MAXIMUM ALLOWABLE LOAD FOR POLYPROPYLENE (PP-R) PIPE, ASTM F 2389 (C = 150), SDR 6

Pipe Diameter (in

Pressure Loss Due to Friction (in psi per 100 ft of length)	1/2"			3/4"			1"			1-1/4"			1-1/2"			2"			2 1/2"	
	GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WS
		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM
0.5	0.7	-	0.5	1.2	-	1	2.4	-	2.5	4.3	-	5	7.8	-	10	14.2	5	20	22.5	7.5
1	1.0	-	1	1.8	-	2	3.4	-	3.5	6.2	-	7	11.3	4	15.5	20.7	7	32	32.8	17
2	1.4	-	1.5	2.6	-	2.5	5.0	-	6	9.0	-	11.5	16.5	5.5	24	30.1	14	55	47.7	44
3	1.8	-	2	3.3	-	3.5	6.2	-	7	11.3	4	15.5	20.5	7	30	37.5	25	68	59.3	74
4	2.1	-	2	3.8	-	4	7.2	-	9	13.1	4.5	18	24.0	8	40	43.8	36	105	69.3	105
5	2.4	-	2.5	4.3	-	4.5	8.2	-	10	14.8	5	22	27.0	10	48	49.4	47	126	NP	
6	2.6	-	2.5	4.7	-	5	9.0	-	11.5	16.4	5.5	24	29.8	14	55	NP				
7	2.8	-	3	5.2	-	6	9.8	4	13	17.8	6	26	32.4	17	62					
8	3.0	-	3	5.5	-	6.5	10.5	4	14	19.1	6.5	28	NP							
9	3.2	-	3	5.9	-	7	11.2	4	15	20.4	7	30								
10	3.4	-	3.5	6.3	-	8	11.9	4	16	NP										
11	3.6	-	3.5	6.6	-	8	12.5	4.5	17											
12	3.8	-	4	6.9	-	9	13.1	4.5	18											
13	3.9	-	4	7.2	-	9	NP													
14	4.1	-	4	7.5	-	9.5														
15	4.3	-	5	7.8	-	10														
16	4.4	-	5	8.1	-	10														
17	4.6		5	8.3	-	11														
18	4.7	-	5	NP																
19	4.8	-	6																	
20	5.0	-	6																	
21	5.1	-	6																	
22	5.2	-	6																	
23	NP																			
24																				
25																				

inches)

	3"			3-1/2"		
FU	GPM	WSFU		GPM	WSFU	
FT		FM	FT		FM	FT
36	36.4	23	75	61.9	80	185
63	52.9	56	140	90.0	192	882
120	77.0	136	260	130.9	431	3000
172	95.8	221	329	163.0	646	6100
222	NP			NP		

MAXIMUM ALLOWABLE LOAD FOR POLYPROPYLENE (PP-R) PIPE, ASTM F 2389 (C = 150), SDR 7.4

Pipe Diameter (in i

Pressure Loss Due to Friction (in psi per 100 ft of length)	1/2"			3/4"			1"			1-1/4"			1-1/2"			2"			2-1/2"	
	GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WS
		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM
0.5	0.9	-	1	1.5	-	1.5	3.0	-	3	5.4	-	6.5	9.6	4	13	17.9	6	27	28.1	11
1	1.2	-	1.5	2.2	-	2	4.3	-	5	7.8	-	10	14.0	5	20	26.0	9	45	40.9	32
2	1.8	-	2	3.2	-	3	6.3	-	8	11.4	4.5	16	20.3	7	31	37.8	26	80	59.5	75
3	2.2	-	2	4.0	-	4	7.8	-	10	14.1	5	20	25.3	9	43	47.1	42	116	74.1	124
4	2.6	-	2.5	4.7	-	5.5	9.2	-	12	16.5	5.5	24	29.6	14	54	55.0	63	150	86.5	180
5	3.0	-	3	5.3	-	6.5	10.3	4	14	18.6	6	28	33.4	17	68	62.0	80	185		NP
6	3.3	-	3.5	5.9	-	7	11.4	4.5	15.5	20.6	7	32	36.8	24	76		NP			
7	3.5	-	3.5	6.4	-	8	12.4	4.5	17.5	22.4	7.5	36		NP						
8	3.8	-	4	6.9	-	9	13.3	4.5	19	24.0	8	40								
9	4.1	-	4	7.3	-	9.5	14.2	5	20		NP									
10	4.3	-	4.5	7.7	-	9.5	15.0	5	22											
11	4.5	-	5	8.1	-	10	15.8	5.5	23											
12	4.7	-	5.5	8.5	-	11		NP												
13	4.9	-	6	8.9	-	12														
14	5.1	-	6	9.3	-	12														
15	5.3	-	6.5	9.6	4	13														
16	5.5	-	6.5		NP															
17	5.7	-	6.5																	
18	5.9	-	7																	
19	6.1	-	7																	
20	6.2	-	7																	
21		NP																		
22																				
23																				
24																				
25																				

inches)

	3"			3-1/2"			4"			6"			8"			10"		
FU	GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU	
FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT
50	45.7	40	113	77.1	140	260	108.3	295	417	207.3	1000	1000	286.2	1676	1676	671.5	6700	6700
90	66.4	93	207	112.1	312	435	157.5	610	677	301.5	1815	1815	416.2	2875	2875	976.8	18000	18000
172	96.5	225	358	163.1	646	712	229.1	1164	1164	NP			NP			NP		
246	120.3	362	477	NP			NP											
308	NP																	

MAXIMUM ALLOWABLE LOAD FOR POLYPROPYLENE (PP-R) PIPE, ASTM F 2389 (C = 150), SDR 11

Pipe Diameter (in i

Pressure Loss Due to Friction (in psi per 100 ft of length)	1/2"			3/4"			1"			1-1/4"			1-1/2"			2"			2-1/2"	
	GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WS
		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM
0.5	1.2	-	1	2.1	-	2	4.1	-	4	7.3	-	9.5	13.2	4.5	19	24.2	8	40	38.6	27
1	1.7	-	2	3.1		3	6.0	-	7	10.6	4	14	19.2	6.5	29	35.2	20	70	56.2	66
2	2.5	-	2.5	4.5	-	5	8.7	-	11	15.4	5	22.5	27.9	11	50	51.2	50	133	81.8	155
3	3.1	-	3	5.6	-	6.5	10.8	4	14.5	19.2	6.5	28	34.7	20	69	63.8	86	194	101.8	255
4	3.6	-	3.5	6.5	-	8	12.6	4.5	17.5	22.5	7.5	36	40.5	30	88	74.5	126	248		NP
5	4.0	-	4	7.4	-	9.5	14.2	5	20	25.3	8.5	43	45.7	40	114		NP			
6	4.4	-	5	8.1	-	10	15.7	5	23.5	28.0	11	50	50.5	50	130					
7	4.8	-	6	8.8	-	11.5	17.1	5.5	25	30.4	14	56		NP						
8	5.2	-	6	9.5	4	12.5	18.4	6	27.5		NP									
9	5.5	-	6.5	10.1	4	13.5	19.6	6.5	29											
10	5.9	-	7	10.7	4	14.5	20.7	7	32											
11	6.2	-	7.5	11.3	4.5	15.5		NP												
12	6.5		8	11.8	4.5	16.5														
13	6.7	-	8.5	12.4	4.5	17.5														
14	7.0	-	9		NP															
15	7.3		9.5																	
16	7.6	-	9.5																	
17	7.8	-	10																	
18		NP																		
19																				
20																				
21																				
22																				
23																				
24																				
25																				

inches)

	3"			3-1/2"			4"			6"			8"			10"		
SFU	GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU		GPM	WSFU	
FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT		FM	FT
82	62.3	81	186	105.8	277	405	147.9	539	627	283.1	1649	1649	510.1	3840	3840	919.0	16000	16000
156	90.6	194	328	153.8	579	660	215.1	1055	1055	411.8	2872	2872	742.0	9890	9890	1336.7	24000	24000
284	131.8	436	538	223.8	1123	1123	312.8	1924	1924	NP			NP			NP		
384	164.1	655	718	NP			NP											
	NP																	