

Dampers for Fire Barrier and Smoke Applications

COMPANY

RUSKIN COMPANY

3900 DR GREAVES RD

GRANDVIEW, MO 64030 United States

R5531

Fire Dampers for Use in Static Systems

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
IBD2, IBD20, IBD40, IBD60	1-1/2	V	36	36	—	—
			48	30	—	—
			33	72	120	72
		H	33	38	114	38
			30	45-1/2	90	91
IBD2SS, IBD20SS, IBD40SS, IBD60SS	1-1/2	V	36	36	—	—
			48	30	—	—
			33	72	99	72
		H	33	38	114	38
			30	45-1/2	90	91
IBD2(SS), IBD20(SS), IBD40(SS), IBD60(SS)	3	V	36	36	—	—
			30	36	90	72
		H	30	45-1/2	90	91

IBD2G	1-1/2	V	48	30	—	—
			33	38	90	48
			36	36	—	—
		H	30	45-1/2	90	48
					48	90
			33	38	90	48
					48	90
IBD20G	1-1/2	V	48	30	—	—
			33	38	—	—
			36	36	—	—
		H	30	45-1/2	—	—
			33	38	—	—
IBD2/OW	1-1/2	H, V	36	36	—	—
IBD2SS/OW	1-1/2	V	36	36	—	—
		H	30	36	36	36
IBD2SS/GA	1-1/2	V	36	36	—	—
IBDT/G, IBDT1/G, IBDT2/G	1-1/2	V	40	48	—	—
		H	36	36	—	—
	3	V	12	12	—	—
IBD23, IBD230	3	H	30	45-1/2	91	90
IBD430, IBD630		V	30	30	60	60
			36	36	—	—
IBD10	1-1/2	V	36	36	—	—
IBD2GA	1-1/2	V	36	30	—	—
			33	36	36	36
FD35	1-1/2	H, V	36	48	120	96
FD35SS	1-1/2	H, V	30	48	90	48
FD35/OW	1-1/2	H, V	36	36	—	—
FD35SS/OW	1-1/2	V	30	36	36	36
FD35/GA	1-1/2	V	36	36	—	—

FD60	1-1/2	H	30	48	120	96
		V	32	48	120	96
FD60-3	3	H, V	30	48	120	96
FD60/OB	1-1/2	H, V	32	48	—	—
FD60/OW	1-1/2	V	32	36	36	36
		H	30	36	36	36
FD60/GA	1-1/2	V	32	36	—	—

Fire Dampers for Use in Dynamic Systems

Dampers rated 2000 fpm / 4.0 in. WC:

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
DFD35	1-1/2	H, V	36	48	72	96
					120	48
DFD35/OW, DFD35GA	1-1/2	H, V	36	36	—	—
DFD35SS, DFD36SS	1-1/2	H, V	30	48	90	48
DFD35SS/OW	1-1/2	V	30	36	36	36
DFD35SS/GA	1-1/2	V	30	36	36	36
DFD37SS	1-1/2	H, V	24	32	90	32
DFD60	1-1/2	H	30	48	60	96
					120	48
		V	32	48	64	96
					120	48
DFD60-3	3	H, V	30	48	60	96
					120	48
DFD60/OW	1-1/2	V	32	36	36	36
		H	30	36	36	36
DFD60/GA	1-1/2	V	32	36	—	—
DFD60/OB	1-1/2	H, V	32	48	—	—
DIBD20NS	1-1/2	V	24	24	—	—

DIBD2, DIBD10, DIBD20, DIBD40, DIBD60	1-1/2	H	24	24	—	—
		V	33	36	—	—
		V	24	24	72	48
		V	24	24	48	72
		V	24	24	90	24
DIBD2G	1-1/2	H	24	24	—	—
		V	33	36	72	48
					48	72
DIBD20G	1-1/2	H	24	24	—	—
		V	33	36	—	—
DIBD2SS	1-1/2	H	24	24	—	—
		V	24	24	72	48
		V	24	24	48	72
		V	24	24	90	24
DIBD2SSG	1-1/2	H, V	24	24	—	—
		V	24	24	72	48
					48	72
DIBDX2, DIBDX20, DIBDX40, DIBDX60	1-1/2	H, V	18	24	36	48
		H	24	18	48	36
DIBDX2G	1-1/2	H	18	24	36	48
			24	18	48	36
DIBD23, DIBD230, DIBD430, DIBD630	3	H	24	24	—	—
		V	33	36	—	—
		V	24	24	72	48
		V	24	24	48	72
		V	24	24	90	24
DIBD23SS	3	H	24	24	—	—
		V	24	24	72	48
		V	24	24	48	72
		V	24	24	90	24

DIBDX23, DIBDX230, DIBDX430, DIBDX630	3	H, V	18	24	36	48
		H	24	18	48	36
DIBD2/OW	1-1/2	H, V	33	36	36	36
DIBD2SS/OW	1-1/2	V	24	24	36	36
DIBDX2/OW	1-1/2	V	18	24	36	36
		H	18	24	36	36
		H	24	18	36	36
DIBD2GA	1-1/2	V	33	36	36	36
DIBD2SS/GA	1-1/2	V	24	24	36	36
DIBDX2/GA	1-1/2	V	18	24	36	36

Model	Hr Class	Damper Mounting Position	Round Damper Diameter, In.		Multiple Section Damper Size In.	
			Min	Max	W	H
FDR25, FDR25SS	1-1/2	H, V	6	24	—	—

Dampers rated 2000 fpm / 6.0 in. WC:

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
DFD60	1-1/2	H	30	36	60	36
		V	32	36	64	36
DFD60-3	3	H, V	30	36	60	36

Dampers rated 3000 fpm / 6.0 in. WC:

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
DFD60	1-1/2	H, V	30	32	90	64

Dampers rated 4000 fpm / 4.0 in. WC:

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
DFD-LP	1-1/2	H, V	24	18	—	—

DIBDX2, DIBDX20, DIBDX40, DIBDX60	1-1/2	V	24	24	—	—
DIBDX23, DIBDX230, DIBDX430, DIBDX630	3	V	24	24	—	—

Dampers rated 4000 fpm / 6.0 in. WC:

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
DFD60	1-1/2	H	30	36	—	—
		V	32	36	—	—
DFD60-3	3	H, V	30	36	—	—

Dampers rated 4000 fpm / 8.0 in. WC:

Model	Hr Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
DFD60	1-1/2	H	30	48	60	48
		V	32	48	64	48
DFD60-3	3	H, V	30	48	60	48

Smoke Dampers**Dampers rated 2000 fpm / 4.0 in. WC:**

Model	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
			Min	Max	Min	Max
SD35, SD35/OB	III-350	H, V	6	36	5	48
			6	36	5	48
			6	36	5	72
SD36, SD36/OB	II-350	H, V	12	36	5	48
			12	36	5	48
	II-350		12	36	5	72
SD36SS	II-250	H, V	12	36	5	48
			12	36	5	48
SD37, SD37/OB	I-350	H, V	12	36	6	48
			12	36	6	48
	I-350	H, V	12	48	6	72

SD60-2	II-350	H, V	8	36	6	48	144	96
			8	36	6	48	288	48
	II-350	H, V	8	48	7	72	—	—
SD60, SD60/OB	I-350	H, V	12	36	6	48	144	96
			12	36	6	48	288	48
	I-350	H, V	12	48	6	72	—	—
SD60-BAL	I-250	H, V	12	36	6	48	—	—
SD60M	I-350	H, V	12	36	6	48	144	48
	I-250	H, V	12	36	6	48	72	96
SD50	III-250	H, V	6	36	5	48	144	48
	III-250	H, V	6	48	5	72	—	—
	II-250	H, V	12	36	5	48	144	48
	II-250	H, V	12	48	5	72	—	—
SD50/OB	II-250	H, V	6	36	5	48	144	48
	II-250	H, V	6	48	5	72	—	—
	I-250	H, V	12	36	5	48	144	48
	I-250	H, V	12	48	5	72	—	—
SD102	II-250	H, V	12	36	6	48	—	—

Model	Leakage Class	Damper Mounting Position	Round Damper Diameter, In.	
			Min	Max
SDRS25, SDRS25SS	I-350	H, V	5	24

Dampers rated 3000 fpm / 6.0 in. WC:

Model	Leakage Class	Damper Mounting Position	Single Section Damper Size In.				Multiple Section Damper Size In.	
			W		H		W	H
			Min	Max	Min	Max		
SD60	I-250	H, V	12	30	6	32	90	128
			12	30	6	32	360	32
			12	30	6	32	180	64

SD60-2	II-250	H, V	8	30	6	32	90	128
			8	30	6	32	360	32
			8	30	6	32	180	64
SD37	I-250	H, V	12	30	6	32	90	128
			12	30	6	32	360	32
			12	30	6	32	180	64
SD50	III-250	H, V	6	30	5	32	90	128
			6	30	5	32	360	32
			6	30	5	32	180	64
	II-250	H, V	12	30	5	32	144	48

Dampers rated 4000 fpm / 4.0 in. WC:

Model	Leakage Class	Damper Mounting Position	Round Damper Diameter, in.		Multiple Section Damper Size, in.	
			Min	Max	W	H
SDRS25, SDRS25-M, SDRS25-BAL; SDRS25SS, SDRS25SS-M, SDRS25SS-BAL	I-350	H, V	5	24	—	—

Dampers rated 4000 fpm / 8.0. WC:

Model	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
			W	H	W	H
TFD30	I-250	H, V	6	39-3/8	6	39-3/8

Combination Fire and Smoke Dampers**Dampers rated 2000 fpm / 4.0 in. WC:**

Model	Hr Class	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
				W	H	W	H
FSD35	1-1/2	III-350	H	5	36	6	48
			V	5	36	6	48
			V	5	36	6	48

FSD35G	1-1/2	III-350	H	5	36	6	48	90	48
								48	90
			V	5	30	6	48	90	48
								48	90
FSD35SS, FSD35SSG	1-1/2	III-250	H, V	5	30	6	48	90	48
FSD35/OW	1-1/2	III-350	H, V	5	36	6	36	—	—
FSD35SS/OW	1-1/2	III-250	V	5	30	6	36	36	36
FSD35/GA	1-1/2	III-350	V	5	36	6	36	—	—
FSD35SS/GA	1-1/2	III-250	V	5	30	6	36	—	—
FSD36	1-1/2	II-350	H	8	36	6	48	144	96
			V	8	36	6	48	126	96
			V	8	36	6	48	72	122
FSD36G	1-1/2	III-350	H	5	36	6	48	90	48
								48	90
			V	5	30	6	48	90	48
								48	90
FSD36FA	1-1/2	II-350	V	8	36	6	36	—	—
FSD36-C	1-1/2	II-250	H, V	12	24	6	24	—	—
FSD36SS, FSD36SSG	1-1/2	II-250	H, V	12	30	6	48	90	48
FSD36/OW	1-1/2	II-350	H, V	8	36	6	36	—	—
FSD36SS/OW	1-1/2	II-250	V	12	30	6	36	36	36
FSD36/GA	1-1/2	II-350	V	8	36	6	36	—	—
FSD36SS/GA	1-1/2	II-250	V	12	30	6	36	36	36
FSD36FA	1-1/2	II-350	V	8	36	6	36	—	—
FSD37	1-1/2	I-350	H	8	32	6	48	—	—
			H	8	30	6	48	120	96
			V	8	32	6	48	120	96
FSD37G	1-1/2	I-350	H, V	8	30	6	48	90	48
								48	90
FSD37SS, FSD37SSG	1-1/2	II-250	H, V	8	24	6	32	90	32
		I-250	H, V	12	24	6	32	—	—

FSD37SS/GA	1-1/2	I-250	V	12	24	6	32	—	—
FSD37SS/OW	1-1/2	I-250	V	12	24	6	32	36	32
FSD60	1-1/2	I-350	H	8	32	6	48	—	—
			H	8	30	6	48	120	96
			V	8	32	6	48	120	96
FSD60G	1-1/2	I-350	H, V	8	30	6	48	90	48
								48	90
FSD60-BAL	1-1/2	I-250	H, V	8	32	6	48	—	—
FSD60M	1-1/2	I-350	H	8	30	6	48	120	96
			V	8	32	6	48	120	96
FSD60/OW	1-1/2	I-350	V	8	32	6	36	36	36
			H	8	30	6	36	36	36
FSD60/GA	1-1/2	I-350	V	8	32	6	36	—	—
FSD60FA, -M, -BAL	1-1/2	I-350	V	8	48	6	48	—	—
FSD60-2/GA	1-1/2	II-350	H	8	32	6	48	—	—
			H	8	30	6	48	120	96
			V	8	32	6	48	120	96
FSD60-2G	1-1/2	II-350	H, V	8	30	6	48	90	48
								48	90
FSD60-2/OW	1-1/2	II-350	V	8	32	6	36	36	36
			H	8	30	6	36	36	36
FSD60-2GA	1-1/2	II-350	V	8	32	6	36	—	—
FSD60-3	3	I-350	H	8	30	6	48	120	96
			V	8	30	6	48	—	—
			V	8	32	6	48	120	96
FSD60-3BAL	3	I-250	H	8	30	6	48	—	—
FSD60-3M	—	—	H	8	30	6	48	120	96
			V	8	30	6	48	120	96
FSD60-C	1-1/2	I-350	H, V	12	24	6	24	—	—

FSD60XP	1-1/2	I-250	V	12	32	7	48	64	48
		I-250	H	12	30	7	48	60	48
		II-250	V	8	32	7	48	64	48
		II-250	H	8	30	7	48	60	48
FSD37LP	1-1/2	I-350	H, V	6	36	6	14	—	—
FSD36LP	1-1/2	II-350	H, V	6	36	6	14	—	—
FSD60V	1-1/2	II-250	V	6	48	8	32	—	—
		III-350	V	7	49	8	32	—	—
		II-350	V	7	49	12	32	—	—
FSD60VG	1-1/2	II-250	V	6	48	8	30	—	—
		III-350	V	7	48	8	30	—	—
		II-350	V	7	48	12	30	—	—
FSD60-V/OW	1-1/2	II-350	V	7	36	12	32	—	—
		III-350	V	7	36	8	32	—	—
FSD60LP	1-1/2	I-350	H, V	6	36	6	14	—	—
FSD60LP-2	1-1/2	II-350	H, V	6	36	6	14	—	—
FSD60-3M	3	I-350	V	203	813	152	1219	3048	2438
			H	203	813	152	1219	3048	2438

Model	Hr Class	Leakage Class	Damper Mounting Position	Round Damper Diameter, In.		Multiple Section Damper Size In.	
				Min	Max	W	H
FSD-EX	1-1/2	I-250	V	5	8	—	—
FSDR25, FSDR25-M, FSDR25-BAL	1-1/2	I-350	H, V	6	24	—	—
FSDR25SS, FSDR25SS-M, FSDR25SS-BAL	1-1/2	I-250	H, V	6	24	—	—
FSDR60	1-1/2	I-350	H, V	6	24	—	—

Dampers rated 3000 fpm / 4.0 in. WC:

Model	Hr Class	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
				W	H	W	H
				Min	Max	Min	Max

FSD60	1-1/2	I-350	V	8	32	6	32	120	96
			H	8	30	6	32	144	96

Dampers rated 3000 fpm / 6.0 in. WC:

Model	Hr Class	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.		W	H
				W	H	W	H		
				Min	Max	Min	Max		
FSD60	1-1/2	I-250	V	12	30	12	32	120	64
			H	8	30	6	32	120	64
FSD60-2	1-1/2	II-250	V	12	30	12	32	120	64
			H	8	30	6	32	120	64
FSD60-3	3	I-250	V	12	30	12	32	120	64
			H	8	30	6	32	120	64
FSD37	1-1/2	I-250	V	8	30	6	32	120	64
			H	8	30	6	32	120	64

Dampers rated 4000 fpm / 4.0 in. WC:

Model	Hr Class	Leakage Class	Damper Mounting Position	Round Damper Diameter, In.		Multiple Section Damper Size In.	
				Min	Max	W	H
FSDR25, FSDR25-M, FSDR25-BAL	1-1/2	I-350	H, V	6	24	—	—
FSDR25SS, FSDR25SS-M, FSDR25SS-BAL	1-1/2	I-250	H, V	6	24	—	—

Dampers rated 4000 fpm / 8.0 in. WC:

Model	Hr Class	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.		W	H
				W	H	W	H		
				Min	Max	Min	Max		
FSD60	1-1/2	I-250	V	8	24	6	24	96	24
			H	8	24	6	24	96	24
FSD60-2	1-1/2	II-250	V	8	24	6	24	96	24
			H	8	24	6	24	96	24
FSD60-3	3	I-250	V	8	24	6	24	96	24
			H	8	24	6	24	96	24

FSD37	1-1/2	I-250	V	8	24	6	24	96	24
			H	8	24	6	24	96	24

Corridor Dampers

Dampers rated 2000 fpm / 4.0 in. WC:

Model	Hr Class	Leakage Class	Damper Mounting Position	Single Section Damper Size In.		Multiple Section Damper Size In.	
				With	Height	W	H
FSD36-C	1	II-250 II-350	H	Min	Max	Min	Max
FSD60-C	1	I-350	H	12	24	6	24

Model	Hr Class	Leakage Class	Damper Mounting Position	Round Damper Diameter, In.		Multiple Section Damper Size In.	
				Min	Max	W	H
FSDR25C	1	I-350	H	6	12	—	—
DFSDR1	1	I-350	H	6	12	—	—

Volume Control Dampers

The following Combination Fire and Smoke Dampers in single section sizes up to 32 in. wide by 48 in. high, have been found suitable for volume control use:

Combination Fire and Smoke Damper - Models FSD60, FSD60BAL, FSD60-3BAL, FSD60M, FSD60-3M, FSD60-2, FSD60FA-BL & FSD60FA-M.

Model FSD-60V rated 250° F maximum, in single section sizes up to 48 in. wide by 32 in. high has been found suitable for volume control use.

Model FSD-60VG rated 250° F maximum, in single section sizes up to 48 in. wide by 30 in. high has been found suitable for volume control use.

The following model smoke dampers have been found suitable for volume control use:

Model SD50-V and SD50-V/OB.

Note: Only certain damper and operator combinations have been evaluated and found suitable for volume control use. As such, only dampers marked "Also Suitable For Use As Volume Control Damper" should be considered suitable for volume control applications.

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