

# 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.



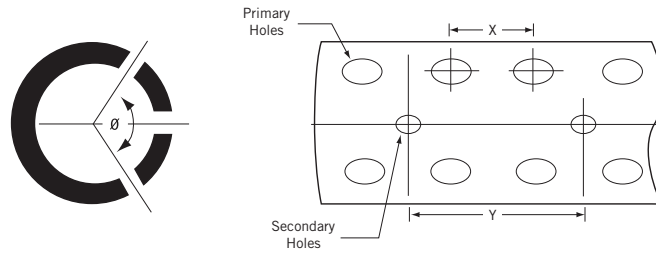
## DIMENSIONS

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

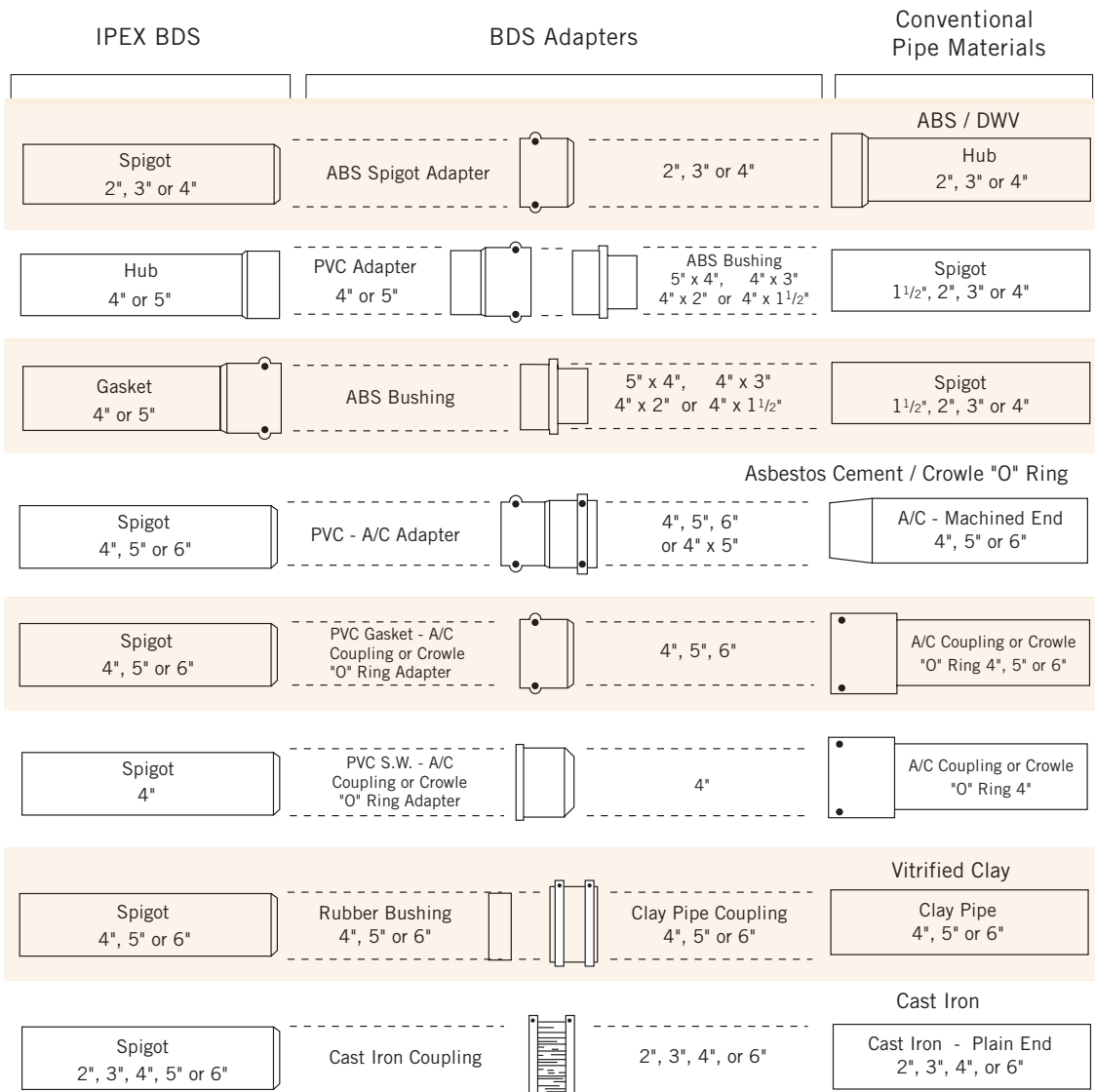
\*See table on following page

PERFORATED PIPE HOLE DIMENSIONS

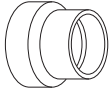



Configuration Type	Primary Hole Size		Secondary Hole Size		Dimension X		Dimension Y		Angle $\theta$ degree
	inches	mm	inches	mm	inches	mm	inches	mm	
A	.63	16	.51	13	5.00	127	28.8	732	120
B	.63	16	none	none	5.00	127	n/a	n/a	120
C	.63	16	.51	13	5.00	127	138.8	3525	120
D	.51	13	.35	9	5.00	127	60.0	1524	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>Reducer Coupling</b> S/D to ABS/DWV H x H			
	4 x 3	100 x 75	040655
	4 x 4	100 x 100	040725
	6 x 4	150 x 100	040727
	6 x 6	150 x 150	040756


	Dimension		Product Code
	inches	mm	
<b>Adapter Bushing</b> S/D to ABS/DWV Sp x H			
	4 x 3	100 x 75	040934
	5 x 4	125 x 100	040895
	6 x 4	150 x 100	040941


	Dimension		Product Code
	inches	mm	
<b>Adapter Bushing</b> S/D to Female IPS Sp x FIP Thread			
	4 x 1-1/2	100 x 40	040416

	Dimension		Product Code
	inches	mm	
<b>Flush Plug</b> MPT			
	4	100	040992


	Dimension		Product Code
	inches	mm	
<b>Plugs / Covers</b>			
	6	150	040024
	8	200	040025
	10	250	040026


	Dimension		Product Code
	inches	mm	
<b>Floor Drain Grate</b> Sp			
	3	75	040811
	4	100	040911
	6	150	040912


	Dimension		Product Code
	inches	mm	
<b>Floor Grate</b> (pp) Sp			
	3	75	040032
	4	100	040033
	3	75	040034
	4	100	040035


	Dimension		Product Code
	inches	mm	
<b>Grates</b>			
	6	150	040027
	8	200	040028
	10	250	040029


	Dimension		Product Code
	inches	mm	

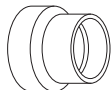
	Dimension		Product Code
	inches	mm	
<b>Sleeve Adapter</b> ABS/DWV Hub to S/D H x Sp			
	4	100	040342


	Dimension		Product Code
	inches	mm	
<b>Male Adapter</b> H x MPT			
	3	75	040720
	4	100	040723


	Dimension		Product Code
	inches	mm	
<b>Female Adapter</b> S/D to Female IPS H x FIP Threads			
	3	75	040948
	4	100	040949
	6	150	040952
	8	200	040945


	Dimension		Product Code
	inches	mm	
<b>Adapter</b> S/D to AC Coupling. Or Crowle G x Sp			
	4	100	040724

	Dimension		Product Code
	inches	mm	
<b>Adapter to Cast Iron</b> S/D to CI Spigot H x H			
	4	100	040704
	Caulk with Oakum & Mortar		

	Dimension		Product Code
	inches	mm	
<b>DWV Hub x Sewer Spigot</b> 10" Long			
	4	100	040808

	Dimension		Product Code
	inches	mm	
<b>Cleanout Adapter</b> Sp x FIP Thread			
	3	75	040953
	4	100	040954
	6	150	040956

	Dimension		Product Code
	inches	mm	
<b>Spigot Adapter</b> ABS/DWV to S.W. Sp x G			
	4 (ABS)	100	043150

	Dimension		Product Code
	inches	mm	
<b>Rectangular Down Spout Adapter to BDS</b>			
	4	100	040960
	Down spout to corrugated		