

PRICE LIST & ORDERING GUIDE

Applicable Standards
CSA B 137.1
NSF 61

Philmac 3G
Compression
Fittings
&
Universal
Transition
Couplings

Philmac®



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Price List & Ordering Guide

Introduction

Philmac's new 3G (third generation) thermoplastic compression fittings offer quick and easy installation, dependable performance, and unmatched versatility. Their innovative design combines the latest in material technology with common sense installation features, resulting in a truly superior compression fitting.

This Price List / Ordering Guide has been created to help guide you, the customer, in selecting the correct fitting for your application.

The first two sections list our dedicated fitting options, CTS and ID Series; these dedicated fittings come pre-assembled and ready to use. A wide variety of sizes and configurations are available to suit any connection you need to make.

The third section lists the conversion kits. These conversion kits offer you the flexibility to connect two different pipe types and sizes with the same fitting. CTS, ID Series, IPS, Composite (Q-Line), and Copper pipe can all be connected using a Philmac 3G fitting.

The last section includes Philmac's Universal Transition Fittings. Universal Transition Fittings are designed to work with both metal and plastic pipes, including; Galvanized Iron, Steel, Lead, Aluminium and copper. They also work great for old, corroded, or out-of round pipes. Unlike Philmac 3G which is designed to work with standard pipe sizes, Universal Transition Fittings are designed to work over a range of outside diameters.

Philmac 3G compared to the old Philmac Product Line

Both the old Philmac product line (1G), and the new 3G product range are based on a system of 7 common body sizes that are designed to accommodate all the different pipe types and sizes from 1/2" to 2".

The 1G line used a system of inserts and collets, where different combinations of the insert and collet allowed the fitting to be connected to the different pipe types. The correct body, insert, and collet had to be determined from a list then assembled on site to create the joint.

With Philmac 3G, customers only need to know the size and type of pipe they are connecting to – the need to use a chart to select the correct body, insert, and collet has been eliminated; connecting 1" CTS pipe simply requires a 1" CTS fitting.

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Abbreviations

AWWA	American Water Works Association Thread
CTS	Copper Tube Size
FIPT	Female Iron Pipe Thread
I.D.	Inside Diameter
IPS	Iron Pipe Size
MIPT	Male Iron Pipe Thread
PE	Polyethylene
O.D.	Outside Diameter


Description	Size inches	Product Code	Package Qty.	Unit Price
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CTSOD Fittings


Couplings Compression x Compression

	3/4	258000	10	\$	24.45
	1	258001	10	\$	30.55
	1 1/4 x 1 1/4	258002	10	\$	36.25
	1 1/2	258003	1	\$	76.00
	2	258004	1	\$	119.00


Reducing Couplings Compression x Compression

	1 x 3/4	258005	10	\$	22.35
	1 1/4 x 1	258131	5	\$	30.10

Male Adapters Compression x MIPT

	3/4 x 1/2	258006	10	\$	19.15
	3/4	258007	10	\$	19.30
	1 x 1/2	258008	10	\$	20.30
	1 x 3/4	258009	10	\$	20.30
	1	258010	10	\$	21.35
	1 1/4 x 3/4	258011	5	\$	27.50
	1 1/4 x 1	258012	5	\$	27.50
	1 1/4	258013	5	\$	29.65
	1 1/2 x 1	258014	1	\$	43.45
	1 1/2 x 1 1/4	258015	1	\$	43.90
	1 1/2	258016	1	\$	44.10
	2 x 1 1/2	258017	1	\$	52.50
	2	258018	1	\$	52.85

Female Adapters Compression x FIPT


	3/4 x 1/2	258019	10	\$	22.55
	3/4	258020	10	\$	22.55
	1 x 3/4	258021	10	\$	23.65
	1	258022	10	\$	25.85
	1 1/4 x 1	258023	5	\$	33.85
	1 1/4	258024	5	\$	36.35
	1 1/2 x 1 1/4	258025	1	\$	53.85
	1 1/2	258026	1	\$	56.00
	2 x 1 1/2	258027	1	\$	73.00
	2	258028	1	\$	73.00

Note: Philmac 3G CTSOD fittings can be used with IPEX GOLD STRIPE pipe or any other CTSOD PE Pipe.


Description	Size inches	Product Code	Package Qty.	Unit Price
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CTSOD Fittings


Elbow Compression x Compression

	3/4	258029	10	\$	28.20
	1	258030	10	\$	30.70
	1 1/4	258031	5	\$	45.15
	1 1/2	258032	1	\$	83.00
	2	258033	1	\$	112.00


Elbow Compression x FIPT

	3/4	258034	10	\$	27.95
	1 x 3/4	258035	10	\$	29.00
	1	258036	10	\$	29.00
	1 1/4 x 1	258037	5	\$	37.75
	1 1/4	258038	5	\$	45.70
	1 1/2 x 1 1/4	258039	1	\$	59.00
	1 1/2	258040	1	\$	63.00


End Caps Compression

	3/4	258151	10	\$	14.10
	1	258152	10	\$	17.70
	1 1/4	258153	5	\$	25.00
	1 1/2	258154	5	\$	28.85

Tee Compression

	3/4	258042	10	\$	38.60
	1	258043	5	\$	41.65
	1 1/4	258044	5	\$	63.00
	1 1/2	258045	1	\$	109.00

Tee Compression x Compression x FIPT

	3/4	258047	10	\$	36.20
	1 x 3/4	258048	10	\$	38.55
	1	258049	10	\$	39.10
	1 1/4 x 3/4	258050	5	\$	52.85
	1 1/4 x 1	258051	5	\$	53.60
	1 1/4	258052	5	\$	58.00
	1 1/2 x 3/4	258053	1	\$	84.00
	1 1/2 x 1 1/4	258054	1	\$	104.00
	1 1/2	258055	1	\$	104.00


Note: Philmac 3G CTSOD fittings can be used with IPEX GOLD STRIPE pipe or any other CTSOD PE Pipe.

Philmac 3G Fittings


Description	Size inches	Product Code	Package Qty.	Unit Price
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ID Series Fittings


Couplings Compression x Compression

	1/2	258059	10	\$	24.45
	3/4 x 1/2	258065	10	\$	28.35
	3/4	258060	10	\$	30.55
	1	258061	5	\$	44.55
	1 1/4	258062	1	\$	76.00
	1 1/2	258063	1	\$	95.00
	2	258064	1	\$	120.00

Male Adapters Compression x MIPT

	1/2	258066	10	\$	18.65
	1/2 x 3/4	258067	10	\$	19.30
	3/4 x 1/2	258068	10	\$	20.30
	3/4	258069	10	\$	20.30
	3/4 x 1	258070	10	\$	21.35
	1 x 3/4	258071	5	\$	27.40
	1	258072	5	\$	27.40
	1 x 1 1/4	258073	5	\$	29.50
	1 1/4 x 1	258074	1	\$	43.45
	1 1/4	258075	1	\$	43.90
	1 1/4 x 1 1/2	258076	1	\$	44.10
	1 1/2	258077	1	\$	52.50
	1 1/2 x 2	258078	1	\$	52.85
	2	258079	1	\$	71.00

Female Adapters Compression x FIPT

	1/2	258080	10	\$	22.55
	1/2 x 3/4	258081	10	\$	22.55
	3/4	258082	10	\$	23.65
	3/4 x 1	258083	10	\$	25.85
	1	258084	5	\$	33.65
	1 x 1 1/4	258085	5	\$	36.25
	1 1/4	258086	1	\$	53.85
	1 1/4 x 1 1/2	258087	1	\$	56.00
	1 1/2	258088	1	\$	73.00
	1 1/2 x 2	258089	1	\$	73.00
	2	258090	1	\$	91.00


Note: ID Series fittings can be used with all IPEX Pipe with a Stripe (except Gold Stripe) and other ID series PE Pipe

Philmac 3G Fittings


Description	Size inches	Product Code	Package Qty.	Unit Price
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ID Series Fittings


Elbow Compression x Compression

	1/2	258091	10	\$	28.20
	3/4	258092	10	\$	30.70
	1	258093	5	\$	45.00
	1 1/4	258094	1	\$	83.00
	1 1/2	258095	1	\$	112.00
	2	258096	1	\$	143.00


Elbow Compression x FIPT

	1/2 x 3/4	258097	10	\$	27.95
	3/4	258098	10	\$	29.00
	3/4 x 1	258099	10	\$	31.25
	1	258100	5	\$	40.85
	1 x 1 1/4	258101	5	\$	51.00
	1 1/4	258130	1	\$	63.00


Tee Compression

	1/2	258102	10	\$	38.60
	3/4	258103	5	\$	41.65
	1	258104	5	\$	63.00
	1 1/4	258105	1	\$	109.00
	1 1/2	258106	1	\$	140.00

Tee Compression x Compression x FIPT

	3/4	258107	10	\$	34.40
	1 x 1/2	258108	5	\$	46.25
	1	258109	5	\$	47.00
	1 1/4 x 1/2	258110	1	\$	73.00
	1 1/4 x 3/4	258111	1	\$	76.00
	1 1/4 x 1 1/2	258112	1	\$	99.00
	1 1/2 x 2	258113	1	\$	126.00

End Caps Compression

	1/2	258114	10	\$	5.85
	3/4	258115	10	\$	5.95
	1	258116	5	\$	8.10
	1 1/4	258117	1	\$	14.25
	1 1/2	258118	1	\$	16.55
	2	258183	1	\$	48.10


Note: ID Series fittings can be used with all IPEX Pipe with a Stripe (except Gold Stripe) and other ID series PE Pipe

Philmac 3G Fittings


Description	Size inches	Product Code	Package Qty.	Unit Price
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Adapter Kits


CTS Adapter Kit (Includes Gold Collet, CTS Nut, CTS Seal)

	3/4"	258132	1	\$	5.45
	1"	258133	1	\$	8.25
	1 1/4"	258134	1	\$	13.90
	1 1/2"	258135	1	\$	17.25


ID Series Adapter Kit (Includes Red Collet, Red Insert, ID Series Nut, ID Series Seal)

	1/2	258137	1	\$	12.45
	3/4	258138	1	\$	13.90
	1	258139	1	\$	17.25
	1 1/4"	258140	1	\$	21.35
	1 1/2"	258141	1	\$	27.40
	2"	258142	1	\$	31.80

Q-Line Adapter Kit (Includes Blue Collet, Q-Line Nut, Q-Line Seal)

	3/4	258123	1	\$	6.85
	1	258124	1	\$	9.75

IPS OD Adapter Kit (Includes Green Collet, IPS Nut, IPS Seal)

	3/4	258125	1	\$	5.45
	1	258126	1	\$	8.75
	1 1/4	258127	1	\$	14.25
	1 1/2	258128	1	\$	17.25
	2	258129	1	\$	19.15

Note: These Conversion kits are used to convert CTSOD fittings into Copper, Q-Line or IPSOD fittings.

Simply remove the existing nut, collet and seal from the CTSOD fitting and assemble according to the instructions contained on page 8 of this ordering guide - " **Converting Philmac 3G Fittings** "

Philmac 3G collets and inserts are colour coded according to pipe type, the following chart lists the 5 pipe types and their corresponding Philmac 3G colour :

Pipe Type	Philmac 3G Collet Colour
CTS	Gold
ID Series	Red
IPS	Green
Q-Line	Blue
Copper	Brown


Universal Transition Couplings & Fittings

Description	Size Range	Product Code	Package Qty.	Unit Price
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Coupling UTC x UTC

	15mm - 21mm x 15mm - 21mm	255208	10	\$ 47.65
	21mm - 27mm x 21mm - 27mm	255209	10	\$ 70.00
	27mm - 34mm x 27mm - 34mm	255210	10	\$ 99.00
	34mm - 39mm x 34mm - 39mm	255946	5	\$ 104.00
	39mm - 43mm x 39mm - 43mm	255211	5	\$ 109.00
	47mm - 49mm x 47mm - 49mm	255947	2	\$ 156.00
	59mm - 61mm x 59mm - 61mm	255948	2	\$ 197.00


Reducing Coupling UTC x UTC

	21mm - 27mm x 15mm - 21mm	255212	10	\$ 54.50
	27mm - 34mm x 15mm - 21mm	255214	10	\$ 79.00
	27mm - 34mm x 21mm - 27mm	255213	10	\$ 79.00
	34mm - 39mm x 27mm - 34mm	255197	5	\$ 89.00
	39mm - 43mm x 27mm - 34mm	255215	5	\$ 109.00


Elbow UTC x UTC

	15mm - 21mm x 15mm - 21mm	255156	10	\$ 63.00
	21mm - 27mm x 21mm - 27mm	255157	10	\$ 91.00


Tee UTC x UTC x UTC

	15mm - 21mm x 15mm - 21mm x 15mm - 21mm	255158	10	\$ 84.00
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Tee UTC X UTC x FIPT

	15mm - 21mm x 3/4 FIPT	255159	10	\$ 39.50
	21mm - 27mm x 3/4 FIPT	255167	10	\$ 56.00

Male Adapter UTC X MIPT

	15mm - 21mm x 3/4 MIPT	255169	10	\$ 44.25
	21mm - 27mm x 3/4 MIPT	255344	10	\$ 51.90
	27mm - 34mm x 3/4 MIPT	255345	10	\$ 69.00
	27mm - 34mm x 1 MIPT	255196	10	\$ 79.00

Universal Transition Couplings (UTC) & Fittings

- Universal transition couplings are the ideal solution for connecting a wide variety of pipes.
- One coupling connects copper, galvanized iron, PVC, lead and even PE and PEX.
- Wide tolerance range allows seven couplings to cover pipe sizes from 1/2" to 2".
- Easy to fit "Slide & Tighten" technology.
- Couplings are end-load resistant with no restraint needed to prevent pipe pull-out.

CONVERTING PHILMAC 3G FITTINGS

Philmac 3G Compression Fittings offer the flexibility to connect to 5 different types of pipe; 3 polyethylene pipe types (CTS, ID Series and, IPS), Composite, and Copper.

There are two dedicated fittings, CTS and ID Series, which come preassembled and ready to use. That leaves the three others; IPS, XPA, and Copper that require a conversion kit. Converting a Philmac fitting is very simple and can be done in just a few steps.

The table below shows how the various pipe types and size relate to one another. Each column shows the equivalent joint. Since Philmac fittings are only available in CTS and ID Series, it is essential to relate the conversion kit you need to the corresponding CTS or ID Series fitting. For example, to connect a 3/4" IPS OD pipe with a Philmac 3G fitting you will need either a 1" CTS or 3/4" ID Series fitting as well as a 3/4" IPS OD conversion kit.

PIPE TYPE	BODY SIZE						
	2	3	4	5	6	6cts	7
CTS	3/4"	1"	1 1/4"	1 1/2"	–	2"	–
ID Series	1/2"	3/4"	1"	1 1/4"	1 1/2"	–	2"
IPS OD	1/2"	3/4"	1"	1 1/4"	1 1/2"	–	2"
Q-Line	–	3/4"	1"	–	–	–	–
Copper	1/2"	3/4"	1"	–	–	–	–

How to use the table:

1. Locate the size and type of pipe you need on one end of the fitting.
2. In the same column, locate the corresponding CTS or ID Series size.
3. Locate the size and type of pipe you need on the other end of the fitting.
4. In the same column, locate the corresponding CTS or ID Series size.
5. Order the CTS or ID Series fitting that you have located in steps 2 and 4, and order the corresponding conversion kits located in steps 1 and 3.

Example:

You need to connect 3/4" IPS OD to 3/4" CTS

Steps:

1. Locate 3/4" IPS OD in the chart.
2. Move up in the chart and locate the corresponding CTS fitting: 3/4" IPS OD fits into a 1" CTS fitting.
3. Located 3/4" CTS in the chart.
4. You have now located 1" and 3/4" CTS.

Order:

You need to order a 1" x 3/4" CTS fitting and a 3/4" IPS OD conversion kit to join 3/4" IPS OD to 3/4" CTS pipe.

CONVERSION INSTRUCTIONS

Now that you have purchased and received your Philmac 3G fitting and conversion kits, it is time to convert the fitting.

Converting a Philmac 3G fitting is very simple and can be accomplished in just 5 simple steps:

1. Unscrew and discard the nut, then remove and discard the collet and seal/insert.
2. Open the conversion kit package.
3. Install the new seal first.
4. Then install the new collet.
5. Finally, screw on the new nut until 2 threads are showing. When two threads are showing the collet is fully relaxed and you can now insert the pipe into the fitting.

WARNING: Although they may look similar, the nuts, collets, and seals are NOT interchangeable. Ensure that you discard the existing nut, collet, and seal before you install the new one. Mixing components WILL result in a leaky joint.

UNIVERSAL TRANSITION COUPLINGS – UTC's

Universal Transition Couplings are designed to fit a wide range of outside pipe diameters. Unlike Philmac 3G, which are designed for specific pipe types and sizes, UTC's are designed to fit any pipe within a certain size tolerance.

With their innovative stainless steel gripper design, UTC's can connect to pretty much anything. Virtually all metal pipes and even PVC and polyethylene can be connected using a UTC. Since they are designed to accommodate a range of outside diameters, UTC's are perfect for old, corroded, and out of round pipes that may have an odd outside pipe diameter.

The following sizing chart shows some common pipe types and sizes along with the corresponding UTC. This chart is intended as a quick reference only and is not meant to be definitive. If you are unsure on the size of UTC fitting required, it is recommended to measure the actual outside diameter of the pipe.

SIZING CHART							
	A	B	C	D*	E	F*	G*
	0.59" – 0.83"	0.83" – 1.06"	1.06" – 1.34"	1.34" – 1.54"	1.54" – 1.69"	1.85" – 1.93"	2.32" – 2.40"
Pipe Material (In)	PIPE SIZE (IN INCHES)						
PE CTS OD / PEX	1/2"	3/4"	1	1 1/4"	1 1/2"	–	–
PE IPS OD	–	1/2"	3/4"	1	1 1/4"	1 1/2"	2
PE SDR 7 Series 100	–	1/2"	3/4"	1	–	–	–
PE SDR 9	1/2"	3/4"	1	–	–	–	–
PE SDR 11	–	3/4"	1	–	1 1/4"	1 1/2"	–
PE Series 75	1/2"	3/4"	1	–	1 1/4"	–	–
Copper	1/2"	3/4"	1	1 1/4"	1 1/2"	–	–
PVC	–	1/2", 3/4"	1	–	1 1/4"	–	2
Galvanized Iron	–	1/2", 3/4"	1	–	1 1/4"	–	2
Lead – Strong	–	5/8"	3/4"	1	–	–	–
Lead – Extra Strong	–	1/2"	5/8", 3/4"	1	–	–	–
Lead – Double Extra Strong	–	1/2"	3/4"	–	1	–	–

NOTE: It is recommended that you ALWAYS measure the actual outside diameter of the pipe you are connecting to ensure a proper fit with the Universal Transition Coupling.

UTC's vs. 3G – USAGE COMPARISON CHART

UTC should be used when connecting...	3G should be used when connecting...
Metal Pipe: Galvanized Iron Steel Lead Aluminium, etc. PVC Old or Out-of-Round Pipe Corroded Pipe Odd ODs Unknown Materials	Polyethylene Pipe: CTS ID Series IPS OD Composite Pipe: Q-Line PE to Copper Composite to Copper Copper to Copper

NOTES

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