

AutoValve® proportional control valve provides unparalleled performance in the control of critical process flows. Designed for a variety of applications including chemical blending and dispensing or DI water quick rinse control.



AutoValve®

Fast, Accurate and Reliable Performance

- Patented valve design
 - Exceptional resolution
 - Linear flow characteristics
 - Extensive range of Cv options
- Dual rolling diaphragms:
 - Small foot print
 - Dual containment
 - Integral leak detection port
 - Positive pressure and vacuum applications
- Control signals:
 - 4-20 mA
 - 1-5 VDC
 - 1-10 VDC

v a l v e s

Operation

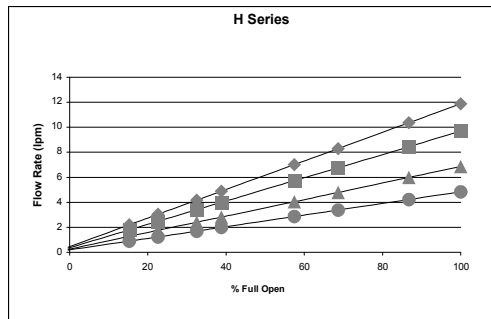
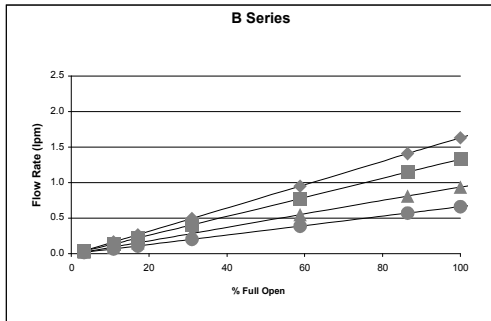
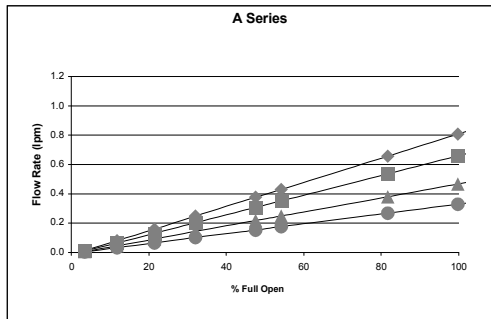
The AutoValve® combines Futurestar's industry tested and proven patented metering valve design with a precision stepper motor. This synergistic combination provides users the flexibility to create an infinite variety of process control possibilities. The user supplies an analog input signal and the metering valve within the AutoValve® is quickly moved to the corresponding position. Materials of construction make these valves suitable for ultra pure DI water, acid solvents and other aggressive liquid applications.

Pressure Drop ◆ 30 psi ■ 20 psi ▲ 10 psi ● 5 psi

The charts below represent 6A series valves;
for 6B series consult Futurestar.

Charts show:

- Flow characteristics for different Cv
- Flow versus % open
- DIW at 23°C (72°F)



Specifications

MATERIALS

- Wetted parts:
PTFE, PFA
- Non wetted parts:
PVDF, polypropylene, PVC

OPERATING

- Reliability: > 3 mill cycles
- Maximum pressure: 60 psig
- Maximum fluid temp: 90°C (176°F).
- Electronic purge: required for ambient temperatures >30°C and/or process temperatures >40°C (Consult factory for flows and pressures)
- Consult factory for special applications

VACUUM: to 15" Hg (~380 torr or 7.5 psi) max.

- Reliability: 2 mill cycles
- Temperature: Process and ambient at 23°C

ELECTRICAL

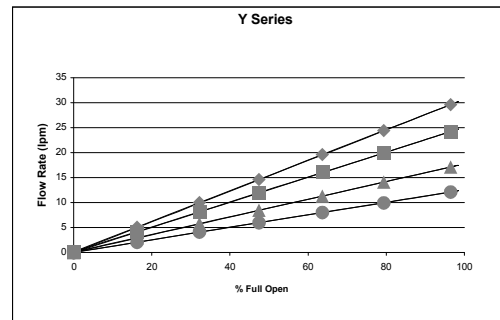
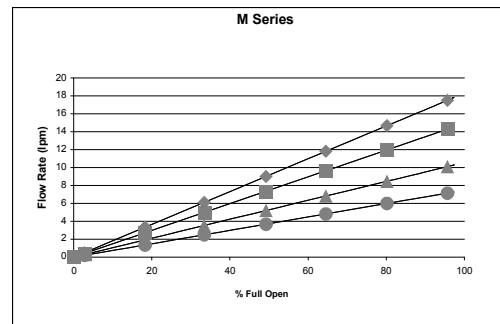
Input power

- 24 Vdc (±1.5 Vdc)
- 0.2A Average (0.5A Peak, 1.5A Inrush)
- retected to 30 Vdc
- Reverse polarity protected to 100 Vdc

Input signal options*

- 4-20mA, Source or sink (249Ω load resistance)
- 1-5 Vdc (200Ω min. impedance)
- 1-10 Vdc (400Ω min. impedance)

*Overvoltage protected to 50 Vdc & polarity insensitive



The charts above show standard Cv ranges available for the AutoValves®. For other Cv ranges, consult Futurestar. AutoValves® are tested and calibrated from zero to the maximum Cv @60 psig and may vary up to 2% full scale Cv over the life of the valve. Valve life, in full strokes, typically exceed 3M cycles. Actual performance may vary based on application conditions.

Ordering Information

To order, select from options below.

Complete Part Number = 6●Cv Range●Cv Value-Connection Size●Connection Type-Control Signal●Cable Length

(Example: 6BU-8F-1A)

AutoValve	6
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Cv RANGE	A	B
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Cv VALUE *	A	0.02	
	B	0.13	
	C	0.21	
	D	0.27	
	H	0.55	
	I	0.61	
	M	0.82	2.40
	R		4.10
	S	1.13	
	U		6.10
	X		9.00
Y	1.39	10.00	

CONNECTION SIZE	1	1/8**	Max. Cv*** 0.08
	2	1/4	0.25
	3	3/8	1.00
	4	1/2	1.50
	6	3/4	6.10
	8	1	12.00

CONNECTION TYPE	F	Flare
	S	Pillar Super 300

CONTROL SIGNAL	1	4-20 mA
	2	1-5 VDC
	3	1-10 VDC

CABLE LENGTH	A	6' pigtail PVC shielded electrical cable
	B	12' pigtail PVC shielded electrical cable
	C	30' pigtail PVC shielded electrical cable
	D	2' pigtail PVC shielded electrical cable
	E	10' pigtail PVC shielded electrical cable

*Consult factory for other Cv values.
 **Available for Pillar Super 300 fitting style only.
 ***Maximum Cv recommended for connection size.

Installation Drawings

	Description	inches	mm
A	1/4" Flare	5.06	128.5
	3/8" Flare	5.20	132.1
	1/2" Flare	5.32	135.1
	3/4" Flare	5.66	143.8
	1" Flare	6.15	156.3
	1/8" Super 300	3.68	93.5
	1/4" Super 300	4.16	105.6
	3/8" Super 300	4.55	115.6
	1/2" Super 300	4.84	122.8
	3/4" Super 300	5.33	135.4
	1" Super 300	5.84	148.3
B	Cv .02-.82	6.5	165
	Cv .82-2.4	6.7	170
	Cv 2.6-10	6.7	170

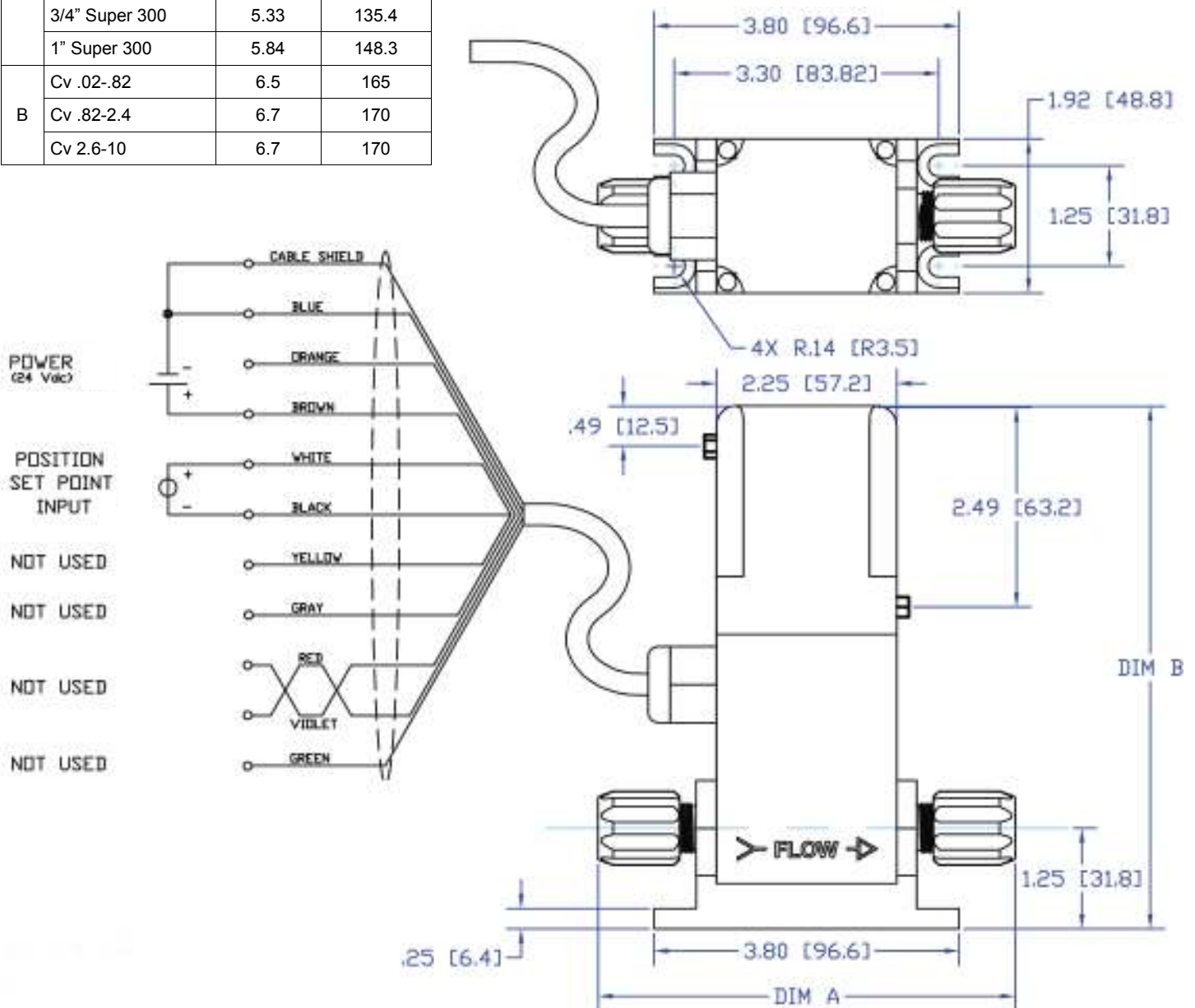
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952 942 8388 • 952 942 8661 fax • www.futurestarcorp.com • U.S. Patents: 5565631, 5549277, 5381826, 5078004 • Others pending



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