

## Nozzles & Adapter Rings

A range of nozzles are available, allowing the Ultra Clean System to be used on different sizes and types of hose, tube and pipe, as well as coupling configurations. Special nozzles can be made to suit specific applications. Aluminum, hard coat anodized nozzles are available in hose style from -4 (1/4") through -32 (2").

### Hose Nozzles

The hose nozzle is inserted into the ID of the hose. Hose nozzles also work on pipe, heavy walled tubing and many coupling configurations. It is our most popular nozzle. Hose nozzles have the "UC-H" designation and are blue in color for easy identification.



### Tube Nozzles (Nominal Inch)

Nominal inch tube nozzles have a stop on the inside that forms an airtight seal when the tube is fully inserted into the nozzle. Nominal inch tube nozzles are white in color and designated with a "UC-T" in the part number. Some "UC-T" nozzles may also be designated for JIC use as reflected in the part number.



### Fitting Nozzles

FFORX: Special nozzle designed to accommodate -4 Flat Face O-Ring Style Fittings. These fittings may be referred to as Face Seal, Seal Lok or FFORX.

The white JIC nozzles are molded with a special 37° male flare at the tip to fit the female JIC fittings on hose and tube assemblies. JIC nozzles are marked with the "UC-J" designation, followed by appropriate size.



### Tube Nozzles (Metric)

Metric tube nozzles have a stop on the inside that forms an airtight seal when the tube is fully inserted into the nozzle. Metric tube nozzles are designed to match metric tubing, and are similarly based on outside diameter (OD) x wall thickness. Metric tube nozzle designations utilize the largest wall thickness for the given OD, but fit all smaller wall thicknesses as well. Metric tube nozzles are grey in color.



### Universal Nozzle

UC-U55/90: The Universal Nozzle is similar to our hose style nozzle. It has a size range 2-1/8" (55mm) to 3-1/2" (90mm). The Universal Nozzle can be cut off in 10mm increments to suit your application.



### Aluminum Locking Nozzle

UC-4.5LN: This nozzle is supplied with the UC-HL4.5 Launcher for 3.5" (90mm) to 4.5" (115mm) applications.



### Adapter & Locking Rings

- UC-AR1 fits the UC-HL2 Launcher and all nozzle types from 1/8" through 1-1/4".
- UC-AR2 fits the UC-HL3.5 Launcher and all nozzle types from 1/8" through 1-1/4".
- UC-AR3 fits the UC-HL3.5 Launcher and all nozzle types from 1-1/2" through 2".
- UC-LR fits the UC-HL3.5 & UC-HL4.5 Launchers and the AR2, AR3 & UC-U55/90 nozzles.



## Pipe Sizing Chart

SCH 40	NOZZLE	ULTRA CLEAN PROJECTILE	ABRASIVE PROJECTILE	GRINDING PROJECTILE
1/4"	UC-H08	UC14	UC-A12	UC-GR10
3/8"	UC-H13	UC18	UC-A16	UC-GR14 or UC-GR16
1/2"	UC-H16	UC20	UC-A18	UC-GR16 or UC-GR18
3/4"	UC-H19	UC30	UC-A26	UC-GR22 or UC-GR26
1"	UC-H25	UC36	UC-A33	UC-GR26 or UC-GR33
1-1/4"	UC-H32	UC45	UC-A40	UC-GR40
1-1/2"	UC-H38	UC55	UC-A50	UC-GR50
2"	UC-H50	UC65	UC-A55 or UC-A60	UC-GR55
2-1/2"	UC-U55/90	UC75	UC-A70	UC-GR65
3"	UC-U55/90	UC85	UC-A80	UC-GR80
3-1/2"	UC-U55/90	UC100	UC-A95	--
4"	UC-4.5LN	UC120	UC-A110	--
SCH 80	NOZZLE	ULTRA CLEAN PROJECTILE	ABRASIVE PROJECTILE	GRINDING PROJECTILE
1/4"	UC-H06	UC12	UC-A10	UC-GR07
3/8"	UC-H10	UC16	UC-A14	UC-GR10 or UC-GR12
1/2"	UC-H13	UC20	UC-A16 or UC-A18	UC-GR16
3/4"	UC-H19	UC26	UC-A22	UC-GR20
1"	UC-H25	UC36	UC-A30	UC-GR26
1-1/4"	UC-H32	UC45	UC-A40	UC-GR33
1-1/2"	UC-H38	UC50	UC-A45	UC-GR40
2"	UC-H38	UC60	UC-A55	UC-GR50
2-1/2"	UC-H50	UC70	UC-A65	UC-GR60
3"	UC-U55/90	UC85	UC-A80	UC-GR75
3-1/2"	UC-U55/90	UC110	UC-A110	--
4"	UC-4.5LN	UC115	UC-A110	--
SCH 160	NOZZLE	ULTRA CLEAN PROJECTILE	ABRASIVE PROJECTILE	GRINDING PROJECTILE
1/2"	UC-H10	UC16	UC-A14	UC-GR12
3/4"	UC-H16	UC20	UC-A18	UC-GR16 or UC-GR18
1"	UC-H19	UC30	UC-A26	UC-GR22
1-1/4"	UC-H25	UC36	UC-A33	UC-GR30
1-1/2"	UC-H32	UC45	UC-A40	UC-GR33 or UC-GR40
2"	UC-H38	UC55	UC-A45 or UC-A50	UC-GR40 or UC-GR45
2-1/2"	UC-H50	UC65	UC-A60	UC-GR55 or UC-GR60
3"	UC-U55/90	UC75	UC-A70	GR70
4"	UC-U55/90	UC100	UC-A100	--

Abrasive projectiles may be used when there is a build-up of contamination, surface rust or scale. For pipe applications where there is a greater build-up of contamination, surface rust or scale, use a grinding projectile. Pipe must be straight for this projectile. NOTE: To ensure cleanliness, an Ultra Clean projectile must be used after abrasive and grinding projectiles. Please call if you need help in sizing your application for the correct nozzles and projectiles.

## Recommended Sizing Chart Hose and Hose Assemblies

HOSE**			
HOSE ID		NOZZLE	ULTRA CLEAN PROJECTILE
NOM. IN.	DN MM		
3/16"	5	UC-H06	UC06
1/4"	6	UC-H06	UC10 OR UC12
5/16"	8	UC-H08	UC12 OR UC14
3/8"	10	UC-H10	UC14 OR UC16
1/2"	13	UC-H13	UC18 OR UC20
5/8"	16	UC-H16	UC22
3/4"	19	UC-H19	UC26
1"	25	UC-H25	UC33 OR UC36
1-1/4"	32	UC-H32	UC40 OR UC45
1-1/2"	38	UC-H38	UC50 OR UC55
2"	50	UC-H50	UC60 OR UC65
2-1/2"	63	UC-U55/90	UC75
3"	76	UC-U55/90	UC85
3-1/2"	89	UC-U55/90	UC100
4"	102	UC-4.5LN	UC120
4-1/2"	114	UC-4.5LN	UC130

ASSY W/FJIC		
FJIC SIZE	NOZZLE	ULTRA CLEAN PROJECTILE
DASH		
-4	UC-J06	UC06 OR UC07
-6	UC-J10	UC12
-8	UC-J13/T13	UC16
-10	UC-J16/T16	UC22
-12	UC-J19/T19	UC26
-16	UC-J25/T22	UC33
-20	UC-J32/T25	UC40
-24	UC-J38/T38	UC50
-32	UC-J50/T50	UC60

ASSY W/FFORX		
FFORX SIZE	NOZZLE	ULTRA CLEAN PROJECTILE
DASH		
-4	UC-4FFORX	UC06 OR UC07
-6	UC-H06	UC12
-8	UC-H10	UC16
-10	UC-H13	UC22
-12	UC-H16	UC26
-16	UC-H19	UC33
-20	UC-H25	UC40

ASSY W/CODE 61 & 62 FLANGES		
FLANGE SIZE	NOZZLE	ULTRA CLEAN PROJECTILE
DASH		
-8	UC-H10	UC16
-12	UC-H16	UC26
-16	UC-H19	UC33
-20	UC-H25	UC40
-24	UC-H32	UC50
-32	UC-H38	UC60

\*\*Use larger recommended Ultra Clean Projectiles when cutting hose with an abrasive wheel. The above sizes are recommendations. Due to different manufacturers, types of fittings, and the amount of contamination in the line, the size projectile may need to be adjusted.