Dump Valves



Description

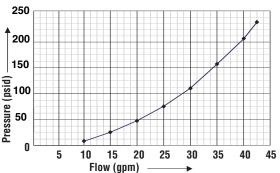
The DVU Series are pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a Murphy L1200NDVOR or similar level controller and dump valve operator. Diaphragm actuated, the DVU series dump valves operate at 30–70 psi (207–483 kPa) [2.07–4.83 bar] and up 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 specifications.

Pressure vs. Flow (DVU150/175)



MURPHY

Specifications

Operating Temperature:

-30 to 250°F (-34.4 to +121°C) Valve Operating Pressure: See chart below.

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

DV02120: 2000 psi (15.8 MPa) [158 bar].

Body Material: Electroless Nickel Plated 12L14 Carbon Steel.

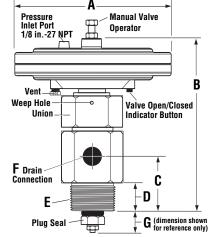
Internal Wetted Parts:

Plug Seal: 90 Durometer Urethane. Other: 303 stainless steel; Electroless Nickel Plated 12L14 Carbon Steel.

DVU Series

- 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 (207–483 kPa) [2.07–4.83 bar] Control Pressure
- Compatible With Murphy Level Controls
- Soft Seat Valve
- Manual Valve Operator

Dimensions

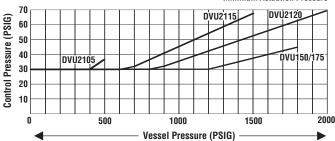


Model	Α	В	C	D	E	F	G
DVU2120	7.50 (191)	8.0 (203)	2.75 (70)	1.0 (25)	2-11.5 NPT	1-11.5 NPT	1.03
DVU2115	7.50 (191)	8.0 (203)	2.75 (70)	1.0 (25)	2-11.5 NPT	1-11.5 NPT	1.03
DVU2105	7.50 (191)	8.0 (203)	2.75 (70)	1.0 (25)	2-11.5 NPT	1-11.5 NPT	1.03
DVU175	7.50 (191)	6.75 (171)	2.06 (52)	1.0 (25)	1-11.5 NPT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

NOTE: Dimensions are in inches and (millimeters)

Control Pressure vs. Working Pressure

Minimum Actuation Pressure



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

Replacement Parts

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

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.

Part No. Description DVU2120 55-00-0237 Seal Kit (includes plug) 55-00-0236 Diaphragm Kit

 55-00-0241
 Seal Kit (includes plug)

 55-00-0240
 Diaphragm Kit

DVU2105

 55-00-0245
 Seal Kit (includes plug)

 55-00-0244
 Diaphragm Kit

DVU175

55-00-0230 Seal Kit (includes plug) **55-00-0231** Diaphragm Kit

DVU150

55-00-0230 Seal Kit (includes plug)

 55-00-0231 Diaphragm Kit

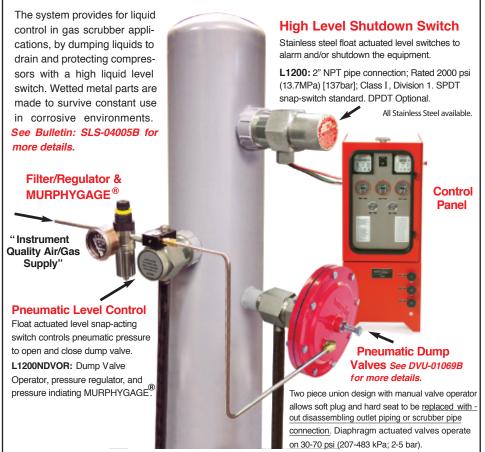
Shipping Weights

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.).

The Murphy Gas Compressor Scrubber Level System (SLS)



How to Order Specify model number:

	Model	Inlet	Outlet	Trim Size	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.	

Warranty

A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to <u>www.fwmurphy.com/support/warranty.htm</u>

CALL MURCAL TO PLACE YOUR ORDER





Working

