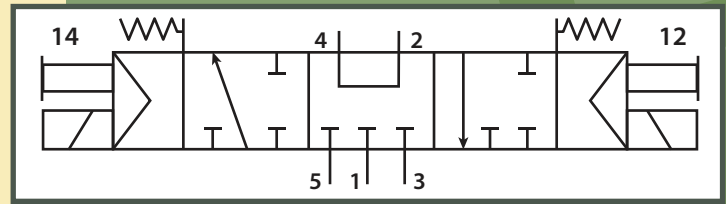


SAVINGS OUT OF THIN AIR



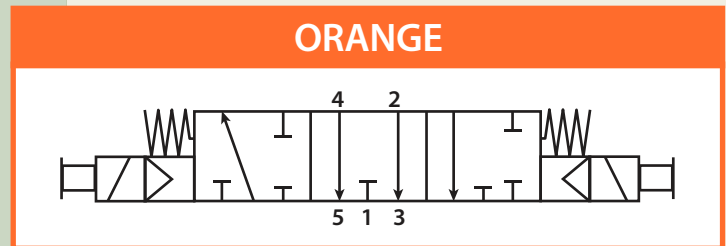
Nexmatix's new energy efficient ISO valves use on average 20-40% less compressed air than conventional directional control valves. The valves perform like conventional valves but use a unique spool configuration and on-board microelectronics to **recycle compressed air**. All valves conform to international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

NEW PROPRIETARY TECHNOLOGY



This exciting new technology provides Nexmatix energy savings to any single way actuation device. For intended use, a single acting chamber is mounted downstream of port 4 and a reservoir tank is located off of port 2. During each spool transition ports 2 and 4 are in fluid communication. Air that is typically exhausted is now deposited in the reservoir tank. This permits the air to be recycled during the next spool transition.

	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	115 (8) 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)	
	Weight	14.3 (405) oz (g)	



ORANGE Valve Ordering Options

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

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)