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Introduction

Eaton's FT1355 and FT1455 series projectile cleaning systems, and the FT1555 series CapSeal system are new additions to Eaton's family of hose assembly equipment focused on eliminating contamination in hydraulic systems. Contamination control is crucial during the preparation processes in assembling fittings on hose, tubes, and pipes.

The FT1355 and FT1455 series projectile cleaning systems offer industry leading contamination control during hose assembly preparation. The FT1455 series projectile cleaning system is available in both a hand-held and bench mount configuration. These systems shoot the FT1355 series cleaning projectiles through hose, tubes, and pipe assemblies. The FT1455 and FT1355 series projectile cleaning systems successfully remove rubber dust and metal particles arising from the hydraulic hose cutting process, remove metal flashings from the hose assembly process (crimping), and remove contaminated oil from hoses, tubes and pipes prior to installation in hydraulics systems.

In industry standard contamination measurement tests, the FT1355 and FT1455 series projectile cleaning systems yielded an industry leading cleanliness level of 13 to 18 (less than 2,500 ppml) in the 4 μ to 14 μ contaminant range.*

The FT1555 CapSeal system is intended to be used in conjunction with the FT1355 and FT1455 series projectile cleaning systems to prevent recontamination of hose, tube, and pipe assemblies. The FT1555 CapSeal system utilizes heat shrink technology to encapsulate the end of a hose or tube assembly with an FT1555 CapSeal capsule. Traditional capping and plugging methods increase the possibility of recontamination when ill-fitting caps and plugs are forced onto fittings, causing plastic particles to shear off, therefore contaminating a hose or tube assembly. Additionally, traditional capping and plugging methods require the exposed caps and plugs to be decontaminated prior to installation to minimize recontamination. The FT1555 CapSeal system eliminates recontamination issues, and provided a tightly sealed contaminant free assembly. The FT1555 system is also more user friendly during the capping and uncapping process versus using the traditional styles of caps and plugs.

Eaton's FT1555 series CapSeal system is available in both bench mount and hand-held options. The FT1555 capsules are also designed to encapsulate a broad variety of hose fittings and adapters with a minimal number of capsule sizes resulting in an overall less expensive capping solution.

Typical applications for Eaton's FT1355 and FT1455 series projectile cleaning systems, and the FT1555 series CapSeal system are outlined in the next section.



* ISO 4406:99 and ISO 4405 tests

Typical applications

Hydraulics	<ul style="list-style-type: none"> Removes rubber dust and metal particles from the hydraulic hose cutting process Removes metal flash from the crimping process on hose and tubes Removal of contaminated oil from hoses, tubes and pipes in hydraulic systems
Pneumatics	<ul style="list-style-type: none"> Eliminates rubber contamination, metal particles, contaminated oil and moisture that causes breakdowns and inefficiency
Heat Exchangers & Condensers	<ul style="list-style-type: none"> Eliminates contamination that reduces heat transfer resulting in low level performance
Steam Boilers	<ul style="list-style-type: none"> Removes most scaling in steam pipes for maintenance servicing
Air Conditioning & Refrigeration	<ul style="list-style-type: none"> Eliminates minute particles in copper tubes and coolant lines that affect system performance
Oxygen & Gas	<ul style="list-style-type: none"> Eliminates oil, grease and other contaminants from copper or S/S tubing
Oil, Gas & Chemical Processing	<ul style="list-style-type: none"> Efficient cleaning of pipes as part of service maintenance
Earthmoving Equipment	<ul style="list-style-type: none"> Maintenance Reduction in flushing time and filter usage
Automotive & Servicing	<ul style="list-style-type: none"> Cleaning of fuel lines and brake lines prior to assembly and servicing of components
Food & Beverage	<ul style="list-style-type: none"> Product Recovery Retrieval of product from lines. Reducing or eliminating solvents or detergents
Gun Barrels	<ul style="list-style-type: none"> To remove rust, scale or powder residue much faster than brushing or swabbing

Features and benefits

FT1455 series projectile cleaning systems

- Provides industry leading ISO cleanliness levels
- Simple and robust construction
- Available in hand-held and bench-mount configurations
- Ideal for portable small volume applications, and large volume production applications
- Broad variety of projectile and nozzle types and sizes to match application needs
- Minimal setup, works off shop air (80 to 110 psi)
- Capability:
 - 1/8" to 4-1/2" ID hose, tube or pipe
- Available in kits or individual replacement hardware components
- Kits available with and without projectiles



FT1555 series CapSeal systems

- Provides industry leading ISO cleanliness levels
- Robust construction for use in heavy duty applications
- Available in hand-held and bench-mount configurations
- Ideal for portable small volume applications, and large volume production applications
- Optimum CapSeal capsule design to meet a broad variety of applications
- Minimal setup
- Capability:
 - 1/4" to 2" ID hose and fitting ends
- Available in kits or individual replacement hardware components
- Kits available with and without projectiles



FT1455 projectile cleaning system hardware and packages

Projectile Cleaning System Hardware

Part No.	Description	Page
FT1455-L1†	Hand held projectile cleaning hardware for small hose diameters (up to 1-1/4" hose ID)	7
FT1455-L2†	Hand held projectile cleaning hardware for medium hose diameters (up to 2" hose ID)	7
FT1455-L3†	Hand held projectile cleaning hardware for large hose diameters (up to 3-1/2" hose ID)	7
FT1455-L4	Bench mount projectile cleaning hardware kit for small hose diameters (up to 1-1/4" hose ID; Includes 7 hose nozzles)	7

Projectile Cleaning System Kits

Part No.	Description	Page
FT1455-K1	Hand held projectile cleaning kit for small hose diameters (up to 1-1/4" hose ID; Includes FT1455-L1 launcher, 7 hose nozzles, FT1455-QC quick release coupling, and carrying case)	8
FT1455-K2	Hand held projectile cleaning starter kit for small hose diameters (up to 1-1/4" hose ID; Includes contents of FT1455-K1 and 11 bags of projectiles)	8
FT1455-K3	Hand held projectile cleaning kit for medium hose diameters (up to 2" hose ID; Includes FT1455-L2 launcher, 9 hose nozzles, FT1455-L2-AR1 adapter ring, FT1455-QC quick release coupling, and carrying case)	9
FT1455-K4	Hand held projectile cleaning starter kit for medium hose diameters (up to 2" hose ID; Includes contents of FT1455-K3 and 13 bags of projectiles)	9
FT1455-K5	Hand held projectile cleaning kit for large hose diameters (up to 3-1/2" hose ID; Includes FT1455-L3 launcher, FT1455-N-U55 Universal hose nozzle, FT1455-L3-AR2 adapter ring, FT1455-L3-AR3 adapter ring, FT1455-L3-LR locking ring, FT1455-QC quick release coupling, and carrying case)	10

Cleaning Projectiles*

Part No.	Description	Page
FT1355-H-XX	Cleaning projectiles for hose assemblies	11
FT1355-T-XX	Cleaning projectiles for stainless steel tube assemblies	11
FT1355-A-XX	Cleaning projectiles for tube and pipe assemblies	11

Projectile Cleaning Nozzles*

Part No.	Description	Page
FT1455-N-HXX	Nozzles for hose assemblies	13
FT1455-J-XX	Nozzles for hose assemblies with JIC fittings	13
FT1455-NT-XX	Nozzles for tube assemblies (Inch)	13
FT1455-NT-XXXXX	Nozzles for tube assemblies (metric)	13

Projectile Cleaning Hardware – Adapter & Locking Rings

Part No.	Description	Page
FT1455-L2-AR1	Adapter ring for FT1455-L2 launcher to receive 1/8" thru 1-1/4" nozzles	14
FT1455-L3-LR	3-1/2" aluminum locking ring for FT1455-L3 launcher	14
FT1455-L3-AR2	Adapter ring for FT1455-L3 launcher to receive 1/8" thru 1-1/4" nozzles	14
FT1455-L3-AR3	Adapter ring for FT1455-L3 launcher to receive 1-1/2" thru 2" nozzles	14

Projectile Cleaning Accessories

Part No.	Description	Page
FT1455-NH25	Desktop nozzle holder	18
FT1455-QC	Quick release coupling	18
FT1455-CC	Carrying case	18
E-EQCR-TT003E	FT1455-L4 Bench Mount Launcher Operating Instructions	18

†Hardware includes projectile launcher hardware only, and is intended for replacement purposes only.

*Where XX and XXXXX within the part number denotes the applicable dimensions of the projectile or nozzle.

FT1555 CapSeal hardware and packages

CapSeal System Hardware

Part No.	Description	Page
FT1555-HH	Hand held electric heat gun	19
FT1555-BM	Bench mount production heat shrink machine	19

CapSeal System Kits

Part No.	Description	Page
FT1555-K1	Hand held electric heat gun basic kit (up to 1-1/2" hose and tube ends)	20
FT1555-K2	Hand held electric heat gun starter kit (up to 1-1/2" hose and tube ends)	20
FT1555-K3	Hand held electric heat gun premium starter kit (up to 1-1/2" hose and tube ends)	21

CapSeal System Accessories

Part No.	Description	Page
FT1555-HH-D15	1-1/2" diffuser for FT1555-HH hand held electric heat gun	22
FT1555-HH-D20	2" diffuser for FT1555-HH hand held electric heat gun	22
FT1555-HH-ST	Flexible stand for FT1555-HH hand held electric heat gun	22
E-EQCR-TT006-E	FT1555-BM Bench Mount Capping Machine Operating Instructions	22

*Where XXXX within the part number the part number denotes the applicable dimensions of the CapSeal capsule.

FT1455 projectile cleaning system hardware

Note: For proper operation the following are required:

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum air pressure
- 1/2" ID air hose with a minimum of 55 SCFM (1.6 m³/min) air flow rate†
- 5 micron air filter and regulator with gauge are strongly suggested
- A large industrial compressor is strongly recommended
- A compressed air dryer is strongly recommended



FT1455-L1

Hand held projectile cleaning hardware for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/8" through 1/4" ID hose, tube or pipe assemblies
- Construction – Simple construction with durable brass and aluminum parts with rigid plastic handle
- Form factor – Hand-held, Portable - ideal for mobile applications
- Typical applications – small volume hose shop environments
- Includes hand-held launcher hardware only. Does not include adapter rings and nozzles for operation. Intended for replacement purposes only



FT1455-L2

Hand held projectile cleaning hardware for medium hose diameters (up to 2" hose ID)

- Capability – For use with 1/8" through 2" ID hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Production hose and tube shops, mobile hose fabricators and mobile applications
- Includes hand-held launcher hardware only. Does not include adapter rings and nozzles for operation. Intended for replacement purposes only



FT1455-L3

Hand held projectile cleaning hardware for large hose diameters (up to 3-1/2" hose ID)*

- Capability – For use with 1/8" through 3-1/2" ID hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Production hose and tube shops, mobile hose fabricators and mobile applications
- Includes hand-held launcher hardware only. Does not include adapter rings and nozzles for operation. Intended for replacement purposes only



FT1455-L4

Bench mount projectile cleaning hardware kit for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/8" through 1-1/4" ID hose, tube or pipe assemblies
- Construction – Stainless steel housing with anodized aluminum components
- Form factor – Bench mount – ideal for production assemblies (1.2 second cycle time)
- Typical applications - Production hose and tube shops
- Includes bench mount launcher hardware, 5 micron air filter, pneumatic foot switch and twin line air hose and 7 nozzles for hose ID ranging from 1/4" through 1-1/4"

†A minimum of 38 SCFM (1.1 m³/min) air flow rate at 80 PSI (5.5 Bar) is required for FT1455-L3 launcher

*FT1455-L3 can be converted to work on hose ID up to 4" with the addition of FT1455-N-45 4-1/2" aluminum locking nozzle.

FT1455 projectile cleaning system kits

Note: For proper operation the following are required:

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum air pressure
- 1/2" ID air hose with a minimum of 55 SCFM (1.6 m³/min) air flow rate

FT1455-K1



Hand held projectile cleaning kit for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/8" through 1-1/4" ID hose, tube or pipe assemblies
- Construction – Simple construction with durable brass and aluminum parts with rigid plastic handle
- Form factor – Hand-held, Portable - ideal for mobile applications
- Typical applications – small volume hose shop environments
- FT1455-K1 kit includes
 - FT1455-L1 Hand held projectile cleaning hardware for small hose diameters
 - FT1455-N-H06 hose nozzle for 1/4" hose ID
 - FT1455-N-H10 hose nozzle for 3/8" hose ID
 - FT1455-N-H13 hose nozzle for 1/2" hose ID
 - FT1455-N-H16 hose nozzle for 5/8" hose ID
 - FT1455-N-H19 hose nozzle for 3/4" hose ID
 - FT1455-N-H25 hose nozzle for 1" hose ID
 - FT1455-N-H32 hose nozzle for 1-1/4" hose ID
 - FT1455-QC quick release coupling
 - FT1455-CC carrying case

- 5 micron air filter and regulator with gauge are strongly suggested
- A large industrial compressor is strongly recommended
- A compressed air dryer is strongly recommended

FT1455-K2



Hand held projectile cleaning starter kit for small hose diameters (up to 1-1/4" hose ID)

- Capability – For use with 1/8" through 1-1/4" ID hose, tube or pipe assemblies
- Construction – Simple construction with durable brass and aluminum parts with rigid plastic handle
- Form factor – Hand-held, Portable - ideal for mobile applications
- Typical applications – small volume hose shop environments
- FT1455-K2 kit includes in addition to contents of FT1455-K1 kit
 - FT1455-L1 Hand held projectile cleaning hardware for small hose diameters
 - FT1355-H-07 07mm hose projectile
 - FT1355-H-08 08mm hose projectile
 - FT1355-H-10 10mm hose projectile
 - FT1355-H-12 12mm hose projectile
 - FT1355-H-14 14mm hose projectile
 - FT1355-H-16 16mm hose projectile
 - FT1355-H-18 18mm hose projectile
 - FT1355-H-20 20mm hose projectile
 - FT1355-H-22 22mm hose projectile
 - FT1355-H-24 24mm hose projectile
 - FT1355-H-26 26mm hose projectile
 - FT1355-H-28 28mm hose projectile
 - FT1355-H-30 30mm hose projectile
 - FT1355-H-33 33mm hose projectile
 - FT1355-H-36 36mm hose projectile
 - FT1355-H-40 40mm hose projectile
 - Projectile catcher bucket

FT1455 projectile cleaning system kits continued

Note: For proper operation the following are required:

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum air pressure
- 1/2" ID air hose with a minimum of 55 SCFM (1.6 m³/min) air flow rate
- 5 micron air filter and regulator with gauge are strongly suggested
- A large industrial compressor is strongly recommended
- A compressed air dryer is strongly recommended

FT1455-K3



Hand held projectile cleaning kit for medium hose diameters (up to 2" hose ID)

- Capability – For use with 1/8" through 2" ID hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Production hose and tube shops, mobile hose fabricators and mobile applications
- FT1455-K3 kit includes
 - FT1455-L2 Hand held projectile cleaning hardware for medium hose diameters
 - FT1455-L2-AR1 adapter ring
 - FT1455-N-H06 hose nozzle for 1/4" hose ID
 - FT1455-N-H10 hose nozzle for 3/8" hose ID
 - FT1455-N-H13 hose nozzle for 1/2" hose ID
 - FT1455-N-H16 hose nozzle for 5/8" hose ID
 - FT1455-N-H19 hose nozzle for 3/4" hose ID
 - FT1455-N-H25 hose nozzle for 1" hose ID
 - FT1455-N-H32 hose nozzle for 1-1/4" hose ID
 - FT1455-N-H38 hose nozzle for 1-1/2" hose ID
 - FT1455-N-H50 hose nozzle for 2" hose ID
 - FT1455-QC quick release coupling
 - FT1455-CC carrying case

FT1455-K4



Hand held projectile cleaning kit for medium hose diameters (up to 2" hose ID)

- Capability – For use with 1/8" through 2" ID hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Production hose and tube shops, mobile hose fabricators and mobile applications
- FT1455-K4 kit includes in addition to contents of FT1455-K3 kit
 - FT1355-H-07 07mm hose projectile
 - FT1355-H-08 08mm hose projectile
 - FT1355-H-10 10mm hose projectile
 - FT1355-H-12 12mm hose projectile
 - FT1355-H-14 14mm hose projectile
 - FT1355-H-16 16mm hose projectile
 - FT1355-H-18 18mm hose projectile
 - FT1355-H-20 20mm hose projectile
 - FT1355-H-22 22mm hose projectile
 - FT1355-H-24 24mm hose projectile
 - FT1355-H-26 26mm hose projectile
 - FT1355-H-28 28mm hose projectile
 - FT1355-H-30 30mm hose projectile
 - FT1355-H-33 33mm hose projectile
 - FT1355-H-36 36mm hose projectile
 - FT1355-H-40 40mm hose projectile
 - FT1355-H-45 45mm hose projectile
 - FT1355-H-50 50mm hose projectile
 - FT1355-H-55 55mm hose projectile
 - FT1355-H-60 60mm hose projectile
 - Projectile catcher bucket
 - Launcher stand

FT1455 projectile cleaning system kits continued

Note: For proper operation the following are required:

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum air pressure
- 1/2" ID air hose with a minimum of 55 SCFM (1.6 m³/min) air flow rate
- 5 micron air filter and regulator with gauge are strongly suggested
- A large industrial compressor is strongly recommended
- A compressed air dryer is strongly recommended

FT1455-K5



Hand held projectile cleaning hardware kit for large hose diameters (up to 3-1/2" hose ID)*

- Capability – For use with 1/8" through 4-1/2" hose, tube or pipe assemblies
- Construction - Precision machined aluminum with fully anodized components
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Production hose and tube shops, mobile hose fabricators and mobile applications
- FT1455-K5 kit includes
 - FT1455-L3 Hand held projectile cleaning hardware for large hose diameters
 - FT1455-L3-AR2 adapter ring
 - FT1455-L3-AR3 adapter ring
 - FT1455-N-U55 Universal hose nozzle
 - FT1455-L3-LR locking ring
 - FT1455-QC quick release coupling
 - FT1455-CC carrying case
- Includes contents detailed above only. Does not include nozzles for operation

†A minimum of 38 SCFM (1.1 m³/min) air flow rate at 80 PSI (5.5 Bar) is required for FT1455-L3 launcher

*FT1455-L3 can be converted to work on hose ID up to 4" with the addition of FT1455-N-45 4-1/2" aluminum locking nozzle.

FT1355 cleaning projectiles overview

FT1355 cleaning projectiles work by being compressed against the internal surface of the hose, tube or pipe. As a guideline, cleaning projectile selection should favor a diameter 20% to 30% larger than the internal diameter of the hose, tube or pipe being cleaned to ensure that sufficient pressure is generated for cleaning. For example, a 2" (50mm) hose cleaning projectile would be recommended for a 1-1/2" (38mm) hose ID. Detailed Eaton guidelines for cleaning projectile selection are outlined in the following sections.

Projectiles are available in 3 variations as outlined below, and are manufactured from virgin materials with a specific cell structure and density to match the application's needs. Appropriate selection of the cleaning projectile based on the type of application ensures effective cleaning, that is capable of achieving industry leading cleanliness levels during assembly.*

* ISO 4406:99 and ISO 4405 tests



FT1355-H-XX

Hose cleaning projectiles for hose assemblies

- Universal cleaning projectile for use with hose, tube and pipe assemblies
- Removes fine particles of loose contaminants after cutting operations
- Can also be used for product purging prior to assembly



FT1355-T-XX

Tube cleaning projectiles for tube assemblies

- Cleaning projectiles for use with tube and pipe assemblies
- Removes mild to medium amounts of contaminants including surface rust and scale build-up
- Removes mandrel lubricants, grease and other oils typically used in bending processes
- Strongly recommended for cleaning stainless steel tubes



FT1355-A-XX

Abrasive cleaning projectiles for tube and pipe assemblies

- For use with tubes or pipe assemblies
- Removes mild to medium amounts of contaminants including surface rust and scale build-up
- Can be used multiple times

FT1355 cleaning projectiles

overview continued

Eaton's cleaning projectiles are available in a variety of sizes denoted by their diameter in mm and forms to meet varying requirements in the field.

FT1355-H-XX Cleaning projectiles for hose assemblies

Part No.	Description
FT1355-H-05	Hose cleaning projectile (05mm)
FT1355-H-06	Hose cleaning projectile (06mm)
FT1355-H-07	Hose cleaning projectile (07mm)
FT1355-H-08	Hose cleaning projectile (08mm)
FT1355-H-10	Hose cleaning projectile (10mm)
FT1355-H-12	Hose cleaning projectile (12mm)
FT1355-H-14	Hose cleaning projectile (14mm)
FT1355-H-16	Hose cleaning projectile (16mm)
FT1355-H-18	Hose cleaning projectile (18mm)
FT1355-H-20	Hose cleaning projectile (20mm)
FT1355-H-22	Hose cleaning projectile (22mm)
FT1355-H-24	Hose cleaning projectile (24mm)
FT1355-H-26	Hose cleaning projectile (26mm)
FT1355-H-28	Hose cleaning projectile (28mm)
FT1355-H-30	Hose cleaning projectile (30mm)
FT1355-H-33	Hose cleaning projectile (33mm)
FT1355-H-36	Hose cleaning projectile (36mm)
FT1355-H-40	Hose cleaning projectile (40mm)
FT1355-H-45	Hose cleaning projectile (45mm)
FT1355-H-50	Hose cleaning projectile (50mm)
FT1355-H-55	Hose cleaning projectile (55mm)
FT1355-H-60	Hose cleaning projectile (60mm)
FT1355-H-65	Hose cleaning projectile (65mm)
FT1355-H-70	Hose cleaning projectile (70mm)
FT1355-H-75	Hose cleaning projectile (75mm)
FT1355-H-80	Hose cleaning projectile (80mm)
FT1355-H-85	Hose cleaning projectile (85mm)
FT1355-H-90	Hose cleaning projectile (90mm)
FT1355-H-95	Hose cleaning projectile (95mm)
FT1355-H-100	Hose cleaning projectile (00mm)

FT1355-A-XX Abrasive cleaning projectiles for tube and pipe assemblies

Part No.	Description
FT1355-A-06	Abrasive cleaning projectile (06mm)
FT1355-A-07	Abrasive cleaning projectile (07mm)
FT1355-A-10	Abrasive cleaning projectile (10mm)
FT1355-A-12	Abrasive cleaning projectile (12mm)
FT1355-A-14	Abrasive cleaning projectile (14mm)
FT1355-A-16	Abrasive cleaning projectile (16mm)
FT1355-A-18	Abrasive cleaning projectile (18mm)
FT1355-A-20	Abrasive cleaning projectile (20mm)
FT1355-A-22	Abrasive cleaning projectile (22mm)
FT1355-A-24	Abrasive cleaning projectile (24mm)
FT1355-A-26	Abrasive cleaning projectile (26mm)
FT1355-A-28	Abrasive cleaning projectile (28mm)
FT1355-A-30	Abrasive cleaning projectile (30mm)
FT1355-A-33	Abrasive cleaning projectile (33mm)
FT1355-A-36	Abrasive cleaning projectile (36mm)
FT1355-A-40	Abrasive cleaning projectile (40mm)
FT1355-A-45	Abrasive cleaning projectile (45mm)
FT1355-A-50	Abrasive cleaning projectile (50mm)
FT1355-A-55	Abrasive cleaning projectile (55mm)
FT1355-A-60	Abrasive cleaning projectile (60mm)

FT1355-T-XX Tube cleaning projectiles for tube assemblies

Part No.	Description
FT1355-T-06	Tube cleaning projectile (06mm)
FT1355-T-07	Tube cleaning projectile (07mm)
FT1355-T-10	Tube cleaning projectile (10mm)
FT1355-T-12	Tube cleaning projectile (12mm)
FT1355-T-14	Tube cleaning projectile (14mm)
FT1355-T-16	Tube cleaning projectile (16mm)
FT1355-T-18	Tube cleaning projectile (18mm)
FT1355-T-20	Tube cleaning projectile (20mm)
FT1355-T-22	Tube cleaning projectile (22mm)
FT1355-T-24	Tube cleaning projectile (24mm)
FT1355-T-26	Tube cleaning projectile (26mm)
FT1355-T-28	Tube cleaning projectile (28mm)
FT1355-T-30	Tube cleaning projectile (30mm)
FT1355-T-33	Tube cleaning projectile (33mm)
FT1355-T-36	Tube cleaning projectile (36mm)
FT1355-T-40	Tube cleaning projectile (40mm)
FT1355-T-45	Tube cleaning projectile (45mm)
FT1355-T-50	Tube cleaning projectile (50mm)
FT1355-T-55	Tube cleaning projectile (55mm)
FT1355-T-60	Tube cleaning projectile (60mm)

FT1455 cleaning nozzles overview

Broad variety of nozzles are available allowing the operator to select the ideal nozzle for each application based on the different size and type of hoses, hose fittings, tube

and pipe assemblies. All nozzle sizes are denoted by the projectile exit diameter (mm).



FT1455-N-HXX

Nozzles for hose assemblies

- Universal nozzle for use with hoses
- Also work on pipe, heavy walled tubing and many fitting configurations



FT1455-J-XX

Nozzles for hose assemblies with JIC fittings

- Nozzles molded with 37° male flare on tip to fit female JIC fittings on hose assemblies



FT1455-NT-XX

Nozzles for tube assemblies (Inch)

- Nominal inch tube nozzles have a lip on the inside that forms an airtight seal when tube is fully inserted into the nozzle



FT1455-NT-XXXXX

Nozzles for tube assemblies (Metric)

- Metric tube nozzles have a lip on the inside that forms an airtight seal when tube is fully inserted into the nozzle
- Metric tube nozzle designations utilize the largest wall thickness for a given outside diameter, but fit all smaller wall thicknesses as well

Part No.	Description
FT1455-N-HXX	Nozzles for hose assemblies
FT1455-N-H06	Hose nozzle (1/4")
FT1455-N-H08	Hose nozzle (5/16")
FT1455-N-H10	Hose nozzle (3/8")
FT1455-N-H13	Hose nozzle (1/2")
FT1455-N-H16	Hose nozzle (5/8")
FT1455-N-H19	Hose nozzle (3/4")
FT1455-N-H25	Hose nozzle (1")
FT1455-N-H32	Hose nozzle (1-1/4")
FT1455-N-H38	Hose nozzle (1-1/2")
FT1455-N-H50	Hose nozzle (2")
FT1455-N-U55	Universal Hose Nozzle (1-1/8" thru 3-1/2")
FT1455-N-45	4-1/2" Aluminum Locking Nozzle

FT1455-J-XX	Nozzles for hose assemblies with JIC fittings
FT1455-J-06	JIC nozzle (-4, 1/4")
FT1455-J-10	JIC nozzle (-6, 3/8")
FT1455-J-13	JIC/TUBE nozzle (-8, 1/2")
FT1455-J-16	JIC/TUBE nozzle (-10, 5/8")
FT1455-J-19	JIC/TUBE nozzle (-12, 3/4")
FT1455-J-25	JIC/TUBE nozzle (-16, 1" & 7/8")
FT1455-J-32	JIC/TUBE nozzle (-20, 1-1/4" & 1")
FT1455-J-38	JIC/TUBE nozzle (-24, 1-1/2")
FT1455-J-50	JIC/TUBE nozzle (-32, 2")

FT1455-NT-XX	Nozzles for tube assemblies (Inch)
FT1455-NT-32	TUBE Nozzle 1 1/4" OD
FT1455-NT-06	TUBE nozzle 1/4" OD
FT1455-NT-03	TUBE nozzle 1/8" OD
FT1455-NT-10	TUBE nozzle 3/8" OD
FT1455-NT-08	TUBE nozzle 5/16" OD

FT1455-NT-XX	Nozzles for tube assemblies (Metric) Outside Diameter x Wall Thickness
FT1455-NT-06x1.5	Metric Tube Nozzle UC-6 X 1.5
FT1455-NT-08x1.5	Metric Tube Nozzle UC-8 X 1.5
FT1455-NT-10x1.5	Metric Tube Nozzle UC-10 X 1.5
FT1455-NT-12x2.0	Metric Tube Nozzle UC-12 X 2.0
FT1455-NT-14x2.0	Metric Tube Nozzle UC-14 X 2.0
FT1455-NT-15x2.0	Metric Tube Nozzle UC-15 X 2.0
FT1455-NT-16x2.5	Metric Tube Nozzle UC-16 X 2.5
FT1455-NT-18x2.5	Metric Tube Nozzle UC-18 X 2.5
FT1455-NT-20x3.0	Metric Tube Nozzle UC-20 X 3.0
FT1455-NT-22x2.0	Metric Tube Nozzle UC-22 X 2.0
FT1455-NT-25x3.0	Metric Tube Nozzle UC-25 X 3.0
FT1455-NT-28x2.5	Metric Tube Nozzle UC-28 X 2.5
FT1455-NT-30x4.0	Metric Tube Nozzle UC-30 X 4.0
FT1455-NT-35x3.0	Metric Tube Nozzle UC-35 X 3.0
FT1455-NT-38x5.0	Metric Tube Nozzle UC38 X 5.0
FT1455-NT-42x3.0	Metric Tube Nozzle UC-42 X 3.0
FT1455-NT-50x5.0	Metric Tube Nozzle UC-50 X 5.0
FT1455-4FFORX	Nozzle for use with flat face O-ring seal fittings (FROS)

FT1455 adapter & locking rings overview



FT1455-L2-AR1

Adapter ring for FT1455-L2 launcher to receive 1/8" thru 1-1/4" nozzles

- FT1455-L2-AR1 adapter ring fits the FT1455-L2 hand held launcher and all nozzle types and sizes between 1/8" and 1-1/4"



FT1455-L3-LR

3-1/2" aluminum locking ring for FT1455-L3 launcher

- FT1455-L3-LR locking ring fits FT1455-L3 hand held launcher, both FT1455-L3-AR2 & FT1455-L3-AR3 adapter rings, and FT1455-N-U55 Universal hose nozzle



FT1455-L3-AR2

Adapter ring for FT1455-L3 launcher to receive 1/8" thru 1-1/4" nozzles

- FT1455-L3-AR2 adapter ring fits the FT1455-L3 hand held launcher and all nozzle types and sizes between 1/8" and 1-1/4"



FT1455-L3-AR3

Adapter ring for FT1455-L3 launcher to receive 1-1/2" thru 2" nozzles

- FT1455-L3-AR3 adapter ring fits the FT1455-L3 hand held launcher and all nozzle types and sizes between 1-1/2" and 2"

FT1455 cleaning nozzle & FT1355 cleaning projectile selection guidelines

As outlined, cleaning projectile should be 20% to 30% larger than the internal diameter of the hose, tube or pipe being cleaned to ensure that sufficient cleaning pressure. In specific applications however, operators may require the use of a larger or smaller cleaning projectile than the 20% to 30% larger guideline. If the selected cleaning

projectile is too large it may not exit the nozzle. Conversely, if the cleaning projectile is too small it may not clean as effectively. Moreover, the broad variety of fittings and couplings available in the market limit the ability to recommend an appropriate cleaning projectile size for a broad variety of hose assemblies.

Recommended nozzles and cleaning projectiles for hoses and hose assemblies

Recommendations for hoses

Nominal Diameter

Inches	mm	Nozzle Part #	Cleaning projectile part #		
3/16	05	FT1455-N-H06	FT1355-H-06		
¼	06	FT1455-N-H06	FT1355-H-10	or	FT1355-H-12
5/16	08	FT1455-N-H08	FT1355-H-12	or	FT1355-H-14
3/8	10	FT1455-N-H10	FT1355-H-14	or	FT1355-H-16
½	13	FT1455-N-H13	FT1355-H-18	or	FT1355-H-20
5/8	16	FT1455-N-H16	FT1355-H-22		
¾	19	FT1455-N-H19	FT1355-H-26		
1	25	FT1455-N-H25	FT1355-H-33	or	FT1355-H-36
1-1/4	32	FT1455-N-H32	FT1355-H-40	or	FT1355-H-45
1-1/2	38	FT1455-N-H38	FT1355-H-50	or	FT1355-H-55
2	50	FT1455-N-H50	FT1355-H-60	or	FT1355-H-65
2-1/2	63	FT1455-N-U55	FT1355-H-75		
3	76	FT1455-N-U55	FT1355-H-85		
3-1/2	89	FT1455-N-U55	FT1355-H-100		
4	102	FT1455-N-45			
4-1/2	114	FT1455-N-45			

Recommendations for hose assemblies with JIC fittings

JIC fitting dash size	Nozzle Part #	Cleaning projectile part #
-4	FT1455-J-06	FT1355-H-06 OR FT1355-H-07
-6	FT1455-J-10	FT1355-H-12
-8	FT1455-J-13	FT1355-H-16
-10	FT1455-J-16	FT1355-H-22
-12	FT1455-J-19	FT1355-H-26
-16	FT1455-J-25	FT1355-H-33
-20	FT1455-J-32	FT1355-H-40
-24	FT1455-J-38	FT1355-H-50
-32	FT1455-J-50	FT1355-H-60

Recommendations for hose assemblies with ORS fittings

ORS fitting dash size	Nozzle Part #	Cleaning projectile part #
-4	FT1455-4FFORX	FT1355-H-06 OR FT1355-H-07
-6	FT1455-N-H06	FT1355-H-12
-8	FT1455-N-H10	FT1355-H-16
-10	FT1455-N-H13	FT1355-H-22
-12	FT1455-N-H16	FT1355-H-26
-16	FT1455-N-H19	FT1355-H-33
-20	FT1455-N-H25	FT1355-H-40

Recommendations for hose assemblies with code 61 or 62 flanges

Code 61 or 62 flange dash size	Nozzle Part #	Cleaning projectile part #
-8	FT1455-N-H10	FT1355-H-16
-10	FT1455-N-H13	FT1355-H-22
-12	FT1455-N-H16	FT1355-H-26
-16	FT1455-N-H19	FT1355-H-33
-20	FT1455-N-H25	FT1355-H-40
-24	FT1455-N-H32	FT1355-H-50
-32	FT1455-N-H32	FT1355-H-60

FT1455 cleaning nozzle and FT1355 cleaning projectile selection guidelines continued

Recommended nozzles and cleaning projectiles for tubes (inch)

Outside Diameter x Wall thickness	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #	Tube projectile part #
1/8" X .030"	FT1455-NT-03	-	-	-
1/4" X .035"	FT1455-NT-06	FT1355-H-10	FT1355-A-07	FT1355-T-06
1/4" X .049"	FT1455-NT-06	FT1355-H-08	FT1355-A-07	FT1355-T-06
1/4" X .065"	FT1455-NT-06	FT1355-H-07	-	FT1355-T-06
5/16" X .035"	FT1455-NT-08	FT1355-H-12	FT1355-A-10	FT1355-T-07
3/8" X .035"-.049"	FT1455-NT-10	FT1355-H-14	FT1355-A-12	FT1355-T-10
3/8" X .065"	FT1455-NT-10	FT1355-H-12	FT1355-A-10	FT1355-T-10
1/2" X .035"	FT1455-J-13	FT1355-H-16	FT1355-A-16	FT1355-T-14
1/2" X .049"	FT1455-J-13	FT1355-H-16	FT1355-A-16	FT1355-T-12
1/2" X .065"	FT1455-J-13	FT1355-H-16	FT1355-A-14	FT1355-T-12
1/2" X .083"	FT1455-J-13	FT1355-H-14	FT1355-A-12	FT1355-T-12
5/8" X .049"	FT1455-J-16	FT1355-H-22	FT1355-A-20	FT1355-T-16
5/8" X .065"	FT1455-J-16	FT1355-H-20	FT1355-A-18	FT1355-T-16
5/8" X .083"	FT1455-J-16	FT1355-H-20	FT1355-A-18	FT1355-T-14
3/4" X .049"-.065"	FT1455-J-19	FT1355-H-26	FT1355-A-24	FT1355-T-20
3/4" X .095"	FT1455-J-19	FT1355-H-22	FT1355-A-20	FT1355-T-18
7/8" X .049"	FT1455-J-25	FT1355-H-33	FT1355-A-30	FT1355-T-26
7/8" X .065"	FT1455-J-25	FT1355-H-30	FT1355-A-28	FT1355-T-22
7/8" X .095"	FT1455-N-H16	FT1355-H-28	FT1355-A-26	FT1355-T-22
1" X .065"	FT1455-J-32	FT1355-H-33	FT1355-A-30	FT1355-T-28
1" X .083"-.095"	FT1455-J-32	FT1355-H-33	FT1355-A-30	FT1355-T-26
1" X .120"	FT1455-J-32	FT1355-H-30	FT1355-A-28	FT1355-T-26
1-1/4" X .065"	FT1455-NT-32	FT1355-H-40	FT1355-A-40	FT1355-T-33
1-1/4" X .083"	FT1455-NT-32	FT1355-H-40	FT1355-A-36	FT1355-T-33
1-1/4" X .095"	FT1455-NT-32	FT1355-H-40	FT1355-A-36	FT1355-T-33
1-1/4" X .109"	FT1455-NT-32	FT1355-H-36	FT1355-A-36	FT1355-T-33
1-1/4" X .120"	FT1455-NT-32	FT1355-H-36	FT1355-A-33	FT1355-T-33
1-1/2" X .065"-.120"	FT1455-J-38	FT1355-H-50	FT1355-A-45	FT1355-T-40
1-1/2" X .134"-.148"	FT1455-J-38	FT1355-H-45	FT1355-A-40	FT1355-T-40
2" X .065"-.120"	FT1455-J-50	FT1355-H-60	FT1355-A-55	FT1355-T-50
2" X .134"-.188"	FT1455-J-50	FT1355-H-55	FT1355-A-50	FT1355-T-50

FT1455 cleaning nozzle and FT1355 cleaning projectile selection guidelines continued

Recommended nozzles and cleaning projectiles for tubes (metric)

Outside Diameter x Wall thickness	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #	Tube projectile part #
6 X 1.0	FT1455-NT-06x1.5	FT1355-H-07	FT1355-A-06	FT1355-T-06
6 X 1.5	FT1455-NT-06x1.5	FT1355-H-07	FT1355-A-06	-
8 X 1.0	FT1455-NT-08x1.5	FT1355-H-10	FT1355-A-07	FT1355-T-07
8 X 1.5	FT1455-NT-08x1.5	FT1355-H-10	FT1355-A-07	FT1355-T-07
10 X 1.0	FT1455-NT-10x1.5	FT1355-H-14	FT1355-A-12	FT1355-T-12
10 X 1.5	FT1455-NT-10x1.5	FT1355-H-14	FT1355-A-12	FT1355-T-12
12 X 1.0	FT1455-NT-12x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14
12 X 1.5	FT1455-NT-12x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14
12 X 2.0	FT1455-NT-12x2.0	FT1355-H-14	FT1355-A-12	FT1355-T-12
14 X 1.0	FT1455-NT-14x2.0	FT1355-H-18	FT1355-A-16	FT1355-T-16
14 X 1.5	FT1455-NT-14x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14
14 X 2.0	FT1455-NT-14x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14
15 X 1.0	FT1455-NT-15x2.0	FT1355-H-20	FT1355-A-18	FT1355-T-16
15 X 1.5	FT1455-NT-15x2.0	FT1355-H-18	FT1355-A-16	FT1355-T-16
15 X 2.0	FT1455-NT-15x2.0	FT1355-H-16	FT1355-A-14	FT1355-T-14
16 X 1.0	FT1455-NT-16x2.5	FT1355-H-22	FT1355-A-20	FT1355-T-18
16 X 1.5	FT1455-NT-16x2.5	FT1355-H-20	FT1355-A-18	FT1355-T-16
16 X 2.0	FT1455-NT-16x2.5	FT1355-H-18	FT1355-A-16	FT1355-T-16
16 X 2.5	FT1455-NT-16x2.5	FT1355-H-16	FT1355-A-14	FT1355-T-14
18 X 1.0	FT1455-NT-18x2.5	FT1355-H-24	FT1355-A-22	FT1355-T-20
18 X 1.5	FT1455-NT-18x2.5	FT1355-H-24	FT1355-A-20	FT1355-T-18
18 X 2.0	FT1455-NT-18x2.5	FT1355-H-22	FT1355-A-20	FT1355-T-18
18 X 2.5	FT1455-NT-18x2.5	FT1355-H-20	FT1355-A-18	FT1355-T-16
20 X 1.5	FT1455-NT-20x3.0	FT1355-H-26	FT1355-A-24	FT1355-T-22
20 X 2.0	FT1455-NT-20x3.0	FT1355-H-24	FT1355-A-22	FT1355-T-20
20 X 2.5	FT1455-NT-20x3.0	FT1355-H-24	FT1355-A-20	FT1355-T-18
20 X 3	FT1455-NT-20x3.0	FT1355-H-22	FT1355-A-20	FT1355-T-18
22 X 1	FT1455-NT-22x2.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
22 X 1.5	FT1455-NT-22x2.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
22 X 2	FT1455-NT-22x2.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
25 X 2	FT1455-NT-25x3.0	FT1355-H-33	FT1355-A-30	FT1355-T-28
25 X 2.5	FT1455-NT-25x3.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
25 X 3	FT1455-NT-25x3.0	FT1355-H-30	FT1355-A-28	FT1355-T-26
28 X 2	FT1455-NT-28x2.5	FT1355-H-36	FT1355-A-33	FT1355-T-33
28 X 2.5	FT1455-NT-28x2.5	FT1355-H-36	FT1355-A-33	FT1355-T-30
30 X 2	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-33
30 X 2.5	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-30
30 X 3	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-30
30 X 4	FT1455-NT-30x4.0	FT1355-H-36	FT1355-A-33	FT1355-T-30
35 X 2	FT1455-NT-35x3.0	FT1355-H-45	FT1355-A-40	FT1355-T-40
35 X 3	FT1455-NT-35x3.0	FT1355-H-40	FT1355-A-36	FT1355-T-36
35 X 4	FT1455-N-H25	FT1355-H-40	FT1355-A-36	FT1355-T-33
35 X 5	FT1455-N-H25	FT1355-H-36	FT1355-A-33	FT1355-T-30
38 X 2.5	FT1455-NT-38x5.0	FT1355-H-50	FT1355-A-45	FT1355-T-40
38 X 3	FT1455-NT-38x5.0	FT1355-H-50	FT1355-A-45	FT1355-T-40
38 X 4	FT1455-NT-38x5.0	FT1355-H-45	FT1355-A-40	FT1355-T-40
38 X 5	FT1455-NT-38x5.0	FT1355-H-40	FT1355-A-36	FT1355-T-36
42 X 2	FT1455-NT-42x3.0	FT1355-H-55	FT1355-A-50	FT1355-T-50
42 X 3	FT1455-NT-42x3.0	FT1355-H-50	FT1355-A-50	FT1355-T-45
50 X 3	FT1455-NT-50x5.0	FT1355-H-60	FT1355-A-55	FT1355-T-55
50 X 5	FT1455-NT-50x5.0	FT1355-H-55	FT1355-A-55	FT1355-T-50
50 X 6	FT1455-NT-50x5.0	FT1355-H-55	FT1355-A-50	FT1355-T-50

Recommended nozzles and cleaning projectiles for pipes (inch)

SCH 40	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #
1/4"	FT1455-N-H08	FT1355-H-14	FT1355-A-12
3/8"	FT1455-N-H13	FT1355-H-18	FT1355-A-16
1/2"	FT1455-N-H16	FT1355-H-20	FT1355-A-18
3/4"	FT1455-N-H19	FT1355-H-30	FT1355-A-26
1"	FT1455-N-H25	FT1355-H-36	FT1355-A-33
1-1/4"	FT1455-N-H32	FT1355-H-45	FT1355-A-40
1-1/2"	FT1455-N-H38	FT1355-H-55	FT1355-A-50
2"	FT1455-N-H50	FT1355-H-65	-
2-1/2"	FT1455-N-U55	FT1355-H-75	-
3"	FT1455-N-U55	FT1355-H-85	-
3-1/2"	FT1455-N-U55	FT1355-H-100	-
SCH 80	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #
1/4"	FT1455-N-H06	FT1355-H-12	FT1355-A-10
3/8"	FT1455-N-H10	FT1355-H-16	FT1355-A-14
1/2"	FT1455-N-H13	FT1355-H-20	FT1355-A-16 or FT1355-A-18
3/4"	FT1455-N-H19	FT1355-H-26	FT1355-A-22
1"	FT1455-N-H25	FT1355-H-36	FT1355-A-30
1-1/4"	FT1455-N-H32	FT1355-H-45	FT1355-A-40
1-1/2"	FT1455-N-H38	FT1355-H-50	FT1355-A-45
2"	FT1455-N-H38	FT1355-H-60	FT1355-A-55
2-1/2"	FT1455-N-H50	FT1355-H-70	-
3"	FT1455-N-U55	FT1355-H-85	-
SCH 160	Nozzle part #	Cleaning projectile part #	Abrasive projectile part #
1/2"	FT1455-N-H10	FT1355-H-16	FT1355-A-14
3/4"	FT1455-N-H16	FT1355-H-20	FT1355-A-18
1"	FT1455-N-H19	FT1355-H-30	FT1355-A-26
1-1/4"	FT1455-N-H25	FT1355-H-36	FT1355-A-33
1-1/2"	FT1455-N-H32	FT1355-H-45	FT1355-A-40
2"	FT1455-N-H38	FT1355-H-55	FT1355-A-45 or 1355-A-50
2-1/2"	FT1455-N-H50	FT1355-H-65	FT1355-A-60
3"	FT1455-N-U55	FT1355-H-75	
4"	FT1455-N-U55	FT1355-H-100	

FT1455 projectile cleaning system accessories overview



FT1455-NH25

Desktop nozzle holder

- The desktop nozzle holder is a great alternative to storing the nozzles in the carrying case
- Can be easily attached to the workbench and offers easy access during change overs and operation
- Accommodates all types of nozzles ranging from 1/4" to 2"



FT1455-QC

Quick release coupling

- Quick release coupling offers a quick disconnect and exchange of air supply to all 3 models of hand held projectile launchers
- Ideal for portable applications that require frequent disconnects



FT1455-CC

Carrying case

- Convenient carrying case to store and carry the hand held projectile launchers and relevant nozzles
- Works with all 3 models of hand held projectile launchers



E-HOAI- CC001-E

FT1455-L1 Hand Launcher
Operating Instructions



E-HOAI- CC003-E

FT1455-L3 Hand Launcher
Operating Instructions



E-HOAI- CC002-E

FT1455-L2 Hand Launcher
Operating Instructions



E-HOAI- CC004-E

FT1455-L4 Bench Mount
Launcher Operating
Instructions

FT1555 CapSeal system hardware

Note: For proper operation the following are required:

- 120V AC power for FT1555-HH unit with 1500 watt draw capability
- 230V 1-phase 50/60Hz AC power for FT1555-BM with 10 amp draw capability

FT1555-HH



Hand Held Electric Heat Gun with Carrying Case

- Variable temperature electronic heat gun with electronic thermocouple control
- Duratherm heating element ensure long life and even heat temperature range of 120°F (49°C) to 1100°F (593°C) and a built-in cool down switch
- Capable of sealing multiple hoses simultaneously
- Additional nozzle attachments included for other heat shrinking applications
- Operates on 120V AC power, draws 1500 watts, and can produce 17.6CFM.

FT1555-BM



Bench Mount Production Heat Shrink Machine

- Industrial production ready - brushless heat source with robust thermal insulation for 24/7 continuous operation capability
- Enables sealing of single or multiple hose or tube assemblies at one time
- White plunger provides solid surface for holding CapSeal capsules for uniform heat distribution during heat shrinking
- Dedicated air filter prevents airborne contamination during sealing
- Hot air blower timer allows for optimum cycle time depending on hose or tube ends being sealed
- Accepts CapSeal capsules from 3/4" (20mm) ID to 3" (80mm) ID and allows sealing and thread protection for most hose and tube ends from -4 (1/4") through -32 (2").
- Operates on 230V single-phase AC power at 50/60Hz and draws < 10 amps.
- Please note that a L6-15 NEMA twist loc receptacle (not supplied) is required for operation

FT1555 CapSeal system kits

Note: For proper operation the following are required:

- 120V AC power for FT1555-HH unit with 1500 watt draw capability
- 230V 1-phase 50/60Hz AC power for FT1555-BM with 10 amp draw capability

FT1555-HH-K1



Hand held electric heat gun basic kit (up to 1-1/2" hose ID and tube ends)

- Capability – For use with 1/8" through 1-1/2" hose ID or tube ends
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Mobile hose fabricators and mobile applications
- FT1555-HH-K1 kit includes
 - FT1555-HH Hand Held Electric Heat Gun with Carrying Case
 - FT1555-HH-ST Flex Vacuum Pump Stand for Hand Held Electric Heat Gun
 - FT1555-HH-D15 1-1/2" Diffuser for Hand Held Electric Heat Gun

FT1555-HH-K2



Hand Held Electric Heat Gun Starter Kit (up to 1-1/2" hose ID and tube ends)

- Capability – For use with 1/8" through 1-11/2" hose ID or tube ends
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Mobile hose fabricators and mobile applications
- FT1555-HH-K2 kit includes in addition to contents of FT1555-HH-K1 kit
 - FT1555-2540UP CapSeal Capsules 25mm x 40mm (ID x LENGTH)
 - FT1555-2840UP CapSeal Capsules 28mm x 40mm (ID x LENGTH)
 - FT1555-3140UP CapSeal Capsules 31mm x 40mm (ID x LENGTH)
 - FT1555-3440UP CapSeal Capsules 34mm x 40mm (ID x LENGTH)
 - FT1555-3840UP CapSeal Capsules 38mm x 40mm (ID x LENGTH)
 - FT1555-4650UP CapSeal Capsules 46mm x 50mm (ID x LENGTH)

FT1555 CapSeal system kits continued

Note: For proper operation the following are required:

- 120V AC power for FT1555-HH unit with 1500 watt draw capability
- 230V 1-phase 50/60Hz AC power for FT1555-BM with 10 amp draw capability

FT1555-HH-K3



Hand Held Electric Heat Gun Premium Starter Kit (up to 1-1/2" hose ID and tube ends)

- Capability – For use with 1/8" through 1-1/2" hose ID or tube ends
- Form factor – Hand-held, portable – ideal for harsh environments and heavy use
- Typical applications - Mobile hose fabricators and mobile applications
- FT1555-HH-K3 kit includes in addition to contents of FT1555-HH-K1 kit
 - FT1555-2023UP CapSeal Capsules 20mm x 23mm (ID x LENGTH)
 - FT1555-2540UP CapSeal Capsules 25mm x 40mm (ID x LENGTH)
 - FT1555-2840UP CapSeal Capsules 28mm x 40mm (ID x LENGTH)
 - FT1555-3140UP CapSeal Capsules 31mm x 40mm (ID x LENGTH)
 - FT1555-3440UP CapSeal Capsules 34mm x 40mm (ID x LENGTH)
 - FT1555-3840UP CapSeal Capsules 38mm x 40mm (ID x LENGTH)
 - FT1555-4650UP CapSeal Capsules 46mm x 50mm (ID x LENGTH)
 - FT1555-5260UP CapSeal Capsules 52mm x 60mm (ID x LENGTH)
 - FT1555-5860UP CapSeal Capsules 58mm x 60mm (ID x LENGTH)
 - FT1555-6760UP CapSeal Capsules 67mm x 60mm (ID x LENGTH)
 - FT1555-8060UP CapSeal Capsules 80mm x 60mm (ID x LENGTH)

FT1555 CapSeal capsules overview

FT1555 CapSeal capsules eliminate contamination by forming a clean and secure seal around hose and tube ends. FT1555 CapSeal system eliminates the need to stock multiple plastic threaded caps with just 16 CapSeal capsule sizes to meet all type of hose and tube end configurations. Additionally, the quick and easy pull-off

tab on each capsule eliminates the need for additional tools that could further contaminate the assemblies.

FT1555 CapSeal capsules are available in 16 sizes of varying diameter and length to match needs of all assemblies, and are available in both unit packaged and bulk packaged packaging.

Unit Packaged CapSeal Packages		Bulk Packaged CapSeal Packages		CapSeal Capsule Size	Hex Sizes Covered	Fitting		
CapSeal part #	Packaged Quantity	CapSeal part #	Packaged Quantity	(mm, ID X LENGTH)	(mm)	(Inches)	Straight	Elbow*
FT1555-2023UP	810	FT1555-2023BP	23,400	20 X 23	12mm to 18mm	.47" to .71"		X
FT1555-2030UP	810	FT1555-2030BP	23,400	20 X 30	12mm to 18mm	.47" to .71"	X	
FT1555-2224UP	810	FT1555-2224BP	22,500	22 X 24	16mm to 21mm	.63" to .63"		X
FT1555-2527UP	800	FT1555-2527BP	17,600	25 X 27	18mm to 23mm	.71 to .91"		X
FT1555-2540UP	800	FT1555-2540BP	17,600	25 X 40	18mm to 23mm	.71" to .91"	X	
FT1555-2840UP	720	FT1555-2840BP	15,200	28 X 40	22mm to 26mm	.87" to 1.02"	X	
FT1555-3133UP	640	FT1555-3133BP	12,240	31 X 33	24mm to 29mm	.94" to 1.14"		X
FT1555-3140UP	640	FT1555-3140BP	12,240	31 X 40	24mm to 29mm	.95" to 1.14"	X	
FT1555-3440UP	640	FT1555-3440BP	10,240	34 X 40	27mm to 32mm	1.07" to 1.26"	X	
FT1555-3840UP	560	FT1555-3840BP	7,800	38 X 40	30mm to 36mm	1.19" to 1.42"	X	X
FT1555-4345UP	480	FT1555-4345BP	6,240	43 X 45	32mm to 41mm	1.26" to 1.61"	X	X
FT1555-4650UP	480	FT1555-4650BP	5,760	46 X 50	34mm to 44mm	1.34" to 1.73"	X	X
FT1555-5260UP	400	FT1555-5260BP	4,400	52 X 60	41mm to 50mm	1.62" to 1.97"	X	X
FT1555-5860UP	400	FT1555-5860BP	3,600	58 X 60	49mm to 56mm	1.93" to 2.20"	X	X
FT1555-6760UP	320	FT1555-6760BP	2,560	67 X 60	55mm to 65mm	2.16" to 2.56"	X	X
FT1555-8060UP	320	FT1555-8060BP	1,736	80 X 60	64mm to 78mm	2.52" to 3.07"	X	X

†Shorter length CapSeal capsules are recommended for elbow and angled fittings (45° and 90°)

FT1555 CapSeal system accessories overview



FT1555-HH-D15

1-1/2" Diffuser for FT1555-HH hand held electric heat gun

- Even 360° heat diffusion to shrink CapSeal capsules
- Accommodates all CapSeal capsules up to 1-1/2"



FT1555-HH-ST

Flexible stand for FT1555-HH hand held electric heat gun

- Convenient carrying case to store and carry the hand held projectile launchers and relevant nozzles
- Works with all 3 models of hand held projectile launchers



FT1555-HH-D20

2" Diffuser for FT1555-HH hand held electric heat gun

- Even 360° heat diffusion to shrink CapSeal capsules
- Accommodates all CapSeal capsules up to 2"
- Stainless steel construction for superior service life



E-EQCR-TT006-E

FT1555-BM Bench Mount Capping Machine Operating Instructions

EC DECLARATION OF CONFORMITY FOR MACHINERY
Directive 73/23/EEC, 89/336/EEC

Manufacturer: Ultraclean Technologies Corp.
Address: 746 Shiloh Pike, Bridgeton NJ 08302, USA

Herewith declares that the Clean Seal System Heat Shrink Machine
Model: **UC-CSS-230**, production year 2010
is in conformity with the requirements of the Machinery Directive
73/23/EEC, 89/336/EEC

Bridgeton, NJ 08302 USA, October 2010

Mark of Conformity 

Bruce Riley, Owner

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Printed in USA
Document No. E-HOIN-TT032-E2
October 2015



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