



The International Organisation
for Fluid Power and Motion
Control Professionals

THE INTERNATIONAL FLUID POWER
SOCIETY OF AUSTRALIA
INCORPORATED

ISO/CETOP Fluid Power Symbols

Basic Symbols Shaft, lever, rod, piston Spring Throttling, viscosity dependent Restriction, not viscosity dependent Flow direction Direction of rotation Variable setting Working Lines - Pressure & Return Pilot Control Line - External/Internal drain line Enclosure of two or more functions contained in one unit Flexible Line Connection Tube & Pipe Line Connection Line Crossing - not connected Hydraulic source of energy Pneumatic source of energy	Cylinders Single acting Double acting Differential cylinder Cylinder with cushion Check valve, not spring loaded Check valve, spring loaded Pilot controlled check valve Pilot controlled opening Pilot controlled closing Example Simplified	Flow Control Restrictor, fixed Restrictor, variable Restrictor, not viscosity dependent Throttle-check valve 3-way by-pass flow regulator Flow divider	Solenoid Mechanical Roller Direct pressure Pressure rise With transient intermediate position Mechanical feed back Hand operated Lever Roller Hydraulic operated pressure rise Pneumatic operated Direct pressure Solenoid Motor operated Solenoid, hydraulic-operated PVEO PVEM PVEH Pneumatic, hydraulic-operated Mechanical detent Spring return