NAV SERIES ELECTRIC GLOBE VALVE ACTUATOR

VALVE & VALVE ACTUATOR



NAV SERIES

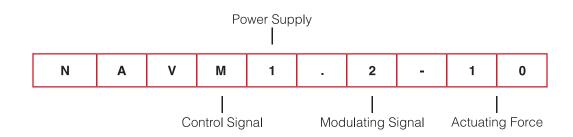
NAV series electric valve actuator is mainly use with Globe Valve in the HVAC system to regulate the flow of water and steam in response to the demand of a controller.

PRODUCT FEATURE

- Complete range from 1000N to 3000N
- 3 Point floating or Modulating (0-10VDC or 4-20mA Control Signal Selectable)
- Low leakage factor of up to 0.05%
- High close-off pressure actuator satisfies demanding requirements of high-rise buildings and high pressure pumping systems

TECHNICAL SPECIFICATION					
ACTUATING FORCE	1000N/1800N & 3000N				
POWER SUPPLY	AC 24 V				
FREQUENCY	50 / 60 Hz				
POWER CONSUMPTION	2.4 W				
PROTECTION CLASS	II				
CONTROL SIGNAL	See TABLE 1: VALVE CODE NUMBER DESIGNATION				
LIFE CYCLE	60,000 cycle				
IP PROTECTION	IP 42 (1000N), IP54 (1800N/3000N)				
AMBIENT TEMPERATURE	-20°50° as per IEC721-3-3				
AMBIENT HUMIDITY	595% rH (non Condensing)				
INVENTORY TEMPERATURE	+70°C as per IEC 721-3-2				
STROKE LENGTH	Max 20 mm (1000N), Max 42mm (1800N/3000N)				
WEIGHT	See TABLE 2: MAXIMUM CLOSE-OFF PRESSURE (KPA) AND WEIGHT				
CERTIFICATION	CE and ISO 9000 (ENrequirements)				

TABLE 1: VALVE CODE NUMBER DESIGNATION



VALVE ACTUATOR NAV	NAV = Valve Actuator			
CONTROL SIGNAL	A = 3 Point Control			
CONTROL SIGNAL	M = Modulating Control			
POWER SUPPLY	1 = AC 24			
MODULATING SIGNAL (APPLICABLE FOR MODULATING SIGNAL)	2 = 0(2)-10 Vdc (Factory Default Setting) / 0(4)-20 mA			
	10 = 1000N			
ACTUATING FORCE	18 = 1800N			
	30 = 3000N			

To Order

Specify the code number from the Actuator Code Selection Guide.

Repair Parts

Available repair parts for NAV Series Actuator include replacement actuators.

No other field repairs should be attempted.

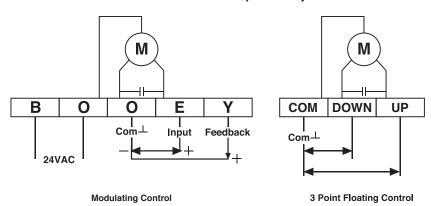
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VALVE AND VALVE ACTUATOR

TABLE 2: MAXIMUM CLOSE-OFF PRESSURE (KPA) AND WEIGHT										
MAXIMUM SHUTOFF PRESSURE (KPA)										
MODEL	FORCE (N)	DN20	DN25	DN32	DN40	DN50	KG			
NAV 10	500	1000	680	550	400	270	1.2			
MAXIMUM SHUTOFF PRESSURE (KPA)										
MODEL	FORCE (N)	DN65	DN80	DN100	DN125	DN50	KG			
NAV 18	1800	340	150	90	-	-	4.8			
NAV 30	3000	-	-	270	150	90	5.0			

FIGURE 3: ACTUATOR WIRING DIAGRAM

NAV...10 (1000N)



NAV...18 and NAV...30 (1800N and 3000N)

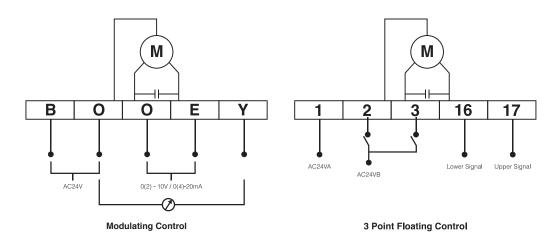
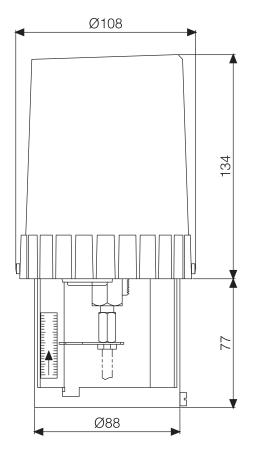
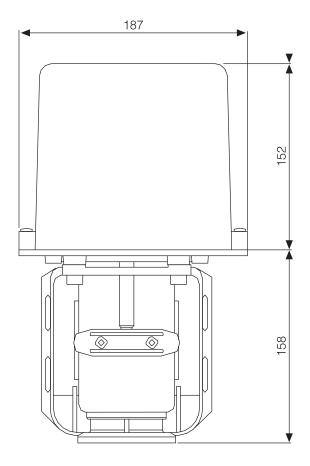


TABLE 3: DIMENSION OF ACTUATOR (mm)



NAV... 10 Series (1000N)



NAV... 18 Series (1800N) NAV... 30 Series (3000N)

APPLICATION OVERVIEW

The NAV series Electric Valve Actuator features a complete range from 1000N to 3000N actuating force. They are use with the globe valve to regulate the flow of water or Steam. The Actuator can be ordered with NENUTEC Valve NVCS or NVCF series valves and NTC controller for a complete HVAC solution.