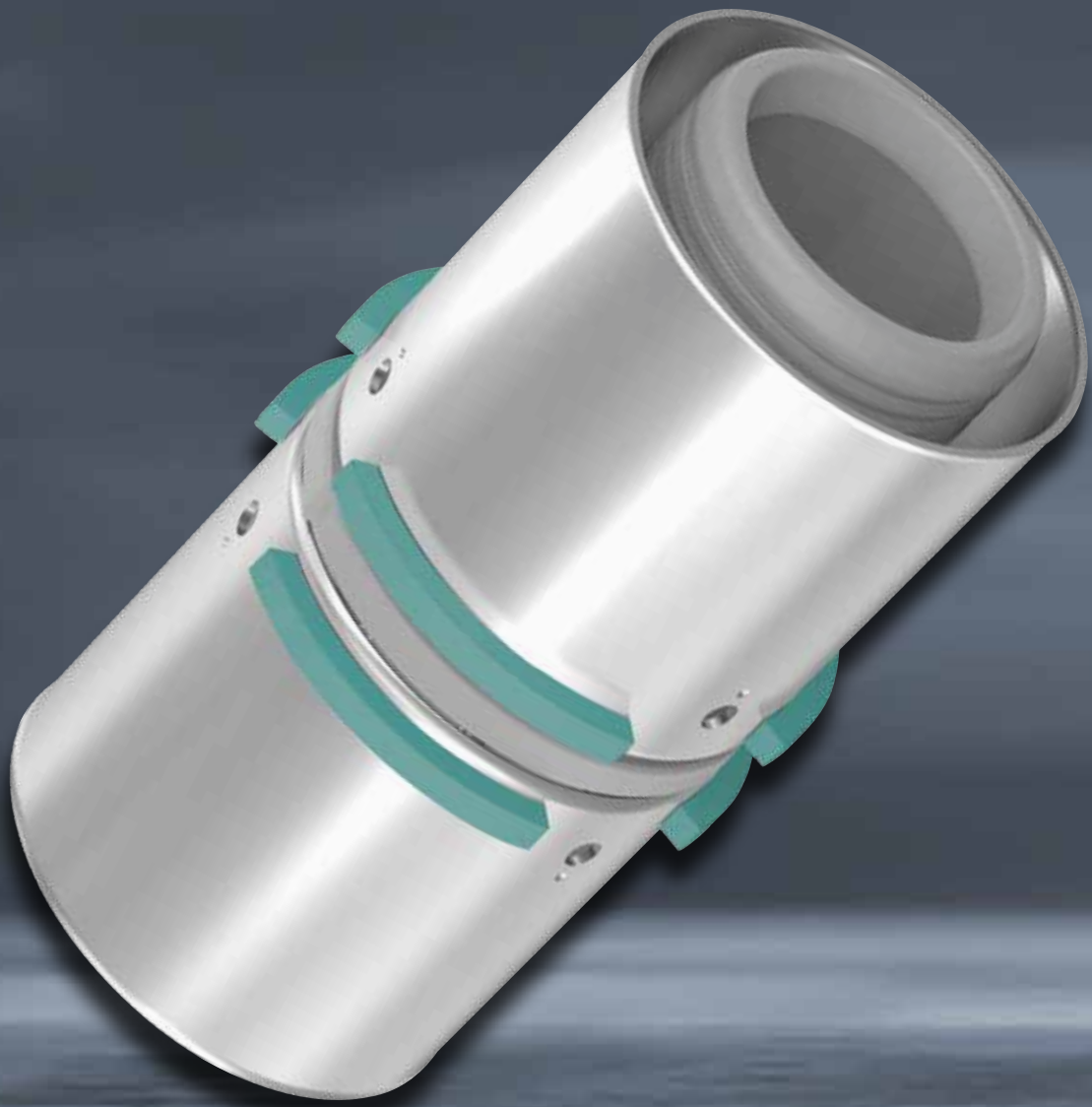


uponor

Build on Uponor with S-Press

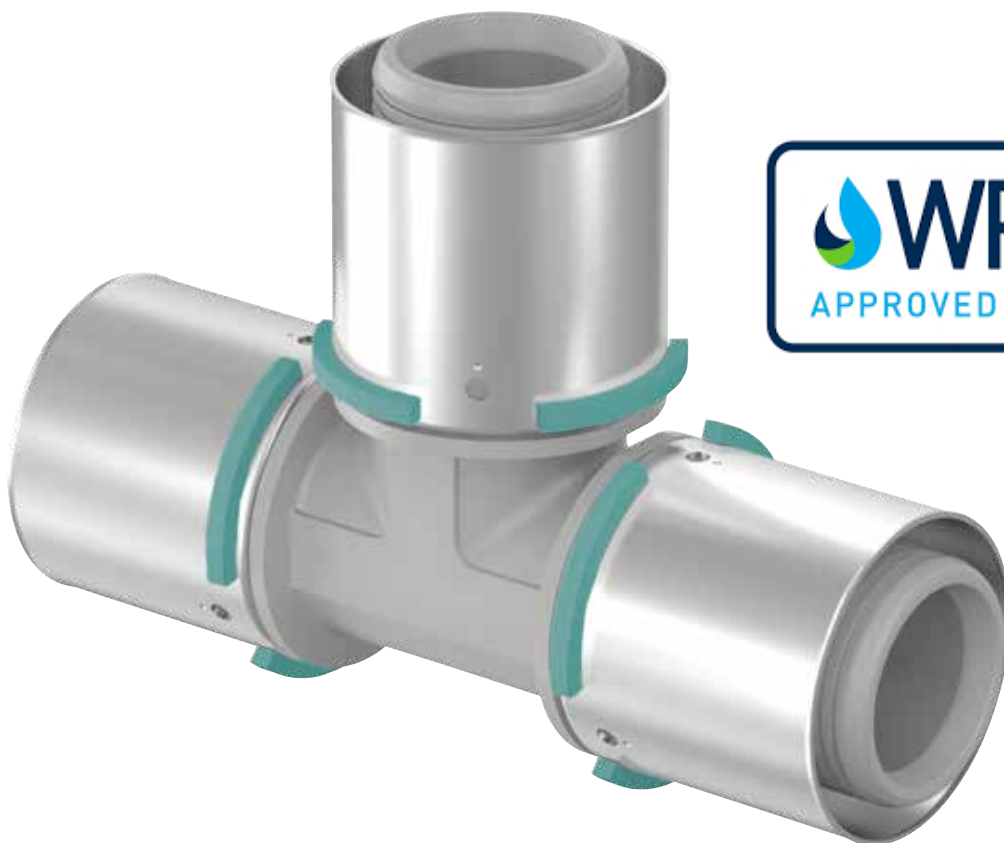
Technical Datasheet S-Press composite 63 & 75mm PPSU




S-Press composite range extension in dimensions 63 & 75mm

Designed to make your riser installation fast, reliable and economical

- ✓ Large dimension 63 & 75mm with a PPSU body
- ✓ Alternative product for the Uponor RS 63 & 75mm products
- ✓ Fast installation with easy beveling and no need for calibration
- ✓ Compatible with Uponor 63 & 75mm MLC pipes
- ✓ Colour coding
- ✓ Leak path safety function
- ✓ Stop ring segments for precise jaw location



Features of S-Press composite 63 & 75mm PPSU

System fittings		S-Press composite 63&75mm PPSU
Dimension da x s [mm]	Compatible Pipes	
63 x 6,0	MLC Pipe white S	●
75 x 7,5	MLC Pipe white S	●
Features		
Colour coded sizes		●
Press Inspection windows		●
Easy pipe bevelling.		●
No pipe calibration required		●
Un-pressed leak-path feature		●
PPSU body with stainless steel press sleeve		●

Color code / Tool concept

Dim. 40

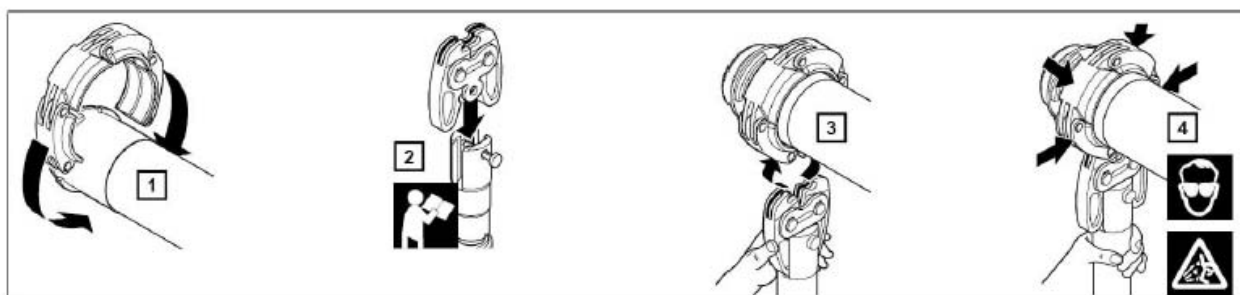
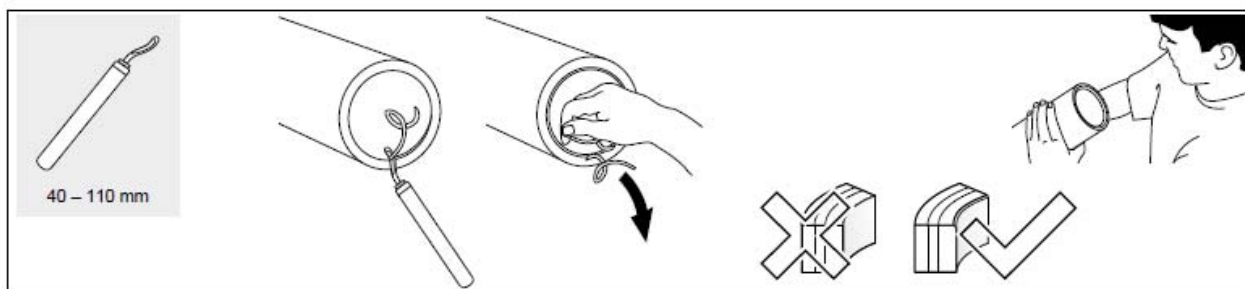
Dim. 50

Dim. 63

Dim. 75

The bright colour coding on the press sleeve is easy to recognise even from long distances. The matching colour coding on the pressing tools identifies the correct size tool to use..

Fully compatible with all current Uponor MLC pipes and Uponor press tools



Fields of application

The Uponor 40-75mm S-Press fitting range is ideal for many types of installation from domestic houses through to large public buildings and commercial installations.

Compatible with Uponor's range of MLC pipes, the system have been tested to many stringent product approvals including hygienic approvals such as WRAS.

S-Press 40-75mm is ideal for most applications such as potable water, heating water and chilled water applications.

Tap water: The permanent operating temperature ranges from 0°C to 70°C at a maximum permanent operating pressure of 10 bar. The short-term malfunction temperature is 95°C for a period of 100 hours in the operating life time.

Heating: The permanent operating temperature ranges up to 80°C at a maximum permanent operating pressure of 10 bar. The short-term malfunction temperature is 100°C for a period of 100 hours in the operating life time.

Uponor S-Press composite 40-75mm portfolio



UPONOR S-PRESS COMPOSITE ELBOW

Items	Description	material
1046386	PPSU 40-40	PPSU
1046387	PPSU 50-50	PPSU
1032877	PPSU 63-63	PPSU
1032878	PPSU 75-75	PPSU



UPONOR S-PRESS COMPOSITE TEE

Items	Description	material
1046390	PPSU 40-40-40	PPSU
1046391	PPSU 50-50-50	PPSU
1032887	PPSU 63-63-63	PPSU
1032888	PPSU 75-75-75	PPSU



UPONOR S-PRESS COMPOSITE ELBOW 45°

Items	Description	material
1046388	PPSU 40-40	PPSU
1046389	PPSU 50-50	PPSU
1032879	PPSU 63-63	PPSU
1032880	PPSU 75-75	PPSU



UPONOR S-PRESS COMPOSITE TEE REDUCER

Items	Description	material
1046392	PPSU 40-20-40	PPSU
1046393	PPSU 40-25-32	PPSU
1046394	PPSU 40-25-40	PPSU
1046395	PPSU 40-32-32	PPSU
1046396	PPSU 40-32-40	PPSU
1046397	PPSU 50-25-40	PPSU
1046398	PPSU 50-25-50	PPSU
1046399	PPSU 50-32-50	PPSU
1046400	PPSU 50-40-50	PPSU
1032889	PPSU 63-25-63	PPSU
1032890	PPSU 63-32-63	PPSU
1032891	PPSU 63-40-63	PPSU
1032892	PPSU 75-32-75	PPSU
1032893	PPSU 75-40-75	PPSU
1032894	PPSU 75-50-75	PPSU



UPONOR S-PRESS COMPOSITE COUPLING

Items	Description	material
1046401	PPSU 40-40	PPSU
1046402	PPSU 50-50	PPSU
1032881	PPSU 63-63	PPSU
1032882	PPSU 75-75	PPSU



UPONOR S-PRESS COMPOSITE REDUCER












Items	Description	material
1046403	PPSU 40-25	PPSU
1046404	PPSU 40-32	PPSU
1046405	PPSU 50-32	PPSU
1046406	PPSU 50-40	PPSU
1032883	PPSU 63-40	PPSU
1032884	PPSU 63-50	PPSU
1032885	PPSU 75-50	PPSU
1032886	PPSU 75-63	PPSU



UPONOR S-PRESS ADAPTER MALE THREAD (METAL)

Items	Description	material
1046901	40-R1 1/4"MT	Brass
1046902	40-R1 1/2"MT	Brass
1046905	50-R1 1/2"MT	Brass
1046906	50-R2"MT	Brass
1032895	63-R2"MT	Brass
1032896	75-R2 1/2"MT	Brass

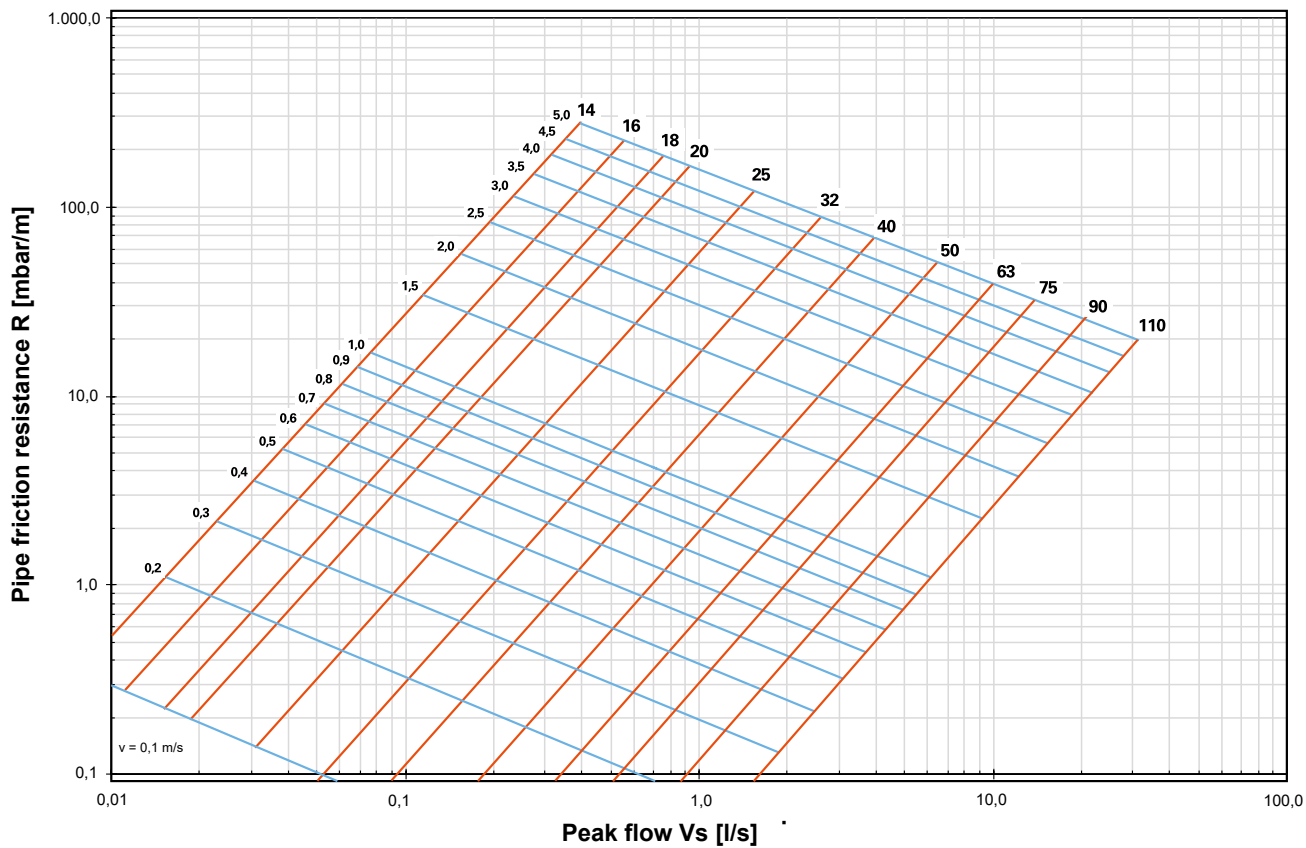
List of Zeta values

			Zeta values ζ			
			DN 32	DN 40	DN 50	DN 65
			Dimensions OD d_a mm			
			40	50	63	75
Branch run at flow split	TA 	5,5	4,4	5,2	5,0	
Branch run at flow split	TD 	1,0	0,7	1,2	1,2	
Branch reverse run at flow split	TG 	6,1	4,8	6,7	6,3	
Branch reverse run at merged flow	TVA 	12,1	9,4	12,6	11,8	
Branch run at merged flow	TVD 	22,8	18,8	25,5	26,0	
Branch reverse run at merged flow	TVG 	12,4	9,7	13,5	12,7	
Press elbow	W90 	5,1	4,3	4,4	3,8	
Press elbow 45°	W45 	2,1	2,0	1,7	1,7	
Reducing	RED 	0,9	1,3	1,2	1,0	
Coupling	K 	0,8	0,6	0,6	0,6	

Zeta values S-Press composite 40-75 portfolio

Pressure loss diagram for Uponor composite pipes, cold water

Flow of water at 10 °C



Calculation table for radiator connection - Hot water pipe sizing table

Conversion factor for pressure loss

90°C	80°C	70°C	60°C	50°C	40°C	30°C	20°C
0,95	0,98	1,00	1,02	1,05	1,10	1,14	1,20

Water temperature 70 °C
Supply temperature 80 °C
Return temperature 60 °C

		40 x 4 DN 32 V/l = 0,80 l/m		50 x 4,5 DN 40 V/l = 1,32 l/m		63 x 3 DN 50 V/l = 2,04 l/m	
Q	m	v	R	v	R	v	R
W	kg/h	m/s	Pa/m	m/s	Pa/m	m/s	Pa/m
5.000	215,0	0,08	3,0	0,05	1,00	0,0	1
10.000	431,0	0,15	10,0	0,09	3,00	0,1	1
15.000	646,0	0,23	21,0	0,14	7,00	0,1	2
20.000	861,0	0,30	35,0	0,19	11,00	0,1	4
25.000	1077,0	0,38	52,0	0,23	16,00	0,2	6
30.000	1292,0	0,46	72,0	0,28	22,00	0,2	8
35.000	1507,0	0,53	95,0	0,32	29,00	0,2	10
40.000	1722,0	0,61	120,0	0,37	37,00	0,2	13
45.000	1938,0	0,68	148,0	0,42	45,00	0,3	16
50.000	2153,0	0,76	179,0	0,46	55,00	0,3	19
55.000	2368,0	0,84	212,0	0,51	65,00	0,3	23
60.000	2584,0	0,91	248,0	0,56	76,00	0,4	27
65.000	2799,0	0,99	286,0	0,60	87,00	0,4	31
70.000	3014,0	1,07	326,0	0,65	100,00	0,4	35
75.000	3230,0	1,14	369,0	0,70	113,00	0,5	40
80.000	3445,0	1,22	414,0	0,74	126,00	0,5	44
85.000	3660,0	1,29	462,0	0,79	141,00	0,5	50
90.000	3876,0	1,37	512,0	0,83	156,00	0,5	55
95.000	4091,0	1,45	564,0	0,88	172,00	0,6	60
100.000	4306,0	1,52	619,0	0,93	188,00	0,6	66
105.000	4522,0			0,97	206,00	0,6	72
110.000	4737,0			1,02	223,00	0,7	78
115.000	4952,0			1,07	242,00	0,7	85
120.000	5167,0			1,11	261,00	0,7	92
125.000	5383,0			1,16	281,00	0,8	99
130.000	5598,0			1,20	302,00	0,8	106
135.000	5813,0			1,25	323,00	0,8	113
140.000	6029,0			1,30	345,00	0,8	121
145.000	6244,0			1,34	367,00	0,9	129
150.000	6459,0			1,39	390,00	0,9	137
160.000	6890,0			1,48	438,00	1,0	154
170.000	7321,0			1,58	489,00	1,0	171
180.000	7751,0					1,1	190
190.000	8182,0					1,1	209
200.000	8612,0					1,2	230
210.000	9043,0					1,3	251
220.000	9474,0					1,3	273
230.000	9904,0					1,4	295
240.000	10335,0					1,4	319
250.000	10766,0					1,5	343
260.000	11196,0					1,6	368
270.000	11627,0					1,6	394
280.000	12057,0					1,7	421
290.000	12488,0					1,7	449
300.000	12919,0					1,8	477
310.000	13349,0					1,9	506
320.000	13780,0					1,9	536
330.000	14211,0					2,0	567
340.000	14641,0					2,0	599
350.000	15072,0					2,1	631

		75 x 7,5 DN 65 V/l = 2,83 l/m	
Q	m	v	R
W	kg/h	m/s	Pa/m
60.000	2584,0	0,26	12,0
80.000	3445,0	0,35	20,0
100.000	4306,0	0,43	30,0
120.000	5167,0	0,52	42,0
140.000	6029,0	0,61	55,0
160.000	6890,0	0,69	70,0
180.000	7751,0	0,78	87,0
200.000	8612,0	0,87	105,0
220.000	9474,0	0,95	125,0
240.000	10335,0	1,04	146,0
260.000	11196,0	1,13	169,0
280.000	12057,0	1,21	193,0
300.000	12919,0	1,30	218,0
320.000	13780,0	1,38	245,0
340.000	14641,0	1,47	274,0
360.000	15502,0	1,56	304,0
380.000	16364,0	1,64	335,0
400.000	17225,0	1,73	367,0
420.000	18086,0	1,82	401,0
440.000	18947,0	1,90	437,0
460.000	19809,0	1,99	473,0
480.000	20670,0		
500.000	21531,0		
520.000	22392,0		
540.000	23254,0		
560.000	24115,0		
580.000	24976,0		
600.000	25837,0		
800.000	34450,0		
820.000	35311,0		
840.000	36172,0		
860.000	37033,0		
880.000	37895,0		
900.000	38756,0		
920.000	39617,0		
940.000	40478,0		
960.000	41340,0		
980.000	42201,0		
1.000.000	43062,0		

Q = heat
m = mass flow
v = speed
R = pipe friction

uponor

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