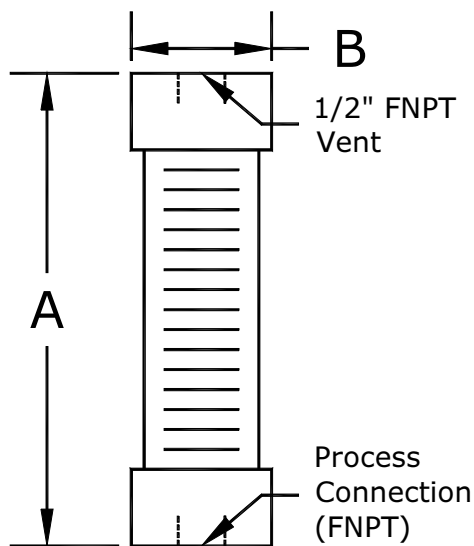


Features:

- Transparent Column - 360° Viewable.
- Sizes to Match any Metering Pump.
- Corrosion Resistant Construction.
- Easy to Install.
- Easy to Clean.
- Dual Unit (GPH/LPH) Scales.
- Integral Vent Connection.
- Provides Tank Level Indication.



NIKKISO HydroChek™ Loss-In-Volume flow verification systems provide a compact, cost effective solution for applications requiring periodic flow monitoring or pump calibration. HydroChek Columns are used as precision, volumetrically calibrated pump suction vessels. By calculating the specific volume of process fluid displaced per unit time, they verify the performance of any pump in its specific application.

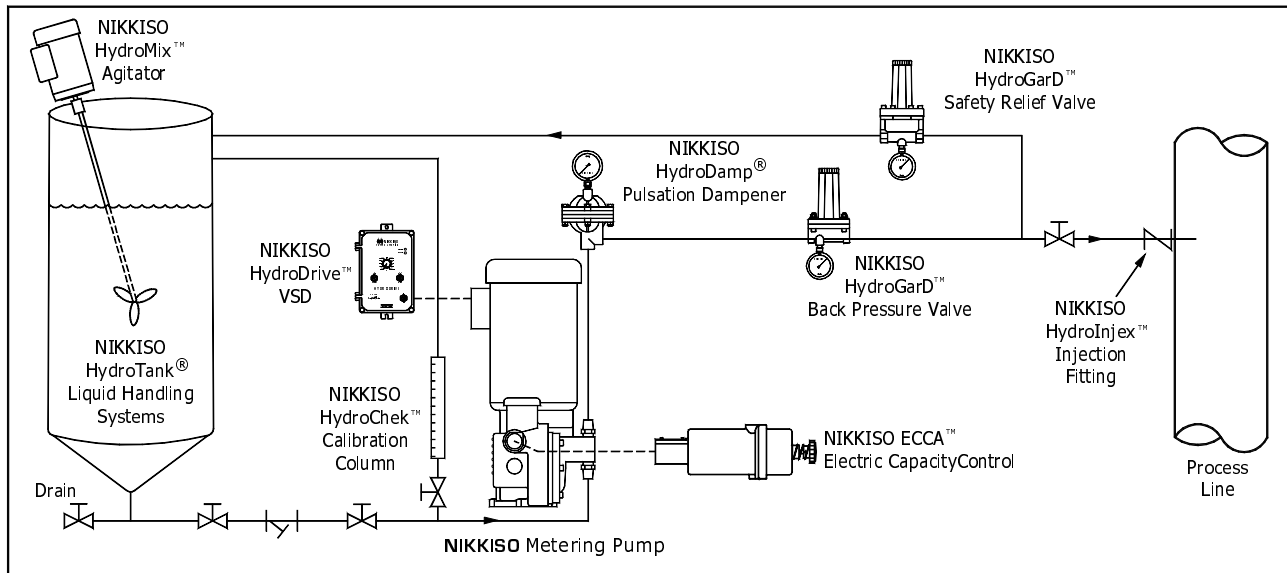
Extending beyond the range of ordinary columns, HydroChek columns are capable of confirming the performance of any chemical metering pump. The columns are constructed of corrosion resistant, fully transparent PVC, and are suitable for all compatible fluids. The use of a transparent column allows viewing from any angle and permits the column to also be used as a visual indication of supply tank level.

Sizing Chart

Model Number	Column Capacity	Maximum* Pump Capacity	Process Connection	A (Typ.)	B (Typ.)
HCC1D08NM	250 ml	8.5 GPH	1/2"	20-1/4"	2"
HCC2D08NM	500 ml	17 GPH	1/2"	32-1/4"	2"
HCC3D12NM	1000 ml	32 GPH	3/4"	29"	2-3/4"
HCC4D12NM	2500 ml	78 GPH	3/4"	56-3/4"	2-3/4"
HCC5D32NM	5 liter	150 GPH	2"	38"	5-1/8"
HCC6D48NM	10 liter	300 GPH	3"	61-1/4"	5-1/8"
HCC7D64NM	25 liter	750 GPH	4"	63-1/4"	7-1/2"

*Maximum pump capacities shown are based on thirty second test. Column sizing is based on usable scale length.

Recommended Installation



Installation

1. Install the NIKKISO HydroChek™ calibration column vertically in the suction line between the metering pump and the supply tank. Since the HydroChek is filled by gravity, the supply tank must have sufficient volume and elevation to fill the column prior to the test.
2. The use of full-port valves, to provide unrestricted flow, is mandatory in the suction and column supply piping (These are available from NIKKISO).
3. Install vent piping from the top of the column vertically to a point above the liquid level of the supply tank. It is preferable to run an overflow line back to the supply tank as shown. The line must *not* be valved.

Note: Never use a calibration column on the discharge side of a pump. This is not a pressure vessel -- maximum pressure is 20 psig. This unit must be vented to atmosphere when in use.

Operating Instructions

An accurate chronometer (stopwatch or wristwatch with precision second indication) and an appropriately sized calibration column are required for the following procedure.

1. With sufficient fluid level in the supply tank, open the valves in the suction and discharge piping, and turn the pump on. After the pump operation stabilizes, open the column valve to fill the calibration column.
2. Close one suction pipe valve when the calibration column is full. As the liquid level falls past the zero mark, start the chronometer. As the liquid level continues to drop, record the level after 30 seconds.
3. The scale is calibrated in both Gallons and Liters. Pump flow rate is read directly from the liquid level on the scale after 30 seconds.
4. When the calibration column is not in use, it should be free of process fluid and the column valve should be kept closed. Suction valves must remain open at all times -- except while performing calibration tests.