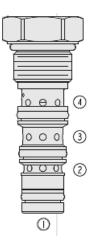
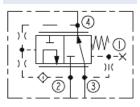


# **Overview**



## **Symbol**



## Ratings

#### Pressure Ratings 350 bar (5075 psi) - Note: All ports Pressure rating 420 bar (6090 psi) - Note: (10% cycle life) 690 bar (10000 psi) Proof pressure 1380 bar (20000 psi) Burst pressure - Note: Mid-point of supply and tank pressure. Reference performance Control pressure setting graph for accuracy Flow Ratings 56.8 lpm (15 gpm) Flow rating - Note: Port 2 to 4 (at ) 350 bar (5075 psi) 1.95 lpm (0.52 gpm) Maximum pilot flow Other Ratings One million cycles Cvcle life 960 hr salt spray per ASTM b117 Corrosion protection **Temperature Ratings** -40 to 100 °C (-40 to 212 °F) - Note: With buna N seals Operating fluid temperature -26 to 204 °C (-15 to 400 °F) - Note: With fluorocarbon seals -54 to 107 °C (-65 to 225 °F) - Note: With urethane seals -40 to 70 °C (-40 to 160 °F)

## **Operating Parameters**

Storage temperature

Ambient temperature

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

-40 to 90 °C (-40 to 194 °F)

## **Description**

The HTD10-40 is a high pressure, spool type, screw in, cartridge style, hydraulic pressure reducing/relieving valve that maintains the control pressure at the mid-point of the supply and tank pressure.

#### **Operation**

The spool is biased to block flow from port 2 to port 3 and allow flow from port 3 to port 4. Pressure applied to port 2 shifts the spool to block flow to port 4 and allow flow from port 2 to port 3 until the pressure at port 3 is at the mid-point of the pressure at port 2 and port 4. The valve relieves flow from port 3 to port 4 if the pressure at port 3 increases above the mid-point. Port 1 is blocked (unused).

#### **Features**

- Divides torgue between two series motors.
- Accommodates differential flow (size optimized).
- · Hardened spool and cage for long life.
- 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%.

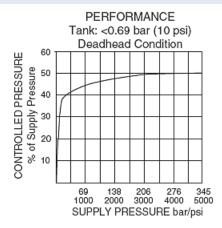


# **Properties**

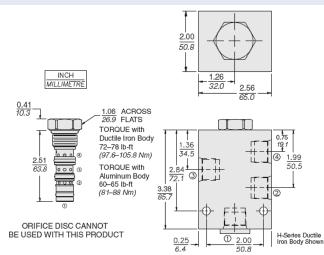
Unit weight		
Internal wetted surface area		

0.15 kg (0.32 lb) 141 cm<sup>2</sup> (21.8 in<sup>2</sup>)

## Performance



## **Dimensions**



# **Installation Specifications**

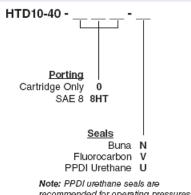
Cavity	HVC10-4	
Cartridge installation torque	102 to 115 N-m (75 to 85 ft-lb) 81 to 88 N-m (60 to 65 ft-lb)	<ul> <li>Note: Steel/ductile iron cavity</li> <li>Note: Aluminum cavity</li> </ul>
Orientation restriction	None	

# Accessories

Seal kit	SK10-4N-MMM	- Note: Buna N
	SK10-4V-MMM	- Note: Fluorocarbon
	SK10-4U-000	- Note: Urethane



# Order Code



recommended for operating pressures above 241 bar (3500 psi).

## Model Options

#### HTD10-40-H-J

#### H Line Body

CODE	DESCRIPTION
0	No Body
8HT	Ductile Iron SAE 8

#### J Seal

CODE	DESCRIPTION
Ν	Buna-N
V	Fluorocarbon
U	PPDI Urethane