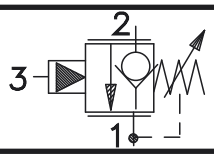
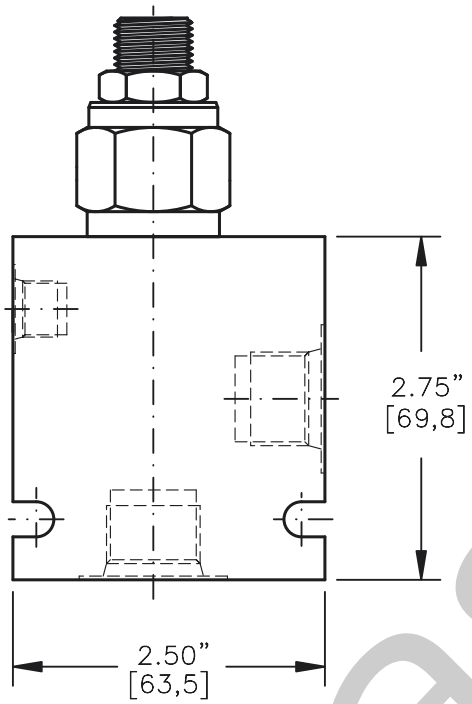
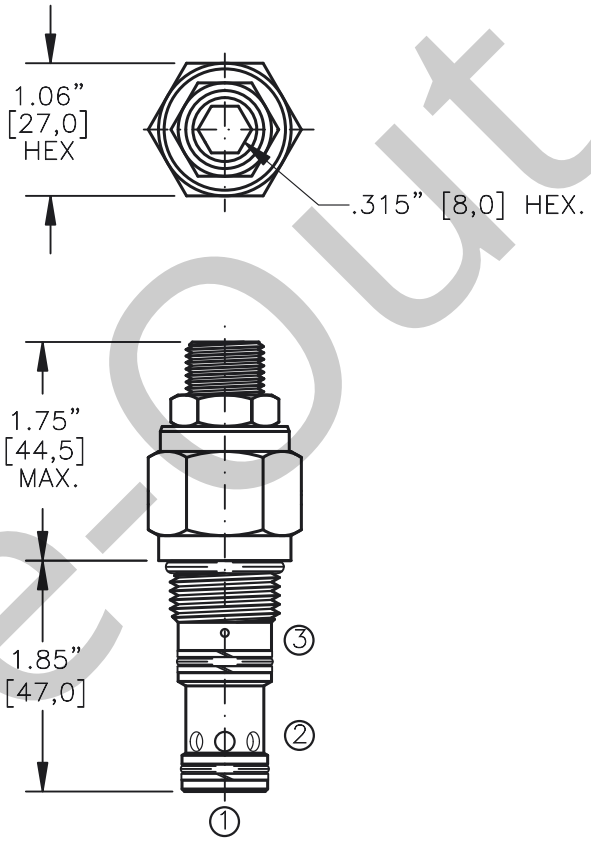
BUCHER hydraulics

PRESSURE SEQUENCE VALVE
POPPET TYPE, SOFT–SHIFT, HI–LO SEQUENCE



TORQUE:
Steel = 55/60 Ft–Lb. [74/81 Nm]
Aluminum = 35/40 Ft–Lb. [47/54 Nm]





Phase-Out

FOR ALUMINUM OR STEEL VALVE HOUSING CONFIGURATIONS SEE PAGE 0–022.1

HLSV–10–X–X–X–XX

BASIC

SIZE
10 = 7/8"–14 UNF

SEALS
N = BUNA "N"
V = VITON

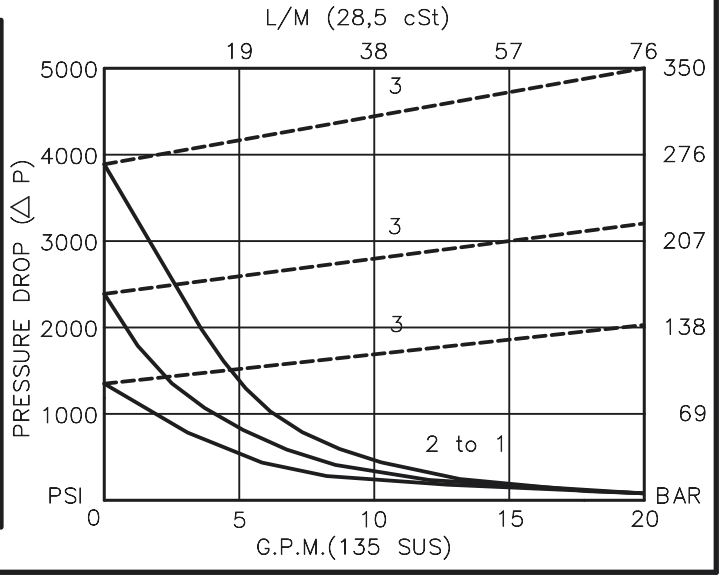
ADJUSTMENT
S = ADJUSTING SCREW
C = CAPPED
T = TAMPERPROOF
K = HANDKNOB
M = METAL HANDKNOB

PRESSURE RANGE
15 = 300 TO 1500 PSI
25 = 1000 TO 2500 PSI
40 = 2000 TO 4000 PSI

PORTS
0 = CARTRIDGE ONLY
03BX = G 3/8" BSPP
04BX = G 1/2" BSPP
08TX = SAE – #8
10TX = SAE – #10

"A" – ALUM. HOUSING
"S" – STEEL HOUSING

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0–050.0



BUCHER hydraulics

PRESSURE SEQUENCE VALVE
POPPET TYPE, SOFT–SHIFT, HI–LO SEQUENCE.

DESCRIPTION

This unit is a PILOT OPERATED, SCREW IN CARTRIDGE STYLE, POPPET TYPE, ADJUSTABLE, SOFT SHIFT (shock free), HYDRAULIC HI–LO PRESSURE SEQUENCE VALVE.

OPERATIONS

This valve blocks flow from port #2 to port #1 until sufficient pressure is present at port #3 to force the diffirential area poppet to shift thus opening the valve very gradually and without any shock. This valve is used in a two pump circuit to load and unload low press. high volume pump, from a high press. low volume pump pressure signal.

FEATURES AND BENEFITS

Leakproof screw adjustment.
Adjustment screw can not be backed out of the valve.
Overset protection – spring can not go solid.
Hardened precision fitted poppet & cage provides reliable, long life.
A unibody cage construction provides very low hysteresis, dependable and reliable operation.
All external carbon steel parts are plated for longer life against the elements.
Valve is available with screw, tamperproof, capped and handknob adjustments.
All cartridge valves are 100% functionally tested.
Industry common cavity.

SPECIFICATIONS

OPERATING PRESSURE: 5,000 PSI [350 Bar]
PROOF PRESSURE: 10,000 PSI [700 Bar]
FLOW: 20.0 GPM [76 L/M] nominal. See performance chart.
INTERNAL LEAKAGE: 10 cu.in./min [164 cc/m] @ 85% of crack pressure.
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–1027 for buna "N".
SKV–1027 for viton.
WEIGHT: 0.46 lb [.21 kg] cartridge only.
VALVE CAVITY: #C1025, See Page 0–022.0.

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Phase-Out