

Form No.	Issue Date	Rev. Date
<b>DS-4000</b>	<b>04/19/96</b>	<b>12/22/04</b>

### WATEROUS BALL-TYPE DISCHARGE VALVES

**WATEROUS HAS THREE BASIC VALVE SIZES AVAILABLE WITH A WIDE RANGE OF OPERATION METHODS AS FOLLOWS:**

*Table 1. Ball-Type Discharge Valves*

Type (Size)	Ball Opening	Material	Mounting	Operation		Ass'y No.	Dim Dwg
				Type	Method		
2-1/2 in. Standard	2-1/8 in. Dia	Cast Iron	Flange	Manual	Push-Pull	80489	DPL80497
					Remote Locking (Drains at 45°)	82102	DPL82103
			Flange	Manual	Rotary Actuator	82618	DPL82736
					Electric	Rotary Actuator	82615
2-1/2 in. Full-Flow	2-1/2 in. Dia	Cast Iron	Flange	Manual	Push-Pull	80824	DPL80828
					Remote Locking	80825	DPL81138
			Flange	Manual	Push-Pull with Flowmeter Provision	81194	DPL81202
					Rotary Actuator	82619	DPL82737
					Electric	Rotary Actuator	82616
3-1/2 in. Standard	3 in. Dia	Cast Iron	Flange	Manual	Rotary Actuator	82620	DPL82738
				Electric	Rotary Actuator	82617	DPL82735
Optional Discharge Valve Items						N/A	DPL82499

**NOTES:**

1. All valves are 1/4 turn open to close.
2. Flange mounted valves are mounted directly on the pump discharge flange or directly on a discharge fitting flange.
3. For in-line mounting where the valve is plumbed directly in the piping, the customer must order tapped flanges and re-configure the valve themselves.

# DATA SHEET

## WATEROUS BALL-TYPE DISCHARGE VALVES

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### ***SPECIFY DISCHARGE VALVES AS FOLLOWS:***

**NOTE:** Any number of valves with varying sizes and operation methods may be ordered on the same pump to meet discharge requirements.

#### **VALVE TYPE (SIZE)**

2-1/2 in. Standard (2-1/8 in. dia ball opening) (53.98 mm)

2-1/2 in. Full Flow (2-1/2 in. dia ball opening) (63.50 mm)

3-1/2 in. (3 in. dia ball opening) (76.20 mm)

#### **MATERIAL**

Iron only

#### **MOUNTING**

Flange only

#### **OPERATION**

##### **Type**

Manual or Electric

##### **Method**

##### **Manual Valves**

##### ***Rotary Actuator (all valve sizes)***

The actuator is operated by a crank type handle. 10 turns required from fully open to closed. The open, closed and intermediate positions are indicated on a lighted panel.

##### ***Push-Pull (2-1/2 in. standard or 2-1/2 in. full-flow only)***

Rack and sector operated by a push-pull handle to open or close. Valve is locked in position by a 90° twist of the handle in either direction.

##### ***Remote Locking (2-1/2 in. standard or 2-1/2 in. full-flow only)***

An arm attached to the valve stem opens or closes the valve by turning. The arm cannot be locked at the valve, the customer must provide a remotely located locking device. Drain taps at 90° to waterway for 2-1/2 in. full-flow and 45° to waterway for 2-1/2 in. standard.

##### ***Push-Pull with Flowmeter Provision (2-1/2 full flow only)***

Rack and sector operated by a push-pull handle to open or close. Valve is locked in position by a 90° twist of the handle in either direction. Valve has provision for mounting a flowmeter (Waterous does not furnish flowmeter).

##### ***Electric (all valve sizes)***

An electric motor opens and closes valve by means of a switch mounted on the operator's panel. The open, closed and intermediate positions are indicated on a lighted panel display.

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### **ASSEMBLY NUMBER**

See dimensional drawing for assembly numbers. Assembly number to include base valve number and a suffix which indicates one or more of the following: Material, panel side, remote side or in-line mounting, Operator Position Figure No. (valve suffixes vary based on size and type of operation).

### **OPERATOR POSITION FIGURE NUMBER**

See dimensional drawings for available figure numbers. This number refers to the position of the operator relative to the waterway.

### **VALVE MOUNTING LOCATION**

Specify where each valve is to be mounted on the pump if necessary. (Furnish a sketch if possible)

### **OPTIONAL VALVE ITEMS**

These items consist of threaded extensions, threaded adapters, nipples, control rods, operators panel plate kits, control handle kits, tapped flanges, etc. which may be ordered for each valve. These items are to be ordered in the miscellaneous section of the order. See drawing DPL82499 for available items.