System Valves

When operators are working some distance from a pump unit, the ability to stop the high-pressure water flow without shutting down the pump is a real convenience. That's where NLB system valves come in.

They handle a wide range of flows and pressures, and you can choose from six actuation methods (see below). Some models can be equipped with proximity switches; some are even explosion-proof. Although usually mounted on a remote workstation, a system valve can be mounted on the pump.

Features and benefits include:

- Stainless steel construction of all wetted components
- Standard enclosures protect in hostile environments
- Used with electric units for "no-load" start-ups
- Rebuild kits available for fast, easy maintenance

HOW TO CHOOSE A SYSTEM VALVE

When a **dump valve** is actuated, 95% of the high-pressure water is diverted to dump and the system pressure is reduced to near-zero. Until the valve is actuated, the water just passes through. If 100% shut-off is required, or if several workstations need the high-pressure water at once, a **directional valve** is recommended.

Most NLB system valves can be ordered with air actuation, hydraulic actuation, or air over electric. Actuation method and special features are designated by a suffix at the end of the model number, as illustrated in the chart below with the V-485 system valve.

If you have questions about which model is best-suited to a particular application, NLB is always happy to help.

System Valve dimensions (all models except V20-495 series):

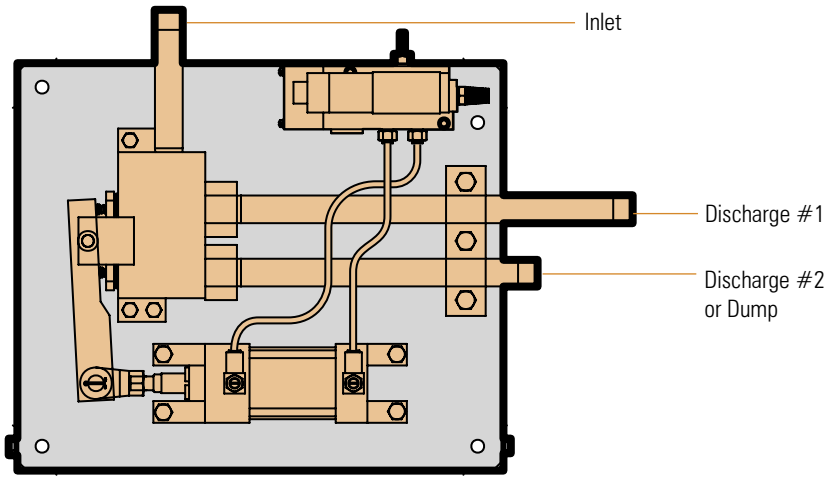
Length: 15 3/8" *(39 cm)*

Width: 13" *(33 cm)*

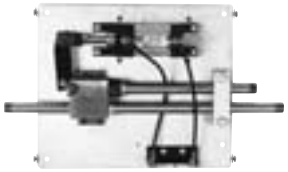
Height: 7" *(18 cm)*

Weight: 50 lbs. *(23 kg)*

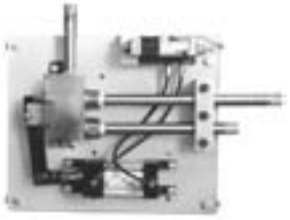
Model No.	Description
V-485	Air
V-485AE	Air over Electric
V-485H	Hydraulic
V-485AE-PROX	Air over Electric, with proximity switch
V-485AE-XP	Air over Electric, explosion-proof
V-485AE-24VDC	Air over Electric, 24 volt DC



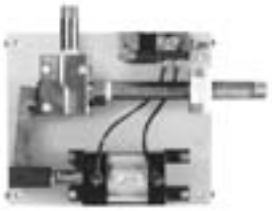
Directional and Dump System Valves



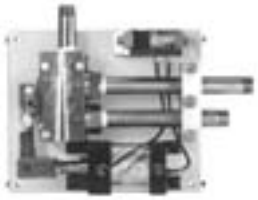
V-560



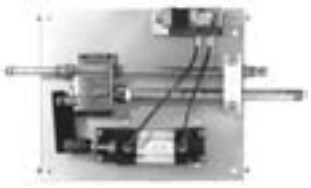
V-660



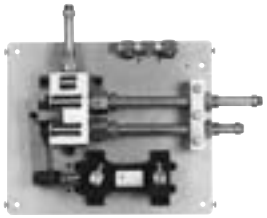
VH-485



VH-685



V20-560

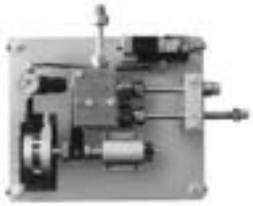


V20-660

Model No.	Type	Max. Pressure	Max. Flow	Inlet Connection	Outlet Connection	Ports	Rebuild Kit
V-560	Dump	10,000 psi *(700 bar)*	40 gpm *(151 lpm)*	1/2" NPT Male	1/2" NPT Male	1 each high-pressure inlet and outlet, and low-pressure outlet	550RBKT
V-660	Directional	10,000 psi *(700 bar)*	40 gpm *(151 lpm)*	1/2" NPT Male	1/2" NPT Male	1 high-pressure inlet and 2 high-pressure outlets	650RBKT
VH-485	Dump or Shut-off	10,000 psi *(700 bar)*	60 gpm *(227 lpm)*	1" NPT Male	1" NPT Male	1 each high-pressure inlet and outlet	475RBKT
VH-685	Directional	10,000 psi *(700 bar)*	60 gpm *(227 lpm)*	1" NPT Male	1" NPT Male	1 high-pressure inlet and 2 high-pressure outlets	685RBKT
V10-495	Directional	10,000 psi *(700 bar)*	50 gpm *(189 lpm)*	1" NPT Female	1" NPT Female	1 high-pressure inlet and 2 high-pressure outlets	V10-495A-RBKT
V20-560	Dump	20,000 psi *(1,400 bar)*	40 gpm *(151 lpm)*	9/16" MP Male	9/16" MP Male	1 each high-pressure inlet and outlet, and low-pressure outlet	20-550RBKT
V20-660	Directional	20,000 psi *(1,400 bar)*	40 gpm *(151 lpm)*	9/16" MP Male	9/16" MP Male	1 high-pressure inlet and 2 high-pressure outlets	20-650RBKT
V20-495	Directional	20,000 psi *(1,400 bar)*	40 gpm *(151 lpm)*	1" MP Male	1" MP Male	1 high-pressure inlet and 2 high-pressure outlets	V20-495 RBKT
V36-560	Dump	40,000 psi *(2,800 bar)*	11 gpm *(42 lpm)*	9/16" HP	9/16" HP	1 each high-pressure inlet and outlet, and low-pressure outlet	36-560RBKT
V36-660	Directional	40,000 psi *(2,800 bar)*	11 gpm *(42 lpm)*	9/16" HP	9/16" HP	1 high-pressure inlet and 2 high-pressure outlets	36-660RBKT

Plumb several V20-495 valves together to create a high-pressure header with multiple discharge points, activated as needed.

V20-495



V36-560