAD</b>					
PLUNGER	0.125" (3.175 mm) DIA.				
CHECK VALVES	BALL TYPE WITH TEFLON SEAT				
	INLET: ¼" 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"/> 1.25" (31.75 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				
<b>PERFORMANCE</b>					
STROKE ADJUSTMENT	MICROMETER				
LENGTH OF STROKE	<input type="checkbox"/> 0" TO 0.5" (13mm)		<input type="checkbox"/> OTHER _____		
PLUNGER STROKE RATE	<input type="checkbox"/> 0 TO 45 SPM		<input type="checkbox"/> OTHER _____		
<b>RATE CAPACITY</b>	125	0.07 GPH/.27 LPH @ 0 PSIG (0 BARG)			
		0.025 GPH/.095 LPH @ 8500 PSIG (455 BARG)			
<b>RATED MAXIMUM DISCHARGE PRESS.</b>	125	8650 PSIG (596.4 BARG) @ 100 PSIG (6.9 BARG)			
SUCTION REQUIREMENTS	FLOODED (MAX 100 PSI OR 7 BARG)				
PNEUMATIC CONTROLLER	V SERIES <input type="checkbox"/> MARK XII (AIR 30-100 PSIG) (2-6.9 BARG)				
	X SERIES <input type="checkbox"/> MARK VIII (AIR 50-90 PSIG) (3.4-6.2 BARG)				
	<input type="checkbox"/> MARK II (AIR 25-65 PSIG) (1.7-4.4 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"/> 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"/> 125V	7.0 LB/3.2 KG	
	<input type="checkbox"/> 125X	6.8 LB/3.1 KG	
LUBRICATION FLUID	PUMP:	SYNTHETIC WITH TEFLON	
	MARK XII:	SILICONE SSP-1208	
	OTHERS:	NONE	

**INSPECTIONS & TESTS**

	<u>REQUIRED</u>	<u>WITNESSED**</u>	<u>NON-WITNESSED</u>
SHOP TEST	STANDARD	<input type="checkbox"/>	<input type="checkbox"/>
HYDROSTATIC 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: