

Introduction

Enardo™ 860 spring loaded pressure relief valves are designed to handle higher pressure settings than standard dead weight loaded valves. The valve is designed for pressures up to 15 psig for tanks with higher maximum allowable working pressures. The Enardo 860 is part of high performance pressure vacuum relief valves. The Enardo 860 was designed with features to exceed the performance of standard valves on the market.

Enardo 860 pipe away design maintains a tight seal until system pressure or vacuum exceed the set pressure of the valve. When overpressure occurs the spring loaded pallet lifts, breaking the seal between the seat and pallet, allowing vapors to pass through the valve orifice and relieving the pressure or vacuum buildup. The valve reseals upon relief and remains sealed.

Available Sizes

2 to 6 in. / 50 to 150 mm

Valve Setting Range

Pressure

0.5 to 15.0 psi (0.5 psi increments)
0.5 to 32.0 oz./sq. in. (0.5 oz increments)
1.0 to 55.0 in. w.c. (0.5 in. increments)
(2.0 to 138.0 mbar)

Vacuum

0.5 to 15.0 psi (0.5 psi increments)
0.5 to 32.0 oz/sq. in. (0.5 oz increments)
1.0 to 55.0 in. w.c. (0.5 in. increments)
(2.0 to 138.0 mbar)

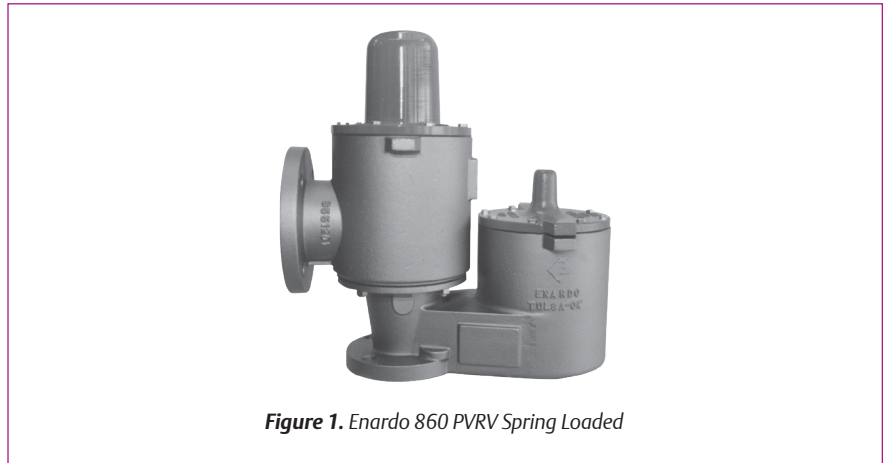


Figure 1. Enardo 860 PVRV Spring Loaded

Construction Materials

Housing

Aluminum
Stainless steel
Carbon steel

Seat/Pallet

Polyphenylene Sulfide (PPS)
316 Stainless steel (standard above 5 psi)

Pallet Seal

Buna-N, FEP Teflon® or Viton®

Hardware

Zinc-plated carbon steel
Stainless steel

Weight

Zinc-plated carbon steel
Stainless steel
Lead

Gasket

Buna-N, Teflon® or Viton®

Additional Technical Data

For more technical information, contact your local Sales Office or log on to:

www.enardo.com

Features

- **Advanced composite thermoplastic Polyphenylene Sulfide (PPS) materials for seat and trim provide superior resistance to corrosion, chemical attack, liquid and vapor adhesion, temperature extremes (-50 to 500°F) and sticking due to valve seat freeze.**
- **Enardo Saber® Guide valve system provides smooth valve stroke during operation and reduces valve wear.**
- **Leakage rate of no greater than 1 SCFH at 90% of setpoint.**
- **Excellent set point accuracy (+/-3%).**
- **Fully field replaceable pallet and seat assemblies.**
- **Available in ANSI, DIN and JIS flanges.**
- **EN 13463-1 and EN 13463-5 Certified.**

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Enardo 860

PVRV Spring Loaded

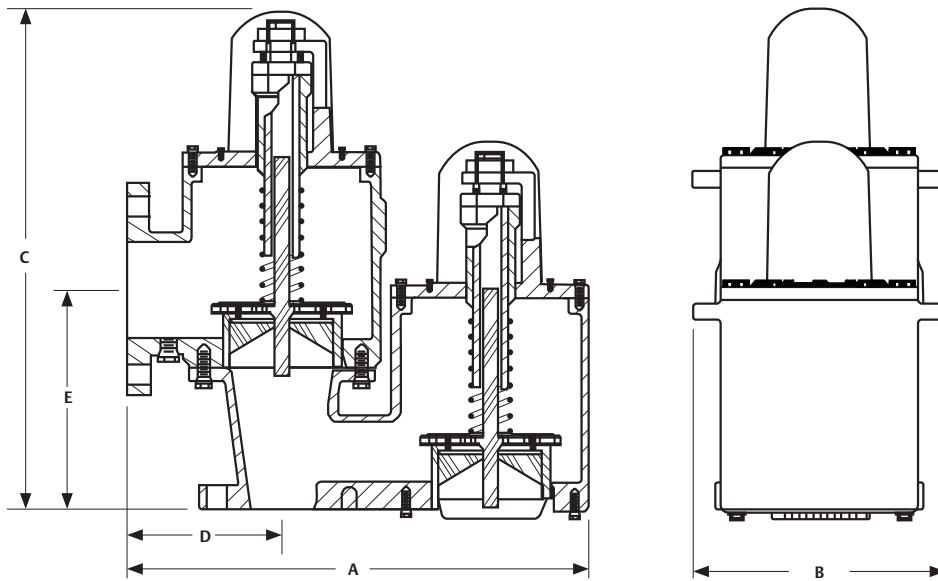


Figure 2. Enardo™ 860 Dimensions

Table 1. Enardo 860 Dimensions and Weight

MODEL	INLET CONNECTION		OUTLET CONNECTION		A OVERALL LENGTH		B OVERALL WIDTH		C OVERALL HEIGHT		D CL Inlet		E CL I/O		ALUMINUM UNIT ⁽¹⁾		CARBON STEEL UNIT ⁽¹⁾		STAINLESS STEEL UNIT ⁽¹⁾	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs	kg	Lbs	kg	Lbs	kg
Enardo 860	2	50	3	80	16-1/2	419	10	254	17-5/8	448	5-1/2	140	7-1/2	191	33	15	85	39	92	42
	3	80	4	100	16-1/2	419	10	254	18-1/8	460	5-11/16	144	8	203	38	17	95	43	104	47
	4	100	6	150	22-1/8	562	14	356	25-1/2	648	6-21/32	169	9-1/2	241	66	30	153	69	166	75
	6	150	8	200	24-3/8	619	14	356	27-3/8	695	8-5/8	219	13	330	80	36	190	86	205	93

1. Unit weights indicate Net Weight of valve in pounds at standard set pressure (0.5 oz./sq. in. pressure and 0.5 oz./sq. in. vacuum), does not include shipping crate or box. Add 20% for gross shipping weight (Domestic Only).

Key to Enardo 860 Model Number

ENARDO 860 - X - - / -

Inlet Connection Size
2 to 6 in.

Outlet Connection Size
3 to 8 in.

Housing Material
1 = Aluminum
2 = Stainless steel
3 = Carbon steel

Pallet and Seat Ring Material
1 = Advanced Composite-Polyphenylene Sulfide (PPS)
2 = 316 Stainless steel
3 = Other

Pallet Seal Material
1 = FEP Teflon®
2 = Buna-N
3 = Viton®
4 = Other

Pressure Settings
p = psig
z = oz./sq. in.
n = in. w.c.
0.5 to 15.0 psi (0.5 psi increments)
0.5 to 32.0 oz./sq. in. (0.5 oz./sq. in. increments)
1.0 to 55.0 in. w.c. (0.5 in. w.c. increments)

Vacuum Settings
p = psig
z = oz./sq. in.
n = in. w.c.
0.5 to 15.0 psi (0.5 psi increments)
0.5 to 32.0 oz./sq. in. (0.5 oz./sq. in. increments)
1.0 to 55.0 in. w.c. (0.5 in. w.c. increments)

Options
O = No Options
A = Special Coating
B = Stainless steel Weights
C = Optional Weight Material
D = Optional Hardware
E = Optional Gasket Material
F = Optional Fiber-Reinforced Plastic (FRP) Resins
G = Steam Jacket or Trace
H = Other

Example:

ENARDO 860 - X - - / -

Indicates a Pipe-Away pressure vacuum relief valve with 2 in. inlet by 3 in. outlet, ANSI 150 lb. flat face flange pattern connections, aluminum housing, stainless steel pallet and seat ring and FEP Teflon® pallet seal. Pressure setting is 10 psig and vacuum setting is 6 oz./sq. in. Options include special external epoxy coating of valve.

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