



Valve Accessories & Controls

**Valve Accessories & Controls**

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**V100 Technical Specifications**

	<b>Pneumatic V100P</b>	<b>Electropneumatic V100E &amp; IS</b>	<b>EX Control Air V100EX</b>	<b>EX ABB V100EX</b>	<b>WatsonSmith 422 V100FF</b>
Input Signal	3-15 PSI	4-20mA	4-20mA	4-20mA	4-20mA
Supply Pressure	145 PSI	145 PSI	100 PSI	145 PSI	145 PSI
Linearity error	<0.7%f.s.	<1.0%f.s.	<1.0%f.s.	<1.0%f.s.	<1.0%f.s.
Hysteresis	<0.4%f.s.	<0.6%f.s.	<0.6%f.s.	<0.6%f.s.	<0.6%f.s.
Repeatability	<0.3%f.s.	<0.5%f.s.	<0.5%f.s.	<0.5%f.s.	<0.5%f.s.
Pressure gain @87psi	750	750	750	750	750
Bleed rate @87psi	0.53 SCFM	0.60 SCFM	0.62 SCFM	0.62 SCFM	0.46 SCFM
Air delivery @87psi	31.8 SCFM	31.8 SCFM	31.8 SCFM	31.8 SCFM	31.8 SCFM
Temperature range	-40° to 185°F (-40° to 85°C)	-40° to 185°F (-40° to 85°C)	-40° to 158°F (-40 to 70°C)	-40° to 180°F (-40 to 82°C)	-20° to 158°F (-28 to 70°C)
<b>Above based on Standard Gain pilot</b>					
Air connections	¼" NPT	¼" NPT	¼" NPT	¼" NPT	¼" NPT
Gauges	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT	1/8" NPT
Cable Entry	½" NPT	½" NPT	½" NPT	½" NPT	½" NPT
Ingress & corrosion protection	NEMA 4X / IP66	NEMA 4X / IP66	NEMA 4X / IP65	NEMA 4X / IP65	NEMA 4X / IP65
Standard coating	Polyester				
Weight	3.5 lbs	3.8 lbs.	4.9 lbs	4.8 lbs	5.8 lbs

**Valve types:**

			<b>Low Bleed</b>	<b>Standard</b>	<b>High Gain</b>
Pressure Gain:	@ 29 PSI (0.2MPa)	Poutput / Pinput	100	270	370
	@ 87 PSI (0.6MPa)	Poutput / Pinput	300	750	1100
	@ 145 PSI (1.0MPa)	Poutput / Pinput	500	1330	1830
Pressure Gain: Acc. to ISA S75.13	Any	%Poutput / %Pinput	20	52	72
Air Delivery	@ 29 PSI (0.2MPa)	SCFM/(SLPM)	9.4 / (270)	10.6 / (300)	10.6 / (300)
	@ 87 PSI (0.6MPa)	SCFM/(SLPM)	28.3 / (800)	31.8 / (900)	31.8 / (900)
	@ 145 PSI (1.0MPa)	SCFM/(SLPM)	47.1 / (1330)	53.0 / (1500)	53.0 / (1500)
Bleed Rate	@ 29 PSI (0.2MPa)	SCFM/(SLPM)	0.18 / (5)	0.18 / (5)	0.24 / (6.7)
	@ 87 PSI (0.6MPa)	SCFM/(SLPM)	0.35 / (10)	0.53 / (15)	0.71 / (20)
	@ 145 PSI (1.0MPa)	SCFM/(SLPM)	0.88 / (25)	0.88 / (25)	1.18 / (33.3)