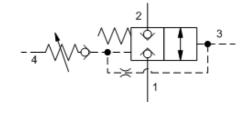
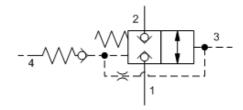
# sun hydraulics

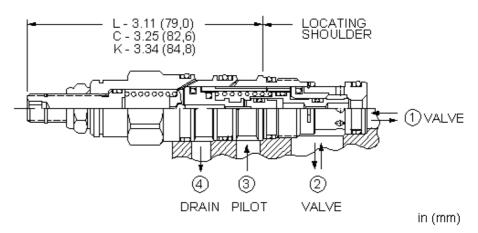
MODEL DKDP



snhy.com/DKDP







This is a normally closed, balanced poppet, switching element. When pilot pressure is applied to port 3, the poppet remains closed until the pilot pressure reaches the setting established by the integral pilot relief stage, at which point the poppet shifts to the open position.

# **TECHNICAL DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-21A			
Series	1			
Capacity	60 L/min.			
Minimum Pilot Pressure Required to Shift Valve	28 bar			
Maximum Operating Pressure	350 bar			
Control Pilot Flow	See Performance Data			
Maximum Valve Leakage at 110 SUS (24 cSt)	0,7 cc/min.@350 bar			
Valve Hex Size	22,2 mm			
Valve Installation Torque	41 - 47 Nm			
Adjustment Screw Internal Hex Size	4 mm			
Locknut Hex Size	15 mm			
Locknut Torque	9 - 10 Nm			
Seal kit - Cartridge	Buna: 990021007			
Seal kit - Cartridge	Polyurethane: 990021002			
Seal kit - Cartridge	Viton: 990021006			
Model Weight	0.19 kg.			

### **CONFIGURATION OPTIONS**

L Standard Screw Adjustment

C Tamper Resistant - Factory Set

# Model Code Example: DKDPLAN

(A) SEAL MATERIAL

#### CONTROL

K Handknob

(L) ADJUSTMENT RANGE

Ą	400 -	3000	psi	(28	- 210	bar),	1000	ps
	/701	1 01		- L .	0			

00 psi N Buna-N V Viton

(70 bar) Standard Setting **B** 400 - 1500 psi (28 - 105 bar), 1000 psi (70 bar) Standard Setting **W** 400 - 4500 psi (28 - 315 bar), 1000 psi

**W** 400 - 4500 psi (28 - 315 bar), 1000 psi (70 bar) Standard Setting

#### (N) MATERIAL/COATING

Standard Material/Coating /AP Stainless Steel, Passivated /LH Mild Steel, Zinc-Nickel

# **TECHNICAL FEATURES**

- Unique balanced construction provides predictable switching with 5000 psi (350 bar) at both port 1 and port 2. When the remote pressure signal at port 3 exceeds the internal valve setting, the valve shifts to the open position.
- Any backpressure at the drain port is directly additive to the valve setting.
- Valve will reseat when the pilot pressure falls to 85% of the cracking value.
- Port 1 and port 2 are fully sealed from port 3 and port 4. Ports 3 and 4 are positively sealed.
- Leakage rate between port 1 and port 2 is very low, typically less than 10 drops/min. at 5000 psi (0,7 cc/min at 350 bar).
- All ports will accept 5000 psi (350 bar).
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge
  machining variations.

# **PERFORMANCE CURVES**

