

# SOLVENT WELD SEWER & DRAIN PIPING SYSTEMS

3" - 6" (75mm - 150mm)

## PVC Solvent Weld

IPEX offers an engineered integral PVC sewer and drainage system. PVC solid sewer pipe is used for the collection of domestic waste and storm water. PVC perforated sewer pipe is used for septic fields and foundation drainage. The solvent weld assembly method offers tight joints, eliminating infiltration, exfiltration and root infestation. A complete line of solvent weld sewer fittings is available for use with our pipe. IPEX PVC solvent weld pipe and fittings are available in nominal sizes from 3" to 6" (75mm to 150mm).

### ADVANTAGES

- 1 Costs Less to Operate**

A plastic sewer system costs less to operate and maintain because it has greater flow capacity per given size and fewer joints. The pipe is flexible enough to conform to shifts and setting caused by unstable soil conditions or traffic without cracking, breaking or opening of the joints.
- 2 Greater Hydraulic Efficiency**

PVC has the smoothest flow surface of any piping material today resulting in a Manning flow coefficient, N of .009. As a result, the pipe will not be susceptible to blockages and will maintain a high flow capacity over the life of the pipeline. The BDS piping will outperform corrugated interior tubing products in flow capacity and structural performance, especially in perimeter drain applications.
- 3 Life Cycle**

The economic life cycle of a PVC sewer system is projected at more than 50 years.

### APPLICATIONS

- Building sanitary or storm drain lines
- Foundation perimeter drains
- Septic field distribution piping

### STANDARDS



BDS sewer pipe is available in Standard Spec or third-party certified to CSA B182.1 or BNQ 3624-050 and conforms to ASTM.

BDS fittings, made to SDR35 wall, are third party certified to CSA B182.2 and BNQ 3624-130 and conform to ASTM D2729.

### DID YOU KNOW?

No other pipe approaches BDS plastic pipe in terms of low weight per foot ratio to strength. The light-weight section reduces manpower needs, reduces equipment handling cost, and freight cost.



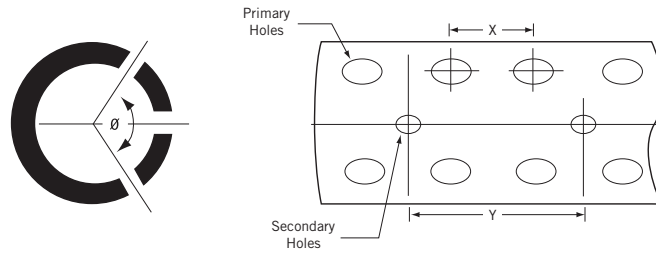
## DIMENSIONS

IPEX BDS Solid Wall Sewer Pipe – Dimensions									
Nominal Pipe Size		Average Outside Diameter		Standards	Minimum Wall Thickness		Minimum Stiffness		
inches	mm	inches	mm		inches	mm	psi	kpa	
3	75	3.2	82.5	CSA B182.1 - SDR35	.093	2.36	46	320	
4	100	4.2	107.0	CSA B182.1 - SDR35	.120	3.06	46	320	
6	150	6.3	159.4	CSA B182.1 - SDR35	.179	4.55	46	320	
3	75	3.2	82.5	CSA B182.1 - Western Canada	.093	2.36	46	320	
4	100	4.2	107.0	CSA B182.1 - Western Canada	.115	2.92	46	320	
6	150	6.3	159.4	CSA B182.1 - Western Canada	.171	4.35	46	320	
3	75	3.2	82.5	CSA B182.1-SDR38 (Nova Scotia Spec)	.093	2.36	40	275	
4	100	4.2	107.0	CSA B182.1-SDR38 (Nova Scotia Spec)	.114	2.90	40	275	
6	150	6.3	159.4	CSA B182.1-SDR38 (Nova Scotia Spec)	.165	4.19	40	275	
3	75	3.2	82.5	ASTM D2729	.070	1.78	19	131	
4	100	4.2	107.0	ASTM D2729	.075	1.90	11	76	
6	150	6.3	159.4	ASTM D2729	.100	2.54	8	55	
3	75	3.2	82.5	IPEX Standard	.070	1.78	19	131	
4	100	4.2	107.0	IPEX Standard	.075	1.91	11	76	
6	150	6.3	159.4	IPEX Standard	.123	3.12	14	96	

IPEX Perforated Sewer Pipe – Dimensions									
Nominal Pipe Size		Average Outside Diameter		Standards	Minimum Wall Thickness		Perforation* Configuratio	Minimum Stiffness	
inches	mm	inches	mm		inches	mm		psi	kpa
3	75	3.3	82.5	CSA B182.1 Eastern Canada	.085	2.16	A	29	200
4	100	4.2	107.0	CSA B182.1 Eastern Canada	.093	2.36	A	29	200
6	150	6.3	159.4	CSA B182.1 Eastern Canada	.130	3.30	A	29	200
3	75	3.3	82.5	CSA B182.1 Western Canada	.079	2.02	B	29	200
4	100	4.2	107.0	CSA B182.1 Western Canada	.088	2.24	B	29	200
6	150	6.3	159.4	CSA B182.1 Western Canada	.114	2.90	B	29	200
4	100	4.2	107.0	CSA B182.1 Nova Scotia Spec	.104	2.63	C	29	200
3	75	3.3	82.5	BNQ 3624-050	.085	2.15	D	29	200
4	100	4.2	107.0	BNQ 3624-050	.143	3.63	D	29	200
6	150	6.3	159.4	BNQ 3624-050	.139	3.52	D	29	200
3	75	3.3	82.5	ASTM D2729	.070	1.78	E	19	131
4	100	4.2	107.0	ASTM D2729	.075	1.90	E	11	76
6	150	6.3	159.4	ASTM D2729	.100	2.54	E	8	55
3	75	3.3	82.5	IPEX Standard	.070	1.78	F	19	131
4	100	4.2	107.0	IPEX Standard	.075	1.91	F	11	76
6	150	6.3	159.4	IPEX Standard	.123	3.12	F	14	96

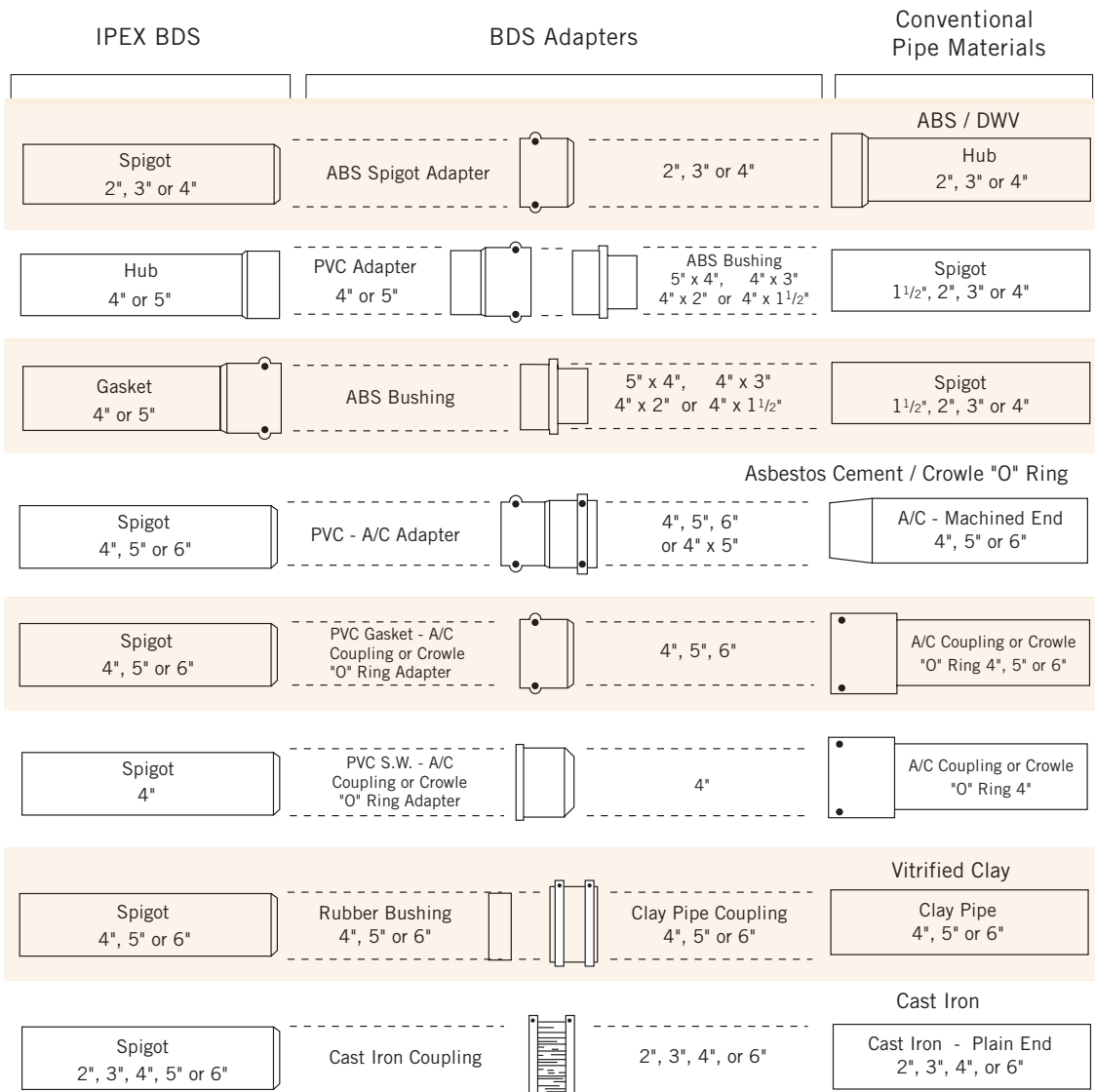
\*See table on following page

PERFORATED PIPE HOLE DIMENSIONS





Configuration Type	Primary Hole Size		Secondary Hole Size		Dimension X		Dimension Y		Angle $\theta$ degree
	inches	mm	inches	mm	inches	mm	inches	mm	
A	.63	16	.51	13	5.00	127	28.8	732	120
B	.63	16	none	none	5.00	127	n/a	n/a	120
C	.63	16	.51	13	5.00	127	138.8	3525	120
D	.51	13	.35	9	5.00	127	60.0	1524	120
E	.51	13	.39	10	5.00	127	30.0	762	120
F	.63	16	.51	13	4.65	118	30.0	763	120


ADAPTER CHART TO CONVENTIONAL MATERIALS





## PRODUCT SELECTION CHART


	Dimension		Product Code
	inches	mm	
<b>45° Elbow</b> (1/8 Bend) H x H			
	2	50	040500
	3	75	040502
	4	100	040504
	6	150	040506
	8	200	040508
	10	250	040407


	Dimension		Product Code
	inches	mm	
<b>45° Elbow</b> (1/8 Bend) Sp x H			
	2	50	040400
	3	75	040402
	4	100	040404
	6	150	040406
	8	200	040408

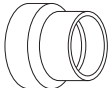
	Dimension		Product Code
	inches	mm	
<b>22-1/2° Elbow</b> (1/16 Bend) H x H			
	3	75	040963
	4	100	040964
	6	150	040969


	Dimension		Product Code
	inches	mm	
<b>22-1/2° Elbow</b> (1/16 Bend) Sp x H			
	4	100	040864
	6	150	040866


	Dimension		Product Code
	inches	mm	
<b>P Trap</b> H x H			
	2	50	040978
	3	75	040979
	4	100	040980

	Dimension		Product Code
	inches	mm	
<b>Coupling</b> with Pipe Stop H x H			
	2	50	040600
	3	75	040602
	4	100	040604
	6	150	040606
	8	200	040631


	Dimension		Product Code
	inches	mm	
<b>Repair Coupling</b> without Pipe Stop H x H			
	4	100	040624
	6	150	040626

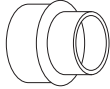
	Dimension		Product Code
	inches	mm	
<b>Reducer Coupling</b> with Pipe Stop H x H			
	4 x 2	100 x 50	040656
	4 x 3	100 x 75	040654
	6 x 4	150 x 100	040661


	Dimension		Product Code
	inches	mm	
<b>Cap</b> H			
	3	75	040986
	4	100	040959
	6	150	040988
	8	200	040990

	Dimension		Product Code
	inches	mm	
<b>Cleanout Plug</b> MPT			
	3	75	040923
	4	100	040924
	6	150	040926
	8	200	040927
	12	300	040929

	Dimension		Product Code
	inches	mm	
<b>Closet Flange</b> H			
	4	100	040965

	Dimension		Product Code
	inches	mm	
<b>Reducer Bushing</b> Sp x H			
	3 x 2	75 x 50	040930
	4 x 3	100 x 75	040933
	6 x 4	150 x 100	040896

	Dimension		Product Code
	inches	mm	
<b>Extended Bushing</b> Sp x H			
	5 x 4	125 x 100	040994
	6 x 4	150 x 100	040939
	8 x 4	200 x 100	040897
	8 x 6	200 x 150	040940

	Dimension		Product Code
	inches	mm	
<b>Reducer Bushing</b> S/D to ABS/DWV Sp x H			
	3 x 1-1/2	75 x 38	040932
	3 x 2	75 x 50	040341
	4 x 1-1/2	100 x 38	040415
	4 x 2	100 x 50	040935