

# UNIVERSAL RELAY VALVE (URV)

The URV "Universal Relay Valve" is a 3-Way or 2-Way multipurpose auxiliary relay valve which responds to a water or air pressure command.

It has a high flow capacity and a hydraulically balanced low friction shaft travel. This unique design increases reliability and enables the use of a low command pressure regardless of the system pressure.

## Typical Applications

- Signal acceleration (3/2 N.C.)
- Signal reversal and acceleration (3/2 N.O.)
- To direct one of two pressure sources to a common port (3/2 Mixer)
- To direct a single pressure source to one of two ports (3/2 distributor)
- Relay valve (2/2 N.O. or 2/2 N.C.)

## Technical Data

**Pressure rating:** 25 bar; 400 psi

**Temperature Rating:** Water up to 60°C; 150°F

**Minimum Command Pressure:**

Standard: 2.5 bar; 36 psi

Optional with special actuator: 0.6 bar; 9 psi, 0.2 bar; 3 psi

**Flow factor:** Kv 1.5; Cv 1.7

**Port threads:**

Ports: 1, 2 & 3: ½" NPT

Command port (U): ¼" NPT

**Standard materials:**

**Body:** Stainless Steel 316

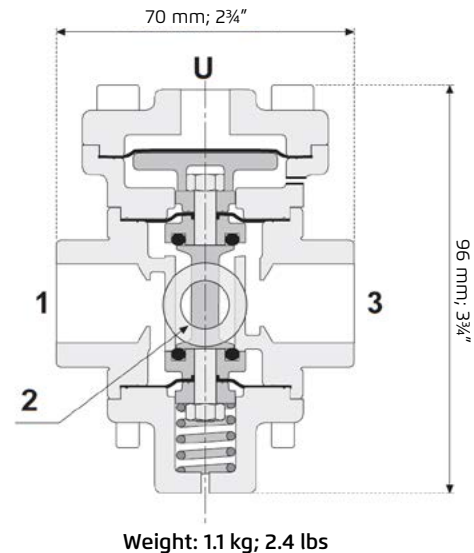
Internals: Stainless Steel 316

Elastomers: NBR

**Optional Materials:**

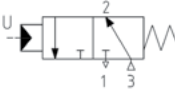
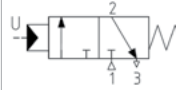
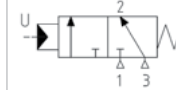
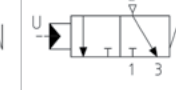
**Body:** Nickel Aluminum Bronze

Internals: Monel 400

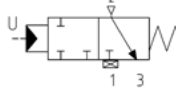
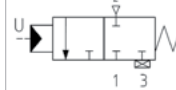


**Weight:** 1.1 kg; 2.4 lbs

## 3 - Way Operation

	N.O.	N.C.	Mixer	Distributor
PORT				
1	Vent	Supply Pressure	Pressure Source 1	Outlet 1
2	Common	Common	Common	Pressure Source
3	Supply Pressure	Vent	Pressure Source 2	Outlet 2
U	Command	Command	Command	Command

## 2 - Way Operation

	N.O.	N.C.
PORT		
1	Plugged	Outlet
2	Inlet	Inlet
3	Outlet	Plugged
U	Command	Command