



Hi-Flow™ Control Valves – Valve Bodies and Actuators

DIMENSION DATA

PIPE SIZE	STROKE IN. (MM)	AREA** IN. ² (CM ²)	A (BRONZE) IN. (MM)	A (316SS) IN. (MM)	B IN. (MM)	C IN. (MM)	D IN. (MM)	E IN. (MM)
½"	⅜ (7.9)	0.341 (2.20)	3⅜ (95.3)	4⅜ (106.4)	1⅜ (34.9)	2⅜ (65.1)	4⅜ (109.5)	-
¾"	⅝ (11.1)	0.556 (3.59)	3⅝ (98.4)	4⅝ (108.0)	1⅝ (34.9)	2⅝ (65.1)	4⅝ (109.5)	-
1"	¾ (12.7)	0.886 (5.72)	4" (120.7)	5" (133.4)	1" (41.3)	3" (76.2)	3⅝ (100.0)	-
1¼"	⅞ (14.3)	1.413 (9.12)	5" (127.0)	5" (146.0)	1⅞ (46.0)	3⅞ (79.4)	3" (92.1)	-
1½"	1" (15.9)	1.920 (12.39)	5⅞ (139.7)	6" (155.6)	2" (50.8)	3" (88.9)	3⅞ (100.0)	-
2"	1⅜ (19.1)	3.142 (20.27)	6⅞ (165.1)	6" (174.6)	2⅞ (60.3)	3⅞ (95.2)	3" (79.4)	-
2½"†	1⅞ (22.23)	4.909 (12.47)	10⅞ (276.23)	10⅞ (276.23)	2.58 (65.53)	4.52 (114.81)	7" (177.80)	(4) Ø3/4 (19.05) HOLES ON A 5½ (139.70) B.C.
2½"*	1⅞ (22.23)	4.909 (12.47)	11⅞ (292.10)	11⅞ (292.10)	2.58 (65.53)	4.52 (114.81)	7⅞ (190.50)	(8) Ø7/8 (22.23) HOLES ON A 5⅞ (149.23) B.C.
3"†	2" (25.40)	7.069 (17.96)	11⅞ (298.45)	11⅞ (298.45)	2.70 (68.58)	4.64 (117.86)	7⅞ (190.50)	(4) Ø3/4 (19.05) HOLES ON A 6 (152.40) B.C.
3"*	2" (25.40)	7.069 (17.96)	12⅞ (317.50)	12⅞ (317.50)	2.70 (68.58)	4.64 (117.86)	8" (209.55)	(8) Ø7/8 (22.23) HOLES ON A 6⅞ (168.28) B.C.
4"†	2⅜ (28.58)	12.566 (31.92)	13⅞ (352.43)	13⅞ (352.43)	2.95 (74.93)	4.89 (124.21)	9" (228.60)	(8) Ø3/4 (19.05) HOLES ON A 7⅞ (190.50) B.C.
4"*	2⅜ (28.58)	12.566 (31.92)	14⅞ (368.30)	14⅞ (368.30)	2.95 (74.93)	4.89 (124.21)	10" (254.00)	(8) Ø7/8 (22.23) HOLES ON A 7⅞ (200.03) B.C.

†125/250# flange rating.
*250/300# flange rating.
**Note: Unbalanced area of plug (Ap).

Air-to-Lower

Air-to-Raise

**Effective diaphragm area (A_e) decreases linearly with stroke: 20 in.² (129 cm²) — 2 in.²/in. (.5 cm²/mm); 45 in.² (290 cm²) — 3 in.²/in. (.76 cm²/mm); 80 in.² (516 cm²) — 3.5 in.²/in. (.89 cm²/mm).

TERM* NO.	PART NO.†	ACTION	T _{STROKE MAX} IN. (MM)	A _e ** IN. ² (CM ²)	A IN. (MM)	B IN. (MM)	C IN. (MM)	D IN. (MM)	E IN. (MM)	F IN. (MM)	G IN. (MM)	P _{max} PSI (KG/CM ²)
-220	15S620	AIR-TO-LOWER	1 (25.4)	20 (129)	1½ (38.1)	3 (76.2)	1⅞ (17.5)	3⅞ (92.1)	7⅞ (184.2)	7⅞ (196.9)	15⅞ (403.2)	100 (7.0)
-221	15S621	AIR-TO-LOWER	1 (25.4)	45 (290)	1½ (38.1)	3 (76.2)	1⅞ (17.5)	3⅞ (92.1)	7⅞ (184.2)	10⅞ (269.9)	16⅞ (420.7)	50 (3.5)
-222	15S622	AIR-TO-LOWER	1½ (38.1)	45 (290)	1⅞ (49.2)	3⅞ (95.3)	⅞ (22.2)	3⅞ (88.9)	8⅞ (212.7)	10⅞ (269.9)	18⅞ (473.1)	100 (7.0)
-223	15S623	AIR-TO-LOWER	1½ (38.1)	80 (516)	1⅞ (49.2)	3⅞ (95.3)	⅞ (22.2)	3⅞ (88.9)	8⅞ (212.7)	13⅞ (339.7)	20 (508.0)	50 (3.5)
-230	15S630	AIR-TO-RAISE	1 (25.4)	20 (129)	1½ (38.1)	3 (76.2)	1⅞ (17.5)	3 (76.2)	-	7⅞ (196.9)	17⅞ (436.6)	100 (7.0)
-231	15S631	AIR-TO-RAISE	1 (25.4)	45 (290)	1½ (38.1)	3 (76.2)	1⅞ (17.5)	3 (76.2)	-	10⅞ (269.9)	17⅞ (452.4)	50 (3.5)
-233	15S633	AIR-TO-RAISE	1½ (38.1)	80 (516)	1⅞ (49.2)	3⅞ (95.3)	⅞ (22.2)	3 (76.2)	-	13⅞ (339.7)	22⅞ (565.9)	50 (3.5)

*Add Termination No. suffix to base Valve Model No. for complete valve automation package.
†Specify Part No. for Pneumatic Actuator assembly only.

Valves

W.E. Anderson Hi-Flow Control Valves are also available in sub-assemblies of just Hi-Flow valve body or Lin-E-Aire actuator. Valve bodies can be mounted onto electric actuators or other brand pneumatic actuators. Lin-E-Aire actuators can be used to

stroke other brand valves such as butterfly or sanitary globe valves where a 3 to 15 psi control signal is desired. Consult our Valves and Controls Catalog for more detailed information.



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