NFB24-SR, NFB24-SR-S, NFX24-SR, NFX24-SR-S

Proportional, Spring Return, 24 V, for 2 or 10 VDC or 4 to 20 mA Control Signal











Power supply		REG. EQUIR
Power consumption running 3.5 W holding 2.5 W	Technical Data	NFB24-SR, NFB24-SR-S,
Power consumption running 3.5 W holding 2.5 W		NFX24-SR, NFX24-SR-S
Power consumption running 2.5 W	Power supply	
Transformer sizing		24 VDC +20% / -10%
Transformer sizing		
Seconds	holding	2.5 W
NFB 3 ft, 18 GA appliance cable, 1/2" conduit connector - S models: two 3 ft, 18 gauge appliance cables with 1/2" conduit connectors NFX 3 ft [1m], 10 ft [3m] or 16 ft [5m] 18 GA appliance or plenum cables, with or without 1/2" conduit connector - S models: Two 3 ft [1m], 10 ft [3m] or 16 ft [5m] 18 GA appliance or plenum cables, with or without 1/2" conduit connector - S models: Two 3 ft [1m], 10 ft [3m] or 16 ft [5m] appliance cables, with or without 1/2" conduit connectors Overload protection Operating range Y 2 to 10 VDC, 4 to 20mA Input impedance 100 KΩ for 2 to 10 VDC (0.1 mA) 500 Ω for 4 to 20 mA Feedback output U 2 to 10 VDC (max. 0.5 mA) Torque 90 in-lb [10 Nm] minimum reversible with CW/CCW mounting reversible with built-in switch Mechanical angle of rotation 95° (adjustable with mechanical end stop, 35° to 95°) (0° is full spring return position) Manual override Manual override 5 mm hex crank (¾6" Allen), supplied Humidity max. 95% RH non-condensing Ambient temperature -40°F to 176°F [-40°C to 80°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Noise level -40B(A) motor @ 95 seconds -6030-1:02, CE acc. to 2004/108/EC & 2006/95/EC Noise level -40B(A) motor @ 95 seconds -62dB(A) spring return Servicing maintenance free Quality standard Neight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches + Rated Impulse Voltage 800V, Type of action 1.AA (1.AAB for -5 version), Control Pollution Degree 3.	Transformer sizing	6 VA (class 2 power source)
Connector S models: two 3 ft, 18 gauge appliance cables with 1/2" conduit connectors	Electrical connection	
Seconds Sec	NFB	3 ft, 18 GA appliance cable, 1/2" conduit
with 1/2" conduit connectors NFX 3 ft [1m], 10 ft [3m] or 16 ft [5m] 18 GA appliance or plenum cables, with or without 1/2" conduit connector -S models: Two 3 ft [1m], 10 ft [3m] or 16 ft [5m] appliance cables, with or without 1/2" conduit connectors Overload protection electronic throughout 0 to 95° rotation Operating range Y 2 to 10 VDC, 4 to 20mA Input impedance 100 kΩ for 2 to 10 VDC (0.1 mA) 500 Ω for 4 to 20 mA Feedback output U 2 to 10 VDC (max. 0.5 mA) Torque 90 in-lb [10 Nm] minimum Direction of rotation spring reversible with CW/CCW mounting reversible with built-in switch Mechanical angle of rotation 95° (adjustable with mechanical end stop, 35° to 95°) Running time spring reversible with built-in switch Position indication visual indicator, 0° to 95° (0° is full spring return position) Manual override 5 mm hex crank (3/16" Allen), supplied Humidity max. 95% RH non-condensing Ambient temperature -20°F to 122°F [-30°C to 50°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Housing material zinc coated metal and plastic casing Agency listings1 cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/E		
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appliance or plenum cables, with or without 1/2" conduit connector -S models: Two 3 ft [1m], 10 ft [3m] or 16 ft [5m] appliance cables, with or without 1/2" conduit connectors Overload protection electronic throughout 0 to 95° rotation Operating range Y 2 to 10 VDC, 4 to 20mA Input impedance 100 KΩ for 2 to 10 VDC (0.1 mA) 500 Ω for 4 to 20 mA Feedback output U 2 to 10 VDC (max. 0.5 mA) Torque 90 in-lb [10 Nm] minimum reversible with CW/CCW mounting reversible with built-in switch Mechanical angle of rotation 95° (adjustable with mechanical end stop, 35° to 95°) Running time spring c3 e20 seconds 2 -4°F to 122°F [-20°C to 50°C]; 60 seconds 2 -22°F [-30°C] motor 95 seconds Position indication visual indicator, 0° to 95° (0° is full spring return position) Manual override 5 mm hex crank (¾-e" Allen), supplied Humidity max. 95% RH non-condensing Ambient temperature -22°F to 122°F [-30°C] Housing Nema 2, IP54, Enclosure Type2 Housing material 2inc coated metal and plastic casing Agency listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC Noise level 4408(A) motor 295 seconds 62dB(A) spring return Servicing maintenance free Quality standard ISO 9001 Weight 4.15 Ibs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AAB for -3 version), Control Pollution Degree 3.	NEV	
Conduit connector S models: Two 3 ft [1m], 10 ft [3m] or 16 ft [5m] appliance cables, with or without 1/2" conduit connectors electronic throughout 0 to 95° rotation	NFX	
-S models: Two 3 ft [1m], 10 ft [3m] or 16 ft [5m] appliance cables, with or without 1/2" conduit connectors		
16 ft [5m] appliance cables, with or without 1/2" conduit connectors		
$\begin{array}{c} \text{conduit connectors} \\ \hline \textbf{Overload protection} \\ \hline \textbf{Operating range Y} \\ \hline \textbf{Input impedance} \\ \hline Inpu$		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Operating range Y 2 to 10 VDC, 4 to 20mA	Overload protection	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
Soo Ω for 4 to 20 mA		
Torque Direction of rotation Spring Feversible with CW/CCW mounting Feversible with built-in switch 95° (adjustable with mechanical end stop, 35° to 95°) Running time Spring		
Direction of rotation spring motor reversible with CW/CCW mounting reversible with built-in switch Mechanical angle of rotation 95° (adjustable with mechanical end stop, 35° to 95°) Running time spring < 20 seconds @ -4°F to 122°F [-20°C to 50°C]; < 60 seconds @ -22°F [-30°C] motor 95 seconds Position indication visual indicator, 0° to 95° (0° is full spring return position) Manual override 5 mm hex crank (¾₁6" Allen), supplied Humidity max. 95% RH non-condensing Ambient temperature -22°F to 122°F [-30°C to 50°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Housing Nema 2, IP54, Enclosure Type2 Housing material zinc coated metal and plastic casing Agency listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC Noise level ≤40dB(A) motor @ 95 seconds ≤62dB(A) spring return Servicing maintenance free Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AAB for -5 version), Control Pollution Degree 3.	Feedback output U	2 to 10 VDC (max. 0.5 mA)
motor reversible with built-in switch Mechanical angle of rotation 95° (adjustable with mechanical end stop, 35° to 95°) Running time spring < 20 seconds @ -4°F to 122°F [-20°C to 50°C]; < 60 seconds @ -22°F [-30°C] motor 95 seconds Position indication visual indicator, 0° to 95° (0° is full spring return position) Manual override 5 mm hex crank (¾6" Allen), supplied Humidity max. 95% RH non-condensing Ambient temperature -22°F to 122°F [-30°C to 50°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Housing Nema 2, IP54, Enclosure Type2 Housing material zinc coated metal and plastic casing Agency listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC Noise level ≤40dB(A) motor @ 95 seconds ≤62dB(A) spring return Servicing maintenance free Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AAB for -S version), Control Pollution Degree 3.	Torque	90 in-lb [10 Nm] minimum
Mechanical angle of rotation 95° (adjustable with mechanical end stop, 35° to 95°) Running time spring < 20 seconds @ -4°F to 122°F [-20°C to 50°C]; < 60 seconds @ -22°F [-30°C]	Direction of rotation spring	reversible with CW/CCW mounting
Spring S		reversible with built-in switch
Running time	Mechanical angle of rotation	95° (adjustable with mechanical end stop, 35° to
Column		
motor 95 seconds Position indication visual indicator, 0° to 95° (0° is full spring return position) Manual override 5 mm hex crank (¾₁6" Allen), supplied Humidity max. 95% RH non-condensing Ambient temperature -22°F to 122°F [-30°C to 50°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Housing Nema 2, IP54, Enclosure Type2 Housing material zinc coated metal and plastic casing Agency listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC Noise level ≤40dB(A) motor @ 95 seconds ≤62dB(A) spring return Servicing maintenance free Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AAB for -5 version), Control Pollution Degree 3.	Running time spring	
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Humidity max. 95% RH non-condensing Ambient temperature -22°F to 122°F [-30°C to 50°C] Storage temperature -40°F to 176°F [-40°C to 80°C] Housing Nema 2, IP54, Enclosure Type2 Housing material zinc coated metal and plastic casing Agency listings† cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC & 2006/95/EC Noise level ≤40dB(A) motor @ 95 seconds ≤62dB(A) spring return Servicing maintenance free Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AAB for -S version), Control Pollution Degree 3.	Manual avamida	
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Housing Nema 2, IP54, Enclosure Type2	· ·	
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2006/95/EC	Agency listings	
Noise level \leq 40dB(A) motor @ 95 seconds \leq 62dB(A) spring return Servicing maintenance free Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AA.B for -S version), Control Pollution Degree 3.		
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Servicing maintenance free Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AA.B for -S version), Control Pollution Degree 3.		
Quality standard ISO 9001 Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AA.B for -S version), Control Pollution Degree 3.	Servicing	
Weight 4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches † Rated Impulse Voltage 800V, Type of action 1.AA (1.AA.B for -S version), Control Pollution Degree 3.	· ·	
	Weight	4.15 lbs (1.9 kg); 4.4 lbs (2.0 kg) with switches
		1 1.AA (1.AA.B for -S version), Control Pollution Degree 3.

Torque min. 90 in-lb, for control of air dampers

Application

For proportional modulation of dampers in HVAC systems. Actuator sizing should be done in accordance with the damper manufacturer's specifications.

The actuator is mounted directly to a damper shaft up to 1.05" in diameter by means of its universal clamp. A crank arm and several mounting brackets are available for applications where the actuator cannot be direct coupled to the damper shaft.

The actuator operates in response to a 2 to 10 VDC, or with the addition of a 500Ω resistor, a 4 to 20 mA control input from an electronic controller or positioner. A 2 to 10 VDC feedback signal is provided for position indication. Not to be used for a master-slave application.

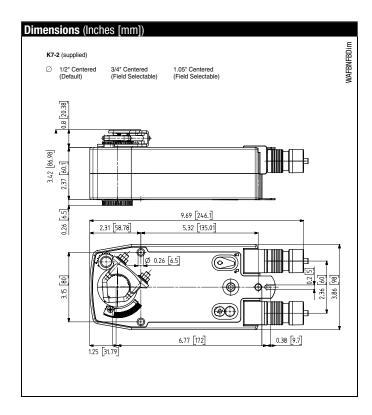
Operation

The NFB and NFX series actuators provide true spring return operation for reliable failsafe application and positive close-off on air tight dampers. The spring return system provides constant torque to the damper with, and without, power applied to the actuator.

The NFB and NFX series provides 95° of rotation and is provided with a graduated position indicator showing 0° to 95° .

The NFB24-SR and NFX24-SR uses a brushless DC motor which is controlled by an Application Specific Integrated Circuit (ASIC) and a microprocessor. The microprocessor provides the intelligence to the ASIC to provide a constant rotation rate and to know the actuator's exact fail-safe position. The ASIC monitors and controls the brushless DC motor's rotation and provides a digital rotation sensing function to prevent damage to the actuator in a stall condition. The actuator may be stalled anywhere in its normal rotation without the need of mechanical end switches.

The NFB24-SR-S and NFX24-SR-S versions are provided with two built-in auxiliary switches. These SPDT switches provide safety interfacing or signaling, for example, for fan start-up. The switching function at the fail-safe position is fixed at +10°, the other switch function is adjustable between +10° to +90°. The NFB24-SR, NFB24-SR-S, NFX24-SR and NFX24-SR-S actuator is shipped at +5° (5° from full fail-safe) to provide automatic compression against damper gaskets for tight shut-off.



M40024 - 05/10 - Subject to change. © Belimo Aircontrols (USA), Inc.

2 x SPDT 3A (0.5A) @ 250 VAC, UL approved

one set at +10°, one adjustable 10° to 90°

NFB24-SR-S, NFX24-SR-S

Auxiliary switches





NFB24-SR, NFB24-SR-S, NFX24-SR, NFX24-SR-S

Proportional, Spring Return, 24 V, for 2 or 10 VDC to 4 to 20 mA Control Signal

Accessories	
AV 8-25	Shaft extension
IND-AFB	Damper position indicator
KH-AFB	Crank arm
K7-2	Universal clamp for up to 1.05" dia jackshafts
TF-CC US	Conduit fitting
Tool-06	8mm and 10 mm wrench
ZG-100	Universal mounting bracket
ZG-101	Universal mounting bracket
ZG-118	Mounting bracket for Barber Colman® MA 3./4, Honeywell® Mod III or IV or Johnson® Series 100 replacement or new crank arm type installations
ZG-AFB	Crank arm adaptor kit
ZG-AFB118	Crank arm adaptor kit
ZS-100	Weather shield (metal)
ZS-150	Weather shield (polycarbonate)
ZS-260	Explosion-proof housing
ZS-300	NEMA 4X housing

NOTE: When using NFB24-SR, NFB24-SR-S, NFX24-SR and NFX24-SR-S actuators, only use accessories listed on this page.

For actuator wiring information and diagrams, refer to Belimo Wiring Guide.

Typical Specification

Spring return control damper actuators shall be direct coupled type which require no crank arm and linkage and be capable of direct mounting to a jackshaft up to a 1.05" diameter. The actuator must provide proportional damper control in response to a 2 to 10 VDC or, with the addition of a 500Ω resistor, a 4 to 20 mA control input from an electronic controller or positioner. The actuators must be designed so that they may be used for either clockwise or counterclockwise fail-safe operation. Actuators shall use a brushless DC motor controlled by a microprocessor and be protected from overload at all angles of rotation. Run time shall be constant, and independent of torque. A 2 to 10 VDC feedback signal shall be provided for position feedback. Actuators shall be cULus Approved and have a 5 year warranty, and be manufactured under ISO 9001 International Quality Control Standards. Actuators shall be as manufactured by Belimo.

Wiring Diagrams



INSTALLATION NOTES



Provide overload protection and disconnect as required.



CAUTION Equipment Damage!

Actuators may be connected in parallel.

Power consumption and input impedance must be observed.



Up to 4 actuators may be connected in parallel. With 4 actuators wired to one 500 Ω resistor. Power consumption must be observed.



Actuator may also be powered by 24 VDC.



For end position indication, interlock control, fan startup, etc., NFB24-SR-S and NFX24-SR-S incorporates two built-in auxiliary switches: 2 x SPDT, 3A (0.5A) @250 VAC, UL Approved, one switch is fixed at $+10^{\circ}$, one is adjustable 10° to 90°.



Only connect common to neg. (-) leg of control circuits



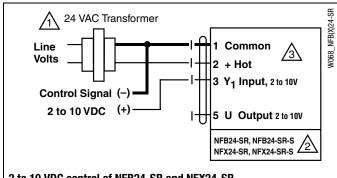
APPLICATION NOTES



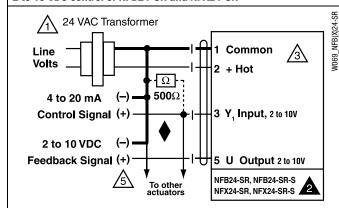
The ZG-R01 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC.

WARNING Live Electrical Components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



2 to 10 VDC control of NFB24-SR and NFX24-SR



4 to 20 mA control of NFB24-SR and NFX24-SR with 2 to 10 VDC feedback output

