



SAFETY-RELIEF VALVE

MODEL 1500 -1600 - 1700
CORRECTION FACTORS

TABLE 1

MOLECULAR WT. AND VALUES OF C FOR GASES

	<u>MOL. WT.</u>	<u>CP/CV</u>	<u>C</u>		<u>MOL. WT.</u>	<u>CP/CV</u>	<u>C</u>
ACETYLENE	26	1.28	345	HYDROCHLORIC ACID	36.5	1.40	356
AIR	29	1.40	356	HYDROGEN	2	1.40	356
AMMONIA	17	1.33	351	HYDROGEN SULPHIDE	34	1.32	348
ARGON	40	1.66	377	ISO-BUTANE	58	1.11	328
BENZENE	78	1.10	327	METHANE	16	1.30	346
CARBON BISULPHIDE	76	1.21	338	METHYL ALCOHOL	32	1.20	337
CARBON DIOXIDE	44	1.28	345	METHYL CHLORIDE	50.5	1.20	337
CARBON MONOXIDE	28	1.40	356	N-BUTANE	58	1.11	328
CHLORINE	71	1.36	352	NATURAL GAS	19	1.27	345
CYCLOHEXANE	84	1.08	324	NITROGEN	28	1.40	356
ETHANE	30	1.22	339	OXYGEN	32	1.40	356
ETHYLENE	28	1.20	337	PENTANE	72	1.09	325
HELIUM	4	1.66	377	PROPANE	44	1.14	331
HEXANE	86	1.08	324	SULPHUR DIOXIDE	64	1.26	342

TABLE 2

TEMPERATURE CORRECTION FACTORS FOR
GAS CAPACITY TABLES

MULTIPLY PUBLISHED CAPACITY AT 60°F BY FACTOR OPPOSITE
ACTUAL TEMPERATURES BELOW.

<u>ACTUAL TEMP °F</u>	<u>CAPACITY CORRECTION FACTOR</u>	<u>ACTUAL TEMP °F</u>	<u>CAPACITY CORRECTION FACTOR</u>
-400	2.945	50	1.010
-380	2.550	60	1.000
-360	2.280	70	.9905
-340	2.080	80	.9813
-320	1.927	90	.9723
-300	1.803	100	.9636
-280	1.700	110	.9552
-260	1.612	120	.9469
-240	1.537	130	.9388
-220	1.472	140	.9310
-200	1.414	150	.9233
-180	1.363	160	.9158
-160	1.317	180	.9014
-140	1.275	200	.8876
-120	1.237	220	.8746
-100	1.202	240	.8619
-90	1.186	260	.8498
-80	1.170	280	.8383
-70	1.155	300	.8272
-60	1.140	320	.8165
-50	1.126	340	.8062
-40	1.113	360	.7963
-30	1.100	380	.7868
-20	1.087	400	.7776
-10	1.075	420	.7687
0	1.063	440	.7592
10	1.052	460	.7518
20	1.041	480	.7438
30	1.030	500	.7360
40	1.020		

TABLE 3

MOLECULAR WEIGHT CORRECTIONS

TO CORRECT CAPACITIES OF GASES HAVING MOLECULAR WEIGHTS
OTHER THAN 29, MULTIPLY AIR CAPACITY BY CORRECTED FACTOR.

<u>MOL. WT.</u>	<u>CORRECTION FACTOR</u>	<u>MOL. WT.</u>	<u>CORRECTION FACTOR</u>
2	3.803	62	.684
4	2.693	64	.673
6	2.198	66	.663
8	1.904	68	.653
10	1.703	70	.644
12	1.555	72	.635
14	1.439	74	.626
16	1.346	76	.618
18	1.269	78	.610
20	1.204	80	.602
22	1.148	82	.595
24	1.099	84	.588
26	1.056	86	.581
28	1.018	88	.574
30	.983	90	.568
32	.952	92	.561
34	.924	94	.555
36	.898	96	.550
38	.874	98	.544
40	.851	100	.539
42	.831	102	.533
44	.812	104	.528
46	.794	106	.523
48	.777	108	.518
50	.762	110	.513
52	.747	112	.509
54	.733	114	.504
56	.720	116	.500
58	.707	118	.496
60	.695	120	.492