

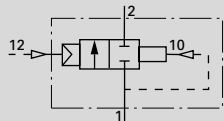
Valves for Special Applications

2/2 - 2 Way, 2 Position Valves G 1/4 to G 1 and 1/4" to 1" NPT

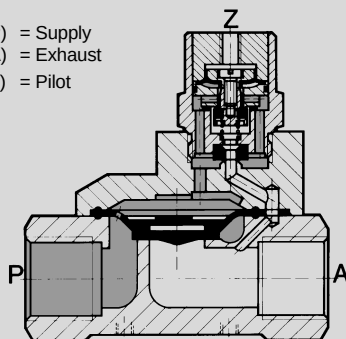
FESTO

Single Pilot Valve

Brass Housing (NPT or ISO connections)
Type VLX-...-MS



1 (P) = Supply
2 (A) = Exhaust
12 (Z) = Pilot



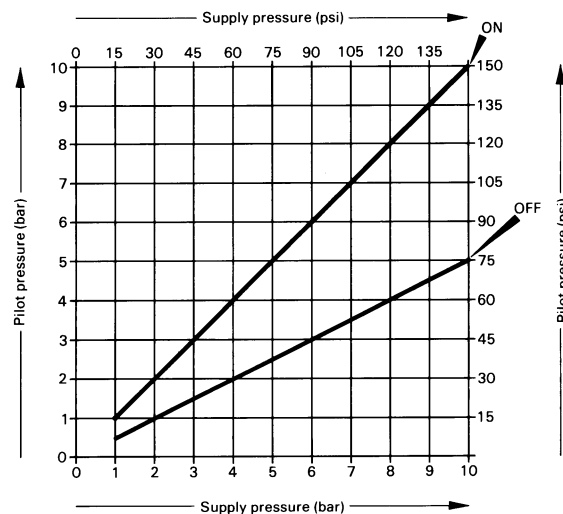
The valve is actuated only while pilot pressure is applied.

Note: When pressure is applied, the return diaphragm opens briefly.



Type VLX-...-MS

Minimum Pilot Pressure versus Supply Pressure



Note: Minimum supply pressure is 15 psi / 1 bar.

Order Number	ISO Connection (Brass Housing) NPT Connection (Brass Housing) Hardware	34432 VLX-2-1/4-MS 34922 VLX-2-1/4-MS-NPT 9769 HRM-1	34433 VLX-2-3/8-MS 34923 VLX-2-3/8-MS-NPT	34434 VLX-2-1/2-MS 34924 VLX-2-1/2-MS-NPT	34435 VLX-2-3/4-MS 34925 VLX-2-3/4-MS-NPT	34436 VLX-2-1-MS 34926 VLX-2-1-MS-NPT 9770 HRM-2
Medium		Compressed air (filtered, lubricated or unlubricated)				
Mounting		Two holes through housing or on mounting bracket or in-line				
Connection	Working Ports	1/4 NPT / G 1/4 ISO	3/8 NPT / G 3/8 ISO	1/2 NPT / G 1/2 ISO	3/4 NPT / G 3/4 ISO	1 NPT / G 1 ISO
	Pilot Port	M5				
Orifice Size		0.51 in / 13 mm	0.51 in / 13 mm	0.51 in / 13 mm	0.79 in / 20 mm	0.98 in / 25 mm
C _V Factor 1 → 2 (P → A)		2.4 C _V / 2400 l/min	3.9 C _V / 3800 l/min	4 C _V / 4000 l/min	10.7 C _V / 10500 l/min	14.2 C _V / 14000 l/min
Flow Rate for Water		6.6 gal/min / 25 l/min	9.6 gal/min / 36.5 l/min	14.3 gal/min / 54 l/min	34 gal/min / 130 l/min	52 gal/min / 195 l/min
Supply Pressure Range*		15-150 psi / 1-10 bar				
Pilot Pressure Range		See graph				
Min. Differential Pressure to Open		12 psi / 0.8 bar				
Response Time at	On	20 ms	20 ms	20 ms	30 ms	30 ms
	Off	12 ms	12 ms	12 ms	20 ms	30 ms
Design		Diaphragm seat valve				
Materials		Housing: Brass; Diaphragm: Buna N				
Weight	Brass Housing	1.213 lb / 0.550 kg	1.157 lb / 0.525 kg	1.102 lb / 0.500 kg	2.734 lb / 1.240 kg	2.425 lb / 1.100 kg

* 14 to 140°F / -10 to +60°C

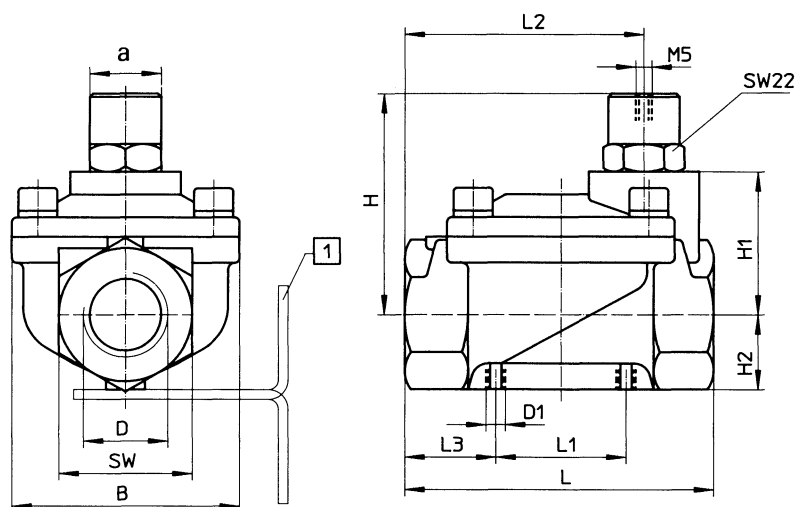
Valves for Special Applications

Dimensions, Type VLX-...-MS

Type VLX-...-MS

Max. tightening torque:

Connection A and P - 1/4" NPT / G 1/4 ISO.....43.40 lb in / 5 N·m
 3/8" NPT / G 3/8 ISO.....133.20 lb in / 15 N·m
 1/2" NPT / G 1/2 ISO.....177.60 lb in / 20 N·m
 3/4" NPT / G 3/4 ISO.....266.40 lb in / 30 N·m
 1" NPT / G 1 ISO.....355.20 lb in / 40 N·m



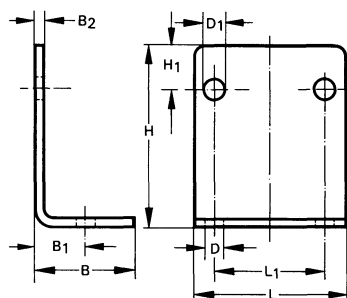
Dimensions

a 0.866 in / 22 mm

① Mounting Bracket Type HRM-...
 SW = wrench size, mm

Valve Type	B in / mm	D in / mm	D ₁	H in / mm	H ₁ in / mm	H ₂ in / mm	L in / mm	L ₁ in / mm	L ₂ in / mm	L ₃ in / mm	SW in / mm
VLX-2-1/4-MS	1.89 / 48	1/4 NPT / G 1/4 ISO	M 4	2.22 / 56.5	1.28 / 32.5	0.61 / 15.5	2.64 / 67	0.98 / 25	1.85 / 47	0.83 / 21	1.06 / 27
VLX-2-3/8-MS	1.89 / 48	3/8 NPT / G 3/8 ISO	M 4	2.22 / 56.5	1.28 / 32.5	0.61 / 15.5	2.64 / 67	0.98 / 25	1.85 / 47	0.83 / 21	1.06 / 27
VLX-2-1/2-MS	1.89 / 48	1/2 NPT / G 1/2 ISO	M 4	2.22 / 56.5	1.28 / 32.5	0.61 / 15.5	2.64 / 67	0.98 / 25	1.85 / 47	0.83 / 21	1.06 / 27
VLX-2-3/4-MS	2.76 / 70	3/4 NPT / G 3/4 ISO	M 6	2.68 / 68	1.73 / 44	0.91 / 23	3.74 / 95	1.57 / 40	2.89 / 73.5	1.10 / 28	1.61 / 41
VLX-2-1-MS	2.76 / 70	1 NPT / G 1 ISO	M 6	2.68 / 68	1.73 / 44	0.91 / 23	3.74 / 95	1.57 / 40	2.89 / 73.5	1.10 / 28	1.61 / 41

Type HRM-...



Hardware	B	B ₁	B ₂	D	D ₁	H	H ₁	L	L ₁
Type	in / mm	in / mm	in / mm	Dia in / mm	Dia in / mm	in / mm	in / mm	in / mm	in / mm
HRM-1	0.98 / 25	0.49 / 12.5	0.08 / 2	0.23 / 6	0.20 / 5	1.46 / 37	0.39 / 10	1.57 / 40	0.98 / 25
HRM-2	1.37 / 35	0.69 / 17.5	0.12 / 3	0.27 / 7	0.27 / 7	2.60 / 66	0.63 / 16	2.16 / 55	1.57 / 40