High Viscosity Concentration Fluid Blending and Distribution Systems

Custom Coolant Equipment Inc.

Practical solutions for Mixing and Distributing High Viscosity and High Water Concentration Water Based Fluids.
Systems are capable of accurately blending any concentration with virtually any concentrate viscosity.

PRO/MARK INDUSTRIALS
Div. R.D. Lewis Sales Limited
Lubrication & Fluid Storage and Handling Solutions
Sales - System Design - Consulting

P.O. Box 1504, Woodstock, ON N4S 0A7 Phone: (519) 658-3204 E-Mail: sales@promarkindustrials.ca

High Viscosity Concentration Coolant Blending and Distribution Systems

Pro/Mark's PVF Series proportioners are designed to provide precise, consistent blending of two component fluids.

- Accurately proportion heavier fluids
  Up to 5,000 CPs
- Positive displacement meters on both the water and concentrate provide consistent and accurate blends.
- Self priming – will draw from totes or drums
- Automatic shut down and alarm in the event of no water and/or concentrate.
- Processor with totalizing counters provide a record of the total fluid used.
- PVF-7A system has the capability of up to 7 preset blend ratios. Change ratios by a simple rotation of a selector switch on the face of the panel.
- Industry proven for durability and consistent operation.
- Turn-key transfer and dispensing system available.

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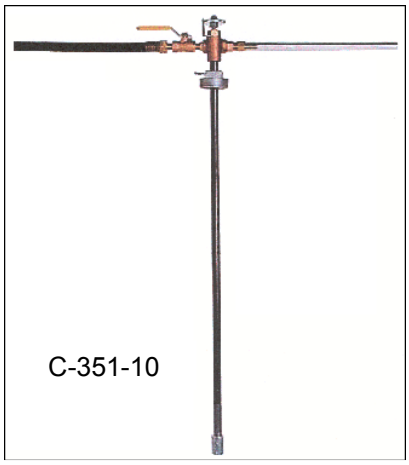
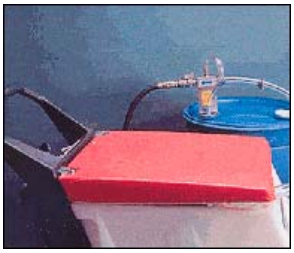
Venturi Type Proportioners

- Save on concentrate purchases.
- Improve product quality and consistency by ending the emulsion guesswork associated with hand mixing.
- Save time through reduced handling of fluids associated with hand mixing.
- Save labour by instantly dispensing a controlled mixture.



C-351-10 ADJUSTABLE VENTURI TYPE PROPORTIONER
The C-351-10 is a compact, easy to use, simple-to-operate venturi style proportioner for the mixing of coolant concentrates and cleaner solutions. An adjustable needle valve provides for accurate mixing and infinite adjustments across the mixture range.
All metal construction
2" NPT sliding bung adapter for various height drums
Includes discharge hose assembly
Inlet shut-off valve includes garden hose thread adapter
Lockable adjusting dial with reference scale.

C-351-10 SPECIFICATIONS:
45:1 [2%] to 10:1 [10%] mixture range
Min. operating water pressure is 25 PSI (1.7 bar) 31 PSI (2.2 bar) static pressure
Max. discharge hose length is 4 ft. (1.2 m)
Max. viscosity is 550 SSU @ 100°F (120 cSt@40°C)
Delivery - up to 10 GPM(US)
NOTE: The stainless steel version must be ordered for mixing with deionized water and for cleaner concentrates that are not compatible with yellow metals.



ADJUSTABLE, TAMPER RESISTANT PROPORTIONER
C-352-4 Operation
Select a metering tip (orifice) and insert it into the suction stub of the proportioner. The orifice size controls the amount of concentrate that will be introduced into the liquid. Charts are provided with the unit to assist orifice selection for various proportioning ratios**.**
Comes with 2" NPT bung bushing, 4 ft. suction tube with foot valve, 4 ft. discharge
tube and 14 tip (orifice) metering kit.
Delivery rate up to 4 GPM(US)
Water supply must be a minimum 1/2" connection with 25 PSI)
The c-352-4 units are built with high quality, chemically resistant materials and have established a reputation for long life in demanding industrial environments..

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Automatic Proportioning System

HydroMinder Automatic Proportioner
Keep any reservoir filled with consistently mixed solution without pouring, stirring, waiting or downtime. When the solution level in a reservoir drops, the HydroMinder's float opens a non-electric, magnetic valve. The flow of water siphons liquid concentrate into the water stream, automatically maintaining the level of ready-to-use solution. (Models are available for maintaining a tank of plain water, too.) When the tank reaches the preset fill level, the HydroMinder shuts off. This mechanism has been working in the field for over 20 years. That's why HydroMinders have become the industry standard for liquid level maintenance.

Approximate Dilution Range @ 40 psi, 1cp

Model	Siphon Breaker	Mounting Bracket	Max. Ratio	Min. Ratio	Flow Rate
506	No	Yes	240:1	4:1	4.5 GPM
507	No	No	240:1	4:1	4.5 GPM
511	Yes	Yes	240:1	4:1	4.5 GPM
512	Yes	No	240:1	4:1	4.5 GPM
515	Yes	Yes	110:1	1:1	1.5 GPM
532	Yes	Yes	195:1	3:1	6 GPM
525	No	Yes	530:1	4:1	9 GPM
530	Yes	Yes	530:1	4:1	9 GPM
561	No	Yes	1200:1	6.5:1	18 GPM
562	Yes	Yes	1200:1	6.5:1	18 GPM
563	Yes	Yes	1024:1	10:1	+25 GPM
564	No	Yes	1024:1	10:1	+25 GPM

Common model for coolant and cleaning agent solutions.

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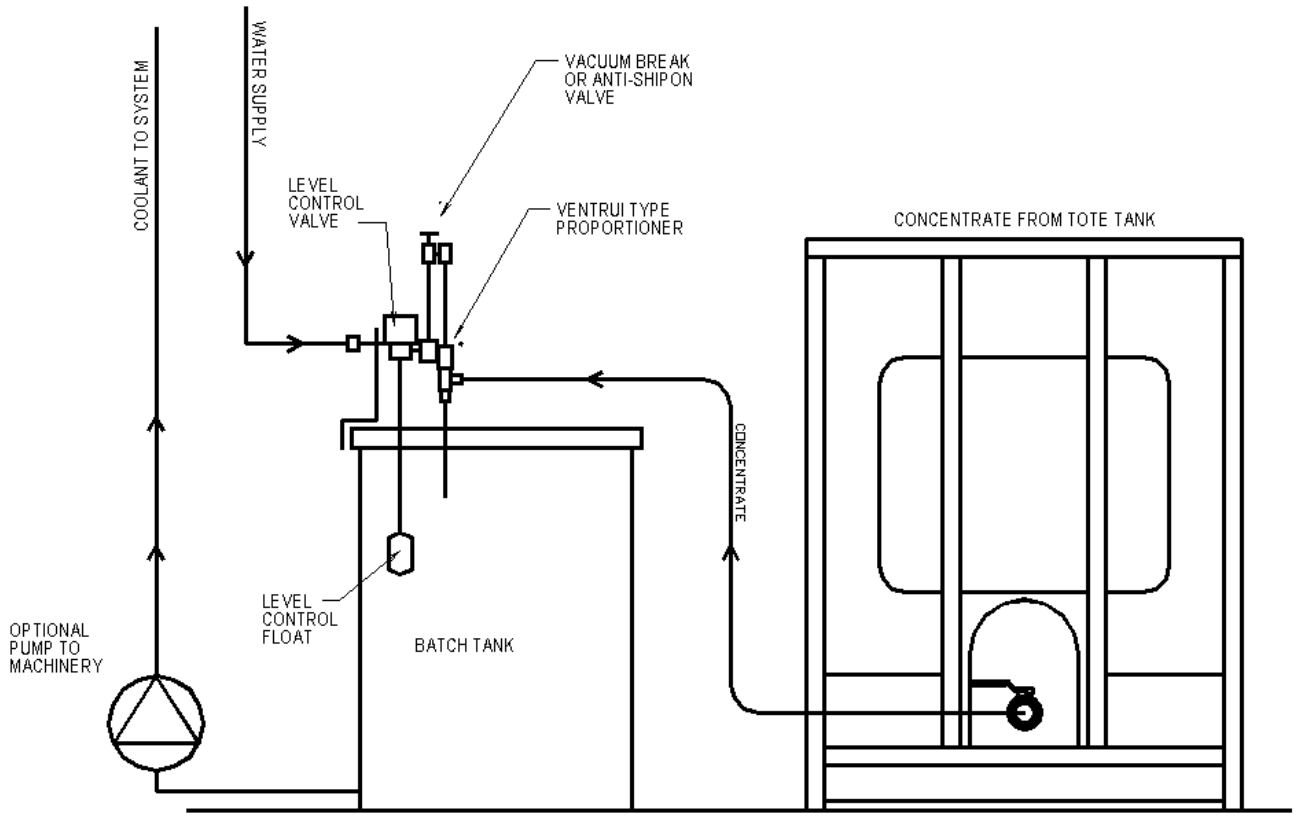
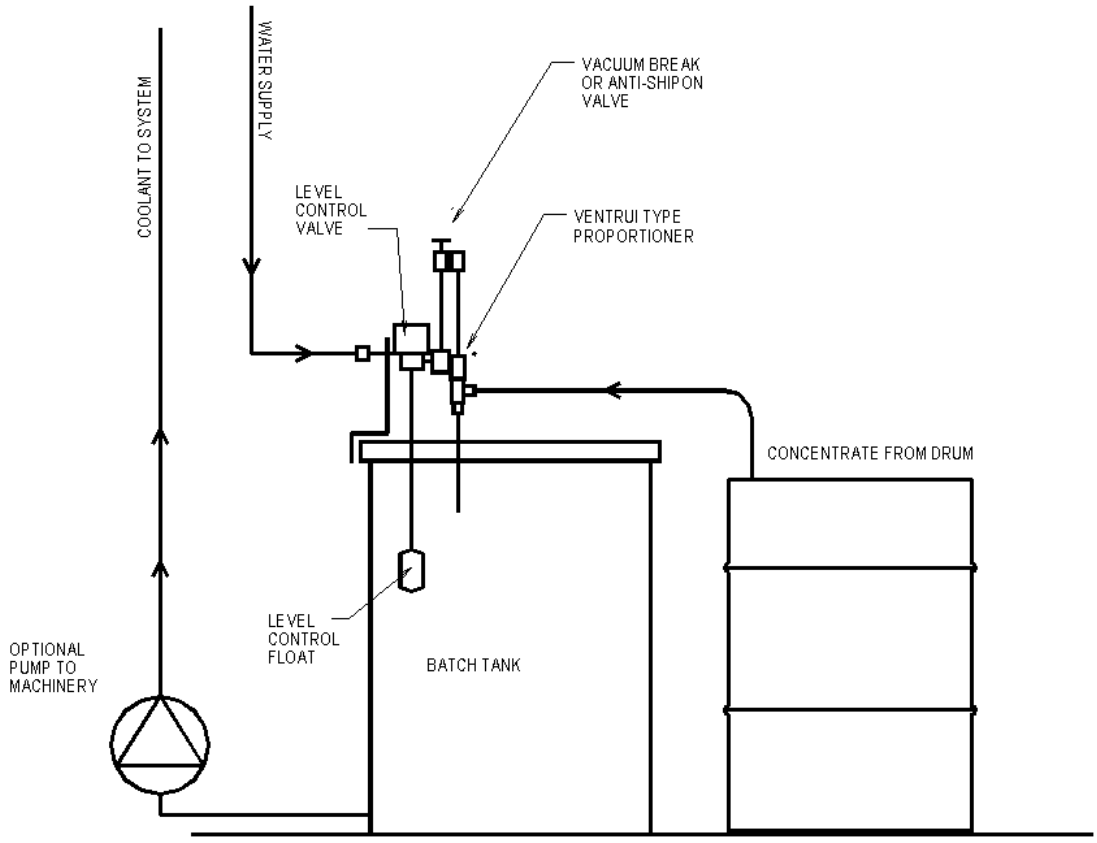
Typical HydroMinder Installations





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Positive Displacement Proportioners

The main feature of positive a displacement proportioner is that variations in water supply pressure or flow do not not effect the proportional accuracy of of the unit. The volume of concentrate dispensed will always be directly proportional to the volume of water entering the unit, whatever variations in water flow or pressure are encountered.
Postive displacement proportioners are suitable for machining coolants and many lighter stamping fluids. (maximum viscosity 2,000 CPS)
NOTE: For viscosities over 2,000 CPS see Pro/Marks Series PVF-7A Proportioners.

When water enters the injector, it triggers the hydraulic motor, which begins moving up and down inside the body of the injector. On the up stroke, the proportioner draws fluid up from the concentrate tank in an action similar to a hypodermic syringe. On the down stroke, the concentrate is displaced into the mixing chamber, where it is mixed with the water flowing through the unit. Then the water-and-chemical mixture is discharged into the water lines.

This volumetric proportioning principle allows you to closely control the amount of fluid being used so that none is wasted.
Positive Displacement chemical dispensers are water-powered and use no electricity or compressed air to operate.

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