

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

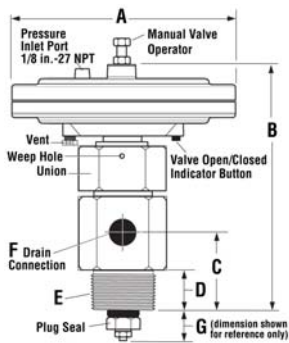
The DVU Series are pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a Murphy level controller and dump valve operator. Diaphragm actuated, the DVU series dump valves operate at 30–70 psi (2.07–4.83 kPa) [2.07–4.83 bar] and up to 2000 psi (13.8 MPa)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

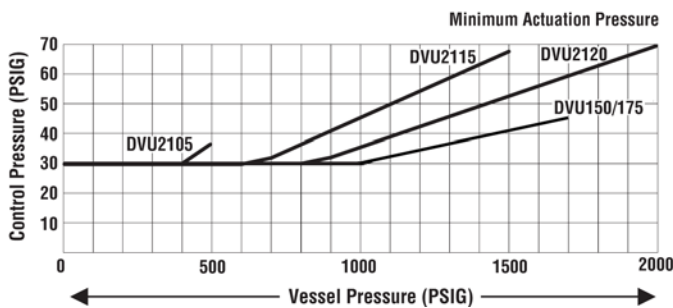
Dimensions



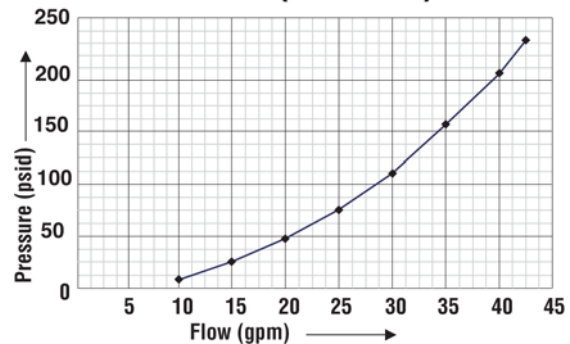
Model	DVU2120	DVU2115	DVU2105	DVU175	DVU150
A	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)
B	8.0 (203)	8.0 (203)	8.0 (203)	6.75 (171)	6.75 (171)
C	2.75 (70)	2.75 (70)	2.75 (70)	2.0 (51)	2.0 (51)
D	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)
E	2-11.5 NPT	2-11.5 NPT	2-11.5 NPT	1-11.5 NPT	1-11.5 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 (26)	1.03 (26)	1.03 (26)	0.73 (19)	0.73 (19)

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:

DVU150/175 (STD & SS): 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].

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.).

Service Parts

Part No.	Description
DVU2120	
55-00-0237	Seal Kit
55-00-0236	Diaphragm Kit
DVU2115	
55-00-0241	Seal Kit
55-00-0236	Diaphragm Kit
DVU2105	
55-00-0245	Seal Kit
55-00-0236	Diaphragm Kit
DVU150/175	
55-00-0230	Seal Kit
55-00-0231	Diaphragm Kit
55-00-0255	Bulk Seal Kit (10 each)

Part No.	Description
DVU150SS/175SS	
55-00-0262	Seal Kit
55-00-0231	Diaphragm Kit
55-00-0263	Bulk Seal Kit (10 each)

Typical Seal Kit includes: Stem/Stem Nut Assy, Seat, Quad Ring, Polypack Seal, Crush Seal Washer, Plug/Seal Assy, O-Ring (x2), Flat Washer, Nylock Nut.
Typical Bulk Seal Kit includes: 10 each of Crush Seal Washer, Plug/Seal Assy, O-Ring.

Typical Diaphragm Repair Kit includes: Diaphragm, Flat Washer (upper), Nylock Nut, Diaphragm Plate, Quad Ring, O-Ring, Polypack Seal, Sealing Washer.

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 MLS-020, LS200NDVOR and DVU valve)

MSLS2120: Includes DVU2120 valve

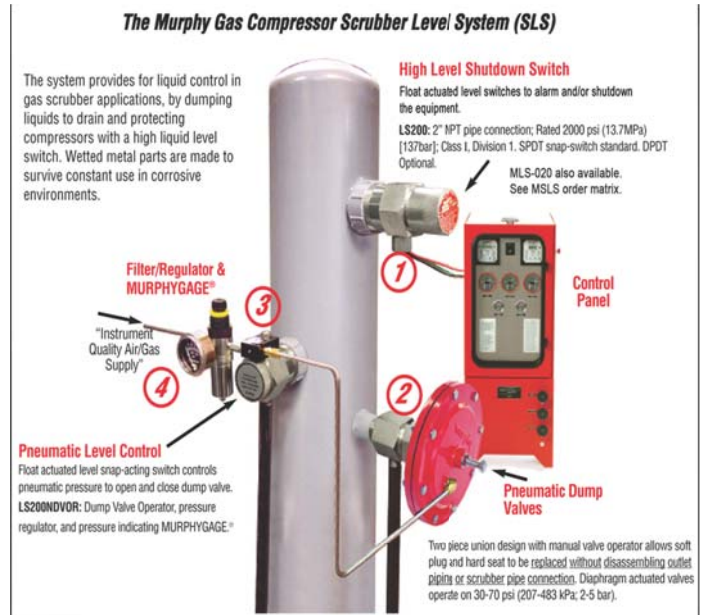
MSLS175: Includes DVU175 valve

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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