

Brass Compression Tube Fittings for Instrumentation Lines

Max. operating temp.: 400°F

Fittings are made to tighter tolerances for high-precision applications. Sleeves grip tubing as the nut tightens compressing the sleeve for a tight seal. Fittings connect without tools. Brass, an alloy of copper and zinc, is strong and resists corrosion from water, heat, acids, minerals, and peaty soils.

Single Ferrule Fittings, Series CPI[™]—Include a ferrule (a metal ring or cap) that helps seal metal-to-metal connections and grip tubing. They have fewer leak paths and are resilient to vibrations and pulsations.

Double Ferrule Fittings, Series A-LOK®—Include a front sealing ferrule (metal ring) and a back locking ferrule. A fitting nut is screwed on tubing to tighten and hold fitting and tubing in place. They work with higher pressures than single ferrule fittings and have a stronger grip.

-	Connection Type Compression X	For Tube OD	Pipe	Threading Size	Overall Length	Max. Operating Pressure	Series	ltem No.
Single Fer				ression Fittings	Lengin	TICSSUIC	001103	NU.
90° Elbow								
(mar.)	Compression	1/4 in x 1/4 in	_	7/16-20 x 7/16-20	11/16 in	_	CPI™	1PZZ5
		3% in x 3% in	_	%16-20 x %16-20	13/16 in	_	CPI [™] CPI [™]	1PZZ6
63.5		1/2 in x 1/2 in	_	3/4-20 x 3/4-20 7/8-20 x 7/8-20	17/16 in 11/2 in		CPI CPI™	1PZZ7 1PZZ8
1		³ / ₄ in x ³ / ₄ in	_	1-20 x 1-20	1%16 in		CPI™	4CXH2
		74 III X 74 III		120 × 120	1710 111		011	40/112
90° Elbow	Adapter							
6	MNPT	1⁄4 in	1⁄8 in	7⁄16-20	1 ½16 in	5,000 psi	CPI™	1PZX3
		3/8 in	3/8 in	9⁄16-20	17/32 in	_	CPI™	1PZX6
100		1/2 in	1/4 in	3/4-20	17/16 in		CPI™	4CXF4
The		5% in 3⁄4 in	1/2 in 3/4 in	7/8-20 1-20	1½ in	3,100 psi	CPI™ CPI™	1PZX9 4CXH1
		1 in	1 in	1 5/16-20	1%16 in 115/16 in	2,700 psi	CPI™	40XH1
Ferrule		1 111	1 111	1 710-20	1 . 2 10 111	2,700 µ31	011	40734
. orrait		1⁄4 in	_				CPI™	1RAA5
1		3⁄8 in	_	_		_	CPI™	1RAA7
	Compression	3/4 in	_	_		_	CPI™	4CXG9
		1 in	_	_		_	CPI™	4CXJ3
Single Fer	rule Nut							
12		1⁄4 in	—	7/16	1⁄2 in	—	CPI™	1WVJ3
100	Compression	3⁄8 in	—	%16 -20	9⁄16 in	—	CPI™	1WVJ4
ALCO.	Compression	1/2 in	_	3/4	¹¹ /16 in	_	CPI™	1WVJ5
10		5⁄8 in	_	7/8	¹¹ ⁄16 in	—	CPI™	1WVJ6
Straight A	dapter							
A.		1/4 in	1/4 in	7/16-20	1 ¹³ / ₃₂ in	_	CPI™	1PZY1
Contraction	FNPT	3% in	1/4 in	9/16-20	115/32 in	_	CPI™	1PZY2
		1/2 in 3/4 in	1/2 in	3/4-20 1-20	1 ²⁷ / ₃₂ in 1 ³¹ / ₃₂ in	_	CPI™ CPI™	1PZY3 4CXH4
-	8	3⁄4 in	3/4 in					
	MNPT	1/4 in	1/8 in	7/16-20	1%2 in	5,600 psi	CPI™	1PZV9
		1/4 in	1/4 in	⁷ /16-20 9/16-20	1½ in 1%16 in	4,100 psi	CPI [™] CPI [™]	1PZW1 1PZW4
-		3% in 3% in	1/4 in 3/8 in	916-20 9/16-20	19/16 in	4,100 psi 4,000 psi	CPI™ CPI™	1PZW4
aller .		3% in	1/2 in	9/16-20	1 ¹³ /16 in	4,000 pai	CPI [™]	1PZW6
		1/2 in	1/4 in	3/4-20	1 ²³ /32 in	_	CPI™	1PZW7
a		1⁄2 in	3% in	3⁄4-20	1 ²³ /32 in	_	CPI™	1PZW8
		1⁄2 in	1/2 in	3⁄4-20	1 ¹⁵ /16 in	3,800 psi	CPI™	1PZW9
		5⁄8 in	1⁄2 in	7⁄8-20	1 ¹⁵ /16 in	_	CPI™	1PZX2
<u></u>		3⁄4 in	3⁄4 in	1-20	2 in	_	CPI™	4CXH3
Straight B	ulkhead Union	1⁄4 in x 1⁄4 in	_	⁷ /16-20 x ⁷ /16-20	2%2 in		CPI™	1PZZ1
100	Compression			9/16-20 x 9/16-20	215/32 in		CPI™	1PZZ2
Sr.		5% in x 5% in	_	7/8-20 x 7/8-20	27% in	_	CPI™	1PZZ4
	4							
Straight C	onnector	14 in v 14 in		⅔16-20 x ⅔16-20	15% in	3,500 psi	CPI™	1PZY6
-	Compression	1/4 in x 1/4 in 3/8 in x 3/8 in	_	16-20 x 1/16-20 9/16-20 x 9/16-20	1 ²⁵ / ₃₂ in		CPI™ CPI™	1PZY0 1PZY7
COR		^{9/8} III X ^{9/8} III ¹ /2 in x ¹ /2 in	-	3/4-20 x 3/4-20	21/32 in	2,300 psi 2,200 psi	CPI CPI™	1PZ17 1PZY8
-		5% in x 5% in	_	7/8-20 x 7/8-20	21/16 in	2,200 p3i	CPI™	1PZY9
		3/4 in x 3/4 in	_	1-20 x 1-20	21/8 in	_	CPI™	4CXH5
Straight R	educing Conne	ctor						
-		1⁄4 in x 1⁄8 in	_	7/16-20 x 5/16-20	117/32 in	_	CPI™	4CXE1
(F)	Compression	3% in x 1/4 in	_	9/16-20 x 7/16-20	123/32 in	_	CPI™	4CXE7
- 0		72 III X 74 III	-	3/4-20 x 7/16-20	1 ²⁷ / ₃₂ in	_	CPI™	4CXF6
Tee		1⁄2 in x ¾ in	_	3⁄4-20 x 9⁄16-20	1 ²⁹ /32 in	_	CPI™	4CXF7
105		1⁄4 in x 1⁄4		77	01// in			10770
	Compression	in x ¼ in	_	7⁄16	21% in	_	_	1PZZ9
		¾ in x ¾ in x ¾ in	_	⁹ ⁄16 -20	2 ¹³ / ₃₂ in	_	_	1RAA1
		1/2 in x 1/2		3/4	0274- :			10440
		in x ½ in	_	74	2 ²⁷ / ₃₂ in	_	_	1RAA2
		5% in x 5% in x 5% in	—	7⁄8	31⁄16 in	_	—	1RAA3
		3⁄4 in x 3⁄4	_	_	35⁄32 in	_	_	4CXH6
		in x ¾ in			J 732 III			+07110

	Connection Type Compression X	For Tube OD		Threading Size	Overall Length	Max. Operating Pressure	Series	ltem No.
90° Elbow	ule Brass Inst		Comp	ression Fittings				
		¹ / ₄ in x ¹ / ₄ in ³ / ₈ in x ³ / ₈ in	_	⁷ /16-20 x ⁷ /16-20 ⁹ /16-20 x ⁹ /16-20	1 ¹ /16 in 1 ³ /16 in		_	1PZU 1PZU
	Compression	1/2 in x 1/2 in	_	3⁄4-20 x 3⁄4-20	17/16 in	_	_	1PZU
To		⅔ in x ⅔ in	—	7%-20 x 7%-20	1½ in	—	—	1PZU
		3⁄4 in x 3⁄4 in	_	1-20 x 1-20	1%16 in	_	_	4EUG
90° Elbow A	dapter	1⁄4 in	1⁄8 in	7⁄16-20	11/16 in	5,000 psi	_	1PZP
(B)	MNPT	1/4 in	1/4 in	7/16-20	11/16 in	4,100 psi	_	1PZR
黒		3% in	1/4 in	%16-20	13/16 in	6,600 psi	_	1PZR
1A		3% in 1⁄2 in	3% in 1/2 in	9/16-20 3/4-20	17/32 in 17/16 in	6,600 psi 6,700 psi		1PZR 1PZR
0		5% in	1/2 in	7/8-20	1½ in	6,100 psi	_	1PZR
Adapter Tee		3⁄4 in	3⁄4 in	1-20	1%16 in	5,800 psi	-	4EUG
Audpter Tee		1⁄4 in x 1⁄4 in	1/4 in	⁷ ∕16-20 x ⁷ ∕16-20	21/8 in	2,000 psi	_	4CXX
the of	MNPT	3% in x 3% in	⅔ in	⁹ /16-20 x ⁹ /16-20	25% in	_	—	4CXY
		1⁄2 in x 1⁄2 in	1⁄2 in	3⁄4-20 x 3⁄4-20	21/8 in	_	_	4EUD
Back Ferrul	e	1/4 in					A-LOK®	1 D7V
6		3% in	_				A-LOK®	
	Compression	1⁄2 in	—	_		—	A-LOK®	1PZV
	oomproooion	5% in 3⁄4 in	_	—			A-LOK® A-LOK®	
(C)		1 in	_			_	A-LOK®	
Cap				7/ 00		0.500	A 1 01/8	101/14
The		1/4 in 3/8 in	_	7/16-20 9/16-20		3,500 psi 2,300 psi		
10	Compression	1/2 in	-	3/4-20		2,300 psi 2,200 psi		
Double Ferri	ulo Nut							
Double Ferri	ule Nul	1⁄4 in	_	7⁄16-20	1/2 in	_	A-LOK®	1WVF
10 mail	Comprossion	3⁄8 in	-	⁹ /16-20	9∕16 in	—	A-LOK®	1WVF
	Compression	1/2 in 5% in	-	3/4 7/8	¹¹ / ₁₆ in		A-LOK® A-LOK®	
Front Ferrul	•	98 III		-78	· 916 III		A-LUK ^o	1 44 43
i i ulit i ci i ul	6	1⁄4 in	_	_		_	A-LOK®	1PZV
		3% in	—	_		—	A-LOK®	
C	Compression	1/2 in 5% in	_				A-LOK® A-LOK®	
		3/4 in	_			_	A-LOK®	
		1 in	—	_		—	A-LOK®	
Plug		1/4 in	_	7⁄16-20		3,500 psi		40.00
F		3% in	_	9/16-20		6,600 psi		
50	Compression	1⁄2 in	—	3⁄4-20		2,200 psi	A-LOK®	4EUD
Straight Ada	ntor							
otraight Auc	iptoi	1⁄4 in	1⁄4 in	7⁄16-20	1 ¹⁵ / ₃₂ in	_	_	4CXX
r		3% in	1/4 in	⁹ ⁄16-20	1 ¹⁵ / ₃₂ in	6,600 psi	—	1PZR
1800	FNPT	1/2 in 5% in	1/2 in 1/2 in	3/4-20 7/8-20	1 ²⁷ / ₃₂ in 1 ²⁷ / ₃₂ in	6,700 psi 6,100 psi		1PZR 1PZT
110		3/4 in	3/4 in	1-20	1 ³¹ /32 in	5,800 psi	_	4EUF
		1⁄4 in	1⁄8 in	7/16-20	1%32 in	5,600 psi	—	1PZN
		1/4 in 1/4 in	1/4 in 3/8 in	7/16-20 7/16-20	1½ in 1½ in	4,100 psi 4,000 psi		1PZN
	MNPT	3% in	1/4 in	%16-20	1%16 in	4,000 psi 4,100 psi		1PZN 1PZP
STA		3⁄8 in	⅔ in	9/16-20	1%16 in	4,000 psi	—	1PZF
0		3% in 1½ in	1/2 in	9/16-20 3/4-20	1 ¹³ / ₁₆ in 1 ²³ / ₃₂ in	3,900 psi		1PZF
al.		1/2 in	1/4 in 1/2 in	3⁄4-20	1 ¹⁵ /16 in	4,100 psi 3,900 psi	_	1PZP 1PZP
		5∕≋ in	⅔ in	7⁄8-20	1¾ in		_	1PZF
		5% in 3⁄4 in	1/2 in 3/4 in	7%-20 1-20	1 ¹⁵ /16 in 2 in		_	1PZF 4EUC
Straight Bul	khead Union	74 111	74 111		<u>د</u> ۱۱۱			400
Tier		1/4 in x 1/4 in	—	7/16-20 x 7/16-20	2%2 in	10,300 psi	—	1PZT
SICO.	Compression	3% in x 3% in 5% in x 5% in	_	%-20 x %-20 %-20 x %-20	2 ¹⁵ / ₃₂ in 2 ⁷ / ₈ in	6,600 psi 6,100 psi	_	1PZT 1PZU
		70 HI A 78 HI		/0 LU A 78=2U	∠ /0 III	0,100 µSI		11 20
Straight Cor	nector	1⁄4 in x 1⁄4 in	_	7/16-20 x 7/16-20	1% in		_	1PZT
F		³ % in x ³ % in	_	%16-20 x %16-20	1 ²⁵ /32 in	2,300 psi	_	1PZT
Ser	Compression	1⁄2 in x 1⁄2 in	—	3⁄4-20 x 3⁄4-20	21/32 in	2,200 psi	—	1PZT
de.		5% in x 5% in 34 in x 34 in	_	7%-20 x 7%-20 1-20 x 1-20	21/16 in 21/8 in		_	1PZT 4EUF
Straight Red	lucing Conne			1 20 8 1-20	£ /0 III			4201
Co.		3⁄8 in x 1⁄4 in	-	9/16-20 x 7/16-20	1 ²³ / ₃₂ in	_	-	4CXY
10-	Compression	½ in x ¼ in	-	3⁄4-20 x 7∕16-20	127/32 in		_	4CXZ
10 10		1⁄2 in x ¾ in	—	3⁄4-20 x 9⁄16-20	1²9⁄32 in	_	—	4CXZ
Tee								
Tee		¹ / ₄ in x ¹ / ₄	_	7/16	21/8 in	10,900 psi	_	1PZU
Tee	 	in x ¼ in	_					
Tee		in x ¼ in ¾ in x ¾ in x ¾ in	-	⁷ ⁄16 9⁄16 -20	21/8 in 213/32 in	10,900 psi 6,600 psi	_	
	Compression	in x ¼ in % in x % in x % in ½ in x ½	_					1PZU
	Compression	in x ¼ in % in x % in x % in ½ in x ½ in x ½ in % in x %		%16 -20 3⁄4	2 ¹³ / ₃₂ in 2 ²⁷ / ₃₂ in	6,600 psi 6,700 psi		1PZU 1PZU
	Compression	in x ¼ in % in x % in x % in ½ in x ½ in x ½ in % in x % in x % in		9⁄16 -20	2 ¹³ / ₃₂ in 2 ²⁷ / ₃₂ in 3 ¹ / ₁₆ in	6,600 psi 6,700 psi 6,100 psi		1PZU 1PZU 1PZU 1PZU
0	Compression	in x ¼ in % in x % in x % in ½ in x ½ in x ½ in % in x %		%16 -20 3⁄4	2 ¹³ / ₃₂ in 2 ²⁷ / ₃₂ in	6,600 psi 6,700 psi		1PZ 1PZ

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