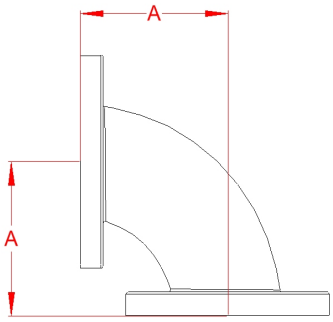
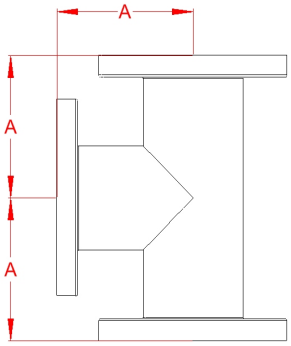
DUCTILE IRON FITTINGS

ELBOW



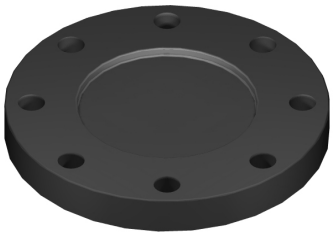
Size	A (in.)
2	4-1/2
3	5-1/2
4	6-1/2
6	8
8	9
10	11
12	12

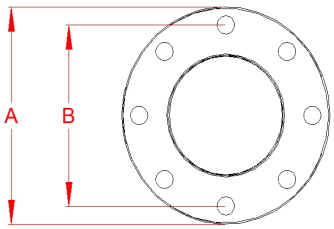
TEE



Size	A (in.)
2	4-1/2
3	5-1/2
4	6-1/2
6	8
8	9
10	11
12	12

BLIND FLANGE





Size	A (in.)	B (in.)	# Bolts	Bolt Size
2	6	4-3/4	4	5/8x2-1/4
3	7-1/2	6	4	5/8x2-1/2
4	9	7-1/2	8	5/8x3
6	11	9-1/2	8	3/4x3-1/4
8	13-1/2	11-3/4	8	3/4x3-1/2
10	16	14-1/8	12	7/8x3-3/4
12	19	17	12	7/8x3-3/4

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BOISE, ID
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208.664.2133
208.667.8775 FAX

SPOKANE, WA
800.359.9416
509.534.5616
509.535.6539 FAX

PIPE DATA

Size	Type	ID (in.)	OD (in.)	Wall (in.)	Internal Vol (gal./ft.)
1/2	Sch 40 PCV & Galv, SDR 7 Poly	0.622	0.840	0.109	0.016
	Sch 80 PVC & Galv	0.546	0.840	0.147	0.012
3/4	Sch 40 PCV & Galv, SDR 7 Poly	0.824	1.050	0.113	0.028
	Sch 80 PVC & Galv	0.742	1.050	0.154	0.022
1	Sch 40 PCV & Galv, SDR 7 Poly	1.049	1.315	0.133	0.045
	Sch 80 PVC & Galv	0.957	1.315	0.179	0.037
1-1/4	Sch 40 PCV & Galv, SDR 7 Poly	1.380	1.660	0.140	0.078
	Sch 80 PVC & Galv	1.278	1.660	0.191	0.067
1-1/2	Sch 40 PCV & Galv, SDR 7 Poly	1.610	1.900	0.145	0.106
	Sch 80 PVC & Galv	1.590	1.900	0.155	0.103
2	Sch 40 PCV & Galv, SDR 7 Poly	2.067	2.375	0.154	0.174
	Sch 80 PVC & Galv	1.939	2.375	0.218	0.153
2-1/2	Sch 40 PCV & Galv	2.469	2.875	0.203	0.249
	Sch 80 PVC & Galv	2.323	2.875	0.276	0.220
3	Sch 40 PCV & Galv	3.368	3.500	0.066	0.463
	Sch 80 PVC & Galv	2.900	3.500	0.300	0.343
4	Sch 40 PCV & Galv	4.026	4.500	0.237	0.661
	Sch 80 PVC & Galv	3.826	4.500	0.337	0.597
6	Sch 40 PCV & Galv	6.065	6.625	0.280	1.501
	Sch 80 PVC & Galv	5.761	6.625	0.432	1.354
8	Sch 40 PCV & Galv	7.981	8.625	0.322	2.599
	Sch 80 PVC & Galv	7.625	8.625	0.500	2.372
10	Sch 40 PCV & Galv	10.020	10.750	0.365	4.096
	Sch 80 PVC & Galv	9.562	10.750	0.594	3.730
12	Sch 40 PCV & Galv	11.938	12.750	0.406	5.815
	Sch 80 PVC & Galv	11.374	12.750	0.688	5.278

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SCHEDULE 40 PVC FRICTION LOSS

Friction Loss Of Water (per 100 ft) *C= 140* *Using Hazen-Williams Equation*

	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		
Flow (gpm)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Flow (gpm)
2	2.12	4.06	1.21	1.03	0.75	0.32	0.43	0.08	0.32	0.04	0.19	0.01					2
4	4.24	14.67	2.42	3.73	1.49	1.15	0.86	0.30	0.63	0.14	0.38	0.04					4
6	6.36	31.08	3.62	7.91	2.24	2.44	1.29	0.64	0.95	0.30	0.58	0.09					6
8	8.48	52.95	4.83	13.48	2.98	4.16	1.72	1.10	1.27	0.52	0.77	0.15					8
10	10.60	80.05	6.04	20.38	3.73	6.29	2.15	1.66	1.58	0.78	0.96	0.23					10
12			7.25	28.56	4.47	8.82	2.58	2.32	1.90	1.10	1.15	0.33	0.81	0.14			12
14			8.45	38.00	5.22	11.74	3.01	3.09	2.21	1.46	1.34	0.43	0.94	0.18			14
16			9.66	48.66	5.96	15.03	3.44	3.96	2.53	1.87	1.54	0.55	1.08	0.23			16
18			10.87	60.52	6.71	18.70	3.88	4.92	2.85	2.33	1.73	0.69	1.21	0.29			18
20			12.08	73.56	7.45	22.72	4.31	5.98	3.16	2.83	1.92	0.84	1.35	0.35	0.87	0.12	20
25					9.31	34.35	5.38	9.05	3.95	4.27	2.40	1.27	1.68	0.53	1.09	0.19	25
30	4"				11.18	48.15	6.46	12.68	4.75	5.99	2.88	1.78	2.02	0.75	1.31	0.26	30
35	Vel	Loss					7.54	16.87	5.54	7.97	3.36	2.36	2.35	1.00	1.52	0.35	35
40	1.01	0.12					8.61	21.60	6.33	10.20	3.84	3.03	2.69	1.27	1.74	0.44	40
45	1.14	0.15					9.69	26.87	7.12	12.69	4.32	3.76	3.03	1.58	1.96	0.55	45
50	1.26	0.18					10.76	32.66	7.91	15.43	4.80	4.57	3.36	1.93	2.18	0.67	50
60	1.52	0.25							9.49	21.62	5.76	6.41	4.04	2.70	2.61	0.94	60
70	1.77	0.33							11.07	28.77	6.72	8.53	4.71	3.59	3.05	1.25	70
80	2.02	0.43									7.68	10.92	5.38	4.60	3.48	1.60	80
90	2.28	0.53	6"								8.64	13.58	6.05	5.72	3.92	1.99	90
100	2.53	0.64	Vel	Loss							9.60	16.51	6.73	6.95	4.36	2.42	100
120	3.04	0.90	1.34	0.12									8.07	9.75	5.23	3.39	120
140	3.54	1.20	1.56	0.16									9.42	12.97	6.10	4.51	140
160	4.05	1.54	1.78	0.21									10.76	16.61	6.97	5.77	160
180	4.55	1.91	2.01	0.26	8"										7.84	7.18	180
200	5.06	2.33	2.23	0.32	Vel	Loss									8.71	8.73	200
250	6.32	3.52	2.79	0.48	1.61	0.13									10.89	13.19	250
300	7.59	4.93	3.34	0.67	1.93	0.18											300
350	8.85	6.56	3.90	0.89	2.25	0.23	10"										350
400	10.12	8.40	4.46	1.14	2.57	0.30	Vel	Loss									400
450	11.38	10.44	5.02	1.42	2.90	0.37	1.84	0.12									450
500	12.65	12.69	5.57	1.73	3.22	0.45	2.04	0.15									500
600	15.18	17.79	6.69	2.42	3.86	0.64	2.45	0.21									600
700			7.80	3.22	4.51	0.85	2.86	0.28	12"								700
800			8.92	4.13	5.15	1.09	3.27	0.36	Vel	Loss							800
900			10.03	5.13	5.79	1.35	3.68	0.45	2.59	0.19							900
1000			11.15	6.24	6.44	1.64	4.08	0.54	2.88	0.23							1000
1500			16.72	13.22	9.66	3.48	6.13	1.15	4.32	0.49							1500
2000			22.29	22.53	12.87	5.92	8.17	1.96	5.75	0.84							2000
2500			27.87	34.06	16.09	8.96	10.21	2.96	7.19	1.26							2500
3000			33.44	47.73	19.31	12.55	12.25	4.15	8.63	1.77							3000
3500			39.01	63.51	22.53	16.70	14.29	5.52	10.07	2.35							3500
4000					25.75	21.39	16.33	7.07	11.51	3.01							4000
4500					28.97	26.60	18.38	8.79	12.95	3.75							4500
5000					32.18	32.33	20.42	10.69	14.38	4.56							5000
6000					38.62	45.31	24.50	14.98	17.26	6.39							6000
7000					45.06	60.29	28.59	19.93	20.14	8.50							7000
8000							32.67	25.52	23.01	10.88							8000
9000							36.75	31.74	25.89	13.54							9000
10000							40.84	38.58	28.77	16.45							10000

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SCHEDULE 80 PVC FRICTION LOSS

Friction Loss Of Water (per 100 ft) *C= 140* *Using Hazen-Williams Equation*

	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		
Flow (gpm)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Flow (gpm)
2	2.75	7.66	1.49	1.72	0.90	0.50	0.50	0.12	0.32	0.04	0.22	0.02					2
4	5.50	27.65	2.98	6.22	1.79	1.80	1.00	0.44	0.65	0.15	0.44	0.06					4
6	8.25	58.60	4.47	13.17	2.69	3.82	1.51	0.94	0.97	0.32	0.65	0.12					6
8	11.00	99.83	5.96	22.45	3.58	6.51	2.01	1.59	1.30	0.55	0.87	0.21					8
10	13.75	150.92	7.45	33.93	4.48	9.84	2.51	2.41	1.62	0.83	1.09	0.32					10
12			8.94	47.56	5.37	13.79	3.01	3.38	1.95	1.17	1.31	0.44	0.91	0.18			12
14			10.43	63.28	6.27	18.35	3.51	4.49	2.27	1.55	1.53	0.59	1.06	0.25			14
16			11.92	81.03	7.16	23.49	4.02	5.75	2.59	1.99	1.74	0.76	1.22	0.31			16
18			13.40	100.78	8.06	29.22	4.52	7.15	2.92	2.47	1.96	0.94	1.37	0.39			18
20			14.89	122.49	8.95	35.52	5.02	8.69	3.24	3.00	2.18	1.14	1.52	0.47	0.98	0.16	20
25					11.19	53.69	6.28	13.14	4.05	4.54	2.73	1.73	1.90	0.72	1.22	0.24	25
30	4"				13.43	75.26	7.53	18.42	4.87	6.36	3.27	2.42	2.28	1.01	1.46	0.34	30
35	Vel	Loss					8.79	24.51	5.68	8.47	3.82	3.22	2.66	1.34	1.71	0.45	35
40	1.12	0.15					10.04	31.39	6.49	10.84	4.36	4.13	3.04	1.71	1.95	0.58	40
45	1.26	0.19					11.30	39.04	7.30	13.49	4.91	5.14	3.42	2.13	2.19	0.72	45
50	1.40	0.23					12.55	47.45	8.11	16.39	5.45	6.24	3.80	2.59	2.44	0.88	50
60	1.68	0.32							9.73	22.98	6.54	8.75	4.56	3.63	2.93	1.23	60
70	1.96	0.43							11.35	30.57	7.63	11.64	5.32	4.83	3.41	1.64	70
80	2.24	0.55									8.72	14.91	6.08	6.19	3.90	2.10	80
90	2.52	0.68	6"								9.81	18.54	6.84	7.70	4.39	2.62	90
100	2.80	0.83	Vel	Loss							10.91	22.53	7.60	9.36	4.88	3.18	100
120	3.36	1.16	1.48	0.16									9.12	13.11	5.85	4.46	120
140	3.92	1.54	1.73	0.21									10.64	17.45	6.83	5.93	140
160	4.48	1.97	1.98	0.27									12.16	22.34	7.80	7.59	160
180	5.04	2.45	2.22	0.33	8"										8.78	9.44	180
200	5.60	2.98	2.47	0.41	Vel	Loss									9.75	11.48	200
250	7.00	4.51	3.09	0.61	1.76	0.16									12.19	17.35	250
300	8.40	6.31	3.71	0.86	2.12	0.22											300
350	9.80	8.40	4.32	1.15	2.47	0.29	10"										350
400	11.20	10.76	4.94	1.47	2.82	0.38	Vel	Loss									400
450	12.60	13.38	5.56	1.83	3.17	0.47	2.02	0.16									450
500	14.00	16.26	6.18	2.22	3.53	0.57	2.24	0.19									500
600	16.81	22.80	7.41	3.11	4.23	0.80	2.69	0.26									600
700			8.65	4.14	4.94	1.06	3.14	0.35	12"								700
800			9.88	5.30	5.64	1.36	3.59	0.45	Vel	Loss							800
900			11.12	6.59	6.35	1.69	4.04	0.56	2.85	0.24							900
1000			12.35	8.01	7.05	2.05	4.48	0.68	3.17	0.29							1000
1500			18.53	16.98	10.58	4.34	6.73	1.44	4.75	0.62							1500
2000			24.71	28.93	14.10	7.40	8.97	2.46	6.34	1.06							2000
2500			30.88	43.74	17.63	11.18	11.21	3.72	7.92	1.60							2500
3000			37.06	61.30	21.16	15.67	13.45	5.21	9.51	2.24							3000
3500			43.24	81.56	24.68	20.85	15.69	6.93	11.09	2.98							3500
4000					28.21	26.70	17.94	8.88	12.68	3.82							4000
4500					31.73	33.21	20.18	11.04	14.26	4.75							4500
5000					35.26	40.37	22.42	13.42	15.85	5.77							5000
6000					42.31	56.58	26.91	18.81	19.02	8.08							6000
7000					49.36	75.27	31.39	25.02	22.18	10.76							7000
8000							35.87	32.04	25.35	13.77							8000
9000							40.36	39.85	28.52	17.13							9000
10000							44.84	48.44	31.69	20.82							10000

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1.07.06 VER 1.0

SCHEDULE 40 GALVANIZED FRICTION LOSS

Friction Loss Of Water (per 100 ft) *C= 100* *Using Hazen-Williams Equation*

	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		
Flow	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Flow
(gpm)	(fps)	(ft)	(fps)	(ft)	(fps)	(ft)	(fps)	(ft)	(fps)	(ft)	(fps)	(ft)	(fps)	(ft)	(fps)	(ft)	(gpm)
2	2.12	7.58	1.21	1.93	0.75	0.60	0.43	0.16	0.32	0.07	0.19	0.02					2
4	4.24	27.35	2.42	6.96	1.49	2.15	0.86	0.57	0.63	0.27	0.38	0.08					4
6	6.36	57.96	3.62	14.75	2.24	4.56	1.29	1.20	0.95	0.57	0.58	0.17					6
8	8.48	98.75	4.83	25.13	2.98	7.76	1.72	2.04	1.27	0.97	0.77	0.29					8
10	10.60	149.28	6.04	38.00	3.73	11.74	2.15	3.09	1.58	1.46	0.96	0.43					10
12			7.25	53.26	4.47	16.45	2.58	4.33	1.90	2.05	1.15	0.61	0.81	0.26			12
14			8.45	70.86	5.22	21.89	3.01	5.76	2.21	2.72	1.34	0.81	0.94	0.34			14
16			9.66	90.74	5.96	28.03	3.44	7.38	2.53	3.49	1.54	1.03	1.08	0.44			16
18			10.87	112.85	6.71	34.86	3.88	9.18	2.85	4.34	1.73	1.29	1.21	0.54			18
20			12.08	137.17	7.45	42.38	4.31	11.16	3.16	5.27	1.92	1.56	1.35	0.66	0.87	0.23	20
25					9.31	64.06	5.38	16.87	3.95	7.97	2.40	2.36	1.68	1.00	1.09	0.35	25
30	4"				11.18	89.79	6.46	23.64	4.75	11.17	2.88	3.31	2.02	1.39	1.31	0.48	30
35	Vel	Loss					7.54	31.46	5.54	14.86	3.36	4.41	2.35	1.86	1.52	0.64	35
40	1.01	0.22					8.61	40.28	6.33	19.03	3.84	5.64	2.69	2.38	1.74	0.83	40
45	1.14	0.27					9.69	50.10	7.12	23.67	4.32	7.02	3.03	2.96	1.96	1.03	45
50	1.26	0.33					10.76	60.90	7.91	28.77	4.80	8.53	3.36	3.59	2.18	1.25	50
60	1.52	0.47							9.49	40.32	5.76	11.95	4.04	5.04	2.61	1.75	60
70	1.77	0.62							11.07	53.64	6.72	15.90	4.71	6.70	3.05	2.33	70
80	2.02	0.79									7.68	20.37	5.38	8.58	3.48	2.98	80
90	2.28	0.99	6"								8.64	25.33	6.05	10.67	3.92	3.71	90
100	2.53	1.20	Vel	Loss							9.60	30.79	6.73	12.97	4.36	4.51	100
120	3.04	1.68	1.34	0.23									8.07	18.18	5.23	6.32	120
140	3.54	2.24	1.56	0.31									9.42	24.18	6.10	8.40	140
160	4.05	2.87	1.78	0.39									10.76	30.97	6.97	10.76	160
180	4.55	3.57	2.01	0.49	8"										7.84	13.39	180
200	5.06	4.34	2.23	0.59	Vel	Loss									8.71	16.27	200
250	6.32	6.56	2.79	0.89	1.61	0.23									10.89	24.60	250
300	7.59	9.19	3.34	1.25	1.93	0.33											300
350	8.85	12.23	3.90	1.67	2.25	0.44	10"										350
400	10.12	15.66	4.46	2.13	2.57	0.56	Vel	Loss									400
450	11.38	19.47	5.02	2.65	2.90	0.70	1.84	0.23									450
500	12.65	23.67	5.57	3.22	3.22	0.85	2.04	0.28									500
600	15.18	33.18	6.69	4.52	3.86	1.19	2.45	0.39									600
700			7.80	6.01	4.51	1.58	2.86	0.52	12"								700
800			8.92	7.70	5.15	2.02	3.27	0.67	Vel	Loss							800
900			10.03	9.57	5.79	2.52	3.68	0.83	2.59	0.35							900
1000			11.15	11.64	6.44	3.06	4.08	1.01	2.88	0.43							1000
1500			16.72	24.66	9.66	6.48	6.13	2.14	4.32	0.91							1500
2000			22.29	42.01	12.87	11.05	8.17	3.65	5.75	1.56							2000
2500			27.87	63.51	16.09	16.70	10.21	5.52	7.19	2.35							2500
3000			33.44	89.01	19.31	23.41	12.25	7.74	8.63	3.30							3000
3500			39.01	118.42	22.53	31.14	14.29	10.29	10.07	4.39							3500
4000					25.75	39.88	16.33	13.18	11.51	5.62							4000
4500					28.97	49.60	18.38	16.40	12.95	6.99							4500
5000					32.18	60.29	20.42	19.93	14.38	8.50							5000
6000					38.62	84.50	24.50	27.93	17.26	11.91							6000
7000					45.06	112.42	28.59	37.16	20.14	15.85							7000
8000							32.67	47.59	23.01	20.30							8000
9000							36.75	59.19	25.89	25.24							9000
10000							40.84	71.94	28.77	30.68							10000

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SDR7 POLYETHELYNE FRICTION LOSS

Friction Loss Of Water (per 100 ft) *C= 140* *Using Hazen-Williams Equation*

Flow	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"						Flow
(gpm)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	Vel (fps)	Loss (ft)	(fps)	(ft)	(fps)	(ft)	(gpm)
2	2.12	4.06	1.21	1.03	0.75	0.32	0.43	0.08	0.32	0.04	0.19	0.01					2
4	4.24	14.67	2.42	3.73	1.49	1.15	0.86	0.30	0.63	0.14	0.38	0.04					4
6	6.36	31.08	3.62	7.91	2.24	2.44	1.29	0.64	0.95	0.30	0.58	0.09					6
8	8.48	52.95	4.83	13.48	2.98	4.16	1.72	1.10	1.27	0.52	0.77	0.15					8
10	10.60	80.05	6.04	20.38	3.73	6.29	2.15	1.66	1.58	0.78	0.96	0.23					10
12			7.25	28.56	4.47	8.82	2.58	2.32	1.90	1.10	1.15	0.33					12
14			8.45	38.00	5.22	11.74	3.01	3.09	2.21	1.46	1.34	0.43					14
16			9.66	48.66	5.96	15.03	3.44	3.96	2.53	1.87	1.54	0.55					16
18			10.87	60.52	6.71	18.70	3.88	4.92	2.85	2.33	1.73	0.69					18
20			12.08	73.56	7.45	22.72	4.31	5.98	3.16	2.83	1.92	0.84					20
25					9.31	34.35	5.38	9.05	3.95	4.27	2.40	1.27					25
30					11.18	48.15	6.46	12.68	4.75	5.99	2.88	1.78					30
35							7.54	16.87	5.54	7.97	3.36	2.36					35
40							8.61	21.60	6.33	10.20	3.84	3.03					40
45							9.69	26.87	7.12	12.69	4.32	3.76					45
50							10.76	32.66	7.91	15.43	4.80	4.57					50
60									9.49	21.62	5.76	6.41					60
70									11.07	28.77	6.72	8.53					70
80											7.68	10.92					80
90											8.64	13.58					90
100											9.60	16.51					100
120																	120
140																	140
160																	160
180																	180
200																	200
250																	250
300																	300
350																	350
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1.07.06 VER 1.0

FLOW RATES OF ORIFICES OF VARIOUS SIZES

Feet of Head	Orifice Diameter in Inches										Feet of Head
	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	
1	0.048	0.193	0.435	0.774	1.209	1.741	2.370	3.095	3.917	4.836	1
2	0.068	0.274	0.616	1.094	1.710	2.462	3.351	4.377	5.540	6.839	2
3	0.084	0.335	0.754	1.340	2.094	3.015	4.104	5.361	6.785	8.376	3
4	0.097	0.387	0.870	1.548	2.418	3.482	4.739	6.190	7.834	9.672	4
5	0.108	0.433	0.973	1.730	2.703	3.893	5.299	6.921	8.759	10.813	5
6	0.118	0.474	1.066	1.895	2.961	4.264	5.804	7.581	9.595	11.846	6
7	0.128	0.512	1.152	2.047	3.199	4.606	6.269	8.189	10.364	12.795	7
8	0.137	0.547	1.231	2.188	3.420	4.924	6.702	8.754	11.079	13.678	8
9	0.145	0.580	1.306	2.321	3.627	5.223	7.109	9.285	11.751	14.508	9
10	0.153	0.612	1.376	2.447	3.823	5.505	7.493	9.787	12.387	15.293	10
11	0.160	0.642	1.444	2.566	4.010	5.774	7.859	10.265	12.992	16.039	11
12	0.168	0.670	1.508	2.680	4.188	6.031	8.209	10.721	13.569	16.752	12
13	0.174	0.697	1.569	2.790	4.359	6.277	8.544	11.159	14.123	17.436	13
14	0.181	0.724	1.628	2.895	4.524	6.514	8.866	11.580	14.656	18.094	14
15	0.187	0.749	1.686	2.997	4.682	6.743	9.177	11.987	15.171	18.730	15
16	0.193	0.774	1.741	3.095	4.836	6.964	9.478	12.380	15.668	19.344	16
17	0.199	0.798	1.795	3.190	4.985	7.178	9.770	12.761	16.151	19.939	17
18	0.205	0.821	1.847	3.283	5.129	7.386	10.053	13.131	16.619	20.517	18
19	0.211	0.843	1.897	3.373	5.270	7.589	10.329	13.491	17.074	21.079	19
20	0.216	0.865	1.946	3.460	5.407	7.786	10.597	13.841	17.518	21.627	20
21	0.222	0.886	1.994	3.546	5.540	7.978	10.859	14.183	17.950	22.161	21
22	0.227	0.907	2.041	3.629	5.671	8.166	11.114	14.517	18.373	22.683	22
23	0.232	0.928	2.087	3.711	5.798	8.349	11.364	14.843	18.786	23.192	23
24	0.237	0.948	2.132	3.791	5.923	8.529	11.609	15.162	19.190	23.691	24
25	0.242	0.967	2.176	3.869	6.045	8.705	11.848	15.475	19.586	24.180	25
26	0.247	0.986	2.219	3.945	6.165	8.877	12.083	15.781	19.973	24.659	26
27	0.251	1.005	2.262	4.021	6.282	9.046	12.313	16.082	20.354	25.128	27
28	0.256	1.024	2.303	4.094	6.397	9.212	12.539	16.377	20.727	25.589	28
29	0.260	1.042	2.344	4.167	6.511	9.375	12.761	16.667	21.094	26.042	29
30	0.265	1.060	2.384	4.238	6.622	9.536	12.979	16.952	21.455	26.488	30
31	0.269	1.077	2.423	4.308	6.731	9.693	13.193	17.232	21.810	26.925	31
32	0.274	1.094	2.462	4.377	6.839	9.848	13.405	17.508	22.159	27.356	32
33	0.278	1.111	2.500	4.445	6.945	10.001	13.612	17.779	22.502	27.780	33
34	0.282	1.128	2.538	4.512	7.050	10.151	13.817	18.047	22.840	28.198	34
35	0.286	1.144	2.575	4.578	7.152	10.300	14.019	18.310	23.174	28.610	35
36	0.290	1.161	2.611	4.643	7.254	10.446	14.218	18.570	23.503	29.016	36
37	0.294	1.177	2.647	4.707	7.354	10.590	14.414	18.826	23.827	29.416	37
38	0.298	1.192	2.683	4.770	7.453	10.732	14.607	19.079	24.147	29.811	38
39	0.302	1.208	2.718	4.832	7.550	10.872	14.798	19.328	24.462	30.200	39
40	0.306	1.223	2.753	4.894	7.646	11.011	14.987	19.574	24.774	30.585	40
41	0.310	1.239	2.787	4.954	7.741	11.147	15.173	19.818	25.082	30.965	41
42	0.313	1.254	2.821	5.014	7.835	11.283	15.357	20.058	25.386	31.340	42
43	0.317	1.268	2.854	5.074	7.928	11.416	15.539	20.295	25.686	31.711	43
44	0.321	1.283	2.887	5.132	8.019	11.548	15.718	20.530	25.983	32.078	44
45	0.324	1.298	2.920	5.190	8.110	11.679	15.896	20.762	26.277	32.440	45
46	0.328	1.312	2.952	5.248	8.200	11.808	16.071	20.991	26.567	32.799	46
47	0.332	1.326	2.984	5.305	8.288	11.935	16.245	21.218	26.854	33.154	47
48	0.335	1.340	3.015	5.361	8.376	12.062	16.417	21.443	27.139	33.504	48
49	0.339	1.354	3.047	5.416	8.463	12.187	16.587	21.665	27.420	33.852	49
50	0.342	1.368	3.078	5.471	8.549	12.310	16.756	21.885	27.698	34.195	50

Table prepared using the Formula $Q = 12.38\ d^2\ h$ where:

Q = orifice flow rate in gpm

d = orifice diameter in inches

h = head pressure at orifice

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