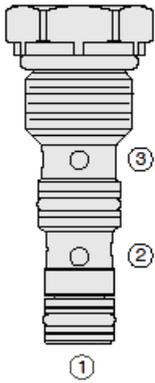




## Overview



### Description

A load shuttle, screw-in, cartridge style, hydraulic check valve, for use in blocking circuits where a priority of flow/direction is given to a higher pressure circuit over a lower one.

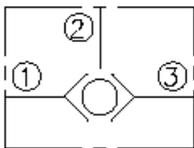
### Operation

The HLS06-30 will allow flow from the higher pressure port 1 or 3 to port 2.

### Features

- Rapid response to load direction changes.
- Compact size.
- Lower pressure drop.
- Reduced space claim and smaller hydraulic "footprint".
- All HyPerformance products are tested to the rigorous standards of the NFPA specification T2.6.1.
- All HyPerformance valves are tested at a verification level of 90% and an assurance of 99%.

### Symbol



## Ratings

### Pressure Ratings

|                 |  |                               |
|-----------------|--|-------------------------------|
| Pressure rating | 350 bar (5075 psi)<br>420 bar (6090 psi) | <b>- Note:</b> 10% cycle life |
| Proof pressure  | 690 bar (10000 psi)                      |                               |
| Burst pressure  | 1380 bar (20000 psi)                     |                               |

### Flow Ratings

|                          |                           |                                      |
|--------------------------|---------------------------|--------------------------------------|
| Flow rating              | 7.6 lpm (2 gpm)           | <b>- Note:</b> At 350 bar (5075 psi) |
| Maximum internal leakage | 0.10 ml/min (2 drops/min) |                                      |

### Other Ratings

|            |                    |
|------------|--------------------|
| Cycle life | One million cycles |
|------------|--------------------|

### Temperature Ratings

|                             |                               |                         |
|-----------------------------|-------------------------------|-------------------------|
| Operating fluid temperature | -40 to 100 °C (-40 to 212 °F) | <b>- Note:</b> Buna N   |
|                             | -26 to 204 °C (-15 to 400 °F) | <b>- Note:</b> Viton    |
|                             | -54 to 107 °C (-65 to 225 °F) | <b>- Note:</b> Urethane |
| Storage temperature         | -40 to 70 °C (-40 to 160 °F)  |                         |
| Ambient temperature         | -40 to 90 °C (-40 to 194 °F)  |                         |

## Operating Parameters

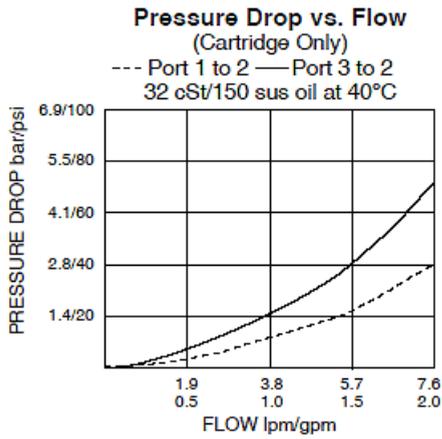
|                                       |  |
|---------------------------------------|--|
| Fluids                                | Mineral based or synthetic hydraulic fluid with lubricating properties |
| Fluid viscosity range                 | 7.4 to 420 cSt   |
| Maximum operating contamination level | 18/16/13 per ISO 4406  |

## Properties

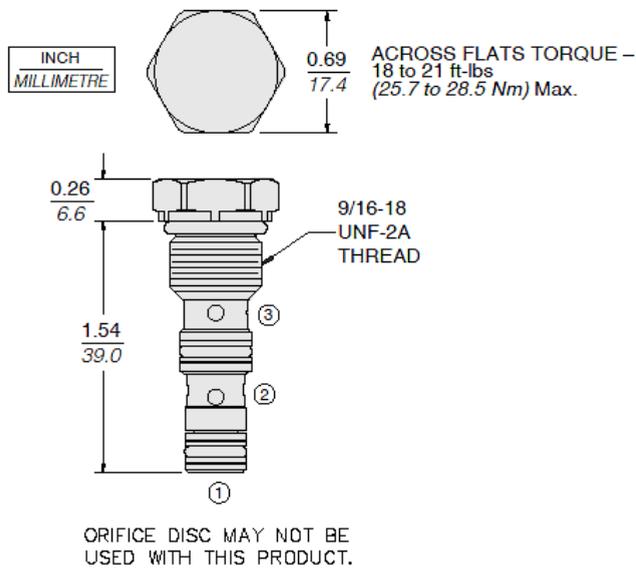
|                              |   |
|------------------------------|---|
| Unit weight                  | 0.04 kg (0.08 lb)                           |
| Internal wetted surface area | 35.5 cm <sup>2</sup> (5.5 in <sup>2</sup> ) |



## Performance



## Dimensions



## Installation Specifications

|                               |                                   |
|-------------------------------|-----------------------------------|
| Cavity                        | HVC06-3                           |
| Cartridge installation torque | 25.7 to 28.5 N-m (19 to 21 ft-lb) |
| Orientation restriction       | None                              |

## Accessories

|          |             |                         |
|----------|-------------|-------------------------|
| Seal kit | SK06-3N-MM  | - <b>Note:</b> Buna N   |
|          | SK06-3V-MM  | - <b>Note:</b> Viton    |
|          | SK06-3HV-MM | - <b>Note:</b> Viton    |
|          | SK06-3U-00  | - <b>Note:</b> Urethane |



**Order Code**

HLS06-30- -

**Porting**  
Cartridge Only 0

**Seals**  
N Buna N  
V Fluorocarbon  
U PPDI Urethane\*

\*PPDI Urethane seals recommended for operating pressures above 241 bar/3500 psi.

Consult factory for other available options.

**Model Options**

**HLS06-30-H-J**

**H Line Body**

| CODE | DESCRIPTION |
|------|-------------|
| 0    | No Body     |

**J Seal**

| CODE | DESCRIPTION   |
|------|---------------|
| N    | Buna-N        |
| V    | Fluorocarbon  |
| U    | PPDI Urethane |