



PRESS CONNECTIONS PRESSCON™

CALEFFI

Hydronic Solutions



Heating & Cooling

Components for today's modern hydronic systems



FUNCTIONS AND FEATURES

- Presscon™ copper connections makes installation of Caleffi components fast, easy and efficient using standard press compression tools.
- Special slots in EPDM O-ring allows fluid to leak during system testing if unpressed and the perfect leak proof seal when completely pressed.
- Press sizes from ½" to 2" copper are available on several air separators, dirt separators, hydronic separators, magnetic separators, thermostatic mixing valves, balancing valves, press reducing valves, zone valves and more.
- Temperature range of 0°F—250°F with pressure rating to 200 psi and up to 50% glycol mixture. Fittings meet low lead law requirements for use in accordance with U.S. and Canadian plumbing and mechanical codes.

PRESSCON™ PRODUCT SELECTOR

MOTORIZED ZONE VALVES



Zone 2-way

Two-way zone valve. Spring return. Normally closed actuator. Auxiliary micro-switch. Max. body pressure: 300 psi. Overall length: 5-5/8". Temperature range: 32–240°F. Power supply: 24 V AC. Power consumption: 5 W, 7 VA.

Code	Description
Z44P	1/2" press union*
Z54P	1/2" press union**
Z45P	3/4" press union*
Z55P	3/4" press union**
Z45PL	3/4" press union* / 1 extra long outlet
Z55PL	3/4" press union** / 1 extra long outlet
Z46P	1" press union*
Z56P	1" press union**

* 18" wire lead connection.
** screw terminal connection

BALANCING VALVES WITH FLOW METER



QuickSetter+™

Balancing valve with flow meter. Direct reading of flow rate. No sight gauge clouding or scaling. DZR low-lead brass. Rotatable stainless steel flow rate adjuster and inlet flow check valve. Graduated scale flow meter with magnetic movement flow rate indicator. Certified to Low Lead Laws.

Code	Description
132536AFC	3/4" press union
132556AFC	3/4" press union

With temperature gauge:

Code	Description
132537AFC	3/4" press union
132557AFC	3/4" press union

DYNAMIC BALANCING VALVE



FlowCal™

Compact automatic flow balancing valve. DZR low-lead brass body. Patented anti-scale, low noise polymer FlowCal™ cartridge. Max. working pressure: 232 psi (16 bar). Temperature range: 32–212°F (0–100°C). Max. percentage of glycol: 50%. Differential pressure control ranges: 2–14, 2–32, 4–34, 5–35 psid. Flow rate: 16 fixed flow rate settings ranging from 0.5–10 GPM. Flow accuracy: ±10%.

Code	Description
127346AF	1/2" press union
127356AF	3/4" press union
127366AF	1" press union

MOTORIZED BALL ZONE VALVES



2-way Straight

Two-way motorized ball zone valve. Straight. Max. ΔP close-off pressure: 150 psi. Temperature range: 20°–230°F. Power supply: 24 VAC. Power consumption: 4 VA. 3-wire control. 36" wire lead connection.

Code	Description
644246A	1/2" press union
644256A	3/4" press union
644266A	1" press union



3-way By-pass

Three-way motorized ball zone valve. By-pass. Max. ΔP close-off pressure: 150 psi. Temperature range: 20°–230°F. Power supply: 24 VAC. Power consumption: 4 VA. 3-wire control. 36" wire lead connection.

Code	Description
644346A 3BY	1/2" press union
644356A 3BY	3/4" press union
644366A 3BY	1" press union



3-way Diverting

Three-way motorized ball zone valve. Diverting. Max. ΔP close-off pressure: 150 psi. Temperature range: 20°–230°F. Power supply: 24 VAC. Power consumption: 4 VA. 3-wire control. 36" wire lead connection.

Code	Description
644346A	1/2" press union
644356A	3/4" press union
644366A	1" press union

PRESSURE REDUCING VALVE



535H

Pre-adjustable pressure reducing valve for residential and commercial applications. DZR low lead "Ecobrass" body. Unique noise reducing pressure balanced cartridge. Low friction anti-scale moving parts. High flow seat design. Dial indicator with direct readout. Replaceable cartridge. Integral stainless steel filter. Adjustment locking screw. Factory setting: 45 psi (3 bar). Certified to: ASSE 1003, CSA B356, NSF61, NSF 372, Low Lead

Code	Description
535650HA	3/4" press union
535651HA	3/4" press union with gauge

THERMO-ELECTRIC ZONE VALVES



6763

Two-way thermo-electric zone valve. Complete with 656414 actuator. Spring return. Normally closed. Brass valve body and trim. Max. body pressure: 150 psi. Max. Temperature: 200°F. Max. ΔP close-off pressure: 20 psi. Power supply: 24 V AC/DC. Initial current draw: ≤ 250 mA. Power consumption: holding: 3 W inrush: 6 VA Rating of micro-switch contacts: 5 A (24 V). 31.5" wire lead connection.

Code	Description
676346A	1/2" press union
676356A	3/4" press union
676366A	1" press union



6762

Two-way thermo-electric zone valve. Complete with TwisTop™ (code 656314) actuator. Spring return. Normally closed. Brass valve body and trim. Max. body pressure: 150 psi. Max. Temperature: 200°F. Max. ΔP close-off pressure: 20 psi. Power supply: 24 V AC/DC. Initial current draw: 800 mA.

Code	Description
676246A	1/2" press union
676256A	3/4" press union
676266A	1" press union



6760

Two-way zone valve body. For field installation of thermo-electric actuators 656314 or 656414. Brass body and trim. Max. body pressure: 150 psi. Max. temperature: 200°F.

Code	Description
676046A	1/2" press union
676056A	3/4" press union
676066A	1" press union

AUTOMATIC FILLING UNIT



AutoFill™

Automatic filling valve. Brass body. Complete with integral downstream pressure gauge and pressure setting adjustment knob. Max. working pressure: 365 psi. Max. working temperature: 140°F. Pressure setting range: 6–90 psi. Preset outlet pressure: 15 psi.

Code	Description
535056A	3/4" press union
535066A	1" press union

4-IN-1 HYDRAULIC SEPARATORS



SEP 4™

Combination 1. air, 2. hydraulic and 3. dirt separation, plus 4. magnetic separation
Epoxy resin coated steel body.
Particle separation capacity: to 5 µm.
Ferrous impurities separation: 100%.
Air separation efficiency: 100% to microbubble level.

Code	Description
549566A	1" press union
549567A	1¼" press union
549568A	1½" press union
549569A	2" press union

HYDRAULIC SEPARATORS



Hydro Separator

Hydraulic separator.
Epoxy resin coated steel body.
Stainless steel internal baffle.
Pre-formed insulation.
Complete with:
automatic air vent valve (code 502343A),
service check valve (code 561402A),
drain valve (code 538402 FD).
Union connections.

Code	Description
548066A	1" press union
548067A	1¼" press union
548068A	1½" press union
548069A	2" press union

AIR AND DIRT SEPARATORS



DISCAL DIRTMAG®

Air & Dirt separator with magnet.
Epoxy resin coated steel body.
Stainless steel mesh internal element.
Complete with union connections
Max. working pressure: 150 psi.
Working temperature range: 32—230°F.
Particle separation: to 5 µm (0.2 mil).
Ferrous impurities efficiency: 100%

Code	Description
546168A	1½" press union
546169A	2" press union

DIFFERENTIAL BY-PASS



519

Differential pressure by-pass valve.
Brass body.
Adjustable from 2 to 10 psi.
Max. working pressure: 150 psi.
Working temperature range: 32—230°F.
Flow: up to 9 gpm.

Code	Description
519566A	¾" press x ¾" press

AIR SEPARATORS



DISCAL®

Brass body.
Stainless steel float guide pin and linkage.
Max. working pressure: 150 psi.
Working temp. range: 32—250°F.

Code	Description
551066A	1" integral press
551066AC	1" integral press with check valve
551067A	1¼" integral press
551067AC	1¼" integral press with check valve

DIRT & MAGNETIC DIRT SEPARATORS



DIRTCAL®

Dirt separator with brass body.
½" NPT top thread with plug for optional air vent, code 502243A.
Max. working pressure: 150 psi.
Working temperature range: 32—250°F.

Code	Description
546266A	1" integral press
546267A	1¼" integral press



DIRTMAG®

Dirt separator with magnet.
Brass body.
½" NPT top thread with plug.
Max. working pressure: 150 psi.
Working temperature range: 32—250°F.

Code	Description
546366A	1" integral press
546367A	1¼" integral press

MAGNETIC DIRT SEPARATORS



DIRTMAG®

Dirt separator with magnet.
Brass mounting housing.
Composite PA66G30 body.
Max. working pressure: 45 psi.
Working temperature range: 32—195°F.

Code	Description
NA545365	¾" press union
NA545366	1" press union

THERMOSTATIC MIXING VALVES



MixCal™ Press

Adjustable thermostatic and pressure balanced mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems.
Low-lead brass body.
Locking set point knob.

Code	Description
521406A	½" press union
521416A	½" press with gauge
521506A	¾" press union
521516A	¾" press with gauge
521506AC	¾" press inlet check valves
521516AC	¾" press w/gauge/inlet checks
521606A	1" press union
521616A	1" press with gauge

PRESSCON™ FITTING KITS



Two Presscon™ copper press tail pieces with 1" brass union nuts and washers. Low lead.

Code	Description
NA12246	½" press with 1" union nut
NA12256	¾" press with 1" union nut
NA12266	1" press with 1" union slip nut



Three Presscon™ copper press tail pieces with 1" brass union nuts and washers. Low lead.

Code	Description
NA12346	½" press with 1" union nut
NA12356	¾" press with 1" union nut
NA12366	1" press with 1" union slip nut

PRESSCON™ FITTINGS



Presscon™ copper press tail piece with 1" brass union nut. Low lead. Requires sealing washer, not included.

Code	Description
NA16264	½" press with 1" union slip nut
NA16265	¾" press with 1" union nut
NA16266	1" press with 1" union slip nut



Presscon™ copper press low lead tail piece with check valve, requires R11217 1" slip nut.

Code	Description
NA10419C	¾" press long w/check fits 1" slip nut



Presscon™ long copper press tail piece with 1" brass union slip nut. Low lead. Requires sealing washer, not included.

Code	Description
NA16265L	¾" long press with 1" union slip nut
NA16265LC	¾" long press, 1" union nut/check valve

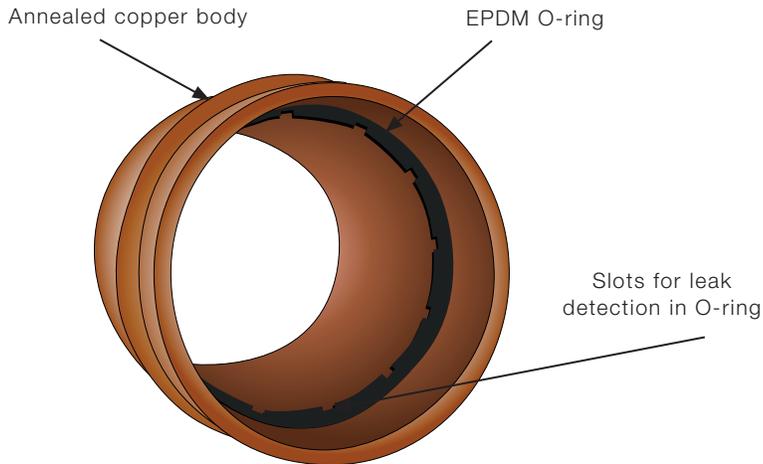
HYDRO SEPARATOR FITTINGS



Presscon™ press tail piece

Code	Description
NA10406	1" press, fits 548066A, 549566A
NA10407	1¼" press, fits 548067A, 549567A
NA10408	1½" press, fits 548068A, 549568A
NA10409	1" press, fits 548069A, 549569A

CHARACTERISTICS



PERFORMANCE

MAX. WORKING PRESSURE	200 psi (14 bar)
MAX. WORKING TEMPERATURE:	250°F (120°C)
MAX PERCENT OF GLYCOL:	50%
COPPER PIPE COMPATIBILITY:	type K, L & M
CONNECTION SIZES:	½", ¾", 1", 1¼", 1½" & 2" copper

PRESS CONNECTION BENEFITS

PRESSCON™ press connections are fast and easy installation with up to 60% time reduction. No proprietary tool required, works with industry standard tools. Water service connections can be made wet or dry, making repairs fast and easy.

Special slots in EPDM O-ring allows fluid to leak during system testing if unpressed and the perfect leak proof seal when completely pressed.

With no open flame required, PRESSCON™ eliminates the costs of solder, flux, torches, fire extinguishers, fire watch, hot work permits and other open flame requirements by Fire Prevention Code and OSHA.

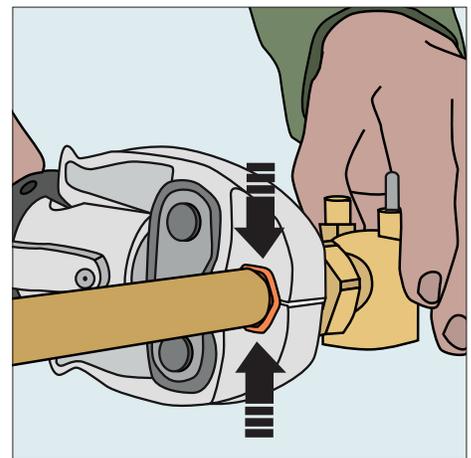
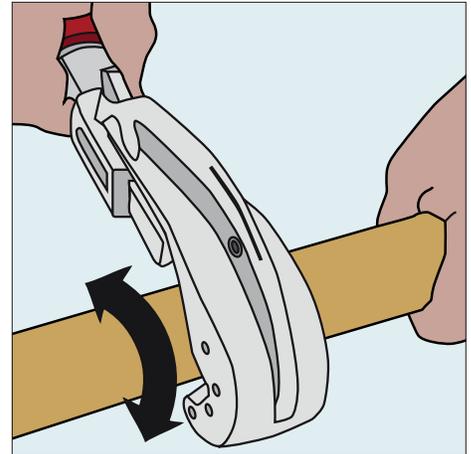
PRESSCON™ works with standard copper (K, L or M) pipe conforming to ASTM-B88. Factory installed EPDM O-rings. Low-lead are certified to NSF/ANSI 372.



REFERENCE DOCUMENTATION



INSTALLATION



CALEFFI
Hydronic Solutions

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