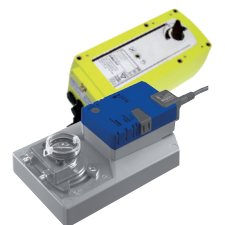




**Update 09/2016**  
Actuators for air dampers



# Building HVAC components

Belparts is specialized in the development, production and marketing of components for the automation of HVAC-systems in buildings. We design field components that exactly match market needs. Throughout the development process, we ensure functionality, quality and reliability.

Belparts produces field components for all areas of HVAC, whether production, distribution, or terminal control of heating and cooling, as well as ventilation. Whatever the HVAC-application, we have it covered.

Our field components are designed to be smoothly integrated with any Building Management System (BMS), Direct Digital Controller (DDC), Programmable Logic Controller (PLC), and Supervisory Control and Data Acquisition (SCADA) system.

## A leading player for more than two decades

Belparts was established in 1987 by professionals from the HVAC-industry. Since then, we have developed a reputation for intelligent product design and reliable solutions. Our company has enjoyed a healthy success ever since its foundation.

## Market driven innovation

We constantly strive for product and system optimizations. Our engineers incorporate the latest proven technological developments into the design of new HVAC-components and understand how to combine high quality with product affordability.

## Shared competency and values

The Belparts staff shares a common passion for technology, product design, quality, and HVAC-applications. Each of our team members is both customer and results-oriented, and is trained to think 'innovation'. Integrity and responsibility are prerequisites for every employee.



## energetx



Belparts produces a broad range of components that save costs at every single point in your HVAC-system. By selecting the optimal component for each individual situation, considerable amounts of energy can be saved. Our **energetx**-range of products includes control valves, rotating valves, valve and air damper actuators, terminal control valves, and sensors.

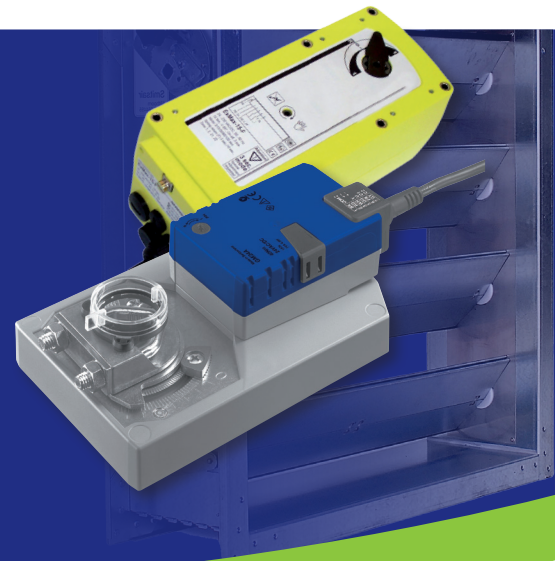
## dynamx



Based on our revolutionary Dynamic Flow Networking (DFN) concept, our **dynamx**-valves adjust the flow of energy exactly to the desired conditions. This ensures that only the exact amount of energy is delivered at the right place and at the right time. The result is optimal comfort and reduced energy costs.

# energetx

## 5. Actuators for air dampers



<b>With spring return</b>	<b>6</b>
<b>Standard actuators</b>	<b>7</b>
<b>IP66</b>	<b>5</b>
<b>ATEX</b>	<b>5</b>



## Product key

The product identification key contains all essential data defining the unique features of the damper actuator.

Example: type SM24A-SR

S	M	24A	SR	-S
Actuator				

Type of actuator (depending on the torque)  
**L..** 5 Nm  
**N..** 10 Nm  
**S..** 20 Nm  
**E..** 30 Nm  
**G..** 40 Nm

**M** standard actuator  
**F** actuator with spring return

**230A** AC 230 Volt  
**24A** AC 24 Volt

**-** on/off and/or 3-point control  
**SR** modulating 0..10Vdc

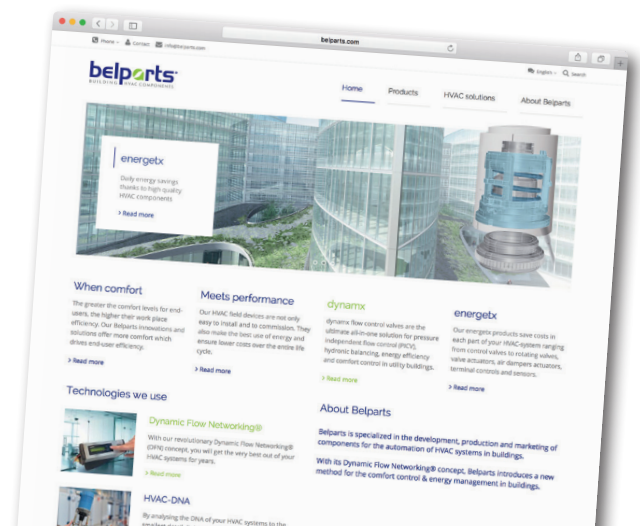
Special functions/versions:  
**-S** integrated auxiliary switch(es)

## Belparts online 24h/24h, 7/7







**Innovation, advice and tailored solutions:** that is what you expect your HVAC specialist to deliver. On top: top-notch quality, because at that level you do not want to make concessions. You are more than right. Because by choosing **field equipment of the highest quality**, you choose not only for **comfort** but also for **sustainable installations** and **profitable investments**.




For the most up-to-date technical specifications of our products, you can always consult our online product data sheets on our website: **www.belparts.com** ▶ **products**. Of course we can provide you with a printed version of our product data sheets on simple request.





**www.belparts.com**







## Overview

 IP54	SERIES	Nm	m <sup>2</sup>				Page
	LF..	4	ca. 0,8	90°	•	8..16mm	6
	NF..A	10	ca. 2,0	90°	•	10..25,4mm	1)
	SF..A	20	ca. 4,0	90°	•	10..25,4mm	6
	EF..A	30	ca. 6,0	90°	•	12..26,7mm	1)
	CM..	2	ca. 0,4	90°		6..12,7mm	1)
	LM..A	5	ca. 1,0	90°		6..20,0mm	7
	NM..A	10	ca. 2,0	90°		8..26,0mm	7
	SM..A	20	ca. 4,0	90°		10..20,0mm	7
	GM..A	40	ca. 8,0	90°		12..26,7mm	7

 IP54	SERIES	N	m <sup>2</sup>				
	CH..	125	ca. 0,8	60..100mm			1)
	LH..A	150	ca. 1,0	60..300mm			1)
	SH..A	450	ca. 3,0	100..300mm			1)

 IP66	SERIES	Nm	m <sup>2</sup>				
	InMax 'S'	5..30	ca. 2..6	90°			1)
	InMax 'SF'	5..15	ca. 2..3	90°	•		1)
	InMax 'M'	50..100	ca. 10..20	90°			1)
	InMax 'MF'	30..50	ca. 6..10	90°	•		1)

 ATEX	SERIES	Nm	m <sup>2</sup>				
	ExMax 'S'	5..30	ca. 2..6	90°			1)
	ExMax 'SF'	5..15	ca. 2..3	90°	•		1)
	ExMax 'M'	50..100	ca. 10..20	90°			1)
	ExMax 'MF'	30..50	ca. 6..10	90°	•		1)

1) on request

## Actuators with spring return for air dampers $\angle 90^\circ$



- Universal air damper actuator
- With universal mounting clamp
- Overload protected
- Power supply  $U_V$ : AC 24 Volt or AC 230 Volt
- Control signal Y: on/off, 3P or 0..10Vdc
- IP54



	TYPE	Nm	Y		Feedback	$U_V$		P [VA]	Running time		Price €/pc	
			2P/3P	0..10Vdc		24V	230V		Motor	FSF		
	LF24	4	<sup>2)</sup>			●		7	< 75s	< 20s	<b>168,-</b>	
	LF24-S	4	<sup>2)</sup>		1x SPDT	●		7	< 75s	< 20s	<b>194,-</b>	
	LF230	4	<sup>2)</sup>				●	7	< 75s	< 20s	<b>182,-</b>	
	LF230-S	4	<sup>2)</sup>		1x SPDT		●	7	< 75s	< 20s	<b>208,-</b>	
	LF24-SR	4			●	0..10Vdc	●		5	< 75s	< 20s	<b>261,-</b>
	NF24A	10	<sup>2)</sup>			●		8,5	< 75s	< 20s	<sup>3)</sup>	
	NF24A-S2	10	<sup>2)</sup>		2x SPDT	●		8,5	< 75s	< 20s	<sup>3)</sup>	
	NF230A	10	<sup>2)</sup>				●	9,5	< 75s	< 20s	<sup>3)</sup>	
	NF230A-S2	10	<sup>2)</sup>		2x SPDT		●	9,5	< 75s	< 20s	<sup>3)</sup>	
	NF24A-SR	10			●	0..10Vdc	●		5,5	< 150s	< 20s	<sup>3)</sup>
	NF24A-SR-S2	10			●	0..10Vdc <sup>1)</sup>	●		5,5	< 150s	< 20s	<sup>3)</sup>
	SF24A	20	<sup>2)</sup>			●		7,5	< 75s	< 20s	<b>241,-</b>	
	SF24A-S2	20	<sup>2)</sup>		2x SPDT	●		7,5	< 75s	< 20s	<b>269,-</b>	
	SF230A	20	<sup>2)</sup>				●	18	< 75s	< 20s	<b>278,-</b>	
	SF230A-S2	20	<sup>2)</sup>		2x SPDT		●	18	< 75s	< 20s	<b>304,-</b>	
	SF24A-SR	20			●	0..10Vdc	●		7	< 150s	< 20s	<b>315,-</b>
	SF24A-SR-S2	20			●	0..10Vdc <sup>1)</sup>	●		7	< 150s	< 20s	<b>365,-</b>
	EF24A	30	<sup>2)</sup>			●		16	< 75s	< 20s	<b>503,-</b>	
	EF24A-S2	30	<sup>2)</sup>		2x SPDT	●		16	< 75s	< 20s	<b>540,-</b>	
	EF230A	30	<sup>2)</sup>				●	21	< 75s	< 20s	<b>579,-</b>	
	EF230A-S2	30	<sup>2)</sup>		2x SPDT		●	21	< 75s	< 20s	<b>614,-</b>	
	EF24A-SR	30			●	0..10Vdc	●		12	< 150s	< 20s	<b>589,-</b>
	EF24A-SR-S2	30			●	0..10Vdc <sup>1)</sup>	●		12	< 150s	< 20s	<b>624,-</b>

- <sup>1)</sup> with extra auxiliary switches 2x SPDT  
<sup>2)</sup> only 2-point control signal (on/off) allowed  
<sup>3)</sup> on request  
▲ standard

**FSF:** fail safe function



## Actuators for air dampers $\approx 90^\circ$

- Universal air damper actuator
- With universal mounting clamp
- Overload protected
- Power supply  $U_v$ : AC 24 Volt or AC 230 Volt
- Control signal Y: on/off, 3P or 0..10Vdc
- IP54



	TYPE	Nm	Y		Feedback	$U_v$		P [VA]	Running time		Price €/pc
			2P/3P	0..10Vdc		24V	230V		Motor	FSF	
	LM24A	5	●			●		2	150s	-	90,-
	LM24A-S	5	●		1x SPDT	●		2	150s	-	101,-
	LM230A	5	●				●	4	150s	-	90,-
	LM230A-S	5	●		1x SPDT		●	4	150s	-	104,-
	LM24A-SR	5		●	0..10Vdc	●		2	150s	-	130,-
	NM24A	10	●			●		4	150s	-	118,-
	NM24A-S	10	●		1x SPDT	●		4	150s	-	144,-
	NM230A	10	●				●	6	150s	-	121,-
	NM230A-S	10	●		1x SPDT		●	6	150s	-	162,-
	NM24A-SR	10		●	0..10Vdc	●		4	150s	-	175,-
	SM24A	20	●			●		4	150s	-	135,-
	SM24A-S	20	●		1x SPDT	●		4	150s	-	173,-
	SM230A	20	●				●	6	150s	-	135,-
	SM230A-S	20	●		1x SPDT		●	6	150s	-	175,-
	SM24A-SR	20		●	0..10Vdc	●		4	150s	-	206,-
	GM24A	40	1)			●		6	150s	-	237,-
	GM230A	40	1)				●	9	150s	-	237,-
	GM24A-SR	40		●	0..10Vdc	●		6,5	150s	-	308,-

### Accessories

	S1A	Auxiliary switch for LM.., NM.., SM.., GM.. 1xSPDT 3A@230Vac	38,-
	S2A	Auxiliary switch for LM.., NM.., SM.., GM.. 2xSPDT 3A@230Vac	50,-
	P..A	Feedback potentiometer	2)

1) only 2-point control signal (on/off) allowed

2) on request

▲ standard