



# FLANGE DESIGNATIONS FOR WELDED & LOOSE PROCESS CONNECTIONS

AT, SPM, RLT, MT Series Transmitters  
MS50 Series Level Switch

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

3", 150#, 316L SS, Raised Face Flange, welded to AT100: (WP)SS6-R31

4", 300#, Carbon Steel RTJ Flange, shipped loose: (FL)CST-J43

2-1/2", 316L SS Tri-Clamp for AT100S, welded: (T)25

2-1/2", 316L SS Tri-Clamp for AT100S, shipped Loose: (TL)25

4", 600#, Hastelloy C-276 Raised Face Flange, welded to RLT100: (WP)HSC-R46

**Consult Factory 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 B16.5-20**

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

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