



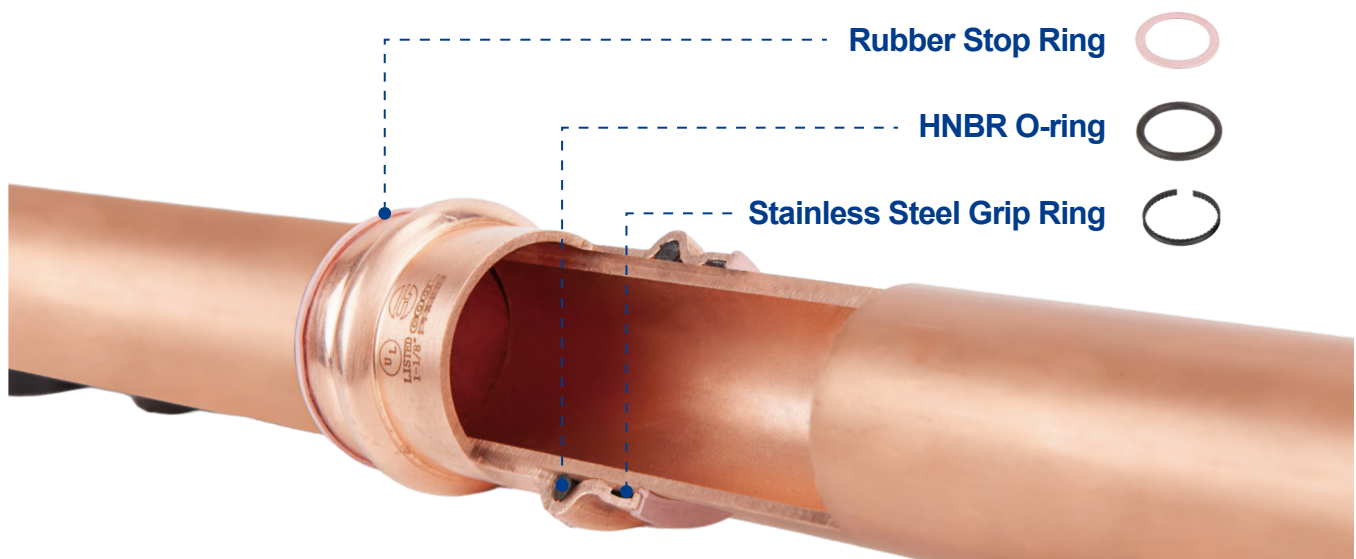
Refrigeration Press Fittings

► Introduction

COOL PRESS system is a copper press connection system designed for the air conditioning and refrigeration markets. It allows contractors to make secure leak-free connections in seconds. COOL PRESS utilizes a rubber stop ring, coated stainless steel grip ring and black HNBR sealing element to provide permanent leak-proof connections from 1/4" to 1 1/8".

► Features and Benefits

- **Flame-free:** Flame-free installation avoids the need for a fire permit and the risk of fire on site.
- **No Nitrogen Purge:** COOL PRESS is a mechanical joint, thus eliminating the need for nitrogen purge during the jointing process.
- **Lower Installed Cost:** A professional fitting which is quick and simple to install, saving time and money.
- **Higher Productivity, Improved Flexibility:** Work may be completed during working hours / public access, by a single employee.
- **Site Access:** Easy access to work sites, no gas bottles required.
- **Quality Designed In:** Reliable, repeatable, permanent, tamper-proof connections every time.
- **3-Point Press:** Three press points, one each side of the bead, and one press compressing the O-ring. This provides a secure joint.
- **High Quality O-ring:** High quality HNBR O-ring forms a secure leak-free joint when pressed.
- **Protected O-ring:** Lead-in edge design aids tube insertion and helps protect the O-ring from damage or displacement.
- **Electrical Continuity:** Maintains ground continuity without the need for additional ground continuity straps.
- **Field Proven:** Press fit technology, field proven over two decades and millions of installed fittings worldwide.
- **Compact Tooling:** Light compact tooling provides easy access to tightly spaced tube runs.
- **WARRANTY:** 15-year product warranty.



► Listings and Certifications

- UL 207 SA46123
 - UL Listed: Approved use for field and factory installations with A1 refrigerants
 - UL Recognized: Approved use for factory installations with A2, A2L, and A3 refrigerants
- UL 109 - 8 Vibration test, compliant
- UL 1963 - 79 Tests of gaskets and seals used in refrigerant systems, compliant
- ISO 14903 - 7.4 Tightness test, compliant
- ISO 14903 - 7.6 Pressure temperature vibration tests (PTV), compliant
- ISO 14903 - 7.8 Freezing test, compliant
- ISO 5149-2:2014, Refrigerating systems and heat pumps
 - Safety and environmental requirements
 - Part 2: Design, construction, testing, marking and documentation compliant
- ISO 5149-2, 5.3.2.2.3 Strength pressure test, compliant
- ASME B31.5 - 2016 Refrigeration Piping and Heat Transfer Components, compliant

► Technical Data

Maximum Rated Operating and Abnormal Pressure
700 psi / 48 bar / 4800 kPa

Continuous Operating Temperature
-40°F to 284°F/-40°C to 140°C

Vacuum Pressure Capability
200 Microns

Leak Tightness:
Helium $\leq 7.5 \times 10^{-7}$ Pa.m³/s at +20°C, 10 bar

Burst Pressure
>3X Maximum operating and abnormal pressure
>2,100 psig / >14400 kPa / >144 bar

Size Availability (Inches):
1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8



Applications: COOLPRESS fittings are designed for the following applications

- Refrigeration
- Air Conditioning
- Heat Pump (Refrigeration side)
- VRF and VRV

Fitting Materials	Compatibility
Fitting Body Refrigerant Grade Copper (UNS C12200 min 99.9% pure)	Approved Lubricants POE, PAO, PVE, AB and MO
O-Ring HNBR	Approved Connections Copper to Copper
Fitting Warranty	Approved Tube Copper tube conforming to ASTM B280, ASTM B88, or ASTM B743
15-year warranty	Approved Copper Tubing Hard Copper (Drawn)- Type ACR, L, K Soft Copper (Annealed)- Type ACR, L, K

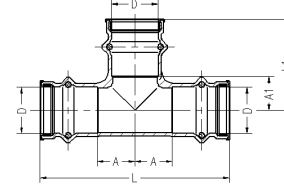
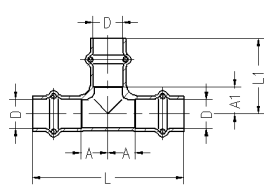
Approved Refrigerants

R32**	R125	R134a	R290**	R404A
R407A	R407C	R407F	R407H	R410A
R454A*	R454B**	R438A	R448A	R449A
R454C*	R452A	R452B**	R507A	R600A**
R452C	R1234yf**	R1234ze**		

COMPATIBLE	PRESS TooLS	32 kN	24 kN	19 kN
ROTHENBERGER	ROMAX 3000	✓	—	—
	ROMAX 3000 AC	✓	—	—
	ROMAX4000	✓	—	—
	ROMAXAC ECO	✓	—	—
	Twin Turbo US (TT US)	—	✓	—
	ROMAX@Compact TT	—	—	✓
	ROMAX@Compact	—	—	✓
DEWALT	DCE200	✓	—	—
KLAUKE	UAP2/UNP2	✓	—	—
	UAP3L/UAP4L	✓	—	—
	UP2EL14	✓	—	—
	MAP2L19	—	—	✓
	MAP219	—	—	✓
MILWAUKEE	M12 Force Logic	—	✓	—
	M18 Force Logic	✓	—	—
HILTI	NPR 019	—	—	✓
NIBCO	PC-100	✓	—	—
	PC-280	✓	—	—
REMS	Power-Press	✓	—	—
	Akku-Press	✓	—	—
RIDGID	320-E	✓	—	—
	CT400	✓	—	—
	RP 241	—	✓	—
	RP 240	—	✓	—
	RP 210-B	—	✓	—
	RP 200-B	—	✓	—
	RP 330-B	✓	—	—
	BP 330-C	✓	—	—
	RP 340	✓	—	—
	RP 350	✓	—	—
VIRAX	Viper P25+	✓	—	—
	Viper P25+	✓	—	—

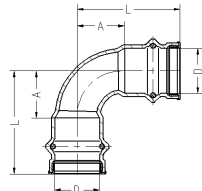
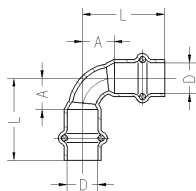


Equal Tee PxPxP



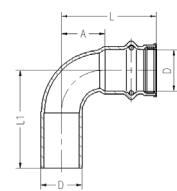
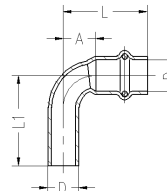
PT Part No	Size D	L	L	A	A	L1	L1	A1	A1
		Inch	mm	Inch	mm	Inch	mm	Inch	mm
100517	1/4"	1.77	45.00	0.26	6.50	0.85	21.50	0.22	5.50
100518	3/8"	1.97	50.00	0.35	9.00	0.98	25.00	0.35	9.00
100519	1/2"	2.36	60.00	0.47	12.00	1.10	28.00	0.39	10.00
100520	5/8"	2.83	72.00	0.59	15.00	1.32	33.50	0.49	12.50
100521	3/4"	3.07	78.00	0.61	15.50	1.48	37.50	0.55	14.00
100522	7/8"	3.35	85.00	0.71	18.00	1.56	39.50	0.59	15.00
100523	1 1/8"	3.88	98.50	0.96	24.50	1.75	44.50	0.79	20.00

90° Elbow PxP



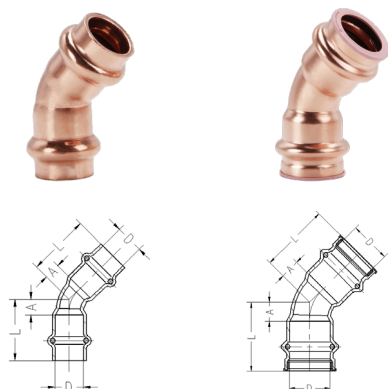
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		Inch	mm	Inch	mm
100531	1/4"	0.94	24.00	0.31	8.00
100532	3/8"	1.02	26.00	0.39	10.00
100533	1/2"	1.20	30.50	0.49	12.50
100534	5/8"	1.40	35.50	0.57	14.50
100535	3/4"	1.28	32.50	0.79	20.00
100536	7/8"	1.75	44.50	0.79	20.00
100537	1 1/8"	2.09	53.00	1.12	28.50

90° Street Elbow FTGxP



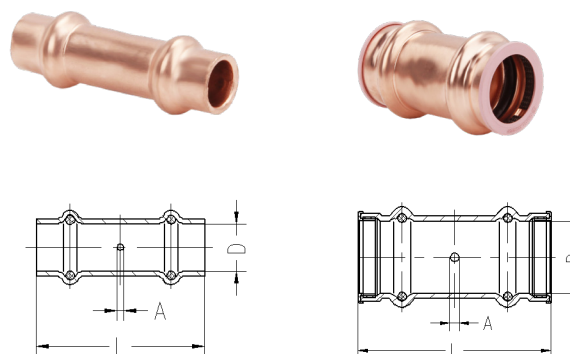
PT Part No	Size D	L	L	L1	L1	A	A
		Inch	mm	Inch	mm	Inch	mm
100538	1/4"	0.94	24.00	1.00	25.50	0.31	8.00
100539	3/8"	1.02	26.00	1.10	28.00	0.39	10.00
100540	1/2"	1.16	29.50	1.28	32.50	0.45	11.50
100541	5/8"	1.40	35.50	1.56	39.50	0.57	14.50
100542	3/4"	1.28	32.50	1.77	45.00	0.79	20.00
100543	7/8"	1.75	44.50	2.01	51.00	0.79	20.00
100544	1 1/8"	2.09	53.00	2.32	59.00	1.12	28.50

45° Elbow PxP



PT Part No	Size D1	L	L	A	A
		Inch	mm	Inch	mm
100524	1/4"	0.81	20.50	0.18	4.50
100525	3/8"	0.85	21.50	0.22	5.50
100526	1/2"	0.87	22.00	0.16	4.00
100527	5/8"	1.12	28.50	0.30	7.50
100528	3/4"	1.28	32.50	0.35	9.00
100529	7/8"	1.42	36.00	0.45	11.50
100530	1 1/8"	1.44	36.50	0.49	12.50

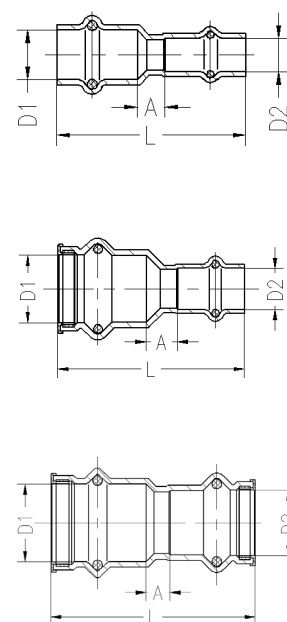
Coupling with Stop PxP



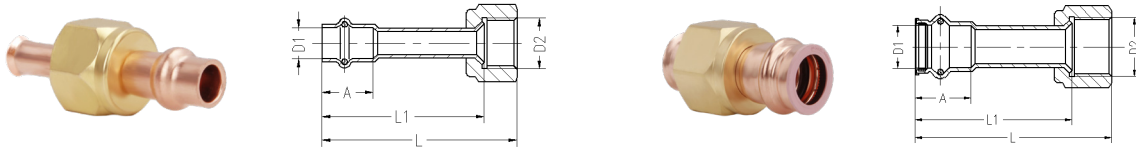
PT Part No	Size D1	L	L	A	A
		Inch	mm	Inch	mm
100545	1/4"	1.38	35.00	0.12	3.00
100546	3/8"	1.38	35.00	0.12	3.00
100547	1/2"	1.57	40.00	0.16	4.00
100548	5/8"	1.65	42.00	0.16	4.00
100549	3/4"	2.01	51.00	0.20	5.00
100550	7/8"	2.09	53.00	0.20	5.00
100551	1 1/8"	2.11	53.50	0.20	5.00

Reducing Coupling PxP

PT Part No	Size D1	Size D2	L	L	A	A
			Inch	mm	Inch	mm
100552	3/8"	1/4"	1.65	42.00	0.31	8.00
100553	1/2"	1/4"	1.57	40.00	0.24	6.00
100554	1/2"	3/8"	1.48	37.50	0.22	5.50
100558	3/4"	1/2"	1.95	49.50	0.31	8.00
100555	5/8"	1/4"	1.91	48.50	0.45	11.50
100556	5/8"	3/8"	1.75	44.50	0.30	7.50
100557	5/8"	1/2"	1.77	45.00	0.24	6.00
100560	7/8"	1/2"	2.05	52.00	0.37	9.50
100559	3/4"	5/8"	1.99	50.50	0.24	6.00
100562	7/8"	3/4"	2.15	54.50	0.26	6.50
100561	7/8"	5/8"	2.15	54.50	0.35	9.00
100564	1 1/8"	3/4"	2.28	58.00	0.39	10.00
100563	1 1/8"	5/8"	2.30	58.50	0.51	13.00
100565	1 1/8"	7/8"	2.28	58.00	0.35	9.00

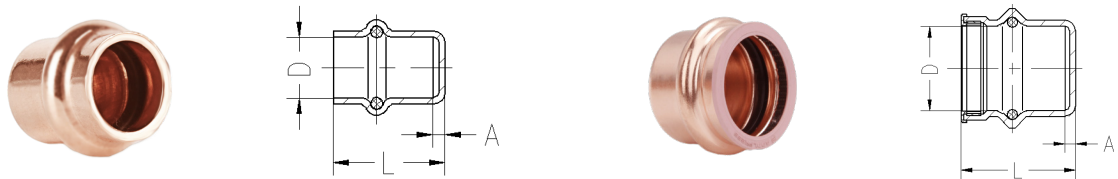


Flare



PT Part No	Size D1	Size D2	L	L	L1	L1	A	A
			Inch	mm	Inch	mm	Inch	mm
100573	1/4"	UNF 7/16-20	2.13	54.00	1.79	45.50	0.63	16.00
100574	3/8"	UNF 5/8-15	2.40	61.00	1.99	50.50	0.63	16.00
100575	1/2"	UNF 3/4-16	2.50	63.50	2.03	51.50	0.71	18.00
100576	5/8"	UNF 7/8-14	2.91	74.00	2.32	59.00	0.83	21.00
100577	3/4"	UNF 1 1/16-14	3.21	81.50	2.54	64.50	0.93	23.50

Cap PxCap



PT Part No	Size D1	L	L	A	A
		Inch	mm	Inch	mm
100566	1/4"	0.71	18.00	0.08	2.00
100567	3/8"	0.71	18.00	0.08	2.00
100568	1/2"	0.81	20.50	0.10	2.50
100569	5/8"	0.96	24.50	0.10	2.50
100570	3/4"	1.02	26.00	0.10	2.50
100571	7/8"	1.06	27.00	0.10	2.50
100572	1 1/8"	1.08	27.50	0.12	3.00



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