

Hydraulic Components-Hoses

General Product Information

Barcol-Air brand hoses and nipples are designed to provide the installing contractor with a completely tested and integrated installation system that provides the following key benefits:

- Flexible hoses provide access to ceiling voids at any location without taking the active ceiling out of service
- Eliminates solder joints during installation that may corrode later due to oxygen in the system
- Simplifies installation and reduces installation costs by the use of exclusive, precision machined push-on type fittings
- Double Viton seal eliminates leaks
- Easy - On, Easy - Off installation permits capacity to be easily added or deleted as space requirements change
- Barcol-Air exclusive "Blue Ring" identifier allows easy inspection of hoses during commissioning
- Hoses are secured with a C-Clip.
- Standard working test pressure 10 bar.

Product Information Stainless Steel Hoses

Hoses made of flexible stainless steel of various lengths mated to Barcol-Air's exclusive push-on type end fittings. The hoses provide an oxygen tight loop that does not require automatic venting. standard diameter is 12 mm.



Figure 1:
Metal Flexible Hose With Push-On Couplings and C-Clip

Product Information Brom/Butil Hoses

The hose has a Brom/Butil core, a braided stainless steel jacket mated to Barcol-Air's exclusive push-on type end fittings.



Figure 2:
Brom/Butil Flexible Hose With Push-On Couplings and C-Clip

Product Information – Push-On Coupling

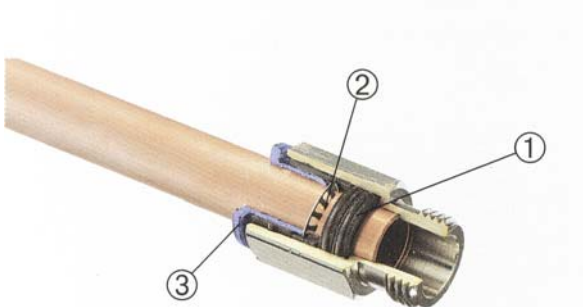


Figure 3: Detail Of Push-On Coupling

- 1 Double Profile Ring
- 2 Segment Ring Made Of Stainless Steel
- 3 De-Install Release Ring

Technical application terms

Operating pressure: max 16 bar (232 PSI)

Test pressure: max 24 bar (348 PSI)

Operating temperature: +10°C to +93°C max.
(+50°F) to (200°F) max.

Maximum Permitted temperature: 93°C (200°F)

Storage temperature: +20°C to +70°C max.
(+70°F) to (160°F) max.

Liquid coolant: Water (according to DIN 1988 Part 7 and 8) permitted glycol quota of max. 40%

Product Information - Header Nipples

Barcol-Air brand header nipples complete the integrated approach to chilled ceiling design. Nipples can be fabricated into piping circuit headers or manifolds as desired by the designer. The use of one piece, precision-machined brass ensures that the system will be leak tight and installed with a minimum of difficulty. It is designed to receive the 12 mm push on coupling of the flexible hose at one end & terminates a 1/2" male thread at the other end.



Figure 4: Detail Of Header Nipple

Alternatively a Ball Valve with Nipple can be used. This gives the freedom to shutoff every loop separately.

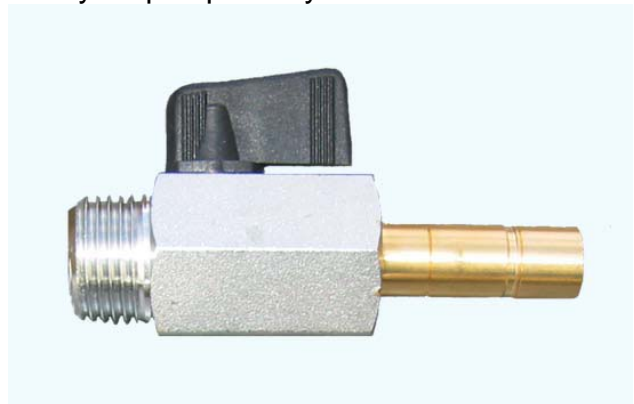
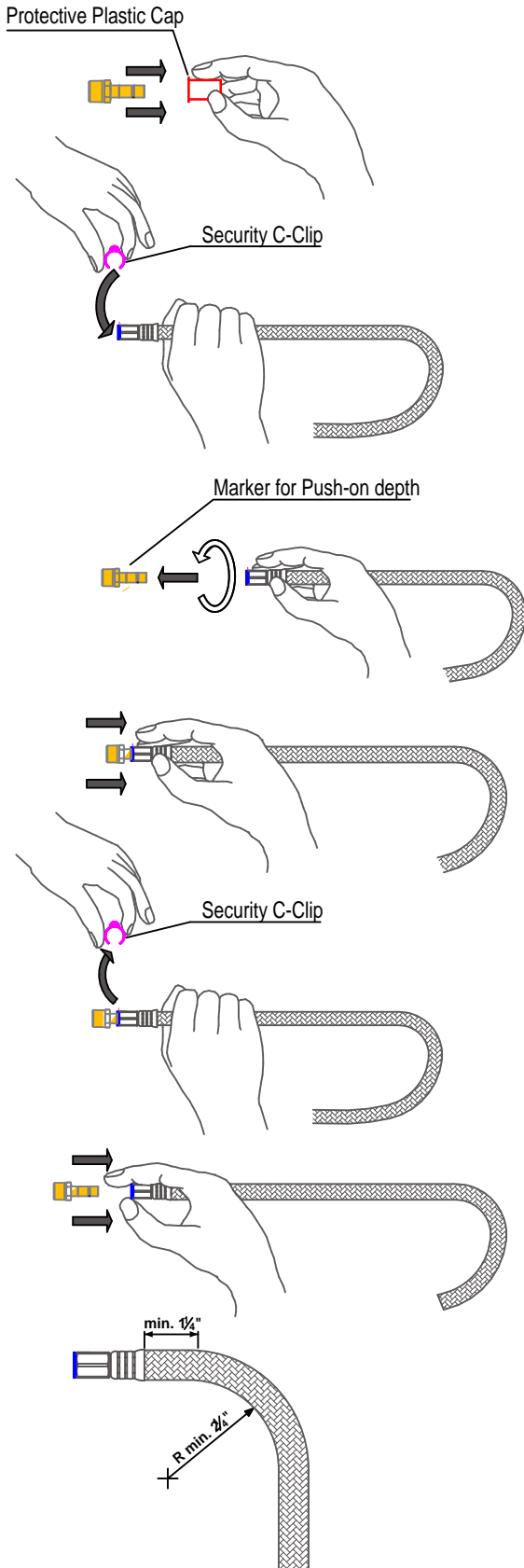


Figure 5: Detail Of Ball Valve-Header Nipple

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Preparation of the Nipple Connection

Remove plastic protective cap by hand from the pipe or the nipple

Prepare the Hose Coupling

Attach security C-Clip on both sides to the couplings
(Insert C-Clip between Release Ring and Couplings Body)

Installation of the hose coupling

Push hose coupling with inserted C-Clip under slight rotation to the marker for the Push-on depth, you should hear a click.

Examination

To ensure that the coupling is correctly installed, yank back on the coupling.

Preparation to remove the Hose

Remove security C-Clip from blue Release Ring

Remove the Hose

Pull the blue Release Ring towards the coupling
Slide the coupling from the Nipple

Hose Radius

Do not exceed minimum radius!