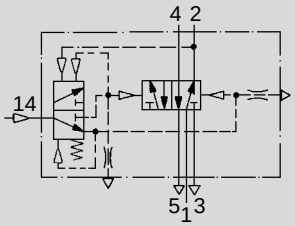
Binary Reduction Valve

With Sub-base

Type VLL-5-PK-3

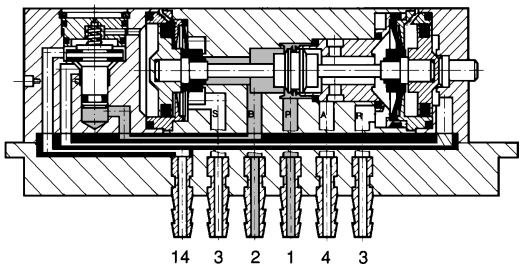


The valve consists of a 5 ported, 4 way, 2 position directional control valve and a pulse actuated shuttle valve. Pilot pressure applied at connection 14 shifts and holds the shuttle valve spool. When the pilot pressure is removed, pilot pressure from outlet 2 shifts the shuttle valve spool so the next pilot signal switches the valve back. Until this happens, the valve maintains its shifted position.

Each time pilot pressure is applied at 14, output signals 4 and 2 change.

Note: If the supply pressure at 1 is shut off and one or more control signals are received at 14, connection 1 will continue to open to 2 when the operating pressure at 1 is restored.

If no pilot pressure is received by 14, the previous position is maintained even if the operating pressure at 1 is restored.



1 (P) = Supply Port
4, 2 (A, B) = Working or Outlet Port
5, 3 (R, S) = Exhaust Port
14 (Z) = Pilot Port

Order Number	Part No./Type	4606 VLL-5-PK-3
Medium		Compressed air (filtered, lubricated or unlubricated)
Mounting		Two holes through sub-base or manifold mounting
Connection	Working Ports	Barbed fitting for 3 mm tubing
	Pilot Port	Barbed fitting for 3 mm tubing
Orifice Size		0.10 in / 2.5 mm
C_V Factor (P → A)		0.105 C_V / 105 l/min
Supply Pressure Range		45 to 120 psi / 3 to 8 bar
Pilot Pressure Range		See graph (next page)
Response Time at 90 psi / 6 bar		20 ms
Minimum Signal Period		10 ms
Design		Seat valve
Temperature Range		32 to 140°F / 0 to +60°C
Materials		Housing: Al, plastic. Sub-base: Plastic, brass. Seals: Buna N
Weight		0.287 lb / 0.130 kg