

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

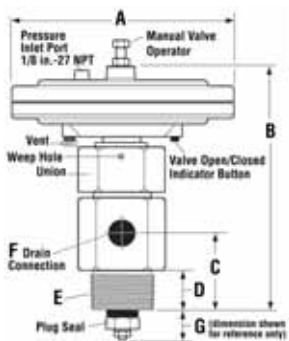
The DVU Series are pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a Murphy L1200NDVOR or similar level controller and dump valve operator. Diaphragm actuated, the DVU series dump valves operate at 30–70 psi (2.07–4.83 kPa) [2.07–4.83 bar] and up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

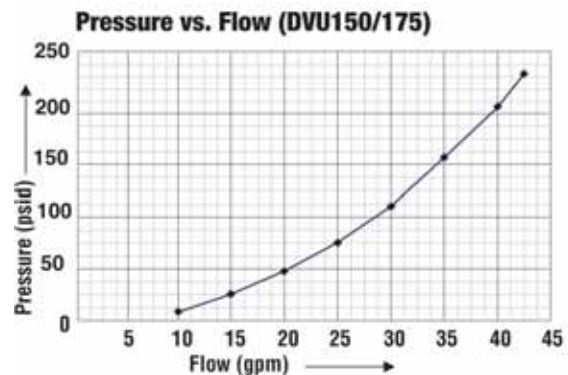
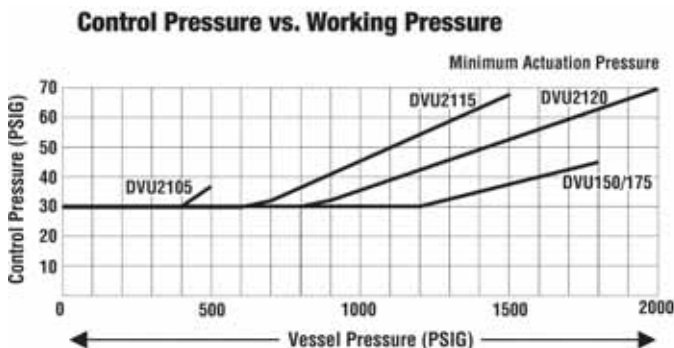
Designed for gas compressor scrubbers, the DVU Series can be used to dump any liquids compatible with its materials of construction.

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).



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

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

DVU2115

55-00-0241 Seal Kit (includes plug)

55-00-0240 Diaphragm Kit

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.

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.).

Scrubber Level Systems (SLS)

(Includes L1200, L1200NDVOR and DVU valve)

SLS02BC: Includes DVU2120 valve

SLS02BB: Includes DVU2115 valve

SLS02BA: Includes DVU2105 valve

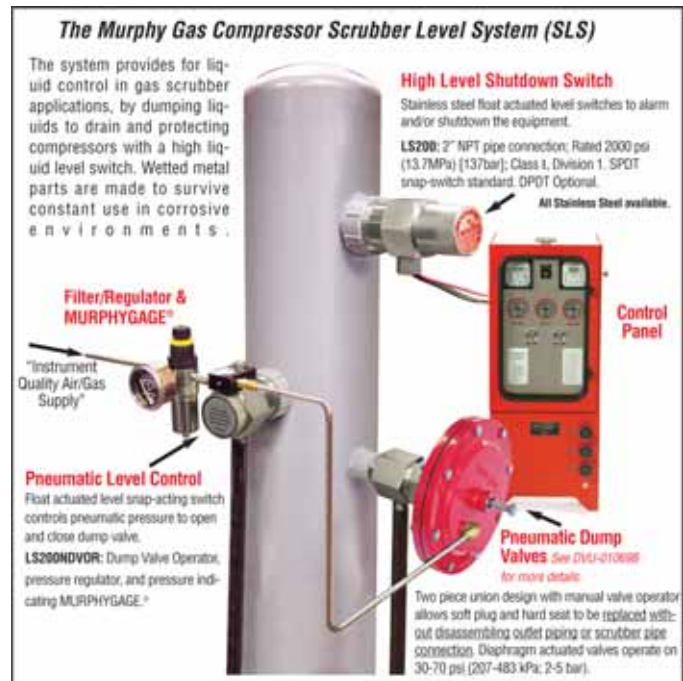
SLS02C: Includes DVU175 valve

SLS02A: 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.



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 <http://www.fwmurphy.com/warranty>