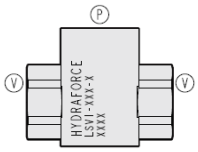
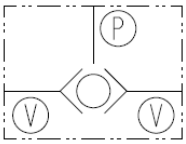
LOAD SHUTTLE VALVE

Overview



SYMBOL



Description

The LSV1 is an in-line plumbed, low leak, load shuttling hydraulic check valve for use as a directional selector.

Operation

The LSV1 will allow flow from the higher pressure of either "V" port to "P" port.

Features

- Rapid response to load direction changes.
- Inline body for easy external plumbing
- Choice of port styles

Ratings

Pressure Ratings

Pressure rating: 241 bar (3500 psi)

Flow Ratings

Flow rating: See performance graph

Maximum internal leakage: 0.05 ml/min (1 drops/min)

Temperature Ratings

Operating fluid temperature: -40 to 100 °C (-40 to 212 °F) note: With buna N seals

-26 to 204 °C (-15 to 400 °F) note: With fluorocarbon seals

-54 to 107 °C (-65 to 225 °F) note: With polyurethane seals

Storage temperature: -40 to 70 °C (-40 to 160 °F)

Ambient temperature: -40 to 90 °C (-40 to 194 °F)

Operating Parameters

Fluids: Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range: 7.4 to 420 cSt

Maximum operating contamination level: 20/18/14 per ISO 4406

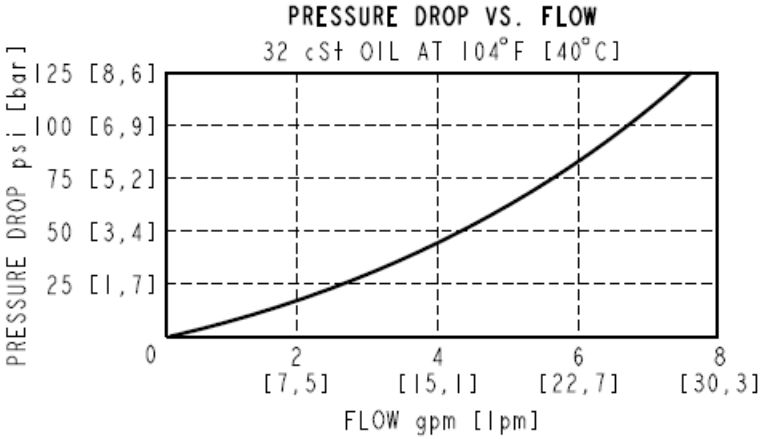
Properties

Unit weight: 0.12 kg (0.27 lb) note: LSV1-2P/6T

0.21 kg (0.46 lb) note: LSV1-6TS

LOAD SHUTTLE VALVE

Performance



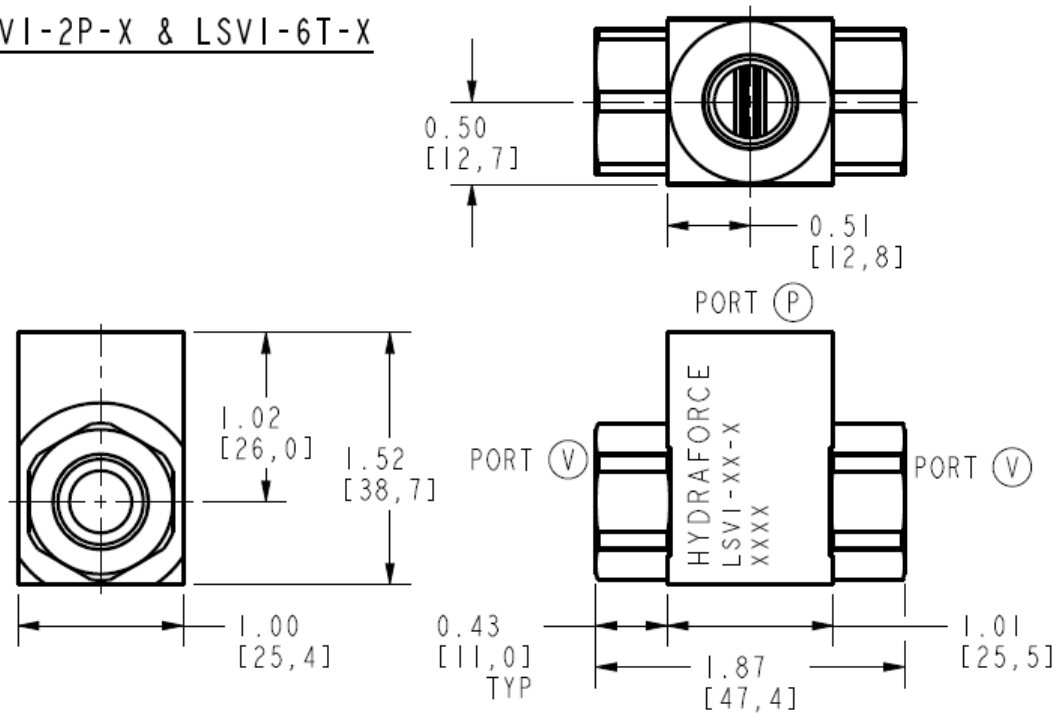
LOAD SHUTTLE VALVE

Dimensions

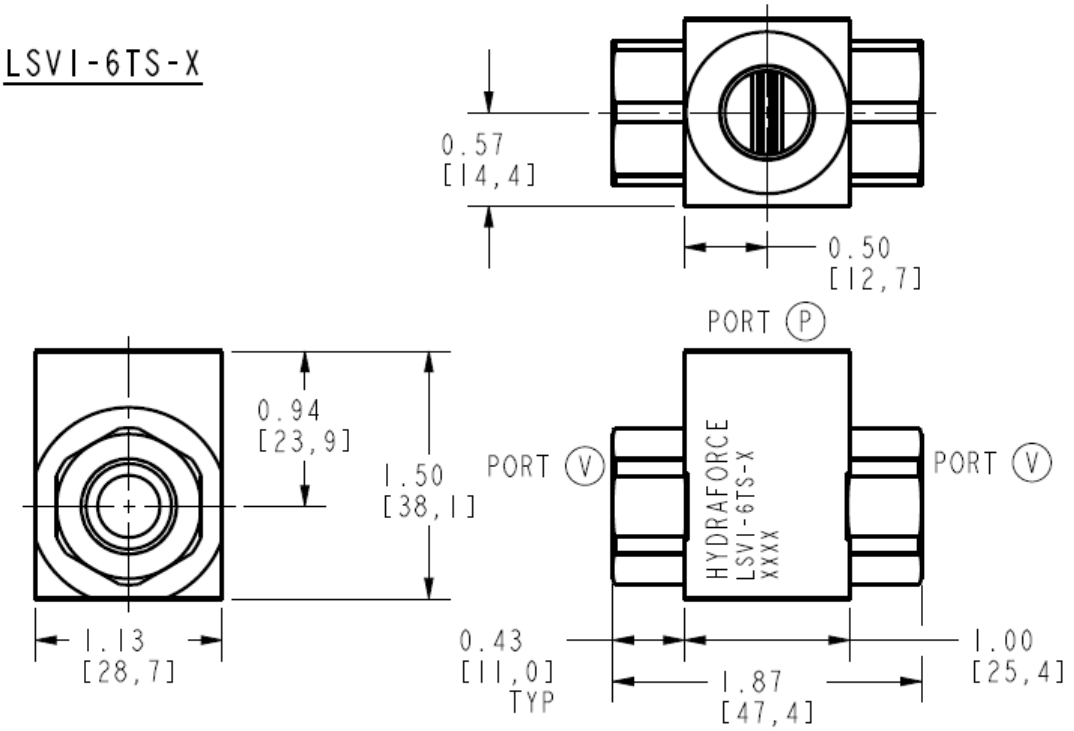
INCH
[mm]

OUTLINE

LSVI-2P-X & LSVI-6T-X



LSVI-6TS-X



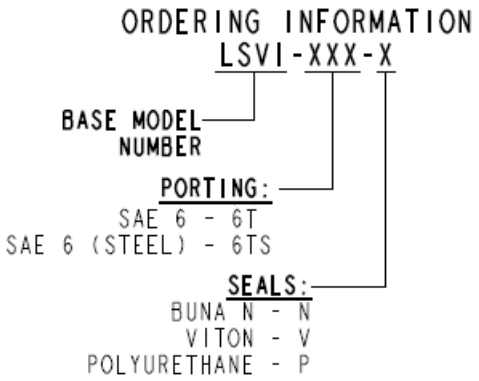
ALL DIMENSIONS ARE FOR REFERENCE ONLY.

LOAD SHUTTLE VALVE

Accessories

Seal kit: Non-serviceable

Order Code



Model Options

LSV1-H-J

H Porting

CODE	DESCRIPTION
6T	Aluminum SAE 6
6TS	Steel SAE 6

J Seals

CODE	DESCRIPTION
N	Buna N
V	Fluorocarbon
P	Polyurethane