

# Enardo 953

## High Performance Vacuum Relief Valve - Side Mount

### Introduction

Enardo™ 953 (side mount) vacuum relief valves are advanced design for vent-from-atmosphere applications. Utilizing the latest technologies, this relief valve provides protection against vacuum over pressure, prevents evaporative loss of product and helps contain odorous and potentially hazardous vapors.

Part of high performance line of pressure vacuum relief valves, the Enardo 953 was designed with features to exceed the performance of standard valves on the market. Unmatched features include Enardo Saber® Guide valve system and advanced composite Polyphenylene Sulfide (PPS) seat and trim for superior performance.

Standard features include:

- The only dual guided (top and bottom) pallet for smoother valve stroke, less flutter and valve wear
- Polyphenylene Sulfide (PPS), advanced composite thermoplastic material for seat and pallet providing superior resistance to corrosion, chemical attack, liquid and vapor adhesion, temperature extremes (-50 to 500°F) and sticking due to valve seat freeze
- 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)

\* Also available in spring-loaded design (Enardo 963).

### Available Sizes

2 to 12 in. / 50 to 300 mm



Figure 1. Enardo 953

### Valve Setting Range

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 mbar w.c. Increments)

### Construction Materials

**Housing:** Aluminum, Ductile iron, Stainless steel or Carbon steel  
**Seat/Pallet:** Polyphenylene Sulfide (PPS) or 316 Stainless steel  
**Pallet Seal:** FEP, Nitrile (NBR) or Fluorocarbon (FKM)  
**Hardware:** Zinc-plated Carbon steel or Stainless steel  
**Weights:** Zinc-Plated Carbon Steel, Stainless steel or Lead  
**Body Gasketing:** Nitrile (NBR), FEP or Fluorocarbon (FKM)

### Additional Technical Data

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

[www.enardo.com](http://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 for smooth valve stroke during operation and reduces valve wear.**
- **Exceeds the most stringent standards for allowable leakage (1 SCFH at 90% set point per valve) and provides excellent set point accuracy (+/-3%).**
- **Fully field replaceable pallet and seat assemblies.**
- **Available in ANSI, DIN and JIS flanges.**
- **EN 13463-1, EN 13463-5: Certified.**

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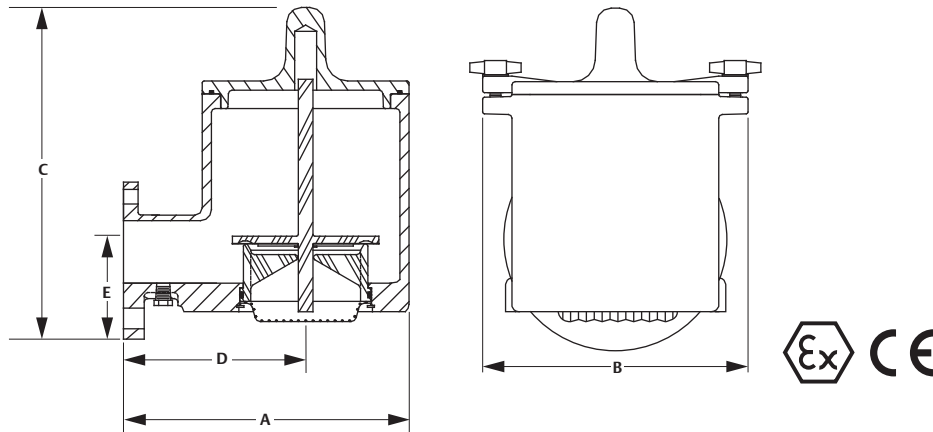


Figure 2. Enardo™ 953 Dimensions

Table 1. Enardo 953 Dimensions and Weights<sup>(1)</sup>

INLET CONNECTION		A (OVERALL LENGTH)		B (OVERALL WIDTH)		C (OVERALL HEIGHT)		D (CL TO EDGE)		E (CL I/V)		WEIGHT (ALUMINUM)		WEIGHT (DUCTILE IRON)		WEIGHT (STAINLESS STEEL OR CARBON STEEL)	
In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs	kg	Lbs	kg	Lbs	kg
3	80	9	229	9-1/8	232	10-1/8	257	5-1/2	140	3-3/4	95	13	6	41	19	44	20
4	100	19-1/4	235	9-1/8	232	10-1/8	257	5-11/16	144	4-1/2	114	14	6	48	22	51	23
6	150	11-3/8	289	11	279	13-1/4	337	6-11/16	170	5-1/2	140	25	11	73	33	78	35
8	200	13-1/4	337	13-3/4	349	13-1/4	337	5-5/8	143	6-3/4	171	33	15	82	37	91	41
10	250	18-5/8	473	16-1/8	410	19-3/4	502	10-1/2	267	8	203	73	33	180	82	----	----
12	300	20-1/8	511	19	475	19-3/4	502	12	305	9-1/2	241	85	39	211	96	----	----

1. Unit weights indicate Net Weight of valve in pounds at standard set 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 953 Model Number

<b>Model</b> 953	-	<b>Inlet Size</b> 3 to 12 in.	-	<b>Housing Material</b> 1 = Aluminum 2 = Ductile Iron 4 = SST 5 = Carbon Steel	-	<b>Pallet and Seat Material</b> 1 = PPS Polyphenylene Sulfide 2 = 316SST	-	<b>Pallet Seal Material</b> 1 = FEP 2 = Nitrile (NBR) 3 = Fluorocarbon (FKM)
<b>Body/Seat/Lid Seal Material</b> 1 = FEP 2 = Nitrile (NBR) 3 = Fluorocarbon (FKM)	-	<b>Pressure Units</b> z = oz./sq.in. n = in. w.c. mm = mm w.c. mb = mbar	-	<b>Pressure Setting</b> 0.5 to 32.0 oz./sq.in. 0.86 to 55.0 in. w.c. 22 to 1406 mm w.c. 2.2 to 138 mbar	-	<b>Weight Material</b> C = CS ZP S = SST L = Lead	-	<b>Options</b> 0 = No Options F = Flat Face Flange (standard for Aluminum) R = Raised Face Flange (standard for CS, DI, SS) X = Epoxy Coating

### Example:

953 — 3 — 1 1 1 2 — n 12 — C — 0

Indicates a vent-to-atmosphere vacuum relief valve with 3 in. inlet, ANSI 150 lb. flat face flange pattern connections, Aluminum housing, PPS Polyphenylene Sulfide pallet and seat, FEP pallet seal and Nitrile (NBR) lid seal. Vacuum setting is 12 in. w.c. Carbon steel weight material. No options.