

PVC-U pressure pipe

PRODUCT GUIDE · PIPING-06

PVC-U pressure pipe is rigid unplasticised PVC used in compatible water and process pipework. It is joined using a matched pipe-and-fitting system.

Application

Water transfer, treatment plant pipework and compatible chemical services.

Configuration options

Metric or imperial dimensions; pressure class or schedule; socket or flanged connections.

PVC-U · ASTM D1785 · IPS Sch 40

Outside diameter, wall and bore are in millimetres. NPS/inch sizes are nominal designations.

IPS inch dimensions converted using 25.4 mm/inch. Average ID is a separate published reference, not OD minus twice minimum wall. Australian metric pipe uses a different dimensional system.

Size	Outside Ø	Minimum wall	Reference average ID*
NPS 1/2 in	21.336	2.7686	15.2908
NPS 3/4 in	26.67	2.8702	20.4216
NPS 1 in	33.401	3.3782	26.1366
NPS 1 1/4 in	42.164	3.556	34.544
NPS 1 1/2 in	48.26	3.683	40.386
NPS 2 in	60.325	3.9116	51.9938
NPS 2 1/2 in	73.025	5.1562	62.103
NPS 3 in	88.9	5.4864	77.2668
NPS 3 1/2 in	101.6	5.7404	89.4334
NPS 4 in	114.3	6.0198	101.5492
NPS 5 in	141.3002	6.5532	127.4064
NPS 6 in	168.275	7.112	153.1874
NPS 8 in	219.075	8.1788	201.7268
NPS 10 in	273.05	9.271	253.3904
NPS 12 in	323.85	10.3124	301.9806

Common IPS nominal sizes ½–12 inches. OD/minimum wall and published average ID may come from separate technical tables; the offered product and tolerances must be confirmed. No pressure rating or stock availability is implied.

PVC-U · ASTM D1785 · IPS Sch 80

Outside diameter, wall and bore are in millimetres. NPS/inch sizes are nominal designations.

IPS inch dimensions converted using 25.4 mm/inch. Average ID is a separate published reference, not OD minus twice minimum wall. Australian metric pipe uses a different dimensional system.

Size	Outside Ø	Minimum wall	Reference average ID*
NPS 1/2 in	21.336	3.7338	13.3604
NPS 3/4 in	26.67	3.9116	18.3388
NPS 1 in	33.401	4.5466	23.7744
NPS 1 1/4 in	42.164	4.8514	31.877
NPS 1 1/2 in	48.26	5.08	37.4904
NPS 2 in	60.325	5.5372	48.5902
NPS 2 1/2 in	73.025	7.0104	58.166
NPS 3 in	88.9	7.62	72.7456
NPS 3 1/2 in	101.6	8.0772	84.4804
NPS 4 in	114.3	8.5598	96.1644
NPS 5 in	141.3002	9.525	121.1072
NPS 6 in	168.275	10.9728	145.0086
NPS 8 in	219.075	12.7	192.151
NPS 10 in	273.05	15.0622	241.1222
NPS 12 in	323.85	17.4498	286.8676

Common IPS nominal sizes ½–12 inches. OD/minimum wall and published average ID may come from separate technical tables; the offered product and tolerances must be confirmed. No pressure rating or stock availability is implied.

Details to include in your enquiry

Actual outside diameter and sizing system · Pressure class or schedule · Fluid, temperature and required vacuum duty

Technical references

[PVC-DWV and Schedule 40 Pressure Plain-End Pipe, PVC-40-PE-PIPE — open reference](#) · Manufacturer / supplier reference · Confirm current revision with quotation

[Pipe & Hangers Technical: Dimensions & Pressure Ratings — open reference](#) · Drawing / dimensions · Confirm current revision with quotation

[PVC Schedule 80 Plain-End and Belled-End Pipe, PVC-80-PIPE — open reference](#) · Manufacturer / supplier reference · Confirm current revision with quotation

[Schedule 80 PVC Pipe Dimensions & Pressure Ratings — open reference](#) · Drawing / dimensions · Confirm current revision with quotation