



UNIQUE SYSTEMS®

INCORPORATED

ONE SADDLE ROAD - CEDAR KNOLLS, NEW JERSEY 07927-1998

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MODEL # 2VPV-20B VACUUM PRIMING VALVE CATALOG SPECIFICATION SHEET

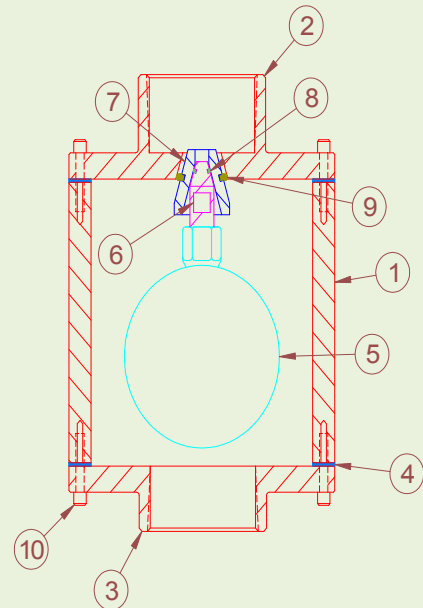
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TECHNICAL REFERENCES

- Dwg. # 502975 – Outline Drawing
- Dwg. # 502974 – Recommended Priming Valve GA

Note:
Refer to system IO&M manual for integrated operation with the vacuum system.



UNIQUE SYSTEMS VACUUM PRIMING VALVE					
MODEL #	2VPV-20B				
PART #	502966				
FLOW RANGE	INTERMITTENT VENT				
APPLICATION	VACUUM PRIMING SERVICE, HIGH POINT AIR VENT				
CONNECTIONS	2" NPT IN/OUT				
CONSTRUCTION	BRONZE BODY, BRASS/COPPER INTERNALS				
ITEM	DESCRIPTION	PART NO.	QUANTITY	MATERIAL	SPEC.
1	Vent Chamber	502927	1	Bronze	SAE 660
2	Outlet Cover (Top)	502928	1	Bronze	SAE 660
3	Inlet Cover (Bottom)	502929	1	Bronze	SAE 660
4	Cover Gasket	502930	2	Aramid/Nitrile	BG3000
5	Valve Float	502931	1	Copper	--
6	Valve Stem	502964	1	Brass H02	Alloy 360
7	Valve Poppet	502965	1	Brass H02	Alloy 360
8	Poppet O-Ring	9557K462	1	EPDM	D2000
9	Stem O-Ring	9557K477	1	EPDM	D2000
10	Cap Screw	92196A542	16	SS	A304 (18-18)
11	Name Plate	502347	4	SS	A304
12	Flow Arrow	16055T237	1	Vinyl	--
MECHANICAL DESIGN					
DESIGN PRESSURE	15 PSIG + F.V.				
DESIGN TEMPERATURE	200° F / -20° F				

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CAPACITY

The Vacuum Priming Valve is designed for intermittent venting of air therefore its flow capacity is relatively small. Valve operation is completely automatic and self-adjusting, as necessary, without any operator intervention required.

INSTALLATION

The drain valve should be installed in the vertical position as shown in the diagram on Page 1. During the initial priming phase, a relatively large flow capacity is required in order to complete priming within a reasonable amount of time. Given the relatively small air flow capacity of the priming valve by itself a 2" bypass is recommended. With a bypass installed, initial priming air is allowed to vent around the priming valve at high flow rates until the system is completely primed with water. At that point, the bypass is closed and the priming valve performs intermittent venting duty during normal main condenser operation, releasing any air that accumulates at the top of the water boxes. For a fully-automated and independent bypass, an Automated Priming Bypass Assembly is recommended. Please contact Unique Systems for information and details on automated priming options.

MAINTENANCE

Unique Systems' Vacuum Priming Valve is easy to maintain given the relatively few internal parts comprising the valve. Before beginning any maintenance or internal inspection of the valve, ensure that the valve is completely isolated from the process top and bottom. The drainer should be disassembled periodically for inspection and cleaning of the valve seat. A Vacuum Priming Valve in good working order is critical to the performance and operation of the main condenser and the cooling system as a whole.

SPARE PARTS

For a complete listing of factory spare parts, please refer to Doc # 2VPV-20B-RSPL Recommended Spare Parts Listing.

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