

FLOW CONTROL

The Zurn flow control fitting must be installed properly in every installation. An oil interceptor correctly designed to separate oil and light density substances from wastewater, will not by itself govern or regulate the flow of water through it at all times to sufficiently assure the flotation separation of the entrained substances which are to be intercepted at maximum efficiency.

The flow control fitting, designed with an integral orifice, gives a pre-determined optimum flow rate and thus assures the elimination of turbulence in the oil interceptor, which could otherwise occur from sudden surges through the drainage line.

The orifice openings are related to the size and gallons per minute rating of the oil interceptor. It should also be noted that standard orifice sizing is for gravity flow conditions where no pressure build-up is considered. If an interceptor is operating at maximum flow levels, a head may develop, in which case overload conditions may still exist. Refer to Zurn flow control literature for orifice sizing under pressure head conditions.

VENTING

All Zurn oil interceptors must be vented to atmosphere and are furnished with vent connections of 1-1/4" or 1-1/2" IPS on both the right- and left-hand side of the interceptor as specified to suit the installation. If necessary, the vent connection can be changed from one side to the other at the time of installation.

The vent connections are located above the adjustable gravity oil draw-off standpipe and in the intercepting chamber on the upstream side of the trap seal. Thus, the volatile gases rising from the intercepted substances are carried from the interceptor to the atmosphere.

ADJUSTABLE DRAW-OFF (Z1186 and Z1188)

The Zurn oil interceptor is furnished with a 1-1/2" IPS adjustable oil draw-off assembly. This draw-off can be furnished on either the right- or left-hand side of the interceptor. The oil draw-off consists of an adjustable pipe combination on the inside of the intercepting chamber, and a pipe connection from the internal adjustable standpipe of the side of the oil interceptor body to connect to an oil drain line from the oil interceptor to an oil storage tank. The adjustable standpipe can be raised or lowered inside the interceptor chamber to the proper height for draining off the separated oils and similar light density substances that have separated and floated to the surface of the interceptor chamber.

Thus, after the oils and other substances have been accumulated in the interceptor, they can be drained from the interceptor chamber by gravity flow through the internal standpipe. The standpipe is adjusted so that the opening is located at the top of the water flow level in the interceptor chamber and at the bottom of the intercepted substances floating on the top surface of the interceptor. There is no need to manually skim or dip out the oil, since the oil will drain off by gravity flow through the adjustable draw-off standpipe after it has been properly adjusted and tightened.

HOW TO SET ADJUSTABLE DRAW-OFF (Z1186 and Z1188)

The Zurn oil interceptor should be completely installed and all connections made, including the adjustable draw-off.

Clean water is then run through the oil interceptor at the gallons per minute rate of flow of the size of the interceptor. This establishes the operating water level. This water level is marked on the inside of the intercepting chamber.

The marking of the operating water line must be done while the flow is going through the interceptor. If the mark is established at the static water line, excess amounts of water will enter the gravity draw-off sleeve when the flow rate through the interceptor increases to its rated capacity, in which case the draw-off sleeve would become submerged.

The adjustable sleeve in the draw-off standpipe should be set so that the top of the sleeve is 1/8" above the operating water level mark.

After the oil interceptor is put in operation and a film of oil and low density substances has accumulated at the surface, the adjustable draw-off setting should be checked by taking samples while the oil interceptor is in operation. If the sleeve is properly set, no water will drain off with the oil, and the adjustable sleeve should be moved up or down until only oil and no water comes through the draw-off standpipe.

