

PLAN VIEW

SIGMA SERIES METERING PUMP
2 TYP.
S2BAHM12050 MAX. CAPACITY: 15.9 GPH @ 145 PSIG
S2CAHM12050 MAX. CAPACITY: 15.9 GPH @ 145 PSIG

BLACK UV PROTECTED PP STAND

600mL PVC/VITON PULSATION DAMPENER 2 TYP.

1/2" O.D. PVC TUBING VENT TO TANK

1000 mL PVC CALIBRATION COLUMN

2-1/2" 316 SST PRESSURE GAUGE WITH CPVC/PTFE ISOLATOR (0-160 PSIG)

1/2" PVC BACK PRESSURE VALVE (ADJUSTABLE 0-150 PSIG)

1/2" PVC/VITON NPT BALL VALVE PRODUCT OUTLET

1/2" PVC/VITON NPT BALL VALVE FLUSH PORT 2 TYP.

1/2" PVC PRESSURE RELIEF VALVE (ADJUSTABLE 0-150 PSIG) 2 TYP.

1/2" PVC/VITON WYE-STRAINER

1/2" PVC/VITON NPT BALL VALVE PRODUCT INLET

PRIMING PUMP 2 TYP. @ 145 PSIG @ 145 PSIG

A detailed technical line drawing of a vertical pump assembly. The assembly is mounted on a base and consists of several main components: a large electric motor at the bottom, a pump head with a vertical discharge pipe, and a control valve at the top. The drawing shows various pipes, flanges, and valves, including a check valve and a pressure relief valve. The entire assembly is shown in a side view, highlighting its vertical orientation and the various connections and components involved in its operation.

The diagram shows a hydraulic circuit with two parallel pumps. The main supply line at the top has a pressure gauge. The system branches into two parallel paths, each containing a pump and a check valve. The paths rejoin at the bottom, which has a return line with a check valve. A differential pressure sensor is connected between the two parallel paths. The sensor has two pressure ports, each with a check valve pointing towards the sensor. The sensor is represented by a circle with a triangle inside, and a vertical line with a horizontal bar at the top, indicating a differential pressure measurement point.

NOTES:

1. ALL PIPING AND FITTINGS SHALL BE 1/2" SCH. 80 PVC SOCKET WELD WITH VITON SEALS UNLESS OTHERWISE REQUIRED BY COMPONENTS.
2. ALL DIMENSIONS ARE IN INCHES AND ARE SHOWN FOR REFERENCE ONLY.

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|-----|----------|------------------------|-----|------|------|
| | | | | | |
| A | 05/20/09 | REVISED PER BASIC SKID | ALS | | |
| 0 | 01/18/08 | FIRST ISSUE | GJS | | |
| REV | DATE | DESCRIPTION | BY | APPD | REVD |

REVISIONS



CUSTOMER **PROMINENT FLUID CONTROLS INC.**
(PRE-ENGINEERED SYSTEM)

| | |
|--------|---------|
| JOB No | 7749374 |
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| PURCHASE ORDER No |
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|-------|---|
| TITLE | MS2A-C050_FLOOR_PVC\VITON_PD GENERAL ARRANGEMENT |
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| ENGINEERS SEAL |   | |
| | <div> <div>PITTSBURGH, PA USA</div> <div> PROMINENT FLUID CONTROLS LTD. 490 SOUTHGATE DRIVE. GUELPH, ONTARIO, CANADA N1H 6J3 TEL. 519 836 5692 FAX. 519 836 5226 </div> </div> | |
| | <div> <div>WWW.PROMINENT.US</div> <div> PROMINENT FLUID CONTROLS INC. RIDC PARK WEST 136 INDUSTRY DRIVE, PITTSBURGH P.A., USA. 15275 TEL. 412 787 2484 FAX. 412 787 0704 </div> </div> | |
| | <div>DESIGNED</div> <div>GJS</div> | <div>APPROVED</div> <div></div> |
| | <div>DRAWN</div> <div>GJS</div> | <div>SCALE</div> <div>N.T.S.</div> |
| | <div>CHECKED</div> <div>DTH</div> | <div>DATE</div> <div>01/18/08</div> |

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|------------------------------|---------|
| MAXIMUM TESTING PRESSURE = | 150 PSI |
| MAXIMUM OPERATING PRESSURE = | 145 PSI |
| CHEMICAL SERVICE = | |

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| | DWG No |
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7749374-200

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