



Belden
PPR SYSTEM

BELDEN

PPR SYSTEM

Hot and Cold potable
water installations



HYGIENIC &
NON TOXIC



NON CORROSIVE



HIGH TEMPERATURE
RATING



LIGHTWEIGHT



DURABILITY

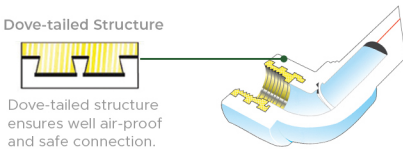
CHARACTERISTICS AND ADVANTAGES

Hot & Cold Waterline System

PP-R Pipes

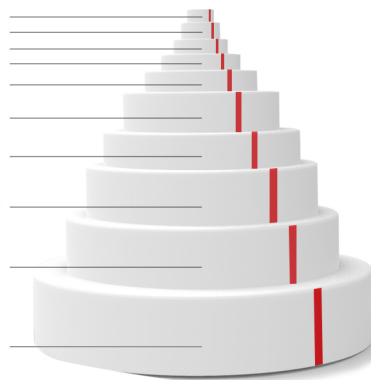
Unitec Belden PP-R pipes is made of high quality Polypropylene Random Co-polymer raw materials; it meets the European and ISO standard for waterline requirements. The hot melting homogeneity of the pipe guarantees no leakage with its 50 years usage. Unitec Belden PP-R plumbing pipe system is suitable for all different qualities of potable water application.

Dove-tailed Structure



Dove-tailed structure ensures well air-proof and safe connection.

20 mm x 3.4 mm	I series 2.5
25 mm x 4.2 mm	I series 2.5
35 mm x 5.2 mm	I series 2.5
40 mm x 6.7 mm	I series 2.5
50 mm x 8.3 mm	I series 2.5
63 mm x 10.5 mm	I series 2.5
75 mm x 12.5 mm	I series 2.5
90 mm x 15.0 mm	I series 2.5
110 mm x 18.3 mm	I series 2.5
160 mm x 26.6 mm	I series 2.5



PP-R Fittings

Unitec Belden PP-R fittings are constructed from high quality materials. All Fittings' performance meet the standards DIN 16962. Belden PP-R fittings' features are as follows:

- Adopted the western style design for aesthetic requirement.
- The greater radian design reduces the formation of water hammering caused by the sudden stop or quick hand-closure of valves and fixtures.
- The national standards for wall thickness and tolerance reduce the possibility of over-welding & other welding-related errors.

PP-R Fittings | Valve | Tools

SU STRAIGHT EQUAL CONNECTOR SIZE SU 20 SU 63 SU 25 SU 75 SU 32 SU 90 SU 40 SU 110 SU 50 SU 160	SR STRAIGHT REDUCER CONNECTOR SIZE SR 25 x 20 SR 32 x 20 - 25 SR 40 x 20 - 32 SR 50 x 20 - 40 SR 63 x 20 - 50 SR 75 x 32 - 63 SR 90 x 50 - 75 SR 110 x 50 - 90 SR 160 x 110	CP END CAP SIZE CP 20 CP 63 CP 25 CP 75 CP 32 CP 90 CP 40 CP 110 CP 50 CP 160	LL ELBOW EQUAL CONNECTOR SIZE LL 20 LL 63 LL 25 LL 75 LL 32 LL 90 LL 40 LL 110 LL 50 LL 160	LK ELBOW EQUAL CONNECTOR 45 SIZE LK 20 LK 63 LK 25 LK 75 LK 32 LK 90 LK 40 LK 110 LK 50 LK 160
LR ELBOW REDUCER CONNECTOR SIZE LR 25 x 20 LR 32 x 20 LR 32 x 25	TT TEE EQUAL CONNECTOR SIZE TT 20 TT 63 TT 25 TT 75 TT 32 TT 90 TT 40 TT 110 TT 50 TT 160	TR TEE REDUCER CONNECTOR SIZE TR 25 x 20 TR 32 x 20 - 35 TR 40 x 20 - 32 TR 50 x 20 - 40 TR 63 x 20 - 50 TR 75 x 20 - 63 TR 90 x 40 - 75 TR 110 x 63 - 90 TR 160 x 110	SF STRAIGHT FEMALE CONNECTOR SIZE SF 20 x 1/2" SF 25 x 1/2" SF 25 x 3/4" SF 32 x 1" SF 40 x 1 1/4" SF 50 x 1 1/2" SF 63 x 2"	SM STRAIGHT MALE CONNECTOR SIZE SM 20 x 1/2" SM 25 x 1/2" SM 25 x 3/4" SM 32 x 1" SM 40 x 1 1/4" SM 50 x 1 1/2" SM 63 x 2"
LF ELBOW FEMALE CONNECTOR SIZE LF 20 x 1/2" LF 25 x 1/2" LF 25 x 3/4" LF 32 x 1" LF 40 x 1 1/4" LF 50 x 1 1/2" LF 63 x 2"	TF TEE FEMALE CONNECTOR SIZE TF 20 x 1/2" TF 25 x 1/2" TF 25 x 3/4" TF 32 x 1" TF 40 x 1 1/2" TF 50 x 1 1/2" TF 63 x 2"	UPM UNION PATENTE METAL JOINT SIZE UPM 20 UPM 25 UPM 32	UM UNION MALE ADAPTOR SIZE UM 20 x 1/2" UM 25 x 3/4" UM 32 x 1" UM 40 x 1 1/4" UM 50 x 1 1/2" UM 63 x 2"	UF UNION FEMALE ADAPTOR SIZE UF 20 x 1/2" UF 25 x 3/4" UF 32 x 1" UF 40 x 1 1/4" UF 50 x 1 1/2" UF 63 x 2"
FC FLANGE CORE SIZE FC 40 FC 50 FC 63 FC 75 FC 90 FC 110 FC 160	FM FLANGE METAL RING ADAPTOR SIZE FM 40 FM 50 FM 63 FM 75 FM 90 FM 110 FM 160	SV STOP VALVE SIZE SV 20 SV 25 SV 32 SV 40 SV 50 SV 63	UBV UNION BALL VALVE SIZE UBV 20 UBV 25 UBV 32	PP-R TOOL FUSION MACHINE SIZE PPR TOOL 020 - 032 020 - 063 075 - 110 160

Heating and Cooling Time

Outer Diameter (mm)	Heating Time (sec)	Welding Time (sec)	Cooling Time (min)
20	5	4	2
25	7	4	2
32	8	6	4
40	12	6	4
50	18	6	4
63	24	8	6
75	30	8	8
90	40	8	8
110	50	10	8
160	60	15	10

Installation Instruction for PPR fittings

1. Remove any dust or dirt on the pipe. Cut the pipe perpendicularly to its axis.

2. Mark the inserting depth on the pipe using a soft tip marker or pen.

3. Fix the proper matrix of the pipe and fitting on the welding tool. Hold steadily throughout the heating time. The optimum temperature is 260 ± 10°C.

4. After heating, extract the pipe and fitting from the matrix and join the pipe gradually to the fitting. Avoid rotating them, respecting the insertion depth.

5. Let the welded pipe and fitting cool at ambient temperature (never plunge into water to cool them). After welding, thoroughly clean the matrix.

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Philippine Green Building Council