W30SR.CAT.ENG02





NS

W-30 SR

Pressure Sustaining Reducing Control Valve 2 Way



Introduction

Based on a unique technology that combines innovative design and performance, the Eliptix line of hydraulic control valves offers optimal system solutions. The Eliptix line are suitable for installation in the areas of waterworks, high-rise buildings, fire protection systems, industrial, oil & gas, on & off-shore and irrigation systems.

With an innovative elliptical structure, the Eliptix control valve line offers accurate, stable and excellent regulating capabilities for a wide range of flow rates.

Requiring exceptionally low operating pressure for valve opening and rapid, yet gradual closing. The Eliptix valve is designed for minimal head loss and increased revenue.

With a simple mechanism and a minimal amount of moving parts, the Eliptix hydraulic control valve line delivers reliable operation, extended durability and minimize cavitation risk.

Cost reduction with fast and simple inline maintenance.

Rugged, high quality construction meets applicable engineering standards.

Description

The Eliptix Pressure Sustaining Reducing Valve model W-30 SR is dual pilot valve, activated by line pressure. The two pilots operate to sustain constant pressure upstream of the valve and at the same time, reduce the pressure downstream to a preset pressure. One pilot is sensitive to upstream pressure and the other to downstream pressure.

The Eliptix W-30 SR Pressure Sustaining Reducing Valve opens or closes gradually to maintain both required pressures simultaneously.

The pressure Sustaining & Reducing valve is used to define two pressure zones along a supply line.

The combination of the 2-way command and the elliptical diaphragm enables smooth and precise pressure control.

Product Features

- Rugged, high quality construction meets applicable engineering standards
- Long service life and low maintenance
- Unique technology, innovative design and performance
- Free and unobstructed liquid flow with minimal head loss
- Designed to reduce cavitation
- Elliptic diaphragm reacts faster with less movement
- Small control chamber enables quicker response

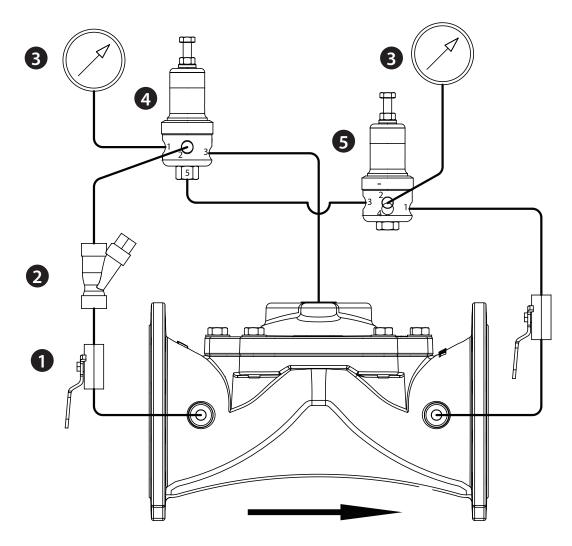




Schematic Control Loop Diagram

COMPONENTS

- 1. Ball Valve
- 2. Y Strainer
- 3. Pressure Gauge
- 4. P-26 S pressure Sustaining pilot valve
- 5. P-26 R pressure reducing pilot valve



Pressure Sustaining Reducing Control Valve - 2 Way

W-30 SR



Purchase Specifications

Eliptix^{by A.R.L}

The Hydraulic Control Valve shall automatically control upstream and downstream pressure in order to sustain system preset working pressure and to maintain constant pressure regardless of changing demand from the end user.

The control valve shall be a hydraulically operated, pilot controlled, weir type, in-line serviceable valve. The main in-line hydraulic control valve shall have only two moving parts, the resilient diaphragm and the spring. The diaphragm shall be the only sealing component of the control valve.

Valve Technical Specifications*

Series W-30 PN16

Self-actuated, WEIR type diaphragm actuated, hydraulic control valve *For dimensions and weights, please refer to the Eliptix Basic Valve leaflet

Material	Body & Bonnet	Ductile Iron / Stainless Steel SAE 316
	Diaphragm	Natural Rubber / EPDM
	Spring	Stainless Steel SAE 302
	Spring Seat	Acetal / Stainless Steel SAE 316
	Bolts	Steel, Zinc Cobalt Coated / Stainless Steel SAE 316
	Piping & Tubing	Stainless Steel SAE 316 / Reinforced Nylon
	Coating	Fusion bonded epoxy coating according to the standard DIN 30677-2
Pressure Rating		Maximum working pressure - 16 bar Minimum working pressure - 0.4 bar (depending on type of diaphragm)
Water Temp. Range		5° to 60°C



W-30 SR

Pilot Valve Technical Specifications

Model: P-26 R PN16 , P-26 S PN16

Eliptix^{by A.R.L.}

Spring loaded 2W hydraulic control pilot valve

Material	Body	Brass – Nickel Plated / Stainless Steel 316
	Internal Parts	Elastomers: EPDM / NBR Metal: Stainless Steel SAE 316 / Brass
	Spring	Stainless Steel SAE 302
Pressure Rating		Maximum working pressure - 16 bar Minimum working pressure - 0.4 bar
Water Temp. Range		5° to 60°C

Installation and Storage Recommendations

- Always flush the pipeline to remove debris before the installation of the valve.
- Arrow on the valve bonnet must match the actual flow direction.
- Tighten bolts to the recommended torque for the specific size and model of the Eliptix valve.
- Do not over-torque.
- Tighten bolts using the crossover method.
- If the Eliptix value is for use in ambient or fluid temperatures below freezing, consult your nearest A.R.I. distributor. If shut down during cold weather, the value control space and the control system must be drained.

When ordering, please specify

- 1) Eliptix Control Valve Series W-30 model SR
- 2) Eliptix valve size
- 3) Desired end connection / Standard
- 4) Static inlet pressure (when valve is closed)
- 5) Dynamic pressures (min max)
- 6) Flow rates (min-max)
- 7) Required outlet pressure
- 8) Required inlet pressure