

**AL**

**Body Material**

<b>A</b>	Cast Iron
<b>AL</b>	Aluminum
<b>B</b>	Bronze
<b>D</b>	Ductile
<b>S</b>	Steel (WCB)
<b>SS</b>	Stainless Steel (CF8M)

**Thermostatic Valve  
Matrix Sample:  
AL1010N-160**

**1010**

**Valve Size**

<b>0750</b>	3/4" NPT
<b>0752</b>	1/2" NPT
<b>1210</b>	1/2" NPT
<b>1110</b>	3/4" NPT
<b>1010</b>	1" NPT
<b>1010J8</b>	1/2" SAE #8 THREADS
<b>1010J12</b>	3/4" SAE #12 THREADS
<b>1010J16</b>	1" SAE #16 THREADS
<b>1011</b>	1" NPT 2-WAY
<b>1111</b>	3/4" NPT 2-WAY
<b>1211</b>	1/2" NPT 2-WAY
<b>1411</b>	1 1/4" NPT 2-WAY
<b>1511</b>	1 1/2" NPT 2-WAY
<b>1530</b>	1 1/2" NPT
<b>F1530</b>	1 1/2" FLANGE
<b>1530J16</b>	1" SAE #16 THREADS
<b>1530J20</b>	1 1/4" SAE #20 THREADS
<b>1530J24</b>	1 1/2" SAE #24 THREADS
<b>2010-1</b>	1 1/2" NPT
<b>2010</b>	2" NPT
<b>F2010</b>	2" FLANGE
<b>2010J24</b>	1 1/2" SAE #24 THREADS
<b>2010J32</b>	2" SAE #32 THREADS
<b>2012</b>	2" NPT T-STYLE
<b>F2012</b>	2" FLANGE T-STYLE
<b>2012J24</b>	1 1/2" SAE #24 THREADS
<b>2012J32</b>	2" SAE #32 THREADS
<b>2013</b>	2" T W/ MOUNTING RIBS
<b>S2014</b>	2" SOCKET WELD
<b>S2014-1</b>	1 1/2" SOCKET WELD
<b>S2015</b>	2" SOCKET WELD REVERSE
<b>S2015-1</b>	1 1/2" SW REVERSE
<b>2510</b>	2 1/2" FLANGE
<b>3010</b>	3" FLANGE
<b>4010</b>	4" FLANGE
<b>5010</b>	5" FLANGE
<b>6010</b>	6" FLANGE

**N**

**Special Requirements**

<b>C</b>	NO COVER
<b>D</b>	LOW FLOW OPTION
<b>E</b>	NEOPRENE O-RING
<b>F</b>	SOCKET WELD FOLLOWED BY ORIFICE SIZE IN 32 <sup>ND</sup> OF AN INCH (F16= 1/2" ORIFICE)
<b>G</b>	PRIVATE LABEL
<b>J</b>	SAE O-RING THREADS
<b>K</b>	BLACK PAINT FINISH
<b>L</b>	SS CHANNEL
<b>M</b>	MANUAL OVERRIDE
<b>N</b>	NO NAME PLATE
<b>P</b>	NICKEL PLATED ELEMENT
<b>S</b>	STUDS
<b>T</b>	PRESSURE TEST T20 = 200 PSI WORKING PRESSURE T22 = 220 PSI WORKING PRESSURE T24 = 240 PSI WORKING PRESSURE ETC.....
<b>U</b>	METRIC
<b>V</b>	VITON O-RING
<b>W</b>	WEEP HOLE FOLLOWED BY SIZE IN 32 <sup>ND</sup> OF AN INCH W1 = 1/32" WEEP HOLE W2 = 1/16" WEEP HOLE W3 = 3/32" WEEP HOLE ETC.....
<b>X</b>	300# FLANGE, STEEL & STAINLESS STEEL VALVES ONLY
<b>-X</b>	SPECIAL DESIGNATION

**160**

**Temperature Settings**

THERMOSTATIC ELEMENT PART NUMBER									
FPE P/N	0760	1060	1560	2040	2050	2055	2096	2125X	2433
VALVE MODEL NUMBER USED IN	0750 0752	1010 1210 1010J8 1010J12 1010J16	1011 1011 1530 SERIES 2015-1	2014 2014-1 2015 2015-1	2010 SERIES 2012/13 2010 2012/13 2510 3010 4010 5010 6010	2010 SERIES 2012/13 2010 2012/13 2510 3010 4010 5010 6010	AMOT 1096 EQUIV.	AMOT 1125X EQUIV.	AMOT 2433 EQUIV.

NOMINAL *F	THERMOSTATIC ELEMENT TEMPERATURE RANGES								
	0760	1060	1560	2040	2050	2055	2096	2125	2433
040						35-52**			
045					32-50		32-50		32-50
055					47-68	47-68**	47-68		47-68
065					55-75		55-75		55-75
075					68-86	68-86	68-86	65-85	68-86
080	70-90**	70-90	70-90					70-90	
090		80-100	80-100		81-95	85-100**	81-95		81-95
095					86-104		86-104	85-105	86-104
100	90-110	90-110	90-110		93-108		93-108	90-110	93-108
105					95-113	100-115**	95-113		95-113
110	100-120	100-120	100-120		100-117		100-117	100-120	100-117
115					104-122		104-122		104-122
120	110-130	110-130	110-130	110-130	110-130		110-130	110-130	110-130
130	120-140	120-140	120-140	120-140	124-140	125-140**	124-140	120-140	124-140
135		125-145	125-145		129-145		129-145		129-145
140	125-145	130-150	130-150	126-152	135-151	135-151	135-151	130-150	135-151
145		140-155**							
150		140-160	140-160	140-160	146-152	145-160**	146-152		146-152
155					150-165		150-165		150-165
160	150-170	150-170	150-170		155-172		155-172	150-170	155-172
165					160-175		160-175		160-175
170	156-174	160-170	160-180	160-176	165-180		165-180	160-180	165-180
175			170-185		170-185		170-185		170-185
180	170-185	170-190	175-190	175-190**	175-190		175-190	170-190	175-190
185					180-196		180-196		180-196
190		180-195	185-200	180-195	185-200		185-200		185-200
195		185-200		185-200	188-208		188-208		188-208
200	187-206	190-210	190-210	190-206				190-210	
205			198-218		195-215		195-215		195-215
210		198-218		200-215**	200-215	200-220**	200-215		200-215
220				212-225**	209-225		209-225		209-225
230		220-235	220-240	215-240	219-239		219-239		219-239
240	230-250			230-250**	226-252		226-252	230-250	226-252
250	240-265				240-260		240-260	240-260	240-260
260					250-270		250-270**		250-270

\*\*NON-STANDARD, CONTACT FACTORY FOR DELIVERY

**Weep Hole Sizing Criteria and Flow Rates in USGPM of Water**

System Water Press.	F.P.E. Designation AMOT Designation	W-1	W-2	W-3	W-4	W-6	W-8	W-12	W-16
		Hole Size	1/32"	1/16"	3/32"	1/8"	3/16"	1/4"	3/8"
10 PSIG	@ USGPM	0.292	0.372	0.835	1.480	3.340	5.940	13.400	23.800
20 PSIG	@ USGPM	0.413	0.525	1.180	2.090	4.710	8.380	18.900	33.500
30 PSIG	@ USGPM	0.506	0.643	1.440	2.560	5.770	10.250	23.100	41.000
40 PSIG	@ USGPM	0.584	0.745	1.670	2.960	6.680	11.900	26.800	47.500
50 PSIG	@ USGPM	0.653	0.831	1.870	3.300	7.460	13.200	30.000	53.000
60 PSIG	@ USGPM	0.716	0.910	2.040	3.620	8.160	14.500	32.700	58.000
80 PSIG	@ USGPM	0.827	1.050	2.360	4.190	9.450	16.800	37.900	67.300
100 PSIG	@ USGPM	0.924	1.180	2.640	4.680	10.600	18.800	42.400	75.300
120 PSIG	@ USGPM	1.010	1.290	2.890	5.130	11.600	20.600	46.400	82.400
2125X	AMOT Designation	B	C	D	F	H	G		
Hole Cv			0.118	0.264	0.468	1.060	1.880	4.240	7.530

Weep Hole size should be calculated per table to provide optimum response time with minimum water usage.

Weep Hole or Leak Hole should be sized so that the largest expected particle of foreign matter or debris in the water or fluid will pass through without blocking the weep hole. Care should be taken in selecting weep hole size to minimize water waste during periods of low water demand.

All flows listed are per weep hole. Thermostats generally require only one weep hole and each valve may contain more than one thermostat. This requires flows to be multiplied by the number of elements installed within the valve.

Caution: Care should be taken to not exceed differential pressure of more than 20 PSI across the weep hole as it may create friction and malfunction of the thermostat.

**Valve Cv's and Element Quantities**

Valve Model	Cv	Elements Required	Valve Model	Cv	Elements Required
0750	N/A	1	2012	N/A	1
1010	19	1	2013	N/A	1
1110	14	1	2014	N/A	1
1210	9.7	1	2014-1	N/A	1
1011	N/A	1	2015	N/A	1
1111	N/A	1	2015-1	N/A	1
1211	N/A	1	2510	94	2
1411	N/A	1	3010	100	2
1511	N/A	1	4010	200	4
1530	27	1	5010	350	6
2010	45	1	6010	460	9
2010-1	N/A	1			