

# Suction Diffuser /Flow Diverter Installation and Maintenance Instructions

## Features:

- Reduces both space and installation costs by replacing an extended entry pipe, a long radius elbow and a strainer
- Disposable fine mesh start-up strainer provided on all models, guarantees a clean system
- Steel stabilizing vanes ensure smooth flow into the pump
- Drain/Purge plugs furnished to routinely remove foreign particles and protect pump and other system components
- Optional pressure tap allows monitoring of strainer condition
- Blowdown tapping supplied to protect pump seals from damage by foreign particles.

### Typical Specification:

Provide at each pump a Wheatley suction diffuser of size specified in pump schedule. It shall have a cast iron body, cast-in stabilizing vanes and removable stainless steel strainer. The suction diffuser shall be complete with disposable 20 mesh stainless steel start up strainer. Each suction diffuser shall have a provision for pipe support.

## Installation:

- (1) Provide for distance "C" (see Suction Diffuser Submittal Data Sheet for illustration and "C" dimension). "C" represents distance necessary for removal of strainer and stabilizing vanes.
- (2) Mount standard I.D. support leg and foot to pad cast-on body of suction diffuser.
- (3) After piping and initial circulation are complete, remove fine mesh start-up strainer.
- (4) If optional pressure tap is provided, a gauge can then be connected to both the pump suction and the Suction Diffuser's schrader valve. An increase in pressure drop will indicate when the strainer may require cleaning.

## Maintenance:

It is recommended that the stabilizing vanes be periodically inspected and the permanent strainer be periodically cleaned. This will ensure smooth flow into the pump and avoid damage to the pump components.