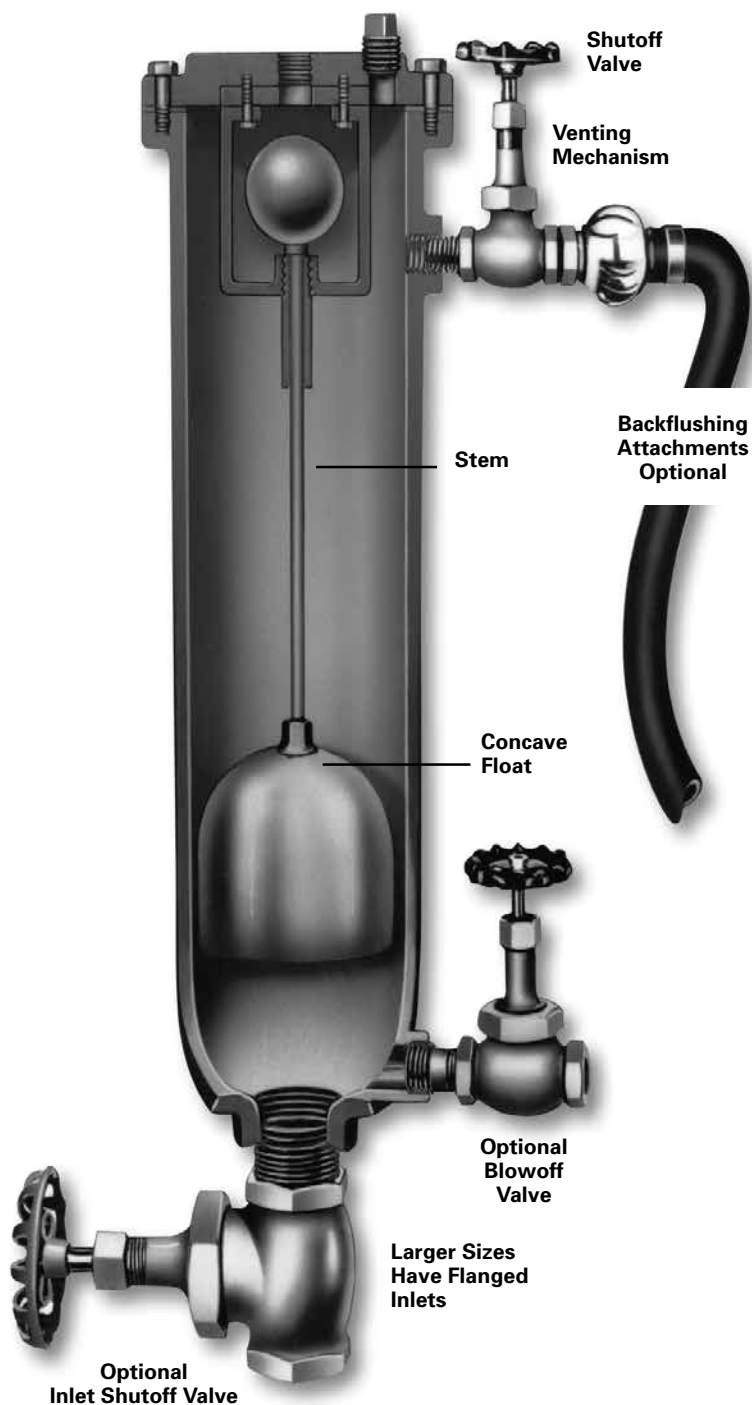


Sewage Air/Vacuum Valve - Series 401



Series 401 and larger Model APCO Sewage Air/Vacuum Valves are specifically designed for operation on sewage and waste media.

Air/Vacuum Valves are needed to vent large volumes of air when the sewage line is filled and allow air to re-enter when draining, to prevent vacuum or column separation occurring. Sewage Air/Vacuum Valves utilize two floats, each connected to a common stem which is guided through a bushing.

The upper float shuts off instantaneously against the seat, due to the impact zone and lifting force of the much larger concave bottom float, as sewage media enters the valve body.

Once closed, and pressurized, the Air/Vacuum Valve will not open to release air. It will open under negative pressure allowing air to re-enter and prevent vacuum from forming in the line.

Dimensions and Specifications

Series 401 Sewage Air Vacuum Valve

Model	Size		Height		Major Dia.	Weight	
	Inlet	Outlet	Valve	w/Attachments		Plain	w/Attachments
401	<u>2" NPT</u> 50	<u>1" NPT</u> 25	<u>16.25"</u> 413	<u>20"</u> 508	<u>7"</u> 178	<u>41</u> 19	<u>55</u> 25
402	<u>2" NPT</u> 50	<u>2" NPT</u> 50	<u>19.75"</u> 502	<u>23.5"</u> 597	<u>9.5"</u> 241	<u>85</u> 39	<u>115</u> 52
403	<u>3" NPT</u> 80	<u>3" NPT</u> 80	<u>19.75"</u> 502	<u>23.75"</u> 603	<u>9.5"</u> 241	<u>85</u> 39	<u>118</u> 54
404	<u>4" NPT</u> 100	<u>4" Plain</u> 100	<u>30"</u> 762	<u>35.25"</u> 895	<u>12"</u> 305	<u>130</u> 59	<u>200</u> 91
406	<u>6" FLG</u> 150	<u>6" Plain</u> 150	<u>32.5"</u> 826	<u>36.5"</u> 927	<u>16"</u> 406	<u>190</u> 86	<u>290</u> 132
408	<u>8" FLG</u> 200	<u>8" Plain</u> 200	<u>36"</u> 914	<u>40"</u> 1016	<u>18"</u> 457	<u>310</u> 141	<u>430</u> 195
410	<u>10" FLG</u> 250	<u>10" Plain</u> 250	<u>41"</u> 1041	<u>45"</u> 1143	<u>20"</u> 508	<u>600</u> 272	<u>800</u> 363
412	<u>12" FLG</u> 300	<u>12" Plain</u> 300	<u>47"</u> 1194	<u>53.5"</u> 1359	<u>25"</u> 635	<u>750</u> 340	<u>980</u> 445
414	<u>14" FLG</u> 350	<u>14" Plain</u> 350	<u>51.5"</u> 1308	<u>57.25"</u> 1454	<u>29"</u> 737	<u>950</u> 431	<u>1230</u> 558

Inch
Millimeter

Pounds
Kilograms

4" (100mm) and larger flanged outlets available.

Specify APCO with Confidence - Sewage Air/Vacuum Valve Series 401

Sewage Air/Vacuum Valves shall allow unrestricted venting or re-entry of air through it during filling or draining of the force main to prevent vacuum. The Sewage Air/Vacuum Valve shall incorporate (2) stainless steel floats directly connected by a stainless steel stem, to maintain an air gap between the bottom concave float and top shut-off float. The air gap shall retard waste solids from fouling or clogging the top shut-off float. The internal baffle shall be fitted with a guide bushings and act to protect the shut-off float from direct air flow. The baffle shall retain the Buna-N seat in place, without distortion for tight shut-off.

All internals shall be easily removed thru the top cover without removing the main valve from the line. The complete valve shall withstand 500 psi (3447 kpa) test. Optional - Inlet and blow off valves, quick disconnect couplings and minimum 5' (1.5m) hose for flushing. Engineer to specify.

The valve manufacturer shall furnish professionally printed installation and maintenance instruction manuals with each valve.

Materials of construction shall be certified the following ASTM specifications:

Body, Cover and Baffle

Cast Iron

ASTM A126 GR.B

Ductile Iron

ASTM A536 GR 65-45-12

Upper Float

Stainless Steel

ASTM A240

Patented Concave Lower Float

Stainless Steel

ASTM A240 T304

Stem, Guide Bushing

Stainless Steel

Series T300

Seat

Buna-N

Nitrile Rubber

Exterior Paint

Universal Metal Primer

FDA Approved for Potable Water