nexmatix™
PNEUMATICS FOR AN EFFICIENT WORLD

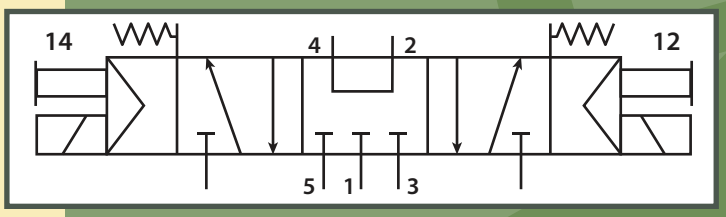
SAVINGS OUT OF THIN AIR

Nexmatix's new energy efficient ISO valves use on average 20-40% less compressed air than conventional directional control valves. The valves perform like conventional valves but use a unique spool configuration and on-board microelectronics to **recycle compressed air**. All valves conform to international standards 15407-1 and 15407-2.

	PRELIMINARY		26 mm
Valve Specifications	Cv (average)		0.8
	Flow Rate / Capacity		1400 l/min
	Minimum Operating Pressure		45 (3) psig (bar)
	Maximum Operating Pressure		145 (10) psig (bar)
	Minimum External Pilot Pressure		45 (3) psig (bar)
	Switching On Time		25 ms
	Switching Off Time		60 ms
	Maximum Switching Speed		60[1] cycles/min
Electrical Specifications	Supply Voltage		24V
	Power Consumption	Pulse	1.5 W
		Holding	0.7 W
	Current	Pulse (in-rush)	63 mA
		Holding	29 mA
	Allowable Voltage		± 10%
Other Specifications	Service Life		20M cycles
	Body Material		Al / ABS
	Seal Material		Buna-N
	Height		2.6 (67)[2] in (mm)
	Length		6.1 (155) in (mm)
	Width		1.0 (25) in (mm)
	Weight		14.3 (405) oz (g)

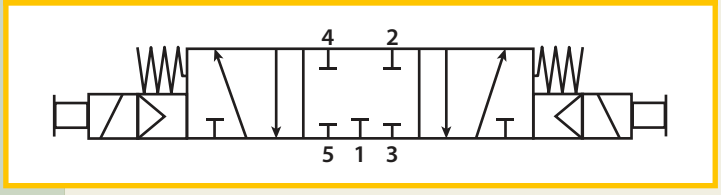
[1] Based on standard dwell. Contact Nexmatix if faster switching times are needed.
[2] Standard height for 15407-2 installed, height for 15407-1 is 3.0 (75)

OUR PROPRIETARY TECHNOLOGY



During each spool transition ports 2 and 4 are in fluid communication and the pressurized port begins the charge. In milliseconds the two sides equilibrate, recycling the compressed air left in the pressurized lines. After equilibration, a small amount of air is vented and the source air completes the cycle.

YELLOW



YELLOW Valve Ordering Options

Plug Type	Pilot	Part Number
M12 (15407-1)	Internal	NX-DCV-SM-YEL-1-I-V0-L0-S0-00
M12 (15407-1)	External	NX-DCV-SM-YEL-1-E-V0-L0-S0-00
Manifold (15407-2)	Internal	NX-DCV-SM-YEL-2-I-V0-L0-S0-00
Manifold (15407-2)	External	NX-DCV-SM-YEL-2-E-V0-L0-S0-00

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