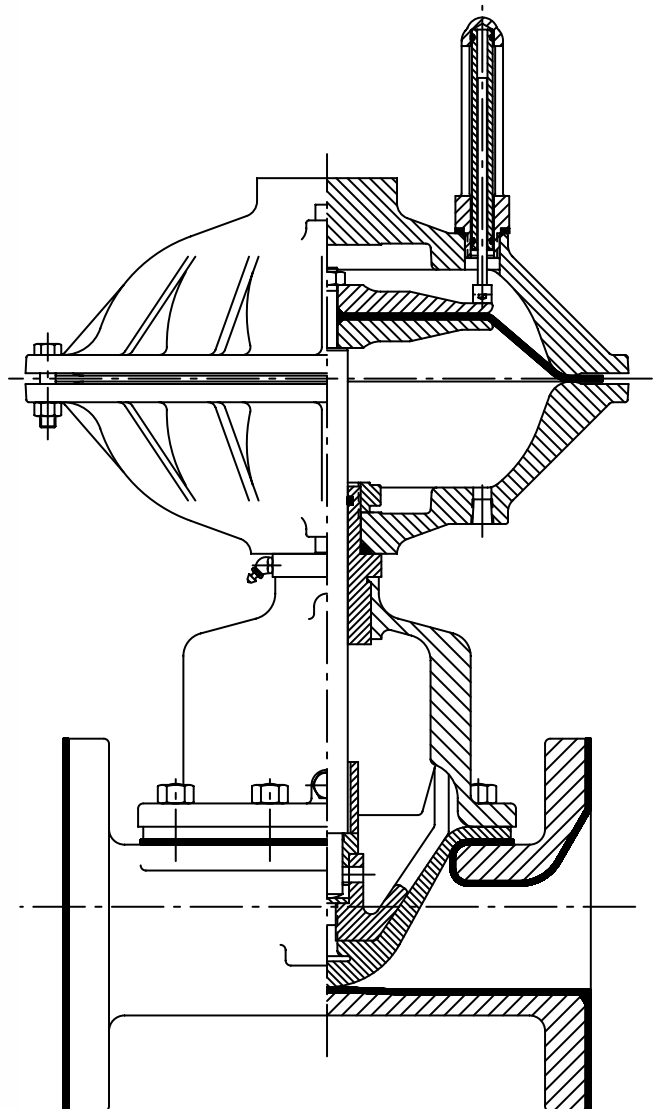


# Actuators for Straightway Valves

Pneumatic actuation for Dia-Flo® straightway valves is the same high quality, rugged airmotor actuator used on weir type valves. Use charts on the following pages to select the correct Dia-Flo® actuator for your straightway valve application.

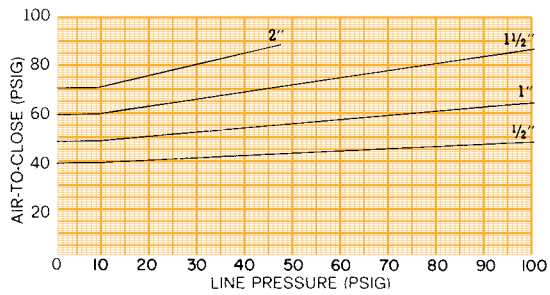
Note: Refer to actuator sizing information in the beginning of section 3 for operating instructions on using these charts.



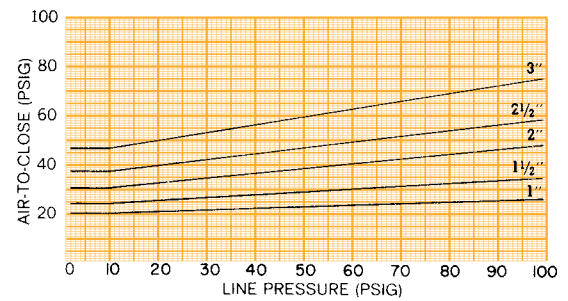
# Air Requirements for Straightway Valves

## 3100 Series Fail Open Actuators 100% ΔP Air-to-Close, Spring-to-Open

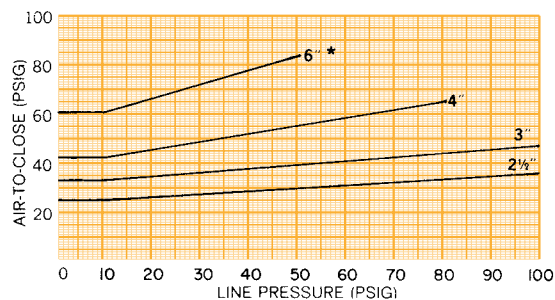
### 3125



### 3150

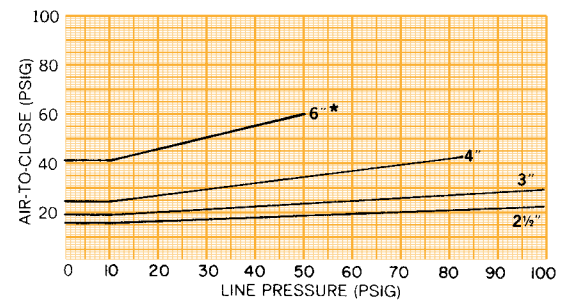


### 31101



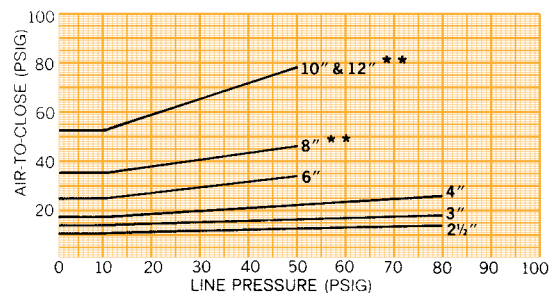
\*Stroke limited to 3 1/8"

### 31130



\*Stroke limited to 3 1/2"

### 31250



\*\*Stroke limited to 4 5/8"

**3200 Series Fail Close Actuators**  
**Air-to-Open, Spring-to-Close**  
**100% ΔP Straightway**

Use chart to determine size and spring requirements.

# Air Requirements for Straightway Valves

Actuator Size	Figure Number	Spring Number	Maximum Line Pressures (PSI) at 100% PD (Bubble Tight Shut Off) Straightway Valves								Air to Open Full Stroke at 0 PSI Line		
			1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"			
#25	3226	101	40										55
	3228	102A											30
	3227	101 & 102A	100	50									85
#50	3251	101											27
	3252	101 & 102A	180										44
#50L	3254	96	100	100	35								41
	3253	97	50										24
#75	3255	96 & 97	100	100	100	70	70	20	20				61
	3273	98					67	26	26				34
	3277	97 & 98					100	71	71	16			47
#101	3278	96 & 98					100	100	100	34			63
	3279	96, 97 & 98					100	100	100	54			76
	32102	96					13						20
#130	32103	98					67	26	26				28
	32104	96 & 97					100	31	31				30
	32105	96 & 98					100	100	100	34			48
#250	32106	97 & 98					100	71	71	16			38
	32107	96, 97 & 98					100	100	100	54			58
	32108	130					100	100	100	85	17*		85
#130	32132	96					13						16
	32133	98					67	26	26				23
	32134	96 & 97					100	31	31				24
#250	32135	96 & 98					100	100	100	34			39
	32136	97 & 98					100	71	71	16			32
	32137	96, 97 & 98					100	100	100	54			48
#250	32138	130					100	100	100	85	17†		67
	32252	129					100	100	100	85	22		30
	32253	130					100	100	100	85	10		32
	32251	129 & 130					100	100	100	85	50		62

\*Stroke Limited to 3/8"

†Stroke Limited to 3/4"

\*Stroke Limited to 4/8"

# Air Requirements for Straightway Valves

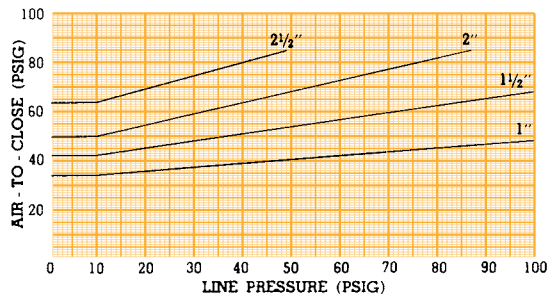
## 3300 Series Double Acting Actuators 100% ΔP

### Air-to-Open, Air-to-Close

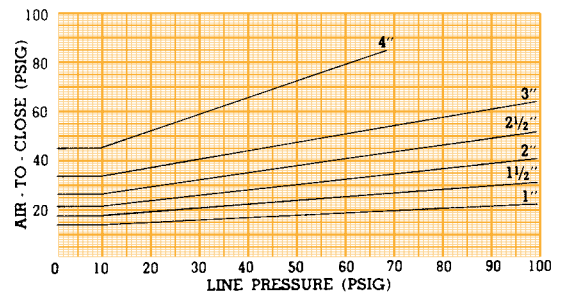
Actuators are designed to operate at air pressures up to 85 psi on diaphragm actuators. The difference in pressure between the upper and lower chambers should not exceed 85psi.

If ordering an actuator with positioner, an air cushion regulator will be added to provide 10 psi in the lower chamber. Therefore, add 10 psi to the Air-to-Close value for minimum air required.

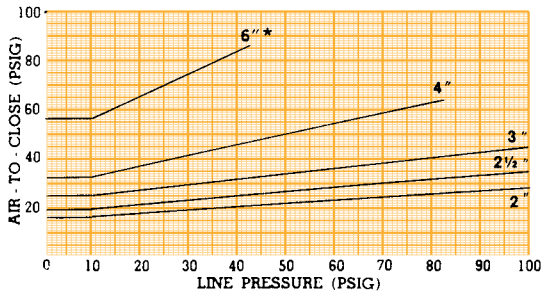
### 3325



### 3350

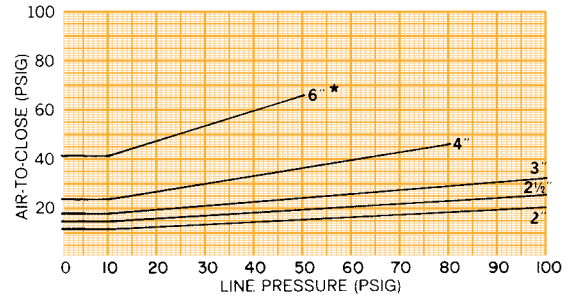


### 3375



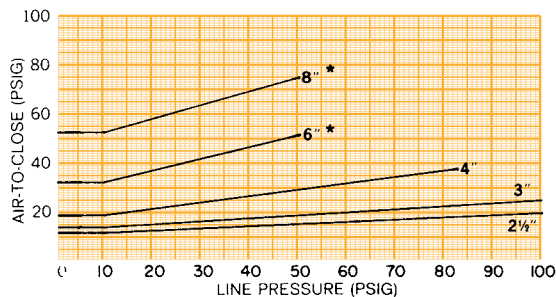
\*Stroke limited to 3"

### 33101



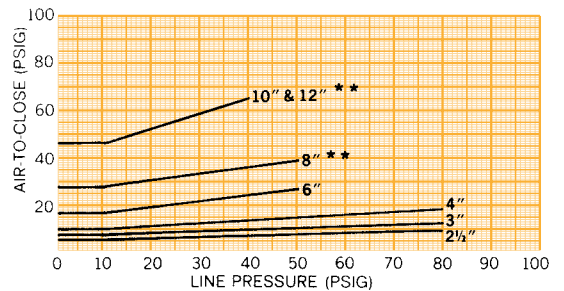
\*Stroke limited to 3 1/2"

### 33130



\*Stroke limited to 3 1/2"

### 33250



\*\*Stroke limited to 4 5/8"