



Products for Sheet Metal HVAC, Food Service & Architectural Construction Industries

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MODEL BO & BI OPERATION AND MAINTENANCE MANUAL

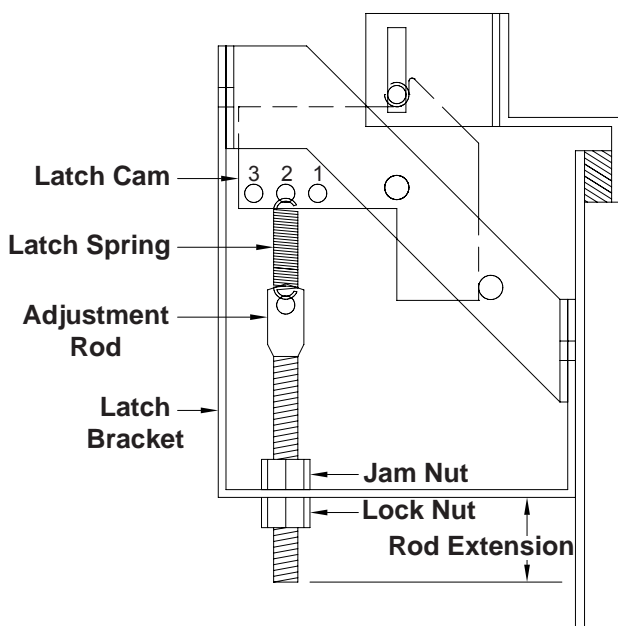
CAUTION: STAND CLEAR OF BO DOOR. BO PRESSURE RELIEF DOOR MAY SWING OPEN RAPIDLY WITHOUT WARNING.

LATCH MAINTENANCE: Clean and lubricate latch mechanism every six months.

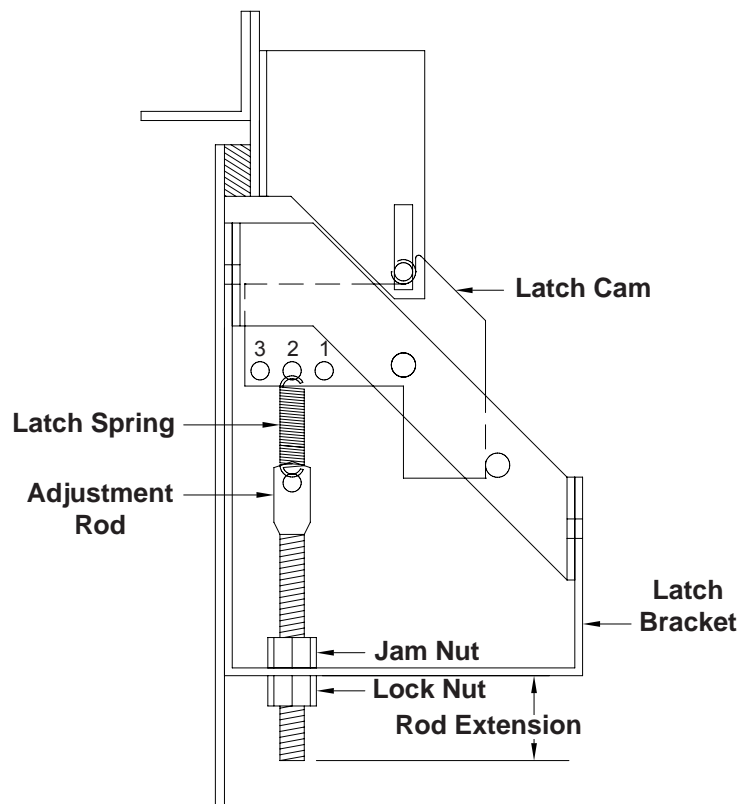
LATCH ADJUSTMENT: Should it be necessary to change the latch setting from the factory setting, follow the steps listed below:

1. Latch adjustments should be made with the duct system turned off i.e. no pressure in the duct.
2. Grip the threaded Adjustment Rod at the spring end with pliers while loosening the Lock Nut. Loosen the Jam Nut as required for adjustment.
3. Adjust the Latch Spring tension by repositioning the Lock Nut to achieve the required Adjustment Rod extension. Refer to the other side for Adjustment Rod extension settings. It may be necessary to relocate the Spring and Adjustment Rod to another Latch Cam Hole (if so, be sure the Adjustment Rod is located in the Latch Bracket Hole corresponding to the Latch Cam Hole).
4. Tighten the Jam Nut once the Lock Nut has been adjusted.

BO Latch



BI Latch



UNINSULATED OR INSULATED DOOR

10" x 10" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES		
2	NOT AVAILABLE					
2.5	NOT AVAILABLE					
3	NOT AVAILABLE					
3.5	NOT AVAILABLE					
4	NOT AVAILABLE					
4.5	NOT AVAILABLE					
5	SL12K45 2.09	37051G 12.7	1	0.96		
5.5	SL12K45 2.09	37051G 12.7	1	1.05		
6	SL12K45 2.09	37051G 12.7	1	1.14		
6.5	SL12K45 2.09	37051G 12.7	1	1.22		
7	SL12K45 2.09	37051G 12.7	1	1.32		
7.5	SL12K45 2.09	37051G 12.7	2	0.98		
8	SL12K45 2.09	37051G 12.7	2	1.07		
8.5	SL12K45 2.09	37051G 12.7	2	1.15		
9	SL12K45 2.09	37051G 12.7	2	1.24		
9.5	SL12K45 2.09	37051G 12.7	2	1.32		
10	SL12K45 2.09	37051G 12.7	2	1.40		

UNINSULATED OR INSULATED DOOR

10" x 10" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES		
2	NOT AVAILABLE					
2.5	NOT AVAILABLE					
3	NOT AVAILABLE					
3.5	NOT AVAILABLE					
4	NOT AVAILABLE					
4.5	NOT AVAILABLE					
5	NOT AVAILABLE					
5.5	SL12K45 2.09	37051G 12.7	1	0.84		
6	SL12K45 2.09	37051G 12.7	1	0.92		
6.5	SL12K45 2.09	37051G 12.7	1	1.02		
7	SL12K45 2.09	37051G 12.7	1	1.10		
7.5	SL12K45 2.09	37051G 12.7	2	0.98		
8	SL12K45 2.09	37051G 12.7	2	1.07		
8.5	SL12K45 2.09	37051G 12.7	2	1.15		
9	SL12K45 2.09	37051G 12.7	2	1.24		
9.5	SL12K45 2.09	37051G 12.7	2	1.32		
10	SL12K45 2.09	37051G 12.7	2	1.40		

UNINSULATED OR INSULATED DOOR

24" X 10" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES		
2	NOT AVAILABLE				NOT AVAIL.	
2.5	NOT AVAILABLE				NOT AVAIL.	
3	SH8K24 4.00	37051G 12.7	1	0.85		
3.5	SH8K24 4.00	37051G 12.7	1	1.16		
4	SH8K24 4.00	37051G 12.7	2	1.00		
4.5	SH8K24 4.00	37051G 12.7	2	1.10		
5	SH8K24 4.00	37051G 12.7	3	1.10		
5.5	SH8K24 4.00	37057G 34.8	1	1.25		
6	SH8K24 4.00	37057G 34.8	1	1.32		
6.5	SH8K24 4.00	37057G 34.8	1	1.39		
7	SH8K24 4.00	37057G 34.8	2	1.46		
7.5	SH8K24 4.00	37057G 34.8	2	1.53		
8	SH8K24 4.00	37057G 34.8	2	1.33		
8.5	SH8K24 4.00	37057G 34.8	2	1.37		
9	SH8K24 4.00	37057G 34.8	2	1.42		
9.5	SH8K24 4.00	37057G 34.8	2	1.46		
10	SH8K24 4.00	37057G 34.8	2	1.50		

UNINSULATED OR INSULATED DOOR

24" X 10" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES		
2	NOT AVAILABLE				NOT AVAIL.	
2.5	NOT AVAILABLE				NOT AVAIL.	
3	SH8K24 4.00	37051G 12.7	1	0.84		
3.5	SH8K24 4.00	37051G 12.7	1	0.98		
4	SH8K24 4.00	37051G 12.7	1	1.22		
4.5	SH8K24 4.00	37051G 12.7	2	1.05		
5	SH8K24 4.00	37057G 34.8	1	1.10		
5.5	SH8K24 4.00	37057G 34.8	1	1.25		
6	SH8K24 4.00	37057G 34.8	1	1.32		
6.5	SH8K24 4.00	37057G 34.8	1	1.39		
7	SH8K24 4.00	37057G 34.8	1	1.46		
7.5	SH8K24 4.00	37057G 34.8	1	1.53		
8	SH8K24 4.00	37057G 34.8	2	1.33		
8.5	SH8K24 4.00	37057G 34.8	2	1.37		
9	SH8K24 4.00	37057G 34.8	2	1.42		
9.5	SH8K24 4.00	37057G 34.8	2	1.46		
10	SH8K24 4.00	37057G 34.8	2	1.50		

UNINSULATED OR INSULATED DOOR

12" x 12" BO PARTS SELECTION						ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES		
2	NOT AVAILABLE					
2.5	NOT AVAILABLE					
3	SL12K45 2.09	37054G 20.2	1	0.81		
3.5	SL12K45 2.09	37054G 20.2	1	0.88		
4	SL12K45 2.09	37054G 20.2	1	0.95		
4.5	SL12K45 2.09	37054G 20.2	1	1.05		
5	SL12K45 2.09	37054G 20.2	1	1.15		
5.5	SL12K45 2.09	37054G 20.2	1	1.22		
6	SL12K45 2.09	37054G 20.2	2	0.99		
6.5	SL12K45 2.09	37054G 20.2	2	1.06		
7	SL12K45 2.09	37054G 20.2	2	1.12		
7.5	SL12K45 2.09	37054G 20.2	2	1.22		
8	SL12K45 2.09	37054G 20.2	2	1.27		
8.5	SL12K45 2.09	37054G 20.2	2	1.31		
9	SL12K45 2.09	37054G 20.2	2	1.36		
9.5	SL12K45 2.09	37054G 20.2	2	1.41		
10	SL12K45 2.09	37054G 20.2	2	1.45		

UNINSULATED OR INSULATED DOOR

12" x 12" BI PARTS SELECTION						ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES		
2	NOT AVAILABLE					
2.5	NOT AVAILABLE					
3	SL12K45 2.09	37054G 20.2	1	0.70		
3.5	SL12K45 2.09	37054G 20.2	1	0.75		
4	SL12K45 2.09	37054G 20.2	1	0.84		
4.5	SL12K45 2.09	37054G 20.2	1	0.94		
5	SL12K45 2.09	37054G 20.2	1	1.00		
5.5	SL12K45 2.09	37054G 20.2	1	1.09		
6	SL12K45 2.09	37054G 20.2	1	1.15		
6.5	SL12K45 2.09	37054G 20.2	1	1.25		
7	SL12K45 2.09	37054G 20.2	1	1.33		
7.5	SL12K45 2.09	37054G 20.2	2	1.08		
8	SL12K45 2.09	37054G 20.2	2	1.13		
8.5	SL12K45 2.09	37054G 20.2	2	1.17		
9	SL12K45 2.09	37054G 20.2	2	1.22		
9.5	SL12K45 2.09	37054G 20.2	2	1.27		
10	SL12K45 2.09	37054G 20.2	2	1.31		

UNINSULATED OR INSULATED DOOR

24" X 12" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	SH8K24	4.00	37051G	12.7	1	1.00
3	SH8K24	4.00	37051G	12.7	2	1.00
3.5	SH8K24	4.00	37051G	12.7	2	1.15
4	SH8K24	4.00	37051G	12.7	2	1.25
4.5	SH8K24	4.00	37057G	12.7	3	1.09
5	SH8K24	4.00	37057G	34.8	1	1.35
5.5	SH8K24	4.00	37057G	34.8	1	1.40
6	SH8K24	4.00	37057G	34.8	1	1.48
6.5	SH8K24	4.00	37057G	34.8	2	1.28
7	SH8K24	4.00	37057G	34.8	2	1.33
7.5	SH8K24	4.00	37057G	34.8	2	1.38
8	SH8K24	4.00	37057G	34.8	2	1.43
8.5	SH8K24	4.00	37057G	34.8	2	1.48
9	SH8K24	4.00	37057G	34.8	2	1.53
9.5	SH8K24	4.00	37057G	34.8	2	1.57
10	SH8K24	4.00	37057G	34.8	2	1.62

UNINSULATED OR INSULATED DOOR

24" X 12" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	SH8K24	4.00	37051G	12.7	1	0.81
3	SH8K24	4.00	37051G	12.7	1	1.05
3.5	SH8K24	4.00	37051G	12.7	2	1.12
4	SH8K24	4.00	37051G	12.7	2	1.20
4.5	SH8K24	4.00	37057G	34.8	1	1.18
5	SH8K24	4.00	37057G	34.8	1	1.20
5.5	SH8K24	4.00	37057G	34.8	1	1.33
6	SH8K24	4.00	37057G	34.8	1	1.46
6.5	SH8K24	4.00	37057G	34.8	2	1.28
7	SH8K24	4.00	37057G	34.8	2	1.33
7.5	SH8K24	4.00	37057G	34.8	2	1.38
8	SH8K24	4.00	37057G	34.8	2	1.43
8.5	SH8K24	4.00	37057G	34.8	2	1.48
9	SH8K24	4.00	37057G	34.8	2	1.53
9.5	SH8K24	4.00	37057G	34.8	2	1.57
10	SH8K24	4.00	37057G	34.8	2	1.62

18" x 18" BO PARTS SELECTION (NO INSULATION)

18" x 18" BO PARTS SELECTION (NO INSULATION)						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	SH10K33	4.95	37054G	20.2	1	0.86
3	SH10K33	4.95	37054G	20.2	1	0.98
3.5	SH10K33	4.95	37054G	20.2	2	0.94
4	SH10K33	4.95	37054G	20.2	2	1.06
4.5	SH10K33	4.95	37054G	20.2	2	1.20
5	SH10K33	4.95	37054G	20.2	3	1.25
5.5	SH10K33	4.95	37054G	20.2	3	1.29
6 *	SH10K33	4.95	37054G	20.2	3	1.33
6.5 *	SH10K33	4.95	37054G	20.2	3	1.37
6	H16K48K	9	37057G	34.8	1	1.32
6.5	H16K48K	9	37057G	34.8	1	1.43
7	H16K48K	9	37057G	34.8	2	1.26
7.5	H16K48K	9	37057G	34.8	2	1.36
8	H16K48K	9	37057G	34.8	2	1.46
8.5	H16K48K	9	37057G	34.8	3	1.30
9	H16K48K	9	37057G	34.8	3	1.36
9.5	H16K48K	9	37057G	34.8	3	1.42
10	H16K48K	9	37057G	34.8	3	1.48

* EXTENDED ADJUSTMENT RANGE

18" x 18" BI PARTS SELECTION (NO INSULATION)

18" x 18" BI PARTS SELECTION (NO INSULATION)						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	SH10K33	4.95	37054G	20.2	1	0.84
3	SH10K33	4.95	37054G	20.2	1	0.92
3.5	SH10K33	4.95	37054G	20.2	1	1.02
4	SH10K33	4.95	37054G	20.2	2	1.14
4.5	SH10K33	4.95	37054G	20.2	2	1.25
5	SH10K33	4.95	37054G	20.2	2	1.35
5.5	SH10K33	4.95	37054G	20.2	3	1.14
6	SH10K33	4.95	37054G	20.2	3	1.32
6.5	SH10K33	4.95	37054G	20.2	3	1.50
7	H16K48K	9	37057G	34.8	1	1.43
7.5	H16K48K	9	37057G	34.8	2	1.18
8	H16K48K	9	37057G	34.8	2	1.25
8.5	H16K48K	9	37057G	34.8	2	1.32
9	H16K48K	9	37057G	34.8	2	1.38
9.5	H16K48K	9	37057G	34.8	2	1.44
10	H16K48K	9	37057G	34.8	3	1.22

18" x 18" BO w/ INSULATION

18" x 18" BO w/ INSULATION						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	SH12K39	5.94	37054G	20.2	1	0.85
3	SH12K39	5.94	37054G	20.2	1	1.11
3.5	SH12K39	5.94	37054G	20.2	1	1.22
4	SH12K39	5.94	37054G	20.2	2	1.15
4.5	SH12K39	5.94	37054G	20.2	2	1.25
5	SH12K39	5.94	37054G	20.2	3	1
5.5	SH12K39	5.94	37054G	20.2	3	1.25
6 *	SH12K39	5.94	37054G	20.2	3	1.5
6	H16K48K	9	37057G	34.8	1	1.32
6.5	H16K48K	9	37057G	34.8	1	1.43
7	H16K48K	9	37057G	34.8	2	1.26
7.5	H16K48K	9	37057G	34.8	2	1.36
8	H16K48K	9	37057G	34.8	2	1.46
8.5	H16K48K	9	37057G	34.8	3	1.30
9	H16K48K	9	37057G	34.8	3	1.36
9.5	H16K48K	9	37057G	34.8	3	1.42
10	H16K48K	9	37057G	34.8	3	1.48

* EXTENDED ADJUSTMENT RANGE

18" x 18" BI w/ INSULATION

18" x 18" BI w/ INSULATION						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	SH12K39	5.94	37054G	20.2	1	0.75
3	SH12K39	5.94	37054G	20.2	1	0.94
3.5	SH12K39	5.94	37054G	20.2	1	1.06
4	SH12K39	5.94	37054G	20.2	1	1.27
4.5	SH12K39	5.94	37054G	20.2	1	1.4
5	SH12K39	5.94	37054G	20.2	2	1.2
5.5	SH12K39	5.94	37054G	20.2	2	1.37
6	SH12K39	5.94	37054G	20.2	3	1.25
6.5	SH12K39	5.94	37054G	20.2	3	1.45
7	H16K48K	9	37057G	34.8	1	1.43
7.5	H16K48K	9	37057G	34.8	2	1.18
8	H16K48K	9	37057G	34.8	2	1.25
8.5	H16K48K	9	37057G	34.8	2	1.32
9	H16K48K	9	37057G	34.8	2	1.38
9.5	H16K48K	9	37057G	34.8	2	1.44
10	H16K48K	9	37057G	34.8	3	1.22

24" x 24" BO PARTS SELECTION (NO INSULATION)						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	SH12K39	5.94	37057G	34.8	1	1.13
2.5	SH12K39	5.94	37057G	34.8	1	1.28
3	SH12K39	5.94	37057G	34.8	1	1.51
3.5	SH12K39	5.94	37057G	34.8	2	1.33
4	SH12K39	5.94	37057G	34.8	2	1.48
4.5	SH12K39	5.94	37057G	34.8	3	1.30
5	H16K48K	9.00	37057G	34.8	3	1.35
5.5	H16K48K	9.00	37057G	34.8	3	1.40
6 *	H16K48K	9.00	37057G	34.8	3	1.45
6.5 *	H16K48K	9.00	37057G	34.8	3	1.50
6	SH20R50	16.50	37057G	34.8	3	1.28
6.5	SH20R50	16.50	37057G	34.8	3	1.37
7	SH20R50	16.50	37057G	34.8	3	1.46
7.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.36
8	SH20R50	16.50	37057G	34.8	1 & 3 **	1.55
8.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.60
9	SH20R50	16.50	37057G	34.8	1 & 3 **	1.64
9.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.67
10	SH20R50	16.50	37057G	34.8	1 & 3 **	NOT AVAIL.

* EXTENDED ADJUSTMENT RANGE

** ROD IN HOLE #2

24" x 24" BI PARTS SELECTION (NO INSULATION)						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	SH12K39	5.94	37057G	34.8	1	1.05
2.5	SH12K39	5.94	37057G	34.8	1	1.27
3	SH12K39	5.94	37057G	34.8	1	1.40
3.5	SH12K39	5.94	37057G	34.8	1	1.55
4	SH12K39	5.94	37057G	34.8	2	1.44
4.5	SH12K39	5.94	37057G	34.8	2	1.50
5	SH12K39	5.94	37057G	34.8	3	1.38
5.5 *	SH12K39	5.94	37057G	34.8	3	1.48
6 *	SH12K39	5.94	37057G	34.8	3	1.58
6.5 *	SH12K39	5.94	37057G	34.8	3	1.68
5.5	H16K48K	9.00	37057G	34.8	3	1.28
6	H16K48K	9.00	37057G	34.8	3	1.36
6.5	H16K48K	9.00	37057G	34.8	3	1.44
7	SH20R50	16.50	37057G	34.8	3	1.40
7.5	SH20R50	16.50	37057G	34.8	3	1.47
8	SH20R50	16.50	37057G	34.8	1 & 3 **	1.36
8.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.55
9	SH20R50	16.50	37057G	34.8	1 & 3 **	1.60
9.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.64
10	SH20R50	16.50	37057G	34.8	1 & 3 **	1.67

* EXTENDED ADJUSTMENT RANGE

** ROD IN HOLE #2

24" x 24" BO w/ INSULATION						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	NOT AVAILABLE					NOT AVAIL.
3	H16K48K	9.00	37057G	34.8	1	1.16
3.5	H16K48K	9.00	37057G	34.8	1	1.35
4	H16K48K	9.00	37057G	34.8	2	1.29
4.5	H16K48K	9.00	37057G	34.8	2	1.42
5	H16K48K	9.00	37057G	34.8	3	1.30
5.5	H16K48K	9.00	37057G	34.8	3	1.37
6 *	H16K48K	9.00	37057G	34.8	3	1.44
6.5 *	H16K48K	9.00	37057G	34.8	3	1.51
6	SH20R50	16.50	37057G	34.8	3	1.28
6.5	SH20R50	16.50	37057G	34.8	3	1.37
7	SH20R50	16.50	37057G	34.8	3	1.46
7.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.36
8	SH20R50	16.50	37057G	34.8	1 & 3 **	1.41
8.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.46
9	SH20R50	16.50	37057G	34.8	1 & 3 **	1.51
9.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.56
10	SH20R50	16.50	37057G	34.8	1 & 3 **	1.61

* EXTENDED ADJUSTMENT RANGE

** ROD IN HOLE #2

24" x 24" BI w/ INSULATION						ROD
IWG	COIL SPRING		LATCH SPRING		SPRING	EXTENSION
	P/N	#	P/N	#	HOLE #	INCHES
2	NOT AVAILABLE					NOT AVAIL.
2.5	NOT AVAILABLE					NOT AVAIL.
3	H16K48K	9.00	37057G	34.8	1	1.14
3.5	H16K48K	9.00	37057G	34.8	1	1.28
4	H16K48K	9.00	37057G	34.8	1	1.44
4.5	H16K48K	9.00	37057G	34.8	2	1.26
5	H16K48K	9.00	37057G	34.8	2	1.45
5.5	H16K48K	9.00	37057G	34.8	3	1.28
6	H16K48K	9.00	37057G	34.8	3	1.36
6.5	H16K48K	9.00	37057G	34.8	3	1.44
7	SH20R50	16.50	37057G	34.8	3	1.40
7.5	SH20R50	16.50	37057G	34.8	3	1.47
8	SH20R50	16.50	37057G	34.8	1 & 3 **	1.36
8.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.41
9	SH20R50	16.50	37057G	34.8	1 & 3 **	1.46
9.5	SH20R50	16.50	37057G	34.8	1 & 3 **	1.51
10	SH20R50	16.50	37057G	34.8	1 & 3 **	1.56

** ROD IN HOLE #2