

Enardo ES-951

Enhanced Sealing High Performance Pressure Relief Valve - Top Mount

Introduction

Enardo™ ES-951 top mount pressure relief valves are designed to provide enhanced sealing and allow easier compliance with tightening environmental emission regulations and reduced operational costs due to lower fugitive emissions and increased product retention. This relief valve provides protection against positive overpressure, prevents air intake, evaporative loss of product, and helps contain odorous and potentially hazardous vapors.

Part of high performance line of pressure vacuum relief valves, the Enardo ES-951 was designed with features to exceed the performance of standard valves on the market.

Standard features include:

- The only dual guided (top and bottom) pallet for smoother valve stroke, less flutter and valve wear.
- Fully field replaceable pallet and seat assemblies without need for special tools or complex procedures which eliminates the need to send out for rebuilding or total valve replacement (Can be maintained by in house maintenance personnel).
- Optional Remote Monitoring provides open/closed position information that can be viewed from a control room to facilitate troubleshooting and immediate problem identification.
- All Enhanced Sealing improvements are completely backwards compatible with existing Enardo 951 valves via retrofit kits.

Available Sizes

2 to 12 in. / 50 to 300 mm

Valve Setting Range (Pressure)

2 to 6 in. size / 50 to 150 mm:

0.5 to 32.0 oz./sq.in.
(0.5 oz Increments)
1.0 to 55.0 in. w.c.
(0.5 in. Increments)
2.2 to 138.0 mbar
(2.2 mbar Increments)
25 to 1406 mm w.c.
(13 mm w.c. Increments)

8 to 12 in. / 200 to 300 mm:

0.5 to 24.0 oz./sq.in.
(0.5 oz Increments)
1.0 to 41.5 in. w.c.
(0.5 in. Increments)
2.2 to 103.0 mbar
(2.2 mbar Increments)
25 to 1055 mm w.c.
(13 mm w.c. Increments)

Construction Materials

Housing: Aluminum, Stainless steel or Carbon steel

Seat/Pallet: 316 Stainless steel

Pallet Seal: FEP, Nitrile (NBR), Fluorocarbon (FKM) or Fluorosilicone (FVMQ)

Hardware: Zinc-plated Carbon steel or Stainless steel

Weights: Zinc-Plated Carbon Steel, Stainless steel or Lead

Body Gasketing: Nitrile (NBR), FEP, Fluorocarbon (FKM) or Fluorosilicone (FVMQ)

Additional Technical Data

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

www.enardo.com



Figure 1. Enardo ES-951 Enhanced Sealing High Performance Pressure Relief Valve - Top Mount

Features

- **Enardo Saber® Guide valve system provides for smooth valve stroke during operation and reduces valve wear.**
- **Leakage rate of 0.1 SCFH at 90% of set point is 10 times lower than the industry standard of 1 SCFH at 90% for allowable leakage.**
- **Fully field replaceable pallet and seat assemblies.**
- **Available in ANSI, DIN and JIS flanges.**
- **Optional Remote Monitoring**
- **Retrofit kits available to upgrade existing valves to this Enhanced Sealing configuration**

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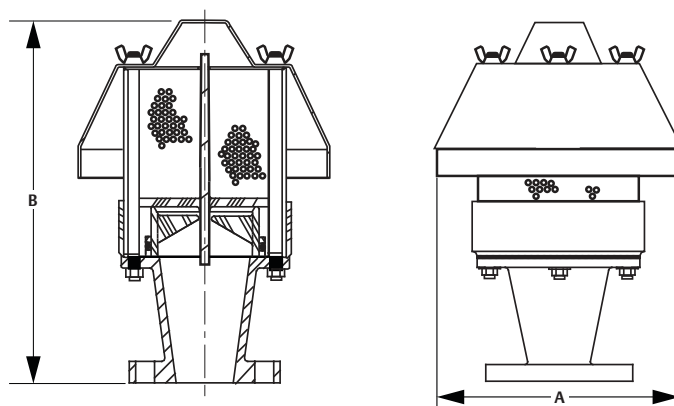


Figure 2. Enardo™ ES-951 Dimensions

Table 1. Enardo ES-951 Dimensions and Weights⁽¹⁾

INLET CONNECTION		A (OVERALL WIDTH)		B (OVERALL HEIGHT)		WEIGHT (ALUMINUM)		WEIGHT (DUCTILE IRON)		WEIGHT (STAINLESS STEEL)	
In.	mm	In.	mm	In.	mm	Lbs	kg	Lbs	kg	Lbs	kg
2	50	10	254	14-3/8	365	10	5	21	10	21	10
3	80	10	254	14-5/8	371	12	5	26	12	26	12
4	100	14	356	19-3/4	502	17	8	40	18	39	18
6	150	14	356	19-3/4	502	21	10	51	23	50	23
8	200	23	584	27-1/8	689	53	24	134	61	138	63
10	250	23	584	27-1/4	692	56	25	143	65	152	69
12	300	23	584	27-11/16	703	60	27	153	69	163	74

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

Key to Enardo ES-951 Model Number

Model	Inlet Size	Housing Material	Pallet and Seat Material	Pallet Seal Material
ES-951	2 to 12 in.	1 = Aluminum 4 = 316SST 5 = Carbon Steel	2 = 316SST	1 = FEP 2 = Nitrile (NBR) 3 = Fluorocarbon (FKM) 4 = Fluorosilicone (FVMQ)

Body/Seat/Lid Seal Material	Pressure Units ⁽¹⁾	Pressure Setting ⁽¹⁾	Weight Material	Options
1 = PTFE Body and FEP Seat/Lid 2 = Nitrile (NBR) 3 = Fluorocarbon (FKM) 4 = Fluorosilicone (FVMQ)	z = oz./sq.in. n = in. w.c. mm = mm w.c. mb = mbar	0.5 to 32.0 oz./sq.in. 1.0 to 55.0 in. w.c. 25 to 1406 mm w.c. 2.2 to 138 mbar	C = CS ZP S = SST L = Lead	0 = No Options F = Flat Face Flange (standard for Aluminum) R = Raised Face Flange (standard for CS, DI, SS) X = Epoxy Coating W2 = Wireless Pressure Monitoring Only W5 = Wired Pressure Monitoring Only

1. Refer to Valve Setting Range (Pressure) for pressure relief guidelines.

Example:

ES-951 — 2x3 — 1 2 3 3 — n 12 — C — 0

Indicates an enhanced sealing vent-to-atmosphere pressure relief valve with 2 in. inlet, ANSI 150lb flat face flange pattern connection, Aluminum housing, 316SST pallet and seat, FKM pallet seal and FKM body gasketing. Pressure setting is 12 in. w.c. Carbon steel weight material. No options.