

Typical Bypass Setups

Double Pump Setup, no common parts, critical job

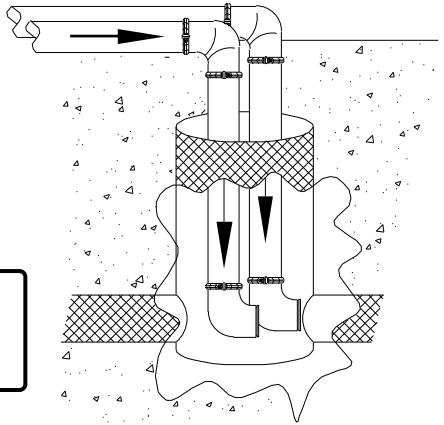
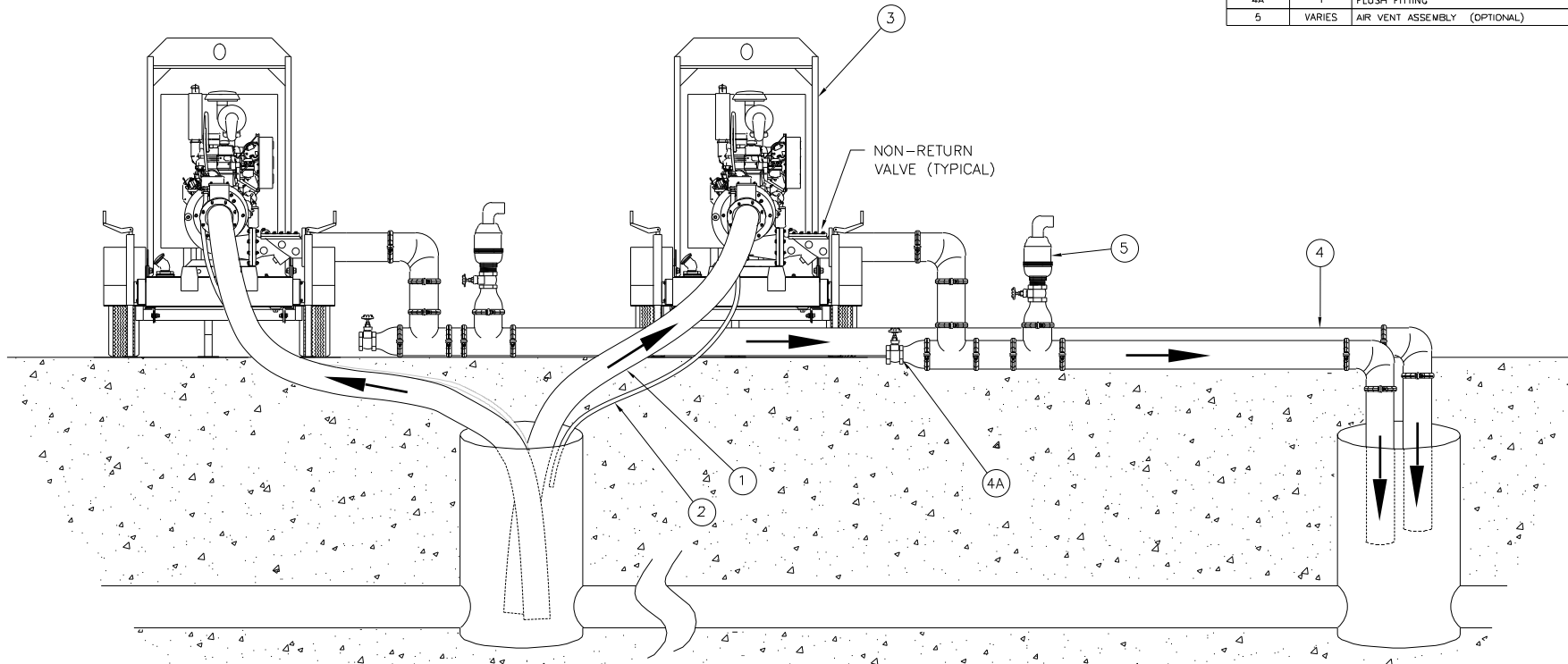
Materials List Double Pump Setup - no common parts, critical job

This method consists of two independent systems, side-by-side. Print this list to verify completion for both setups.

1. Suction hose or pipe sized to match flow requirements of the pump, with some method of protecting the pump from oversized objects in the fluid (hose location or suction screen).
2. Extend the Priming Venturi Discharge Hose into the manhole or other suitable collection point (ensuring no kinks or plugs in the hose).
3. Solids Handling Pump sized for the required flow rate and head.
4. Discharge piping sized for the required flow rate, velocity and acceptable head loss.
 - a. Flush Fitting located as close to the pump as possible (a "T" with a reducer and a gate valve so that clean water can be used to flush the line of solids).
5. Air Vent Valve(s) as required, determined by the length of the discharge pipe and the elevation changes. The air vent riser(s) should be mounted on a "T" in the main pipe, with the riser being 4 to 5 feet in length (this reduces the chance of solids getting into the air vent). A gate valve is located on the top of the riser, before the air vent valve. The gate valve (normally open) is used to isolate the air vent for cleaning in case it becomes fouled and starts to leak.
6. Collection Tank (if needed) is connected to the air vent valve to collect any fluids that escape due to the pressure changes at start up as well as shut down.

REV.NO.	DESCRIPTION	PREVIOUS DWG	BY	DATE

ITEM	QTY.	DESCRIPTION
1	1	SUCTION HOSE OF PIPE
2	1	PRIMING VENTURI DISCHARGE HOSE
3	1	SOLIDS HANDLING PUMP
4	1	DISCHARGE PIPING
4A	1	FLUSH FITTING
5	VARIES	AIR VENT ASSEMBLY (OPTIONAL)



Note - If directional flow is needed, extend the **discharge pipe to the floor, with a 90° elbow pointed to the direction of flow.**

DATE 04-10-00
 Scale NOT TO SCALE
 Engineer
 Designer
 Checker K. MUSICK

TYPICAL BYPASS

2 PUMPS - NO COMMON PARTS
 CRITICAL JOB - 100% BACKUP

POWER PRIME PUMPERS
 3404 State Road PO Box 2248 Buena Vista, Va 22025

1 of 1
 Drawing Number
 100072

Job Number
 991222