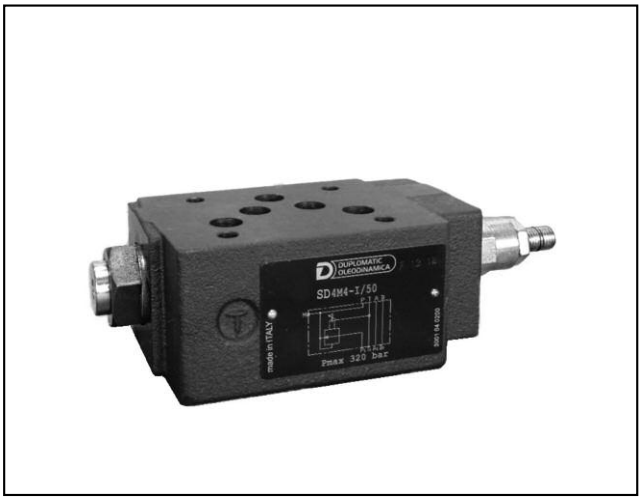


SD4M

DIRECT OPERATED SEQUENCE VALVE

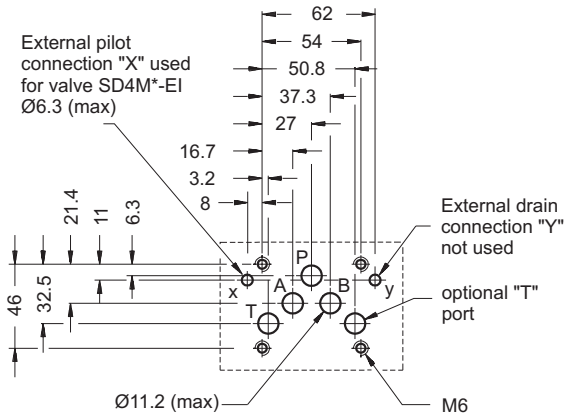
SERIES 50

MODULAR VERSION ISO 4401-05

p max **320** bar
Q max (see table of performances)

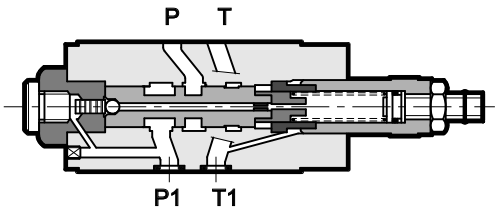
MOUNTING INTERFACE

ISO 4401-05-05-0-05
(CETOP 4.2-4-R05-320)



The valve with internal pilot can be installed both on ISO 4401-05-04-0-05 or ISO 4401-05-05-0-05 type of mounting interface.

OPERATING PRINCIPLE



— The SD4M valve is a direct operated sequence valve of the spool type, made as a modular version with a mounting surface according to the ISO 4401 standards.

It is used to drive two or more actuators in succession. It is normally closed in rest position. On one side, the spool is subjected to the push of a small piston on which the line (P1) pressure acts and, on the other side, to the adjustment spring. When the pressure in line P1 reaches the calibrated value of the spring, the valve opens and allows passage of the fluid in the controlled line (P). The valve stays open until the pressure in the circuit drops below the set calibration value.

— Versions with internal or external pilot are available. The version with external pilot has the port “X” according to the ISO 4401-05-05-0-05 mounting interface.

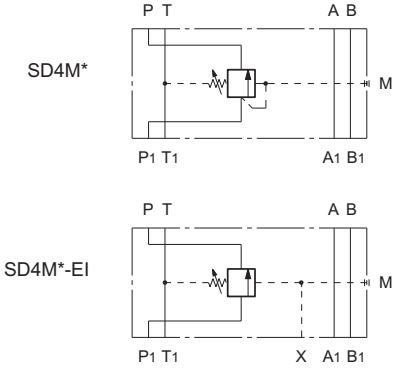
— It can be assembled quickly without use of pipes under the ISO 4401-05 directional solenoid valves.

— It is normally supplied with a countersunk hex adjustment screw, locking nut and maximum adjustment travel limiting device.

PERFORMANCES (measured with mineral oil of viscosity 36 cSt at 50°C)

Maximum operating pressure maximum pressure on port T	bar	320 10
Maximum flow rate in the controlled lines Maximum flow rate in the free lines	l/min	80 100
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass	kg	2,7

HYDRAULIC SYMBOLS



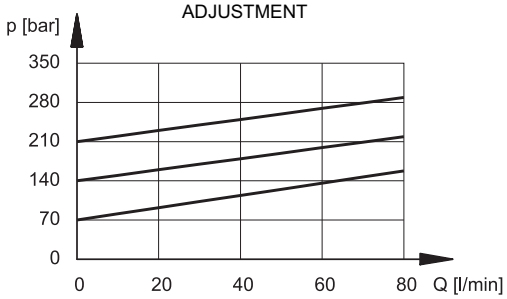
SD4M
SERIES 50

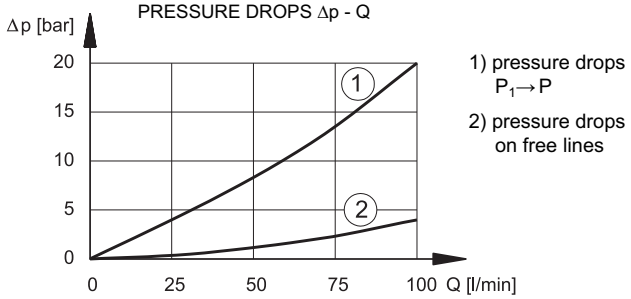
1 - IDENTIFICATION CODE

S	D	4	M		-		/		/	50	/	

- Direct operated sequence valve
- ISO 4401-05 size
- Modular version
- Pressure adjustment range:
  3 = up to 70 bar
  4 = up to 140 bar
  5 = up to 210 bar
- **EI** = version with external piloting (port "X" position according to mounting interface ISO 4401-05-05-0-05) (omit for standard version with internal piloting)
- **M1** = adjustment knob (omit for adjustment with hexagonal head screw)
- Series No. (the overall and mounting dimensions remain unchanged from 50 to 59)
- Seals:
  omit for mineral oils
  V = viton for special fluids

2 - CHARACTERISTIC CURVES (values obtained with viscosity of 36 cSt at 50°C)



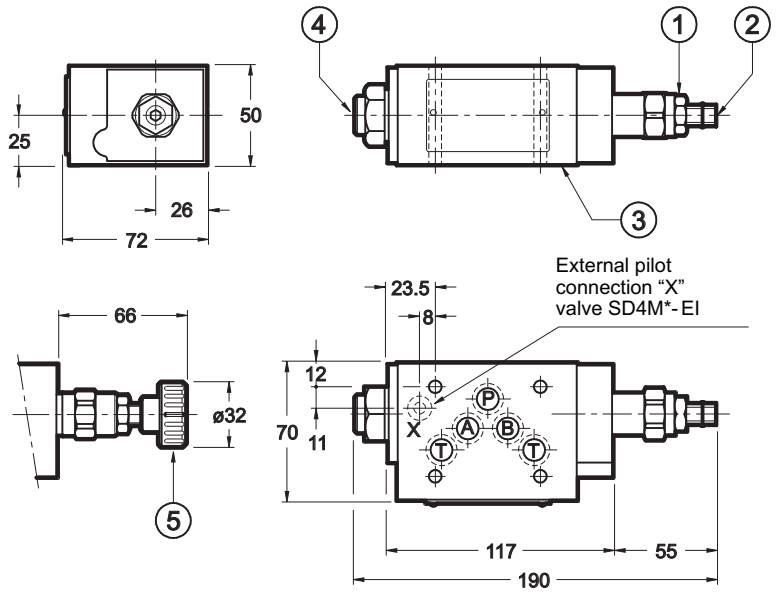


3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.
The fluid must be preserved in its physical and chemical characteristics.

4 - OVERALL AND MOUNTING DIMENSIONS

dimensions in mm



1	Locking nut. Spanner 17.
2	Countersunk hex adjustment screw. Spanner 5. Rotate clockwise to increase pressure.
3	Mounting surface with sealing rings: 5 OR type 2050 (12.42x1.78) 90 Shore N.1 OR type 2037 (9.25x1.78) 90 Shore (only for SD4M*-EI)
4	Pressure gauge port 1/4" BSP
5	Adjustment knob: M1

DUPLOMATIC MOTION SOLUTIONS

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