Series VMS Slide Valve

Cv = .73 - 4.10

Series VMS, 3-way/2-position
Ports M5, 1/8", 1/4", 3/8", 1/2", 3/4" NPTF

The VMS series slide valves are commonly used upstream of FRL units to ease repair and replacement. They can also be used in situations requiring the exhausting of all downstream air. This would assist in maintenance applications where ball valves may be too large and bulky to maneuver in tight assembly spaces. The exhausting of downstream air while simultaneously blocking inlet flow helps in building component groups to be tested in stages, and assembled later onto the main body of a machine.

TECHNICAL SPECIFICATIONS

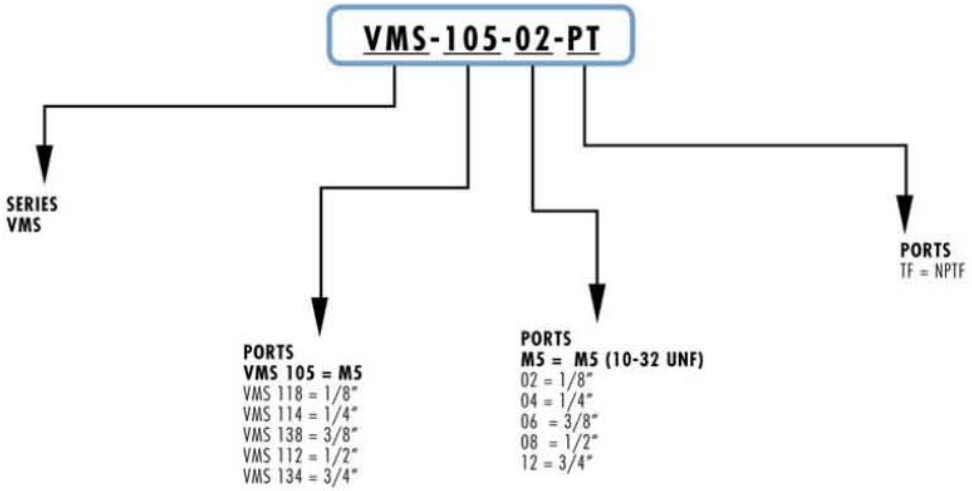
Valve group	3-way/2-position
Construction	Shuttle slide
Mounting	In/line thread ports
Materials	Nickel-Plated brass body, Buna-N seals
Threaded port sizes	M5, 1/8", 1/4", 3/8", 1/2" 3/4" NPTF
Installation	In-line
Operating temperature	32°F - 175°F, (dry air necessary down to _4° F)
Fluid	Filtered air
Lubricant	Not required; otherwise oil compatible with Buna-N, (3°- 10° E) (ISOVG32 grade: 32 centistrokes)

PNEUMATIC DATA

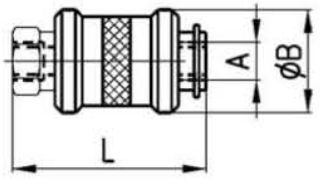
Operating pressure	0 - 10 bar (0 - 145 psi))			
Nominal pressure	6 bar (87 psi)			
Nominal flow	*Qn Series VMS:	P→A M5 =	140 NL/min (4.9 SCFM)	1/8" = 600 NL/min (21.2 SCFM)
		1/4" =	1200 NL/min (42.4 SCFM)	3/8" = 2100 NL/min (74.1 SCFM)
		1/2" =	3350 NL/min (118.5 SCFM	3/4" = 5350 NL/min (189 SCFM
		A→R M5 =	145 NL/min (5.12 SCFM)	1/8" = 740 NL/min (26.2 SCFM)
		1/4" =	1780 NL/min (62.9 SCFM)	3/8" = 1830 NL/min (64.7 SCFM)
		1/2" =	4030 NL/min (142.5 SCFM)	3/4" = 5000 NL/min (176.8 SCFM)
Cv Rating (Inlet flow)	Series VMS:	M5 =	0.15	1/8" = 0.63
		1/4" =	1.26	3/8" = 2.21
		1/2" =	3.53	3/4" = 5.62

*Qn flowrate (SCFM) determined with a supply pressure of 6 bar (87 psi), and with a pressure drop of 1 bar (14.5 psi).
Exhausting flowrate (A→R), determined with an inlet pressure of 6 bar (87 psi), while exhausting to atmosphere.

CODING FOR SLIDE VALVES



Valves Mod. VMS



DIMENSIONS (MM)

Mod.	A	ø B mm	L mm
VMS-105-M5	M5	15	33.5
VMS-118-02PT	1/8"	25	48
VMS-114-04PT	1/4"	30	58
VMS-138-06PT	3/8"	35	70
VMS-112-08PT	1/2"	40	80
VMS-134-12PT	3/4"	49	83