

Air Requirements for Weir Type Valves with Advantage® Actuators

Use the following charts for 100% pressure drop for these Figure Numbers:

- 2401
- 2402
- 2412
- 2431
- 2432
- 2433R
- 2433A
- 2435R
- 2437R
- 2441
- 2456
- 2464
- 2465
- 2466
- AND*
- 2406
- 2414
- 2416
- 2417
- 2424
- 2427
- 2436
- 2442
- 2443
- 2444
- 2447
- 2451
- 2463
- 2484
- 2486
- 2487
- * 1/2-2" Sizes Only

Advantage Actuator 100% ΔP Elastomer and PTFE

For columns listing air to open, figure listed is air required to open at 0 psi line pressure. Less air will be needed when line pressure is available to assist opening the valve.

100% ΔP - ELASTOMER

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open ¹	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A205	110	50	0.5	A305	150	42	0.5	A105	150	58
0.5	A206	150	90								
0.5	A208	150	50								
0.75	A208	100	45	0.75	A308	150	38	0.75	A108	125	60
0.75	A209	150	90					0.75	A108	150	68
1	A208	150	60	1	A308	150	44	1	A108	150	55
1.5	A216	100	50								
1.5	A217	150	90	1.5	A316	150	40	1.5	A116	150	52
1.5	A232	150	47								
2	A216	70	60	2	A316	150	50	2	A116	100	60
2	A217	150	90					2	A116	150	68
2	A232	150	47					2	A133	150	40
3	A233	95	62					3	A133	76	60
3	A234	150	85	3	A333	150	57	3	A133	142	80
3	A247	150	60					3	A133	150	81
								3	A147	118	60
								3	A147	150	71
4	A233	70	62	4	A333	130	60	4	A133	51	60
4	A234	110	85	4	A333	150	68	4	A133	100	80
4	A247	119	60					4	A133	125	90
4	A248	150	82	4	A347	150	49	4	A147	129	60
								4	A147	150	65

100% ΔP - PTFE

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open ¹	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A205	50	65					0.5	A105	100	60
0.5	A206	150	90	0.5	A305	150	48	0.5	A105	150	68
0.5	A208	150	50					0.5	A108	150	55
0.75	A208	140	60	0.75	A308	150	46	0.75	A108	60	60
0.75	A209	150	90					0.75	A108	150	80
1	A208	100	70	1	A308	125	60	1	A108	60	60
1	A209	150	90	1	A308	150	65				
1	A215	150	52	1	A316	150	45	1	A108	150	80
1.5	A216	125	50					1.5	A116	80	60
1.5	A217	150	90	1.5	A316	150	55	1.5	A116	150	72
1.5	A232	150	47					1.5	A133	150	35
2	A216	60	60	2	A316	100	60	2	A116	70	60
2	A217	150	90	2	A316	150	68	2	A116	150	82
2	A232	150	47	2	A333	150	23	2	A133	150	44
3	A233	50	62	3	A333	108	60	3	A133	86	80
3	A234	105	85	3	A333	150	69	3	A133	125	90
3	A247	133	62					3	A147	131	60
3	A248	150	82	3	A347	150	45	3	A147	150	63
4	A233	30	62	4	A333	69	60	4	A133	26	80
4	A234	60	85	4	A333	119	80	4	A133	60	90
4	A247	70	62	4	A333	150	90	4	A147	73	60
4	A248	126	90	4	A347	118	60	4	A147	131	80
				4	A347	150	68	4	A147	150	83



Select correct chart by finding body figure # in left margin and check for correct pressure drop condition & diaphragm condition

Air Requirements for Weir Type Valves with Advantage® Actuators

Advantage Actuator 100% ΔP Elastomer and PTFE

Use the following charts for 100% pressure drop for these Figure Numbers:

- 2403
- 2405
- 2407
- 2408
- 2410
- 2470
- 2472
- 2474
- 2501
- 2511
- 2516
- 2521
- 2522
- 2523
- 2529
- 2536
- 2538
- 2540A
- 2544
- 2545
- 2546
- 2548
- 2550
- 2551
- 2552
- 2553
- 2555
- 2556
- 2556A
- 2558
- 2559
- 2575
- AND*
- 2436
- 2444
- 2447
- 2484
- 2486
- 2487

*Sizes 3" & 4" Only

For columns listing air to open, figure listed is air required to open at 0 psi line pressure. Less air will be needed when line pressure is available to assist opening the valve.

100% ΔP - ELASTOMER

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open'	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A205	50	50	0.5	A305	140	60	0.5	A105	55	60
0.5	A206	130	90	0.5	A305	150	64	0.5	A105	150	87
0.5	A208	130	50	0.5	A308	150	45	0.5	A108	125	60
0.5	A209	150	70	0.5	A308	150	45	0.5	A108	150	65
0.75	A208	90	45	0.75	A308	150	56	0.75	A108	70	60
0.75	A209	150	90	0.75	A308	150	56	0.75	A108	150	77
1	A208	110	60	1	A308	150	47	1	A108	140	60
1	A209	150	90	1	A308	150	47	1	A108	150	62
1	A215	150	52	1	A308	150	47	1	A108	150	62
1.5	A216	90	50	1.5	A316	150	52	1.5	A116	110	60
1.5	A217	150	90	1.5	A316	150	52	1.5	A116	150	72
1.5	A232	150	47	1.5	A333	150	19	1.5	A133	150	32
2	A216	50	60	2	A316	120	60	2	A116	60	60
2	A217	140	90	2	A316	150	69	2	A116	150	87
2	A232	150	47	2	A333	150	19	2	A133	150	41
3	A233	70	62	3	A333	150	57	3	A133	52	60
3	A234	150	85	3	A333	150	57	3	A133	131	80
3	A247	150	60	3	A333	150	57	3	A133	150	86
3	A247	150	60	3	A333	150	57	3	A147	116	60
3	A247	150	60	3	A333	150	57	3	A147	150	71
4	A233	60	62	4	A333	115	60	4	A133	45	60
4	A234	90	85	4	A333	115	60	4	A133	93	80
4	A247	100	60	4	A333	150	70	4	A133	120	90
4	A247	100	60	4	A333	150	70	4	A147	91	60
4	A248	145	82	4	A347	150	56	4	A147	143	80
4	A248	145	82	4	A347	150	56	4	A147	150	83

100% ΔP - PTFE

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open'	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A209	70	70	0.5	A305	80	90	0.5	A108	125	89
0.5	A209	70	70	0.5	A308	60	60	0.5	A108	125	89
0.5	A209	70	70	0.5	A308	150	73	0.5	A108	125	89
0.75	A209	30	90	0.75	A308	20	60	0.75	A108	40	87
0.75	A209	30	90	0.75	A308	125	87	0.75	A108	40	87
1	A215	120	52	1	A308	30	60	1	A108	60	86
1	A217	150	74	1	A308	125	86	1	A108	60	86
1	A217	150	74	1	A316	150	52	1	A108	60	86
1	A217	150	74	1	A316	150	52	1	A108	60	86
1.5	A217	100	90	1.5	A316	90	60	1.5	A116	35	60
1.5	A232	150	47	1.5	A316	150	79	1.5	A116	125	90
1.5	A232	150	47	1.5	A333	150	23	1.5	A133	150	41
2	A217	90	90	2	A316	80	60	2	A116	30	60
2	A217	90	90	2	A316	150	85	2	A116	100	86
2	A232	150	47	2	A333	150	24	2	A133	150	46
2	A232	150	47	2	A333	150	24	2	A133	150	46
3	A233	40	62	3	A333	87	60	3	A133	20	65
3	A234	80	85	3	A333	137	80	3	A133	66	80
3	A247	80	62	3	A333	150	87	3	A133	86	86
3	A248	150	82	3	A347	127	60	3	A147	100	60
3	A248	150	82	3	A347	150	69	3	A147	150	76
3	A248	150	82	3	A347	150	69	3	A147	150	76
4	A234	35	85	4	A333	48	60	4	A133	35	80
4	A234	35	85	4	A333	89	80	4	A133	50	90
4	A247	50	62	4	A333	105	90	4	A147	44	60
4	A247	50	62	4	A347	82	60	4	A147	86	80
4	A248	100	90	4	A347	130	80	4	A147	100	90
4	A248	100	90	4	A347	150	84	4	A147	100	90



Select correct chart by finding body figure # in left margin and check for correct pressure drop condition & diaphragm condition

Air Requirements for Weir Type Valves with Advantage® Actuators
Advantage Actuator 0% ΔP Elastomer and PTFE

Use the following charts for 100% pressure drop for these Figure Numbers:

- 2401
- 2402
- 2412
- 2431
- 2432
- 2433R
- 2433A
- 2435R
- 2437R
- 2441
- 2456
- 2464
- 2465
- 2466
- AND*
- 2406
- 2414
- 2416
- 2417
- 2424
- 2427
- 2436
- 2442
- 2443
- 2444
- 2447
- 2451
- 2463
- 2484
- 2486
- 2487
- * 1/2-2" Sizes Only

For columns listing air to open, figure listed is air required to open at 0 psi line pressure. Less air will be needed when line pressure is available to assist opening the valve.

0% ΔP - ELASTOMER

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open ¹	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A205	90	50					0.5	A105	80	60
0.5	A206	150	90	0.5	A305	150	60	0.5	A105	150	75
0.5	A208	150	50					0.5	A108	150	60
0.75	A208	60	45	0.75	A308	150	60	0.75	A108	40	60
0.75	A209	120	90					0.75	A108	125	85
1	A208	80	60	1	A308	135	60	1	A108	80	60
1	A209	130	90	1	A308	150	65				
1	A215	150	52	1	A316	150	40	1	A108	150	85
1.5	A216	65	50					1.5	A116	125	60
1.5	A217	130	90	1.5	A316	150	50	1.5	A116	150	65
1.5	A232	150	47					1.5	A133	150	33
2	A216	30	60	2	A316	100	60	2	A116	60	60
2	A217	75	90	2	A316	150	80	2	A116	125	80
2	A232	150	47	2	A333	150	25	2	A133	150	44
3	A233	60	62	3	A333	105	60	3	A133	45	60
3	A234	92	85	3	A333	150	80	3	A133	85	80
3	A247	92	60	3	A347	147	60	3	A133	100	90
3	A248	150	76	3	A347	150	61	3	A147	88	60
				3	A347	150	61	3	A147	142	80
4	A233	35	62	4	A333	67	60	4	A133	27	60
4	A234	50	85	4	A333	90	80	4	A133	53	80
				4	A333	100	84	4	A133	80	90
4	A247	59	60	4	A347	80	60	4	A147	68	60
4	A248	83	82	4	A347	133	80	4	A147	102	80
				4	A347	150	88	4	A147	125	90

0% ΔP - PTFE

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open ¹	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A205	25	65	0.5	A305	130	60	0.5	A105	125	86
0.5	A206	150	90	0.5	A305	150	62	0.5	A108	150	70
0.5	A208	100	50								
0.5	A209	150	70	0.5	A308	150	45				
0.75	A208	70	60	0.75	A308	150	60	0.75	A108	150	85
0.75	A209	80	90								
1	A208	35	70	1	A308	100	60	1	A108	40	60
1	A209	80	90	1	A308	150	80				
1	A215	120	52	1	A316	150	57	1	A108	100	80
1	A217	150	74								
1.5	A216	70	50	1.5	A316	150	62	1.5	A116	60	60
1.5	A217	125	90	1.5	A333	150	13	1.5	A116	150	76
1.5	A232	150	47					1.5	A133	150	37
2	A216	45	60	2	A316	60	60	2	A116	40	60
2	A217	70	90	2	A316	100	80	2	A116	100	90
2	A232	150	47	2	A333	150	37	2	A133	125	60
3	A233	20	62	3	A333	64	60	3	A133	20	60
3	A234	45	85	3	A333	104	80	3	A133	44	80
3	A247	68	62	3	A333	125	90	3	A133	60	88
3	A248	114	82	3	A347	105	60	3	A147	40	60
				3	A347	150	78	3	A147	70	80
				3	A347	150	78	3	A147	80	85
4	A233	15	62	4	A333	40	60	4	A133	20	80
4	A234	30	85	4	A333	67	80	4	A133	40	90
4	A247	41	62	4	A333	80	90	4	A147	33	60
4	A248	70	90	4	A347	63	60	4	A147	77	80
				4	A347	105	80	4	A147	100	90



Select correct chart by finding body figure # in left margin and check for correct pressure drop condition & diaphragm condition

Air Requirements for Weir Type Valves with Advantage® Actuators

Advantage Actuator 0% ΔP Elastomer and PTFE

Use the following charts for 100% pressure drop for these Figure Numbers:

- 2403
- 2405
- 2407
- 2408
- 2410
- 2470
- 2472
- 2474
- 2501
- 2511
- 2516
- 2521
- 2522
- 2523
- 2529
- 2536
- 2538
- 2540A
- 2544
- 2545
- 2546
- 2548
- 2550
- 2551
- 2552
- 2553
- 2555
- 2556
- 2556A
- 2558
- 2559
- 2575
- AND*
- 2436
- 2444
- 2447
- 2484
- 2486
- 2487

*Sizes
 3" & 4" Only

For columns listing air to open, figure listed is air required to open at 0 psi line pressure. Less air will be needed when line pressure is available to assist opening the valve.

0% ΔP - ELASTOMER

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open ¹	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A206	70	90	0.5	A305	75	60	0.5	A105	20	60
0.5	A208	70	50	0.5	A305	150	89	0.5	A105	80	85
0.5	A209	140	70	0.5	A308	140	60	0.5	A108	70	60
0.5	A209	140	70	0.5	A308	150	62	0.5	A108	150	81
0.75	A208	60	45	0.75	A308	115	60	0.75	A108	30	60
0.75	A209	130	90	0.75	A308	150	71	0.75	A108	125	90
1	A208	65	60	1	A308	115	60	1	A108	80	60
1	A209	100	90	1	A308	150	74				
1	A215	150	52	1	A316	150	43*	1	A108	125	81
1.5	A216	65	50	1.5	A316	120	60	1.5	A116	75	60
1.5	A217	130	90	1.5	A316	150	70	1.5	A116	150	90
1.5	A232	150	47	1.5	A333	150	20	1.5	A133	150	38
2	A217	70	90	2	A316	65	60	2	A116	30	60
2	A232	120	47	2	A316	100	81	2	A116	80	88
2	A235	150	67	2	A333	150	32	2	A133	150	53
3	A233	50	62	3	A333	90	60	3	A133	20	62
3	A234	80	85	3	A333	140	80	3	A133	68	80
3	A247	80	60	3	A333	150	84	3	A133	80	84
3	A247	80	60	3	A347	128	60	3	A147	62	60
3	A248	130	76	3	A347	150	67	3	A147	121	80
3	A248	130	76	3	A347	150	67	3	A147	150	90
4	A233	25	62	4	A333	63	60	4	A133	46	80
4	A234	40	85	4	A333	89	80	4	A133	63	90
4	A234	40	85	4	A333	110	90	4	A147	52	60
4	A247	50	60	4	A347	80	60	4	A147	102	80
4	A248	80	82	4	A347	133	80	4	A147	125	90
4	A248	80	82	4	A347	150	88	4	A147	125	90

0% ΔP - PTFE

Reverse Acting (Spring Close/Air Open)				Double Acting (Air Close/Air Open)				Direct Acting (Air Close/Spring Open)			
Valve Size	Actuator Size	Max Line	Air to Open ¹	Valve Size	Actuator Size	Max Line	Air to Close	Valve Size	Actuator Size	Max Line	Air to Close
0.5	A209	40	70	0.5	A305	40	87	0.5	A108	60	86
0.5	A209	40	70	0.5	A308	40	60	0.5	A108	60	86
0.5	A209	40	70	0.5	A308	125	87	0.5	A108	60	86
0.75	NA	NA	NA	0.75	A308	15	60	0.75	A108	20	83
0.75	NA	NA	NA	0.75	A308	80	84	0.75	A108	20	83
1	A215	70	52	1	A308	20	60	1	A108	40	87
1	A215	70	52	1	A308	80	89	1	A108	40	87
1	A217	150	74	1	A316	115	60	1	A108	40	87
1	A217	150	74	1	A316	150	68*	1	A108	40	87
1.5	A217	90	90	1.5	A316	80	60	1.5	A116	30	60
1.5	A217	90	90	1.5	A316	150	85	1.5	A116	100	85
1.5	A232	150	47	1.5	A333	150	25	1.5	A133	150	42
2	A217	60	90	2	A316	50	60	2	A116	60	86
2	A232	100	47	2	A316	80	79	2	A116	60	86
2	A235	150	67	2	A333	150	35	2	A133	150	57
3	A234	30	85	3	A333	50	60	3	A133	37	80
3	A234	30	85	3	A333	80	80	3	A133	40	81
3	A247	45	62	3	A347	72	60	3	A147	30	60
3	A247	45	62	3	A347	115	80	3	A147	58	80
3	A248	85	82	3	A347	150	90	3	A147	80	90
3	A248	85	82	3	A347	150	90	3	A147	80	90
4	A247	30	62	4	A333	34	60	4	A133	25	80
4	A247	30	62	4	A333	56	80	4	A133	35	90
4	A247	30	62	4	A333	65	90	4	A147	31	60
4	A247	30	62	4	A347	50	60	4	A147	66	80
4	A248	65	90	4	A347	82	80	4	A147	82	90
4	A248	65	90	4	A347	100	90	4	A147	82	90



Select correct chart by finding body figure # in left margin and check for correct pressure drop condition & diaphragm condition