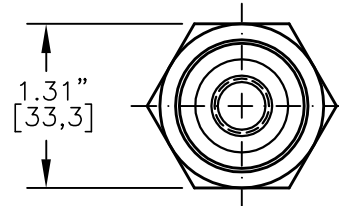
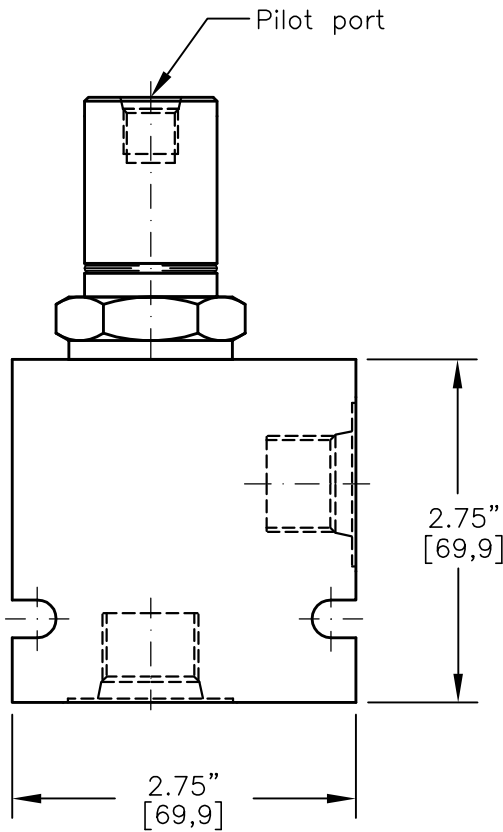
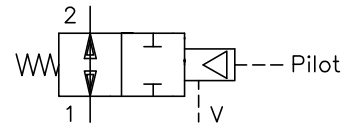
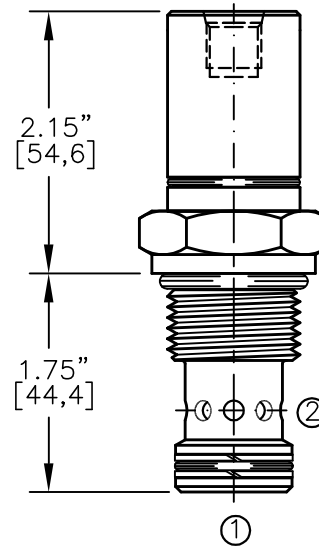




# AIR OPERATED DIRECTIONAL CONTROL VALVE N,0, DIRECT ACTING, SPOOL TYPE (2/2)



TORQUE to 80/90 Ft-Lb.  
[100/120 N-m]



FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0-013.1

## AODV-12-X-01-X-XX

BASIC

SIZE

12 = 1.062"-12 UNF

SEALS

N = BUNA "N"

V = VITON

SPOOL

01=NORMALLY CLOSED SPOOL  
2-WAY, 2-POSITION

PILOT PORT

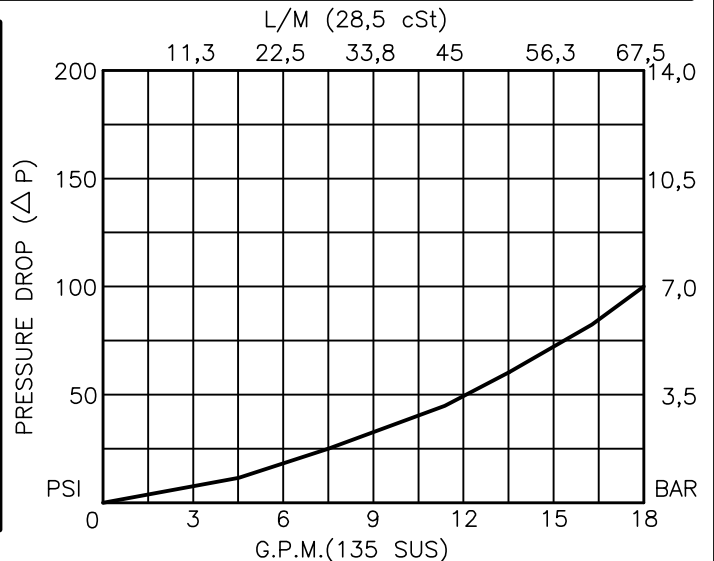
1P = 1/8" NPTF  
1B = G 1/8" BSPP  
4T = SAE - #4

PORTS

0 = CARTRIDGE ONLY  
04BX = G 1/2" BSPP  
06BX = G 3/4" BSPP  
10TX = SAE - #10  
12TX = SAE - #12

"A" - ALUM. HOUSING

"S" - STEEL HOUSING





## AIR OPERATED, NORMALLY OPEN, DIRECT ACTING, SPOOL TYPE (2/2)

### DESCRIPTION

This unit is a NORMALLY OPEN, TWO POSITION, screw-in cartridge style, direct acting spool type, air or hydraulic operated, spring return, hydraulic directional control valve.

### OPERATIONS

When pilot piston is not actuated, this valve allows flow between ports 2 to 1.

When pilot piston is pressurized, the spool in this valve is shifted and allows no flow between ports 2 to 1.

Port #1 can be pressurized to 18.5 x PILOT PORT pressure.

### FEATURES AND BENEFITS

Hardened precision fitted spool & sleeve provides reliable, long life. Corrosion free pilot piston assembly allows this valve to be operated by air or any type of hydraulic fluids.

Pilot piston is isolated from hydraulic fluid with high pressure seals.

All external carbon steel parts are plated for longer life against the elements.

All cartridge valves are 100% functionally tested.

### SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]

PROOF PRESSURE: 10,000 PSI [700 Bar]

FLOW: 16.0 GPM [60 l/m] See performance chart.

INTERNAL LEAKAGE: 5 cu.in/min [82 cc/m] @ 5,000 PSI [350 Bar]

VALVE HOUSINGS: 2500 PSI [175 Bar] = Aluminum - Anodized.

5000 PSI [350 Bar] = Steel - Unplated.

OPERATING TEMPERATURE: -40° to +250° F. [-40° to +120° C.]

OPERATING MEDIA: All general purpose hydraulic fluids such as MIL-H-5606, SAE-#10, SAE-#20, etc.

PILOT OPERATING MEDIA: Air or hydraulic fluid.

PILOT PISTON AREA RATIO TO SYSTEM PRESSURE AREA IS: 18.5 to 1.

PILOT OPERATING PRESSURE IS: 50 PSI to 250 PSI air.

50 PSI to 3000 PSI hydraulic.

SEAL KIT: SKN-1222 Buna "N"

SKV-1222 Viton

INSTALLATION: No restrictions.

WEIGHT: 0.60 lb [0,30 kg] cartridge only.

VALVE CAVITY: #C1220, See Page 0-013.0.