



Chris Fulton's

PIPE OUTSIDE DIAMETER GUIDE

for Caribbean and Central American Pipe

Nominal Diameter

Nominal Size (mm)	80/90	100mm	125mm	150mm	200mm	250mm	300mm	350mm		400mm	450mm	500mm		600mm
Nominal Size (inches)	3"	4"	5"	6"	8"	10"	12"	14"	15"	16"	18"	20"	21"	24"

Actual Outside Diameters

STEEL PIPE Size (inches)	3.50	4.50	~	6.63	8.63	10.75	12.75	14.00	~	16.00	18.00	20.00	~	24.00
CLASS/Sched/ASTM2241/"IPS"	3.50	4.50	5.56	6.63	8.63	10.75	12.75	14.00	~	16.00	18.00	20.00	~	24.00
STEEL PIPE Size (mm)	90 mm	114 mm	141 mm	168 mm	219 mm	273 mm	324 mm	356 mm	~	406 mm	457 mm	508 mm	~	610 mm
SEWER/ASTMD3034 (inches)		4.22	~	6.28	8.40	10.50	12.50	~	15.30	~	18.70	~	21.75	24.80
SEWER/ASTMD3034 (mm)		107 mm	~	160 mm	213 mm	267 mm	318 mm	~	389 mm	~	475mm	~	552 mm	630 mm
PIP / ASTM2241 Annex (inches)					8.16	10.20	12.24		15.30	~	18.70	~	21.75	24.80
PIP / ASTM2241 Annex (mm)									389 mm	~	475 mm	~	552 mm	630 mm
PVC AWWA C900 & C905	3.96	4.80	~	6.90	9.05	11.10	13.20	15.30	~	17.40	19.50	21.60	~	25.80
D.I. AWWA C150	3.96"	4.80	~	6.90	9.05	11.10	13.20	15.30	~	17.40	19.50	21.60	~	25.80
AWWA PVC & DI (mm)	100.6	121.9	~	175 mm	230 mm	282 mm	335 mm	389 mm		442 mm	478 mm	549 mm	~	655 mm
D.I. ISO 2531 EN545 NOMINAL	80	100	125	150	200	250	300	350		400	450	500		600
ISO 2531 EN545 ACTUAL (mm)	98mm	118mm	144 mm	170mm	222mm	274 mm	326 mm	378 mm		429 mm	480 mm	532 mm		635 mm
ISO 2531 EN545 (inches)	3.85	4.65"	5.67 in	6.70	8.74	10.79	12.83	14.88		16.89	18.9	20.94		25.00
JCM 241 Optimum fits?	Yes	Yes	Yes 150psi	Yes	Yes	Yes	Yes	Yes		Yes	Yes			
JCM Range inches	3.45-4.20	4.22-5.60	4.22-5.60	6.28-7.60	8.40-9.75	10.50-12.12	12.50-14.38	14.88-16.93		14.88-16.93	17.32 -19.20			
JCM Range in mm	88 - 106	107 -142	107-142	160 - 193	213.5-247	267 - 308	317.5-365	378 -430		378-430	440 - 487			
PVC ISO/DIN 4422/8061 (mm)	90 mm	110 mm		160 mm	225 mm	280 mm	315 mm	355mm		400 mm	450 mm			
PVC ISO/DIN 4422/8061 (inches)	3.54	4.33		6.35	8.86	11.02	12.40	13.98		15.75	17.72			
JCM 241 Optimum fits?	Yes	Yes		Yes	Yes	Yes	Almost	Yes 12"		Yes 14"				
PVC BS 3506 (mm)	88mm	114mm	~	168mm	219mm									
PVC BS 3506 (inches)	3.47	4.49	~	6.61	8.61									
JCM 241 Optimum fits?	Yes	Yes		Yes	Yes									





PVC Pressure Chart

Pressure Ratings in psi for PVC pipe. Safety factor of 2.0 as defined by ASTM 2241. Safety factor 2.0 for AWWA C900 and C905, updated*

Nominal Size in Inches	IPS Schedule Pipe ASTM2241				IPS Class Pipe ASTM 2241						AWWA Class Pipe C900 & C905 C.I.O.D.							
	PVC Sch. 40 <i>variable</i>	PVC Sch. 80 <i>variable</i>	PVC Thread 80 <i>variable</i>	CPVC Sch.80 <i>variable</i>	PVC SDR 13.5 <i>constant</i>	PVC SDR 17 <i>constant</i>	PVC SDR 21 <i>constant</i>	PVC SDR 26 <i>constant</i>	PVC SDR 32.5 <i>constant</i>	PVC SDR 41 <i>constant</i>	C900 DR 14 <i>constant</i>	C900 DR 18 <i>constant</i>	C900 DR 25 <i>constant</i>	C905 DR18 <i>constant</i>	C905 DR 21 <i>constant</i>	C905 DR 25 <i>constant</i>	DR 32.5 <i>constant</i>	DR41 <i>constant</i>
1/2"	600 psi	850 psi	425 psi	850 psi	315 psi						~	~	~	~	~	~	~	~
3/4"	480	690	345	690	315						~	~	~	~	~	~	~	~
1"	450	630	320	630	315	250		160	125	100	~	~	~	~	~	~	~	~
1-1/4"	370	520	260	520	315	250		160	125	100	~	~	~	~	~	~	~	~
1-1/2"	330	470	240	470	315	250		160	125	100	~	~	~	~	~	~	~	~
2"	280	400	200	400	315	250	200	160	125	100	~	~	~	~	~	~	~	~
2-1/2"	300	420	210	420	315	250	200	160	125	100	~	~	~	~	~	~	~	~
3	260	370	190	370	315	250	200	160	125	100	~	~	~	~	~	~	~	~
4	220	320	160	320	315	250	200	160	125	100	305	235	165	~	~	~	~	~
5	190	290	140	290			200	160	125	100	~	~	~	~	~	~	~	~
6	180	280	140	280	315	250	200	160	125	100	305	235	165	~	~	~	~	~
8	160	250	120	250	315	250	200	160	125	100	305	235	165	~	~	~	~	~
10	140	230	120	230		250	200	160	125	100	305	235	165	~	~	~	~	~
12	130	230	110	230		250	200	160	125	100	305	235	165	~	~	~	~	~
14	130	220	n/r	220		250	200	160	125	100	~	~	~	235	200	165	125	100
16	130	220	n/r	220		250	200	160	125	100	~	~	~	235	200	165	125	100
18	130	220	n/r	220		250	200	160	125	100	~	~	~	235	200	165	125	100
20	120	220	n/r	220		250	200	160	125	100	~	~	~	235	200	165	125	100
24	120	210		210		250	200	160	125	100	~	~	~	235	200	165	125	100

* AWWA C900 pressure ratings have changed.
 C900 pressure rating formerly used a safety factor of 2.5 and greater surge allowance.
 DR14 was Class 200. NB: **Factory Mutual** <FM> has maintained the 200 rating for DR 14
 DR18 was Class 150. NB: **Factory Mutual** <FM> has maintained the 150 rating for DR 18
 DR25 was Class 100

"PAJAMAS"

Don't buy pipe, don't buy fittings
 until you check the PAJAMAS

- P = PRESSURE**
- J = JOINT**
- M = MATERIAL**
- S = The STANDARD**