

# Dump Valves DVU Series



## Features

- For Separators/Scrubbers to 2000 psi (13.8 MPa) [138 bar] Working Pressure
- Hex Union Allows Plug and Seat Replacement Without Piping Removal
- Operates on 30–70 psi (2.07–4.83 kPa) [2.07–4.83 bar] Control Pressure
- Compatible With Murphy Level Controls
- Soft Seat Valve
- Manual Valve Operator

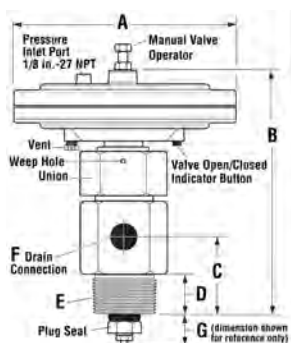
The DVU Series are pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a Murphy level controller and dump valve operator. Diaphragm actuated, the DVU series dump valves operate at 30–70 psi (2.07–4.83 kPa) [2.07–4.83 bar] and up to 2000 psi (13.8 MPa) [138 bar] vessel pressure (depending on the model).

A key benefit of this design is a hex union that provides the ability to replace the seat without removing the valve from piping.

## Application

Designed for gas compressor scrubbers, the DVU Series can be used to dump any liquids compatible with its materials of construction.

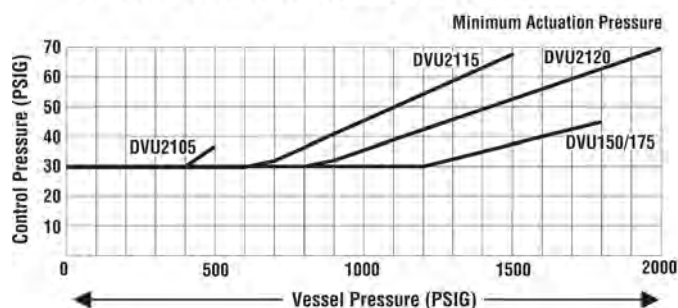
## Dimensions



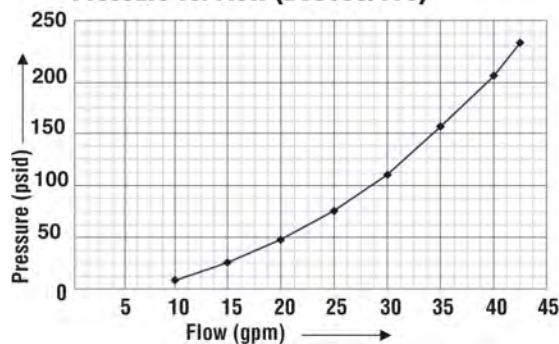
Model	DVU2120	DVU2115	DVU2105	DVU175	DVU150
A	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)
B	8.0 (203)	8.0 (203)	8.0 (203)	6.75 (171)	6.75 (171)
C	2.75 (70)	2.75 (70)	2.75 (70)	2.06 (52)	2.06 (52)
D	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)
E	2-11.5 NPT	2-11.5 NPT	2-11.5 NPT	1-11.5 NPT	1-11.5 NPT
F	1-11.5 NPT	1-11.5 NPT	1-11.5 NPT	3/4"-14 NPT	1/2"-14 NPT
G	1.03	1.03	1.03	1.03	1.03

NOTE: Dimensions are in inches and (millimeters).

**Control Pressure vs. Working Pressure**



**Pressure vs. Flow (DVU150/175)**



# Specifications

**Operating Temperature:** -30 to 250°F (-34.4 to +121°C)

**Valve Operating Pressure:** See chart (bottom pg 1).

**Maximum Working Pressure:**

DVU150 and DVU175: 1800 psi (12.4 MPa) [124 bar].

DVU2105: 500 psi (3.44 MPa) [34 bar].

DVU2115: 1500 psi (10.3 MPa) [103 bar].

DVU2120: 2000 psi (13.8 MPa) [138 bar].

# Replacement Parts

Part No.	Description
<b>DVU2120</b>	
55-00-0237	Seal Kit (includes plug)
55-00-0236	Diaphragm Kit
55-00-0255	Seal Kit (less seat)
<b>DVU2115</b>	
55-00-0241	Seal Kit (includes plug)
55-00-0240	Diaphragm Kit
55-00-0255	Seal Kit (less seat)
<b>DVU2105</b>	
55-00-0245	Seal Kit (includes plug)
55-00-0244	Diaphragm Kit
55-00-0255	Seal Kit (less seat)
<b>DVU175</b>	
55-00-0230	Seal Kit (includes plug)
55-00-0231	Diaphragm Kit
55-00-0255	Seal Kit (less seat)
<b>DVU150</b>	
55-00-0230	Seal Kit (includes plug)
55-00-0231	Diaphragm Kit
55-00-0255	Seal Kit (less seat)

**Body Material:** Electroless Nickel Plated 12L14 Carbon Steel.

**Internal Wetted Parts:**

**Plug Seal:** 90 Durometer Urethane.

**Other:** 303 stainless steel; Electroless Nickel Plated 12L14 Carbon Steel.

<b>DVU150</b>	
55-00-0230	Seal Kit (includes plug)
55-00-0231	Diaphragm Kit
55-00-0255	Seal Kit (less seat)

**Typical Seal Kit includes:** Nut, Washer (1 to 3), "O" Ring, Plug and Seal, Seat, Crush Washer.

**Typical Seal Kit without seat includes:** PN 55-00-0255 Seal kit, DVU 150/175 (less seat) Note: 10 each of included parts for bulk repairs.

**Typical Diaphragm Repair Kit includes:** Diaphragm, Diaphragm Washer (upper), Diaphragm Nut, Diaphragm Plate (1 or 2 pcs), Packing, "O" Ring, Stem, Seal Washer for Maintenance Bolt.

**Shipping Weights**

DVU150 and DVU175: 9 lbs. (4 kg.)

DVU150SS and DVU175SS: 9 lbs. (4 kg.)

DVU2105, DVU2115, DVU2120: 14 lbs. (6.4 kg.)

**Shipping Dimensions**

8 x 8 x 12 in. (203 x 203 x 305 mm.)

# Scrubber Level Systems (SLS)

(Includes LS200, LS200NDVOR and DVU valve)

**SLS2120:** Includes DVU2120 valve

**SLS2115:** Includes DVU2115 valve

**SLS2105:** Includes DVU2105 valve

**SLS175:** Includes DVU175 valve

**SLS150:** Includes DVU150 valve

-LR: Less Regulator option

(Includes MSL-020, LS200NDVOR and DVU valve)

**MSLS2120:** Includes DVU2120 valve

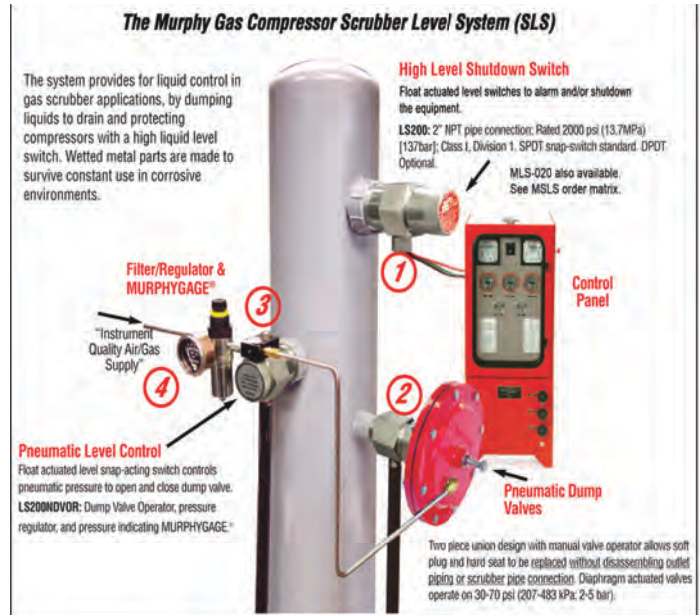
**MSLS175:** Includes DVU175 valve

**MSLS150:** Includes DVU150 valve

-LR: Less Regulator option

**How to Order** Specify model number:

Model	Inlet	Outlet	Trim Size	Working Max. Press.
DVU2120	2 NPT	1 NPT	0.436 in. (11 mm)	2000 psi.
DVU2115	2 NPT	1 NPT	0.576 in. (15 mm)	1500 psi.
DVU2105	2 NPT	1 NPT	0.859 in. (22 mm)	500 psi.
DVU175	1 NPT	3/4 NPT	0.359 in. (9 mm)	1800 psi.
DVU175SS	1 NPT	3/4 NPT	0.359 in. (9 mm)	1800 psi.
DVU150	1 NPT	1/2 NPT	0.359 in. (9 mm)	1800 psi.
DVU150SS	1 NPT	1/2 NPT	0.359 in. (9 mm)	1800 psi.



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