



► **ASTM D-2241 PRESSURE PIPE** | Gasketed Pipe Specifications

Northern Pipe Products ASTM D-2241 IPS Pressure Rated Pipe is manufactured from compounds conforming to cell class 12454 in accordance with ASTM D-1784. Pipe 1.5” through 12” is made with an integral bell joining system which meets ASTM D-3139 and utilizes an elastomeric seal meeting the specification defined in ASTM F-477. Northern Pipe Products Pressure Pipe for potable water carries the NSF Standard 14 and the CSA (Canadian Standards Association) marks of acceptance. It is manufactured in 20’ and 40’ laying lengths.

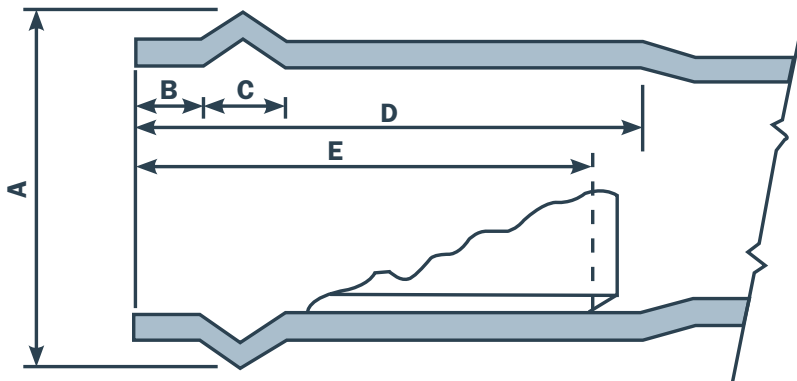
► **ASTM D-2241 GASKETED IPS PRESSURE PIPE** | Cell Classification 12454

NOMINAL PIPE SIZE (IN.)	PIPE OUT-SIDE DIAMETER (IN.)	SDR-26 (160 PSI)			SDR-21 (200 PSI)			SDR-17 (250 PSI)		
		MINIMUM WALL (IN.)	POUNDS PER FOOT		MINIMUM WALL (IN.)	POUNDS PER FOOT		MINIMUM WALL (IN.)	POUNDS PER FOOT	
			20' LENGTH	40' LENGTH		20' LENGTH	40' LENGTH		20' LENGTH	40' LENGTH
1.5"	1.900"	N/A	N/A	N/A	.090"	.341	.338	.112"	.419 lbs.	.415 lbs.
2"	2.375"	.090"	.436 lbs.	.431 lbs.	.113"	.536	.531	.140"	.656 lbs.	.650 lbs.
2.5"	2.875"	.110"	.639 lbs.	.632 lbs.	.137"	.789	.780	.169"	.962 lbs.	.950 lbs.
3"	3.500"	.140"	.956 lbs.	.944 lbs.	.167"	1.171	1.157	.206"	1.427 lbs.	1.411 lbs.
4"	4.500"	.170"	1.580 lbs.	1.560 lbs.	.214"	1.930	1.910	.265"	2.370 lbs.	2.340 lbs.
5"	5.563"	.210"	2.420 lbs.	2.390 lbs.	.265"	2.970	2.930	.327"	3.620 lbs.	3.570 lbs.
6"	6.625"	.260"	3.440 lbs.	3.390 lbs.	.316"	4.230	4.160	.390"	5.150 lbs.	5.080 lbs.
8"	8.625"	.330"	5.840 lbs.	5.750 lbs.	.410"	7.140	7.030	.508"	8.750 lbs.	8.610 lbs.
10"	10.750"	.410"	9.110 lbs.	8.940 lbs.	.511"	11.160	10.960	.632"	13.650 lbs.	13.400 lbs.
12"	12.750"	.490"	12.820 lbs.	12.650 lbs.	.606"	15.700	15.450	.750"	19.200 lbs.	18.950 lbs.

▶ ASTM D-2241 PRESSURE PIPE | Gasketed Joint Specifications

Northern Pipe Products PVC gasketed IPS Pressure Rated Pipe Water Transmission Pipe is made with gasketed joints conforming to ASTM D-3139 when measured in accordance with ASTM D-2122. Gaskets shall be manufactured to conform to the requirements of ASTM F-477. Northern Pipe Products employs the Rieber Gasket System. The Rieber joining system is a factory made “locked-in” flexible elastomeric seal. The gasket is installed in the bell race during manufacture of the joint. It should not be removed for any reason, destruction of the joint occurs.

▶ LOCKED-IN GASKET JOINT



- A.** Gasket Groove (Race) Outside Diameter
- B.** Lip Length
- C.** Gasket Groove (Race) Length
- D.** Overall Joint
- E.** Spigot Insertion Depth

NOMINAL PIPE SIZE (IN.)	DIMENSIONS (IN.)				
	(A) GASKET GROOVE (RACE) OUTSIDE DIAMETER	(B) LIP LENGTH	(C) GASKET GROOVE (RACE) LENGTH	(D) OVERALL JOINT	(E) SPIGOT INSERTION DEPTH
1.5"	2.560"	.625"	.820"	4.000"	3.000"
2"	3.090"	.750"	.760"	4.250"	3.250"
2.5"	3.825"	1.000"	1.090"	4.500"	3.500"
3"	4.550"	1.000"	1.160"	4.750"	3.750"
4"	5.650"	1.250"	1.150"	5.750"	4.750"
5"	6.790"	1.250"	1.250"	6.250"	5.250"
6"	8.100"	1.500"	1.375"	6.750"	5.750"
8"	10.350"	1.500"	1.500"	7.250"	6.250"
10"	12.700"	1.750"	1.750"	8.250"	7.250"
12"	14.900"	2.000"	1.900"	9.000"	8.000"



▶ ASTM D-2241 PRESSURE PIPE | Solvent Weld Pipe Specifications

Northern Pipe Products PVC IPS Pressure Rated Pipe is manufactured from compounds conforming to cell class 12454 in accordance with ASTM D-1784. The Belled End Pipe meets or exceeds the specifications of ASTM D-2672, is made from potable water compounds and carries the NSF Standard 14 mark of acceptance. The 2" through 12" diameter SDR-26, the 1.5" through 12" diameter SDR-21, and the 1.5" through 12" diameter SDR-17 pipe sizes are also Canadian Standards Association Standard B-137.3 listed. The pipe standard length is 20'. The .75" through 3" sizes represent overall length and 4" through 12" sizes represent laying length.

▶ ASTM D-2241 SOLVENT WELD IPS PRESSURE PIPE | Cell Classification 12454

NOMINAL PIPE SIZE (IN.)	PIPE OUTSIDE DIAMETER (IN.)	SDR-26 (160 PSI)		SDR-21 (200 PSI)		SDR-17 (250 PSI)	
		MINIMUM WALL (IN.)	POUNDS PER FOOT	MINIMUM WALL (IN.)	POUNDS PER FOOT	MINIMUM WALL (IN.)	POUNDS PER FOOT
			20' LENGTH		20' LENGTH		20' LENGTH
.75"	1.050"	N/A	N/A	.060"	.122 lbs.	N/A	N/A
1"	1.315"	N/A	N/A	.063"	.162 lbs.	N/A	N/A
1.25"	1.660"	.064"	.210 lbs.	.079"	.257 lbs.	N/A	N/A
1.5"	1.900"	.073"	.274 lbs.	.090"	.335 lbs.	.112"	.411 lbs.
2"	2.375"	.091"	.427 lbs.	.113"	.525 lbs.	.140"	.643 lbs.
2.5"	2.875"	.110"	.625 lbs.	.137"	.771 lbs.	.169"	.939 lbs.
3"	3.500"	.135"	.933 lbs.	.167"	1.143 lbs.	.206"	1.394 lbs.
4"	4.500"	.173"	1.580 lbs.	.214"	1.940 lbs.	.265"	2.370 lbs.
5"	5.563"	.214"	2.420 lbs.	.265"	2.960 lbs.	.327"	3.610 lbs.
6"	6.625"	.255"	3.440 lbs.	.316"	4.220 lbs.	.390"	5.140 lbs.
8"	8.625"	.332"	5.840 lbs.	.410"	7.140 lbs.	.508"	8.750 lbs.
10"	10.750"	.413"	9.060 lbs.	.511"	11.100 lbs.	.632"	13.570 lbs.
12"	12.750"	.490"	12.800 lbs.	.606"	15.690 lbs.	.750"	19.180 lbs.



▶ ASTM D-1785 SCHEDULE 40 PRESSURE PIPE | Solvent Weld Pipe Specifications

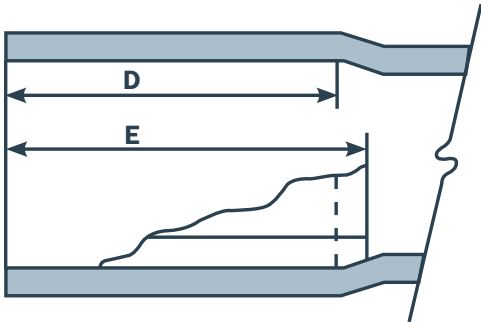
Northern Pipe Products PVC IPS Pressure Rated Schedule 40 Pipe is manufactured from compounds conforming to cell class 12454 in accordance with ASTM D-1784. The Belled End Pipe meets or exceeds specification ASTM D-2672, is made from potable water compounds, and carries the NSF Standard 14 mark of acceptance. The .75" through 12" diameter pipe sizes are also Canadian Standards Association Standard B-137.3 listed. Plain end and bell end pipe sizes 1.25" through 12" are dual marked with specification ASTM D-2665 (Plastic Drain, Waste and Vent Pipe). Pipe standard length is 20'. The .75" through 3" sizes represent overall length and 4" through 16" sizes represent laying length.

▶ PVC SCHEDULE 40 PRESSURE PIPE | Cell Classification 12454

NOMINAL PIPE SIZE (IN.)	PIPE OUTSIDE DIAMETER (IN.)	PIPE PRESSURE RATING (PSI)	SCH-40 PLAIN END		SCH-40 BELL END	
			MINIMUM WALL (IN.)	POUNDS PER FOOT	MINIMUM WALL (IN.)	POUNDS PER FOOT
				20' LENGTH		20' LENGTH
.75"	1.050"	480 psi	.113"	.218 lbs.	.113"	.218 lbs.
1"	1.315"	450 psi	.133"	.323 lbs.	.133"	.323 lbs.
1.25"	1.660"	370 psi	.140"	.437 lbs.	.140"	.437 lbs.
1.5"	1.900"	330 psi	.145"	.523 lbs.	.145"	.523 lbs.
2"	2.375"	280 psi	.154"	.703 lbs.	.154"	.703 lbs.
2.5"	2.875"	300 psi	.203"	1.114 lbs.	.203"	1.114 lbs.
3"	3.500"	260 psi	.216"	1.457 lbs.	.216"	1.457 lbs.
4"	4.500"	220 psi	.237"	2.080 lbs.	.237"	2.130 lbs.
5"	5.563"	190 psi	.258"	2.810 lbs.	.258"	2.890 lbs.
6"	6.625"	180 psi	.280"	3.650 lbs.	.280"	3.760 lbs.
8"	8.625"	160 psi	.322"	5.490 lbs.	.322"	5.850 lbs.
10"	10.750"	140 psi	.365"	7.790 lbs.	.365"	8.040 lbs.
12"	12.750"	130 psi	.406"	10.300 lbs.	.406"	10.670 lbs.
14"	14.000"	130 psi	.437"	12.200 lbs.	.437"	12.620 lbs.
16"	16.000"	130 psi	.500"	15.930 lbs.	.500"	16.550 lbs.



► IPS PRESSURE PIPE | Solvent Weld Joint Specifications



- D.** Socket Depth
- E.** Spigot Insertion Depth

NOMINAL PIPE SIZE (IN.)	DIMENSIONS (IN.)	
	(D) SOCKET DEPTH	(E) SPIGOT INSERTION DEPTH
.75"	2.00"	2.00"
1"	2.00"	2.00"
1.25"	2.50"	2.50"
1.5"	3.00"	3.00"
2"	3.00"	3.00"
2.5"	3.50"	3.75"
3"	4.00"	4.25"
4" (10' Length)	4.00"	4.25"
4" (20' Length)	6.00"	6.25"
5"	7.00"	7.50"
6"	6.50"	7.00"
8"	7.00"	7.50"
10"	7.50"	8.00"
12"	8.50"	8.75"



► IPS PRESSURE PIPE | Truckload Data

NOMINAL PIPE SIZE (IN.)	PIPE OUTSIDE DIAMETER (IN.)	PLAIN END		GASKET JOINT				SOLVENT WELD	
		FEET PER PALLET	FEET PER TRUCKLOAD	FEET PER PALLET		FEET PER TRUCKLOAD		FEET PER PALLET	FEET PER TRUCKLOAD
		20' LENGTH		20' LENGTH	40' LENGTH	20' LENGTH	40' LENGTH	20' LENGTH	
.75"	1.050"	8,100'	226,800'	N/A	N/A	N/A	N/A	8,100'	226,800'
1"	1.315"	6,300'	176,400'	N/A	N/A	N/A	N/A	6,300'	176,400'
1.25"	1.660"	4,000'	112,000'	N/A	N/A	N/A	N/A	4,000'	112,000'
1.5"	1.900"	3,600'	86,400'	3,600'	7,200'	86,400'	86,400'	3,600'	86,400'
2"	2.375"	2,100'	58,800'	2,100'	4,200'	58,800'	58,800'	2,100'	58,800'
2.5"	2.875"	1,460'	40,880'	1,460'	2,920'	40,880'	40,880'	1,460'	40,880'
3"	3.500"	920'	25,760'	920'	1,840'	25,760'	25,760'	920'	25,760'
4"	4.500"	580'	16,240'	580'	1,160'	16,240'	16,240'	580'	16,240'
4.5"	4.950"	580'	13,920'	N/A	N/A	N/A	N/A	580'	13,920'
5"	5.563"	460'	11,040'	460'	920'	11,040'	11,040'	460'	11,040'
6"	6.625"	400'	8,000'	280'	560'	7,840'	7,840'	400'	8,000'
8"	8.625"	200'	4,000'	200'	400'	4,000'	4,000'	200'	4,000'
10"	10.750"	240'	2,880'	240'	160'/200'	2,880'	2,880'	240'	2,880'
12"	12.750"	80'/160'	2,240'	120'/160'	120'/160'	1,960'	1,960'	80'/160'	2,240'
14"	14.000"	120'	1,440'	120'	N/A	1,440'	N/A	120'	1,440'
15" (PIP)	15.300"	N/A	N/A	120'	N/A	1,440'	N/A	N/A	N/A
16"	16.000"	120'	1,440'	120'	N/A	1,440'	N/A	120'	1,440'