

Specifying the Proper Length 53VML or 30MV Series Ball-Float

Step 1: Determine Dimension "X": Consult the tank chart (provided by the tank manufacturer) to determine the distance that corresponds to 10% of the total tank capacity for 53VML or 308 gallons for 30MV.

Step 2: Determine Dimension "Y": Measure the dimension from the inside top of the tank to the top of the 4" threaded tank "bung" fitting.

Step 3: Add measurements "X" and "Y". Then subtract 1/4" and round up to the nearest length ball-float.

Tank Ullage Calculator

- ◆ 30 minutes x 5GPM = 150 gallons
- ◆ Ullage-compression rate* is 27% after the ball seats
- ◆ 150 gallons ÷ .73 (1- ullage-compression rate) = 205.48 gallons
- ◆ 205.48 x 1.5 (OPW recommended safety factor) = 308.22 gallons
- ◆ Approximately 308 gallons required ullage

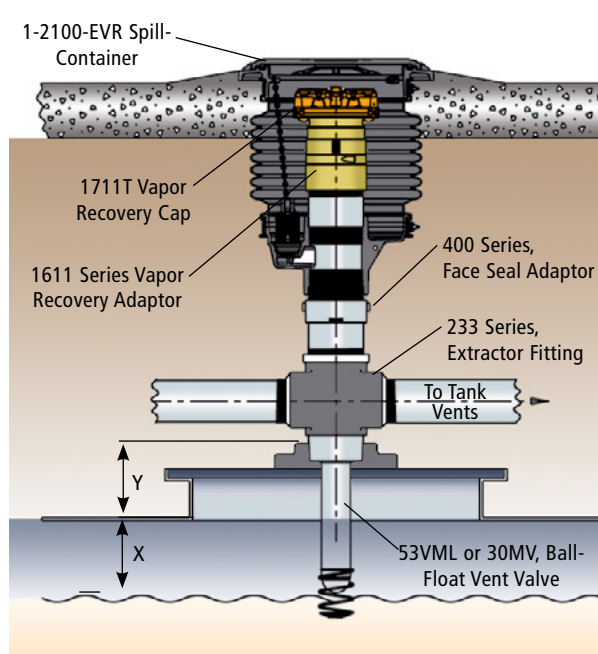
*Ullage-compression rate will vary with head pressure.

OPW 53VML and 30MV Ball-Float Sizing/OPW 89 Extractor Wrench

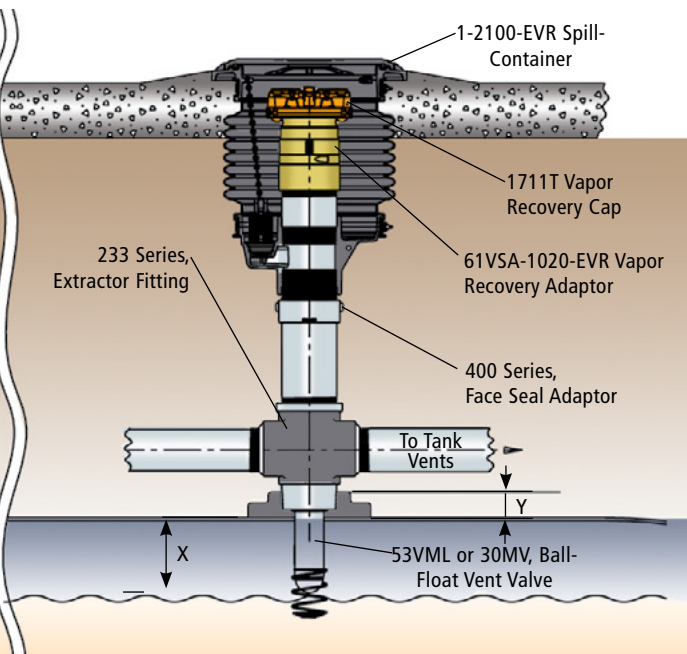
IMPORTANT:

Installing the incorrect-length OPW 53VML or 30MV Ball-Float Vent Valve for your specific application may result in delivery flow restriction at unacceptable levels. Always consult the appropriate tank charts and determine the specifics of your tank installation to determine the appropriate length OPW 53VML or 30MV. The illustration and instructions below are intended to serve as a guide in this determination.

Tank Manway Mounted Extractor

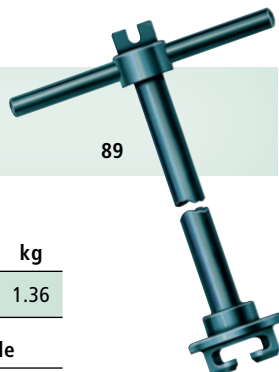


Tank Top Mounted Extractor



Materials

Pipe: Extra-heavy black iron
Handle and Hook: Ductile iron



OPW 89 Extractor Wrench

The OPW 89 Extractor Wrench is designed to install or remove OPW 53VML and 30MV Ball-Float Vent Valves or OPW 233VP and 233VMP Test Plugs in OPW 233, 233V, and 233VM Extractor Fittings. The 89 is also designed to work with the cage assemblies on the 233E Suction-Tube Extractor Fitting and 88E Extractable Angle Check Valve in suction-system applications. The 89 wrench consists of a 4" section of pipe welded to a "T" handle with a 2" hook section. The 2" hook section mates with current OPW ball-floats and extractable cages.

Ordering Specifications

Product #	in.	mm	lbs.	kg
89-0044	2	51	3	1.36

Size	Wrench	Product Compatible
2"	89-0044	233E, 88E Series