

Kinetrol Fast Acting Actuator Booster Blocks

Specially developed fast acting actuator booster valve blocks which deliver super fast operating times for larger actuators

- Available for Kinetrol Models 16 to 60 (1.7K to 40K Nm)
- Each block assembly acts as high CV 3/2 solenoid valve
- No external piping - direct mounts to actuator air ports
- Three block sizes with CVs from 30 to 180
- 90° travel time in 2 seconds at 80% load
- Standard 5/2 Namur solenoid valve, single or dual coil pilot each valve (ATEX and FM options available)
- Tested to over 1 million actuator cycles
- Both double acting actuators (two blocks) or single acting, spring return actuators (one block)
- Block A - SIL 2 capable. Blocks B & C, redundancy built in - SIL3

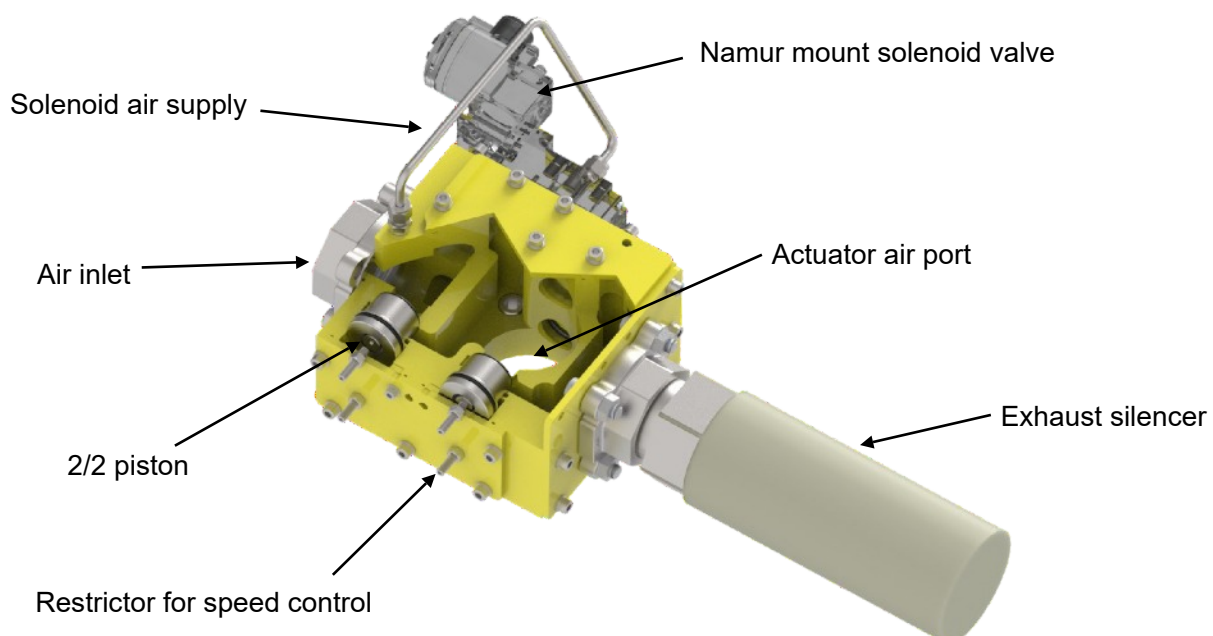
Model 21 fitted with two block 'B' variants

 ATEX Up to Category 2

Application

Fast moving large actuators need high air flow. Current flow solutions available - booster valves or standard ball valves - are often unreliable in harsh environments and require expensive external piping. Kinetrol's specially designed fast acting actuator booster blocks allow for super fast operation times combined with exceptional reliability (over 1 million actuator cycles) and durability.

The small-scale design of the blocks, coupled with the overall compact size of Kinetrol's actuators, means the units can fit into limited access spaces, and costs associated with instrument panel mounting hard-ware & pipe work or added protection, such as fire proofing, are reduced. The low SIL failure rate numbers make this a unique option to consider when putting together Emergency Shutdown Valve packages.



Kinetrol Fast Acting Actuator Booster Blocks

Specification

Materials of Construction

Fast acting block: Aluminium (Finish: Epoxy thermoset powder)

Air Inlet: Models 16 - 18: Aluminium

Models 21 - 60: Stainless steel

Exhaust outlet: Models 16 - 18: Aluminium

Models 21 - 60: Stainless steel

Pistons: Aluminium

Piston seals: NBR

Solenoid: Dependant upon chosen unit

Solenoid air supply piping: Stainless steel

Operating Temperature

-40°C to 80°C (-40°F to 176°F)

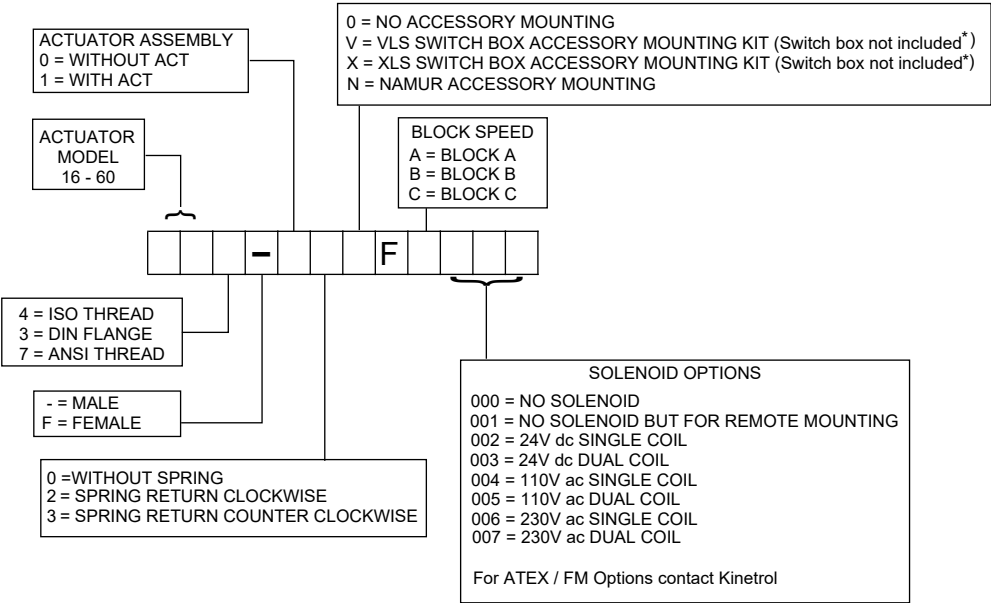
Model 16 fitted with two block 'A' variants

Fast Acting Block Choice

Actuator	Model 16			Model 18			Model 21			Model 30			Model 60		
Block Type	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Travel Time @ 80% load (secs)	1.2	N/A	N/A	1.8	1.2	N/A	3.5	2.4	N/A	5.3	3.7	N/A	11.7	2.7	1.9
Actuator + Block CV	18	N/A	N/A	30	43.1	N/A	30	43.1	N/A	30	43.1	N/A	30	130	180

To determine which block is required for your application, please use TD77 to calculate the CV necessary to achieve the required travel time.

Ordering Codes



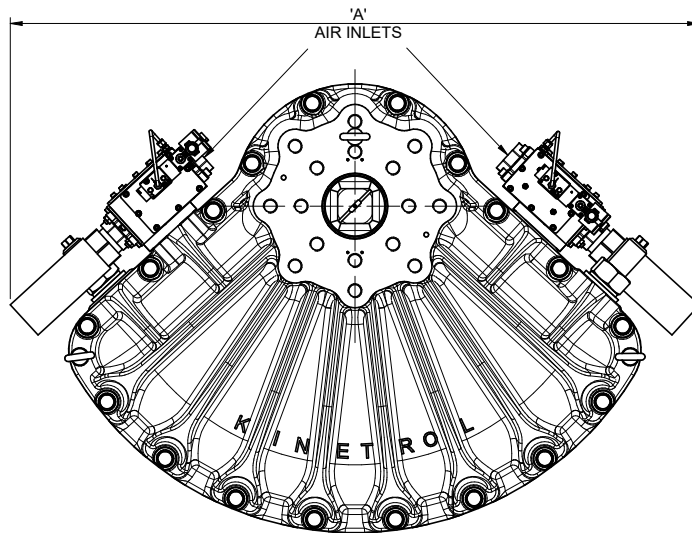
* VLS and XLS switch boxes MUST be ordered as a separate item with comment assemble items 1 and 2 together

Kinetrol Fast Acting Actuator Booster Blocks

Dimensions

Double Acting

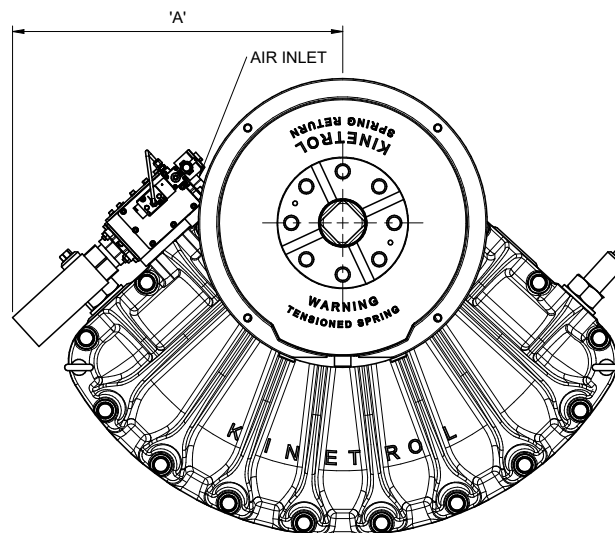
2 fast acting booster blocks



Block A			Block B		Block C	
Actuator	Dim 'A'	Air Inlets	Dim 'A'	Air Inlets	Dim 'A'	Air Inlets
164 (mm)	852	1" BSP	N/A	N/A	N/A	N/A
167 (inch)	33.6	1" NPT	N/A	N/A	N/A	N/A
184 (mm)	679	1" BSP	N/A	N/A	N/A	N/A
187 (inch)	26.8	1" NPT	N/A	N/A	N/A	N/A
214 (mm)	928	1" BSP	1274	2" BSP	N/A	N/A
217 (inch)	36.6	1" NPT	50.2	2" NPT	N/A	N/A
304 (mm)	994	1" BSP	972	2" BSP	N/A	N/A
307 (inch)	39.1	1" NPT	38.3	2" NPT	N/A	N/A
604 (mm)	1202	1" BSP	1450	2" BSP	1450	2" BSP
607 (inch)	47.3	1" NPT	57.0	2" NPT	57.0	2" NPT

Spring return

1 fast acting booster block



Block A			Block B		Block C	
Actuator	Dim 'A'	Air Inlets	Dim 'A'	Air Inlets	Dim 'A'	Air Inlets
164 (mm)	426	1" BSP	N/A	N/A	N/A	N/A
167 (inch)	16.8	1" NPT	N/A	N/A	N/A	N/A
184 (mm)	339	1" BSP	N/A	N/A	N/A	N/A
187 (inch)	13.3	1" NPT	N/A	N/A	N/A	N/A
214 (mm)	464	1" BSP	623	2" BSP	N/A	N/A
217 (inch)	18.3	1" NPT	24.5	2" NPT	N/A	N/A
304 (mm)	496	1" BSP	486	2" BSP	N/A	N/A
307 (inch)	19.5	1" NPT	19.1	2" NPT	N/A	N/A
604 (mm)	601	1" BSP	725	2" BSP	725	2" BSP
607 (inch)	23.7	1" NPT	28.5	2" NPT	28.5	2" NPT