

Pipe Flow rates Q - Velocity v- Pressure Drops R

PP-RCT Solid Wall D121...  
 20°C/2.0 Mpa • 70°C/1.0 Mpa

Temperature: 60 °C  
 Pipe Friction Factor: 0.007  
 Pipe Roughness: 0.0070 mm



Q = Flow rate (l/s)		v = Flow Velocity (m/s)						R = Pressure Drop (mbar/Mtr)				
d x s	16x2.2	20x2.8	25x3.5	32x4.4	40x5.5	50x6.9	63x8.6	75x10.3	90x12.3	110x15.1	125x17.1	
SDR	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
Q	ID →	11.6	14.4	18	23.2	29.0	36.2	45.8	54.4	65.4	79.8	90.8
0.03	v	0.28	0.18	0.12	0.07							
	R	1.21	0.43	0.15	0.05							
0.05	v	0.47	0.31	0.20	0.12	0.08						
	R	2.96	1.06	0.36	0.11	0.04						
0.07	v	0.66	0.43	0.28	0.17	0.11	0.07					
	R	5.37	1.90	0.66	0.20	0.07	0.02					
0.09	v	0.85	0.55	0.35	0.21	0.14	0.09					
	R	8.41	2.97	1.02	0.30	0.11	0.04					
0.10	v	0.95	0.61	0.39	0.24	0.15	0.10	0.06				
	R	10.15	3.58	1.23	0.37	0.13	0.04	0.01				
0.12	v	1.14	0.74	0.47	0.28	0.18	0.12	0.07				
	R	14.09	4.95	1.69	0.50	0.17	0.06	0.02				
0.16	v	1.51	0.98	0.63	0.38	0.24	0.16	0.10	0.07			
	R	23.71	8.29	2.82	0.84	0.29	0.10	0.03	0.01			
0.18	v	1.70	1.11	0.71	0.43	0.27	0.17	0.11	0.08			
	R	29.37	10.25	3.48	1.03	0.35	0.12	0.04	0.02			
0.20	v	1.89	1.23	0.79	0.47	0.30	0.19	0.12	0.09	0.06		
	R	35.60	12.40	4.21	1.24	0.43	0.15	0.05	0.02	0.01		
0.30	v	2.84	1.84	1.18	0.71	0.45	0.29	0.18	0.13	0.09		
	R	75.06	25.93	8.73	2.56	0.87	0.30	0.10	0.04	0.02		
0.40	v	3.79	2.46	1.57	0.95	0.61	0.39	0.24	0.17	0.12	0.08	
	R	128.16	43.99	14.73	4.29	1.46	0.50	0.16	0.07	0.03	0.01	
0.50	v	4.73	3.07	1.97	1.18	0.76	0.49	0.30	0.22	0.15	0.10	0.08
	R	194.71	66.49	22.17	6.42	2.18	0.75	0.24	0.11	0.04	0.02	0.01
0.60	v	5.68	3.69	2.36	1.42	0.91	0.58	0.36	0.26	0.18	0.12	0.09
	R	274.62	93.38	31.01	8.95	3.03	1.04	0.33	0.15	0.06	0.02	0.01
0.70	v	6.63	4.30	2.75	1.66	1.06	0.68	0.43	0.30	0.21	0.14	0.11
	R	367.82	124.63	41.24	11.86	4.00	1.37	0.44	0.19	0.08	0.03	0.02
0.80	v	7.57	4.91	3.15	1.89	1.21	0.78	0.49	0.34	0.24	0.16	0.12
	R	474.28	160.20	52.84	15.16	5.10	1.74	0.56	0.24	0.10	0.04	0.02
0.90	v	8.52	5.53	3.54	2.13	1.36	0.87	0.55	0.39	0.27	0.18	0.14
	R	593.97	200.09	65.82	18.82	6.32	2.15	0.69	0.30	0.12	0.05	0.03
1.00	v	9.47	6.14	3.93	2.37	1.51	0.97	0.61	0.43	0.30	0.20	0.15
	R	726.87	244.28	80.16	22.86	7.66	2.61	0.84	0.36	0.15	0.06	0.03
1.20	v	11.36	7.37	4.72	2.84	1.82	1.17	0.73	0.52	0.36	0.24	0.19
	R	1032.25	345.53	112.90	32.05	10.71	3.63	1.16	0.51	0.21	0.08	0.04
1.40	v	13.25	8.60	5.50	3.31	2.12	1.36	0.85	0.60	0.42	0.28	0.22
	R	1390.33	463.89	151.03	42.71	14.22	4.81	1.53	0.67	0.27	0.11	0.06
1.60	v	15.15	9.83	6.29	3.79	2.42	1.56	0.97	0.69	0.48	0.32	0.25
	R	1801.06	599.33	194.54	54.83	18.20	6.14	1.95	0.85	0.35	0.13	0.07
1.80	v	17.04	11.06	7.08	4.26	2.73	1.75	1.09	0.77	0.54	0.36	0.28
	R	2264.42	751.82	243.40	68.39	22.65	7.62	2.42	1.05	0.43	0.17	0.09
2.00	v	18.93	12.29	7.86	4.73	3.03	1.94	1.21	0.86	0.60	0.40	0.31
	R	2780.39	921.35	297.60	83.39	27.55	9.25	2.93	1.27	0.52	0.20	0.11
2.5	v	23.67	15.36	9.83	5.92	3.79	2.43	1.52	1.08	0.74	0.50	0.39
	R	4300.38	1419.65	456.45	127.17	41.81	13.98	4.41	1.91	0.78	0.30	0.16
3.00	v		18.43	11.80	7.10	4.54	2.92	1.82	1.29	0.89	0.60	0.46
	R		2024.25	648.56	179.88	58.90	19.62	6.17	2.66	1.09	0.42	0.22
3.5	v		21.50	13.76	8.28	5.30	3.40	2.13	1.51	1.04	0.70	0.54
	R		2735.09	873.90	241.50	78.81	26.16	8.21	3.54	1.44	0.55	0.29
4.0	v		24.57	15.73	9.47	6.06	3.89	2.43	1.72	1.19	0.80	0.62
	R		3552.14	1132.44	311.99	101.52	33.61	10.51	4.52	1.84	0.70	0.37
4.5	v		27.65	17.69	10.65	6.82	4.37	2.73	1.94	1.34	0.90	0.70
	R		4475.38	1424.14	391.35	127.02	41.94	13.09	5.62	2.28	0.87	0.46
5.0	v			19.66	11.83	7.57	4.86	3.04	2.15	1.49	1.00	0.77
	R			1749.01	479.56	155.30	51.16	15.93	6.83	2.77	1.05	0.56
5.5	v			21.63	13.02	8.33	5.35	3.34	2.37	1.64	1.10	0.85
	R			2107.04	576.62	186.37	61.27	19.03	8.15	3.30	1.25	0.67
6.0	v			23.59	14.20	9.09	5.83	3.64	2.58	1.79	1.20	0.93
	R			2498.21	682.53	220.22	72.26	22.41	9.58	3.88	1.47	0.78
6.5	v			25.56	15.38	9.85	6.32	3.95	2.80	1.94	1.30	1.00
	R			2922.52	797.28	256.84	84.14	26.04	11.12	4.50	1.70	0.91
7.0	v			27.52	16.57	10.60	6.81	4.25	3.01	2.08	1.40	1.08
	R			3379.96	920.86	296.23	96.89	29.94	12.77	5.16	1.95	1.04
7.5	v			29.49	17.75	11.36	7.29	4.55	3.23	2.23	1.50	1.16
	R			3870.55	1053.28	338.40	110.53	34.10	14.52	5.86	2.21	1.18

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d x s	16x2.2	20x2.8	25x3.5	32x4.4	40x5.5	50x6.9	63x8.6	75x10.3	90x12.3	110x15.1	125x17.1	
SDR	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
Q	ID →	11.6	14.4	18	23.2	29.0	36.2	45.8	54.4	65.4	79.8	90.8
8.0	v			31.46	18.93	12.12	7.78	4.86	3.44	2.38	1.60	1.24
	R			4394.26	1194.54	383.33	125.04	38.52	16.39	6.61	2.49	1.33
9.0	v				21.30	13.63	8.75	5.47	3.87	2.68	1.80	1.39
	R				1503.54	481.50	156.69	48.14	20.45	8.23	3.10	1.65
10.0	v				23.67	15.15	9.72	6.07	4.30	2.98	2.00	1.55
	R				1847.85	590.74	191.85	58.81	24.93	10.02	3.76	2.00
12.0	v				28.40	18.18	11.67	7.29	5.17	3.57	2.40	1.85
	R				2642.41	842.39	272.66	83.25	35.19	14.09	5.28	2.80
14.0	v				33.14	21.21	13.61	8.50	6.03	4.17	2.80	2.16
	R				3578.17	1138.26	367.45	111.83	47.16	18.84	7.04	3.73
16.0	v				37.87	24.24	15.55	9.72	6.89	4.77	3.20	2.47
	R				4655.12	1478.32	476.20	144.54	60.82	24.24	9.04	4.78
18.0	v					27.27	17.50	10.93	7.75	5.36	3.60	2.78
	R					1862.56	598.91	181.36	76.18	30.30	11.27	5.95
20.0	v					30.30	19.44	12.15	8.61	5.96	4.00	3.09
	R					2290.99	735.56	222.31	93.23	37.02	13.74	7.25
25.0	v					37.87	24.30	15.18	10.76	7.45	5.00	3.86
	R					3555.29	1138.19	342.67	143.23	56.66	20.95	11.03
30.0	v						29.16	18.22	12.91	8.94	6.00	4.64
	R						1627.93	488.71	203.77	80.37	29.62	15.56
35.0	v						34.03	21.26	15.07	10.42	7.00	5.41
	R						2204.75	660.41	274.82	108.14	39.75	20.84
40.0	v						38.89	24.29	17.22	11.91	8.00	6.18
	R						2868.65	857.76	356.37	139.95	51.32	26.87
45.0	v						43.75	27.33	19.37	13.40	9.00	6.95
	R						3619.62	1080.76	448.43	175.81	64.34	33.64
50.0	v						48.61	30.37	21.52	14.89	10.00	7.73
	R						4457.66	1329.40	550.98	215.71	78.81	41.16
55.0	v							33.40	23.68	16.38	11.00	8.50
	R							1603.68	664.03	259.65	94.72	49.41
60.0	v							36.44	25.83	17.87	12.00	9.27
	R							1903.59	787.56	307.63	112.07	58.41
65.0	v							39.48	27.98	19.36	13.00	10.04
	R							2229.15	921.59	359.64	130.86	68.15
70.0	v							42.51	30.13	20.85	14.00	10.82
	R							2580.33	1066.11	415.69	151.09	78.62
75.0	v							45.55	32.29	22.34	15.00	11.59
	R							2957.15	1221.11	475.78	172.76	89.83
80.0	v							48.59	34.44	23.83	16.00	12.36
	R							3359.60	1386.60	539.90	195.87	101.78
85.0	v							51.62	36.59	25.32	17.00	13.13
	R							3787.68	1562.58	608.05	220.42	114.47
90.0	v							54.66	38.74	26.81	18.00	13.91
	R							4241.40	1749.05	680.23	246.40	127.90
95.0	v								40.90	28.30	19.00	14.68
	R								1946.00	756.45	273.82	142.06
100.0	v								43.05	29.78	20.01	15.45
	R								2153.44	836.70	302.68	156.96
105.0	v								45.20	31.27	21.01	16.22
	R								2371.36	920.98	332.98	172.59
110.0	v								47.35	32.76	22.01	17.00
	R								2599.77	1009.29	364.71	188.96
115.0	v								49.50	34.25	23.01	17.77
	R								2838.67	1101.63	397.88	206.07
120.0	v								51.66	35.74	24.01	18.54
	R								3088.05	1198.01	432.49	223.91
125.0	v								53.81	37.23	25.01	19.31
	R								3347.92	1298.42	468.53	242.49
130.0	v								55.96	38.72	26.01	20.09
	R								3618.27	1402.86	506.01	261.80
135.0	v								58.11	40.21	27.01	20.86
	R								3899.10	1511.33	544.93	281.85
140.0	v								60.27	41.70	28.01	21.63
	R								4190.42	1623.83	585.28	302.64
145.0	v								62.42	43.19	29.01	22.40
	R								4492.23	1740.36	627.07	324.16