



FLANGE DESIGNATIONS FOR WELDED & LOOSE PROCESS CONNECTIONS AT, SPM, RLT, MT Series Transmitters MS50 Series Level Switches

STANDARD MATERIALS					
Material	Designator	Material	Designator	Material	Designator
Carbon Steel	CST	316L Stainless Steel	SS6	Alloy 20	A20
304 Stainless Steel	SS4	Hastelloy C-276	HSC		

FLANGE SIZE & RATING			
Size	Pressure Rating	Raised Face	RTJ
2"	150#	R21	J21
2"	300#	R23	J23
2"	600#	R26	J26
2"	900#/1500#	R215	J215
2-1/2"	150#	R251	J251
2-1/2"	300#	R253	J253
2-1/2"	600#	R256	J256
2-1/2"	900#/1500#	R2515	J2515
3"	150#	R31	J31
3"	300#	R33	J33
3"	600#	R36	J36
3"	900#	R39	J39
3"	1500#	R315	J315
4"	150#	R41	J41
4"	300#	R43	J43
4"	600#	R46	J46
4"	1500#	R415	J415
6"	150#	R61	J61
6"	300#	R63	J63
6"	600#	R66	J66
6"	1500#	R615	J615
8"	150#	R81	J81
8"	300#	R83	J83
8"	600#	R86	J86
8"	1500#	R815	J815

TRI-CLAMP (316L SS for AT100S or SPM101S)			
Size	Designator	Size	Designator
1"	T10	2"	T20
1.5"	T15	2.5"	T25

Welded MNPT Process Connection		
Size	Rating	Designator
1"	3000#	P1
1.5"	3000#	P15
2"	3000#	P2
2.5"	3000#	P25
3"	3000#	P3
4"	3000#	P4

EXAMPLES:

1. 3", 150#, 316L SS, Raised Face Flange, welded to AT100: (WP)SS6-R31
2. 4", 300#, Carbon Steel RTJ Flange, shipped loose: (FL)CST-J43
3. 2-1/2", 316L SS Tri-Clamp for AT100S, welded: (T)25
4. 2-1/2", 316L SS Tri-Clamp for AT100S, shipped Loose: (TL)25
5. 4", 600#, Hastelloy C-276 Raised Face Flange, welded to RLT100: (WP)HSC-R46

Consult for Availability of Other Materials and Sizes



**CLASS 150 FLANGE PRESSURE RATINGS (PSI)
PER ASME B16.5-2003**

Process Temperature	A105 C. STEEL	A182 304 SS	A182 316 SS	A182 304L SS 316L SS	B462 ALLOY 20	B564 625 C276
-20 to 100 °F	285	275	275	230	290	290
200 °F	260	230	235	195	260	260
300 °F	230	205	215	175	230	230
400 °F	200	190	195	160	200	200
500 °F	170	170	170	150	170	170
600 °F	140	140	140	140	140	140
650 °F	125	125	125	125	125	125
700 °F	110	110	110	110	110	110
750 °F	95	95	95	95	95	95
800 °F	80	80	80	80	80	80
850 °F	65	65	65	65		65
900 °F	50	50	50			50
950 °F	35	35	35			35
1000 °F	20	20	20			20

**CLASS 300 FLANGE PRESSURE RATINGS (PSI)
PER ASME B16.5-2003**

Process Temperature	A105 C. STEEL	A182 304 SS	A182 316 SS	A182 304L SS 316L SS	B462 ALLOY 20	B564 625 C276
-20 to 100 °F	740	720	720	600	750	750
200 °F	680	600	620	510	740	750
300 °F	655	540	560	455	710	730
400 °F	635	495	515	420	680	700
500 °F	605	465	480	395	655	665
600 °F	570	440	450	370	605	605
650 °F	550	430	440	365	590	590
700 °F	530	420	435	360	570	570
750 °F	505	415	425	355	530	530
800 °F	410	405	420	345	510	510
850 °F	320	395	420	340		485
900 °F	230	390	415			450
950 °F	135	380	385			385
1000 °F	85	355	365			365

**CLASS 600 FLANGE PRESSURE RATINGS (PSI)
PER ASME B16.5-2003**

Process Temperature	A105 C. STEEL	A182 304 SS	A182 316 SS	A182 304L SS 316L SS	B462 ALLOY 20	B564 625 C276
-20 to 100 °F	1480	1440	1440	1200	1500	1500
200 °F	1360	1200	1240	1020	1485	1500
300 °F	1310	1075	1120	910	1420	1455
400 °F	1265	995	1025	840	1365	1395
500 °F	1205	930	955	785	1310	1330
600 °F	1135	885	900	745	1210	1210
650 °F	1100	865	885	730	1175	1175
700 °F	1060	845	870	720	1135	1135
750 °F	1015	825	855	705	1065	1065
800 °F	825	810	845	690	1015	1015
850 °F	640	790	835	675		975
900 °F	460	780	830			900
950 °F	275	765	775			775
1000 °F	170	710	725			725

