## SAUNDERS ACTUATORS

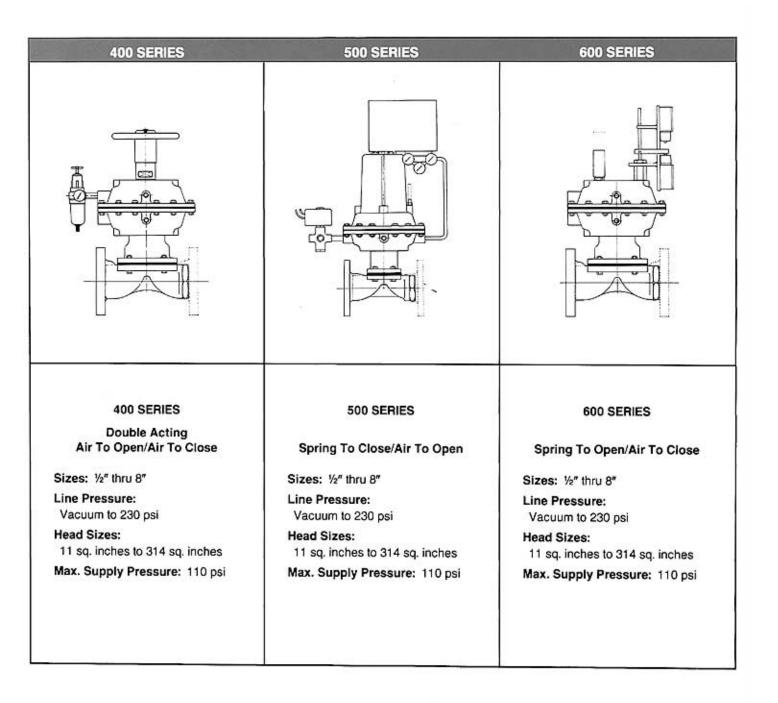
Saunders Actuators are available in three types — spring to close/air to open, spring to open/air to close, and double acting air to open/air to close. All three types are diaphragm operated and may be actuated by air, water, or oil.

Many factors determine which actuator best suits a particular process or plant. If the process determines that the valve should close on air failure, normally closed, then the spring to close/air to open type should be used. If the valve must open, normally open, then the spring to open/air to close design should be selected. For simple

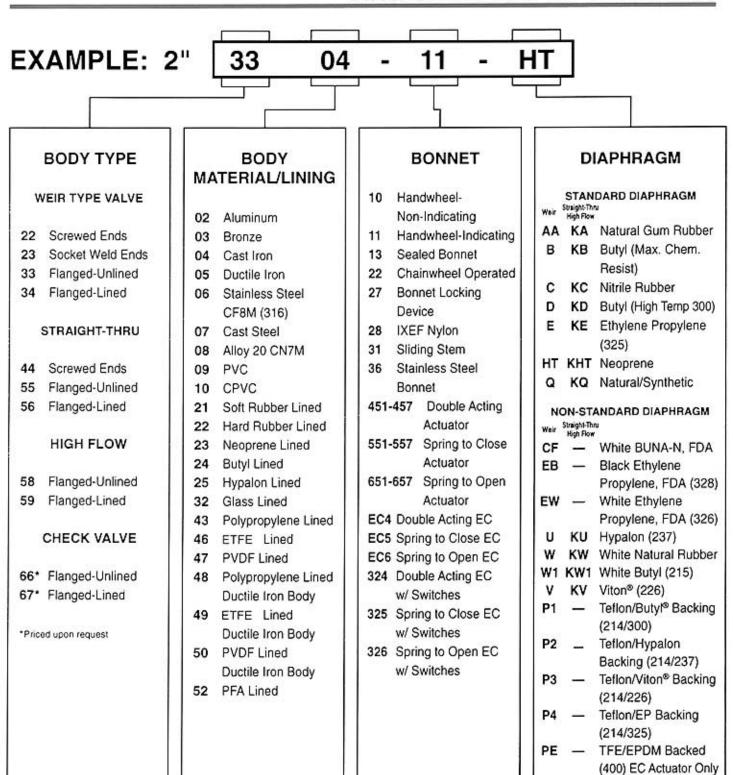
ON/OFF services where no intermediate control over the flow is needed, nor the "failed position" important, then the double acting air to open/air to close operator should be used.

Saunders operators are available with a wide variety of accessories which include position indicators, adjustable travel stops, manual handwheel overrides, positioners, micro switches, and solenoid valves.

All actuators are finished with a tough epoxy coating which gives maximum durability even in exposed locations.



## SAUNDERS FIGURE NUMBERS AND ORDERING INFORMATION



Reg. Trade Mark - DuPont

In sizes larger than 3", Weir Type diaphragms are specially reinforced for vacuum duties, and are identified by a suffix (V), e.g., q(V), C(V) diaphragms have special bronze study for shipboard use and are available in sizes 1/2" to 14".

## DIAPHRAGM VALVE PERFORMANCE DATA

## **GENERAL INFORMATION**

CLOSURE TORQUES							HANDWHEEL TURNS REQUIRED				NOMINAL VALVE TRAVELS			
Size	Weir Type (A)		Straight Thru (KB)		High Flow (K)		Valve	No. of Turns Between Open and Closed Positions			Valve	Weir	Straight	High
	Max. Cold Working Press. psi	Torque inlbs.	Max. Cold Working Press. psi	Torque inlbs.	Max. Cold Working Press. psi	Torque inlbs.	Size	Weir Type (A)	Straight Thru (KB)	High	Size	(A)	Thru (KB)	Flow (K)
								2	_					
							3/8"	21/4	_	-	3/8"	3/16"	-	-
100	000	0.7	100	00	-		1/2"	13/4	51/2	_	1/2"	1/4"	5/8"	
1/2"	232	27	100	36	-		3/4"	11/2	_	-	3/4"	5/16"	_	-
3/4"	232	35	-	-	-	_	1"	23/4	61/2	-	1"	7/16"	11/16"	-
1"	232	37	100	75	_	_	11/4"	3	_		11/4"	9/16"	_	_
11/4"	000	100					1 1/2"	31/2	61/2	8	1 1/2"	3/4"	11/16"	19/16"
1.4	232	130	_	-	-	_	2"	51/4	73/4	10	2"	11/0"	19/16"	115/16"
1 1/2"	232	130	100	75	100	155	21/2"	71/4	93/4	121/2	21/2"	17/16"	115/16"	27/16"
2"	232	160	100	155	100	450	3"	81/4	13	14	3"	15/8"	27/16"	213/16"
21/2"	145	300	100	450	400		4"	101/2	141/4	17	4"	21/8"	213/16"	35/16"
2 /2	145	300	100	450	100	540	5"	14	17	22	5"	213/16"	35/16"	47/16"
3"	145	390	100	540	100	720	6"	16 <sup>3</sup> / <sub>4</sub>	181/2	191/2	6"	33/16"	47/16"	413/16"
4"	145	624	100	720	100	880	8"	23	191/4	29	8"	49/16"	413/16"	71/4"
50	445	000		104			10"	28 <sup>3</sup> / <sub>4</sub>	29	32	10"	53/4"	71/4"	8"
5"	145	990	50	880	50	960	12"	33	32	48	12"	69/16"	8"	12"
6"	145	1550	50	960	50	1500	14"	36	48	48	14"	9"	12"	12"

Axial closure loads available on request.

To the nearest ¼ turn,