

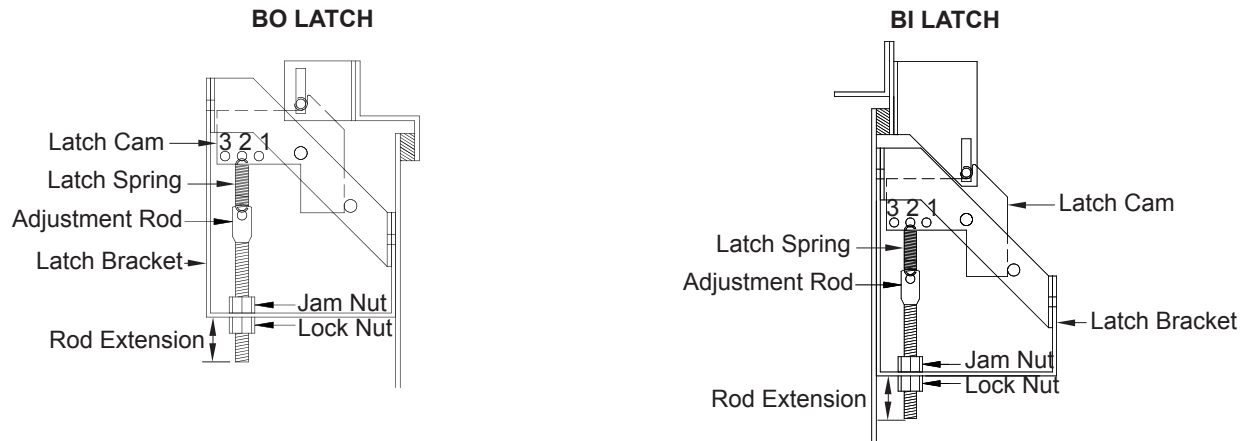


PRESSURE RELIEF DOORS

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.



PRESSURE RELIEF DOORS

Model BO & BI Operation and Maintenance Manual

10" X 10" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
3						
3.5						
4						
4.5						
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

10" X 10" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
3						
3.5						
4						
4.5						
5						
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	2	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

24" X 10" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
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	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

24" X 10" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
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	37051G	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

12" X 12" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
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

12" X 12" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
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



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24" X 12" BO PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
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

24" X 12" BI PARTS SELECTION VS. RELEASE PRESSURE						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
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	12.7	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)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
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)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
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	2	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	3	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	2	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	3	1.32
9	H16K48K	9	37057G	34.8	3	1.38
9.5	H16K48K	9	37057G	34.8	3	1.44
10	H16K48K	9	37057G	34.8	3	1.22

18" X 18" BO PARTS SELECTION (WITH INSULATION)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
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	1.00
5.5	SH12K39	5.94	37054G	20.2	3	1.25
6*	SH12K39	5.94	37054G	20.2	3	1.50
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 (WITH INSULATION)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
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	1.40
5	SH12K39	5.94	37054G	20.2	2	1.20
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



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24" X 24" BO PARTS SELECTION (NO INSULATION)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
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**	N/A

* EXTENDED ADJUSTMENT RANGE

** ROD IN HOLE #2

24" X 24" BI PARTS SELECTION (NO INSULATION)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
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	2	1.55
4	SH12K39	5.94	37057G	34.8	2	1.44
4.5	SH12K39	5.94	37057G	34.8	3	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	1 & 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 PARTS SELECTION (WITH INSULATION)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
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" BO PARTS SELECTION (WITH INSULATION)						ROD EXTENSION INCHES
IWG	COIL SPRING		LATCH SPRING		SPRING HOLE #	
	P/N	#	P/N	#		
2						
2.5						
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