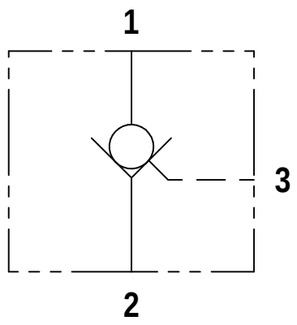
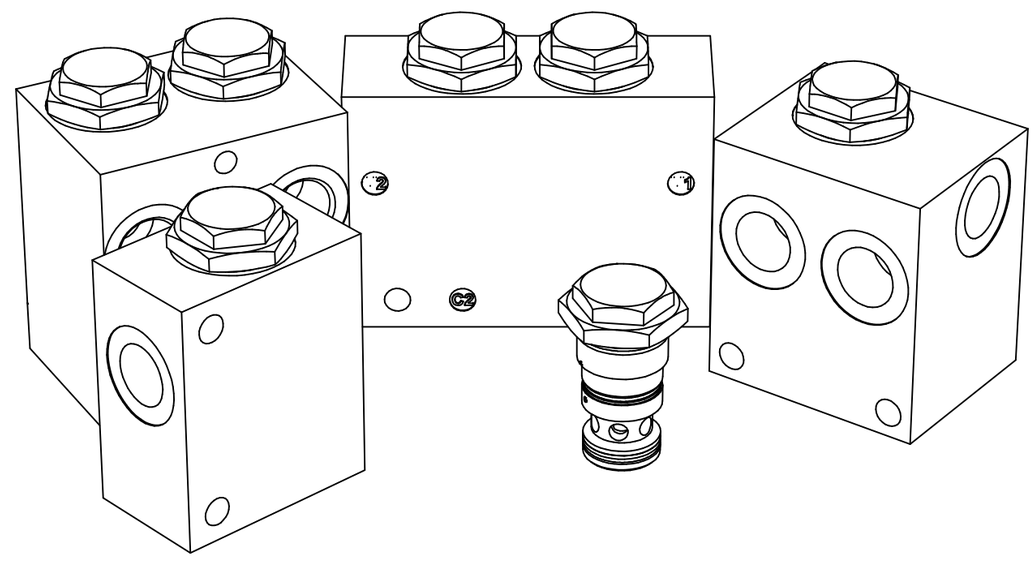
TUCSON HYDROCONTROLS

CK 125

5

FLUID POWER SYMBOL





APPLICATION

Pilot check valves allow flow to pass in one direction, with a low pressure drop, then prevent reverse flow until pilot pressure is applied. There are many applications for this valve type, the most common being to lock and hold a cylinder, or another hydraulic actuator, in position. The CK125 is a cartridge valve ideally suited for fitting directly into a cylinder, giving economy of installation, direct control of cylinder movement and ease of servicing.

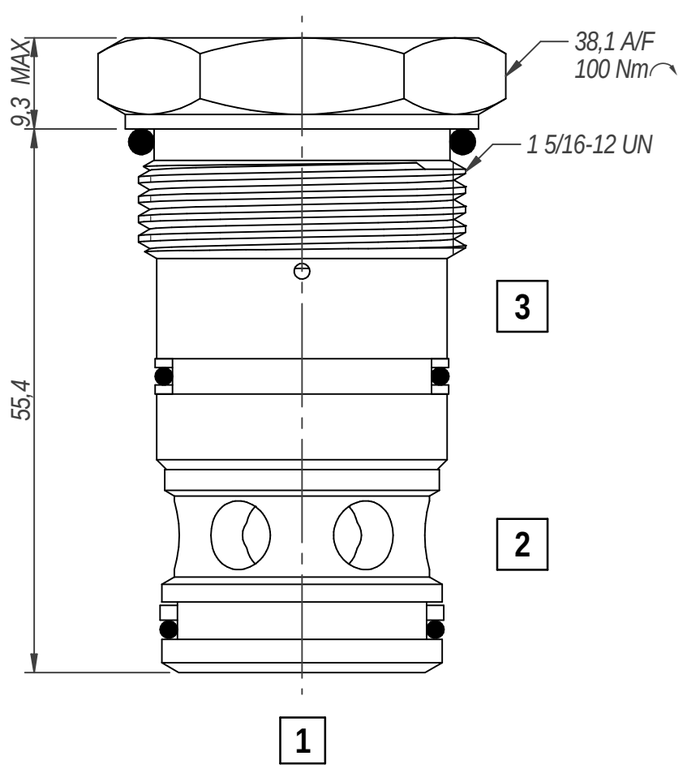
OPERATION

Pressure on the valve port causes the poppet to lift against the spring force, allowing the flow to the cylinder port. Reverse flow is prevented by the poppet reseating. Pressure applied to the pilot port will overcome the cylinder port pressure and lift the poppet from its seat, allowing flow from the cylinder to valve port.

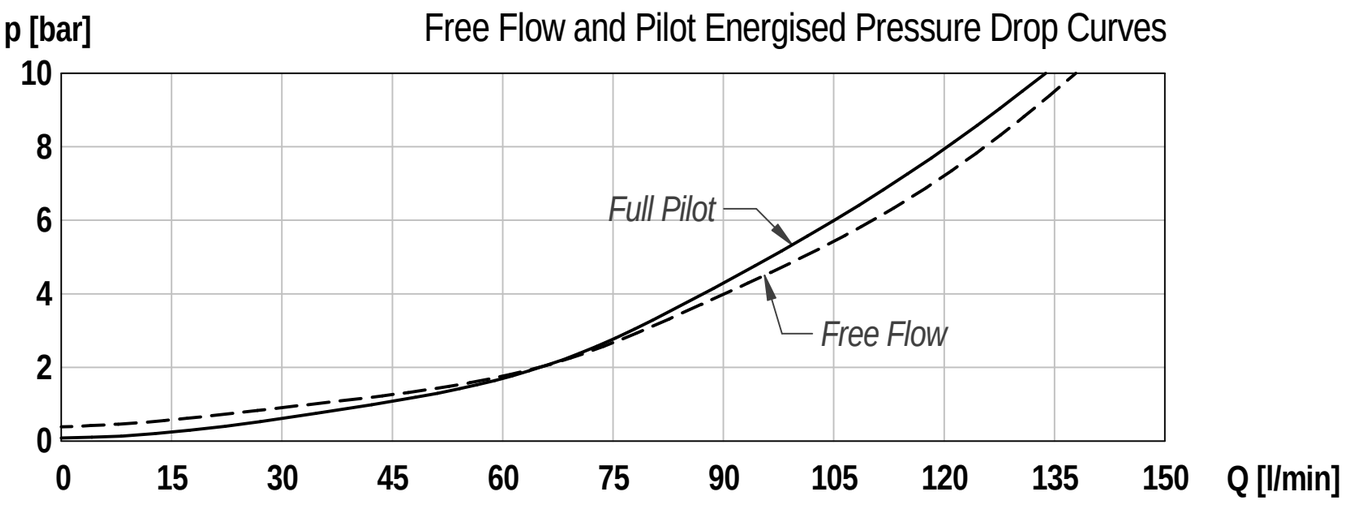
FEATURES

Hardened and ground poppet gives excellent flow capability for valve size, positive sealing and long working life. Cartridge construction allows installation in actuators, manifold blocks and hydraulic Integrated Circuits. The valve fits the same cavity as the counterbalance valve. Seal on piston prevents leakage between Port 2 and Port 3.

DIMENSIONS



CHARACTERISTICS. Figures Based on: Oil Temp = 40'C, Viscosity = 40 cSt



General Specifications

Description	pilot check valve
Construction	Screw-in Cartridge Construction for Cavity
Mounting	1 5/16 – 12 UN screw thread for cartridge Threaded ports for housings.
Installation Position	any
Tightening Torque	100 Nm
Ambient Temp.	-20°C to +50°C
Cartridge Material	Working parts: Hardened, ground steel External surfaces: Zinc plated
Manifold Material	Aluminium or SG Iron
Cavity Number	TH877 (Refer Cavities Section)
Weight	CK 125 Cartridge: 0.08 kg CK 125 3W N 3: 0.37 kg CK 125 3W N 3 IN1: 0.42 kg CK2 125 3W N 3: 0.67 kg

Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.
Max. Pressure	350 bar
Rated Flow	125 lpm
Max. Contamination Level	BS5540/4 Class 18/16/13 (25µ nominal)
Viscosity Range	5 to 500 cSt
Leakage Flow	Less than 0.3 ml/min (5 dpm)
Hydraulic Fluid Temp.	-20°C to +90°C (Standard Seals)
Mounting	Line/Subplate
Peak Pressure	400 bar
Max. Flow	150 lpm
Seal Kit Number	SKCK125 (Nitrile)

ORDERING CODE

CK125 6W N 3 IN1

BASIC CODE
CK 125 - Cartridge/Line Body
CK2 124 - Dual Body
CK2 125 - Dual Body

PORT SIZE
6W: 3/4" BSP Ports
Omit for Cartridge/Subplate

INTERNAL PILOT
Omit for External Pilot

AREA RATIO
3: Ratio of 3:1

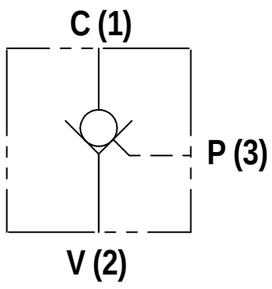
SEAL KIT
N: Nitrile

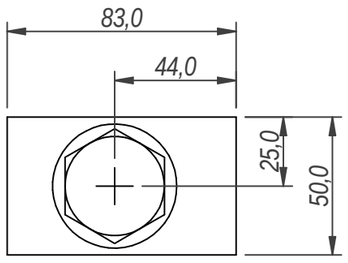
DIMENSIONS

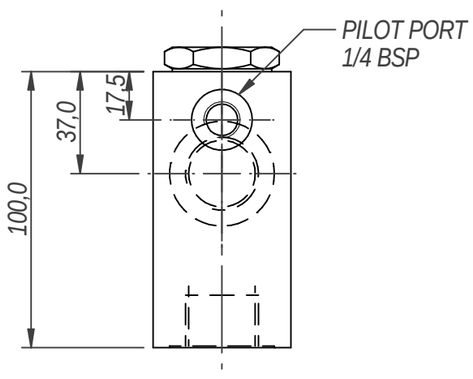
BASIC CODE: CK125 * 6W **

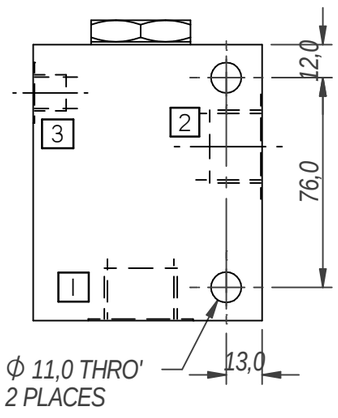
ONLY Body Part Numbers

Aluminium	SG Iron
3/4" BSPP - Z10070	3/4" BSPP - Z10070S







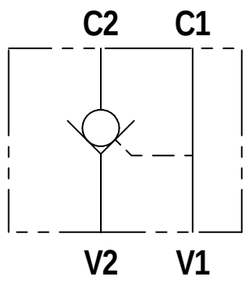


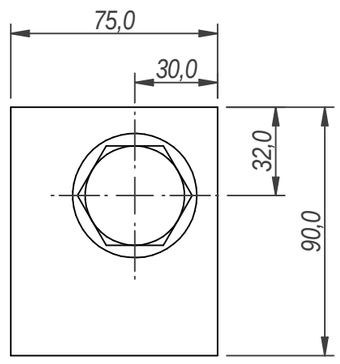
DIMENSIONS

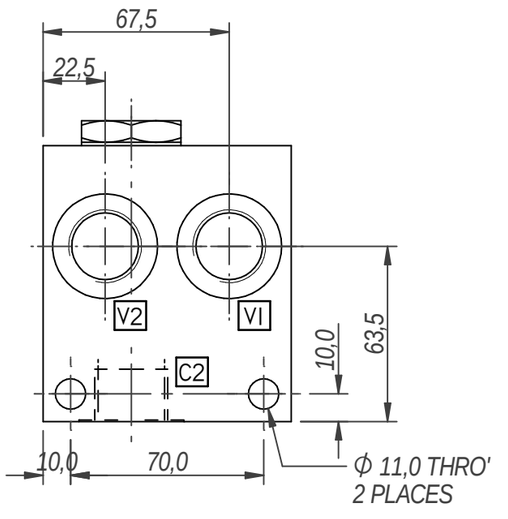
BASIC CODE: CK125 * 6W ** IN1

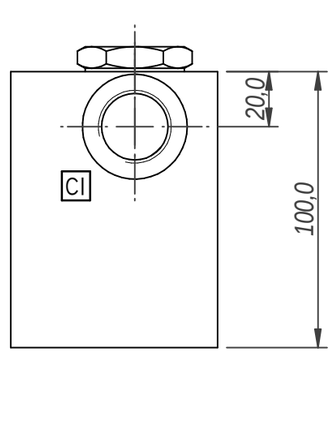
ONLY Body Part Numbers

Aluminium	SG Iron
3/4" BSPP - Z10148	3/4" BSPP - Z10148S







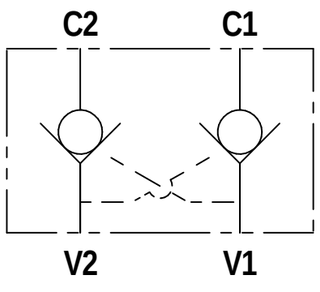


DIMENSIONS

BASIC CODE: CK2 124 * 6W **

ONLY Body Part Numbers

Aluminium	SG Iron
3/4" BSPP - Z10071	3/4" BSPP - Z10071S



DIMENSIONS

BASIC CODE: CK2 125 * 6W **

ONLY Body Part Numbers

Aluminium	SG Iron
3/4" BSPP - Z10052	3/4" BSPP - Z10052S