

# (PBS) Parallel Blade Sealed Damper

Low Leakage Control Damper

## Description:

The PBS sealed control damper offers a sturdy steel construction. The damper frame is a 16ga galvanized welded design to keep the damper square and true to form. The blades are formed 16ga galvanized with linkage in the airstream for better blade operation. The blades seal tightly against the frame with the use of spring stainless steel side jamps and BES vinyl blade seals. Bronze oilite bushings offer low maintenance and ease of operation. Dampers of the same height can easily operate sectioned together by linking the blade with a connecting rod from one damper section to the blade of the next damper section. Please consult factory for best options and sizes. Belimo actuators are available upon request.

## Standard Construction:

List dampers duct size (WxH) width x height. All dampers will be 1/4" smaller both ways.

<b>Frame:</b>	16ga galvanized formed hat channel welded construction
<b>Frame Dimension:</b>	3-7/8" Hat channel (11/16 x 5/8 x 2-1/2 x 5/8 x 11/16)
<b>Blades:</b>	16ga galvanized rib formed (3V), 8" maximum blade width
<b>Finish:</b>	Mill
<b>Bushings:</b>	Bronze 1/2" round oilite
<b>Control rod:</b>	1/2" round CRS plated 9" long
<b>Axles:</b>	1/2" round x 2-1/2" long CRS plated
<b>Hardware:</b>	Plated steel - brass pivots - 1/4" round linkage rods
<b>Side seals:</b>	304 spring stainless steel
<b>Blade seals:</b>	BES self sealing vinyl blade seals



**Model: PBS**  
Parallel Blade  
Sealed Damper

## Mfg. Options

- Stainless steel – all stainless steel
- Aluminum-aluminum with st. stl set screws, bronze bushings/pivots

**Max. single section width:** 48" **Max. single section size:** 48"x48"

**Multiple section assembly:** Yes – Call factory for best options.

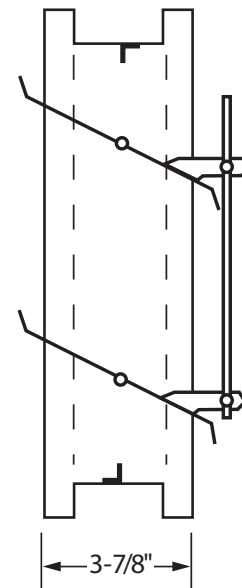
**Minimum size:** 6"x6" **Minimum multi-blade size:** 6"x12"

**Maximum velocity:** 2000 fpm

Damper height	Number of blades
11" and under	1 blade
12"-18"	2 blades
19"-24"	3 blades
25"-32"	4 blades
33"-40"	5 blades
41"-48"	6 blades

## Options

- Nylon bushings installed upon request
- Quadrants 1/2" round-galvanized or stainless steel (both with cast handle)
- Above quadrants with 2" standoff on galvanized, stainless steel or aluminum.
- Belimo electric actuators (See PDF - Belimo actuators)
- Direct coupled or with an actuator mount for in the airstream
- Damper proving switch with switch mount for in the airstream
- Face/By-pass



# Belimo Electric Actuators

## Power open – Spring return actuators

Style	Voltage	VA rating	Motor time	Spring ret	Switch	Torque	OBS	PBS	OBN	PBN
LF24	24v	7	<40-75	<25		35 in-lbs	7sf	5sf	11.5sf	8.6sf
LF24-S	24v	7	<40-75	<25	*	35 in-lbs	7sf	5sf	11.5sf	8.6sf
LF120	120v	7.5	<40-75	<25		35 in-lbs	7sf	5sf	11.5sf	8.6sf
LF120-S	120v	7.5	<40-75	<25	*	35 in-lbs	7sf	5sf	11.5sf	8.6sf
NFBUP	24,120,240	6.5	<75	20		90 in-lbs	18sf	12sf	30sf	22sf
NFBUP-S	24,120,240	6.5	<75	20	*	90 in-lbs	18sf	12sf	30sf	22sf
AFBUP	24,120,240	8.5	<75	20		180 in-lbs	36sf	26sf	60sf	45sf
AFBUP-S	24,120,240	8.5	<75	20	*	180 in-lbs	36sf	26sf	60sf	45sf

## Modulating actuators

LF24SR	24v	5	150	<25		35 in-lbs	7sf	5sf	11.5sf	8.6sf
LF24SR-S	24v	5	150	<25	*	35 in-lbs	7sf	5sf	11.5sf	8.6sf
NFB24SR	24v	3.5	95	<20		90 in-lbs	18sf	12sf	30sf	22sf
NFB24SR-S	24v	3.5	95	<20	*	90 in-lbs	18sf	12sf	30sf	22sf
NFB24MFT-S	24v	9	40...220	<20	*	90 in-lbs	18sf	12sf	30sf	22sf
AFB24MFT	24v	10	70...220	<20		180 in-lbs	36sf	26sf	60sf	45sf
AFB24MFT-S	24v	10	70...220	<20	*	180 in-lbs	36sf	26sf	60sf	45sf

\*Other Belimo actuator styles and accessories are available – please consult the factory.



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