



Bell & Gossett® TPV – Tank Purge Valve

for Non-Potable Water



Combination full port shut-off valve and drain valve used to connect an expansion tank to the system.

- Isolate the tank from the system
- No need to drain the system when:
 - Servicing or replacing the tank
 - Checking tank pressure
- Sizes available: 1/2" through 2" NPT and Sweat connections
- Can be used on Bell & Gossett "B" and "D" Expansion Tanks



TPV – Tank Purge Valve

Operating Data

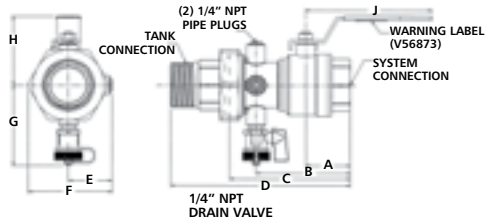
Maximum working pressure. 400 psig (2,758 kPa)

Maximum operating temperature -4° F (-20°C) to 250° F (121° C)

Materials of Construction

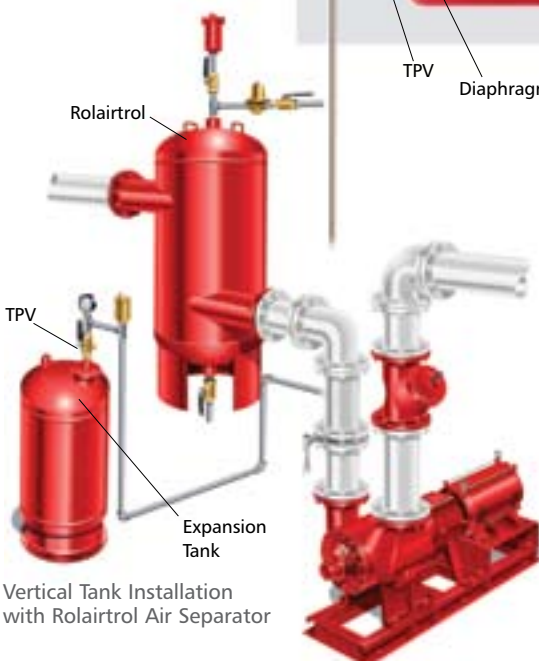
Valve Body. Brass
 Ball Chrome Plated
 Ball Seal. Teflon®*
 Stem Explosion Proof
 O-Rings EPDM

*Teflon is a registered trademark of E.I. du Pont de Nemours and Company



These valves are not recommended to be used on potable water tanks.

Horizontal Tank Installation with Rolairtrol Air Separator



Vertical Tank Installation with Rolairtrol Air Separator

Description

Combination full port shut-off valve and drain valve used to connect an expansion tank to the system. It is important that the pre-charge in an expansion tank be maintained at the proper pressure at all times. This pressure is the lowest system operating pressure. When the tank's pressure is adjusted, there should be no system liquid in it. This pre-charge should be checked and adjusted when:

- Tank is first installed
- If system is started or operating with the incorrect tank pre-charge
- Annually to assure proper pre-charge pressure at all times

The TPV (Tank Purge Valve) is ideal for this as the tank can be isolated from the system, drained and the pre-charge checked and adjusted without draining or shutting down the system.

The TPV also serves as a service valve should the tank need to be removed or have the bladder changed. These valves are furnished standard with a drain valve with a standard 5/8" hose connection.

| Model Number | Part Number | System Connection | Tank Connection | Dimensions* Inch (mm) | | | | | | | | | | Approx. Weight Lbs. |
|--------------|-------------|-------------------|-----------------|-----------------------|--------------|--------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|---------------------|
| | | | | A | B | C | D | E | F | G | H | J | | |
| TPV-1/2SF | 113226 | 1/2" Female SWT | 1/2" Female NPT | 1.67 (42.4) | 2.25 (57.2) | 3.15 (80.0) | 3.82 (97.0) | 0.84 (21.3) | 1.60 (40.6) | 2.36 (59.9) | 1.75 (44.5) | 3.34 (84.8) | 1.0 (0.5) | |
| TPV-1/2FF | 113227 | 1/2" Female NPT | 1/2" Female NPT | 1.19 (30.2) | 2.00 (50.8) | 2.90 (73.7) | 3.55 (90.4) | 0.84 (21.3) | 1.60 (40.6) | 2.36 (59.9) | 1.75 (44.5) | 3.34 (84.8) | 1.0 (0.5) | |
| TPV-1/2SM | 113228 | 1/2" Female SWT | 1/2" Male NPT | 1.29 (32.2) | 2.25 (57.2) | 3.15 (80.0) | 4.73 (120.1) | 0.84 (21.3) | 1.60 (40.6) | 2.36 (59.9) | 1.75 (44.5) | 3.34 (84.8) | 1.0 (0.5) | |
| TPV-1/2FM | 113229 | 1/2" Female NPT | 1/2" Male NPT | 1.06 (26.9) | 2.00 (50.6) | 2.90 (73.7) | 4.47 (113.6) | 0.84 (21.3) | 1.60 (40.6) | 2.36 (59.9) | 1.75 (44.5) | 3.34 (84.8) | 1.0 (0.5) | |
| TPV-3/4SF | 113230 | 3/4" Female SWT | 3/4" Female NPT | 1.67 (42.4) | 2.85 (72.4) | 3.72 (94.5) | 4.53 (115.1) | 1.06 (26.9) | 1.95 (49.5) | 2.66 (67.6) | 1.89 (48.0) | 3.50 (88.9) | 1.24 (0.6) | |
| TPV-3/4FF | 113231 | 3/4" Female NPT | 3/4" Female NPT | 1.19 (30.2) | 2.50 (63.5) | 3.26 (82.8) | 4.06 (103.1) | 1.06 (26.9) | 1.95 (49.5) | 2.66 (67.6) | 1.69 (48.0) | 3.50 (88.9) | 1.24 (0.6) | |
| TPV-3/4SM | 113232 | 3/4" Female SWT | 3/4" Male NPT | 1.67 (42.4) | 2.85 (72.4) | 3.72 (94.5) | 5.50 (140.0) | 1.06 (26.9) | 1.95 (49.5) | 2.66 (67.6) | 1.69 (48.0) | 3.50 (88.9) | 1.25 (0.6) | |
| TPV-3/4FM | 113233 | 3/4" Female NPT | 3/4" Male NPT | 1.19 (30.2) | 2.50 (63.5) | 3.26 (82.8) | 5.03 (127.6) | 1.06 (26.9) | 1.95 (49.5) | 2.66 (67.6) | 1.69 (48.0) | 3.50 (88.9) | 1.25 (0.6) | |
| TPV-1SF | 113234 | 1" Female SWT | 1" Female NPT | 1.95 (49.5) | 3.18 (80.6) | 4.14 (105.2) | 5.05 (126.3) | 1.23 (31.2) | 2.06 (52.3) | 2.71 (68.6) | 2.00 (50.8) | 4.00 (101.6) | 1.71 (0.8) | |
| TPV-1FF | 113235 | 1" Female NPT | 1" Female NPT | 1.46 (36.8) | 2.63 (66.5) | 3.60 (91.4) | 4.50 (114.3) | 1.23 (31.2) | 2.06 (52.3) | 2.71 (68.6) | 2.00 (50.8) | 4.00 (101.6) | 1.71 (0.8) | |
| TPV-1SM | 113236 | 1" Female SWT | 1" Male NPT | 1.95 (49.5) | 3.18 (80.6) | 4.14 (105.2) | 6.16 (156.5) | 1.23 (31.2) | 2.06 (52.3) | 2.71 (68.6) | 2.00 (50.8) | 4.00 (101.6) | 1.75 (0.8) | |
| TPV-1FM | 113237 | 1" Female NPT | 1" Male NPT | 1.45 (36.8) | 2.53 (60.8) | 3.60 (91.4) | 5.60 (142.2) | 1.23 (31.2) | 2.06 (52.3) | 2.71 (68.6) | 2.00 (50.8) | 4.00 (101.6) | 1.75 (0.8) | |
| TPV-1/4SF | 113238 | 1/4" Female SWT | 1/4" Female NPT | 2.13 (54.1) | 3.94 (100.1) | 5.14 (130.6) | 6.10 (154.9) | 1.34 (34.0) | 2.71 (68.8) | 2.96 (75.2) | 2.45 (62.2) | 4.50 (114.3) | 3.15 (1.5) | |
| TPV-1/4FF | 113239 | 1/4" Female NPT | 1/4" Female NPT | 1.55 (39.4) | 3.37 (85.6) | 4.56 (115.6) | 5.50 (139.7) | 1.34 (34.0) | 2.71 (68.8) | 2.96 (75.2) | 2.45 (62.2) | 4.50 (114.3) | 3.15 (1.5) | |
| TPV-1/4SM | 113240 | 1/4" Female SWT | 1/4" Male NPT | 2.13 (54.1) | 3.94 (100.1) | 5.14 (130.6) | 7.11 (180.6) | 1.34 (34.0) | 2.71 (68.8) | 2.96 (75.2) | 2.45 (62.2) | 4.50 (114.3) | 3.19 (1.5) | |
| TPV-1/4FM | 113241 | 1/4" Female NPT | 1/4" Male NPT | 1.55 (39.4) | 3.37 (85.6) | 4.55 (115.6) | 6.52 (165.6) | 1.34 (34.0) | 2.71 (68.8) | 2.96 (75.2) | 2.45 (62.2) | 4.50 (114.3) | 3.19 (1.5) | |
| TPV-1/2SM | 113242 | 1/2" Female SWT | 1/2" Male NPT | 2.54 (64.5) | 4.66 (118.4) | 5.90 (149.9) | 8.32 (211.3) | 1.85 (47.0) | 3.25 (82.6) | 3.38 (85.9) | 3.00 (76.2) | 5.30 (134.5) | 5.50 (2.5) | |
| TPV-1/2FM | 113243 | 1/2" Female NPT | 1/2" Male NPT | 1.91 (48.5) | 3.97 (100.8) | 5.12 (130.1) | 7.64 (194.1) | 1.85 (47.0) | 3.25 (82.6) | 3.38 (85.9) | 3.00 (76.2) | 5.30 (134.5) | 5.50 (2.5) | |
| TPV-2SM | 113244 | 2" Female SWT | 2" Male NPT | 2.89 (72.4) | 4.57 (116.1) | 6.80 (172.7) | 9.80 (248.9) | 2.00 (50.8) | 4.00 (101.6) | 3.52 (89.4) | 3.33 (84.6) | 6.12 (155.5) | 8.00 (3.63) | |
| TPV-2FM | 113245 | 2" Female NPT | 2" Male NPT | 2.06 (52.3) | 4.65 (118.1) | 5.85 (148.6) | 8.87 (225.3) | 2.00 (50.8) | 4.00 (101.6) | 3.52 (89.4) | 3.33 (84.6) | 6.12 (155.5) | 8.00 (3.63) | |

*All dimensions +/- 0.125 (3.2 mm) tolerance. Dimensions are subject to change. Not to be used for construction purposes unless certified.



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