RHELDOR®

PP-R PIPES & FITTINGS





PP-R PİPES



PP-R PIPE PN10 - SDR 11

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN10	Ø20	120	METER
HELD-BORD-25PN10	Ø25	80	METER
HELD-BORD-32PN10	Ø32	60	METER
HELD-BORD-40PN10	Ø40	40	METER
HELD-BORD-50PN10	Ø50	24	METER
HELD-BORD-63PN10	Ø63	16	METER
HELD-BORD-75PN10	Ø75	12	METER
HELD-BORD-90PN10	Ø90	8	METER
HELD-BORD-110PN10	Ø110	4	METER



PP-R PIPE PN16 - SDR 7,4

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN16	Ø20	120	METER
HELD-BORD-25PN16	Ø25	80	METER
HELD-BORD-32PN16	Ø32	60	METER
HELD-BORD-40PN16	Ø40	40	METER
HELD-BORD-50PN16	Ø50	24	METER
HELD-BORD-63PN16	Ø63	16	METER
HELD-BORD-75PN16	Ø75	12	METER
HELD-BORD-90PN16	Ø90	8	METER
HELD-BORD-110PN16	Ø110	4	METER



PP-R PIPE PN20 - SDR 6

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN20	Ø20	120	METER
HELD-BORD-25PN20	Ø25	80	METER
HELD-BORD-32PN20	Ø32	60	METER
HELD-BORD-40PN20	Ø40	40	METER
HELD-BORD-50PN20	Ø50	24	METER
HELD-BORD-63PN20	Ø63	16	METER
HELD-BORD-75PN20	Ø75	12	METER
HELD-BORD-90PN20	Ø90	8	METER
HELD-BORD-110PN20	Ø110	4	METER



PP-R COMPOSITE PIPE

RHELDOR PP-R PIPES & FITTINGS

PP-R GLASS FIBER REINFORCED (COMPOSITE) PIPE PN20 – SDR 7.4

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN20	Ø20	120	METER
HELD-BORD-25PN20	Ø25	80	METER
HELD-BORD-32PN20	Ø32	60	METER
HELD-BORD-40PN20	Ø40	40	METER
HELD-BORD-50PN20	Ø50	24	METER
HELD-BORD-63PN20	Ø63	16	METER
HELD-BORD-75PN20	Ø75	12	METER
HELD-BORD-90PN20	Ø90	8	METER
HELD-BORD-110PN20	Ø110	4	METER



PP-R GLASS FIBER REINFORCED (COMPOSITE) PIPE PN25 – SDR 7.4

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN25	Ø20	120	METER
HELD-BORD-25PN25	Ø25	80	METER
HELD-BORD-32PN25	Ø32	60	METER
HELD-BORD-40PN25	Ø40	40	METER
HELD-BORD-50PN25	Ø50	24	METER
HELD-BORD-63PN25	Ø63	16	METER
HELD-BORD-75PN25	Ø75	12	METER
HELD-BORD-90PN25	Ø90	8	METER
HELD-BORD-110PN25	Ø110	4	METER



PP-R 3 LAYER PIPE

PP-R 3 LAYER PIPE PN16

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN16	Ø20	120	METER
HELD-BORD-25PN16	Ø25	80	METER
HELD-BORD-32PN16	Ø32	60	METER
HELD-BORD-40PN16	Ø40	40	METER
HELD-BORD-50PN16	Ø50	24	METER
HELD-BORD-63PN16	Ø63	16	METER
HELD-BORD-75PN16	Ø75	12	METER
HELD-BORD-90PN16	Ø90	8	METER
HELD-BORD-11PN16	Ø110	4	METER



PP-R 3 LAYER PIPE PN20

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-BORD-20PN20	Ø20	120	METER
HELD-BORD-25PN20	Ø25	80	METER
HELD-BORD-32PN20	Ø32	60	METER
HELD-BORD-40PN20	Ø40	40	METER
HELD-BORD-50PN20	Ø50	24	METER
HELD-BORD-63PN20	Ø63	16	METER
HELD-BORD-75PN20	Ø75	12	METER
HELD-BORD-90PN20	Ø90	8	METER
HELD-BORD-11PN20	Ø110	4	METER





PP-R PIPE TECHNICAL DATA





Linear Expansion Table For PP-R Pipes

Pipe Lenght

Temperature Difference DT (°C)

L(m)	10	20	30	40	50	60	70	80
1.0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0
2.0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0
3.0	4.5	9.0	13.5	18.0	22.5	27.0	31.5	36.0
4.0	6.0	12.0	18.0	24.0	30.0	36.0	42.0	48.0
5.0	7.0	15.0	22.5	30.0	37.5	45.0	52.5	60.0
6.0	9.0	18.0	27.0	36.0	45.0	54.0	63.0	72.0
7.0	10.5	21.0	31.5	42.0	52.5	63.0	73.5	84.0
8.0	12.0	24.0	36.0	48.0	60.0	72.0	84.0	96.0
9.0	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0
10.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0

Linear Expansion Table For PP-R Composite Pipes

Pipe Lenght

Temperature Difference DT (°C)

L(m)	10	20	30	40	50	60	70	80
1.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2
2.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4
3.0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6
4.0	1.6	3.2	4.8	6.4	8.0	9.6	11.2	12.8
5.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
6.0	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2
7.0	2.8	5.6	8.4	11.2	14.0	16.8	19.6	22.4
8.0	3.2	6.4	9.6	12.8	16.0	19.2	22.4	25.6
9.0	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8
10.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0

PP-R Pipes Technical Data

Characteristics		Unit	Test Method	Value
Density	+23°C	g/cm3	ISO 1183	0,909
Melting Index	MFR 190/5	g/10 min	ISO 1133	0.55
	MFR 230/2,16	g/10 min	ISO 1133	0,30
	MVR 230/5	g/10 min	ISO 1133	1,20
Volume Flow Index	MVR 230/2,16	cm3/10 min	ISO 1133	0,4
Break-off Strength	(50 mm/min)	Mpa		25
Break-off Strain	(50 mm/min)	%	ISO 527/1+2	10
Shore D Toughness	(3 sec value)	-	DIN 53505	65
Charpy Flow (Strength)	+23°C	kJ/m2	ISO 179/1eU	43
	+0°C	kJ/m2	ISO 179/1eU	
	-30°C	kJ/m2	ISO 179/1eU	
Charpy Mixed Blow Strength	+23°C	kJ/m2	ISO 179/1eA	52
	+0°C	kJ/m2	ISO 179/1eA	7
	-30°C	kJ/m2	ISO 179/1eA	2,5
Melting Range		kJ/m2	DSC	150-160
Lineat Thermo Expansion Coefficient		°C	DIN 53752	1,5*10-4
Thermal Conductivity		1/K	DIN 52612	0,24
Exterior Strength		W/mK	DIN VDE 0303, T3	>1014
		Ohm		

PP-R PIPE TECHNICAL DATA

RHELDOR PP-R PIPES & FITTINGS

Installation Information Of PP¾R Pipe and Fittings
¹Welding Tools Temperature Value ½ C°

Pipe Diameter ¹mm°	Weld Depth ¹mm°	Installation Time ¹sec°	Installation Time ¹Pcs° ¹sec°	Cooling Time ¹sec°
20 mm	14.5	6	4	3
25 mm	16	8	5	4
32 mm	18	9	7	5
40 mm	20.5	13	7	5
50 mm	23.5	19	8	6
63 mm	27.5	25	8	8
75 mm	30	31	11	9
90 mm	33	41	12	10
110 mm	37	51	13	11

CLAMPÉS DISTANCES ON PIPES

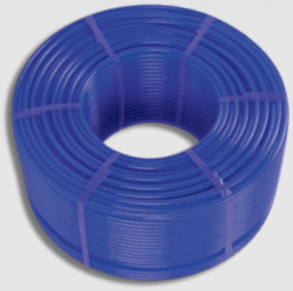
Different factors such asthetype¥ diameter¥ weight andwater temperature of the pipes can change the clamp distances« According to this variability¥ the approximate values are as follows« Also¥ in vertical installations¥ this rate ¹depending on the structure° may increase by « times more distances«

ClampÉs Distances On PP¾R Pipes

d ± C	± C	± C	± C	± C	± C	± C	± C
20 mm	85 cm	60 cm	60 cm	60 cm	60 cm	55 cm	50 cm
25 mm	105 cm	75 cm	75 cm	70 cm	70 cm	65 cm	60 cm
32 mm	125 cm	90 cm	90 cm	80 cm	80 cm	75 cm	75 cm
40 mm	140 cm	100 cm	100 cm	90 cm	90 cm	85 cm	80 cm
50 mm	165 cm	120 cm	120 cm	110 cm	110 cm	100 cm	95 cm
63 mm	190 cm	140 cm	140 cm	130 cm	130 cm	115 cm	105 cm
75 mm	205 cm	150 cm	150 cm	140 cm	140 cm	125 cm	115 cm
90 mm	220 cm	160 cm	160 cm	150 cm	150 cm	140 cm	125 cm
110 mm	250 cm	180 cm	180 cm	170 cm	170 cm	160 cm	140 cm
160 mm	270 cm	210 cm	200 cm	195 cm	195 cm	180 cm	175 cm

PE-RT PIPES

RHELDOR®
PP-R PIPES & FITTINGS



PE-RT PIPES

RHELDOR pipes are engineered for underfloor heating, potable water, and modern plumbing applications. Thanks to their high-quality raw material structure, they maintain flexibility while offering long-lasting and reliable performance. Their smooth inner surface reduces flow losses and enhances system efficiency. With a corrosion-resistant structure, they provide a stable and secure metal- free solution.

Thanks to its special structure that exhibits high resistance to temperature and pressure fluctuations, it maintains its form and performance under diverse plumbing conditions. Its flexibility provides ease of installation while reducing the risk of cracking and deformation. With a structure resistant to chemical influences, it does not wear out over time, offering a secure and stable solution for piping systems.

PE-RT Pipes;

High Durability:
Thanks to its structure resistant to pressure, impact, and environmental influences, it maintains its form and performance for a long time, even under demanding operating conditions.

Chemical Resistance:
Offering high resistance to chemicals, moisture, and external factors, it ensures safe and trouble-free use in various plumbing applications.

Long-Lasting Performance:
With its maintenance-free structure, it offers a reliable plumbing solution for many years, effectively reducing operational costs.

PE-RT NON-OXYGEN BARRIER PIPE

CODE	SIZE	COLOR	QTY/BOX	BOX TYPE
HELD-ŞEFF-160002	16X2	-	OPTIONAL	METER
HELD-ŞEFK-160002	16X2	RED	OPTIONAL	METER
HELD-ŞEFM-160002	16X2	BLUE	OPTIONAL	METER

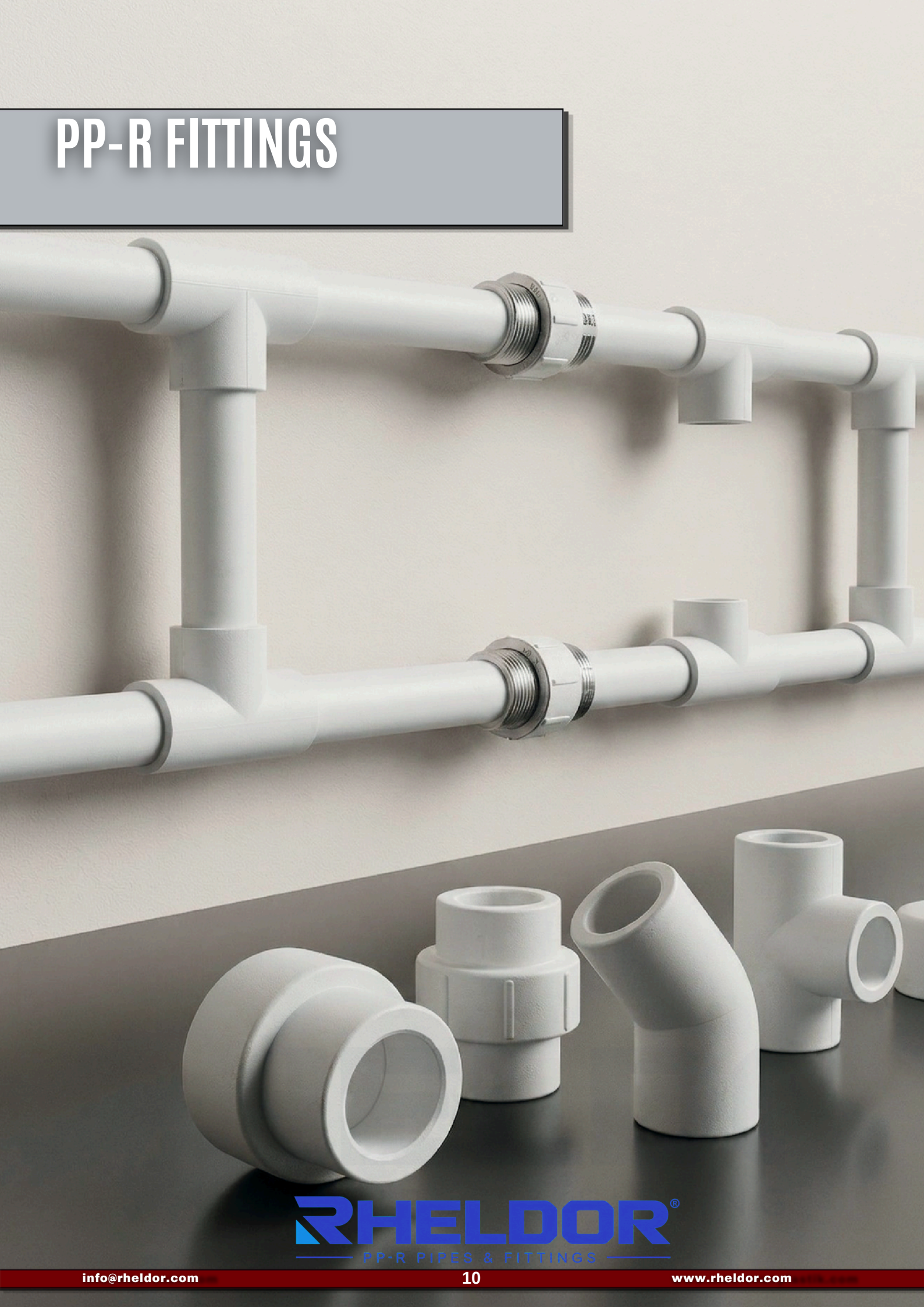


PE-RT OXYGEN BARRIER PIPE

CODE	SIZE	COLOR	QTY/BOX	BOX TYPE
HELD-KIRM-160002	16X2	-	OPTIONAL	METER
HELD-KIRK-160002	16X2	KIRMIZI	OPTIONAL	METER
HELD-KIMM-160002	16X2	BLUE	OPTIONAL	METER



PP-R FITTINGS



RHELDOR®
PP-R PIPES & FITTINGS

PP-R 90° ELBOW

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-DRSK-200090	Ø20X90	500	PIECES
HELD-DRSK-250090	Ø25X90	300	PIECES
HELD-DRSK-320090	Ø32X90	150	PIECES
HELD-DRSK-400090	Ø40X90	75	PIECES
HELD-DRSK-500090	Ø50X90	40	PIECES
HELD-DRSK-630090	Ø63X90	25	PIECES
HELD-DRSK-750090	Ø75X90	16	PIECES
HELD-DRSK-900090	Ø90X90	8	PIECES
HELD-DRSK-110090	Ø110X90	4	PIECES



PP-R 45° ELBOW

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-DRSK-200045	Ø20X45	500	PIECES
HELD-DRSK-250045	Ø25X45	350	PIECES
HELD-DRSK-320045	Ø32X45	175	PIECES
HELD-DRSK-400045	Ø40X45	100	PIECES
HELD-DRSK-500045	Ø50X45	50	PIECES
HELD-DRSK-630045	Ø63X45	30	PIECES
HELD-DRSK-750045	Ø75X45	6	PIECES
HELD-DRSK-900045	Ø90X45	4	PIECES
HELD-DRSK-110045	Ø110X45	4	PIECES



PP-R 90° TAIL ELBOW

ÜRÜN KODU	SIZE	QTY/BOX	BOX TYPE
HELD-KDRS-200090	20X90	500	PIECES
HELD-KDRS-250090	25X90	300	PIECES



PP-R 45° TAIL ELBOW

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-KDRS-200045	Ø20X45	500	PIECES
HELD-KDRS-250045	Ø25X45	250	PIECES
HELD-KDRS-320045	Ø32X45	150	PIECES



PP-R SOCKET

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-MANS-200000	Ø20	600	PIECES
HELD-MANS-250000	Ø25	400	PIECES
HELD-MANS-320000	Ø32	200	PIECES
HELD-MANS-400000	Ø40	120	PIECES
HELD-MANS-500000	Ø50	60	PIECES
HELD-MANS-630000	Ø63	40	PIECES
HELD-MANS-750000	Ø75	24	PIECES
HELD-MANS-900000	Ø90	18	PIECES
HELD-MANS-110000	Ø110	11	PIECES
HELD-MANS-125000	Ø125	9	PIECES



PP-R REDUCTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 Ø	QTY/BOX	BOX TYPE
HELD-RDKS-250020	Ø25	Ø20	750	PIECES
HELD-RDKS-320020	Ø32	Ø20	400	PIECES
HELD-RDKS-320025	Ø32	Ø25	400	PIECES
HELD-RDKS-400020	Ø40	Ø20	250	PIECES
HELD-RDKS-400025	Ø40	Ø25	250	PIECES
HELD-RDKS-400032	Ø40	Ø32	200	PIECES
HELD-RDKS-500020	Ø50	Ø20	150	PIECES
HELD-RDKS-500025	Ø50	Ø25	120	PIECES
HELD-RDKS-500032	Ø50	Ø32	125	PIECES
HELD-RDKS-500040	Ø50	Ø40	100	PIECES
HELD-RDKS-630032	Ø63	Ø32	80	PIECES
HELD-RDKS-630040	Ø63	Ø40	75	PIECES
HELD-RDKS-630050	Ø63	Ø50	75	PIECES
HELD-RDKS-750040	Ø75	Ø40	60	PIECES
HELD-RDKS-750050	Ø75	Ø50	50	PIECES
HELD-RDKS-750063	Ø75	Ø63	36	PIECES
HELD-RDKS-900050	Ø90	Ø50	36	PIECES
HELD-RDKS-900063	Ø90	Ø63	36	PIECES
HELD-RDKS-900075	Ø90	Ø75	24	PIECES
HELD-RDKS-110063	Ø110	Ø63	20	PIECES
HELD-RDKS-110075	Ø110	Ø75	18	PIECES
HELD-RDKS-110090	Ø110	Ø90	16	PIECES
HELD-RDKS-125090	Ø125	Ø90	18	PIECES
HELD-RDKS-125110	Ø125	Ø110	13	PIECES
HELD-RDKS-160110	Ø160	Ø110	10	PIECES
HELD-RDKS-160125	Ø160	Ø125	9	PIECES

PP-R REDUCED SOCKET

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 Ø	QTY/BOX	BOX TYPE
HELD-RDMN-250020	Ø25	Ø20	500	PIECES
HELD-RDMN-320020	Ø32	Ø20	300	PIECES
HELD-RDMN-320025	Ø32	Ø25	250	PIECES



PP-R REDUCED ELBOW

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 Ø	QTY/BOX	BOX TYPE
HELD-RDDR-250020	Ø25	Ø20	300	PIECES
HELD-RDDR-320020	Ø32	Ø20	250	PIECES
HELD-RDDR-320025	Ø32	Ø25	150	PIECES

PP-R EQUAL TEE

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-ETEE-200000	Ø20	350	PIECES
HELD-ETEE-250000	Ø25	200	PIECES
HELD-ETEE-320000	Ø32	100	PIECES
HELD-ETEE-400000	Ø40	50	PIECES
HELD-ETEE-500000	Ø50	32	PIECES
HELD-ETEE-630000	Ø63	15	PIECES
HELD-ETEE-750000	Ø75	12	PIECES
HELD-ETEE-900000	Ø90	6	PIECES
HELD-ETEE-110000	Ø110	3	PIECES



PP-R DOUBLE TEE

CODE	SIZE Ø	QTY/BOX	BOX TYPE
HELD-ÇFTE-252525	Ø25XØ25XØ25	90	PIECES



PP-R REDUCED TEE

CODE	SIZE 1 Ø	SIZE 2 Ø	SIZE 3 Ø	QTY/BOX	BOX TYPE
HELD-İTEE-252020	Ø25	Ø20	Ø20	250	PIECES
HELD-İTEE-252025	Ø25	Ø20	Ø25	225	PIECES
HELD-İTEE-322032	Ø32	Ø20	Ø32	100	PIECES
HELD-İTEE-322532	Ø32	Ø25	Ø32	125	PIECES
HELD-İTEE-402040	Ø40	Ø20	Ø40	75	PIECES
HELD-İTEE-402540	Ø40	Ø25	Ø40	75	PIECES
HELD-İTEE-403240	Ø40	Ø32	Ø40	60	PIECES
HELD-İTEE-502050	Ø50	Ø20	Ø50	40	PIECES
HELD-İTEE-502550	Ø50	Ø25	Ø50	40	PIECES
HELD-İTEE-503250	Ø50	Ø32	Ø50	35	PIECES
HELD-İTEE-504050	Ø50	Ø40	Ø50	35	PIECES
HELD-İTEE-632063	Ø63	Ø20	Ø63	24	PIECES
HELD-İTEE-632563	Ø63	Ø25	Ø63	24	PIECES
HELD-İTEE-633263	Ø63	Ø32	Ø63	20	PIECES
HELD-İTEE-634063	Ø63	Ø40	Ø63	20	PIECES
HELD-İTEE-635063	Ø63	Ø50	Ø63	20	PIECES
HELD-İTEE-903290	Ø90	Ø32	Ø90	8	PIECES
HELD-İTEE-904090	Ø90	Ø40	Ø90	8	PIECES
HELD-İTEE-905090	Ø90	Ø50	Ø90	8	PIECES
HELD-İTEE-906390	Ø90	Ø63	Ø90	8	PIECES
HELD-İTEE-907590	Ø90	Ø75	Ø90	8	PIECES
HELD-İTEE-114011	Ø110	Ø40	Ø110	3	PIECES
HELD-İTEE-115011	Ø110	Ø50	Ø110	3	PIECES
HELD-İTEE-116311	Ø110	Ø63	Ø110	3	PIECES
HELD-İTEE-117511	Ø110	Ø75	Ø110	3	PIECES
HELD-İTEE-119011	Ø110	Ø90	Ø110	3	PIECES



PP-R CROSS

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-İSTV-200000	Ø20	250	PIECES
HELD-İSTV-250000	Ø25	150	PIECES
HELD-İSTV-320000	Ø32	75	PIECES



PP-R CROSSOVER SHORT

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-CKVS-200000	Ø20	200	PIECES
HELD-CKVS-250000	Ø25	150	PIECES
HELD-CKVS-320000	Ø32	70	PIECES



PP-R CROSSOVER SOCKET TYPE

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-MKVS-250000	Ø25	80	PIECES
HELD-MKVS-320000	Ø32	50	PIECES



PP-R STOPEND

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-KABA-200000	Ø20	1200	PIECES
HELD-KABA-250000	Ø25	750	PIECES
HELD-KABA-320000	Ø32	400	PIECES
HELD-KABA-400000	Ø40	200	PIECES
HELD-KABA-500000	Ø50	120	PIECES
HELD-KABA-630000	Ø63	50	PIECES
HELD-KABA-750000	Ø75	30	PIECES
HELD-KABA-900000	Ø90	24	PIECES
HELD-KABA-110000	Ø110	12	PIECES



PP-R END CAP

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-TAPA-200000	Ø20	1000	PIECES
HELD-TAPA-250000	Ø25	750	PIECES
HELD-TAPA-320000	Ø32	400	PIECES

PP-R END CAP LONG

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-UTAP-200000	Ø20	250	PIECES

PP-R SINGLE CLAMP

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-KLPT-200000	Ø20	1000	PIECES
HELD-KLPT-250000	Ø25	750	PIECES



PP-R DOUBLE CLAMP

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-KLPÇ-200000	Ø20	400	PIECES
HELD-KLPÇ-250000	Ø25	300	PIECES
HELD-KLPÇ-320000	Ø32	300	PIECES



PP-R LOCKING SINGLE CLAMP

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-TKKP-320000	Ø32	500	PIECES

PP-R FEMALE NIPPLE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-NİİD-200020	Ø20	1/2"	250	PIECES
HELD-NİİD-200025	Ø20	3/4"	200	PIECES
HELD-NİİD-250020	Ø25	1/2"	150	PIECES
HELD-NİİD-250025	Ø25	3/4"	125	PIECES
HELD-NİİD-320020	Ø32	1/2"	75	PIECES
HELD-NİİD-320025	Ø32	3/4"	100	PIECES
HELD-NİİD-320032	Ø32	1"	100	PIECES



PP-R MALE NIPPLE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-NİDD-200020	Ø20	1/2"	200	PIECES
HELD-NİDD-200025	Ø20	3/4"	150	PIECES
HELD-NİDD-250020	Ø25	1/2"	125	PIECES
HELD-NİDD-250025	Ø25	3/4"	125	PIECES
HELD-NİDD-320020	Ø32	1/2"	75	PIECES
HELD-NİDD-320025	Ø32	3/4"	75	PIECES
HELD-NİDD-320032	Ø32	1"	80	PIECES



PP-R HEXAGONAL FEMALE NIPPLE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-NİİD-40AA40	Ø40	1 1/4"	50	PIECES
HELD-NİİD-50AA50	Ø50	1 1/2"	30	PIECES
HELD-NİİD-63AA63	Ø63	2"	20	PIECES
HELD-NİİD-75AA75	Ø75	2 1/2"	12	PIECES
HELD-NİİD-90AA90	Ø90	3"	6	PIECES
HELD-NİİD-11AA11	Ø110	4"	4	PIECES



PP-R HEXAGONAL MALE NIPPLE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-NİDD-40AA40	Ø40	1 1/4"	40	PIECES
HELD-NİDD-50AA50	Ø50	1 1/2"	30	PIECES
HELD-NİDD-63AA63	Ø63	2"	20	PIECES
HELD-NİDD-75AA75	Ø75	2 1/2"	8	PIECES
HELD-NİDD-90AA90	Ø90	3"	6	PIECES
HELD-NİDD-11AA11	Ø110	4"	4	PIECES



PP-R 90° FEMALE ELBOW

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-DİİD-200020	Ø20	1/2"	200	PIECES
HELD-DİİD-200025	Ø20	3/4"	150	PIECES
HELD-DİİD-250020	Ø25	1/2"	125	PIECES
HELD-DİİD-250025	Ø25	3/4"	125	PIECES
HELD-DİİD-320020	Ø32	1/2"	60	PIECES
HELD-DİİD-320025	Ø32	3/4"	60	PIECES
HELD-DİİD-320032	Ø32	1"	60	PIECES



PP-R 90° MALE ELBOW

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-DİDD-200020	Ø20	1/2"	150	PIECES
HELD-DİDD-200025	Ø20	3/4"	125	PIECES
HELD-DİDD-250020	Ø25	1/2"	100	PIECES
HELD-DİDD-250025	Ø25	3/4"	100	PIECES
HELD-DİDD-320020	Ø32	1/2"	60	PIECES
HELD-DİDD-320025	Ø32	3/4"	60	PIECES
HELD-DİDD-320032	Ø32	1"	60	PIECES



PP-R FEMALE TEE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-TEİD-200020	Ø20	1/2"	150	PIECES
HELD-TEİD-250020	Ø25	1/2"	100	PIECES
HELD-TEİD-250025	Ø25	3/4"	100	PIECES
HELD-TEİD-320020	Ø32	1/2"	60	PIECES
HELD-TEİD-320025	Ø32	3/4"	50	PIECES
HELD-TEİD-320032	Ø32	1"	50	PIECES



PP-R MALE TEE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-TEDD-200020	Ø20	1/2"	150	PIECES
HELD-TEDD-250020	Ø25	1/2"	100	PIECES
HELD-TEDD-250025	Ø25	3/4"	100	PIECES
HELD-TEDD-320020	Ø32	1/2"	45	PIECES
HELD-TEDD-320025	Ø32	3/4"	45	PIECES
HELD-TEDD-320032	Ø32	1"	40	PIECES



PP-R Y FILTER (WITH METAL PLUG)

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-PSTB-200020	Ø20	1/2"	120	PIECES
HELD-PSTB-250025	Ø25	3/4"	80	PIECES



PP-R MALE Y FILTER (WITH METAL PLUG)

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-EFLT-200000	Ø20	1/2"	120	PIECES
HELD-EFLT-250000	Ø25	3/4"	80	PIECES



PP-R BALL VALVE

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-KÜRV-200000	Ø20	80	PIECES
HELD-KÜRV-250000	Ø25	60	PIECES
HELD-KÜRV-320000	Ø32	40	PIECES



PP-R WALL TYPE FEMALE ELBOW

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-BTİD-200020	Ø20	1/2"	150	PIECES
HELD-BTİD-250020	Ø25	1/2"	90	PIECES



PP-R WALL TYPE MALE ELBOW

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-BTDD-200020	Ø20	1/2"	100	PIECES



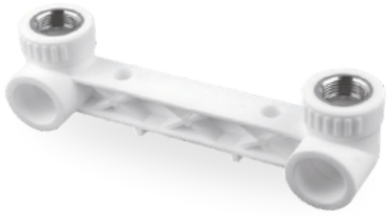
PP-R THIN F. DOUBLE BATTERY CONNECTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-ÇİBD-200020	**Ø20**	**1/2"**	**30**	**PIECES**



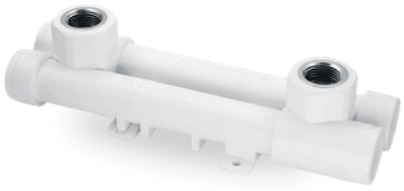
PP-R FEMALE DOUBLE BATTERY CONNECTION

CODE	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-ÇBİD-200020	**Ø20**	**1/2"**	**30**	**PIECES**
HELD-ÇBİD-250020	**Ø25**	**1/2"**	**30**	**PIECES**



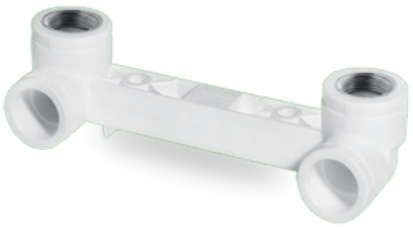
PP-R ADJUSTABLE F. BATTERY CONNECTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-ÇFAB-200020	**Ø20**	**1/2"**	**15**	**PIECES**
HELD-ÇFAB-250020	**Ø25**	**1/2"**	**15**	**PIECES**



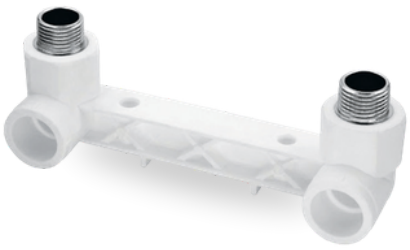
PP-R THICK F. DOUBLE BATTERY CONNECTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-ÇKDB-250020	**Ø25**	**1/2"**	**30**	**PIECES**



PP-R THICK M. DOUBLE BATTERY CONNECTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-ÇKEB-200025	**Ø20**	**3/4"**	**30**	**PIECES**



PP-R ADJUSTABLE M. BATTERY CONNECTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-TBTD-200020	**Ø20**	**1/2"**	**50**	**PIECES**



PP-R NIPPLE WITH LOOSE NUT

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-NİPH-200012	Ø20	1/2"	300	PIECES
HELD-NİPH-200034	Ø20	3/4"	250	PIECES
HELD-NİPH-250012	Ø25	1/2"	200	PIECES
HELD-NİPH-250034	Ø25	3/4"	200	PIECES



PP-R 90° ELBOW WITH LOOSE NUT

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-DRSH-200000	Ø20	1/2"	200	PIECES
HELD-DRSH-200034	Ø20	3/4"	150	PIECES
HELD-DRSH-250012	Ø25	1/2"	120	PIECES
HELD-DRSH-250034	Ø25	3/4"	125	PIECES



PP-R COMBI SET

ÜRÜN KODU	AÇIKLAMA	QTY/BOX	BOX TYPE
HELD-KSNP-000008	Str. Nipple – 8 pcs	24	PIECES
HELD-KSNP-000010	Str. Nipple – 10 pcs	24	PIECES
HELD-KSDR-000008	Elbow – 8 pcs	24	PIECES
HELD-KSDR-000010	Elbow – 10 pcs	24	PIECES



PP-R STOP VANA BODY

ÜRÜN KODU	SIZE 1 Ø	SIZE 2"	QTY/BOX	BOX TYPE
HELD-STVG-200000	Ø20	1/2"	80	PIECES
HELD-STVG-250000	Ø25	3/4"	75	PIECES
HELD-STVG-320000	Ø32	1"	40	PIECES

PP-R STOP VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-STPV-200000	Ø20	1/2“	50	PIECES
HELD-STPV-250000	Ø25	3/4“	25	PIECES
HELD-STPV-320000	Ø32	1“	20	PIECES





PP-R CHROME PLATED CONCEALED VALVE

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-ANKV-200000	Ø20	50	PIECES
HELD-ANKV-250000	Ø25	25	PIECES
HELD-ANKV-320000	Ø32	15	PIECES



PP-R CHROME PLATED LUX STOP VALVE

ÜRÜN KODU	SIZE Ø	QTY/BOX	BOX TYPE
HELD-LUXV-200000	Ø20	50	PIECES
HELD-LUXV-250000	Ø25	30	PIECES
HELD-LUXV-320000	Ø32	15	PIECES



PP-R CHROME PLATED SQUARE BUILT-IN VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-KKAV-200012	Ø20	1/2"	12	PIECES
HELD-KKAV-250012	Ø25	1/2"	12	PIECES



PP-R CHROME PLATED ROUND BUILT-IN VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-KYAV-200012	Ø20	1/2"	12	PIECES
HELD-KYAV-250012	Ø25	1/2"	12	PIECES



PP-R BODY CHROME-PLATED VALVES

PP-R CHROME PLATED STAR BUILT-IN VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-KZAV-200012	Ø20	1/2"	12	PIECES
HELD-KZAV-250012	Ø25	1/2"	12	PIECES



PP-R MATTE BLACK SQUARE BUILT-IN VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-MKAV-200012	Ø20	1/2"	12	PIECES
HELD-MKAV-250012	Ø25	1/2"	12	PIECES



PP-R MATTE BLACK ROUND BUILT-IN VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-MYAV-200012	Ø20	1/2"	12	PIECES
HELD-MYAV-250012	Ø25	1/2"	12	PIECES



PP-R MATTE BLACK STAR BUILT-IN VALVE

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-MZAV-200012	Ø20	1/2"	12	PIECES
HELD-MZAV-250012	Ø25	1/2"	12	PIECES



PP-R FLANGED BALL VALVE WITH PLASTIC CONNECTION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-APBK-200000	**Ø20**	**1/2"**	**-**	**PIECES**
HELD-APBK-250000	**Ø25**	**3/4"**	**50**	**PIECES**
HELD-APBK-320000	**Ø32**	**1"**	**35**	**PIECES**



PP-R FLANGED TWO SIDE WELDED TRANSITION UNION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-KRÇT-200000	**Ø20**	**1/2"**	**150**	**PIECES**
HELD-KRÇT-250000	**Ø25**	**3/4"**	**125**	**PIECES**
HELD-KRÇT-320000	**Ø32**	**1"**	**100**	**PIECES**





PP-R FLANGED FEMALE TRANSITION UNION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-OBİD-200000	Ø20	1/2"	250	PIECES
HELD-OBİD-250000	Ø25	3/4"	200	PIECES
HELD-OBİD-320000	Ø32	1"	125	PIECES
HELD-OBİD-400000	Ø40	1 1/4"	60	PIECES
HELD-OBİD-500000	Ø50	1 1/2"	40	PIECES
HELD-OBİD-630000	Ø63	2"	20	PIECES
HELD-OBİD-750000	Ø75	2 1/2"	10	PIECES
HELD-OBİD-900000	Ø90	3"	4	PIECES



PP-R FLANGED FEMALE REDUCED TRANSITION UNION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-OAİD-200034	Ø20	3/4"	300	PIECES
HELD-OAİD-200032	Ø20	1"	150	PIECES
HELD-OAİD-250012	Ø25	1/2"	150	PIECES
HELD-OAİD-250032	Ø25	1"	125	PIECES
HELD-OAİD-320012	Ø32	1/2"	125	PIECES
HELD-OAİD-320034	Ø32	3/4"	125	PIECES
HELD-OAİD-320014	Ø32	1 1/4"	100	PIECES



PP-R FLANGED MALE TRANSITION UNION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-OBDD-200000	Ø20	1/2"	250	PIECES
HELD-OBDD-250000	Ø25	3/4"	150	PIECES
HELD-OBDD-320000	Ø32	1"	100	PIECES
HELD-OBDD-400000	Ø40	1 1/4"	60	PIECES
HELD-OBDD-500000	Ø50	1 1/2"	45	PIECES
HELD-OBDD-630000	Ø63	2"	16	PIECES
HELD-OBDD-750000	Ø75	2 1/2"	10	PIECES
HELD-OBDD-900000	Ø90	3"	4	PIECES



PP-R FLANGED MALE REDUCED TRANSITION UNION

ÜRÜN KODU	SIZE 1 Ø	SIZE 2 "	QTY/BOX	BOX TYPE
HELD-OADD-200034	Ø20	3/4"	250	PIECES
HELD-OADD-200032	Ø20	1"	150	PIECES
HELD-OADD-250012	Ø25	1/2"	150	PIECES
HELD-OADD-250032	Ø25	1"	150	PIECES
HELD-OADD-320012	Ø32	1/2"	125	PIECES
HELD-OADD-320034	Ø32	3/4"	100	PIECES
HELD-OADD-320014	Ø32	1 1/4"	100	PIECES



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