

Growth, Progress, Evolution



New Generation AF and NF spring return actuators raises the bar for actuator quality, reliability and technical superiority.

- Increased torque for more demanding applications: 180 in-lb (AF) and 90 in-lb (NF).
- Smaller housing for tight spaces and easier handling.
- Faster motor run times with MFT technology: 70 seconds with new AF and 40 seconds with new NF.
- Universal power supply (for On/Off models) can accept 24 to 240 VAC offering you one actuator for all voltages.
- Manual override is now standard on all models for faster installation and easier servicing.

A lot more in much less.

New AF and NF spring return actuators provide more features in a smaller housing, about 25% smaller! Low power consumption, increased torque to 90 in-lb (50% more compared to original NF series) and 180 in-lb (35% more compared to the original AF series), and faster running times (with MFT technology) offer new solutions for control dampers, control valves and retrofit applications.

The New Generation can be integrated with new and some existing Belimo accessories allowing for more options in both mounting and commissioning. A wide selection of clamping options, electrical connections and running times are now available providing you a cost effective solution with the same reliability you have come to experience with Belimo. The New Generation spring return actuators are suitable for use in control dampers up to 45 square feet* (with new AF) and up to 22 square feet* (with the new NF), air handling units, control valve, retrofit and replacement solutions and tandem mounted applications where higher torque is required.

*Parallel blade without edge seals and 1000 FPM face velocity.

New Generation – more features and benefits in a smaller size.



Product Ranges / Technical Data											
Torque (in-lb)	Function							Options			
	Control Input	Feedback VDC	Power Supply VAC	Running Time Seconds (default)		VA Rating	Auxiliary Switches	Cable Length feet	NEMA 4 Housing*		
				Ⓜ	Ⓢ						
Basic Products											
AFBUP	180	On/Off	-	24-240	<75	20	9.5	-	3	•	
AFBUP-S								Built-In		•	
AFB24-MFT		2-10 VDC	2-10	24	150	<20	10	-		•	
AFB24-MFT-S								Built-In		•	
AFB24-MFT95								0 to 135 Ω**		-	•
NFB24	90	On/Off	-	24	<75	20	8.5	Built-In	•		
NFB24-S				24-240			-	•			
NFBUP							-	•			
NFBUP-S				Built-In			•				
NFB24-SR				2-10 VDC (4-20mA*)			2-10	24	95	<20	6
NFB24-SR-S		150	-		•						
NFB24-MFT			-		•						
NFB24-MFT-S		Built-In	•								
MFT Products											
AFX24-MFT		180	Variable with MFT (VDC, PWM, Floating Point, On/Off)	Variable	24	70 to 220 (150)	<20	10	-	3, 10, 16	•
AFX24-MFT-S	Built-In								•		
AFX24-MFT95	0 to 135 Ω**		-			•					
NFX24-MFT	90	Variable with MFT (VDC, PWM, Floating Point, On/Off)	Variable	24	40 to 220 (150)	9	9	-	3, 10, 16	•	
NFX24-MFT-S								Built-In		•	
Customized Product Options											
Mechanical Interface:			Motor Running Times MFT series):			Cable:					
Standard universal clamp			AFX factory programmable from 70 to 220 seconds			3, 10 or 16 ft length appliance or plenum rated cables***					
Crankarm (included with actuator, not assembled onto hollow axle)			NFX factory programmable from 40 to 220 seconds			With/out ½" conduit connector(s)					
No clamp			Control and Feedback signals are all factory programmable (MFT series)			Control and Feedback signals are all factory programmable (MFT series)					

*NEMA 4 option denoted by "N4" at end of part number, not available on all models. Please consult factory.
 ♦♦ <60 seconds @-22°F [-30°C].
 ** Fixed input, not configurable with MFT.
 *** AFX24-MFT95 available only with 3 foot plenum rated cable.

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