

Microprocessor control electronics
High dynamic regulation
On-board diagnostics
CE conformance

Technical data

Medium

Filtered unlubricated air.
 Note: Using lubricated air may affect dynamic response and lifespan of the valve.

Filtration

Recommended 5 μ

Operation

Moving coil

Connection

1/4 NPT and G1/4"

Flow rate

40 scfm (1200 l/min)
 for p1: 90 psi and p2: 75 psi

Mounting position

Any, preferred solenoid on top

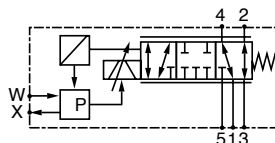
Flow direction

1 $\rightarrow$ 4+2 $\rightarrow$ 3; 1 $\rightarrow$ 2+4 $\rightarrow$ 5

Operating temperature:

32°F to 140°F (0°C to 60°C)
 No condensation permissible

Symbol



Materials

Electronic housing: plastic (PAA)
 valve housing: aluminum alloy
 seals: NBR
 solenoid surface: steel

Degree of protection

IP65

Operating pressure [p1]

0 to 175 psi

Leakage

For center position 35 scfh with
 p1: 145 psi

Reaction time

At p1 = 90 psi and 100% stroke
 free exhausting:

Dead time: 3 ms

Rise time (10% - 90%): 5ms

Electromagnetic compatibility

The valve conforms to the
 EC requirements EN50081-
 2 (emission) and EN50082-2
 (disturbance noise). For this
 specification shielded cables have
 to be used.

Electrical information

Power supply requirements

Supply voltage U_s [VDC]	18 to 32
Current consumption with max. stroke 50 Hz (A)	2.0 at 24 VDC
Current consumption in steady state [A]	0.1 at 24 VDC

Input signal

Analog (single ended types)

Voltage signal	U_E [V]	0 to 10
Input resistance	R_i [k Ω]	110
Current signal	I_E [mA]	(0) 4 to 20
Load resistance	[Ω]	500
Analog (differential types)		
Voltage signal	U_E [V]	0 to 10, -5 to +5
Input resistance	R_i [k Ω]	110
max. Input voltage range	[V]	-10 to 40

Output signal

Spool position feedback (voltage)

Voltage signal slide position	U_A [V]	0...10 V = min....max. stroke
Max. output current	I_A [mA]	1

Spool position feedback (current)

Current signal slide position	I_A [mA]	0 to 20 mA = min....max. stroke
Load resistance	R_L [Ω]	recommended 500



Order information

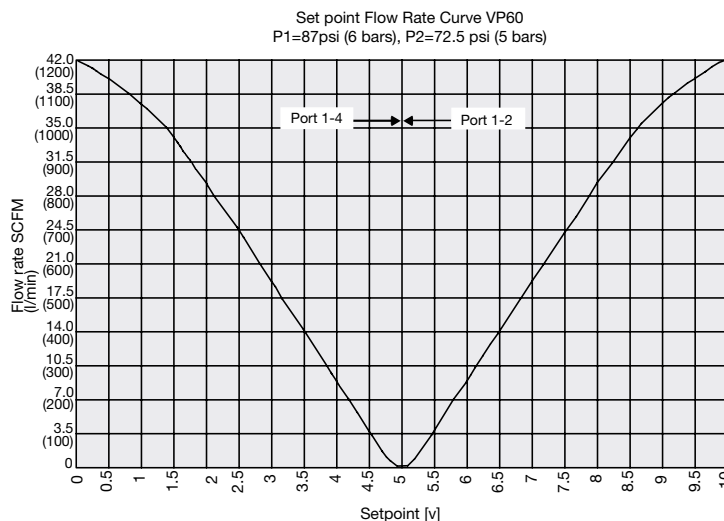
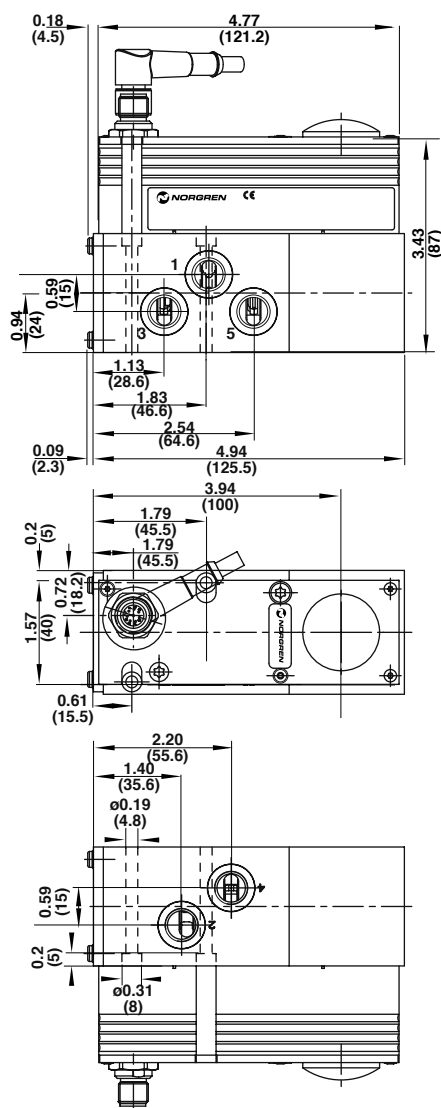
VP Proportional valve	60 Family code	xx Flow range	x Unit	x Port size	x Input signal*	x Feedback**	x Power supply	x Electrical connector	xxxx Options
VP	60	10 = 1000	L = liter/ min	J = G 1/4" K = G 1/4 NPT	1 = 0-10V 4 = 4-20- mA 6 = -5V to +5V 7 = 0-10V	6 = 0-10V and 4-20mA	1 = required	M = M12 x 1 8-pin	0000 = no options B200

*Input signal codes 6 and 7 are differential input versions.

** Both 0-10V and 4-20 mA feedback signals are available simultaneously.

Accessories

Description	Specification	Type
cordset	M12 x 1, 8-pin, 5m, straight	0250811000000000
cordset	M12 x 1, 8-pin, 5m, 90° angle	0250813000000000



Dimensions in inches (mm)