

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

Description

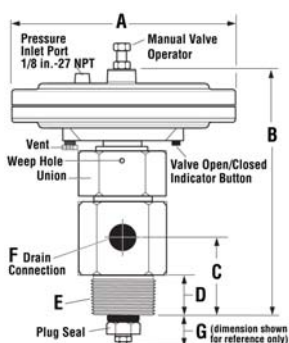
The DVU Series are pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a Murphy L1200NDVOR or similar level controller and dump valve operator. Diaphragm actuated, the DVU series dump valves operate at 30–70 psi (2.07–4.83 kPa) [2.07–4.83 bar] and up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

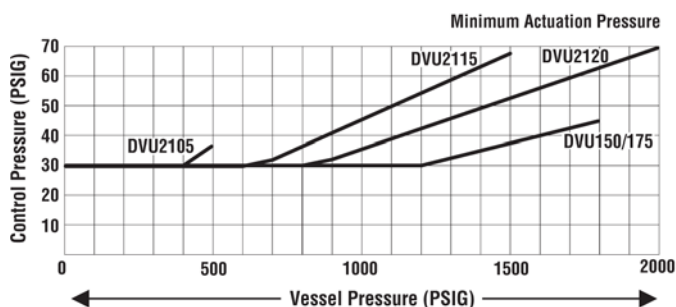
Dimensions



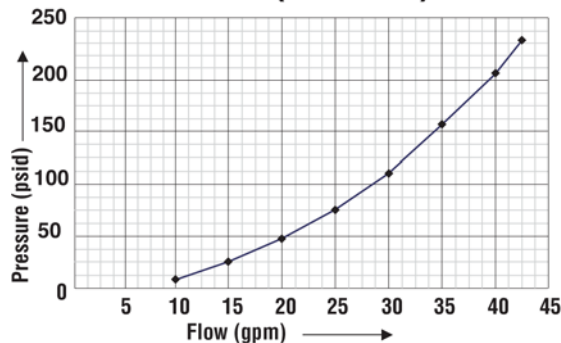
Model	DVU2120	DVU2115	DVU2105	DVU175	DVU150
A	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)
B	8.0 (203)	8.0 (203)	8.0 (203)	6.75 (171)	6.75 (171)
C	2.75 (70)	2.75 (70)	2.75 (70)	2.06 (52)	2.06 (52)
D	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)
E	2-11.5 NPT	2-11.5 NPT	2-11.5 NPT	1-11.5 NPT	1-11.5 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

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

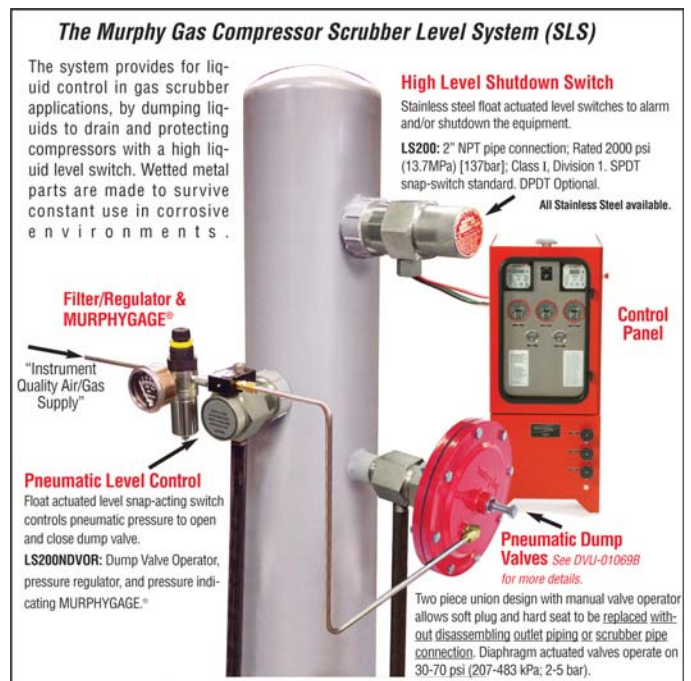
SLS02C: Includes DVU175 valve

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.



MURPHY摩菲仪表授权经销商：

CNMEC Technology (Beijing) Co.,Ltd.

信德迈科技(北京)有限公司

地址：北京市朝阳区胜古中路2号金基业大厦201室

邮编：100029

电话：010- 8428 2935, 8428 9077,

Http://www.cnmec.com

Email: sales@cnmec.biz

传真：010-8428 8762

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>