



ALLIED PIPING PRODUCTS PA, INC.

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Type 2 Shaped Nipples

Application Data

Threaded, Beveled, Grooved
Standard Weight

Recommended Applications

Allied Type 2 Branchlets are recommended for use in non-critical piping systems where pressures do not exceed 150 psi. These include air lines, condensate returns and process piping.

Temperature-Pressure Ratings

Allied Type 2 Branchlets are manufacture from material which meets the requirements of ASTM A234. However, the fittings are rated in accordance with the procedure for determining area replacement as outlined in the various ANSI codes.

Determining Working Pressure

Type 2 Branchlets have been subjected to exhaustive burst-pressure testing. Results show a 5 to 1 safety factor; that is, burst pressures were minimally five times higher than the maximum allowable working pressures indicated on the chart.

TYPE 2 BRANCHLETS - STANDARD WEIGHT

Maximum Allowable Working Pressure - Allied Branchlets Type 2 - 90° Std Wt.
Power Piping Code: ANSI B31.1—to 650° F
0 Corrosion Allowance. 0 Allowance for Mechanical Strength

Adjustments for Corrosion

To allow for corrosion, use the formula:

$$P_2 = \frac{T - C}{T} \times P_1$$

Where: P₂ = Working pressure with allowance for corrosion.

P₁ = Maximum allowable working pressure from chart.

T = Thickness of Type 2 Branchlet in inches.

C = Corrosion allowance in inches.

for Temperature

To compute the maximum allowable working pressure for ANSI B31.1 (refinery piping), multiply the pressures shown on the chart (or P₂ with corrosion allowance, if applicable) by the following factors.

Temperature (°F)	Multiplying Factor
-20 to 400	1.30
500	1.26
600	1.13
700	1.10
750	.86
800	.72

for 45-degree Branchlet

To compute the maximum allowable working pressure for 45-Degree Type 2 Branchlets, multiply the pressure determined for a 90-degree Branchlet by 0.7 for ANSI B31.1 and by 0.93 for ANSI B31.3.

BRANCH SIZE

		1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6	8	10	12	14	16	18	20	22	24				
HEADER SIZE	1/2	2315																								
	3/4	1978	1820																							
	1	1811	1679	1683																						
	1-1/4	1528	1421	1430	1346																					
	1-1/2	1386	1291	1302	1227	1193																				
	2	1178	1100	1112	1052	1024	984																			
	2-1/2	1194	1129	1139	1088	1064	1030	1088																		
	3	1038	984	994	952	932	904	956	929																	
	3-1/2	946	898	907	870	853	829	877	853	839																
	4	875	832	842	808	793	772	816	795	782	774															
	5	761	726	734	707	695	677	716	699	689	682	670														
	6	680	654	662	639	629	614	648	633	625	620	610	604													
	8	582	567	573	556	548	536	564	553	546	542	535	531	526												
	10	515	507	512	498	492	483	506	497	492	488	483	479	476	474											
	12	444	438	443	431	426	418	438	431	427	424	419	417	414	413	405										
	14	404	399	404	393	388	381	400	393	389	387	383	381	379	378	371	366									
	16	354	350	354	344	340	334	351	345	342	340	336	334	333	332	326	322	318								
	18	315	311	315	307	303	298	312	307	305	303	300	298	297	297	291	288	283	280							
	20	283	280	284	276	273	268	282	277	275	273	270	269	268	268	263	260	256	253	251						
	22	258	255	258	251	248	244	256	252	250	249	246	245	244	244	240	237	233	231	228	227					
24	236	234	237	230	228	224	235	232	229	228	226	225	224	224	220	218	214	212	210	208	207					
30	189	187	190	185	182	179	189	186	184	183	181	181	180	180	177	175	172	170	169	167	166					
36	158	156	158	154	152	149	157	155	154	153	151	151	151	151	148	146	144	142	141	140	139					