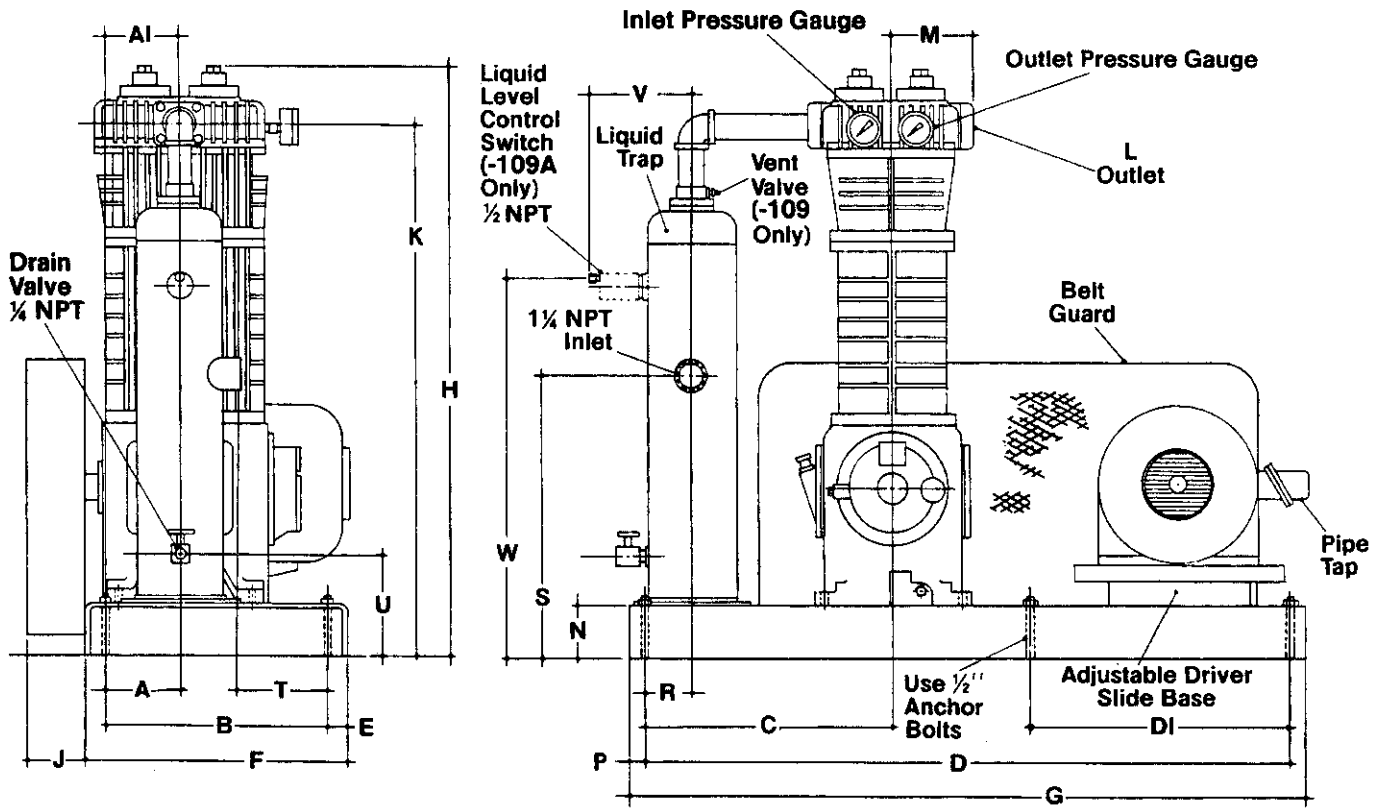


**MODELS 91, 291, 491, 691**  
**MOUNTING STYLES -109, -109A**  
**OUTLINE DIMENSIONS**

JUNE 1995  
 SUPERSEDES VE302E



**DIMENSIONS IN INCHES (CENTIMETERS)**

MODEL NO.	A	A1	B	C	D	D1	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W
91-109A	5	17/16	12	12	31 1/2	—	1 1/2	15	34	31 1/8	4	28 3/16	3/4	2 3/8	3	1 1/4	3 1/16	9 1/2	3	6 3/4	8	17 1/8
91-109A	(12.7)	(3.65)	(30.4)	(30.4)	(80.0)		(3.81)	(38.1)	(86.4)	(79.1)	(10.1)	(71.6)	NPT	(6.03)	(7.62)	(3.18)	(7.78)	(24.1)	(7.62)	(17.1)	(20.3)	(43.5)
291-109	5	—	12	15 3/4	39 1/2	—	1 1/2	15	42	30 3/8	4 1/2	26 7/16	3/4	2 1/16	3	1 1/4	3 3/16	9 1/2	2 3/4	6 3/4	8	17 1/8
291-109A	(12.7)		(30.4)	(40.0)	(100)		(3.81)	(38.1)	(107)	(78.4)	(11.4)	(67.2)	NPT	(6.83)	(7.62)	(3.18)	(9.68)	(24.1)	(6.99)	(17.1)	(20.3)	(43.5)
491-109	5 3/4	—	15	18	45 1/2	—	1 1/2	18	48	33 3/4	4 1/2	30 9/16	1 1/4	4	4	1 1/4	4	10 1/2	5	7 3/4	8	18 1/8
491-109A	(14.6)		(38.1)	(45.7)	(116)		(3.81)	(45.7)	(122)	(85.7)	(11.4)	(76.7)	NPT	(10.1)	(10.1)	(3.18)	(10.1)	(26.6)	(12.7)	(19.7)	(20.3)	(46.0)
691-109	8 1/4	—	17	19 1/4	49 1/2	19 1/4	1 1/2	20	52	43 3/16	4 1/2	39 3/8	1 1/2*	6 3/8	4	1 1/4	4 1/4	21 7/16	4 3/4	7 3/4	8	29
691-109A	(20.9)		(43.1)	(48.8)	(126)	(50.1)	(3.80)	(50.8)	(132)	(110)	(11.4)	(99.3)	NPT	(16.1)	(10.1)	(3.18)	(10.4)	(54.5)	(12.0)	(19.7)	(20.3)	(73.6)

\*2 or 1 1/4 Optional