NV24-MFT US, NVD24-MFT US, NVG24-MFT US

Non-spring return, direct coupled globe valve actuator, proportional control





Technical Data	NV Series	
Power Supply:	24 VAC +/- 20% 50/60 Hz 24 VDC +/- 10%	
Power consumption	5 W, NVMFT US	
Transformer sizing	7 VA, NVMFT US	
	(Class 2 power supply)	
Electrical connection	3 ft, 18 GA appliance cable, 1/2" conduit fitting	
Overload protection	electronic throughout stroke	
Operating range Y*	2 to 10 VDC, NVMFT US, 4 to 20 mA w/500 Ω , 1/4" W resistor V-10001 Default	
	Pulse width modulation, NVMFT US V-20 (selectable when ordered)	
Input impedance	100k Ω for 2 to 10 VDC (0.1 mA) 500 Ω for 4 to 20 mA 1500 Ω for PWM, Floating point and On-Off control	
Feedback*	2 to 10 VDC, .5 mA max., NVMFT US	
Maximum stroke	3/4" [20 mm]	
Force	90 lbf [400 N], NVD US 225 lbf [1000 N], NV US 360 LBF [1600 N], NVGUS	
Position indication	stroke indicator on bracket	
Manual override	3/16" hex, 5 mm hex, phillips screwdriver	
Running time motor*	150 sec. Independent of load, Independent of stroke	
Humidity	5 to 95% RH, non-condensing	
Ambient temperature	32°F to +122° F [0°C to 50°C]	
Media temperature	20°F to +250° F [-7°C to 120°C]	
Storage temperature	-40°F to +176° F [-40°C to 80°C]	
Housing	NEMA 2/ IP54 with cable entry down	
Housing material	UL 94-5V (flammability rating)	
Agency listing	CE, UL 873, CSA C22.2 No .24 certified	
Quality standard	ISO 9001	
Noise level	max. 35 dB(A)	
Servicing	maintenance free	
Weight	4 lb [1.8 kg]	
*// : !! ! :	·	

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Application

For on/off, floating point and proportional control of globe valves. Actuator will mate to an integrated adaptor bracket. Adaptor bracket shown fits valves manufactured by Siebe Environmental Controls under designations VB7000 and VB9000.

Functional safety

The actuator is secured against short circuiting and incorrect polarity. The stroke is adapted automatically and is overload-protected.

Manual operation

When a 3/16" or 5 mm hex is inserted and turned clockwise, the actuator plunger pushes out. The actuator plunger retains the position until the nominal voltage is applied.

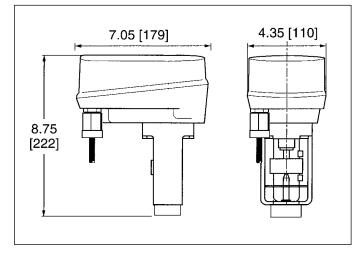
Display of function

The stroke is shown mechanically on the adaptor bracket, and the maximum stroke is set automatically. Under the housing cover on -MFT models is a two-colored LED status display.

Multi-Function Technology® (MFT)

An integrated microprocessor allows for a variety of parameters to be easily configured at the factory or in the field.

Dimensions in inches (numbers in brackets are metric)

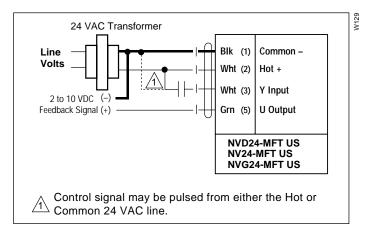


^{*} Variable during 2002



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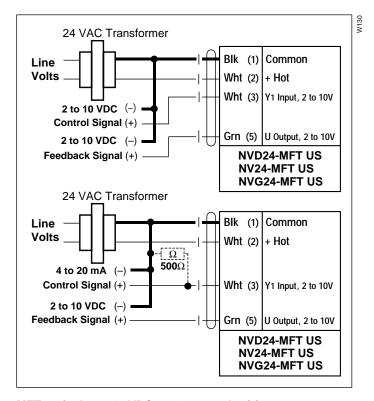


Pulse width modulation control wiring

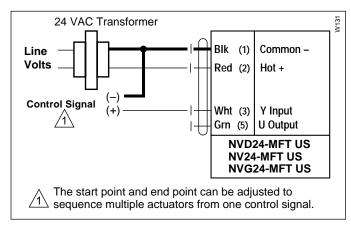
Range Available: 20 ms to 50 sec.

Typical:

0.59 to 2.93	V-20001	
0.02 to 5.00	V-20002	
0.10 to 25.5	V-20003	
Custom configurations available		



MFT typical 2 to 10 VDC or 4 to 20 mA wiring



Start point and stop adjustable wiring Range Available: Start 0.5 to 30 VDC Stop 2.5 to 32 VDC

Typical:

2 - 10 VDC	V-10001	
0 - 10 VDC	V-10002	
4 - 7 VDC	V-10004	
6 - 9 VDC	V-10005	
Custom configurations available		