

## TUBO E ACESSÓRIOS PPR

Os Tubos PPR (Polipropileno Copolímero Random) são tubos versáteis, servem para instalações de água potável, para sistemas de distribuição de água fria e quente, sistemas de climatização, sistemas de aquecimento, transporte de fluidos industriais e sistemas de ar comprimido.

Podem ser utilizados por fora ou por dentro dos muros, sem ser necessário proteger os mesmos contra a oxidação, corrosão ou outros ataques químicos exteriores.

Os Tubos PPR e os respetivos acessórios dispõem de Certificação AENOR, sendo que apresentam alto nível de durabilidade e fiabilidade, baixo nível de condutividade térmica e rugosidade.

Os Tubos PPR são de instalação simples e rápida, podendo assim garantir uma instalação contínua.



### TUBO PPR AZUL

296 Tubo PPR Azul

### ACESSÓRIOS PPR AZUL

296 Acessórios PPR Azul

### TUBO PPR VERDE

298 Tubo PPR Verde

### ACESSÓRIOS PPR VERDE

298 Acessórios PPR Verde

## POLIFUSORAS | MÁQUINAS TESTE

300 Polifusoras | Máquinas Teste





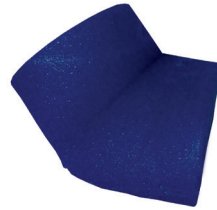
### TUBO PPR PN20 AZUL

Art.:165101	20x3.4	€0.91	100mt
Art.:165102	25x4.2	€1.33	80mt
Art.:165103	32x5.4	€2.48	60mt
Art.:165104	40x6.7	€4.20	40mt
Art.:165105	50x8.3	€7.98	20mt
Art.:165106	63x10.5	€10.98	16mt
Art.:165107	75x12.5	€19.21	12mt
Art.:165108	90x15.0	€29.95	8mt



### JOELHO FF 90° PPR AZUL

Art.:165201	20	€0.14	400
Art.:165202	25	€0.24	200
Art.:165203	32	€0.45	125
Art.:165204	40	€0.80	60
Art.:165205	50	€1.72	30
Art.:165206	63	€3.10	18
Art.:165207	75	€5.16	12
Art.:165208	90	€9.54	5



### JOELHO FF 45° PPR AZUL

Art.:165301	20	€0.21	500
Art.:165302	25	€0.24	350
Art.:165303	32	€0.48	150



### TÊ FFF PPR AZUL

Art.:165401	20	€0.24	240
Art.:165402	25	€0.32	150
Art.:165403	32	€0.66	75
Art.:165404	40	€1.30	50
Art.:165405	50	€2.74	30
Art.:165406	63	€3.75	16
Art.:165407	75	€5.83	12
Art.:165408	90	€11.34	6



### TÊ DE REDUÇÃO FFF PPR AZUL

Art.:165501	25x20x20	€0.28	200
Art.:165502	25x20x25	€0.32	150
Art.:165503	32x20x20	€0.82	90
Art.:165504	32x20x32	€0.82	80
Art.:165505	32x25x32	€0.68	80
Art.:165506	40x20x40	€1.36	60
Art.:165507	40x25x40	€1.30	60
Art.:165508	40x32x40	€1.35	50
Art.:165509	50x25x50	€1.84	32
Art.:165510	50x32x50	€1.90	32
Art.:165511	50x40x50	€1.82	32
Art.:165521	63x20x63	€2.84	18
Art.:165522	63x25x63	€2.89	18
Art.:165523	63x32x63	€2.93	18

Art.:165524	63x40x63	€2.95	18
Art.:165525	63x50x63	€2.98	18
Art.:165527	75x25x75	€7.01	12
Art.:165528	75x32x75	€7.01	12
Art.:165529	75x40x75	€7.13	12
Art.:165530	75x50x75	€7.13	12
Art.:165531	75x63x75	€7.25	12
Art.:165533	90x25x90	€10.23	6
Art.:165534	90x32x90	€10.24	6
Art.:165535	90x40x90	€10.24	6
Art.:165536	90x50x90	€10.24	6
Art.:165537	90x63x90	€10.24	6
Art.:165538	90x75x90	€10.48	6



### UNIÃO REDUÇÃO MF PPR AZUL

Art.:165701	25x20	€0.12	600
Art.:165702	32x20	€0.20	150
Art.:165703	32x25	€0.21	90
Art.:165704	40x20	€0.36	80
Art.:165708	40x25	€0.48	80
Art.:165705	40x32	€0.60	160
Art.:165706	50x25	€0.89	140
Art.:165709	50x32	€1.29	50
Art.:165707	50x40	€1.32	32
Art.:165715	63x25	€1.60	80

Art.:165716	63x32	€1.60	64
Art.:165717	63x40	€1.60	64
Art.:165718	63x50	€1.60	52
Art.:165721	75x50	€2.28	30
Art.:165722	75x63	€2.56	30
Art.:165727	90x40	€2.63	20
Art.:165728	90x50	€2.80	20
Art.:165729	90x63	€3.18	20
Art.:165730	90x75	€3.42	20



### UNIÃO SIMPLES FF PPR AZUL

Art.:165601	20	€0.12	600
Art.:165602	25	€0.15	300
Art.:165603	32	€0.26	200
Art.:165604	40	€0.57	100
Art.:165605	50	€1.16	80
Art.:165606	63	€1.95	36
Art.:165607	75	€2.90	24
Art.:165608	90	€5.05	12



### TAMPÃO FÊMEA PPR AZUL

Art.:165801	20	€0.14	800
Art.:165802	25	€0.19	500
Art.:165803	32	€0.30	300
Art.:165804	40	€0.43	200
Art.:165805	50	€1.72	100
Art.:165806	63	€2.14	60



### ABRAÇADEIRA SIMPLES PPR AZUL

Art.:166001	20	€0.09	900
Art.:166002	25	€0.13	900
Art.:166003	32	€0.21	600



### JOELHO DUPLO PPR AZUL

Art.:166208	20x1/2x1/2	€2.79	50
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### PASSADOR DE ESFERA PPR AZUL

Art.:166981	1/2	€4.94	80
Art.:166982	3/4	€6.03	50
Art.:166983	1"	€8.58	60


**CASQUILHO COM ROSCA FÊMEA PPR AZUL**

Art.:166301	20x1/2	€1.36	250
Art.:166302	20x3/4	€1.99	160
Art.:166303	25x1/2	€1.68	160
Art.:166304	25x3/4	€2.09	160
Art.:166305	32x3/4	€2.30	100
Art.:166306	32x1"	€3.15	100
Art.:166307	40x1"1/4	€11.40	40
Art.:166308	50x1"1/2	€14.52	42
Art.:166309	63x2"	€24.54	24
Art.:166310	75x2"1/2	€38.44	8
Art.:166311	90x3"	€58.78	6


**CASQUILHO COM ROSCA MACHO PPR AZUL**

Art.:166501	20x1/2	€1.69	250
Art.:166502	20x3/4	€2.30	160
Art.:166503	25x1/2	€1.86	160
Art.:166504	25x3/4	€2.15	160
Art.:166505	32x3/4	€2.22	100
Art.:166506	32x1"	€3.37	100
Art.:166507	40x1"1/4	€14.44	40
Art.:166508	50x1"1/2	€17.08	21
Art.:166509	63x2"	€20.58	24


**JOELHO 90° COM ROSCA FÊMEA PPR AZUL**

Art.:166601	20x1/2	€1.42	240
Art.:166602	20x3/4	€2.02	200
Art.:166603	25x1/2	€1.62	120
Art.:166604	25x3/4	€2.16	120
Art.:166605	32x3/4	€2.81	60
Art.:166606	32x1"	€3.33	60


**JOELHO 90° COM ROSCA MACHO PPR AZUL**

Art.:166701	20x1/2	€1.82	80
Art.:166702	20x3/4	€2.41	75
Art.:166703	25x1/2	€2.10	60
Art.:166704	25x3/4	€2.34	60
Art.:166705	32x3/4	€3.95	30
Art.:166706	32x1"	€4.74	30


**UNIÃO DE CRUZAMENTO PPR AZUL**

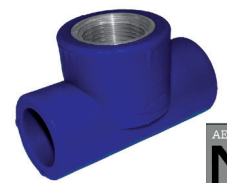
Art.:165901	20	€0.74	75
Art.:165902	25	€1.14	60
Art.:165903	32	€2.04	40


**ADAPTADOR FÊMEA PPR AZUL**

Art.:166401	20x1/2	€2.82	200
Art.:166402	25x3/4	€4.31	100
Art.:166403	32x1"	€5.22	100


**JOELHO COM PATER PPR AZUL**

Art.:166201	20x1/2	€1.61	150
Art.:166202	25x1/2	€2.28	120
Art.:166203	25x3/4	€2.94	120


**TÊ ROSCA AO CENTRO PPR AZUL**

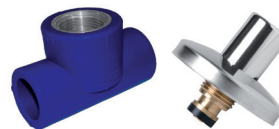
Art.:166801	20x1/2x20	€1.52	160
Art.:166802	20x3/4x20	€2.29	60
Art.:166803	25x1/2x25	€1.95	100
Art.:166804	25x3/4x25	€2.36	100
Art.:166805	32x3/4x32	€2.98	60
Art.:166806	32x1"x32	€3.48	30


**PASSADOR COMPLETO TRICÓRNIO PPR AZUL**

Art.:167051	20x1/2	€10.38	120
Art.:167052	25x3/4	€12.40	100


**PASSADOR COMPLETO SÓNIA PPR AZUL**

Art.:167053	20x1/2	€10.00	120
Art.:167054	25x3/4	€12.06	100


**PASSADOR COMPLETA PPR AZUL**

Art.:167001	20x1/2	€6.96	120
Art.:167003	25x3/4	€8.88	100


**UNIÃO COM PORCA LOUCA PPR AZUL**

Art.:166381	20x1/2	€1.71	180
Art.:166382	25x3/4	€2.32	150
Art.:166383	32x1"	€5.90	160


**CAIXA PASSADOR PPR AZUL**

Art.:166901	20x1/2	€1.70	120
Art.:166903	25x3/4	€2.98	100


**ADAPTADOR PARA MISTURADORA PPR AZUL**

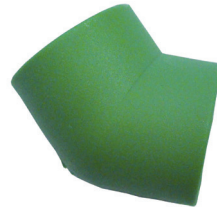
Art.:166991	20x1/2	€3.90	50
Art.:166992	25x1/2	€4.32	40


**TUBO PPR PN20 VERDE**

Art.:160101	20x3.4	€0.91	100mt
Art.:160102	25x4.2	€1.33	80mt
Art.:160103	32x5.4	€2.48	60mt
Art.:160104	40x6.7	€4.20	40mt
Art.:160105	50x8.3	€7.98	20mt
Art.:160106	63x10.5	€10.98	16mt


**JOELHO FF 90° PPR VERDE**

Art.:160201	20	€0.14	400
Art.:160202	25	€0.24	200
Art.:160203	32	€0.45	125
Art.:160204	40	€0.80	60
Art.:160205	50	€1.72	30
Art.:160206	63	€3.10	18


**JOELHO FF 45° PPR VERDE**

Art.:160301	20	€0.21	500
Art.:160302	25	€0.24	350
Art.:160303	32	€0.48	150
Art.:160304	40	€0.81	80
Art.:160305	50	€1.56	48


**TÊ FFF PPR VERDE**

Art.:160401	20	€0.24	240
Art.:160402	25	€0.32	150
Art.:160403	32	€0.66	75
Art.:160404	40	€1.30	50
Art.:160405	50	€2.74	30


**TÊ DE REDUÇÃO FFF PPR VERDE**

Art.:160501	25x20x20	€0.28	200
Art.:160502	25x20x25	€0.32	150
Art.:160503	32x20x20	€0.82	90
Art.:160504	32x20x32	€0.82	80
Art.:160505	32x25x32	€0.68	80
Art.:160515	32x32x25	€0.68	80
Art.:160506	40x20x40	€1.36	60
Art.:160507	40x25x40	€1.30	60
Art.:160508	40x32x40	€1.35	50
Art.:160509	50x32x50	€1.90	32
Art.:160510	50x40x50	€1.82	32


**UNIÃO SIMPLES FF PPR VERDE**

Art.:160601	20	€0.12	600
Art.:160602	25	€0.15	300
Art.:160603	32	€0.26	200
Art.:160604	40	€0.57	100
Art.:160605	50	€1.16	80


**UNIÃO REDUÇÃO MF PPR VERDE**

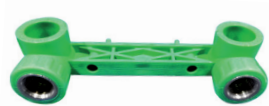
Art.:160701	25x20	€0.12	600
Art.:160702	32x20	€0.20	300
Art.:160703	32x25	€0.21	300
Art.:160704	40x20	€0.36	250
Art.:160708	40x25	€0.48	200
Art.:160705	40x32	€0.60	160
Art.:160706	50x25	€0.89	140
Art.:160709	50x32	€1.29	125
Art.:160707	50x40	€1.32	80


**TAMPÃO FÊMEA PPR VERDE**

Art.:160801	20	€0.14	800
Art.:160802	25	€0.19	500
Art.:160803	32	€0.30	300
Art.:160804	40	€0.43	200
Art.:160805	50	€1.73	100


**UNIÃO DE CRUZAMENTO PPR VERDE**

Art.:160901	20	€0.74	75
Art.:160902	25	€1.14	60
Art.:160903	32	€2.04	40
Art.:160904	40	€3.29	30


**ADAPTADOR PARA MISTURADORA PPR VERDE**

Art.:162401	20x1/2	€3.90	50
Art.:162402	25x1/2	€4.32	40


**ABRAÇADEIRA SIMPLES PPR VERDE**

Art.:161001	20	€0.09	900
Art.:161002	25	€0.13	900
Art.:161003	32	€0.21	600


**UNIÃO COM PORCA LOUCA PPR VERDE**

Art.:161381	20x1/2	€1.71	180
Art.:161382	25x3/4	€2.32	150
Art.:161383	32x1"	€5.90	160



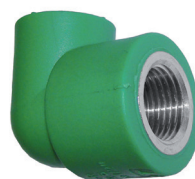
**CASQUILHO COM ROSCA FÊMEA PPR VERDE**

Art.:161301	20x1/2	€1.36	250
Art.:161302	20x3/4	€1.99	160
Art.:161303	25x1/2	€1.68	160
Art.:161304	25x3/4	€2.09	160
Art.:161305	32x3/4	€2.30	100
Art.:161306	32x1"	€3.15	100
Art.:161307	40x1"1/4	€11.40	40
Art.:161308	50x1"1/2	€14.52	42



**CASQUILHO COM ROSCA MACHO PPR VERDE**

Art.:161501	20x1/2	€1.69	250
Art.:161502	20x3/4	€2.30	160
Art.:161503	25x1/2	€1.86	160
Art.:161504	25x3/4	€2.15	160
Art.:161505	32x3/4	€2.22	100
Art.:161506	32x1"	€3.37	100
Art.:161507	40x1"1/4	€14.44	40
Art.:161508	50x1"1/2	€17.08	21



**JOELHO 90º COM ROSCA FÊMEA PPR VERDE**

Art.:161601	20x1/2	€1.42	240
Art.:161602	20x3/4	€2.02	200
Art.:161603	25x1/2	€1.62	120
Art.:161604	25x3/4	€2.16	120
Art.:161605	32x3/4	€2.81	60
Art.:161606	32x1"	€3.33	60



**JOELHO 90º COM ROSCA MACHO PPR VERDE**

Art.:161701	20x1/2	€1.82	80
Art.:161702	20x3/4	€2.41	75
Art.:161703	25x1/2	€2.10	60
Art.:161704	25x3/4	€2.34	60
Art.:161705	32x3/4	€3.95	30
Art.:161706	32x1"	€4.74	30



**ADAPTADOR FÊMEA PPR VERDE**

Art.:161401	20x1/2	€2.82	200
Art.:161402	25x3/4	€4.31	75
Art.:161403	32x1"	€5.22	100



**JOELHO COM PATER PPR VERDE**

Art.:161201	20x1/2	€1.61	150
Art.:161202	25x1/2	€2.28	120
Art.:161203	25x3/4	€2.94	120



**TÊ ROSCA AO CENTRO PPR VERDE**

Art.:161801	20x1/2x20	€1.52	160
Art.:161802	20x3/4x20	€2.29	60
Art.:161803	25x1/2x25	€1.95	100
Art.:161804	25x3/4x25	€2.36	100
Art.:161805	32x3/4x32	€2.98	50
Art.:161807	32x1/2x32	€3.22	20
Art.:161806	32x1"x32	€3.48	30



**PASSADOR DE ESFERA PPR VERDE**

Art.:161981	1/2	€4.94	80
Art.:161982	3/4	€6.03	50
Art.:161983	1"	€8.58	60



**CAIXA PASSADOR PPR VERDE**

Art.:161901	20x1/2	€1.70	120
Art.:161902	20x3/4	€3.30	120
Art.:161903	25x3/4	€2.98	100
Art.:161905	32x1"	€5.80	100



**PASSADOR COMPLETO TRICÓRNIO PPR VERDE**

Art.:162501	20x1/2	€10.38	120
Art.:162502	25x3/4	€12.40	100



**PASSADOR COMPLETO SÓNIA PPR VERDE**

Art.:162503	20x1/2	€10.00	120
Art.:162504	25x3/4	€12.06	100



**PASSADOR COMPLETO PPR VERDE**

Art.:162001	20x1/2	€6.96	120
Art.:162002	20x3/4	€8.07	100
Art.:162005	25x1/2	€7.98	100
Art.:162003	25x3/4	€8.88	100
Art.:162004	32x1"	€15.44	80



### MÁQUINA PPR SUPER EGO

Art.:167101	Matrizes 20, 25, 32 - 800w	€152.63
Art.:167102	Matrizes 20, 25, 32, 40, 50, 63 - 800w	€215.79



### MÁQUINA POLIFUSORA PPR TML

Art.:162011	Potência: 1500w Temperatura Máx.: 300°C Matrizes: 20, 25, 32, 40, 50 e 63	€119.48	5
Art.:162012	Potência: 1500w Temperatura Máx.: 300°C Matrizes: 20, 25, 32 e 40	€90.00	5

Inclui Fita Métrica de 3mt, Par de Luvas, Nível, Tesoura, Suporte, Matrizes, Chaves de Aperto.



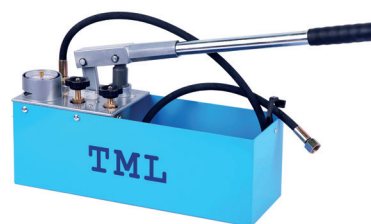
### MATRIZES PARA MÁQUINA PPR

Art.:167201	20	€15.45
Art.:167202	25	€20.05
Art.:167203	32	€26.90
Art.:167204	40	€50.07
Art.:167205	50	€62.25
Art.:167206	63	€70.45
Art.:167207	75	€74.55
Art.:167208	90	€76.68
Art.:167209	110	€78.87



### TACO MACHO 1/2

Art.:138901	Negro	€0.15
Art.:138902	Azul	€0.20
Art.:138903	Vermelho	€0.20



### MÁQUINA DE TESTE DE COMPROVAÇÃO TML

Art.:162015		€139.29
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Pressão Máxi.: 60 bar  
Temperatura Máx.: 50°C  
Comprovação de Água e Óleo



### CASTELO PARA PASSADOR

Art.:162301	1/2 Curto	€5.09
Art.:162302	1/2 Comprido	€6.32
Art.:162303	3/4 Curto	€6.32
Art.:162304	3/4 Comprido	€7.72
Art.:162305	1" Curto	€12.30

Curto: 3cm  
Comprido: 5cm

### TUBO E ESPELHO PARA PASSADOR

Art.:DI00197	Comprido	€3.85
Art.:DI00198	Curto	€2.92



### TESOURA CORTE PPR

Art.:162201		€8.48	20
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