

PWEagle

**PVC Irrigation
& Plumbing Pipe**
The Right Pipe for Many Uses



PWEagle

Irrigation &
Plumbing
Products

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Gasketed PVC

PW Eagle's gasketed PVC pipe is a pressure-rated pipe designed specifically for irrigation. Available in diameters from 1½" to 24", it is most often used for distribution mains from which smaller lines are fed.

The gasketed bell system provides the simplest, easiest, and fastest installation available in any pipe providing a similar high quality performance. Gaskets are installed at the factory and all that is necessary to complete a water-tight, permanent connection is to lubricate the plain end and insert it into the bell in accordance with PW Eagle's installation instructions.

Once the trench and bedding are prepared, a PW Eagle gasketed pipe system can be installed at a rapid pace. The gasketed joint is designed to provide a positive leak-free seal under a wide variety of temperature and pressure conditions, ranging from vacuum to the rated pressure.

PIP Pipe Standards

PVC Material: ASTM D 1784, cell class 12454

Pipe Design: ASTM D 2241 (15" – 24" except SDR 64); SCS 430 DD (6" – 15" SDR 64); ASAE S376.1 (except SDR 64, SDR 26, and 6" – 15" SDR 32.5)

Gasket: ASTM F 477

End finish: integral gasketed bell one end (gasket factory installed)

Length: 20-foot laying length

IPS Pipe Standards

PVC Material: ASTM D 1784, cell class 12454

Pipe Design: ASTM D 2241

Gasket: ASTM F 477

End finish: integral gasketed bell one end (gasket factory installed)

Length: 20-foot laying length

Certification: All IPS pipe is certified to ANSI/NSF Standard 61 for potability.

Design Note:

Variables such as water velocity in the pipe, air entrapment, frequent pump cycling, water hammer or excessive operating pressures can have an adverse effect on any PVC pipe's life expectancy. If you have any questions about design or the effects of these factors, contact our Technical Department at (800) 347-0200.

Nominal Pipe Size	Category	SDR	Average Outside Diameter (inches)	Approx. Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approx. Weight (lbs/100')
1½	160 IPS	26	1.900	1.74	0.073	28
	200 IPS	21	1.900	1.70	0.090	44
2	160 IPS	26	2.375	2.18	0.091	44
	200 IPS	21	2.375	2.13	0.113	54
2½	160 IPS	26	2.875	2.64	0.110	64
	200 IPS	21	2.875	2.58	0.137	79
3	125 IPS	32.5	3.500	3.26	0.108	77
	160 IPS	26	3.500	3.21	0.135	96
	200 IPS	21	3.500	3.14	0.167	120
4	100 IPS	41	4.500	4.26	0.110	100
	125 IPS	32.5	4.500	4.20	0.138	130
	160 IPS	26	4.500	4.13	0.173	160
	200 IPS	21	4.500	4.04	0.214	190
5	100 IPS	41	5.563	5.27	0.136	160
	125 IPS	32.5	5.563	5.19	0.171	200
	160 IPS	26	5.563	5.10	0.214	240
6	63 IPS	64	6.625	6.40	0.104	140
	100 IPS	41	6.625	6.27	0.162	220
	125 IPS	32.5	6.625	6.18	0.204	280
	160 IPS	26	6.625	6.07	0.255	340
	200 IPS	21	6.625	5.94	0.316	410
	80 PIP	51	6.140	5.88	0.120	150
	100 PIP	41	6.140	5.81	0.150	190
	125 PIP	32.5	6.140	5.73	0.189	240
8	63 IPS	64	8.625	8.33	0.135	240
	100 IPS	41	8.625	8.17	0.210	380
	125 IPS	32.5	8.625	8.05	0.265	470
	160 IPS	26	8.625	7.91	0.332	580
	200 IPS	21	8.625	7.74	0.410	720
	80 PIP	51	8.160	7.81	0.160	270
	100 PIP	41	8.160	7.73	0.199	340
	125 PIP	32.5	8.160	7.62	0.251	420

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Nominal Pipe Size	Category	SDR	Average Outside Diameter (inches)	Approx. Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approx. Weight (lbs/100')
10	63 IPS	64	10.750	10.39	0.168	380
	100 IPS	41	10.750	10.18	0.262	590
	125 IPS	32.5	10.750	10.04	0.331	740
	160 IPS	26	10.750	9.86	0.413	910
	200 IPS	21	10.750	9.65	0.511	1120
	80 PIP	51	10.200	9.77	0.200	430
	100 PIP	41	10.200	9.66	0.249	530
	125 PIP	32.5	10.200	9.52	0.314	660
12	63 IPS	64	12.750	12.32	0.199	530
	100 IPS	41	12.750	12.08	0.311	830
	125 IPS	32.5	12.750	11.91	0.392	1040
	160 IPS	26	12.750	11.70	0.490	1280
	200 IPS	21	12.750	11.45	0.606	1570
	80 PIP	51	12.240	11.72	0.240	610
	100 PIP	41	12.240	11.60	0.299	760
	125 PIP	32.5	12.240	11.43	0.377	950
15	63 PIP	64	15.300	14.78	0.239	770
	80 PIP	51	15.300	14.65	0.300	960
	100 PIP	41	15.300	14.50	0.373	1190
	125 PIP	32.5	15.300	14.29	0.471	1490
	160 PIP	26	15.300	14.04	0.588	1780
18	63 PIP	64	18.701	18.07	0.292	1160
	80 PIP	51	18.701	17.91	0.367	1450
	100 PIP	41	18.701	17.72	0.456	1790
	125 PIP	32.5	18.701	17.47	0.575	2240
21	80 PIP	51	22.047	21.12	0.432	2020
	100 PIP	41	22.047	20.89	0.538	2500
	125 PIP	32.5	22.047	20.59	0.678	3130
24	80 PIP	51	24.803	23.76	0.486	2430
	100 PIP	41	24.803	23.50	0.605	3170
	125 PIP	32.5	24.803	23.17	0.763	3980

PW Eagle's solvent-weld PVC pipe is manufactured in diameters from ½" to 20" in a wide range of pressure ratings. It provides the most economy available in high performance PVC irrigation systems.

Our pipe can be easily tailored on the job with ordinary hand tools. This allows you to cut it at any point to make connections or install sprinklers. The 20-foot lengths reduce the number of joints required as well as the installation time.

PW Eagle's solvent weld bell joints are precision manufactured so that a proper installation produces a pressure-tight, non-leak, permanently sealed joint.

100-Foot Head Pipe

Standards

PVC Material: ASTM D 1784, cell class 12454

Pipe Design: ASAE S376.1

End finish: integral solvent-cement bell one end

Length

All sizes: 20-foot overall length

12" and 15" sizes: 40-foot overall length

OD type

6" – 15" sizes: PIP OD

18" and 20" sizes: IP OD

Freight: FOB California; add freight elsewhere

IPS Pipe

Standards

PVC Material: ASTM D 1784, cell class 12454

Pipe Design: ASTM D 2241 (SDR pipe);

ASTM D 1785 (Sch 40 and 80 pipe)

End finish

Sch 80: plain-end only

All other: integral solvent-cement bell one end

Length

Sch 80: 20-foot overall length

All other: 20-foot laying length

Certification: All IPS pipe is certified to ANSI/NSF Standard 61 for potability.



Solvent Weld PVC

Nominal Pipe Size	Category	SDR	Average Outside Diameter (inches)	Approx. Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approx. Weight (lbs/100')
½	315 IPS	13.5	0.840	0.70	0.062	10
	SCH 40/PR 600	NA	0.840	0.60	0.109	16
	SCH 80/PR 850	NA	0.840	0.52	0.147	21
¾	200 IPS	21	1.050	0.92	0.060	12
	SCH 40/PR 480	NA	1.050	0.80	0.113	22
	SCH 80/PR 690	NA	1.050	0.72	0.154	29
1	200 IPS	21	1.315	1.18	0.063	16
	SCH 40/PR 450	NA	1.315	1.03	0.133	32
	SCH 80/PR 630	NA	1.315	0.93	0.179	42
1¼	125 IPS	32.5	1.660	1.53	0.060	20
	160 IPS	26	1.660	1.52	0.064	21
	200 IPS	21	1.660	1.49	0.079	26
	SCH 40/PR 370	NA	1.660	1.36	0.140	44
	SCH 80/PR 520	NA	1.660	1.25	0.191	58
1½	125 IPS	32.5	1.900	1.77	0.060	23
	160 IPS	26	1.900	1.74	0.073	27
	200 IPS	21	1.900	1.70	0.090	34
	SCH 40/PR 330	NA	1.900	1.59	0.145	52
	SCH 80/PR 470	NA	1.900	1.47	0.200	70
2	125 IPS	32.5	2.375	2.21	0.073	35
	160 IPS	26	2.375	2.18	0.091	43
	200 IPS	21	2.375	2.13	0.113	53
	315 IPS	13.5	2.375	1.99	0.176	80
	SCH 40/PR 280	NA	2.375	2.04	0.154	70
	SCH 80/PR 400	NA	2.375	1.90	0.218	97
2½	125 IPS	32.5	2.875	2.68	0.088	51
	160 IPS	26	2.875	2.63	0.110	63
	200 IPS	21	2.875	2.58	0.137	77
	315 IPS	13.5	2.875	2.41	0.213	120
	SCH 40/PR 300	NA	2.875	2.44	0.203	110
	SCH 80/PR 420	NA	2.875	2.28	0.276	150
3	100 IPS	41	3.500	3.31	0.085	60
	125 IPS	32.5	3.500	3.26	0.108	75
	160 IPS	26	3.500	3.21	0.135	94
	200 IPS	21	3.500	3.14	0.167	110
	315 IPS	13.5	3.500	2.94	0.259	170
	SCH 40/PR 260	NA	3.500	3.03	0.216	150
	SCH 80/PR 370	NA	3.500	2.85	0.300	200
4	63 IPS	64	4.500	4.35	0.070	64
	100 IPS	41	4.500	4.26	0.110	99
	125 IPS	32.5	4.500	4.20	0.138	120
	160 IPS	26	4.500	4.13	0.173	150
	200 IPS	21	4.500	4.04	0.214	190
	315 IPS	13.5	4.500	3.78	0.333	290
	SCH 40/PR 220	NA	4.500	3.99	0.237	210
	SCH 80/PR 320	NA	4.500	3.77	0.337	290

Nominal Pipe Size	Category	SDR	Average Outside Diameter (inches)	Approx. Inside Diameter (inches)	Minimum Wall Thickness (inches)	Approx. Weight (lbs/100')
5	63 IPS	64	5.563	5.37	0.087	98
	100 IPS	41	5.563	5.27	0.136	150
	125 IPS	32.5	5.563	5.19	0.171	190
	160 IPS	26	5.563	5.10	0.214	240
	200 IPS	21	5.563	4.99	0.265	300
	SCH 40/PR 190	NA	5.563	5.01	0.258	290
	SCH 80/PR 290	NA	5.563	4.76	0.375	400
6	63 IPS	64	6.625	6.40	0.087	140
	100 IPS	41	6.625	6.27	0.162	220
	125 IPS	32.5	6.625	6.18	0.204	270
	160 IPS	26	6.625	6.07	0.255	330
	200 IPS	21	6.625	5.94	0.316	410
	SCH 40/PR 180	NA	6.625	6.02	0.280	370
	SCH 80/PR 280	NA	6.625	5.70	0.432	550
8	63 IPS	64	8.625	8.33	0.135	240
	100 IPS	41	8.625	8.17	0.210	360
	125 IPS	32.5	8.625	8.05	0.265	460
	200 IPS	21	8.625	7.74	0.410	690
	SCH40/PR 160	NA/26	8.625	7.91	0.332	570
	SCH80/PR 250	NA	8.625	7.55	0.500	840
	100 FT HD 20'	93.5	8.160	7.97	0.087	140
10	100 IPS	41	10.750	10.18	0.262	570
	125 IPS	32.5	10.750	10.04	0.331	710
	160 IPS	26	10.750	9.86	0.413	900
	200 IPS	21	10.750	9.65	0.511	1100
	SCH 40/PR 140	NA	10.750	9.96	0.365	780
	SCH 80/PR 230	NA	10.750	9.48	0.593	1250
	100 FT HD 20'	93.5	10.200	9.96	0.109	230
12	63 IPS	64	12.750	12.32	0.199	510
	100 IPS	41	12.750	12.08	0.311	800
	125 IPS	32.5	12.750	11.91	0.392	1000
	160 IPS	26	12.750	11.70	0.490	1250
	200 IPS	21	12.750	11.45	0.606	1530
	SCH 40/PR 130	NA	12.750	11.88	0.406	1030
	SCH 80/PR 230	NA	12.750	11.28	0.687	1720
	100 FT HD 20'	93.5	12.240	11.96	0.131	330
	100 FT HD 40'	93.5	12.240	11.96	0.131	330
15	100 FT HD 20'	93.5	15.300	14.94	0.164	510
	100 FT HD 40'	93.5	15.300	14.94	0.164	510
	100 PIP	41	15.300	14.50	0.373	1150
18	100 FT HD 20'	93.5	18.360	17.93	0.197	740
20	100 FT HD 20'	93.5	20.400	19.93	0.219	910

Turf or Ag, PW Eagle offers more ways to move water wisely...


PW Eagle gives you the widest range of PVC types and sizes available in North America. You can also count on PW Eagle to meet your highest quality standards. In addition to consistently meeting standards requirements in outside agency inspections, we run daily in-plant tests for impact, burst pressure, flattening and dimensions—all in strict accordance with ASTM specifications.

...and we move more pipe, too.

With eleven manufacturing facilities across the nation, PW Eagle has the production capacity to meet nearly every need, on time.

Save time, money and resources with PW Eagle's PVC products.

- cuts easily
- fast installation
- fewer joints
- flexible
- high strength-to-weight ratio
- light weight
- low maintenance
- no deterioration
- no evaporation loss
- low pumping cost
- resists cracking and rupture
- non-corrosive



WARNING: Do not use PVC pipe for pressurized air systems. Injury or death may result due to the catastrophic nature of pipe failure should failure occur. Rapid expansion of compressed air could propel shards of plastic throughout the area.

WARNING: PVC pipe is intended for conveyance of water. Damage to pipe may occur from the conveyance of chemicals (including, but not limited to, herbicides and pesticides), particularly at high concentrations or when pipes are not adequately flushed between applications.

PW Eagle combines three decades of success with tomorrow's technology

PW Eagle manufactures PVC pipe for a variety of applications servicing the potable water, well casing, sewer, agriculture, turf, plumbing, communications and electrical markets. PW Eagle products are available from distributors throughout the United States and parts of Western Canada. Our facilities in Washington, Oregon, California, Utah, Nebraska, Texas, Missouri and West Virginia assure on-time delivery.

PW Eagle Facilities Are Located In:

- ① Tacoma, Washington
- ② Sunnyside, Washington
- ③  Eugene, Oregon (and Corporate Headquarters)
- ④ Cameron Park, California
- ⑤ Visalia, California
- ⑥ Perris, California
- ⑦ West Jordan, Utah
- ⑧ Hastings, Nebraska
- ⑨ Conroe, Texas
- ⑩ Columbia, Missouri
- ⑪ Buckhannon, West Virginia



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