



AQUALOC[®] PVC SERIES PIPE

Providing exceptional performance for a
diverse range of applications



AQUALOC[®]

A long-lasting, proven product you can depend on

At NEXT Polymers, we've been producing quality PVC products for the North American market for over 40 years. We are committed to providing superior products backed, as always, by our record of service excellence and technical support. Our **AQUALOC PVC Series Pipe** reflects this commitment by delivering safety, longevity and superb performance for the most demanding applications.



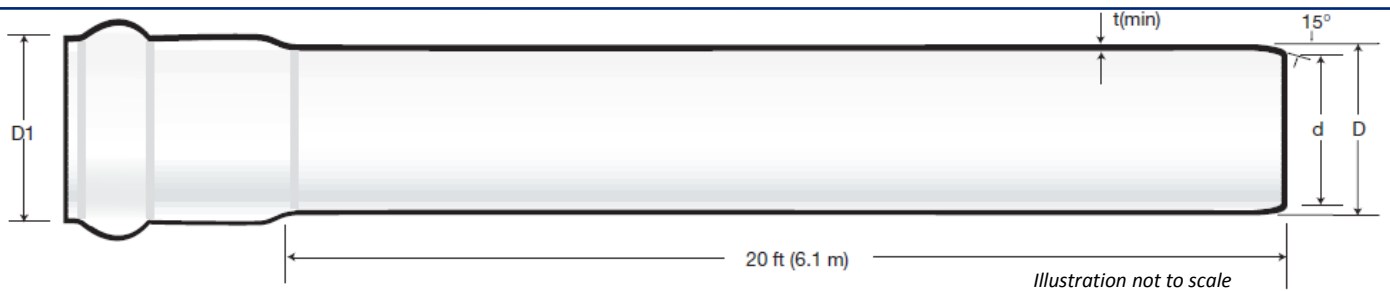
AQUALOC PVC Series Pipe is manufactured to NEXT Polymers' unique specifications and strict industry standards to ensure that it delivers the high level of performance our customers have come to expect from us.

This pipe can perform under extreme pressures without leaking or corroding. It's lightweight and easy to handle, making installation more cost effective compared to other piping materials.

All of these benefits coupled with AQUALOC's performance and durability make it a cost effective solution to demanding applications including:

- Water transmission lines
- Potable water supply lines
- Sewage force mains
- Golf course irrigation
- Agricultural irrigation
- Well casing
- Industrial process piping
- Landscaping

GASKETED BELL PIPE



Series 200 (SDR 21) – White

Size		D		d		D1		t(min)	
in	mm	in	mm	in	mm	in	mm	in	mm
1 ½	40	1.90	48.30	1.71	43.42	2.25	57.15	0.090	2.28
2	50	2.38	60.40	2.14	54.29	3.00	76.20	0.113	2.86
2 ½	65	2.87	73.00	2.58	65.62	3.50	88.90	0.137	3.48
3	75	3.50	88.90	3.15	79.91	4.50	114.30	0.167	4.24
4	100	4.50	114.30	4.05	102.77	5.50	139.70	0.214	5.44
6	150	6.63	168.30	5.96	151.30	8.00	203.20	0.316	8.02
8	200	8.62	219.10	7.76	197.00	10.25	260.35	0.409	10.40
10	250	10.75	273.10	9.67	245.49	13.25	336.55	0.512	13.00
12	300	12.75	323.90	11.47	291.25	15.50	393.70	0.606	15.40

Series 160 (SDR 26) – White

Size		D		d		D1		t(min)	
in	mm	in	mm	in	mm	in	mm	in	mm
1 ½	40	1.90	48.30	1.73	43.97	2.25	57.15	0.080	2.02
2	50	2.38	60.40	2.18	55.47	3.00	76.20	0.091	2.30
2 ½	65	2.87	73.00	2.64	67.11	3.50	88.90	0.109	2.78
3	75	3.50	88.90	3.22	81.65	4.50	114.30	0.135	3.42
4	100	4.50	114.30	4.13	105.01	5.50	139.70	0.172	4.38
6	150	6.63	168.30	6.09	154.56	8.00	203.20	0.255	6.48
8	200	8.62	219.10	7.92	201.20	10.25	260.35	0.331	8.42
10	250	10.75	273.10	9.87	250.79	13.00	330.20	0.413	10.50
12	300	12.75	323.90	11.72	297.61	15.25	387.35	0.488	12.40

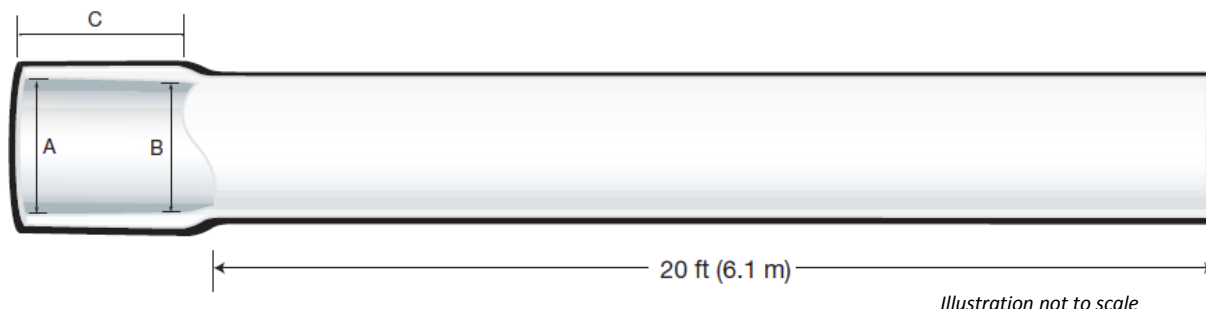
Series 125 (SDR 32.5) - White

Size		D		d		D1		t(min)	
in	mm	in	mm	in	mm	in	mm	in	mm
3	75	3.50	88.90	3.27	83.09	4.25	107.95	0.108	2.74
4	100	4.50	114.30	4.21	106.88	5.00	139.70	0.138	3.50
6	150	6.63	168.30	6.19	157.32	8.00	203.20	0.204	5.18
8	200	8.62	219.10	8.06	204.80	10.00	254.00	0.265	6.72
10	250	10.75	273.10	10.05	255.24	12.75	323.85	0.331	8.40
12	300	12.75	323.90	11.92	302.78	15.00	381.00	0.392	9.96

Series 100 (SDR 41) - White

Size		D		d		D1		t(min)	
in	mm	in	mm	in	mm	in	mm	in	mm
4	100	4.50	114.30	4.28	108.41	4.75	120.65	0.109	2.78
6	150	6.63	168.30	6.28	159.57	7.75	196.85	0.162	4.12
8	200	8.62	219.10	8.18	207.77	10.00	254.00	0.209	5.32
10	250	10.75	273.10	10.19	258.93	12.50	317.50	0.262	6.66
12	300	12.75	323.90	12.09	307.15	14.75	374.65	0.311	7.90

SOLVENT BELL PIPE



Series 200 (SDR 21) and Series 160 (SDR 26) - White

Size		A		B		C	
in	mm	in	mm	in	mm	in	mm
1 ½	40	1.91	48.56	1.89	48.11	2.00	50.80
2	50	2.39	60.63	2.36	60.02	2.25	57.15
2 ½	65	2.89	73.38	2.86	72.67	2.50	63.50
3	75	3.52	89.31	3.48	88.49	3.25	82.55

Solvent bell dimensions

SDR 21 and SDR 26 are available with solvent bell ends in sizes 1 ½" – 3". The dimensions of the solvent bells are listed above and the wall dimensions remain the same as the gasketed bells listed on the previous page. Solvent bell dimensions meet or exceed the requirements of CSA B 137.3 and ASTM D 2241.

Short form specification

AQUALOC PVC Series Pipe shall conform to ASTM D 2241 standard and be manufactured and certified to CSA B 137.3 and NSF 14 and 61 standards.

All AQUALOC PVC Series Pipe is manufactured from PVC compounds conforming to ASTM D 1784. The sealing gaskets are locked into the bell during the manufacturing process.

Only NEXT lubricant should be used when assembling AQUALOC gasketed series pipe.

Minimum impact requirements for AQUALOC PVC Series Pipe

Size		CSA B 137.3 @ 0°C (32°F)		ASTM D 2241 @ 23°C (73°F)	
in	mm	ft-lbs	Joules	ft-lbs	Joules
1 ½	40	52	70.0	30	40.7
2	50	70	95.0	30	40.7
2 ½	65	81	110.0	40	54.2
3	75	89	120.0	60	81.3
4	100	100	135.0	90	122.0
6	150	118	160.0	120	162.7
8	200	129	175.0	160	216.9
10	250	140	190.0	160	216.9
12	300	151	205.0	160	216.9

Installation

AQUALOC pipe shall be installed in strict accordance with the NEXT Polymers *Municipal PVC Pipe Installation Guide* or *Industrial Technical Manual*, depending on the application. Experienced service and technical support is available at NEXT Polymers office. If you have any questions concerning pipe installation, a NEXT representative will be glad to assist you.

SUPERIOR PERFORMANCE SYSTEM

Corrosion resistance

PVC pipe is immune to all types of metallic corrosion, therefore no coating, cathodic protection or lining is required. This immunity gives PVC the significant advantages of lower operating costs and longer system life compared with other piping materials.

Leakproof design

NEXT Polymers' locked-in gasket system eliminates the threat of gasket roll. Each joint can withstand many times its pressure rating, even under deflected conditions specified in standard tests, without any leakage. This virtually eliminates both the health risks associated with infiltration and the high cost of exfiltration. AQUALOC PVC Series Pipe is also available with solvent bell ends.

Flexibility

PVC is tough, yet flexible enough to allow the pipe to move with the surrounding soil. This means fewer repairs due to stress cracks.

Strength

NEXT Polymers' PVC Series Pipe, SDR 21, 26, 32.5 and 41, have a safety factor of 2-to-1 for long-term hydrostatic pressure.

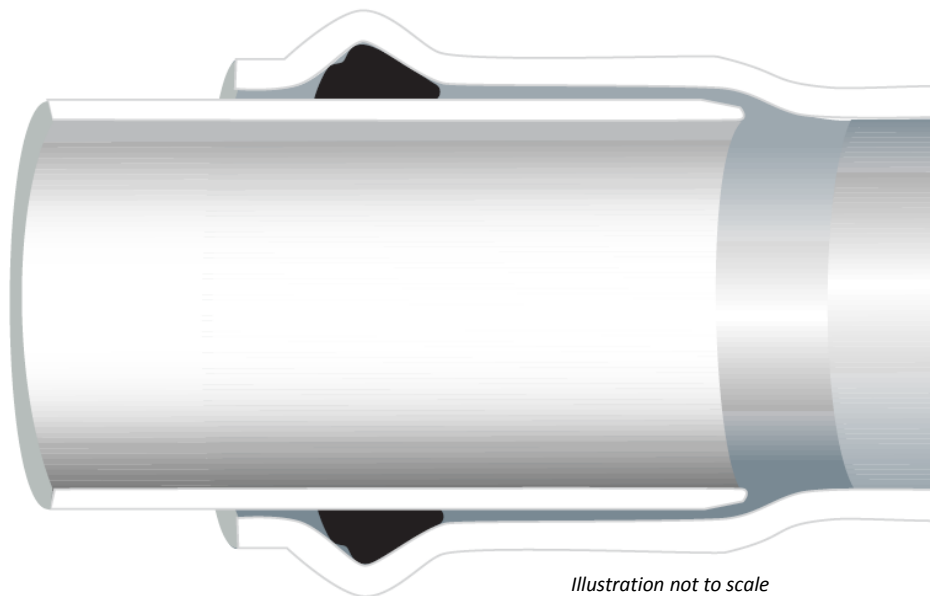


Illustration not to scale

Reduced maintenance and operation costs

Because PVC's smooth bore resists tuberculation, scaling and abrasion, AQUALOC retains its flow capacity longer than other piping materials. It never needs cleaning, so pumping is not impeded and costs are kept to a minimum. The Hazen-Williams flow coefficient (C-factor), which has been set conservatively at 150, is easily sustainable.

Ease of installation and handling

With its high strength-to-weight ratio, AQUALOC combines superior performance with low installation and handling costs.

When compared with other materials, PVC pipe can be handled with smaller equipment and can be installed faster, some sizes can even be lifted by hand. See the NEXT Polymers *Municipal PVC Pipe Installation Guide* or *Industrial Technical Manual* for complete installation instructions.

Compatibility

SDR 21, 26, 32.5 and 41 Series Pipes in the IPS O.D. may be used with the standard M.J. fittings with the use of a transition gasket.

Also, a wide range of PVC push-on fittings are available for IPS pipe.

COMPLETE QUALITY INSURANCE



Impact

In accordance with CSA B 137.3, AQUALOC will not split or crack during impact tests performed at 0°C (32°F).

Flattening

AQUALOC can withstand a compression of 95% of its original O.D. without signs of splitting or breaking.

Extrusion quality

Average outside diameter, out-of-roundness and wall thickness are measured hourly to ensure extrusion quality conforms to all standards.



Pressure test

Products	Gasketed joints psi (kPa)
SDR 21 – Series 200	640 (4410)
SDR 26 – Series 160	512 (3530)
SDR 32.5 – Series 125	406 (2800)
SDR 41 – Series 100	319 (2200)

Materials

The PVC compound meets all requirements of cell classification 12454-B according to ASTM D 1784.

Fusion

AQUALOC shows no visible sign of flaking or cracking when immersed in anhydrous acetone for 20 minutes.

Elastomeric seals

Gaskets used for joining PVC Series Pipe shall conform to CSA B 137.3 and ASTM F 477 standards.

Standards

- Canadian Standards Association - CSA B 137.3 and B 137.0
- National Sanitation Foundation - NSF 61 and NSF 14
- American Standards and Testing Methods - ASTM D 1784, D 3139, D 2241 and F 477



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