

Selection, Design & Installation Basics Fabricated Fittings & Dimension Reference



Except for fittings produced to ASTM F1866, Spears® Fabricated Fittings conform to Spears® Manufacturing Company Special Engineering Specifications.

Not all of the Fabricated Fittings listed in this catalog are carried in Spears® Distribution Center inventories. When ordering Fabricated Fittings, please check your servicing Distribution Center for availability. ALL ORDERS FOR NON-STOCKED Fabricated Fittings are NON-CANCELABLE and NON-RETURNABLE.

18" and larger Fabricated Fittings are available upon request. Please contact your servicing Spears® Regional Distribution Center for MSRP and availability.

All 15" Fabricated Fittings shown as Class 63 are PIP O.D. Reducing fittings are 15" PIP O.D. x specified IPS size. Plastic Irrigation Pipe (PIP) and Iron Pipe Size (IPS) are not the same.

Pipe Dimension Reference Chart

Pipe Type	LH PIP 91	80 PIP 51	100 PIP 41	125 PIP 32.5	CL 63 IPS 64	CL 100 IPS 41	SEWER PSM 35	CL 125 IPS 32.5	CL 160 IPS 26	CL 200 IPS 21	40 DWV IPS —	80 DWV IPS —	SCH 40 IPS —	SCH 80 IPS —	C-900 CI DR 18	
4"	O.D.	4.130	4.130	4.130	4.130	4.500	4.500	4.215	4.500	4.500	4.500	4.500	4.500	4.500	4.800	
	I.D.	4.000	3.968	3.928	3.876	4.360	4.280	3.89	4.224	4.154	4.072	3.998	3.786	3.998	3.786	4.22
	Wall PSI	.065	.081	.101	.127	.070	.110	0.125	.138	.173	.214	.237	.337	.237	.337	.267
6"	O.D.	6.140	6.140	6.140	6.140	6.625	6.625	6.275	6.625	6.625	6.625	6.625	6.625	6.625	6.900	
	I.D.	6.000	5.898	5.840	5.762	6.417	6.301	5.742	6.217	6.115	5.993	6.031	5.709	6.031	5.709	6.08
	Wall PSI	.070	.121	.150	.189	.104	.162	0.18	.204	.255	.316	.280	.432	.280	.432	.383
8"	O.D.	8.160	8.160	8.160	8.160	8.625	8.625	8.4	8.625	8.625	8.625	8.625	8.625	8.625	9.050	
	I.D.	7.984	7.840	7.762	7.658	8.355	8.205	7.665	8.095	7.961	7.805	7.943	7.565	7.943	7.565	7.97
	Wall PSI	.088	.160	.199	.251	.135	.210	.024	.265	.332	.410	.322	.500	.322	.500	.503
10"	O.D.	10.200	10.200	10.200	10.200	10.750	10.750	10.5	10.750	10.750	10.750	10.750	10.750	10.750	11.100	
	I.D.	9.980	9.800	9.702	9.572	10.414	10.226	9.563	10.088	9.924	9.748	9.976	9.492	9.976	9.492	9.78
	Wall PSI	.110	.200	.249	.314	.168	.262	0.3	.331	.413	.511	.365	.593	.365	.593	.617
12"	O.D.	12.240	12.240	12.240	12.240	12.750	12.750	12.5	12.750	12.750	12.750	12.750	12.750	12.750	13.200	
	I.D.	11.975	11.760	11.642	11.486	12.352	12.128	11.361	11.966	11.770	11.538	11.890	11.294	11.890	11.294	11.63
	Wall PSI	.132	.240	.299	.377	.199	.311	0.36	.392	.490	.606	.406	.687	.406	.687	.733
14"	O.D.	14.280	14.280	14.280	14.280	*	*	*	*	14	14.000	14.000	14.000	14.000	15.3	
	I.D.	14.000	13.720	13.584	13.402	*	*	*	*	12.86	13.072	12.410	13.072	12.410	13.48	
	Wall PSI	.140	.280	.348	.439	*	*	*	*	0.538	.438	.750	.438	.750	0.85	
15"	O.D.	15.300	15.300	15.300	15.300	*	*	15.3	*	*	*	*	*	*	*	
	I.D.	14.970	14.700	14.550	14.358	*	*	13.898	*	*	*	*	*	*	*	
	Wall PSI	.165	.300	.375	.471	*	*	0.44	*	*	*	*	*	*	*	
16"	O.D.	*	*	*	*	*	*	*	*	16	16.000	16.000	16.000	16.000	17.4	
	I.D.	*	*	*	*	*	*	*	*	14.696	14.940	14.214	14.940	14.214	15.35	
	Wall PSI	*	*	*	*	*	*	*	*	0.615	.500	.843	.500	.843	0.967	
18"	O.D.	18.360	18.701	18.701	18.701	*	18.000	18.701	*	18.000	18	18.000	18	18.000	19.5	
	I.D.	17.964	17.967	17.789	17.551	*	17.122	17.629	*	16.616	16.808	16.014	16.808	16.014	17.83	
	Wall PSI	.198	.367	.456	.575	*	.439	0.536	*	.692	0.562	.937	0.582	.937	1.083	
20"	O.D.	20.400	*	*	*	*	20.000	*	*	20.000	20	20	20	20	21.6	
	I.D.	19.962	*	*	*	*	19.026	*	*	18.462	18.863	17.814	18.863	17.614	19.03	
	Wall PSI	.219	*	*	*	*	.487	*	*	.769	0.533	1.031	0.533	1.031	1.2	
21"	O.D.	*	22.047	22.047	22.047	*	20.000	22.047	*	*	*	*	*	*	*	
	I.D.	*	21.183	20.971	20.691	*	19.026	20.783	*	*	*	*	*	*	*	
	Wall PSI	*	.432	.538	.678	*	.487	0.632	*	*	*	*	*	*	*	
24"	O.D.	*	24.803	24.803	24.803	*	24.000	24.8	*	24	24	24	24	24	25.800	
	I.D.	*	23.831	23.593	23.277	*	22.748	23.381	*	22.043	22.54	21.418	22.54	21.418	23.73	
	Wall PSI	*	.486	.605	.763	*	.585	0.711	*	0.923	0.687	1.218	0.687	1.218	1.200	

*Information Not Available