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MATERIAL SPECIFICATION SHEET

ACR BRASS PUSH-FIT FITTINGS

Designed for high-pressure HVAC/R piping applications, these fittings provide fast, clean, and reliable connections without the need for brazing or specialized press tools and jaws.

Product Information

Sizes: 1/4" to 1-1/8“

Approvals and Certifications:

- UL 207
- CRN : Approved

Compatibility:

- Approved Lubricants: POE, PVE
- Approved Tubing Materials: Copper to Copper Connections
- Approved Tubing Tolerance: ASTM B280
- Approved Copper Tubing Types:
  - Hard Copper (Drawn) 1/4" – 1-1/8" Type ACR, M, L, K
  - Soft Copper (Annealed) 1/4" – 1- 1/8" Type ACR, L, K
- Approved Refrigerants: R32, R134A, R290, R404A, R407A, R407C, R407F, R410A, R448A, R449A, R454B, R507, R600A
  *** HNBR seals NOT approved for use with HCFCs, i.e. R-22 (Chlorinated Refrigerants)***

Product Parameters:

- Continuous Operating Temperature: 121°C (250°F)
- O-Ring Temperature Rating: -40°C to + 149°C (-40°F to +300°F)
- Max Operating Pressure:

Size (in.)	Max Operating Pressure
1/4	6205 kPa (900 psi)
3/8	6205 kPa (900 psi)
1/2	6205 kPa (900 psi)
5/8	6205 kPa (900 psi)
3/4	6205 kPa (900 psi)
7/8	6039 kPa (876 psi)
1-1/8	5026 kPa (729 psi)

- Vacuum Pressure Capability: 200 Microns
- External Leak Rate: <0.1 Ounces of Helium per Year at Operating Pressure Range

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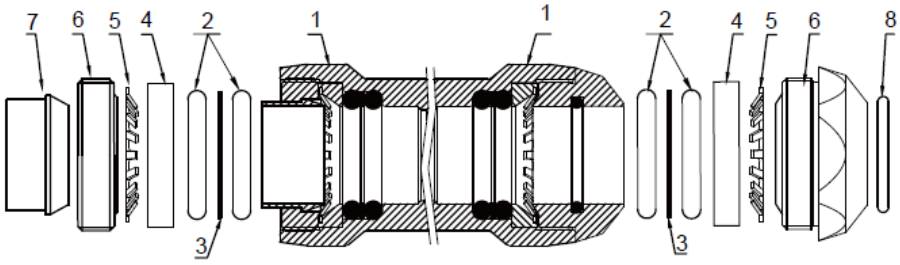
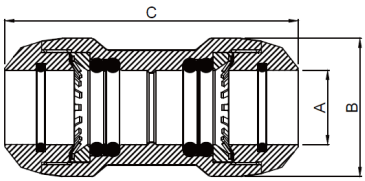
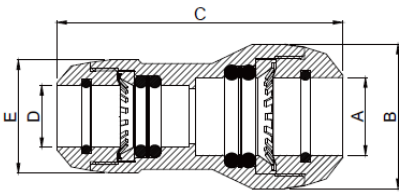


NO.	Part	Material	Quantity
1	Body	Brass C37700 ASTM B283	1
2	O-ring	HNBR & CR ASTM D2000	4
3	Washer	Copper ASTM B272/PSU	2
4	Protector Ring	Brass C46500	2
5	Grab Ring	SUS ASTM A240	2
6	Threaded Retainer	Brass C37700 ASTM B283	2
7	Release Collar	Brass C46500	2/0 (removable/non-removable)
8	O-ring	EPDM ASTM D2000	0/2 (removable/non-removable)

NON-REMOVABLE ACR PUSH-FIT COUPLING

CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)
111329000	1/4	6.5	16.5	42
111329002	3/8	9.7	20.5	49.5
111329004	1/2	12.9	23.5	57
111329005	5/8	16.1	30	63.5
111329006	3/4	19.2	32	64
111329007	7/8	22.5	37.5	74.5
111329010	1-1/8	28.8	47.9	81





CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
111329057	3/8 x 1/4	9.7	20.5	48.5	6.5	16.5
111329060	1/2 x 3/8	12.9	23.5	52.9	9.7	20.5
111329085	5/8 x 1/2	16.1	30	59.8	12.9	23.5
111329081	3/4 x 5/8	19.3	32	65.4	16.1	30

ACR PUSH-FIT COUPLING

Price List Reference: Cat. 113: ACR Brass Push-Fit Fittings
Revision 1.0 October 2026

CB SUPPLIES

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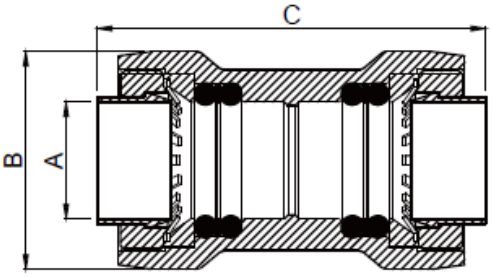
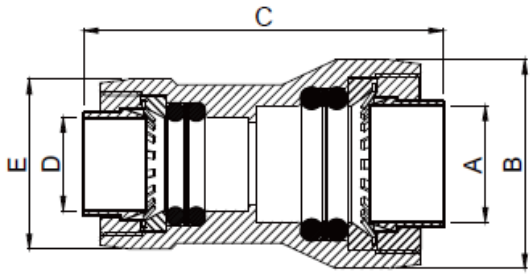
REMOVABLE ACR PUSH-FIT COUPLING



CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)
111429000	1/4	6.5	16.5	37
111429002	3/8	9.7	20.5	40
111429004	1/2	12.9	23.5	47
111429005	5/8	16.1	30	52.5
111429006	3/4	19.2	32	52.5
111429007	7/8	22.5	37.5	60
111429010	1-1/8	28.8	47.9	64.5



CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
111429057	3/8 x 1/4	9.7	20.5	35.5	6.5	16.5
111429060	1/2 x 3/8	12.9	23.5	39.4	9.7	20.5
111429085	5/8 x 1/2	16.1	30	44.8	12.9	23.5
111429081	3/4 x 5/8	19.3	32	54.8	16.1	30

Price List Reference: Cat. 113: ACR Brass Push-Fit Fittings
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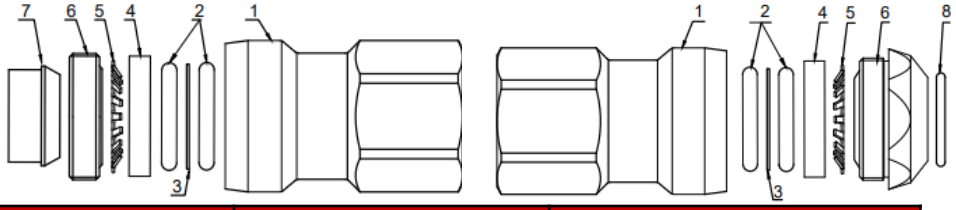
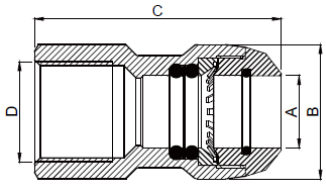
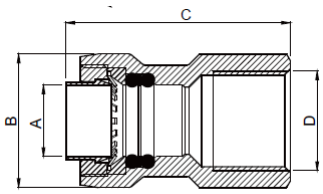


NO.	Part	Material	Quantity
1	Body	Brass C37700 ASTM B283	1
2	O-ring	HNBR & CR ASTM D2000	2
3	Washer	Copper ASTM B272/PSU	1
4	Protector Ring	Brass C46500	1
5	Grab Ring	SUS ASTM A240	1
6	Threaded Retainer	Brass C37700 ASTM B283	1
7	Release Collar	Brass C46500	1/0 (removable/non-removable)
8	O-ring	EPDM ASTM D2000	0/1 (removable/non-removable)

FEMALE FLARE NON-REMOVABLE ACR PUSH-FIT ADAPTER



CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)	D (mm)
111335010	1/4 OD x 1/4	6.5	16.5	38	20
111335025	3/8 OD x 3/8	9.7	20.5	41	18
111335046	1/2 OD x 1/2	12.9	23.5	47	16
111335057	5/8 OD x 5/8	16.1	30	51	14

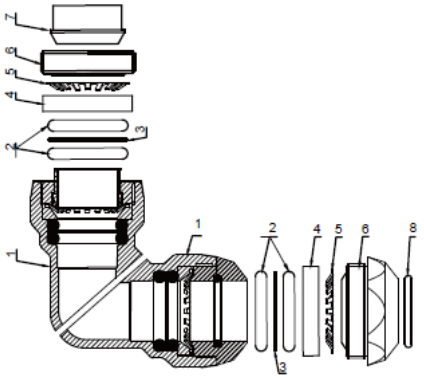


FEMALE FLARE REMOVABLE ACR PUSH-FIT ADAPTER

CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)	D (mm)
111435010	1/4 OD x 1/4	6.5	16.5	33	20
111435025	3/8 OD x 3/8	9.7	20.5	36	18
111435046	1/2 OD x 1/2	12.9	23.5	41	16
111435057	5/8 OD x 5/8	16.1	30	46	14

CB SUPPLIES

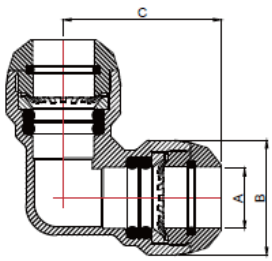
MATERIAL SPECIFICATION SHEET



NO.	Part	Material	Quantity
1	Body	Brass C37700 ASTM B283	1
2	O-ring	HNBR&CR ASTM D2000	4
3	Washer	Copper ASTM B272/PSU	2
4	Protector Ring	Brass C46500	2
5	Grab Ring	SUS ASTM A240	2
6	Threaded Retainer	Brass C37700 ASTM B283	2
7	Release Collar	Brass C46500	2/0 (removable/non-removable)
8	O-ring	EPDM ASTM D2000	0/2 (removable/non-removable)

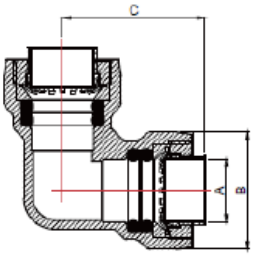
NON-REMOVABLE ACR PUSH-FIT 90° ELBOW

CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)
111306000	1/4	6.5	16.5	25.5
111306002	3/8	9.7	20.5	28
111306004	1/2	12.9	23.5	45
111306005	5/8	16.1	30	42
111306006	3/4	19.2	32	43.5
111306007	7/8	22.5	37.5	50
111306010	1-1/8	28.8	47.9	58



REMOVABLE ACR PUSH-FIT 90° ELBOW

CB Supplies Part #	Size (in.)	A (mm)	B (mm)	C (mm)
111406000	1/4	6.5	16.5	21.5
111406002	3/8	9.7	20.5	25
111406004	1/2	12.9	23.5	40
111406005	5/8	16.1	30	36
111406006	3/4	19.2	32	37.5
111406007	7/8	22.5	37.5	43
111406010	1-1/8	28.8	47.9	50



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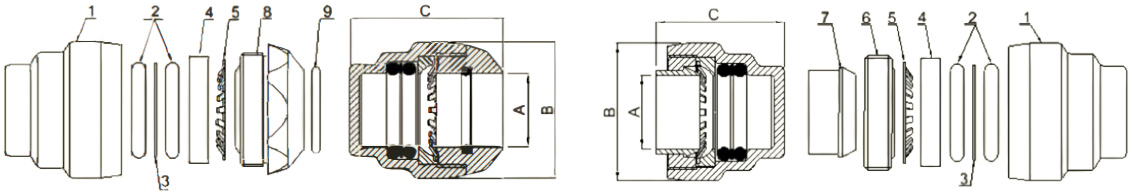

NO.	Part	Material	Quantity
1	Body	Brass	1
2	O-ring	HNBR & CR ASTM D2000	2
3	Washer	PSU	1
4	Protector Ring	Brass	1
5	Grab Ring	Stainless Steel	1
6	Threaded Retainer	Brass	1
7	Release Collar	Brass	1
8	Locking Cap	Brass	1
9	O-ring	EPDM	1/0 (removable/non-removable)

NON-REMOVABLE ACR PUSH-FIT END CAP

CB Supplies Part #	Size (in.)	A ± 0.1 (mm)	B ± 0.1 (mm)	C ± 0.3 (mm)
111347000	1/4	6.5	16.6	25.3
111347002	3/8	9.7	20.5	26.3
111347004	1/2	12.9	23.5	30.2
111347005	5/8	16.1	30	33.7
111347006	3/4	19.3	32	34.5
111347007	7/8	22.4	37.6	39.6
111347010	1-1/8	28.9	48	43.2

REMOVABLE ACR PUSH-FIT END CAP

CB Supplies Part #	Size (in.)	A ± 0.1 (mm)	B ± 0.1 (mm)	C ± 0.3 (mm)
111447000	1/4	6.5	16.6	20.7
111447002	3/8	9.7	20.5	21.8
111447004	1/2	12.9	23.5	25.5
111447005	5/8	16.1	30	28.4
111447006	3/4	19.3	32	29.2
111447007	7/8	22.4	37.6	33.3
111447010	1-1/8	28.9	48	36.4

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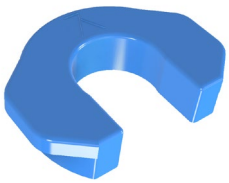
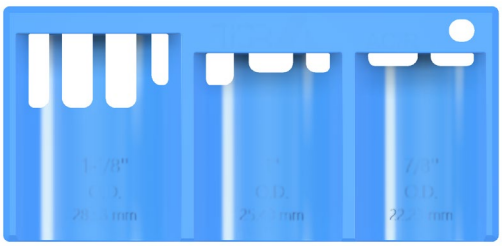
REMOVAL TOOL



CB Supplies Part #	Size (in.)
111398000	1/4
111398002	3/8
111398004	1/2
111398005	5/8
111398006	3/4
111398007	7/8
111398008	1
111398010	1-1/8

DEPTH GAUGE



CB Supplies Part #	Size (in.)
111399000	1/4 - 1-1/8