

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

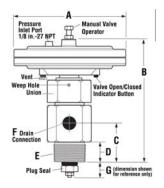
The DVU Series are pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a Murphy level controller and dump valve operator. Diaphragm actuated, the DVU series dump valves operate at 30–70 psi (207–483 kPa) [2.07–4.83 bar] and up to 2000 psi (13.8 MPa) [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 materials of construction.

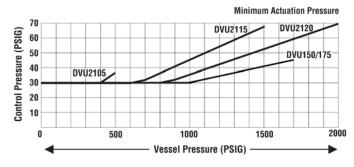
Dimensions

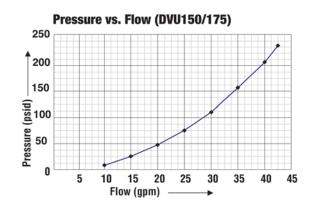


Model	DVU2120	DVU2115	DVU2105	DVU175	DVU150
Α	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)	7.50 (191)
В	8.0 (203)	8.0 (203)	8.0 (203)	6.75 (171)	6.75 (171)
С	2.75 (70)	2.75 (70)	2.75 (70)	2.0 (51)	2.0 (51)
D	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)	1.0 (25)
E	2-11.5 NPT	2-11.5 NPT	2-11.5 NPT	1-11.5 NPT	1-11.5 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





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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 55-00-0236 Seal Kit Diaphragm Kit DVU2105 55-00-0245 55-00-0236 DVU150/175 Seal Kit Diaphragm Kit 55-00-0230 55-00-0231 Seal Kit Diaphragm Kit Bulk Seal Kit (10 each) 55-00-0255

Wetted Parts:

Standard Models:

Body/Union Nut: 12L14 Carbon Steel, Electroless Nickel plated

Stem: ANSI 303 SS

Stuffing Box: ANSI 303 SS Seat: ANSI 303 SS Plug/Seal: ANSI 303 SS / 95 Durometer Urethane

Stainless Steel Models:

Body/Union Nut: ANSI 316 SS Stem: ANSI 316 SS Stuffing Box: ANSI 316 SS Seat: ANSI 316 SS

Plug/Seal: ANSI 316 SS / 95 Durometer Urethane

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,

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.

The Murphy Gas Compressor Scrubber Level System (SLS) **High Level Shutdown Switch** The system provides for liquid control in Float actuated level switches to alarm and/or shutdo gas scrubber applications, by dumping the equipment. liquids to drain and protecting LS200: 2" NPT pipe connection: Rated 2000 psi (13.7MPa) compressors with a high liquid level [137bar]; Class I, Division 1, SPDT snap-switch standard, DPDT switch. Wetted metal parts are made to survive constant use in corrosive MLS-020 also available See MSLS order matrix environments. Filter/Regulator & MURPHYGAGE Quality Air/Gas Pneumatic Level Control Float actuated level snap-acting switch controls pneumatic pressure to open and close dump valve. natic Dump LS200NDVOR: Dump Valve Operator, pressure regulator, and pressure indicating MURPHYGAGE. Two piece union design with manual valve operator allows soft plug and hard seat to be <u>replaced without</u> disassembling outlet pipins or scrubber pipe connection. Diaphragm actuated valves operate on 30-70 psi (207-483 kPa; 2-5 bar).

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