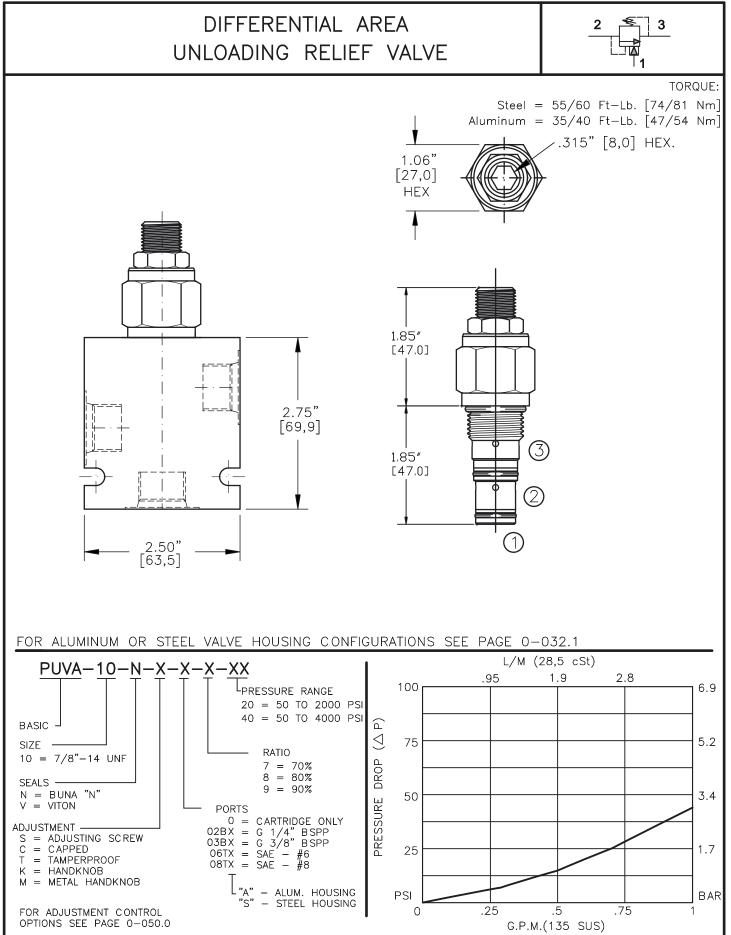
PUVA-10

BUCHER hydraulics





DIFFERENTIAL AREA UNLOADING RELIEF VALVE

DESCRIPTION

This unit is a DIRECT ACTING, SCREW IN CARTRIDGE STYLE, HYDRAULIC 3-WAY, 2 POS. UNLOADING VALVE, which can be dumped or unloaded via a remote pilot signal. This valve is used as the pilot stage of a two-stage unloading valve.

OPERATIONS

This valve provides a fixed percentage between load and unload pressures. The fixed differential area is provided by the pilot spool which has a greater area than the pilot seat. When pressure at the pilot port 1 reaches the spring setting, the valve opens and unloads pressure port 2 to tank port 3. The greater area of the spool holds the pilot poppet off its seat until pressure at pilot port 1 drops to the RATIO percentage of the spring setting, at which point the valve closes. This valve to be used as a pilot valve in hydraulic unloading valve applications.

FEATURES AND BENEFITS

Hardened precision fitted spool and cage provides reliable, long life. A unibody cage construction provides very low hysteresis and reliable operation. All external carbon steel parts are plated for longer life against the elements. All cartridge values are 100% functionally tested.

Industry common cavity.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar] PROOF PRESSURE: 10,000 PSI [700 Bar] FLOW: 1.0 GPM [3,8 L/M] nominal. See performance chart. INTERNAL LEAKAGE: 5 drops/min [.25 cc/m] @ PORT1. DEFINITION OF CRACK: evident at 0.06 GPM [0.25 LPM] 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. INSTALLATION: No restriction. FILTRATION: 25 microns or better. SEAL KIT NUMBER: SKN-1022 for Buna "N". SKV-1022 for Viton. WEIGHT: 0.42 Ibs [0,19 kg] cartridge only. VALVE CAVITY: #C1030, See Page 0-032.1.

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