

PP-R

Aquasystem

Piping Systems



PP-R Aquasystem Piping Systems

PP-R Aquasystem Piping Systems is a lightweight piping system made of PP-R copolymer material, with high mechanical strength and resistance to corrosion.

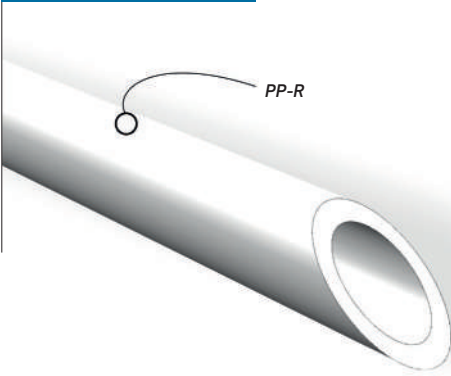
- Provides high resistance to extreme temperatures and pressure. PP-R pipes and fittings are produced in accordance with TS EN 15874-1, TS EN 15874-2, TS EN 15874-3, DIN 8077, DIN 8078, TS 13715, DIN 18836 standards.
 - Pipes and fittings available in the diameter range of d20-d200.
 - High chemical resistance, no corrosion.
 - Fast, easy and practical installation by using socket, butt and electrofusion welding.
 - White, grey and green options available.
 - Hygienic and environmentally-friendly.
- GF Hakan Aquasystem PP-R Piping Systems are produced in 6 different types depending upon the areas of use and customer expectations:
 - PP-R Standard Piping Systems (PN10-PN16-PN20)
 - PP-R Glass Fiber Reinforced Piping Systems (PN20-PN25)
 - PP-R Glass Fiber Reinforced Climafaser Piping Systems (PN10)
 - PP-R Stable External Aluminum Foil Piping Systems (PN25)
 - PP-R Aluplus Stable Middle Foil Piping Systems (PN20)
 - PP-R UV-Resistant Piping Systems (PN20-PN25)

+ Fields of Application

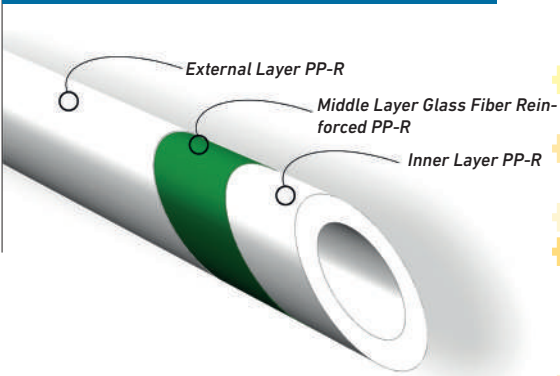
- Central heating systems
- Hot and cold water systems
- Drinking water and treated water supply systems
- Industrial Piping Systems (Transfer and discharge of chemicals)
- Air conditioner systems
- Solar Collectors



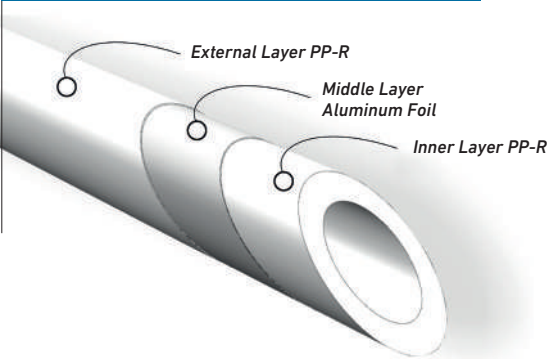
Standard PP-R Pipes



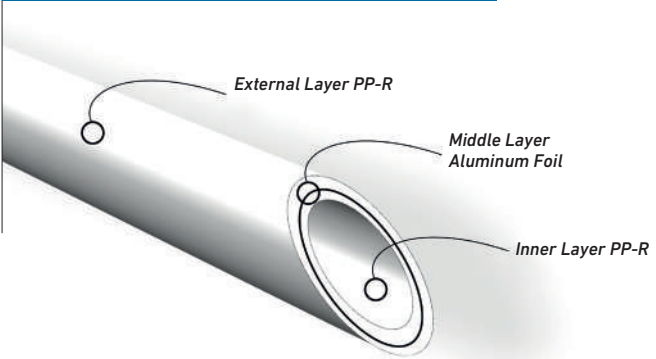
Glass Fiber Reinforced Composite PP-R Pipe



External Aluminum Foil Composite PP-R Pipe



Middle Aluminum Foil Composite PP-R Pipe



+ Technical Properties

Pipe Structure	One Layer-Standard Pipes Multi-Layer: Glass Fiber Reinforced Composite Pipes/Aluminum Foil Composite Pipes
Diameters [mm]	d20, d25, d32, d40, d50, d63, d75, d90, d110, d125, d160, d200
Pressure Classes:	Standard PPR Pipes PN10 (SDR11), PN16 (SDR7.4), PN20 (SDR6) Glass Fiber Reinforced Composite Pipes: PN10 (SDR11), PN20 (SDR7.4), PN25 (SDR6) External Aluminum Foil Composite Pipes: PN25 (SDR6) Middle Aluminum Foil Composite Pipes: PN20 (SDR6)
Pipe Length [mm]	4000 mm
Joining Methods	Socket Fusion Welding, Butt-Welding, Electrofusion Welding, Mechanical Connection, Flange Connection
Color	White, Green, Grey (Upon Customer Request)
Chemical Resistance	Resistant to organic and inorganic chemical environments for pH values between 2 and 12
Installation Temperature	Minimum: +5°C Maximum: +40°C
Operating Temperature	Standard PPR Pipes: +5°C - +70°C Glass Fiber Reinforced Composite Pipes: +5°C - +95°C Aluminum Foil Composite Pipes: +5°C - +95°C
Application Class	B (Building)
Standards	EN15874-1/2/3, DIN 8077-78
Thermal Expansion Coefficient	Standard Pipes: 0.15 mm/m°K Glass Fiber Reinforced Composite Pipes: 0.035 mm/m°K Aluminum Foil Composite Pipes: 0.030 mm/m°K
Thermal Conductivity Coefficient	0.24 W/m°K
Approvals and Certificates	Spain: AENOR, UK: WRAS, LLYOD's, Germany: DVGW, SKZ, HYGIENE, Turkey: TSE, Ukraine: HYGIENE, SEPRO, Russia: GOST, HYGIENE, Bulgaria: BULGARKONTROLA

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PP-R Standard Pipe - PN20 (SDR6)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4000002000121	4002002000121	Bundle	100
25	4000002500221	4002002500221	Bundle	80
32	4000003200321	4002003200321	Bundle	60
40	4000004000421	4002004000421	Bundle	40
50	4000005000521	4002005000521	Bundle	20
63	4000006300621	4002006300621	Bundle	16
75	4000007500721	4002007500721	Bundle	12
90	4000009000821	4002009000821	Bundle	8
110	4000011000921	4002011000921	Bundle	4
125	4000012501021	4002012501021	Bundle	4
160	4000016001021	4002016001021	Bundle	4
200	4000020000221	4002020000221	Bundle	4

PP-R Glass Fiber Reinforced Pipe - PN25 (SDR6)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4200002002021	4202002002021	Bundle	100
25	4200002502121	4202002502121	Bundle	80
32	4200003202221	4202003202221	Bundle	60
40	4200004002321	4202004002321	Bundle	40
50	4200005002421	4202005002421	Bundle	20
63	4200006302521	4202006302521	Bundle	16
75	4200007506521	4202007506521	Bundle	12
90	4200009006621	4202009006621	Bundle	8
110	4200011006421	4202011006421	Bundle	4
125	4200012500221	4202012500221	Bundle	4
160	4200016000221	4202016000221	Bundle	4

PP-R Standard Pipe - PN16 (SDR7,4)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4000002004021	4000002004021	Bundle	100
25	4000002504121	4000002504121	Bundle	80
32	4000003204221	4000003204221	Bundle	60
40	4000004004321	4000004004321	Bundle	40
50	4000005004421	4000005004421	Bundle	20
63	4000006304521	4000006304521	Bundle	16
75	4000007504621	4000007504621	Bundle	12
90	4000009004721	4000009004721	Bundle	8
110	4000011004821	4000011004821	Bundle	4
125	4000012504821	4000012504821	Bundle	4
160	4000016000921	4000016000921	Bundle	4
200	4000020001121	4000020001121	Bundle	4

PP-R Glass Fiber Reinforced Pipe - PN20 (SDR7,4)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4200002000121	4202002000121	Bundle	100
25	4200002500221	4202002500221	Bundle	80
32	4200003200321	4202003200321	Bundle	60
40	4200004000421	4202004000421	Bundle	40
50	4200005000521	4202005000521	Bundle	20
63	4200006300621	4202006300621	Bundle	16
75	4200007500721	4202007500721	Bundle	12
90	4200009000821	4202009000821	Bundle	8
110	4200011000921	4202011000921	Bundle	4
125	4200012500121	4202012500121	Bundle	4
160	4200016000121	4202016000121	Bundle	4

PP-R Standard Pipe - PN10 (SDR11)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4000002002021	4002002002021	Bundle	100
25	4000002502121	4002002502121	Bundle	80
32	4000003202221	4002003202221	Bundle	60
40	4000004002321	4002004002321	Bundle	40
50	4000005002421	4002005002421	Bundle	20
63	4000006302521	4002006302521	Bundle	16
75	4000007502621	4002007502621	Bundle	12
90	4000009002721	4002009002721	Bundle	8
110	4000011002821	4002011002821	Bundle	4
125	4000012502921	4002012502921	Bundle	4
160	4000016000821	4002016000821	Bundle	4
200	4000020000121	4002020000121	Bundle	4

PP-R Glass Fiber Reinforced Air Conditioner Pipe - PN16 (SDR 11)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20 *	-	4202002030021	Bundle	100
25 *	-	4202002530021	Bundle	80
32	-	4202003230121	Bundle	60
40	-	4202004030021	Bundle	40
50	-	4202005030021	Bundle	20
63	-	4202006330121	Bundle	16
75	-	4202007530021	Bundle	12
90	-	4202009030021	Bundle	8
110	-	4202011030021	Bundle	4
125	-	4202012530021	Bundle	4

*For d20 and d25 diameter products, SDR7.4 (PN20) Glass Fiber Reinforced Composite Pipes are suggested.

Note: Our climafaser pipes are green.

PP-R UV Resistant Standard Pipe - PN20 (SDR6)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4000002010021	4002002010021	Bundle	100
25	4000002510021	4002002510021	Bundle	80
32	4000003210021	4002003210021	Bundle	60
40	4000004010021	4002004010021	Bundle	40
50	4000005010021	4002005010021	Bundle	20
63	4000006310021	4002006310021	Bundle	16

PP-R External Aluminum Foiled Pipe - PN25 (SDR6)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4102002015021	4102002015021	Bundle	100
25	4102002515021	4102002515021	Bundle	80
32	4102003215021	4102003215021	Bundle	40
40	4102004015021	4102004015021	Bundle	40
50	4102005015021	4102005015021	Bundle	20
63	4102006315021	4102006315021	Bundle	16

PP-R UV Resistant External Aluminum Foiled Pipe - PN25 (SDR6)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4100002000121	4102002000121	Bundle	100
25	4100002500221	4102002500221	Bundle	80
32	4100003200321	4102003200321	Bundle	40
40	4100004000421	4102004000421	Bundle	40
50	4100005000521	4102005000521	Bundle	20
63	4100006300621	4102006300621	Bundle	16
75	4100007500721	4102007500721	Bundle	12
90	4100009000821	4102009000821	Bundle	8
110	4100011000921	4102011000921	Bundle	4

PP-R Middle Aluminum Foiled Pipe- PN20 (SDR6)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4100002010021	4102002010021	Bundle	100
25	4100002510021	4102002510021	Bundle	80
32	4100003210021	4102003210021	Bundle	40
40	4100004010021	4102004010021	Bundle	40
50	4100005010021	4102005010021	Bundle	20
63	4100006310021	4102006310021	Bundle	16

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PP-R Elbow 45°



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300102000121	4302102000121	Cartonbox	400
15	4300102500221	4302102500221	Cartonbox	300
32	4300103200321	4302103200321	Cartonbox	175
40	4300104000421	4302104000421	Cartonbox	75
50	4300105000521	4302105000521	Cartonbox	40
63	4300106300621	4302106300621	Cartonbox	20
75	4300107501221	4302107501221	Cartonbox	16
90	4300109001322	4302109001322	Cartonbox	6
110	4300111001422	4302111001422	Cartonbox	4
125	4300112501522	4302112501522	Cartonbox	2
160	4300116001621	4302116001621	Cartonbox	2

PP-R Female Elbow (BSPT-Rp)



Dia. (mm)	Code - Green	Packing	
		Type	Pc
20-1/2"	4302102030021	Cartonbox	200
20-3/4"	4302102030121	Cartonbox	200
25-1/2"	4302102530021	Cartonbox	175
25-3/4"	4302102530121	Cartonbox	140
32-3/4"	4302103230021	Cartonbox	75
32-1"	4302103230121	Cartonbox	75

PP-R Elbow 90°



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300102000721	4302102000721	Cartonbox	400
25	4300102500821	4302102500821	Cartonbox	250
32	4300103200921	4302103200921	Cartonbox	125
40	4300104001021	4302104001021	Cartonbox	75
50	4300105001121	4302105001121	Cartonbox	40
63	4300106301221	4302106301221	Cartonbox	20
75	4300107501321	4302107501321	Cartonbox	16
90	4300109001421	4302109001421	Cartonbox	8
110	4300111001521	4302111001521	Cartonbox	3
125	4300112501622	4302112501622	Cartonbox	2
160	4300116001421	4302116001421	Cartonbox	2

* Butt fusion type please contact with Product Manager

Male Elbow PP-R (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300102007021	4302102007021	Cartonbox	200
20-3/4"	4300102007121	4302102007121	Cartonbox	200
25-1/2"	4300102507221	4302102507221	Cartonbox	180
25-3/4"	4300102507321	4302102507321	Cartonbox	100
32-3/4"	4300103207421	4302103207421	Cartonbox	75
32-1"	4300103207521	4302103207521	Cartonbox	80

PP-R Female Elbow (BSPT-Rp)



Dia. (mm)	Code - Green	Packing	
		Type	Pc
20-1/2"	4302102030221	Cartonbox	200
20-3/4"	4302102030321	Cartonbox	200
25-1/2"	4302102530221	Cartonbox	180
25-3/4"	4302102530321	Cartonbox	100
32-3/4"	4302103230221	Cartonbox	75
32-1"	4302103230321	Cartonbox	80

PP-R M to F Elbow 90°



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300102005021	4302102005021	Cartonbox	350
25	4300102505121	4302102505121	Cartonbox	200

PP-R Female Elbow (BSPP-G)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300102006021	4302102006021	Cartonbox	200
20-3/4"	4300102006121	4302102006121	Cartonbox	200
25-1/2"	4300102506221	4302102506221	Cartonbox	175
25-3/4"	4300102506321	4302102506321	Cartonbox	140
32-3/4"	4300103206421	4302103206421	Cartonbox	75
32-1"	4300103206521	4302103206521	Cartonbox	75

PP-R End Cap



Dia. (mm)	Code	Packing	
		Type	Pc
20	4300902006021	Cartonbox	1000
25	4300902506121	Cartonbox	600
32	4300903206221	Cartonbox	300
40	4300904006321	Cartonbox	175
50	4300905006421	Cartonbox	100
63	4300906306521	Cartonbox	50
75	4300907506621	Cartonbox	25
90	4300909006821	Cartonbox	18
110	4300911006721	Cartonbox	9

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PP-R Female Elbow - (BSPP-G)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300102006021	4302102006021	Cartonbox	200
20-3/4"	4300102006121	4302102006121	Cartonbox	200
25-1/2"	4300102506221	4302102506221	Cartonbox	175
25-3/4"	4300102506321	4302102506321	Cartonbox	140
32-3/4"	4300103206421	4302103206421	Cartonbox	75
32-1"	4300103206521	4302103206521	Cartonbox	75

PP-R Female Elbow (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-3/4"	4300102008121	4302102008121	Cartonbox	100
25-1/2"	4300102508221	4302102508221	Cartonbox	100
25-3/4"	4300102508321	4302102508321	Cartonbox	100

PP-R Backplate Elbow Male (BSPP-G)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-3/4"	4300102509221	4302102509221	Cartonbox	100
25-3/4"		4302102530621	Cartonbox	100



PP-R Reducing Elbow

Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-25	4300402011021	4302402011021	Cartonbox	250
25-32	4300402511121	4302402511121	Cartonbox	150

PP-R Female Coupler (Round) - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300702030021	4302702030021	Cartonbox	325
20-3/4"	4300702030121	4302702030121	Cartonbox	250
25-1/2"	4300702530221	4302702530221	Cartonbox	225
25-3/4"	4300702530321	4302702530321	Cartonbox	225
32-1"	4300703230421	4302703230421	Cartonbox	125
32-3/4"	4300703225321	4302703225321	Cartonbox	100



PP-R Socket

Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300502020021	4302502020021	Cartonbox	500
25	4300502520121	4302502520121	Cartonbox	350
32	4300503220221	4302503220221	Cartonbox	200
40	4300504020321	4302504020321	Cartonbox	125
50	4300505020421	4302505020421	Cartonbox	70
63	4300506320521	4302506320521	Cartonbox	45
75	4300507520621	4302507520621	Cartonbox	30
90	4300509020721	4302509020721	Cartonbox	20
110	4300511020821	4302511020821	Cartonbox	10
125	4300512520922	4302512520921	Cartonbox	-
160	4300516000121	4302516000121	Cartonbox	-

PP-R Female Coup (Round) - (BSPT-Rp)



Dia. (mm)	Code - Green	Packing	
		Type	Pc
20-1/2"	4302702040021	Cartonbox	-
20-3/4"	4302702040121	Cartonbox	-
25-1/2"	4302702540021	Cartonbox	-
25-3/4"	4302702540121	Cartonbox	-
32-3/4"	4302703240021	Cartonbox	-
32-1"	4302703240221	Cartonbox	-



PP-R Male Coupler (Round) - (BSPT-R)

Dia. (mm)	Code - Green	Packing	
		Type	Pc
20-1/2"	4302702040221	Cartonbox	250
20-3/4"	4302702040321	Cartonbox	200
25-1/2"	4302702540221	Cartonbox	200
25-3/4"	4302702540321	Cartonbox	200
32-3/4"	4302703240121	Cartonbox	100
32-1"	4302703240321	Cartonbox	100

PP-R Male Coupler (Round) - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300702032021	4302702032021	Cartonbox	250
20-3/4"	4300702032121	4302702032121	Cartonbox	200
25-1/2"	4300702532221	4302702532221	Cartonbox	200
25-3/4"	4300702532321	4302702532321	Cartonbox	200
32-3/4"	4300703227321	4302703227321	Cartonbox	100
32-1"	4300703232421	4302703232421	Cartonbox	100



PP-R Female Coupler (Hexagonal) - (BSPT-Rp)

Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
32-1"	-	4302703230621	Cartonbox	80
40-1.1/4"	-	4302704040021	Cartonbox	50
50-1.1/2"	-	4302705040021	Cartonbox	40
63-2"	-	4302706340021	Cartonbox	20
75-2.1/2"	-	4302707525621	Cartonbox	16
90-3"	-	4302709028621	Cartonbox	10
110-4"	-	4302711025721	Cartonbox	4

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Reducer PP-R



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-20	4300402510021	4302402510021	Cartonbox	500
32-20	4300403210121	4302403210121	Cartonbox	400
32-25	4300403210221	4302403210221	Cartonbox	350
40-20	4300404010321	4302404010321	Cartonbox	250
40-25	4300404010421	4302404010421	Cartonbox	250
40-32	4300404010521	4302404010521	Cartonbox	175
50-20	4300405010621	4302405010621	Cartonbox	150
50-25	4300405010721	4302405010721	Cartonbox	150
50-32	4300405010821	4302405010821	Cartonbox	150
50-40	4300405010921	4302405010921	Cartonbox	100
63-25	4300406311021	4302406311021	Cartonbox	75
63-32	4300406311121	4302406311121	Cartonbox	75
63-40	4300406311221	4302406311221	Cartonbox	75
63-50	4300406311321	4302406311321	Cartonbox	50
75-50	4300407511421	4302407511421	Cartonbox	40
75-63	4300407511521	4302407511521	Cartonbox	40
90-50	4300409011521	4302409011521	Cartonbox	20
90-63	4300409011621	4302409011621	Cartonbox	20
90-75	4300409011721	4302409011721	Cartonbox	16
110-63	4300411011721	4302411011721	Cartonbox	16
110-75	4300411011821	4302411011821	Cartonbox	16
110-90	4300411011921	4302411011921	Cartonbox	16
125-75	4300412512022	4302412512022	Cartonbox	12
125-90	4300412512122	4302412512122	Cartonbox	12
125-110	4300412512222	4302412512222	Cartonbox	5
160-110	4300416011921	4302416011921	Cartonbox	1

PP-R Female Coupler (Hexagonel) (BSPP-G)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
32-1"	4300703225021	4302703225021	Cartonbox	80
40-1.1/4"	4300704025121	4302704025121	Cartonbox	50
50-1.1/2"	4300705025221	4302705025221	Cartonbox	40
63-2"	4300706325321	4302706325321	Cartonbox	20
75-2.1/2"	4300707525421	4302707525421	Cartonbox	16
90-3"	4300709025621	4302709025621	Cartonbox	10
110-4"	4300711025521	4302711025521	Cartonbox	6

PP-R Gate Valve



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300802035021	4300802035021	Cartonbox	75
25-3/4"	4300802535121	4300802535121	Cartonbox	60
32-1"	4300803235221	4300803235221	Cartonbox	40

PP-R Ball Valve



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300802042522	4302802042522	Cartonbox	70
25	4300802542622	4302802542622	Cartonbox	50
32	4300803242722	4302803242722	Cartonbox	30
40	4300804043122	4302804043122	Cartonbox	15
50	4300805043222	4302805043222	Cartonbox	12
63	4300806343322	4302806343322	Cartonbox	8
75	4300807543422	4302807543422	Cartonbox	4
90	4300809043522	4302809043522	Cartonbox	2

Note: Only for cold water applications.

PP-R Male Coupler (Hexagonel) - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
32-1"	4300703227021	4302703227021	Cartonbox	80
40-1.1/4"	4300704027121	4302704027121	Cartonbox	50
50-1.1/2"	4300705027221	4302705027221	Cartonbox	40
63-2"	4300706327321	4302706327321	Cartonbox	20
75-2.1/2"	4300707527421	4302707527421	Cartonbox	16
90-3"	4300709027521	4302709027521	Cartonbox	10
110-4"	4300711027621	4302711027621	Cartonbox	4

PP-R Male Coupler (Hexagonel) - (BSPT-R)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
32-1"	-	4302703230321	Cartonbox	80
40-1.1/4"	-	4302704040121	Cartonbox	50
50-1.1/2"	-	4302705040121	Cartonbox	40
63-2"	-	4302706340121	Cartonbox	20
75-2.1/2"	-	4302707527621	Cartonbox	16
90-3"	-	4302709029621	Cartonbox	10
110-4"	-	4302711027821	Cartonbox	4

Ball Valve New (Welt-in)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300802042822	4302802042822	Cartonbox	100
25	4300802542922	4302802542922	Cartonbox	70
32	4300803243022	4302803243022	Cartonbox	45
40	4300804043622	4302804043622	Cartonbox	25
50	4300805043722	4302805043722	Cartonbox	20
63	4300806343822	4302806343822	Cartonbox	15
75	4300807543322	4302807543322	Cartonbox	8
90	4300809043522	4302809043522	Cartonbox	2

PP-R Aquasystem

PP-R Gate Valve



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300802040021	4302802040021	Cartonbox	50
25-3/4"	4300802540221	4302802540221	Cartonbox	40
32-1"	4300803240421	4302803240421	Cartonbox	40

PP-R Chromium Valve Long



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300802040121	4302802040121	Cartonbox	50
25-3/4"	4300802540321	4302802540321	Cartonbox	40
32-1"	4300803240521	4302803240521	Cartonbox	40

PP-R Lux Chromium Valve Long



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300802060721	4302802060721	Cartonbox	50
25-3/4"	4300802560821	4302802560821	Cartonbox	40
32-1"	4300803240621	4302803240621	Cartonbox	40

PP-R Crossover w Socket Short



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902000321	4302902000321	Cartonbox	200
25	4300902500321	4302902500321	Cartonbox	125

PP-R Crossover w Socket



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902000121	4302902000121	Cartonbox	120
25	4300902500221	4302902500221	Cartonbox	80
32	4300903200321	4302903200321	Cartonbox	30

PP-R Boiler Set



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
-	4300900050022	-	Cartonbox	8
-	4300900050122	-	Cartonbox	8

PP-R Backplate Elbow Fende



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902002021	4302902002021	Cartonbox	150
25-1/2"	-	4302102530421	Cartonbox	-
20-1/2"	-	4302902030721	Cartonbox	-
25-3/4"	-	4302102530621	Cartonbox	-
20-1/2"	-	4302902030621	Cartonbox	-

PP-R Male Tee - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902012021	4302902004021	Cartonbox	150
20-1/2"	-	4302902030221	Cartonbox	-

PP-R Female Tee - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902010021	4302902010021	Cartonbox	160
20-3/4"	4300902010121	4302902010121	Cartonbox	160
25-1/2"	4300902510221	4302902510221	Cartonbox	120
25-3/4"	4300902510321	4302902510321	Cartonbox	120
32-3/4"	4300903210421	4302903210421	Cartonbox	60
32-1"	4300903210521	4302903210521	Cartonbox	70
20-1/2"	-	4302902030021	Cartonbox	-
20-3/4"	-	4302902030121	Cartonbox	-
25-1/2"	-	4302902530021	Cartonbox	-
25-3/4"	-	4302902530121	Cartonbox	-
32-3/4"	-	4302903230021	Cartonbox	-
32-1"	-	4302903230121	Cartonbox	-

PP-R Male Tee - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902013021	4302902013021	Cartonbox	300
25-3/4"	4300902513221	4302902513221	Cartonbox	200
25-1"	4300902513321	4302902513321	Cartonbox	150
20-1/2"	-	4302902013021	Cartonbox	-
25-3/4"	-	4302902513221	Cartonbox	-
25-1"	-	4302902513321	Cartonbox	-

PP-R Aquasystem

PP-R Blind Cap



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902014021	4302902014021	Cartonbox	700
25	4300902514121	4302902514121	Cartonbox	500

Pipe Clamp D.



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902025521	4302902025521	Cartonbox	400
25	4300902525621	4302902525621	Cartonbox	250
32	4300903225722	4302903225722	Cartonbox	200

PP-R Union



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902028021	4302902028021	Cartonbox	200
25	4300902528121	4302902528121	Cartonbox	125
32	4300903228221	4302903228221	Cartonbox	80
40	4300904028321	4302904028321	Cartonbox	50
50	4300905028421	4302905028421	Cartonbox	30
63	4300906328521	4302906328521	Cartonbox	20
75	4300907528621	4302907528621	Cartonbox	16
90	4300909032521	4302909032521	Cartonbox	8

Note: Only for cold water applications.

PP-R Check Valve



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902031022	4302902031022	Cartonbox	80
25	4300902531122	4302902531122	Cartonbox	50
32	4300903231222	4302903231222	Cartonbox	40
40	4300904031322	4302904031322	Cartonbox	24
50	4300905031422	4302905031422	Cartonbox	15
63	4300906331522	4302906331522	Cartonbox	8
75	4300907531622	4302907531622	Cartonbox	4
90	4300909031722	4302909031722	Cartonbox	2

Note: Only for cold water applications.

PP-R Tee



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902008021	4302902008021	Cartonbox	250
25	4300902508121	4302902508121	Cartonbox	150
32	4300903208221	4302903208221	Cartonbox	100
40	4300904008321	4302904008321	Cartonbox	50
50	4300905008421	4302905008421	Cartonbox	30
63	4300906308521	4302906308521	Cartonbox	20
75	4300907508621	4302907508621	Cartonbox	10
90	4300909008721	4302909008721	Cartonbox	6
110	4300911008821	4302911008821	Cartonbox	3
125	4300912508922	4302912508922	Cartonbox	2
160	4300916009021	4302916009021	Cartonbox	1

PP-R Pipe Sharpener Metal



Dia. (mm)	Code - White	Packing	
		Type	Pc
20-25	4301902040082	Cartonbox	-
32-40	4301903240182	Cartonbox	50
50-63	4301905040282	Cartonbox	15
75-90	4301907540382	Cartonbox	8

PP-R Pipe Sharpener Plastic



Dia. (mm)	Code - White	Packing	
		Type	Pc
20-25	4300902041022	Cartonbox	70
32-40	4300903241122	Cartonbox	50

PP-R Union Socket Fml



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-3/4"	4300902503321	4302902503321	Cartonbox	150
32-1"	4300903203521	4302903203521	Cartonbox	150
20-1/2"	-	4302702030421	Cartonbox	-
25-3/4"	-	4302702530021	Cartonbox	-
32-1"	-	4302703230021	Cartonbox	-
20-3/4"	-	4302902030321	Cartonbox	-
40-1.1/4"	4300904005021	4302904005021	Cartonbox	50
50-1.1/2"	4300905005121	4302905005121	Cartonbox	30
63-2"	4300906305221	4302906305221	Cartonbox	20

PP-R Transition Joint Hexagonal Female - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902003021	4302902003021	Cartonbox	300
20-3/4"	4300902003121	4302902003121	Cartonbox	150

PP-R Transition Joint Hexagonal Male - (BSPPG)



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902004021	4302902004021	Cartonbox	300
20-3/4"	4300902004121	4302902004121	Cartonbox	150

BatBag DD PP-R



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902002121	4302902002121	Cartonbox	150

PP-R Aquasystem

PP-R Reducing Tee



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-20-20	4300902520021	4302902520021	Cartonbox	200
25-20-25	4300902520121	4302902520121	Cartonbox	175
32-20-20	4300903220221	4302903220221	Cartonbox	125
32-20-25	4300903220321	4302903220321	Cartonbox	125
32-20-32	4300903220421	4302903220421	Cartonbox	100
32-25-20	4300903220521	4302903220521	Cartonbox	125
32-25-32	4300903220621	4302903220621	Cartonbox	100
40-20-40	4300904020721	4302904020721	Cartonbox	50
40-25-40	4300904020821	4302904020821	Cartonbox	50
40-32-40	4300904020921	4302904020921	Cartonbox	50
50-20-50	4300905021021	4302905021021	Cartonbox	40
50-25-50	4300905021221	4302905021221	Cartonbox	30
50-32-50	4300905021321	4302905021321	Cartonbox	30
50-40-50	4300905021421	4302905021421	Cartonbox	30
63-20-63	4300906321321	4302906321321	Cartonbox	24
63-25-63	4300906321421	4302906321421	Cartonbox	24
63-32-63	4300906321521	4302906321521	Cartonbox	24
63-40-63	4300906321621	4302906321621	Cartonbox	16
63-50-63	4300906321721	4302906321721	Cartonbox	16
75-63-75	4300907521722	4302907521722	Cartonbox	10
75-32-75	4300907521822	4302907521822	Cartonbox	10
75-40-75	4300907521922	4302907521922	Cartonbox	10
90-63-90	4300909021622	4302909021622	Cartonbox	4
90-75-90	4300909021722	4302909021722	Cartonbox	6
110-63-110	4300911021522	4302911021522	Cartonbox	2
110-75-110	4300911021622	4302911021622	Cartonbox	2

PP-R Reducing Cross



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902560222	-	Cartonbox	150
32-25	4300903260322	4302903260322	Cartonbox	75
40-32	4300904060422	4302904060422	Cartonbox	40

PP-R Cross



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902060022	4302902060022	Cartonbox	200
25	4300902560122	4302902560122	Cartonbox	150
32	4300903260222	4302903260222	Cartonbox	75
40	4300904060322	4302904060322	Cartonbox	40

Bpl. Elbow D.Fml PP-R



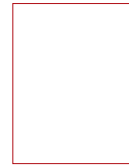
Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-1/2"	4300902502121	4302902502121	Cartonbox	80

PP-R Pipe Clamp Single



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20	4300902025021	4302902025021	Cartonbox	1000
25	4300902525121	4302902525121	Cartonbox	700
32	4300903225221	4302903225221	Cartonbox	500
40	4300904025322	4302904025322	Cartonbox	1000
50	4300905025422	4302905025422	Cartonbox	100
63	4300906331622	4302906331622	Cartonbox	100
75	4300907532022	4302907532022	Cartonbox	200
90	4300909032022	4302909032022	Cartonbox	100
110	4300911009022	4302911009022	Cartonbox	100

Socket PP-R Grn EF



Dia. (mm)	Code - Green	Packing	
		Type	Pc
20	4302902091522	Cartonbox	150
25	4302902591522	Cartonbox	130
32	4302903291522	Cartonbox	80
40	4302904091522	Cartonbox	50
50	4302905091522	Cartonbox	30
63	4302906391522	Cartonbox	20
75	4302906391522	Cartonbox	20
90	4302907591522	Cartonbox	14
110	4302909091522	Cartonbox	10
125	4302911091522	Cartonbox	3
160	4302912591522	Cartonbox	3
160	4302916091522	Cartonbox	2

Pipe Clamp Single PP-R



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-3/4"	4300902504321	4302902504321	Cartonbox	150
32-1"	4300903204521	4302903204521	Cartonbox	125
20-1/2"	-	4302702030521	Cartonbox	-
25-3/4"	-	4302702505321	Cartonbox	-
25-3/4"	-	4302702530121	Cartonbox	-
32-1"	-	4302703230121	Cartonbox	-
20-3/4"	-	4302902030421	Cartonbox	-
40-1.1/4"	-	4302904030121	Cartonbox	-
50-1.1/2"	-	4302905030121	Cartonbox	-
63-2"	-	4302906330121	Cartonbox	-

PP-R Aquasystem

Union Socket Male PP-R



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
40-1.1/4"	4300904005321	4302904005321	Cartonbox	50
50-1.1/2"	4300905005421	4302905005421	Cartonbox	30
63-2"	4300906305521	4302906305521	Cartonbox	20

PP-R Distribution Manifold



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
20-1/2"	4300902002321	4302902002321	Cartonbox	15

PP-R Double Male Faucet Connection



Dia. (mm)	Code	Packing	
		Type	Pc
25-1/2"	4300902502021	Parcel	40

PP-R Pipe Welding Mould



Dia. (mm)	Code - White	Packing	
		Type	Pc
20	4301902045082	Cartonbox	300
25	4301902545182	Cartonbox	15
32	4301903245282	Cartonbox	200
40	4301904045382	Cartonbox	40
50	4301905045482	Cartonbox	70
63	4301906345582	Cartonbox	45
75	4301907545682	Cartonbox	30
90	4301909045782	Cartonbox	5
110	4301911045882	Cartonbox	5
160	4301916046082	Cartonbox	-

PP-R Faucet Connection- Bidet



Dia. (mm)	Code	Packing	
		Type	Pc
20-1/2"	4300902012121	Parcel	15

PP-R Omega



Dia. (mm)	Code	Packing	
		Type	Pc
20	4300902007022	Cartonbox	15
25	4300902507122	Cartonbox	10
32	4300903207222	Cartonbox	7
40	4300904007322	Cartonbox	5

Bpl. Elbow Fml 2Pin PP-R



Dia. (mm)	Code - White	Code - Green	Packing	
			Type	Pc
25-1/2"	4300902503121	4302902503121	Cartonbox	50
20-1/2"	4300902011021	4302902011021	Cartonbox	50

PP-R Aquasystem

PP-R Pipe Cutter



Dia. (mm)	Code - White	Packing	
		Type	Pc
-	4301900043082	Parcel	16

Welding Machine



Dia. (mm)	Code - White	Packing	
		Type	Pc
-	4301900044082	Cartonbox	1
-	4301900044282	Cartonbox	1

Welding Machine



Dia. (mm)	Code - White	Packing	
		Type	Pc
75-100	4301900044382	Cartonbox	1
-	4301900044682	Cartonbox	1
-	4301900044782	Cartonbox	1
-	4301900046082	Cartonbox	1