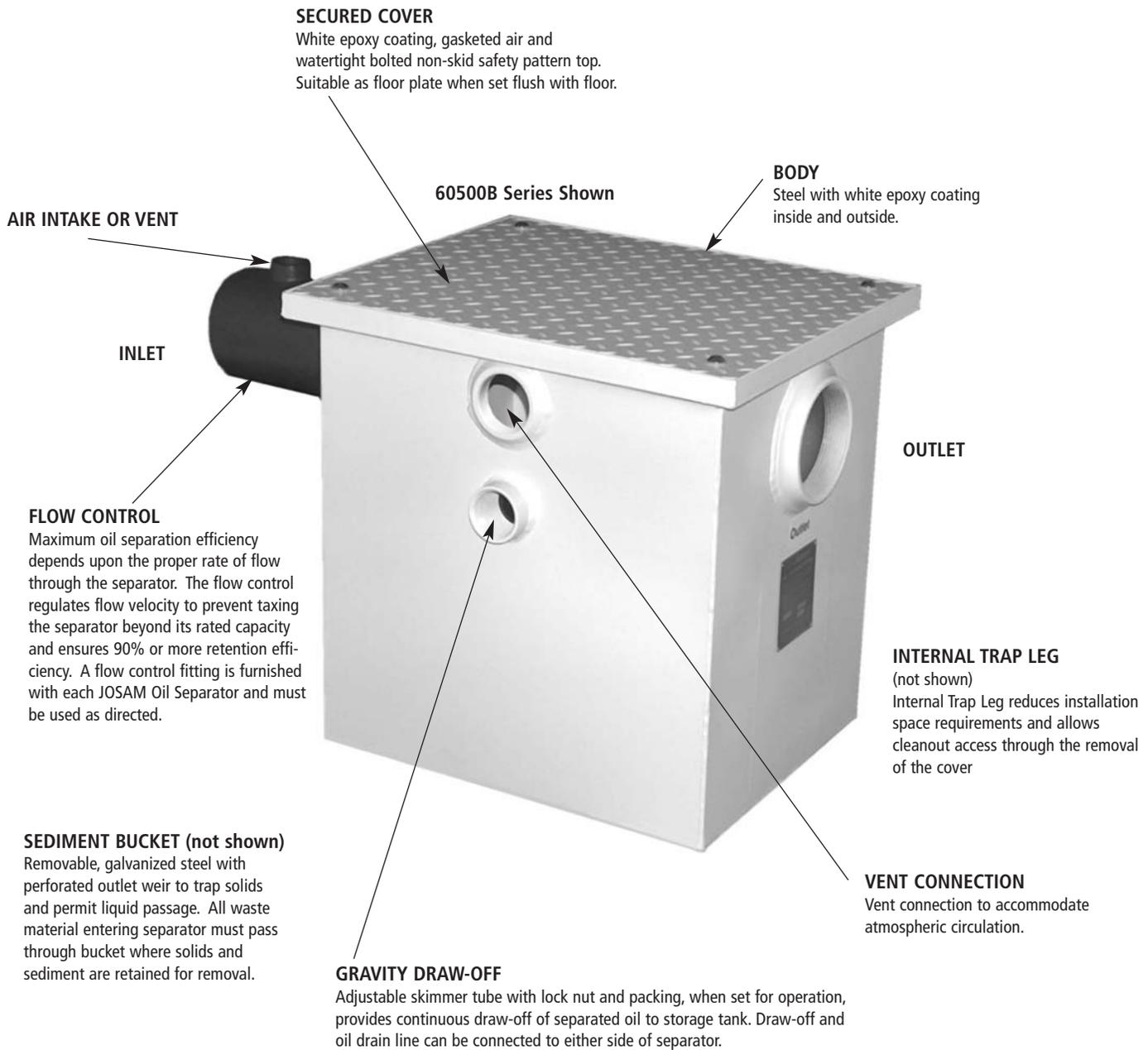


# OIL SEPARATORS

## Features

### AN IMPORTANT STEP IN PREVENTING POLLUTION FOR COMMERCIAL AND INDUSTRIAL SERVICE

JOSAM Oil Separators solve the majority of oil and hazardous waste interception and handling problems at the source. Years of research, experimentation and actual field experience have been applied by JOSAM to the design and development of the oil separators covered in this section. The paramount objective of an oil separator is to intercept and separate oils from wastewater, and after this has been accomplished, to provide an efficient means of directing the intercepted materials to storage and disposal facilities. JOSAM Oil Separators do just that with 90% plus retention efficiency. Features of the 60500B and 60610A Series are covered below. The same features with the addition of extended tops are available with the -EXT option.



JOSAM Oil Separators are produced in steel to rigid specifications with strict quality control.

# OIL SEPARATORS

## Sizing and Selection

### SIZING PROCEDURE

The selection of an oil separator depends on the specific features desired and the size of separator required. The size of separator required is based on the peak waste water flow that can be discharged from the fixtures and equipment to be served.

The peak waste water flow to be handled by the proposed piping system must be estimated in gallons per minute (GPM). After the required flow has been determined, refer to the Oil Separator Selection Table and compare the required flow rate with the flow rates shown in the table.

### EXAMPLE

The car wash piping system in a service station must handle an estimated peak flow of 20 GPM. The Oil Separator Selection Table shows that either the 60505B, the 60505B-EXT or the 60505-EST Separator, all rated at 20 GPM, can fulfill this requirement. It is only necessary to decide which of the three separators is best suited for the proposed installation.

Consider an example for a more extensive piping system: A processing operation has an estimated peak flow rate of 300 GPM. The Oil Separator Selection Table shows that the 60616A, the 60616A-EXT or the 60616-EST Separator, rated at 350 GPM, can handle the requirement. Sizing a horizontal waste line depends on the specific pipe material and the required pipe slope. The Horizontal Pipe Flow Table indicates the approximate GPM flow rates at various slopes that can be handled by cast iron or galvanized steel pipe.

| OIL SEPARATOR SELECTION TABLE |               |                              |
|-------------------------------|---------------|------------------------------|
| Series                        | Flow Rate GPM | Inlet & Outlet Size (Inches) |
| 60503B, 60503B-EXT, 60503-EST | 10            | 2                            |
| 60504B, 60504B-EXT, 60504-EST | 15            | 2                            |
| 60505B, 60505B-EXT, 60505-EST | 20            | 3                            |
| 60506B, 60506B-EXT, 60506-EST | 25            | 3                            |
| 60507B, 60507B-EXT, 60507-EST | 35            | 3                            |
| 60508B, 60508B-EXT, 60508-EST | 50            | 3                            |
| 60611A, 60611A-EXT, 60611-EST | 75            | 3                            |
| 60612A, 60612A-EXT, 60612-EST | 100           | 4                            |
| 60613A, 60613A-EXT, 60613-EST | 150           | 4                            |
| 60614A, 60614A-EXT, 60614-EST | 200           | 5                            |
| 60615A, 60615A-EXT, 60615-EST | 250           | 5                            |
| 60616A, 60616A-EXT, 60616-EST | 350           | 6                            |
| 60617A, 60617A-EXT, 60617-EST | 500           | 6                            |

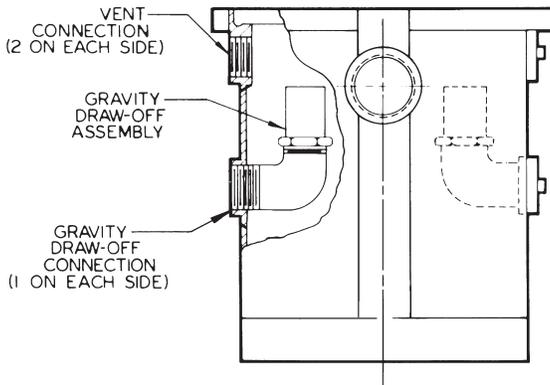
NOTE: Larger capacity separators can be fabricated in accordance with specified requirements. Further information is available from your local JOSAM Representative.

| HORIZONTAL PIPE FLOW, GPM |                              |     |     |
|---------------------------|------------------------------|-----|-----|
| Pipe Size (Inches)        | Pipe Slope (Inches per Foot) |     |     |
|                           | 1/8                          | 1/4 | 1/2 |
| 2                         | 12                           | 16  | 24  |
| 3                         | 34                           | 48  | 69  |
| 4                         | 78                           | 110 | 157 |
| 5                         | 139                          | 197 | 278 |
| 6                         | 223                          | 315 | 446 |

# OIL SEPARATORS

## Typical Installations

Installations and diagrams below show various components and suggested methods used when installing JOSAM Oil Separators. All installations are subject to government and local code requirements.



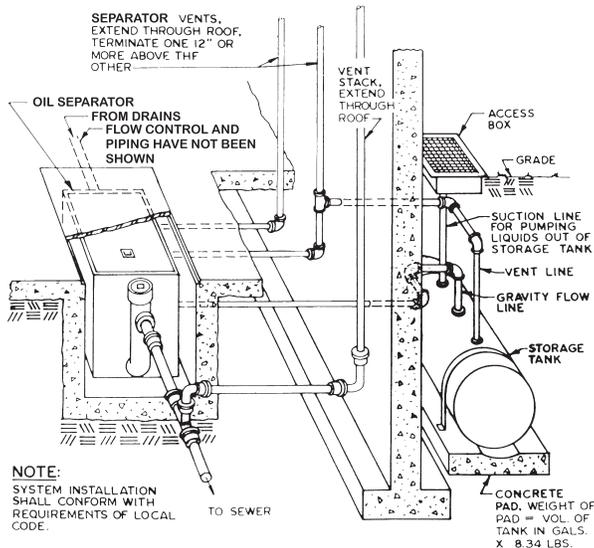
Gravity Draw-Off for Oil Separator

### GRAVITY DRAW-OFF

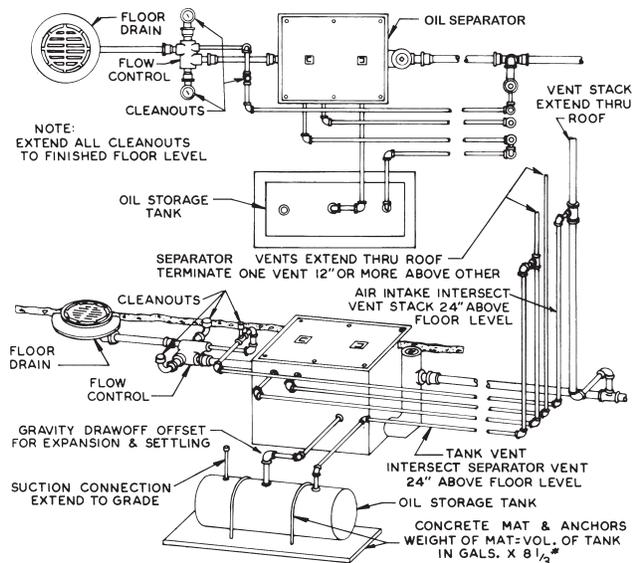
Every JOSAM Oil Separator is equipped with an internal gravity draw-off assembly having an adjustable skimmer tube and a threaded pipe connection through the side wall of separator body. This assembly can be mounted on either side to accommodate installation requirements. The piping to oil storage tank is connected to the draw-off. Typical installations are shown below.

### SETTING THE GRAVITY DRAW-OFF TUBE

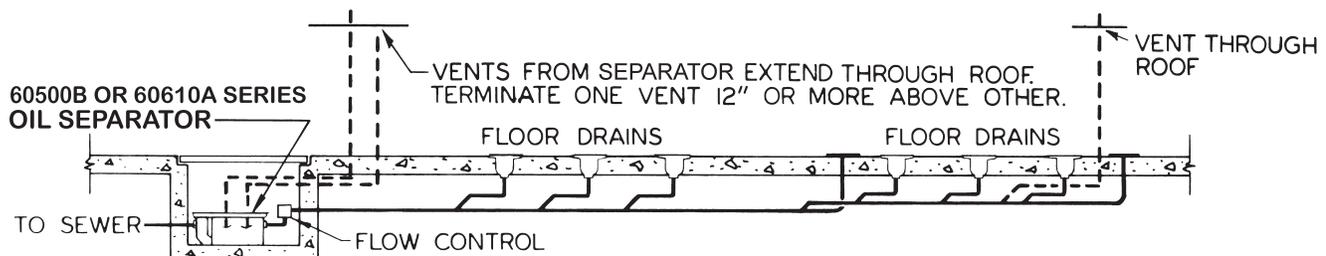
After separator is completely installed and ready for operation, run clean water through the unit at the anticipated operational flow rate and mark the operating water level. Set skimmer tube with top 1/8" above operating water level. During normal operation a film of oil will be on the water surface with all excess oil skimmed and drawn-off to a storage facility. When the tube is properly set water will not be drawn off with oil.



Typical arrangement of separator, draw-off piping, venting and oil storage facility.



Oil separator recessed flush with floor, servicing a floor drain. Flow control is installed with cleanouts to facilitate servicing.



Oil separator and flow control installed in pit, servicing a battery of floor drains.