PPR Pipe Size Chart — mm and inches

Wall thicknesses from ISO 15874-2:2013 Table 5, dimension class A. PP-R is sized by outside diameter in millimetres; the inch column is a nominal trade size, not a conversion. Sheet dated 2026-08-14 · US Letter · ifanultra.com

1. Wall thickness by pressure class (mm) — ISO 15874-2:2013 Table 5

DN/OD	d em,max	S5 SDR 11 / PN10	S3,2 SDR 7,4 / PN16	S2,5 SDR 6 / PN20	S2 SDR 5 / PN25
12	12,3	1,8	1,8	2,0	2,4
16	16,3	1,8	2,2	2,7	3,3
20	20,3	1,9	2,8	3,4	4,1
25	25,3	2,3	3,5	4,2	5,1
32	32,3	2,9	4,4	5,4	6,5
40	40,4	3,7	5,5	6,7	8,1
50	50,5	4,6	6,9	8,3	10,1
63	63,6	5,8	8,6	10,5	12,7
75	75,7	6,8	10,3	12,5	15,1
90	90,9	8,2	12,3	15,0	18,1
110	111	10,0	15,1	18,3	22,1
125	126,2	11,4	17,1	20,8	25,1
140	141,3	12,7	19,2	23,3	28,1
160	161,5	14,6	21,9	26,6	32,1

Tolerance on wall thickness runs one way only: +x / –0. A conforming pipe may be thicker than the table figure, never thinner — which is what lets this sheet be used as a goods-in acceptance test rather than just a reference.

2. Trade size vs. true conversion, and nominal bore at PN20

DN/OD	True conversion (d n ÷ 25,4)	Nominal trade size (thread-mating)	PN20 nominal bore (mm)
20	0,787 in	1/2"	13,2
25	0,984 in	3/4"	16,6
32	1,260 in	1"	21,2
40	1,575 in	1-1/4"	26,6
50	1,969 in	1-1/2"	33,4
63	2,480 in	2"	42,0
75	2,953 in	2-1/2"	50,0
90	3,543 in	3"	60,0
110	4,331 in	4"	73,4
160	6,299 in	6"	106,8

Two conventions are in circulation. Some suppliers map DN to the threaded fitting it mates with, others to the approximate bore. Both are internally consistent; neither is arithmetic. State DN/OD in millimetres and the pressure class on the purchase order.

3. Wall-thickness tolerance bands (ISO 15874-2:2013 Table 9)

Minimum wall e min (mm)	Tolerance	Applies to (PN20 examples)
>3,0 – 4,0	+0,5 / –0	DN20 (3,4)
>4,0 – 5,0	+0,6 / –0	DN25 (4,2)

>5,0 – 6,0	+0,7 / –0	DN32 (5,4)
>6,0 – 7,0	+0,8 / –0	DN40 (6,7)
>8,0 – 9,0	+1,0 / –0	DN50 (8,3)
>10,0 – 11,0	+1,2 / –0	DN63 (10,5)
>18,0 – 19,0	+2,0 / –0	DN110 (18,3)

4. Where our published schedule and the ISO table differ

Size (PN20)	ISO 15874-2 Table 5, S2,5	IFANULTRA published schedule	Status
DN20, 25, 32, 40, 63, 75, 90, 160	3,4 / 4,2 / 5,4 / 6,7 / 10,5 / 12,5 / 15,0 / 26,6	identical	agree
DN50	8,3 mm	8.4 mm	differ by 0,1
DN110	18,3 mm	18.4 mm	differ by 0,1

Source: ISO 15874-2:2013, *Plastics piping systems for hot and cold water installations — Polypropylene (PP) — Part 2: Pipes*, Tables 5 and 9. Figures are reproduced for reference; the standard itself is the authority and should be purchased from ISO or your national standards body before it is used contractually. This sheet covers the four pressure classes in commercial circulation (S5/PN10, S3,2/PN16, S2,5/PN20, S2/PN25); ISO Table 5 also lists series that are not commonly stocked in PP-R. Free to print, copy and forward — no attribution required, no email address required. © 2026 IFANULTRA · ifanultra.com