

Saunders

Modular 'ES' Actuator - Assembly Procedure



Actuation & Control

- 1.0 Select correct actuator model. E.g. Model ES61 (Spring Closing).
- 2.0 Match selected bonnet type (A or KB) and size with required Actuator head size.
- 3.0 Select matching compressor/spindle adaptor kit.
Note - Please ensure that the correct spindle adaptor kit is selected to suit required mode of operation (Spring close, spring open or double acting). See attached chart for guidance.
- 3.1 Attach compressor adaptor.
- 4.0 Close Actuator to ensure that adaptor can be fully located, i.e spindle protrudes past lower cylinder.
- 4.1 Apply Loctite 243 to adaptor thread and offer compressor assembly kit to Actuator spindle.
- 4.2 Attach by turning spindle adaptor clockwise.
- 4.3 Secure using spanner on flats provided.
- 5.0 Align the toes of the compressor with the bonnet recesses, then align bonnet securing flange holes with actuator lower cylinder.
Note - Please ensure that bonnet is assembled with the air ports of the Actuator front and right (See attached Illustration 1). ES64, 71 and 55 are front and left.
- 6.0 Locate bonnet and finger tighten hexagon head bonnet/cylinder fastenings. Tighten opposite diagonals to secure.
- 7.0 Operate Actuator to ensure smooth operation.
- 8.0 Fit appropriate length black plastic indicator covers over yellow indicators on spring closing actuators.
When Actuator is assembled to valve body, fully close the Actuator and cut black tube to suit length of yellow indicators still showing, then slide black tube over indicators.

Important

Please note that on some sizes of Actuators, the compressor may protrude past the bonnet flange in the closed position.

Please ensure compressor alignment is correct with bonnet toes before opening the Actuator.

Never Operate the Actuator without the spindle adaptor connected.

ACT/053/01/09.03

SPINDLE ADAPTOR KIT SELECTION CHART

Type 'A' - Spring to Close

Size	ES61	ES62	ES63	ES64	ES65
15mm	AA015M61S*				
20mm	AA020M61S*				
25mm	AA025M61S*	AA025M62S*			
40mm	AA040M61S*	AA040M62S*			
50mm	AA050M61SR	AA050M62S*	AA050M63S*		
65mm		AA065M62S*	AA065M63S*		
80mm		AA080M62SR	AA080M63S*		
100mm			AA100M63SR	AA100M64S*	AA100M65S*
125mm				AA125M64S*	AA125M65S*
150mm				AA150M64S*	AA150M65S*

Type 'A' - Spring to Open

Size	ES68	ES69	ES70	ES71	ES72
15mm	AA015M68S*				
20mm	AA020M68S*				
25mm	AA025M68S*	AA025M69S*			
40mm	AA040M68S*	AA040M69S*			
50mm	AA050M68S*	AA050M69S*	AA050M70S*		
65mm		AA065M69S*	AA065M70S*		
80mm		AA080M69S*	AA080M70S*		
100mm			AA100M70S*	AA100M71S*	AA100M72S*
125mm				AA125M71S*	AA125M72S*
150mm				AA150M71S*	AA150M72S*

Type 'A' - Double Acting

Size	ES54	ES55	ES56	ES57	ES58
15mm	AA015M54S*				
20mm	AA020M54S*				
25mm	AA025M54S*	AA025M55S*			
40mm	AA040M54S*	AA040M55S*			
50mm	AA050M54S*	AA050M55S*	AA050M56S*		
65mm		AA065M55S*	AA065M56S*		
80mm		AA080M55S*	AA080M56S*		
100mm			AA100M56S*	AA100M57S*	AA100M58S*
125mm				AA125M57S*	AA125M58S*
150mm				AA150M57S*	AA150M58S*

*Add R for Rubber Diaphragm and P for PTFE

Type 'KB' - Spring to Close

Size	ES61	ES62	ES63	ES64	ES65
25mm	AB025M61SR	AB025M62SR			
32mm	AB025M61SR	AB025M62SR			
40mm	AB025M61SR	AB025M62SR			
50mm		AB050M62SR	AB050M63SR		
65mm		AB065M62SR	AB065M63SR		
80mm			AB080M63SR		
100mm			AB100M63SR	AB100M64SR	AB100M65SR
125mm				AB125M64SR	AB125M65SR
150mm				AB150M64SR	AB150M65SR

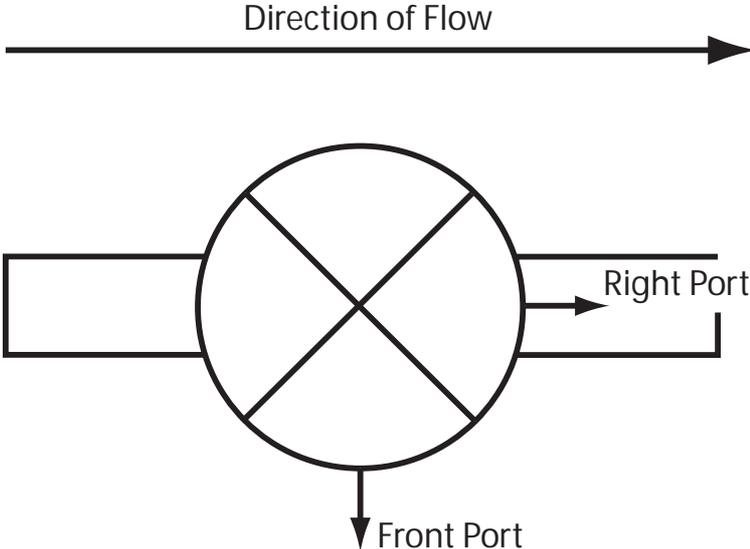
Type 'KB' - Spring to Open

Size	ES68	ES69	ES70	ES71	ES72
25mm	AB025M68SR	AB025M69SR			
32mm	AB025M68SR	AB025M69SR			
40mm	AB025M68SR	AB025M69SR			
50mm		AB050M69SR	AB050M70SR		
65mm		AB065M69SR	AB065M70SR		
80mm			AB080M70SR		
100mm			AB100M70SR	AB100M71SR	AB100M72SR
125mm				AB125M71SR	AB125M72SR
150mm				AB150M71SR	AB150M72SR

Type 'KB' - Double Acting

Size	ES54	ES55	ES56	ES57	ES58
25mm	AB025M54SR	AB025M55SR			
32mm	AB025M54SR	AB025M55SR			
40mm	AB025M54SR	AB025M55SR			
50mm		AB050M55SR	AB050M56SR		
65mm		AB065M55SR	AB065M56SR		
80mm			AB080M56SR		
100mm			AB100M56SR	AB100M57SR	AB100M58SR
125mm				AB125M57SR	AB125M58SR
150mm				AB150M57SR	AB150M58SR

ILLUSTRATION 1



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