

Fig. 749 Pressure Vacuum Vents

Specification Sheet

The Fig. 749 Vent valve is used on underground & low volume aboveground tanks for motor fueling. The vent allows the tank to “breathe” during filling/dispensing operations. Poppets seal vapors in the tank when pressure is equalized. Settings are approximate. Fig. 749CRB0500 offers C.A.R.B. approval for Stage I vapor recovery systems. Fig. 749CRB0600 and 749CRBS600 offer C.A.R.B. approval for Stage I & II vapor recovery systems.

WARNING: Fig. 749 pressure/vacuum vents must only be used in conjunction with motor fueling and/or low capacity flow. Fluid handling in lines larger than that used for retail service station can cause tank to rupture or implode.

SPECIFICATION OPTIONS:

I.D. NUMBER	A	B	C	D	E	Height	Weight	S.C.F.H.
749---0100 AV	2N	8oz.	½ oz.	M	N	4.33	1	6200 @ 20oz./in.sq.
749CRB0500 AV	2N	8oz.	5oz.	V	Y	4.33	1.45	6200 @ 20oz./in.sq.
749---0200 AV	2N	12oz.	½ oz.	M	N	4.33	1	7500 @ 25oz./in.sq.
749CRB0600 AV	2N	3"	8"	V	Y	4.33	1.45	3800 @ 8.5" H2O
749S--0100 AV	2S	8oz.	½ oz.	M	N	4.33	1	6200 @ 20oz./in.sq.
749S--0200 AV	2S	12oz.	½ oz.	M	N	4.33	1	7500 @ 25oz./in.sq.
749BSP0100 AV	2B	8oz.	½ oz.	M	N	4.33	1	6200 @ 20oz./in.sq.
749BSP0200 AV	2B	12oz.	½ oz.	M	N	4.33	1	7500 @ 25oz./in.sq.
749CRBS600 AV	2S	3"	8"	V	Y	4.33	1.45	3800 @ 8.5" H2O
749---1100 AV	3N	8oz.	½ oz.	M	N	5.91	1.55	6200 @ 20oz./in.sq.
749---1200 AV	3N	12oz.	½ oz.	M	N	5.91	1.55	7500 @ 25oz./in.sq.
749CRB1500 AV	3N	8oz.	5oz.	V	Y	5.91	2	6200 @ 20oz./in.sq.
749CRB1600 AV	3N	3"	8"	V	Y	5.91	2	3800 @ 8.5" H2O
749S--1100 AV	3S	8oz.	½ oz.	M	N	6.28	1.65	6200 @ 20oz./in.sq.
749S--1200 AV	3S	12oz.	½ oz.	M	N	6.28	1.65	7500 @ 25oz./in.sq.
749CRBS1600 AV	3S	3"	8"	V	Y	6.28	2.1	3800 @ 8.5" H2O
749T--0200 AV	2S	8oz.	½ oz.	V	N	4.33	1	7500 @ 25oz./in.sq.

CHART KEY:

A— Body Connection: 2" N.P.T. (2N), 2" Slip-on style (2S), 2" BSP (2B), 3" N.P.T. (3N), or 3" Slip-on style (3S)
B—Pressure Setting: 8 oz./sq. in. (8Z) - Red Label, 12 oz./sq. in. (12Z) - Yellow Label or 3" Water Column (3") - Gold Label
C—Vacuum Setting: .5 oz./sq. in. (1/2Z), 5 oz./sq. in. (5Z) or 8" Water Column (8")
D—Pressure Seal: Metal/Metal Seat (M) or Metal/Viton O-ring Seat (V)
E—C.A.R.B. Approval: Yes/No (Y/N)
Height—Height: Dimension from base to top of vent
Weight—Shipping Weight

Body: Anodized Aluminum
 Pressure Poppet: Anodized Aluminum
 Vacuum Poppet: Brass
 Body Seal: Buna-N

Screen: 40 Mesh Brass
 Springs: Stainless Steel
 Screws: Zinc-Plated Steel



WARNING: DO NOT FILL OR UNLOAD FUEL FROM A STORAGE TANK UNLESS IT IS CERTAIN THAT THE TANK VENTS WILL OPERATE PROPERLY.

Morrison tank vents are designed only for use on shop fabricated atmospheric tanks which have been built and tested in accordance with UL 142, NFPA 30 & 30A, and API 650 and in accordance with all applicable local, state, and federal laws. In normal operation, dust and debris can accumulate in vent openings and block air passages. Certain atmospheric conditions such as a sudden drop in temperature, below freezing temperatures, and freezing rain can cause moisture to enter the vent and freeze which can restrict internal movement of vent mechanisms and block air passages. All storage tank vent air passages must be completely free of restriction and all vent mechanisms must have free movement in order to insure proper operation. Any restriction of airflow can cause excessive pressure or vacuum to build up in the storage tank, which can result in structural damage to the tank, fuel spillage, property damage, fire, injury, and death. Monthly inspection, and immediate inspection during freezing conditions, by someone familiar with the proper operation of storage tank vents, is required to insure venting devices are functioning properly before filling or unloading a tank.