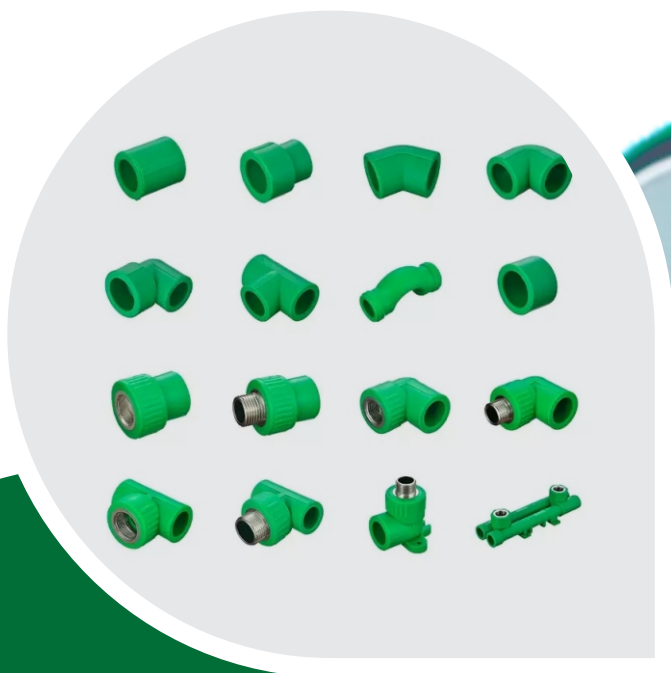




Tubos e Conexões em PPR-C



A evolução nas instalações em PPR para
ÁGUA QUENTE E FRIA
TUBOS 3 CAMADAS KPT Anti Microbiano
Resistente UV e Alto Isolamento Térmico.



CERTIFICAÇÃO ISO 9001:2015 E ISO 14001:2015

Inovação que redefine padrões
TUBOS 3 CAMADAS KPT
MAIS QUALIDADE, CONFIABILIDADE
E EFICIÊNCIA EM SUAS INSTALAÇÕES

CAMADA INTERNA

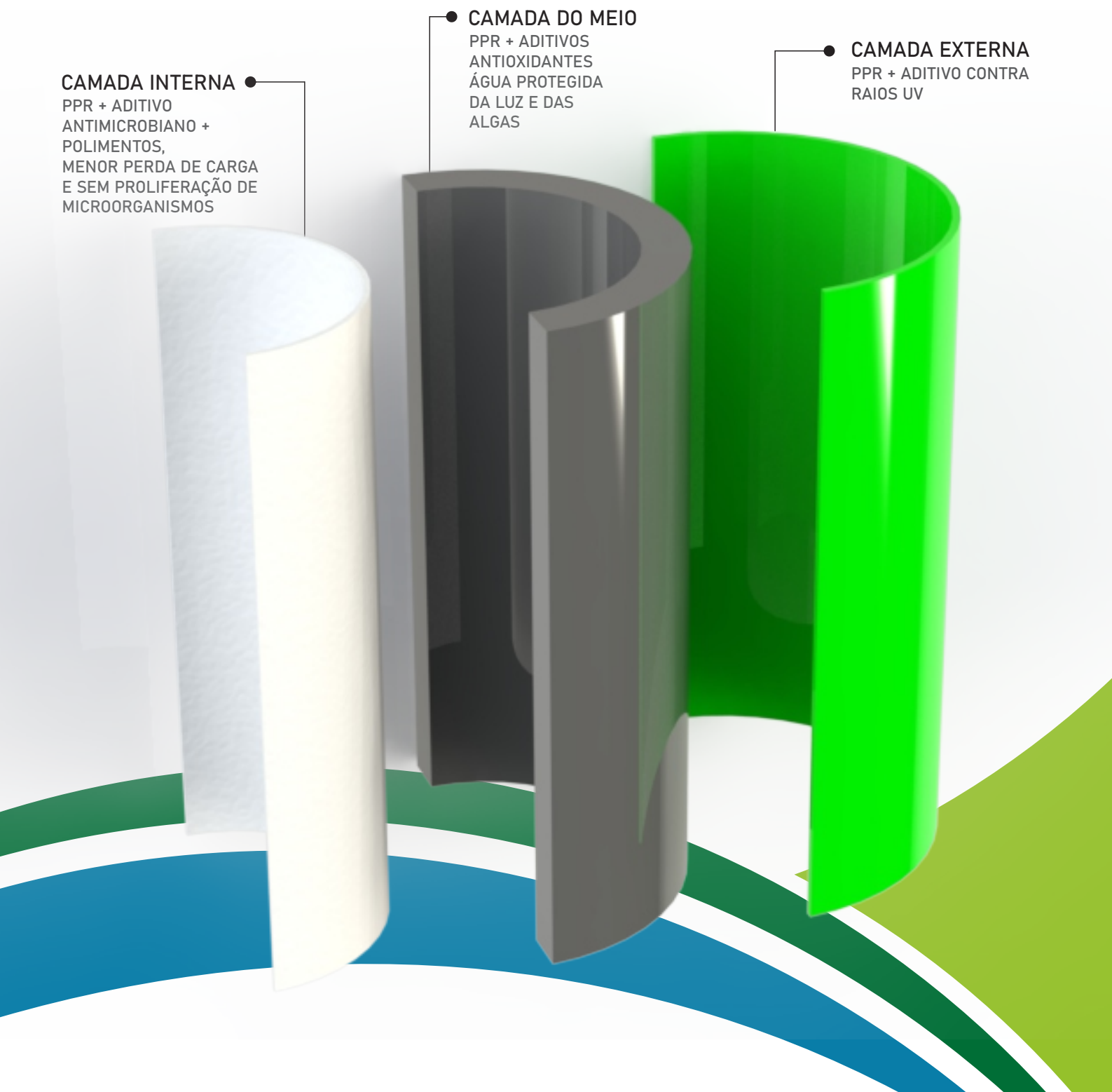
PPR + ADITIVO
ANTIMICROBIANO +
POLIMENTOS,
MENOR PERDA DE CARGA
E SEM PROLIFERAÇÃO DE
MICROORGANISMOS

CAMADA DO MEIO

PPR + ADITIVOS
ANTIOXIDANTES
ÁGUA PROTEGIDA
DA LUZ E DAS
ALGAS

CAMADA EXTERNA

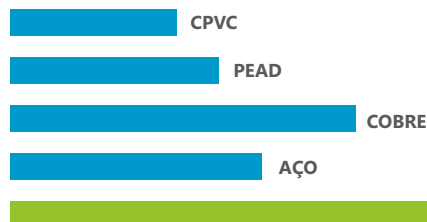
PPR + ADITIVO CONTRA
RAIOS UV



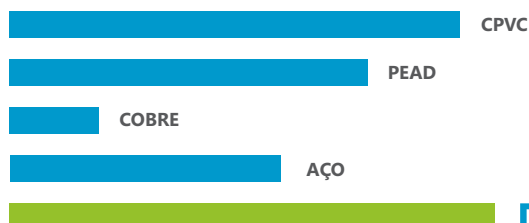
DIFERENCIAIS ÚNICOS DA TUBULAÇÃO PPR KPT

DURABILIDADE E RESISTÊNCIA

- Montagem sem vazamento
- Capacidade de alta pressão
- Capacidade alta de isolamento térmico
- Resistente à corrosão e oxidação
- Resistência química
- Resistência térmica
- Resistência aos raios UV



VIABILIDADE ECONÔMICA



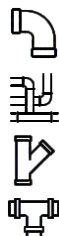
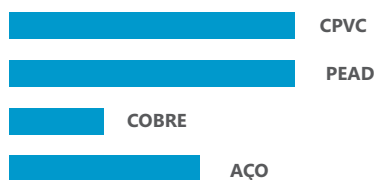
- Excelente custo benefício
- Baixo peso, transporte e manuseio facilitado
- Facilidade de instalação

HIGIENE E SEGURANÇA ALIMENTAR

- Resistente ao crescimento bacteriano
- Produto higiênico, ideal para indústria alimentícia
- Resistente ao calor
- Montagem sem vazamento



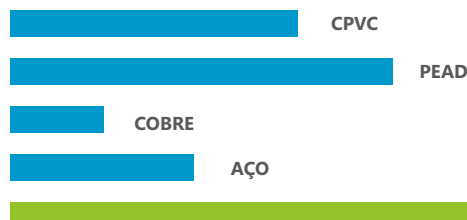
VERSATILIDADE E CONFIABILIDADE



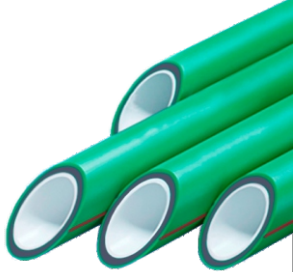
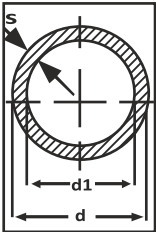
- Variedades de tipos de conexão
- Disponibilidade de diâmetros de Ø20 a Ø200
- Não requer lixa, colas, solventes, ou algo do tipo

SIMPLICIDADE OPERACIONAL

- Facilidade de instalação
- Facilidade de reparo
- Facilidade de reposição
- Facilidade de ampliação



TUBO 3 CAMADAS

Foto	Desenho Técnico	Código	Diâmetro	Espessura da parede	Ø Interno	Ar contido	Comp.
			d(mm)	S(mm)	di(mm)	(l/m)	(m)
		BRG-20-3C-3M	20	1.9	16.2	0.206	3
		BRG-25-3C-3M	25	2.3	20.4	0.327	3
		BRG-32-3C-3M	32	2.9	26.2	0.539	3
		BRG-40-3C-3M	40	3.7	32.6	0.834	3
		BRG-50-3C-3M	50	4.6	40.8	1.307	3
		BRG-63-3C-3M	63	5.8	51.4	2.074	3
		BRG-75-3C-3M	75	6.8	61.4	2.959	3
		BRG-90-3C-3M	90	8.2	73.6	4.252	3
		BRG-110-3C-3M	110	10.0	90.0	6.359	3
		BRG-160-3C-3M	160	14.6	130.8	13.430	3

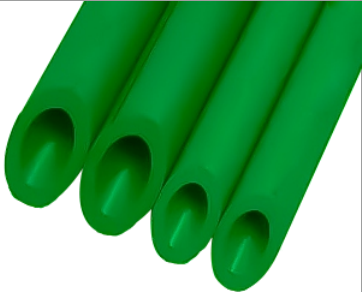
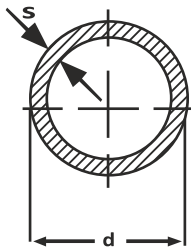
PRESSÃO DE TRABALHO PERMITIDA

A lista da tabela abaixo mostra a pressão de trabalho permitida para tubos com diferentes classes de pressão sob temperatura e vida útil específicas. Sob pressão e condições normais de trabalho, a vida útil do sistema de tubulação KPT PPR é garantida em pelo menos 50 anos.

Temperatura °C	Tempo de Trabalho (Anos)	Pressão de trabalho admissível, em bar
10°C	1	27.8
	5	26.4
	10	25.5
	25	24.7
	50	24.0
	100	23.4
20°C	1	23.8
	5	22.3
	10	21.7
	25	21.1
	50	20.4
	100	19.8
30°C	1	20.2
	5	19.0
	10	18.3
	25	17.7
	50	17.3
	100	16.9
40°C	1	17.1
	5	16.0
	10	15.6
	25	15.0
	50	14.5
	100	14.1

Temperatura °C	Tempo de Trabalho (Anos)	Pressão de trabalho admissível, em bar
50°C	1	14.4
	5	13.5
	10	13.1
	25	12.6
	50	12.2
	100	11.8
60°C	1	12.1
	5	11.4
	10	11.0
	25	10.5
	50	10.1
70°C	1	10.3
	5	9.5
	10	9.3
	25	8.0
	50	6.7
80°C	1	8.6
	5	7.6
	10	6.3
	25	5.1
95°C	1	6.1
	5	4.0
	(10)'	(3.4)'

TUBO PN16 1 CAMADA

Foto	Desenho Técnico	Código	Diâmetro	Espessura da parede	Comp.
			d(mm)	S(mm)	
		BRG-20-3M	20	2.3	3
		BRG-25-3M	25	2.8	3
		BRG-32-3M	32	3.6	3
		BRG-40-3M	40	4.5	3
		BRG-50-3M	50	5.6	3
		BRG-63-3M	63	7.1	3
		BRG-75-3M	75	8.4	3
		BRG-90-3M	90	10.1	3

PRESSÃO DE TRABALHO PERMITIDA

Temperatura operacional permitida para tubos feitos de PP-R, fluxo médio de água, fator de segurança (SF) = 1,5
Cálculo base com SDR 9

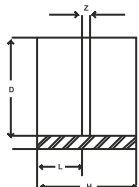
Temperatura °C	Tempo de Trabalho (Anos)	Pressão de trabalho admissível, em bar
10°C	1	22,1
	5	20,8
	10	20,3
	25	19,6
	50	19,1
	100	18,6
20°C	1	18,8
	5	17,7
	10	17,2
	25	16,6
	50	16,2
	100	15,8
30°C	1	16,0
	5	15,0
	10	14,5
	25	14,1
	50	13,7
	100	13,3
40°C	1	13,6
	5	12,7
	10	12,3
	25	11,9
	50	11,5
	100	11,2
50°C	1	11,5
	5	10,7
	10	10,4
	25	10,0
	50	9,7
	100	9,4

Temperatura °C	Tempo de Trabalho (Anos)	Pressão de trabalho admissível, em bar
60°C	1	9,7
	5	9,0
	10	8,7
	25	8,4
	50	8,1
70°C	1	8,1
	5	7,5
	10	7,3
	25	6,3
	50	5,3
80°C	1	6,8
	5	6,0
	10	5,1
	25	4,1
95°C	1	4,8
	5	3,2
	10*	(2,7)

* Os valores entre parênteses se aplicam com base na comprovação de tempos de teste superiores a 1 ano para o teste de 110°C.

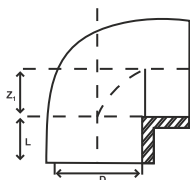
ACESSÓRIOS

LUVA



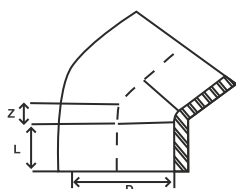
CÓDIGO	Ø (mm)	D	L	Z	H
LU200G	20 MM	19.2	14.5	3.9	32.9
LU250G	25 MM	24.1	18.0	2.6	38.6
LU320G	32 MM	31.0	18.4	3.0	39.8
LU400G	40 MM	38.9	20.7	3.4	44.8
LU500G	50 MM	48.0	24.4	3.1	51.9
LU630G	63 MM	60.7	28.2	8.2	64.6
LU750G	75 MM	71.9	31.5	4.0	67.0
LU900G	90 MM	86.4	32.5	6.1	71.1
LU1100G	110 MM	106.8	38.8	3.0	80.6
LU1600G	160 MM	153.0	42.5	5.4	90.4

JOELHO 90°



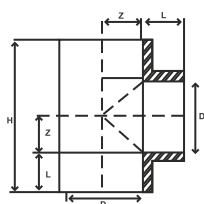
CÓDIGO	Ø (mm)	D	L	Z	H
JO200G	20 MM	19.1	15.5	10.9	40.0
JO250G	25 MM	24.2	16.9	14.1	47.4
JO320G	32 MM	31.1	18.0	16.4	54.2
JO400G	40 MM	39.5	20.0	20.0	66.2
JO500G	50 MM	48.4	23.8	26.2	80.3
JO630G	63 MM	60.5	27.4	32.2	98.2
JO750G	75 MM	72.6	31.5	38.0	115.4
JO900G	90 MM	86.8	33.0	44.7	130.6
JO1100G	110 MM	106.5	39.0	54.8	160.6
JO1600G	160 MM	153.6	45.0	78.7	220.8

JOELHO 45°



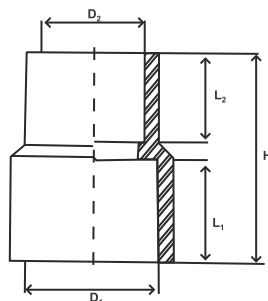
CÓDIGO	Ø (mm)	D	L	Z
JO205G	20 MM	19.3	15.5	6.0
JO255G	25 MM	23.7	17.6	7.0
JO325G	32 MM	30.6	16.5	8.0
JO405G	40 MM	38.2	21.3	9.0
JO505G	50 MM	47.7	22.5	12.0
JO635G	63 MM	60.0	26.0	13.0
JO755G	75 MM	72.5	26.7	20.0
JO905G	90 MM	86.8	34.5	32.0
JO1105G	110 MM	106.2	35.3	40.0
JO1605G	160 MM	154.9	48.2	50.0

TE



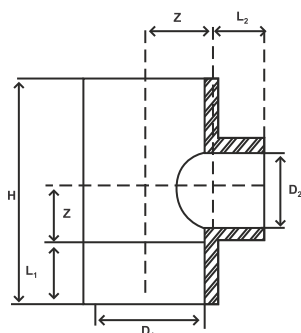
CÓDIGO	Ø (mm)	D	L	Z	H
TE200G	20 MM	19.3	15.8	10.5	52.6
TE250G	25 MM	24.2	18.0	12.7	61.4
TE320G	32 MM	31.4	20.2	16.1	72.5
TE400G	40 MM	39.0	20.3	20.9	82.4
TE500G	50 MM	48.6	24.4	24.5	97.8
TE630G	63 MM	61.7	27.4	32.6	120.0
TE750G	75 MM	72.2	31.3	36.7	136.0
TE900G	90 MM	86.9	32.9	47.1	160.0
TE1100G	110 MM	106.7	38.8	55.3	188.2
TE1600G	160 MM	153.7	45.0	85.0	260.0

LUVA REDUÇÃO



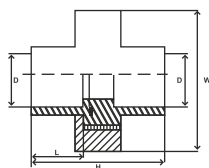
CÓDIGO	Ø (mm)	D1	D2	L1	L2	H
LR2520G	25/20	24.0	19.2	18.5	15.7	38.1
LR3220G	32/20	31.3	19.2	20.0	15.7	39.3
LR3225G	32/25	31.4	24.4	21.0	18.4	41.7
LR4020G	40/20	38.7	19.3	22.9	16.9	48.0
LR4025G	40/25	39.0	24.2	24.2	18.0	48.5
LR4032G	40/32	38.6	31.0	21.1	18.8	44.9
LR5020G	50/20	48.0	18.8	24.6	16.6	44.5
LR5025G	50/25	48.0	23.8	24.5	16.2	45.6
LR5032G	50/32	48.0	31.1	24.4	18.0	48.1
LR5040G	50/40	48.2	38.8	24.3	20.9	48.2
LR6320G	63/20	60.9	19.2	28.2	15.9	48.3
LR6325G	63/25	60.7	24.1	28.2	18.0	49.5
LR6332G	63/32	60.6	30.7	28.0	18.0	48.0
LR6340G	63/40	60.8	38.3	25.3	25.5	56.8
LR6350G	63/50	60.9	48.2	29.2	25.8	64.8
LR7520G	75/20	72.5	19.0	42.7	21.1	63.8
LR7525G	75/25	72.5	24.3	42.7	21.1	63.8
LR7532G	75/32	72.5	31.0	42.7	21.1	63.8
LR7540G	75/40	72.2	38.7	31.6	22.5	63.6
LR7550G	75/50	72.1	48.4	31.7	27.0	63.2
LR7563G	75/63	71.8	60.9	31.4	30.0	67.0
LR9020G	90/20	87.3	19.0	43.5	27.0	70.5
LR9025G	90/25	87.3	24.1	43.5	27.0	70.5
LR9032G	90/32	87.3	31.0	42.5	27.0	70.5
LR9040G	90/40	87.3	38.9	42.5	27.0	70.5
LR9050G	90/50	86.5	48.1	33.0	26.3	70.0
LR9063G	90/63	86.6	60.9	32.8	29.9	68.8
LR9075G	90/75	86.7	72.7	37.2	31.5	71.7
LR11020G	110/20	106.8	19.0	58.1	19.5	76.0
LR11025G	110/25	106.8	24.0	53.3	19.2	76.0
LR11032G	110/32	106.8	31.0	57.6	19.5	76.0
LR11040G	110/40	106.8	39.0	56.6	19.3	76.0
LR11050G	110/50	106.8	48.4	38.9	26.0	76.0
LR11063G	110/63	106.8	61.2	38.9	30.1	76.0
LR11075G	110/75	106.8	72.6	38.9	31.8	76.0
LR11090G	110/90	106.8	86.6	38.9	33.0	76.0
LR16020G	160/20	155.3	18.9	61.8	29.5	91.2
LR16025G	160/25	155.3	23.9	61.8	29.5	91.2
LR16032G	160/32	155.3	30.6	61.8	29.5	91.2
LR16040G	160/40	155.3	38.7	61.8	29.5	91.2
LR16050G	160/50	155.3	48.5	61.8	29.5	91.2
LR16063G	160/63	155.3	61.8	61.8	29.5	91.2
LR16075G	160/75	155.3	73.5	61.8	29.5	91.2
LR16090G	160/90	155.3	86.6	61.8	29.5	91.2
LR160110G	160/110	155.3	106.3	61.8	29.5	91.2

TE REDUÇÃO



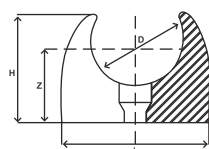
CÓDIGO	Ø (mm)	D1	D2	L1	L2	Z	H
TR2520G	25/20/25	24.2	19.1	17.6	16.2	10.8	56.8
TR3220G	32/20/32	31.1	19.1	19.8	16.5	11.3	62.2
TR3225G	32/25/32	31.4	24.2	20.0	17.8	13.4	66.8
TR4020G	40/20/40	39.0	19.1	21.4	16.5	11.1	65.0
TR4025G	40/25/40	38.8	24.2	21.4	17.6	13.5	69.8
TR4032G	40/32/40	38.8	31.0	21.4	19.5	16.8	76.4
TR5020G	50/20/50	48.4	19.1	24.4	18.1	24.5	97.7
TR5025G	50/25/50	48.6	24.1	24.3	17.9	24.7	98.0
TR5032G	50/32/50	48.6	30.5	24.3	18.8	24.6	97.8
TR5040G	50/40/50	48.6	38.7	22.4	22.0	26.1	96.9
TR6320G	63/20/63	61.2	19.0	27.5	16.2	32.2	119.4
TR6325G	63/25/63	61.3	23.8	27.5	19.4	32.2	119.4
TR6332G	63/32/63	61.3	30.8	27.5	19.3	32.2	119.4
TR6340G	63/40/63	61.3	38.9	27.3	22.5	32.4	119.4
TR6350G	63/50/63	61.2	48.0	27.4	25.8	32.3	119.4
TR7532G	75/32/75	72.5	30.9	31.4	19.7	26.4	115.5
TR7540G	75/40/75	72.3	38.4	31.4	20.3	26.4	115.5
TR7550G	75/50/75	72.3	47.9	31.4	29.8	26.4	115.5
TR7563G	75/63/75	72.2	60.2	31.4	29.8	26.4	115.5
TR9050G	90/50/90	86.5	48.1	32.8	26.0	31.3	128.1
TR9063G	90/63/90	86.5	61.2	32.8	30.1	31.3	128.1
TR9075G	90/75/90	86.5	72.4	32.9	31.7	46.9	159.5
TR11050G	110/50/110	106.5	48.6	38.9	26.2	38.3	154.3
TR11063G	110/63/110	106.7	61.3	39.0	30.2	38.2	154.3
TR11075G	110/75/110	106.4	72.5	39.0	32.0	38.2	154.3
TR11090G	110/90/110	106.7	87.1	38.9	33.0	54.8	187.4
TR160110G	160/110/160	157.5	107.4	45.0	44.9	80.9	251.8

UNIÃO



CÓDIGO	Ø (mm)	D	L	W	H
UN200G	20 MM	19.2	17.7	52.2	44.4
UN250G	25 MM	24.2	18.6	51.4	55.2
UN320G	32 MM	31.2	22.1	61.5	67.5
UN400G	40 MM	39.2	29.2	79.0	79.9
UN500G	50 MM	47.7	23.6	78.0	96.1
UN630G	63 MM	60.7	27.7	89.0	107.6

SUPORTE DESLIZANTE



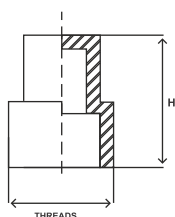
CÓDIGO	Ø (mm)	D	L	Z	H
SP200G	20 MM	18.9	27.0	19.2	31.0
SP250G	25 MM	24.0	32.0	21.0	36.0
SP320G	32 MM	30.7	39.5	27.5	43.5
SP400G	40 MM	39.1	48.3	30.9	49.8
SP500G	50 MM	50.0	60.0	37.3	61.5
SP630G	63 MM	63.0	74.7	45.0	75.3

SUPORTE COM TRAVA



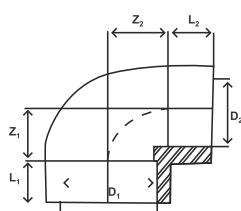
CÓDIGO	Ø (mm)
SCK20G	20 MM
SCK25G	25 MM
SCK32G	32 MM

PLUG LONGO



CÓDIGO	TAMANHO	ROSCA	H
PG200G	1/2"	1/2"	69.7
PG250G	3/4"	3/4"	62.2
PG320G	1"	1"	73.6

JOELHO REDUÇÃO



CÓDIGO	Ø (mm)	D1	D2	L1	L2	Z1	Z2
JR2520G	25/20	24.0	19.2	18.5	16.0	17.8	14.4
JR3220G	32/20	31.3	19.2	21.1	16.0	18.3	18.0
JR3225G	32/25	31.3	24.2	20.0	17.8	22.2	20.7
JR4020G	40/20	38.7	19.2	21.6	16.3	19.6	24.2
JR4025G	40/25	38.7	24.2	21.6	17.8	21.4	20.7
JR4032G	40/32	38.6	31.2	21.9	19.8	24.2	25.3

CONECTOR P/ TANQUE



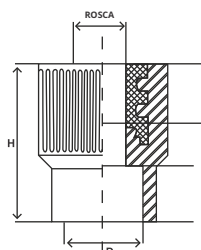
CÓDIGO	TAMANHO	ROSCA
PM200G	1/2"	1/2"
PM250G	3/4"	3/4"

CAP



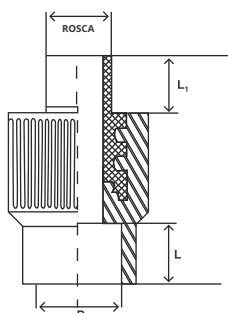
CÓDIGO	TAMANHO
CP200G	20 MM
CP250G	25 MM
CP320G	32 MM
CP400G	40 MM
CP500G	50 MM
CP630G	63 MM
CP750G	75 MM
CP900G	90 MM
CP1100G	110 MM
CP1600G	160 MM

ADAPTADOR RETO FÊMEA



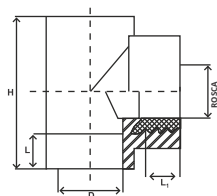
CÓDIGO	TAMANHO	ROSCA	D	L	L1	H
LM20120G	20*1/2	1/2"	19.2	16.0	15.0	43.2
LM25120G	25*1/2	1/2"	23.6	18.0	14.9	41.8
LM25340G	25*3/4	3/4"	24.1	18.1	15.7	45.0
LM32120G	32*1/2	1/2"	31.1	20.0	15.0	50.5
LM32025G	32*3/4	3/4"	31.1	20.4	16.0	52.0
LM32010G	32*1	1"	31.1	20.2	17.8	54.7
LM40114G	40*1	1"	38.7	21.6	27.0	62
LM50112G	40*1-1/4	1 1/4"	38.8	22.1	18.0	62.0
LM50020G	50*1-1/2	1 1/2"	48.8	25.3	18.5	58.0
LM63020G	63*2	2"	61.5	28.6	25.6	68.1
LM75212G	75*2-1/2	2 1/2"	71.8	31.7	20.2	89.2
LM90030G	90*3	3"	86.5	38.0	21.9	101.5
LM11040G	110*4	4"	106.1	38.2	26.3	116.8

ADAPTADOR RETO MACHO



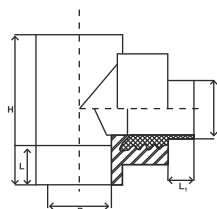
CÓDIGO	Ø	ROSCA	D	L	L1	H
AD20120G	20*1/2	1/2"	19.2	16.2	14.2	57.0
AD25120G	25*1/2	1/2"	23.8	18.3	14.2	56.0
AD25340G	25*3/4	3/4"	24.1	18.2	14.1	59.1
AD32120G	32*1/2	1/2"	31.1	19.8	14.0	64.5
AD32025G	32*3/4	3/4"	31.1	20.3	14.2	67.8
AD32010G	32*1	1"	31.1	20.2	28.0	71.8
AD40114G	40*1-1/4	1 1/4"	38.8	22.1	14.1	76.0
AD50112G	50*1-1/2	1 1/2"	48.9	25.5	21.3	80.0
AD63020G	63*2	2"	62.2	29.5	26.3	95.2
AD75212G	75*2-1/2	2 1/2"	72.0	32.4	24.9	100.5
AD90030G	90*3	3"	86.4	38.2	24.6	109.2
AD11040G	110*4	4"	104.9	38.1	25.5	119.0

TE MISTO ROSCA FÊMEA



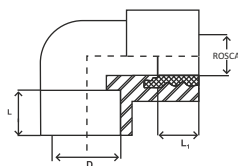
CÓDIGO	TAMANHO	ROSCA	D	L	L1	H
TF20120G	20*1/2	1/2"	19.2	15.0	14.0	58.2
TF25120G	25*1/2	1/2"	24.2	14.9	14.0	62.2
TF25340G	25*3/4	3/4"	24.2	16.2	13.9	63.8
TF32120G	32*1/2	1/2"	31.3	15.0	14.2	78.0
TF32340G	32*3/4	3/4"	31.3	16.2	14.2	78.2
TF32010G	32*1	1"	31.2	17.7	15.8	77.8

TE MISTO ROSCA MACHO



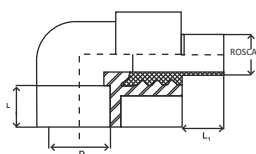
CÓDIGO	TAMANHO	ROSCA	D	L	L1	H
TM20120G	20*1/2	1/2"	19.2	16.5	14.0	58.2
TM25120G	25*1/2	1/2"	24.2	18.2	14.0	62.2
TM25340G	25*3/4	3/4"	24.2	17.6	13.9	63.8
TM32120G	32*1/2	1/2"	31.3	20.0	14.2	78.0
TM32340G	32*3/4	3/4"	31.3	20.0	14.2	78.2
TM32010G	32*1	1"	31.2	20.0	15.8	77.8
TM40114G	40-1-1/4	1 1/4"	39.0	21.4	15.2	91.0

JOELHO FÊMEA



CÓDIGO	TAMANHO	ROSCA	D	L	L1
JM20120G	20*1/2	1/2"	19.2	16.1	16.0
JM25120G	25*1/2	1/2"	24.1	17.9	15.0
JM25340G	25*3/4	3/4"	24.2	17.9	16.0
JM32010G	32*1	1"	31.2	20.3	18.3

JOELHO MACHO



CÓDIGO	TAMANHO	ROSCA	D	L	L1
JO20120G	20*1/2	1/2"	19.2	16.1	15.0
JO25120G	25*1/2	1/2"	24.1	17.9	15.0
JO25340G	25*3/4	3/4"	24.2	18.0	14.2
JO32010G	32*1	1"	31.3	20.1	27.0

VÁLVULA ESFERA ALAVANCA



CÓDIGO	Ø (mm)
VE200G	20 MM
VE250G	25 MM
VE320G	32 MM
VE400G	40 MM
VE500G	50 MM
VE630G	63 MM

DERIVAÇÃO DE RAMAL



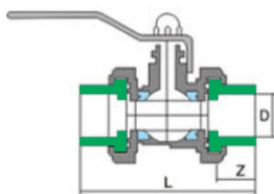
CÓDIGO	Ø (mm)
DR5025G	50/25
DR6325G	63/25
DR7525G	75/25
DR9025G	90/25
DR9032G	90/32
DR11025G	110/25
DR11032G	110/32

UNIÃO FLANGEADA



CÓDIGO	Ø (mm)
UNFA500G	DN50
UNFA630G	DN63
UNFA750G	DN75
UNFA900G	DN90
UNFA110G	DN110
UNFA160G	DN160

VÁLVULA DE ESFERA ALAVANCA



CÓDIGO	Ø (mm)	D	L	Z
RES200G	DN20	27,50	101,00	16,50
RES250G	DN25	34,80	113,00	18,50
RES320G	DN32	42,20	131,00	20,50
RES400G	DN40	52,50	133,00	22,50
RES500G	DN50	65,30	153,00	25,50
RES630G	DN63	83,00	165,00	29,50
RES750G	DN75	-	-	-

CURVA 90°



CÓDIGO	Ø (mm)
CL200G	DN20
CL250G	DN25

ABRAÇADEIRA



* Rosca da porca M10x1,5

CÓDIGO	Ø (mm)
XK200000	DN20
XK250000	DN25
XK320000	DN32
XK400000	DN40
XK500000	DN50
XK630000	DN63

ABRAÇADEIRA



CÓDIGO	Ø (mm)
JK200000	DN20
JK250000	DN25
JK320000	DN32
JK400000	DN40
JK500000	DN50
JK630000	DN63

ABRAÇADEIRA



CÓDIGO	Ø (mm)
KK200000	DN20
KK250000	DN25
KK320000	DN32
KK400000	DN40
KK500000	DN50
KK630000	DN63

NIPLE



CÓDIGO	Ø (mm)
N-04-P	G1/2"-G1/2"
N-06-P	G3/4"-G3/4"
N-10-P	G1"-G1"
N-14-P	G1.1/2"-G1.1/2"
N-20-P	G2"-G2"

NIPLE DE REDUÇÃO



CÓDIGO	Ø (mm)
N-20-14-P	G2"-G1.1/2"
N-14-10-P	G1.1/2"-G1"
N-10-06-P	G1"-G3/4"
N-06-04-P	G3/4"-G1/2"

FERRAMENTAS

TERMOFUSORA



TRF2040*

CÓDIGO	Ø (mm)
TRF2063	20~63
TRF2040	20~40
TRF75110	75~110

BOCAL PARA TERMOFUSORA



CÓDIGO	Ø (mm)
WM-20	20
WM-25	25
WM-32	32
WM-40	40
WM-50	50
WM-63	63
WM-75	75
WM-90	90
WM-110	110
WM-160	160

CORTADOR DE TUBO



CÓDIGO	Ø (mm)
TSR2040	20~40



CÓDIGO	Ø (mm)
TSR2040P	20~40



CÓDIGO	Ø (mm)
TSR2075	20~75

INSTALAÇÃO DO PRODUTO



REALIZANDO A TERMOFUSÃO

O processo de união de tubos e conexões PPR-C é bastante simples e resulta em juntas estanques inseparáveis. É realizado usando uma máquina de solda simples que funde a superfície interna da conexão e a superfície externa do tubo, de modo que o material do tubo e da conexão se fundem, criando uma ligação sólida.

PASSO A PASSO DO PROCESSO DE SOLDAGEM

Prepare a máquina de solda, encaixando as matrizes de soldagem dos diâmetros a serem soldados. Conecte o plugue à tomada de alimentação de 220V e aguarde até que a luz verde na máquina se apague, indicando que a máquina de solda atingiu a temperatura de trabalho.

- Corte o tubo em ângulo reto com o eixo do tubo usando um cortador de tubos adequado.
- Remova rebarbas ou lascas de corte, desbastando a área de corte.
- Marque a profundidade de soldagem no tubo usando um marcador adequado.
- Insira a extremidade do tubo, sem girar, na luva de aquecimento até a profundidade de soldagem marcada, ao mesmo tempo em que desliza a conexão, sem girar, para o outro lado da ferramenta de aquecimento até parar. É essencial observar os tempos de aquecimento mencionados (consulte a tabela abaixo).
- Deixe o tubo e a conexão na ferramenta de aquecimento até que o tempo de aquecimento seja concluído.
- Ao final do tempo de aquecimento, remova o tubo e a conexão da ferramenta de aquecimento e pressione-os imediatamente um contra o outro até a marca que indica a profundidade de soldagem. Nesta etapa, a marca de profundidade será coberta com a costura de solda.
- Durante esse processo, não gire o tubo e a conexão um em relação ao outro.
- Permita que a junta esfrie completamente antes de usar.

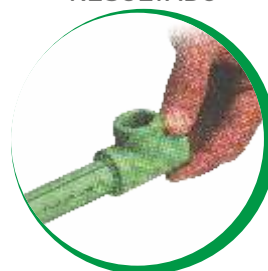
PASSO 01



PASSO 02



RESULTADO



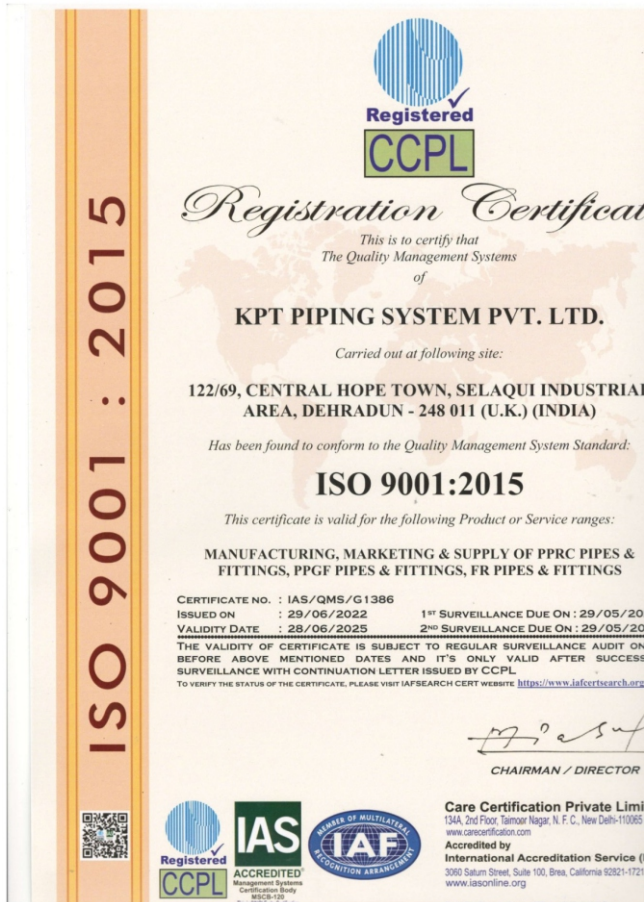
Tempo Recomendado para Fusão em PPR

Ø TUBO (mm)	PROFUNDIDADE DE SOLDA (mm)	TEMPO DE AQUECIM (SEG)	TEMPO DE SOLDAGEM (SEG)	TEMPO DE RESFRIAM. (MIN)
16	14.0	6	4	2
20	14.5	6	4	2
25	16.0	7	4	2
32	18.0	8	6	4
40	20.5	12	6	4
50	23.5	18	6	4
63	27.5	24	8	6
75	30.0	30	8	6
90	32.5	40	8	6
110	37.0	50	10	8
160	42.0	60	15	10

Tempo para Juntas Tipo Butt em Sistemas PPR

Ø TUBO (mm)	TEMPERATURA DA MÁQUINA DE SOLDAGEM °C	TEMPO DE AQUECI. (MIN)	TEMPO DE SOLDAGEM (SEG)	TEMPO DE RESFRIAM. (MIN)
200	220-240	30	180	15-20
250	220-240	30	240	16-24
315	225-240	30	300	20-25
355	225-240	30	360	25-30
400	225-240	30	420	30-35

NOSSAS CERTIFICAÇÕES



Approval Number 1805543
Test Report: MAT/LAB 1308 rev. 1

25th July 2022
KPT Piping System Pvt. Ltd.
122/69, Central Hope Town,
Industrial Area Selaqui,
Dehradun,
Uttarakhand,
India



Water Regulations Approval Scheme Ltd.
Unit 13,
Willow Road,
Pen-y-Fan Industrial Estate,
Cwmffwrdd,
Gwent,
NP11 4EG

WATER REGULATIONS APPROVAL SCHEME LTD. (WRAS) MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 "Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water".

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

POLYPROPYLENE- COMPONENTS.

5260

"K.P.T. Pipe", Green coloured (with Blue stripe), extruded pipe. For use with water up to 70°C.

APPROVAL NUMBER: 1805543

APPROVAL HOLDER: KPT PIPING SYSTEM PVT. LTD.

The Scheme reserves the right to review approval.
Approval 1805543 is valid between May 2018 and May 2023

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wrasapproval.co.uk/approval-directory/

Yours Faithfully

Ian Hughes
WRAS Approvals Manager

HYOSUNG CHEMICAL

235, Bangso-Daero, Seocha-Gu,
Seoul, Korea, 06578
Tel: +82 (0) 2148 5451-8
Fax: +82 (0) 2148 5426
www.hyosungchemical.com

TO KANHIA PLASTICS PRIVATE LIMITED,

April 14, 2022

Letter of Certificate

► Grade 1 TOPILENE® R200P

We, HYOSUNG CHEMICAL CORPORATION, hereby certify that KPT PIPING SYSTEM PRIVATE LIMITED is using 100% our TOPILENE® R200P for PPR pipe production without mixing any other PPR material from other suppliers. We have inspected the plant of KPT PIPING SYSTEM PRIVATE LIMITED and verified using TOPILENE® R200P exclusively.

Yong Sung Lee
Chief of Market Development Team
PP/DH Performance Unit,
HYOSUNG CHEMICAL CORPORATION

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

KPT Piping System Private Limited
India

AS COMPLYING WITH NSF/ANSI/CAN 61 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



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April 15, 2022
Certificate C040295 - 01

David Purves
Vice President, Global Water Division

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

KPT Piping System Private Limited
Facility: Uttarakhand, India

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April 15, 2022
Certificate C040295 - 01

David Purves
Vice President, Global Water Division



CERTIFICAÇÃO ISO 9001:2015 E ISO 14001:2015

KPT TUBOS E CONEXÕES LTDA

Rua Málaga, nº 381 - Bairro Jardim Bertoni - CEP 13.478-743 - Americana/SP

✉ vendas@kptconexoes.com.br

www.kptconexoes.com.br