

Dump Valves

DVU Series

The DVU Series features pneumatically controlled dump valves. The valves open and close automatically by pneumatic control from a FW 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.

The DVU Series is compatible with FW Murphy level controllers. They feature a soft seat valve and manual valve operator.

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

Specifications

Operating Temperature: -30° to 250°F (-34.4° to +121°C)

Valve Operating Pressure: See How to Order

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)

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:

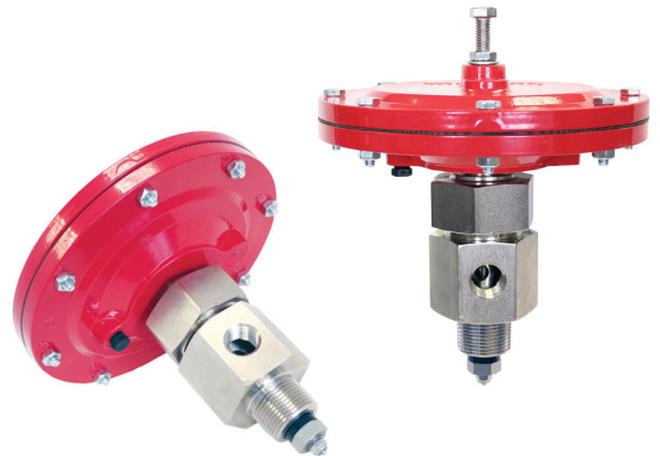
Body/Union Nut: ANSI 316 SS

Stem: ANSI 316 SS

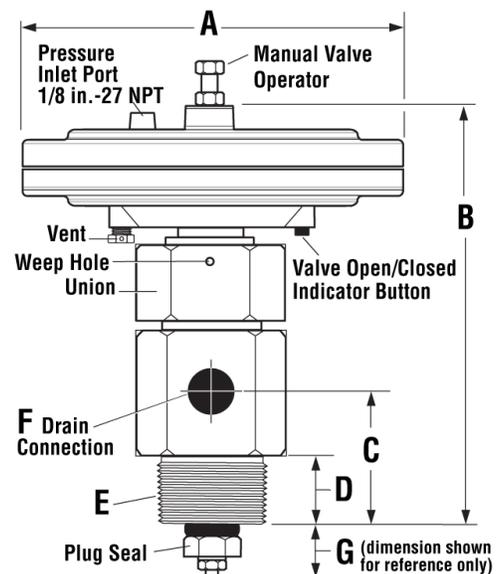
Stuffing Box: ANSI 316 SS

Seat: ANSI 316 SS

Plug/Seal: ANSI 316 SS / 95 durometer urethane



Dimensions



in. (mm)	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	.81 (20.57)	.81 (20.57)	.81 (20.57)	0.73 (19)	0.73 (19)

Scrubber Level Systems (SLS)

The FW Murphy Gas Compressor Scrubber Level System (SLS)

The system provides for liquid control in gas scrubber applications, by dumping liquids to drain and protecting compressors with a high liquid level switch. Wetted metal parts are made to survive constant use in corrosive environments.



(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

Part Number	Model and Description	Notes
Use Model Number	DVU2120	
	DVU2115	
	DVU2105	
	DVU175	
	DVU175SS	
	DVU150	
	DVU150SS	
	55000272	DVU2120 Seal Kit
55000273	DVU2120 Diaphragm Kit	
55000271	DVU2115 Seal Kit	
55000273	DVU2115 Diaphragm Kit	
55000270	DVU2105 Seal Kit	
55000273	DVU2105 Diaphragm Kit	
55000230	DVU150/175 Seal Kit	
55000231	DVU150/175 Diaphragm Kit	
55000255	DVU150/175 End Seal Kit	
55000262	DVU150SS/175SS Seal Kit	
55000231	DVU150SS/175SS Diaphragm Kit	
55000263	DVU150ss/175SS End Seal Kit	

Models

Model	Inlet	Outlet	Trim Size inches (mm)	Working Max. Press.
DVU2120	2 NPT	1 NPT	0.500 (12.7)	2000 psi
DVU2115	2 NPT	1 NPT	0.571 (14.5)	1500 psi
DVU2105	2 NPT	1 NPT	0.791 (20.09)	500 psi
DVU175	1 NPT	3/4 NPT	0.359 (9)	1800 psi
DVU175SS	1 NPT	3/4 NPT	0.359 (9)	1800 psi
DVU150	1 NPT	1/2 NPT	0.359 (9)	1800 psi
DVU150SS	1 NPT	1/2 NPT	0.359 (9)	1800 psi

Pressure vs. Flow (DVU150/175)

