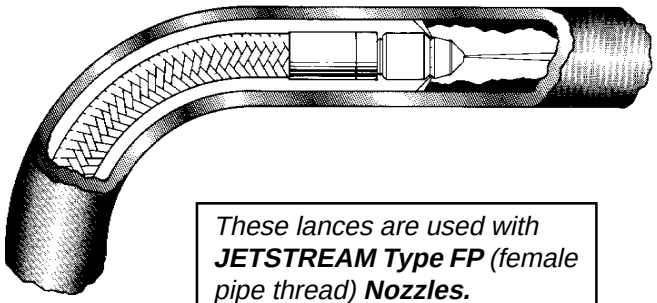
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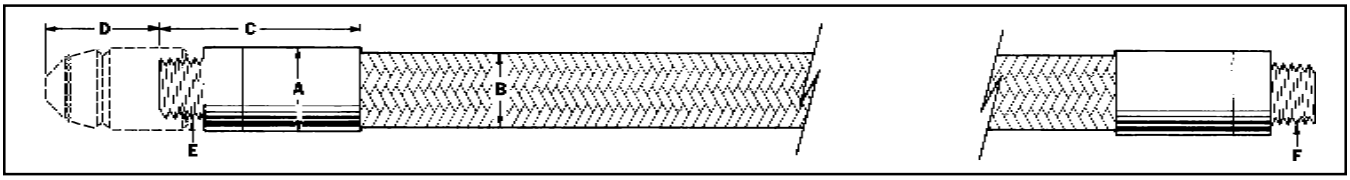
FLEXIBLE TUBE CLEANING LANCES

STAINLESS WIRE BRAIDED LANCES — STANDARD DIAMETERS
8,000 psi - 10,000 psi





*These lances are used with **JETSTREAM Type FP** (female pipe thread) **Nozzles.***



I. FEATURES:

Ideal high pressure lance when conditions require **small outside diameter** (yet large I.D.), **superior flexibility, high strength,** and **long service life.** Particularly suited for cleaning of heat exchanger, condenser, and boiler tubes where bends or turns are encountered. In addition, significant increases in productivity can be realized when flex lances are used in place of long rigid lances for the cleaning of straight tubes (one man can operate one or more lances while standing at the tube bundle.) Abrasion resistant stainless steel cover minimizes friction between lance and tube wall permitting smooth, bindless travel through tubes while compact **braid anchored** end fittings allow passage through tight bends and elbows.

50559 and **25568** lances are reinforced with *two* layers of stainless wire braid while the other lances use an additional *two* layers of stainless wire wrap. All assemblies are pressure tested following installation of fittings to insure safe performance in accordance with specifications shown below.

II. SPECIFICATIONS:

PART NO.	ASSY LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	NOZZLE END (E) & INLET (F) THREAD	OPERATING PRESSURE MAX (PSI)	MIN BEND RADIUS	WEIGHT PER FOOT
50559	25' / 50'	3/16"	.340"	.312"	1.12"	.60"	1/16" NPTM	8,000	2.0"	.11 lbs
25568	25' / 50'	1/4"	.500"	.410"	1.25"	.65"	1/8" NPTM	8,000	3.0"	.13 lbs
25570	25' / 50'	1/4"	.575"	.495"	1.40"	.65"	1/8" NPTM	10,000	3.0"	.24 lbs
25571	25' / 50'	5/16"	.721"	.615"	1.70"	.90"	1/4" NPTM	10,000	5.0"	.40 lbs

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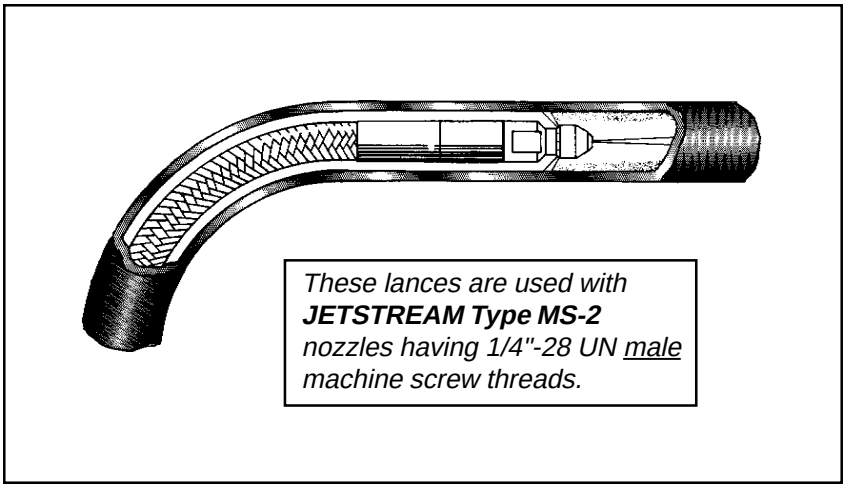
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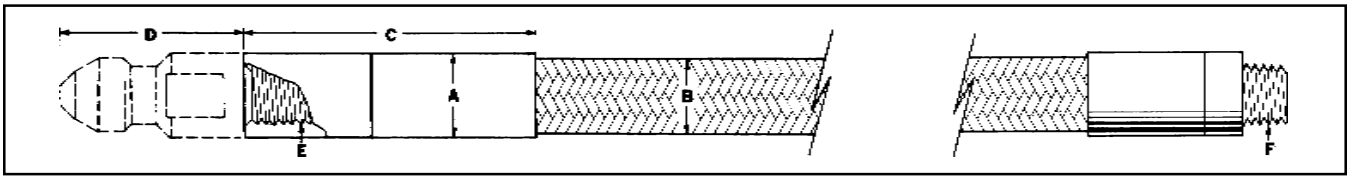
FLEXIBLE TUBE CLEANING LANCES

STAINLESS WIRE BRAIDED LANCES — SMALL DIAMETER
8,000 psi max





*These lances are used with **JETSTREAM Type MS-2** nozzles having 1/4"-28 UN male machine screw threads.*



I. FEATURES:

New design end fitting allows outside diameter of lance to be kept **very small** for clearance required when cleaning small diameter tubes yet large inside diameter is maintained for excellent flow characteristics. **This lance has the *smallest outside diameter* of any high pressure stainless wire reinforced flex lance in the industry.**

Additionally, internal 1/4"-28 UN nozzle end threads will permit the installation of a nozzle (style MS-2) that will not exceed the end fitting outside diameter. (See TUBE CLEANING NOZZLES TYPE MS-MALE MACHINE SCREW THREADS (UNC, UNF).

Lance's teflon core is reinforced with *two* layers of abrasion resistant stainless steel wire braid. End fittings are **braid anchored** for maximum dependability. All assemblies are pressure tested following installation of fittings to insure safe performance in accordance with specifications show below.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	NOZZLE END THREAD (E)	INLET THREAD (F)	OPERATING PRESSURE MAX. (PSI)	BEND RADIUS	WEIGHT PER FOOT
51162	25' / 50'	3/16"	.325"	.312"	1.40"	.65"	1/4"-28 UN	1/16" NPTM	8,000	2.0"	.11 lbs

Assembly length in addition to those shown on the above chart are available when required.

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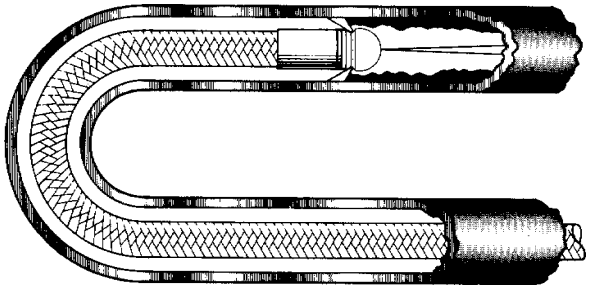
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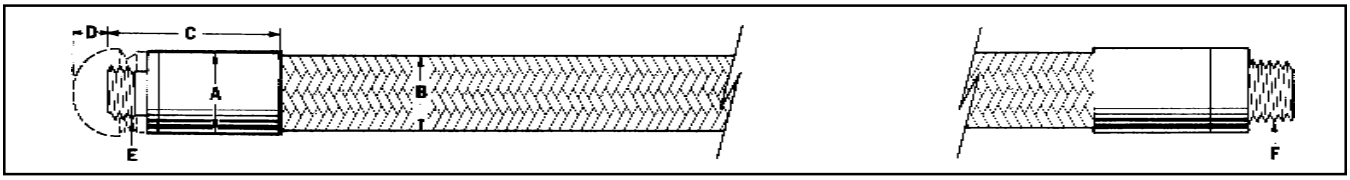
FLEXIBLE TUBE CLEANING LANCES

STAINLESS WIRE REINFORCED TEFLON — FOR TIGHT BENDS
8,000 - 10,000 psi





These lances require the use of ***JETSTREAM Type C*** *(compact)* ***Tube Cleaning Nozzles.***



I. FEATURES:

Extra short end fitting/nozzle combination permits the use of this lance in "U" tubes or other short radius situations where conventional fitting/nozzle combinations are too long to permit passage. At the same time, **high strength, superior flexibility, small outside diameter** (yet large I.D.) and **long service life** make these lances desirable in general use for the waterblast cleaning of small diameter tubes (heat exchangers, condensers, boilers). Abrasion resistant stainless steel cover minimizes friction between lance and tube wall permitting smooth, no bind travel through tubes.

8,000 psi lance is reinforced with *two* layers of stainless wire braid while 10,000 psi lance uses an additional *two* layers of stainless wire wrap. All assemblies are pressure tested following installation of fittings to insure safe performance in accordance with specifications shown below.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	NOZZLE END THREAD (E)	INLET THREAD (F)	OPERATING PRESSURE MAX. (PSI)	WEIGHT PER FOOT	MINIMUM BEND RADIUS
51498	25' / 50'	3/16"	.335"	.300"	.870" *	N/A	N/A	1/16" NPTM	8,000	.12 lbs	2"
50673	25' / 50'	1/4"	.500"	.410"	1.170"	.205"	5/16"-32UN	1/8" NPTM	8,000	.13 lbs	3"
50752	25' / 50'	1/4"	.565"	.475"	1.050"	.290"	5/16"-32UN	1/8" NPTM	10,000	.24 lbs	3"

* Includes nozzle projection (C + D).

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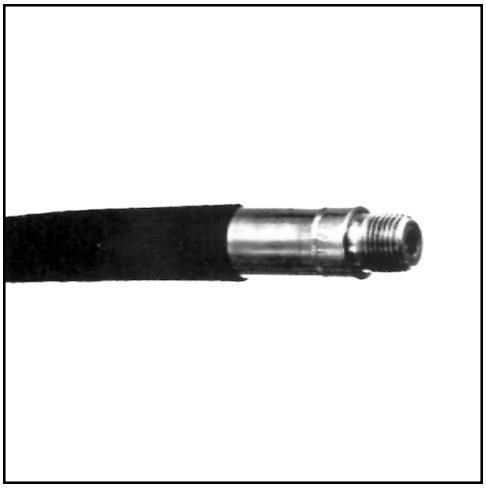
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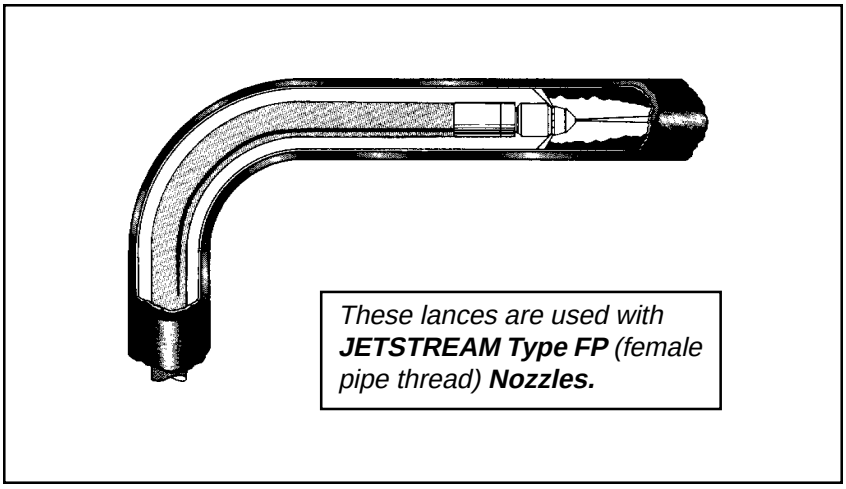
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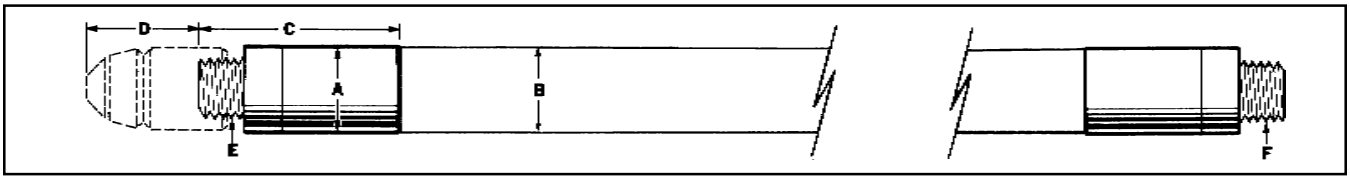
FLEXIBLE TUBE CLEANING LANCES

STAINLESS WIRE REINFORCED TEFLON — "TUBEGUARD®" COVER
8,000 - 10,000 psi





*These lances are used with **JETSTREAM Type FP** (female pipe thread) **Nozzles.***



I. FEATURES:

Extremely **abrasion resistant, durable** synthetic fabric is tightly braided onto the outside diameter of a stainless steel wire reinforced teflon flex lance. This synthetic overbraid protects any sensitive tube walls and lance itself from abrasion damage that may otherwise result using an uncovered lance. Covering extends service life of lance.

8,000 psi lance is reinforced with *two* layers of stainless wire braid while 10,000 psi lance uses an additional *two* layers of stainless wire wrap. Compact end fittings permit passage through tight bends and elbows. All assemblies are pressure tested following installation of fittings to insure safe performance in accordance with specifications shown below.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	NOZZLE END THREAD (E)	INLET THREAD (F)	OPERATING PRESSURE MAX. (PSI)	WEIGHT PER FOOT	MINIMUM BEND RADIUS
51007	25' / 50'	1/4"	.500"	.440"	1.45"	.65	1/8" NPTM	1/8" NPTF	8,000	.14 lbs	3"
51011	25' / 50'	1/4"	.575"	.510"	1.60"	.70	1/8" NPTM	1/8" NPTM	10,000	.25 lbs	3"

Covering can be applied to all other types of flex lances on special order.

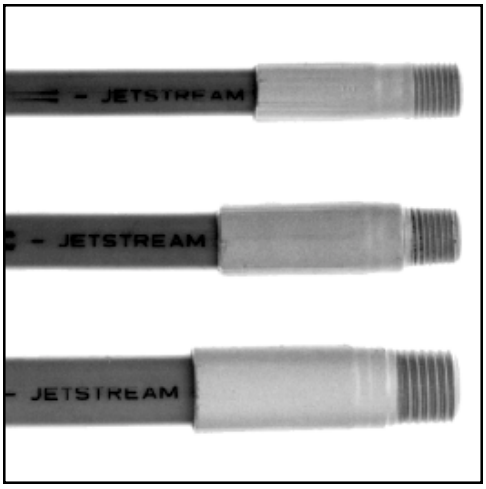
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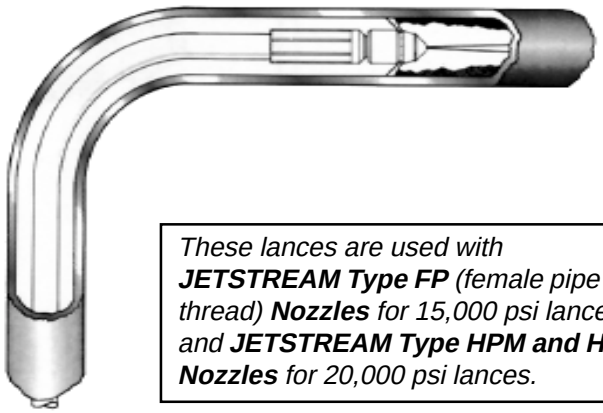
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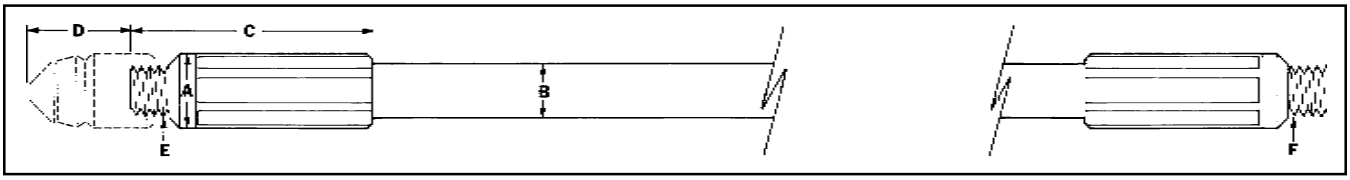
FLEXIBLE TUBE CLEANING LANCES

PLASTIC COATED LANCES
15,000 pis - 20,000 psi





*These lances are used with **JETSTREAM Type FP** (female pipe thread) **Nozzles** for 15,000 psi lances and **JETSTREAM Type HPM and HPF Nozzles** for 20,000 psi lances.*



I. FEATURES:

These **extra strong, economically priced** flex lances are used for the cleaning of small diameter tubes (heat exchangers, condensers, and boilers) when *moderate flexibility* is acceptable. Lances can be furnished to meet any length requirement, thus eliminating need for additional couplings.

Lance assembly consists of nylon core reinforced by either two or four high strength steel wire spirals. Hose is covered with chemical and abrasion resistant nylon. One piece designed end fittings have smallest possible outside diameter permitting passage of lance through common tube sizes. All assemblies are pressure tested following the installation of fittings to insure safe performance in accordance with specifications shown below.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	END (E)& INLET (F) THREADS	OPERATING PRESSURE MAX. (PSI)	WEIGHT PER FOOT	MIN BEND RADIUS
26104	25' / 50'	3/16"	.400"	.310"	1.33"	.60"	1/16" NPTM	15,000	.07 lbs	3.0"
26106	25' / 50'	7/32"	.480"	.370"	1.45"	.65"	1/8" NPTM	15,000	.08 lbs	3.8"
26108	25' / 50'	1/4"	.570"	.460"	1.62"	.90"	1/4" NPTM	15,000	.12 lbs	4.4"
51952	25' / 50'	3/16"	.500"	.410"	1.50"	.55"	1/4"-28 F	20,000	.16 lbs	5.0"
51953	25' / 50'	7/32"	.570"	.440"	1.70"	.60"	3/8"-24 F	20,000	.18 lbs	6.0"
51954	25' / 50'	1/4"	.620"	.500"	1.72"	.60"	3/8"-24 F	20,000	.20 lbs	7.0"

Assembly length in addition to those shown on the above chart are available when required.

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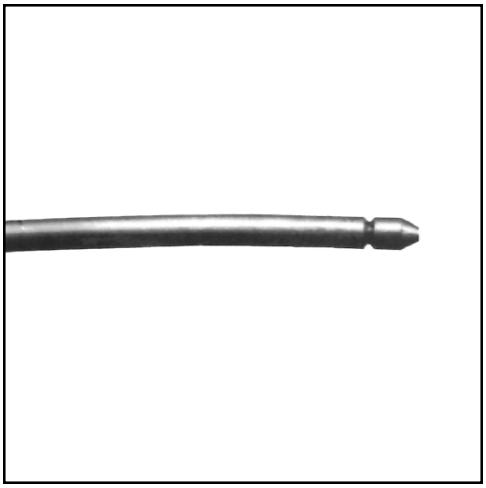
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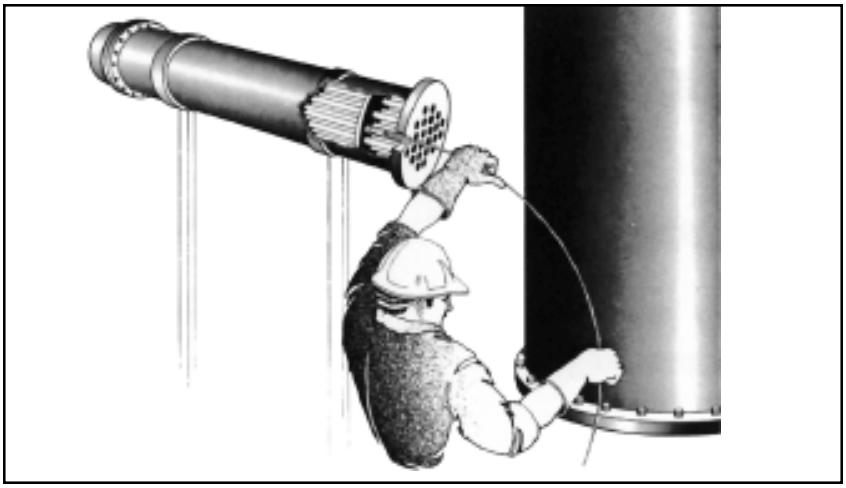
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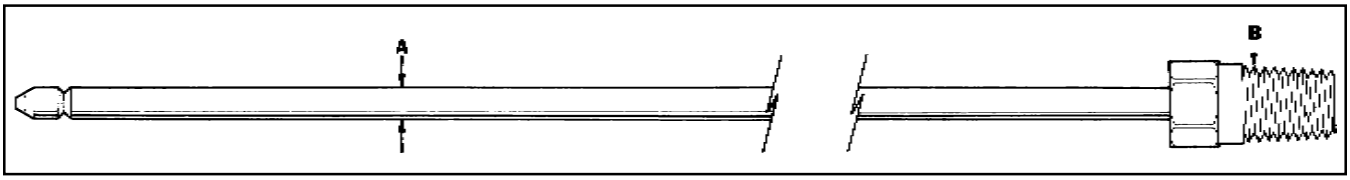
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TUBE CLEANING LANCES

EXTRA SMALL DIAMETER — STEELFLEX®
10,000 psi max







I. FEATURES:

Smallest outside diameters of any commercially available lances. **Spring temper** stainless steel construction allows use as either **flex** or **rigid** lance in very small tubes. Operator may "bow" lance into radius as shown for insertion into tube when job site space is restricted. Lance will return to straight form when bowing force is released due to spring temper. Nozzles and inlet fitting are integral with lance tube.

High strength special alloy stainless steel construction permits large I.D. relative to very small O.D. Complete assembly is pressure tested to insure safe operation in accordance with specifications show below.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	INSIDE DIA.	OUTSIDE DIA. (A)	INLET THREAD (B)	BEND RADIUS I *	BEND RADIUS II *	OPERATING PRESSURE MAX. (PSI)
51015	5'/10'/15'/20'/25'	.140"	.170"	1/8" NPTM	19"	10"	10,000
51020	5'/10'/15'/20'/25'	.110"	.140"	1/8" NPTM	16"	7"	10,000

Standard nozzle pattern: 1 front, 6 back. Special drill patterns available upon request. Maximum continuous length: 50'.

* Bend Radius I - Radius beyond which permanent set condition may occur.
** Bend Radius II - Radius beyond which kinking condition may occur.

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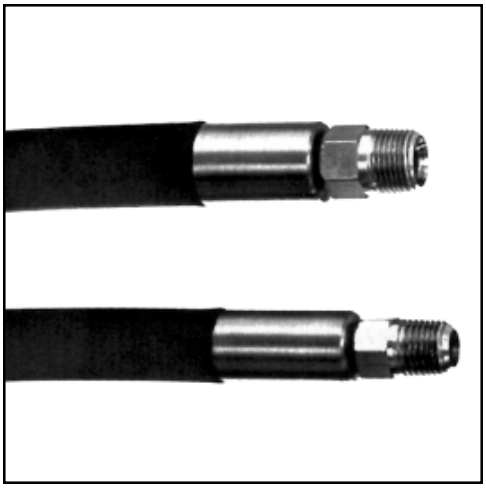
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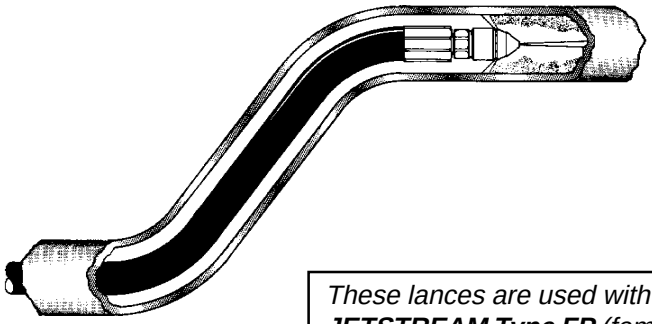
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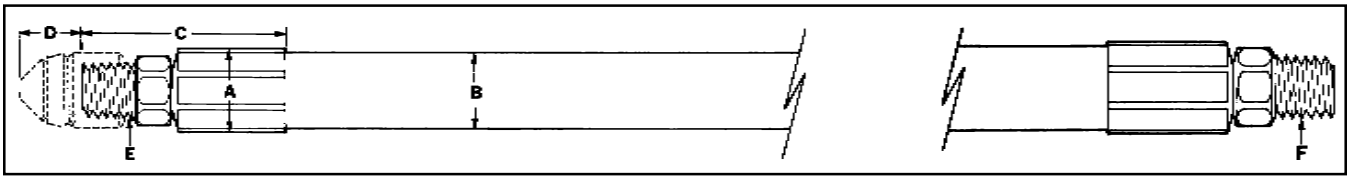
FLEXIBLE TUBE CLEANING LANCES

STEEL WIRE REINFORCED RUBBER
10,000 psi max





*These lances are used with **JETSTREAM Type FP** (female pipe thread) **Nozzles.***



I. FEATURES:

These **ECONOMICAL, HIGH PRESSURE, FLEXIBLE** lances are suitable for the cleaning of *larger* pipes and tubes (boilers, drains, sewers) when clearance will permit the use of a larger O.D. lance and where high pressure is required.

Lance assembly consists of abrasion and chemical resistant rubber cover over four layers of high strength steel wire reinforcement. Flush, short, and securely attached No-Blo™ end fittings permit the passage of the lance through most bends and elbows.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	NOZZLE END (E) & INLET (F) THREAD	OPERATING PRESSURE MAX. (PSI)	WEIGHT PER FOOT	MINIMUM BEND RADIUS
25914	25' / 50'	1/4"	.780"	.700"	2.55"	.90"	1/4" NPTM	10,000	.41 lbs	5"
25576	25' / 50'	3/8"	.950"	.842"	2.80"	.90"	3/8" NPTM	10,000	.53 lbs	6"
25513	25' / 50'	1/2"	1.130"	.964	3.77"	1.05"	1/2" NPTM	10,000	.68 lbs	8"

Assembly lengths in addition to those shown on the above chart are available when required. Maximum continuous length of any size is 350'.

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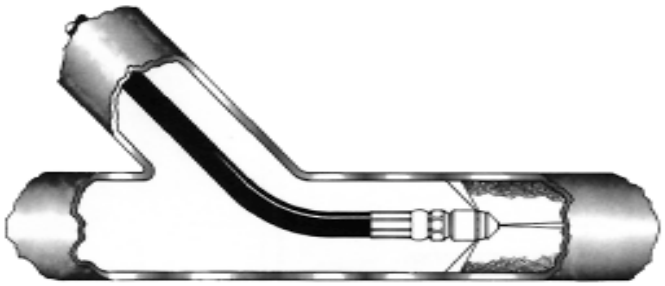
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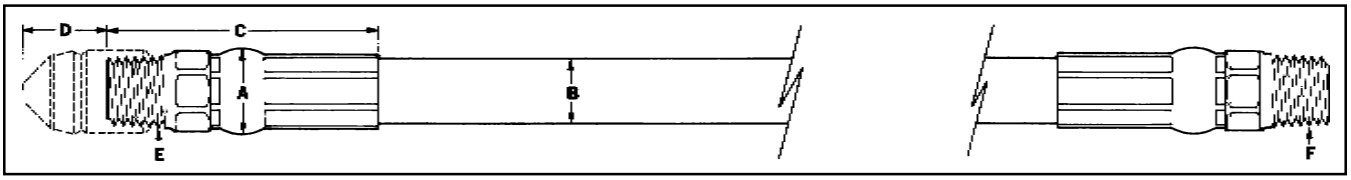
FLEXIBLE TUBE CLEANING LANCES

STEEL WIRE REINFORCED THERMOPLASTIC
6,400 psi max





*These lances are used with **JETSTREAM Type FP** (female pipe thread) **Nozzles.***



I. FEATURES:

These **durable, lightweight** (30% lighter than rubber hose), **flexible,** and **kink resistant** lances are particularly suitable for high volume, *medium pressure* applications such as drain or sewer cleaning. Extreme light weight allows ease of operation even when very long lengths are required. **Large inside diameter** permits high flow with minimum pressure loss. Lance assemblies are available in any length to 500 ft.

Lance is constructed of abrasion and chemical resistant thermoplastic cover over a single layer each of high strength synthetic (inner) and high strength steel (outer) braid. Short, yet securely attached end fittings permit dependable performance in even the tightest situations.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	NOMINAL I.D.	FITTING DIA. (A)	HOSE DIA. (B)	FITTING LENGTH (C)	NOZZLE PROJECTION (D)	NOZZLE END (E) & INLET (F) THREAD	OPERATING PRESSURE MAX. (PSI)	WEIGHT PER FOOT	MIN BEND RADIUS
50472	50'	3/8"	.810"	.640"	2.62"	.95"	3/8" NPTM	6,400	.19 lbs	2.25"
50476	50'	1/2"	1.000"	.800"	3.05"	1.10"	1/2" NPTM	5,600	.25 lbs	3.25"

Assembly lengths in addition to those shown on the above chart are available when required. Maximum continuous length of any size is 500'.

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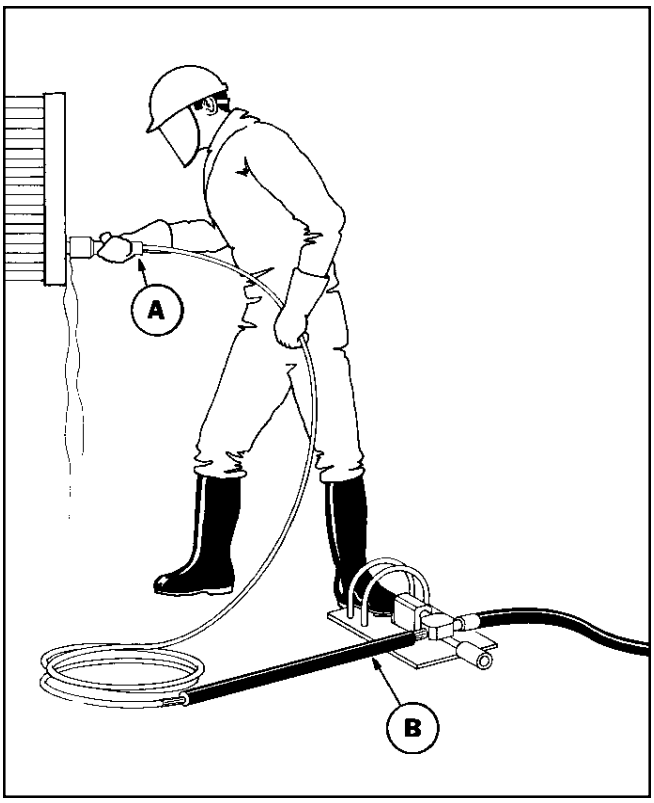
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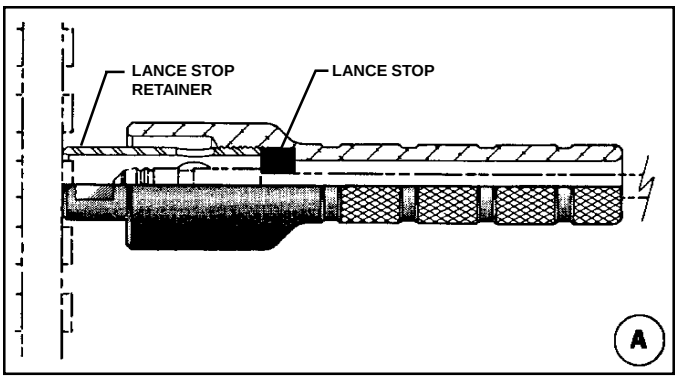
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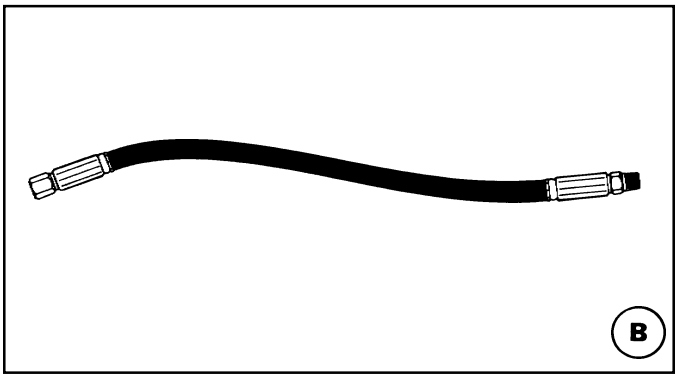
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FLEXIBLE TUBE CLEANING LANCES

ACCESSORIES







A. SAFETY GRIP

For flex lance applications, comfortable hand held SAFETY GRIP minimizes risk of operator injury should live nozzle exit tube unexpectedly.

Held firmly against face of tube bundle, SAFETY GRIP allows full retractions of live nozzle into baffled chamber where high pressure jets are diffused. Interchangeable *lance stop* permits passage of lance hose but not lance end fitting or nozzle.

Simple to install, SAFETY GRIP quickly adapts to various lance sizes by insertion of appropriate lance stop. Order interchangeable *stops* based on chart below.

Durable stainless steel/aluminum construction.

Part No.	Description
51024	Safety Grip (includes 51425)(order *stops* separately)
51036	Lance Stop (for lance nos.: 50559, 51045, 26104)
51038	Lance Stop (for lance nos.: 25568, 26106, 51952)
51044	Lance Stop (for lance nos.: 25570, 26108, 51953, 51954)
51779	Lance Stop (for lance no.: 25571, 53216)
51425	Lance Stop Retainer (1" Bell)
51427	Lance Stop Retainer (2" Bell)

B. STRAIN RELIEF WHIP

For flex lance applications. Extends flex lance service life. STRAIN RELIEF WHIP prevents costly flex lance failure caused by strain and kinking at the inlet end fitting.

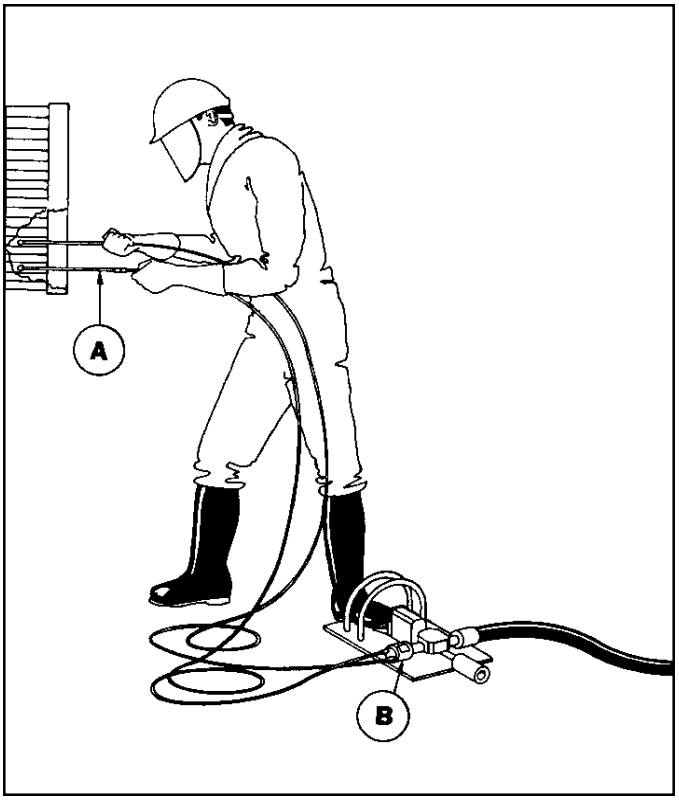
Part No.	Description
50138	Strain Relief Whip - 1/2" NPTM x 1/8" NPTF
50135	Strain Relief Whip - 1/2" NPTM x 1/4" NPTF
52519	Strain Relief Whip - 20K Male QD x 3/8"-28 Female for 20,000 psi lances. 20,000 psi Strain Relief Whip adaptors: **52521** 3/8"-24 Male x 1/4"-28 Male Rigid Lance (for lance 51952) **52088** 3/8"-24 Male x 3/8"-24 Male Rigid Lance (for lance 51953, 51954)

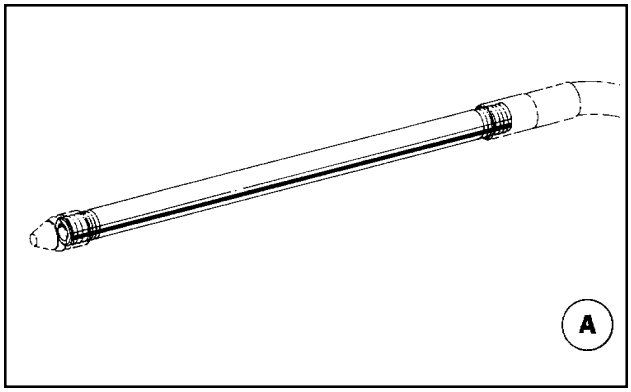
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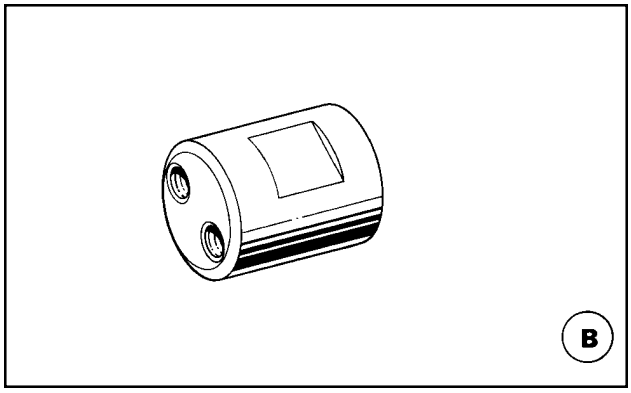
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FLEXIBLE TUBE CLEANING LANCES

ACCESSORIES







A. LANCE STINGERS 15,000 psi and 20,000 psi

For use with flexible lances when cleaning straight tubes, STINGERS afford the operator greater control for easier insertion of nozzle into tube and safer cleaning of tube entrances. Use of Stinger establishes a "safety zone" so operator knows when nozzle is about to exit tube. ALL Lance Stingers are made of *extra strong* **stainless steel** seamless pipe stock.

Part No.	Description
51397	STINGER, 1/16" NPT x 14", 15,000 psi
50588	STINGER, 1/8" NPT x 14", 15,000 psi
50590	STINGER, 1/4" NPT x 14", 15,000 psi
51100	STINGER, 3/8" NPT x 14", 15,000 psi
50739	STINGER, 1/2" NPT x 14", 15,000 psi
51919	STINGER, 1/4"-28 x 14", 20,000 psi
51921	STINGER, 3/8"-24 x 14", 20,000 psi

B. MULTIPLE LANCE MANIFOLD 15,000 psi

Use of a MULTIPLE LANCE MANIFOLD will increase operator productivity by allowing simultaneous operation of two lances from a single control gun or control valve.

Made of stainless steel, Manifold has single 1/2" female pipe thread (NPT) inlet and dual 1/16", 1/8" or 1/4" female pipe thread (NPT) lance outlets. Wrench flats are provided for installation or removal.

Part No.	Description
51401	MANIFOLD, 1/16" NPT outlet threads, 15,000 psi.
50585	MANIFOLD, 1/8" NPT outlet threads, 15,000 psi.
50999	MANIFOLD, 1/4" NPT outlet threads, 15,000 psi.

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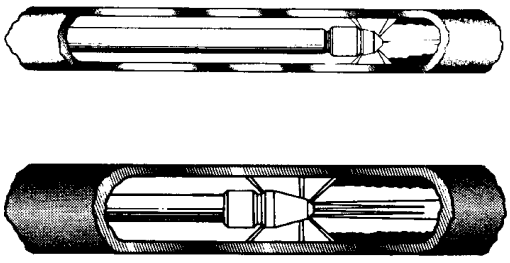
RIGID TUBE CLEANING LANCES

MALE PIPE THREAD (NPT) NOZZLE END
15,000 psi

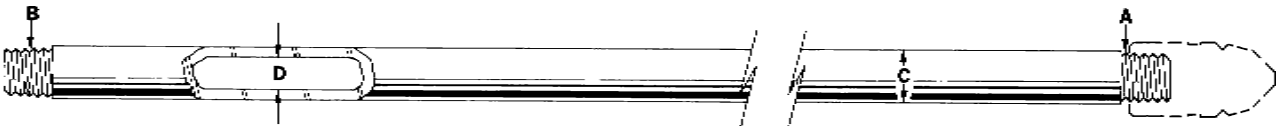
I. FEATURES:

For use with **Type FP** or **Type E** tube cleaning nozzles having female pipe threads (NPT). Lathe cut threads are **precision machined** to insure safe, leakproof nozzle installation. Lengths to 21 feet plus broad range of diameters allow for selection of proper lance to fit all common tube cleaning situations. Lances are made from extra strong stainless steel seamless pipe stock.

For nozzle selection refer to: **TYPE FP**, or **TYPE E**, **TUBE CLEANING NOZZLES.**



*These lances are used with **JETSTREAM Type FP** or **Type E** nozzles having female pipe threads.*



II. SPECIFICATIONS:

PART NO. *	NOZZLE END THREAD (A)	INLET END THREAD (B)	LANCE OUTSIDE DIAMETER (C)	LANCE INSIDE DIAMETER (D)	OPERATING PRESSURE MAX (psi)	WEIGHT PER FOOT
51081 - ( )	1/16" NPTM	1/16" NPTM	.312"	.183"	15,000	.17 lbs.
50592 - ( )	1/8" NPTM	1/8" NPTM	.406"	.215"	15,000	.31 lbs.
50594 - ( )	1/4" NPTM	1/4" NPTM	.540"	.302"	15,000	.54 lbs.
50596 - ( )	3/8" NPTM	3/8" NPTM	.675"	.423"	15,000	.74 lbs.
51082 - ( )	1/2" NPTM	1/2" NPTM	.840"	.500"	15,000	1.22 lbs.

* Order by specifying **PART NUMBER** and **LENGTH.** Maximum continuous length is 21 feet.

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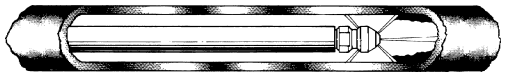
RIGID TUBE CLEANING LANCES

FEMALE PIPE THREAD (NPT) NOZZLE END
15,000 psi

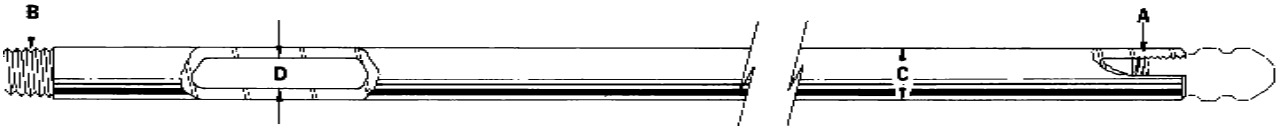
I. FEATURES:

For use with **Type MP** tube cleaning nozzles having male pipe threads (NPT). Lathe cut threads are **precision machined** to insure safe, leakproof nozzle installation. Lengths to 21 feet plus broad range of diameters allow for selection of proper lance to fit all common tube cleaning situations. Lances are made from extra strong stainless steel seamless pipe stock.

For nozzle selection refer to: **TUBE CLEANING NOZZLES, TYPE MP - MALE PIPE THREAD (NPT)**.



*These lances are used with **JETSTREAM Type MP** nozzles having male pipe threads (NPT).*



II. SPECIFICATIONS:

PART NO. *	NOZZLE END THREAD (A)	INLET END THREAD (B)	LANCE OUTSIDE DIAMETER (C)	LANCE INSIDE DIAMETER (D)	OPERATING PRESSURE MAX (psi)	WEIGHT PER FOOT
51066 - ( )	1/16" NPTF	1/8" NPTM	.406"	.215"	10,000	.31 lbs.
51067 - ( )	1/8" NPTF	1/4" NPTM	.540"	.302"	15,000	.54 lbs.
51068 - ( )	1/4" NPTF	3/8" NPTM	.675"	.423"	15,000	.74 lbs.
51069 - ( )	3/8" NPTF	1/2" NPTM	.840"	.500"	15,000	1.22 lbs.

* Order by specifying **PART NUMBER** and **LENGTH.** Maximum continuous length is 21 feet.

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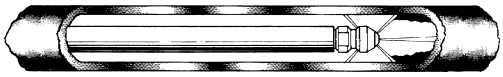
RIGID TUBE CLEANING LANCES

FEMALE MACHINE SCREW THREADS (UNC, UNF) NOZZLE END
10,000 psi

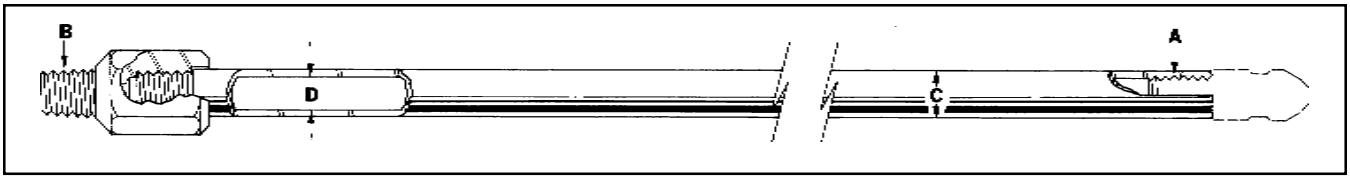
I. FEATURES:

For use with **Type MS** tube cleaning nozzles having male machine screw threads (UNC, UNF). Lathe cut threads are **precision machined** to insure safe, leakproof nozzle installation. Lengths to 21 feet plus broad range of diameters allow for selection of proper lance to fit all common tube cleaning situations.

For nozzle selection refer to: **TUBE CLEANING NOZZLES, TYPE MS MALE MACHINE SCREW THREADS (UNC, UNF)**.



*These lances are used with **JETSTREAM Type MS** nozzles having male machine screw threads (UNC, UNF).*



II. SPECIFICATIONS:

Lances are made of aircraft grade alloy steel. Material has flexibility for superior bend and kink resistance. ***Note: must be used with adapter on inlet end; order adapter separately by part number on chart below.***

PART NO. *	ADAPTER PART NO.	NOZZLE END THREAD (A)	ADAPTER THREAD (B)	LANCE OUTSIDE DIAMETER (C)	LANCE INSIDE DIAMETER (D)	OPERATING PRESSURE MAX (psi)	WEIGHT PER FOOT
51059 - ( )	51039	#12-28 UN	1/8" NPTM	.250"	.120"	10,000	.13 lbs.
51061 - ( )	51041	1/4"-28 UN	1/8" NPTM	.312"	.182"	10,000	.17 lbs.
51062 - ( )	51043	5/16"-24 UN	1/8" NPTM	.375"	.209"	10,000	.26 lbs.

* Order by specifying **PART NUMBER** and **LENGTH.** Maximum continuous length is 21 feet.

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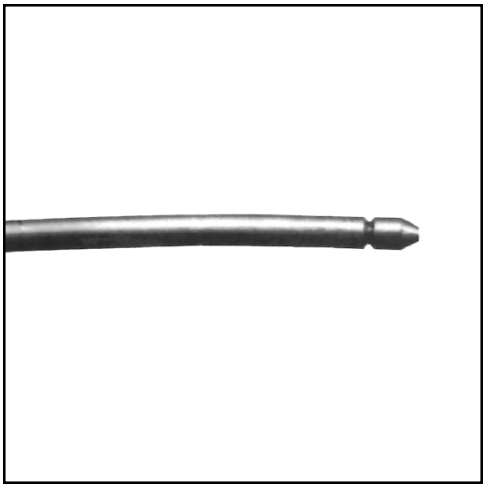
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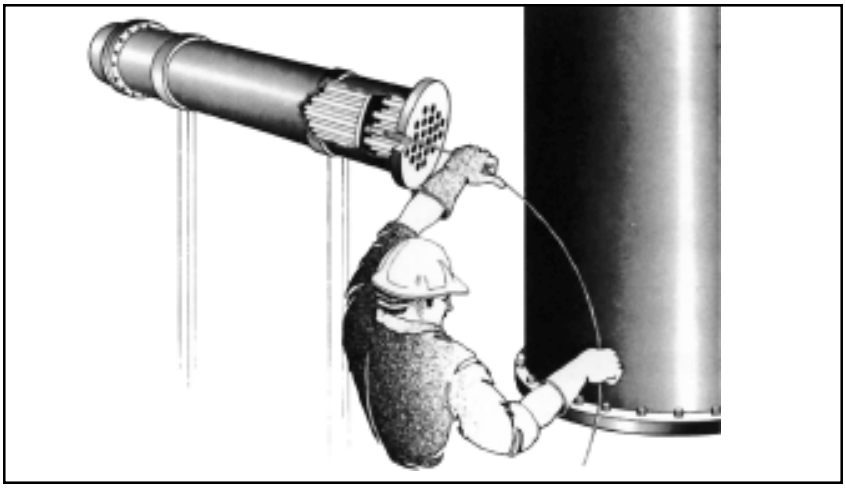
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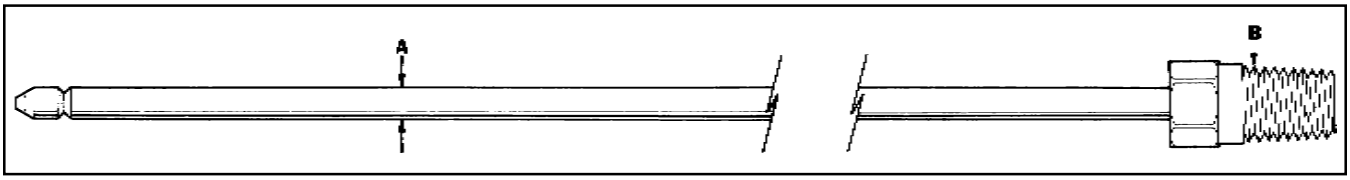
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TUBE CLEANING LANCES

EXTRA SMALL DIAMETER — STEELFLEX®
10,000 psi max







I. FEATURES:

Smallest outside diameters of any commercially available lances. **Spring temper** stainless steel construction allows use as either **flex** or **rigid** lance in very small tubes. Operator may "bow" lance into radius as shown for insertion into tube when job site space is restricted. Lance will return to straight form when bowing force is released due to spring temper. Nozzles and inlet fitting are integral with lance tube.

High strength special alloy stainless steel construction permits large I.D. relative to very small O.D. Complete assembly is pressure tested to insure safe operation in accordance with specifications show below.

II. SPECIFICATIONS:

PART NO.	ASSY. LENGTH	INSIDE DIA.	OUTSIDE DIA. (A)	INLET THREAD (B)	BEND RADIUS I *	BEND RADIUS II *	OPERATING PRESSURE MAX. (PSI)
51015	5'/10'/15'/20'/25'	.140"	.170"	1/8" NPTM	19"	10"	10,000
51020	5'/10'/15'/20'/25'	.110"	.140"	1/8" NPTM	16"	7"	10,000

Standard nozzle pattern: 1 front, 6 back. Special drill patterns available upon request. Maximum continuous length: 50'.

* Bend Radius I - Radius beyond which permanent set condition may occur.
** Bend Radius II - Radius beyond which kinking condition may occur.

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RIGID TUBE CLEANING LANCES

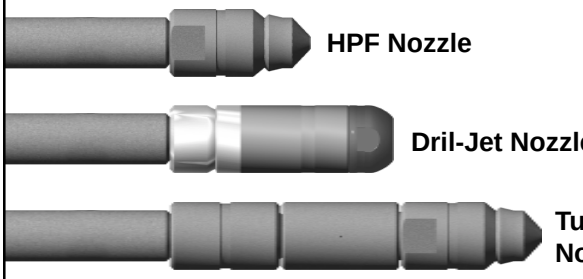
MALE 20,000 PSI RIGHT HAND CONE AND SEAT THREADS
20,000 psi

I. FEATURES:

For use with **Type HPF, Dril-Jet** or **Tube Spinning Nozzles** having female 20,000 psi right hand cone and seat threads. Lathe cut threads are **precision machined** to insure safe, leakproof nozzle installation. Lengths to 21 feet plus broad range of diameters allow for selection of proper lance to fit all common tube cleaning situations. Lances are made from extra strong stainless steel seamless pipe stock.

For nozzle selection refer to: **Type HPF, Dril-Jet** or **Tube Spinning Nozzles**.

Nozzles Available For 20,000 psi Rigid Lances

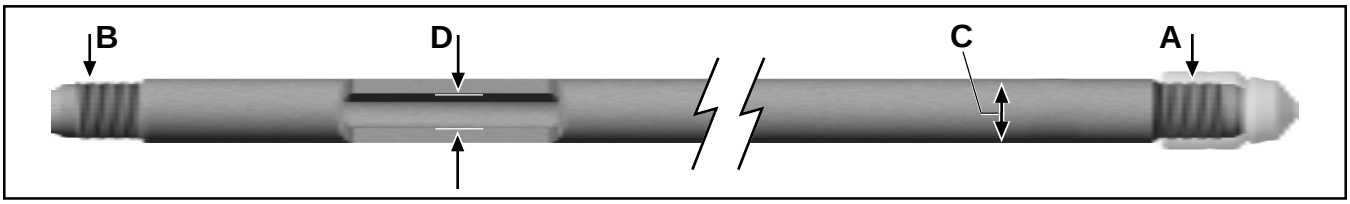


HPF Nozzle

Dril-Jet Nozzle

Tube Spinning Nozzle

*These lances are used with **JETSTREAM Type HPF, Dril-Jet** or **Tube Spinning Nozzles** having female 20,000 psi right hand cone and seat threads.*



II. SPECIFICATIONS:

PART NUMBER	NOZZLE END THREAD **A**	INLET END THREAD **B**	LANCE OUTSIDE DIAMETER **C**	LANCE INSIDE DIAMETER **D**	OPERATING PRESSURE MAX (psi)	WEIGHT PER FOOT
51919 - (*length*)*	.25" Rigid Lance	.25" Rigid Lance	.245"	.109"	20,000	.13 lbs / ft
51921 - (*length*)*	.38" Rigid Lance	.38" Rigid Lance	.368"	.203"	20,000	.25 lbs / ft
53063 - (*length*)*	.56" Rigid Lance	.56" Rigid Lance	.553"	.312"	20,000	.56 lbs / ft

* Order by specifying **PART NUMBER** and **LENGTH** (in feet)**.** Maximum continuous length is 21 feet.

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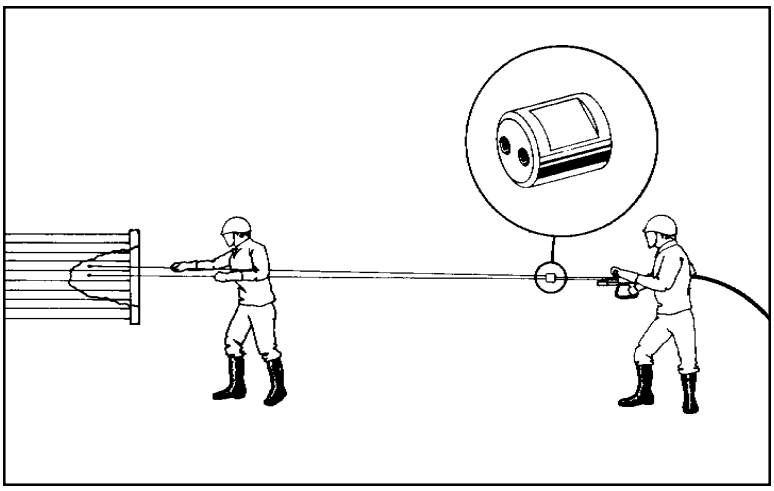
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RIGID TUBE CLEANING LANCES

ACCESSORIES

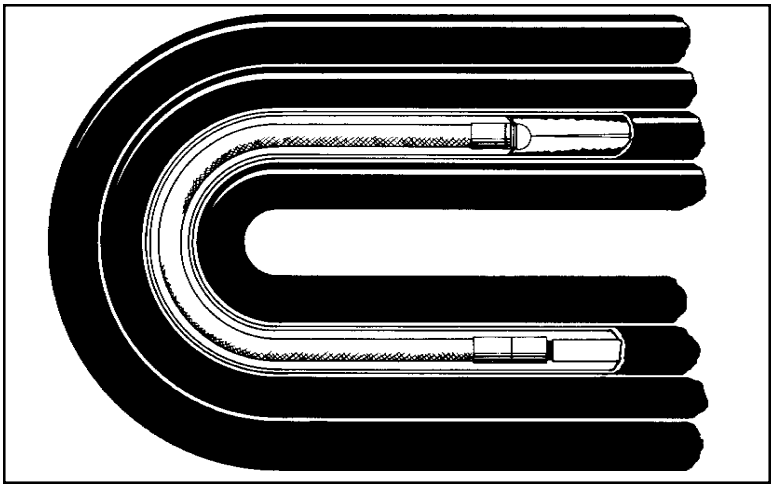


MULTIPLE LANCE MANIFOLD

Use of a MULTIPLE LANCE MANIFOLD will increase operator productivity by allowing simultaneous operation of two lances from a single control gun or control valve.

Made of stainless steel. Manifold has single 1/2" female pipe thread (NPT) inlet and dual 1/8" or 1/4" female pipe thread (NPT) lance outlets. Wrench flats are provided for installation or removal.

Part No.	Description
51401	Manifold, 1/16" NPT threads, 15,000 psi
50585	Manifold, 1/8" NPT threads, 15,000 psi
50999	Manifold, 1/4" NPT threads, 15,000 psi



FLEXIBLE WHIP

For cleaning radiused portions of "U-Tube" bundles, whips are used in combination with rigid lances having **male** nozzle end threads. Whips *require* the use of Type C nozzles. (See: **TUBE CLEANING NOZZLES, TYPE C-EXTRA COMPACT**, Page 3-17). Whips have wear resistant stainless wire braid/ teflon construction.

Part No.	Assy. Length	Nominal I.D.	Max. O.D.	Operating Pressure (psi)	Thread
51104	3'	1/4"	.500"	8,000	1/8" NPTF
51108	5'	1/4"	.500"	8,000	1/8" NPTF
51110	8'	1/4"	.500"	8,000	1/8" NPTF
51498-01 *	*	3/16"	.340"	8,000	1/16" NPTF
50673-01 *	*	1/4"	.500"	8,000	1/8" NPTF
50752-01 *	*	1/4"	.565"	10,000	1/8" NPTF

* specify length desired

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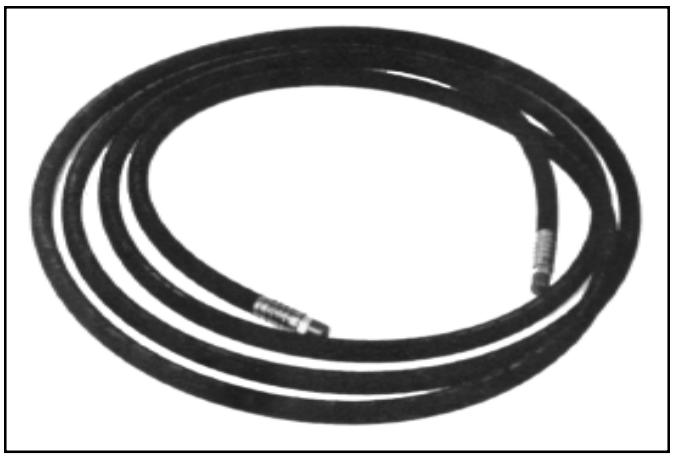
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WATERBLAST HOSE ASSEMBLY

STANDARD, 1/2" INSIDE DIAMETER

I. SPECIFICATIONS:

Assembly Length:	25' / 50'
Inside Diameter:	1/2"
Outside Diameter (Maximum):	1-1/8"
End Fitting Thread:	1/2" NPT male
Minimum Bend Radius:	8"
Weight Per Foot:	.68 lbs.
Operating Pressure (Maximum):	**10,000 psi**

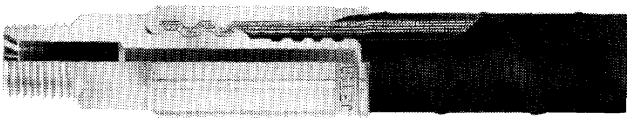


Order as Part No. 25513

II. SPECIFICATIONS:

Hose is constructed of a seamless synthetic rubber core reinforced with four high strength steel wire spirals. Long wearing rubber cover has high resistance to cuts and abrasion. Exclusive **NO-BLO®** two piece interlocking end fitting mean safe, dependable performance at 10,000 psi. This hose assembly has the **highest flexibility** and **lowest weight** in its pressure class.

III. END FITTING DESIGN:



As many hose end fittings are not designed to withstand the high abuse of waterblast service, many hose assemblies fail first at the end fitting at pressures below their rated minimum burst. This is significant as end fitting failure is a cuase of many waterblast related injuries, and a reason why otherwise good hoses must be re-ended or replaced.

Our **NO-BLO®** end fitting was designed for dependability in waterblast service. This two piece interlocking design crimps directly and securely to the hose's steel reinforcing wire. For additional protection, the **NO-BLO®** fitting features an integral pressure relief vent designed to prevent the buildup of high pressure in certain critical areas which could otherwise cause a fitting to blow off. **Our tests show the NO-BLO® fitting to be the safest of all for waterblast service.**

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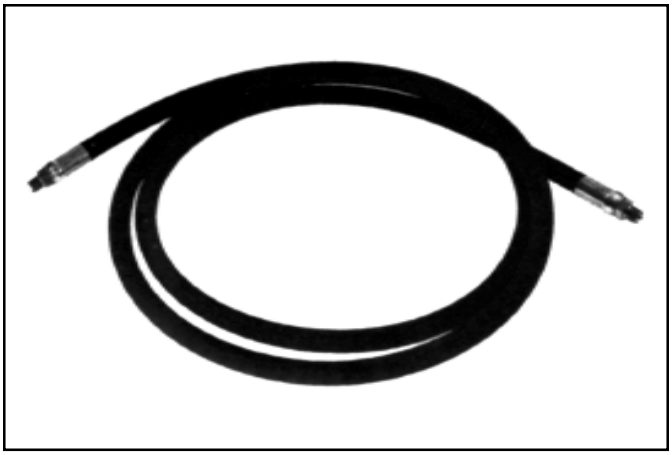
WATERBLAST HOSE ASSEMBLIES

1/4" THROUGH 3/4" INSIDE DIAMETERS
10,000 - 20,000 psi

FEATURES:

These high pressure hose assemblies are selected on the basis of **rugged construction, dependability,** and **safe performance** in accordance with their indicated operating pressure.

All hose assemblies listed here have numerous characteristics making them highly desirable for waterblast service. Such characteristics include excellent **NO-BLO®** end fitting retention, abrasion resistant covers, and superior flexibility.



SPECIFICATIONS:

PART NO.	INSIDE DIAMETER	ASSEMBLY LENGTHS	END FITTING O.D.	HOSE O.D.	WORKING PRESSURE MAX (psi)	END FITTING	WEIGHT PER FOOT
25914	1/4"	25' / 50'	0.800"	0.700"	10,000	1/4" NPT	0.41 lbs.
52089	1/4"	25' / 50'	0.975"	0.811"	15,000	1/4" NPT	0.61 lbs.
52047	1/4"	25' / 50'	1.490"	0.811"	20,000	20K QD	0.61 lbs.
25576	3/8"	25' / 50'	0.975"	0.840"	10,000	3/8" NPT	0.53 lbs.
52178	3/8"	25' / 50'	1.200"	0.944"	15,000	3/8" NPT	0.92 lbs.
52048	3/8"	25' / 50'	1.490"	0.944"	20,000	20K QD	0.92 lbs.
25513 *	1/2"	25' / 50'	1.150"	0.970"	10,000	1/2" NPT	0.68 lbs.
52241	1/2"	25' / 50'	1.275"	1.060"	15,000	1/2" NPT	0.91 lbs.
51118	3/4"	25' / 50'	1.500"	1.290"	10,000	3/4" NPT	1.30 lbs.

Assembly lengths in addition to those shown on the above chart are also available. Hoses of sizes or ratings other than those shown are available, though not normally stocked. Call for additional information.

• Refer to: **WATERBLAST HOSE ASSEMBLY-STANDARD, 1/2" INSIDE DIAMETER**, (page 6-1) for additional information on this product.

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WATERBLAST HOSE ASSEMBLY

WITH SAFETY STAINLESS OVERBRAID

I. SPECIFICATIONS:

Inside Diameter:	1/2"
Outside Diameter-Hose:	1-1/16"
Outside Diameter-Fitting:	1-1/4"
End Fitting Thread:	1/2" NPT male
Minimum Bend Radius:	9"
Weight Per Foot:	.86 lbs.
Operating Pressure (Maximum):	**10,000 psi**



Order 15' Assembly as Part No. 50952
Order 50' Assembly as Part No. 50951

II. FEATURES:

Securely fastened stainless steel overbraid provides **maximum protection** against dangerous hose failure for persons working or passing in the vicinity of pressurized hose. These hose assemblies were designed and developed in compliance with U.S. Navy safety specifications for high pressure waterblast use.

In addition, overbraid will protect rubber hose cover from damage which may otherwise expose steel reinforcing wires to conditions causing rust or corrosion.

These heavy duty hose assemblies are constructed of a seamless synthetic rubber inner core reinforced with six high strength steel wire spirals. Rubber covering over reinforcing spirals has high chemical and puncture resistance. 1/2" NPT male end fittings are crimped directly and securely to hose's reinforcing wire for dependable performance at pressures to 10,000psi. Securely fastened safety stainless steel wire braid covers entire hose asembly.

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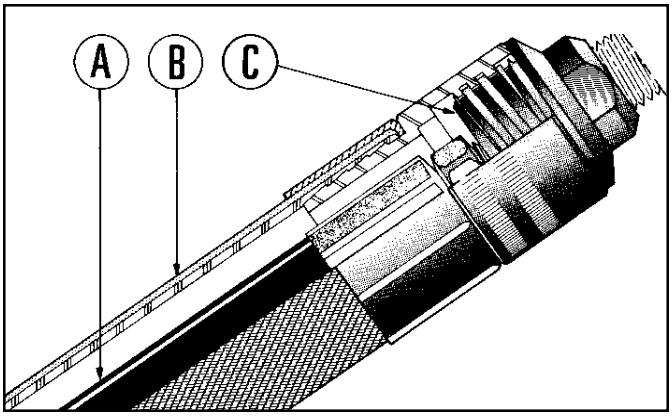
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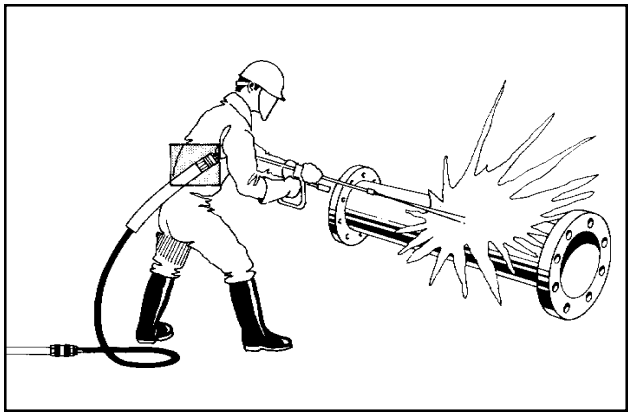
Jetstream®

PERFORMANCE ENGINEERED

SAFETY WHIP HOSES / SHROUDS

10,000 - 20,000 psi





A. SAFETY WHIP HOSES:

Increased operator protection, lower hose cost, and **higher productivity** are reasons for using SAFETY WHIP HOSES. Whips of smaller I.D.'s (thus higher burst pressure ratings) afford **extra operator protection** against dangerous hose failures. Smaller I.D. is permissible since pressure drop is minimal through short length. SAFETY WHIPS may be changed frequently for new hose protection at minimal cost (6' hose cost vs. 50' hose cost).

WHIP flexibility can be greater and weigh less than that of the hose used in the rest of the hose supply string, thereby reducing operator fatigue and increasing maneuverability and productivity.

PART NO.	ASSEMBLY LENGTH	INSIDE DIAMETER	OUTSIDE DIAMETER	FITTING SIZE	BEND RADIUS	WEIGHT PER FOOT	OPERATING PRESSUERE MAX. (psi)
25578	6'	1/4"	.811"	1/4" NPTM	6.0"	.61 lbs.	15,000 psi
25579	6'	3/8"	.840"	3/8" NPTM	6.0"	.53 lbs.	10,000 psi
25580	6'	3/8"	.944"	3/8"NPTM	7.0"	.92 lbs.	15,000 psi
51901 *	6'	3/8"	.944"	20K QD	7.0"	.92 lbs.	20,000 psi
25581	6'	1/2"	.970"	1/2" NPTM	8.0"	.68 lbs.	10,000 psi
52241-06	6'	1/2"	1.060"	1/2" NPTM	8.0"	.91 lbs.	15,000 psi

Assembly lengths in addition to those shown on the above chart are also available.
* Whip Hose with Safety Shroud.

B. SAFETY SHROUD:

Use of a SAFETY SHROUD assures operator protection in the event of hose or hose fitting failure at the control gun. SHROUD **completely** and **securely encloses** otherwise exposed hose part nearest the operator.

SHROUD is constructed of reinforced rubber core with strong, abrasion resistant nylon cover for maximum protection. SAFETY SHROUD is easily installed on any control gun by threading onto SAFETY SHROUD ADAPTER sold separately below.

No. 50796 Operating Pressure 10,000 psi, 3' long.
No. 50288 Operating Pressure 15,000 psi, 3' long.
No. 51901 * Operating Pressure 20,000 psi, 3' long.

* Whip Hose with Safety Shroud.

C. SAFETY SHROUD ADAPTER:

Required for attachment of SAFETY SHROUD shown above, stainless steel adapter has 1/2" female pipe threads (NPT) on gun end for simple attachment to virtually any control gun. Choice of 1/4", 3/8" or 1/2" female pipe threads (NPT) on hose end allows direct connection of SAFETY WHIP HOSES (above) or directly to supply hose if WHIP is not used.

No. 51109 Adapter, 1/2" NPT female x 1/4" NPT female, (for hoses having 1/4" NPT male fittings). 10,000 psi. Steel, Plated.
No. 51103 Adapter, 1/2" NPT female x 3/8" NPT female, (for hoses having 3/8" NPT male fittings). 10,000 psi. Steel, Plated.
No. 50109 Adapter, 1/2" NPT female x 1/2" NPT female, (for hoses having 1/2" NPT male fittings). 10,000 psi. Steel, Plated.
No. 50408 Adapter, 1/2" NPT female x 3/8" NPT female, (for hoses having 3/8" NPT male fittings). 15,000 psi. Steel, Plated.
No. 50290 Adapter, 1/2" NPT female x 1/2" NPT female, (for hoses having 1/2" NPT male fittings). 15,000 psi. Steel, Plated.

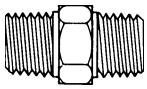
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HIGH PRESSURE FITTINGS — NPT

15,000 psi



HEX NIPPLES

No.	Size	Material
25452	1/8"	stainless
25455	1/4"	stainless
26152	3/8"	stainless
50496	1/2"	steel
50488	1/2"	stainless
26151	3/4"	stainless
51699	3/4"	steel
52674	1"	stainless



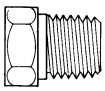
REDUCING BUSHINGS

No.	Size	Material
26158	1/8" x 1/16"	stainless
26073	1/4" x 1/8"	stainless
25901	3/8" x 1/8"	stainless
25903	3/8" x 1/4"	stainless
25902	1/2" x 1/8"	stainless
25904	1/2" x 1/4"	stainless
26062	1/2" x 3/8"	stainless
26074	3/4" x 1/8"	stainless
26069	3/4" x 1/4"	stainless
26063	3/4" x 3/8"	stainless
26065	3/4" x 1/2"	stainless
26124	1" x 1/2"	stainless
26157	1" x 3/4"	stainless



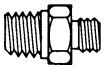
LONG NIPPLES

No.	Size	Material
51397	1/16" x 14"	stainless
25215	1/8" x 4"	stainless
25216	1/8" x 6"	stainless
50588	1/8" x 14"	stainless
51106	1/4" x 4"	stainless
51107	1/4" x 8"	stainless
50590	1/4" x 14"	stainless
51098	3/8" x 4"	stainless
51099	3/8" x 8"	stainless
50117	3/8" x 10"	stainless
51100	3/8" x 14"	stainless
51606	1/2" x 4"	stainless
50272	1/2" x 8"	stainless
50330	1/2" x 10"	stainless
50739	1/2" x 14"	stainless



HEX HEAD PLUGS

No.	Size	Material
25120	1/8"	steel
26149	1/4"	steel
26148	3/8"	steel
25174	1/2"	steel
26147	3/4"	steel



REDUCING NIPPLES

No.	Size	Material
26156	1/8" x 1/16"	stainless
26075	1/4" x 1/8"	stainless
25454	3/8" x 1/8"	stainless
26155	3/8" x 1/4"	stainless
26154	1/2" x 1/8"	stainless
26084	1/2" x 1/4"	stainless
26153	1/2" x 3/8"	stainless
51702	3/4" x 1/2"	stainless
53054	1" x 3/4"	stainless



SOCKET HEAD PLUGS

No.	Size	Material
25395	1/16"	steel
26170	1/8"	steel
25392	1/4"	steel
26077	3/8"	steel
26115	1/2"	steel
26164	3/4"	steel

I. USE AND FEATURES:

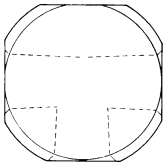
These high pressure fittings are manufactured for **rugged construction, dependability, and safe performance** at operating pressures to 15,000 psi.

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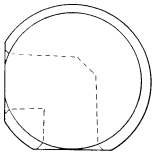
HIGH PRESSURE FITTINGS — NPT

15,000 psi



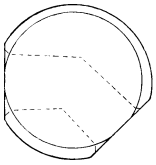
WAFERLINE TEE

No.	Size	Material
26171	1/8" x 1/8" x 1/8"	stainless
26166	1/4" x 1/4" x 1/4"	stainless
50354	3/8" x 3/8" x 3/8"	stainless
51001	1/2" x 1/2" x 1/2"	stainless
50385	3/4" x 3/4" x 3/4"	stainless
52673	1" x 1" x 1"	stainless



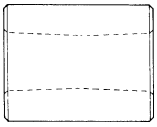
WAFERLINE ELBOW - 90°

No.	Size	Material
26173	1/8" x 1/8"	stainless
26162	1/4" x 1/4"	stainless
50298	3/8" x 3/8"	stainless
50300	1/2" x 1/2"	stainless
50336	3/4" x 3/4"	stainless
52672	1" x 1"	stainless



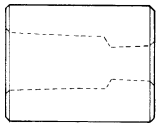
WAFERLINE ELBOW - 45°

No.	Size	Material
50296	3/8" x 3/8"	stainless
50824	1/2" x 1/2"	stainless
50302	3/4" x 3/4"	stainless



STRAIGHT COUPLINGS

No.	Size	O.D.	Material
50638*	1/16" X 1/16"	.40"	stainless
51191*	1/8" x 1/8"	.50"	stainless
50816*	1/4" x 1/4"	.75"	stainless
26057	3/8" x 3/8"	.94"	stainless
26056	1/2" x 1/2"	1.19"	stainless
26055	3/4" x 3/4"	1.50"	stainless
52676	1" x 1"	2.00"	stainless



REDUCING COUPLINGS

No.	Size	O.D.	Material
50933*	1/8" x 1/16"	.50"	stainless
50852*	1/4" x 1/8"	.75"	stainless
26064	3/8" x 1/8"	.94"	stainless
26061	3/8" x 1/4"	1.13"	stainless
50059	1/2" x 1/8"	1.19"	stainless
50342	1/2" x 1/4"	1.19"	stainless
26072	1/2" x 3/8"	1.19"	stainless
26059	3/4" x 3/8"	1.50"	stainless
26067	3/4" x 1/2"	1.50"	stainless

* Slimline Couplings (smaller OD)

I. USE AND FEATURES:

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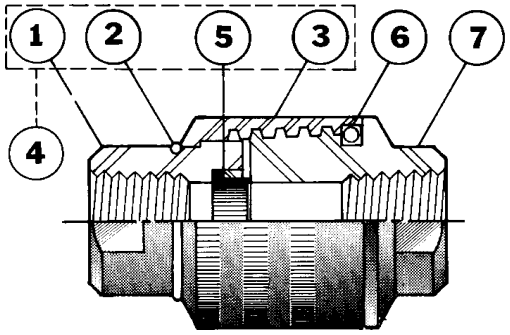
PERFORMANCE ENGINEERED

HIGH PRESSURE HOSE COUPLINGS

10,000 - 15,000 psi.

Screw Type Quick Disconnect Coupling, (American Aero style), 10,000 psi Rated, 1/2" NPT x 1/2" NPT female connections. Available in plated or stainless steel.

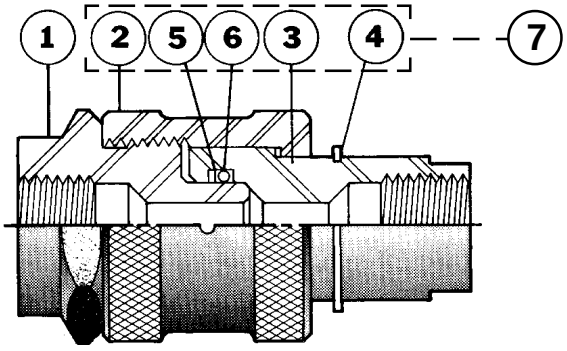
ITEM	QTY.	STAINLESS PART NO.	PLATED PART NO.	DESCRIPTION
1	1	50556	50712	Female Half
2	1	25690	25690	Ring, Retainer
3	1	50006	50713	Nut
4	1	50729	50756	Female Half Assembly
5	1	50698	50698	Seal, Molded
6	1	25657	25657	O-Ring
7	1	50009	50711	Male Half



Complete Coupling Assembly, Plated Steel, No. 50733.
Complete Coupling Assembly, Stainless Steel, No. 50001.

Screw Type Quick Disconnect Coupling, (Partek style), 10,000 psi Rated, 1/2" NPT x 1/2" NPT female connections. Stainless steel.

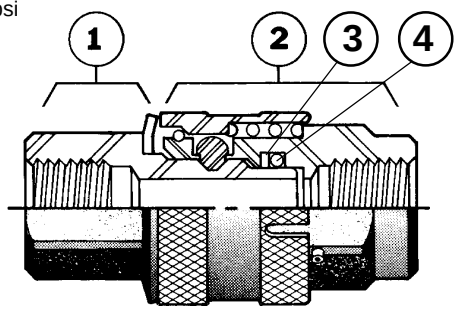
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	50990	Plug (Male Half)
2	1	50991	Nut
3	1	50992	Socket
4	1	25690	Ring, Retaining
5	1	25127	Ring, Backup
6	1	25126	O-Ring
7	1	52684	Female Half Assembly



Complete Coupling Assembly, Stainless Steel, No. 50989.

Lug Type Quick Disconnect Coupling, 1/2" NPT x 1/2" NPT female *or* 3/8" NPT x 3/8" NPT female connections. Spring loaded sleeve is retracted for disconnect. Safety "pin" prevents accidental disconnect. Available in Plated Steel and stainless steel. 10,000 psi Rated. 3/8" NPT halves can be interchanged with 1/2" NPT halves if desired.

ITEM	QTY.	3/8" PART NO.	1/2" PART NO.	DESCRIPTION
1	1	26181	26175	Male Half
2	1	26182	26176	Female Half Assembly
3	1	26657	26657	Ring, Backup
4	1	25212	25212	O-Ring



Complete Coupling Assembly, 1/2" NPT Plated Steel, No. 50557.
Complete Coupling Assembly, 1/2" NPT Stainless Steel, No. 90070.
Complete Coupling Assembly, 3/8" NPT Plated Steel, No. 50906.

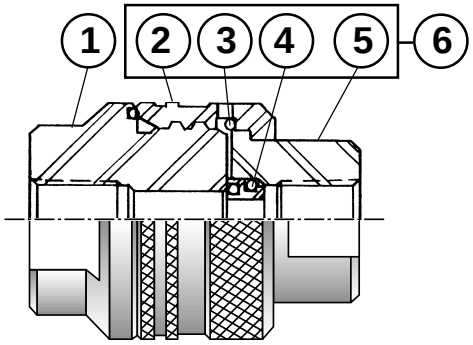
For additional Fitting/Coupling information refer to: **HIGH PRESSURE FITTINGS — NPT,**

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HIGH PRESSURE HOSE COUPLINGS

10,000 - 15,000 psi.



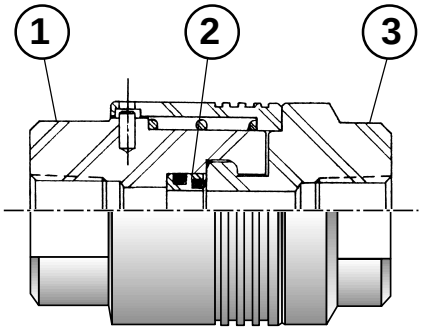
Twis Lok Type Quick Disconnect Coupling, 3/8" x 3/8", 1/2" x 1/2", 3/4" x 3/4" and 1" NPT x 1" NPT female connections. 3/8" NPT halves can be interchanged with 1/2" NPT halves if desired. Stainless steel. 15,000 psi rated.

All Twis Lok connections can be made tightened by hand without the need for any wrenches. Replacement seals come as 1-piece assembly.

Connections shown below:

ITEM	QTY.	3/8" NPT PART NO.	1/2" NPT PART NO.	3/4" NPT PART NO.	1" NPT PART NO.	DESCRIPTION
1	1	51550	51408	51334	52662	Male Half
2	1	51406	51406	51336	52658	Nut
3	1	26050	26050	25622	26971	Ring, Retaining
4	1	51628	51628	51624	52657	Seal Assembly
5	1	51548	51407	51338	52661	Female Half
6	1	51554	51670	51665	52677	Female Half Assembly

Complete Coupling Assembly, 3/8" Stainless Steel, No. 51552.
Complete Coupling Assembly, 1/2" Stainless Steel, No. 51402.
Complete Coupling Assembly, 3/4" Stainless Steel, No. 51405.
Complete Coupling Assembly, 1" Stainless Steel, No. 52663.



Side Latch Type Quick Disconnect Coupling, 3/8" x 3/8" and 1/2" NPT x 1/2" NPT Female connections. 3/8" NPT halves can be interchanged with 1/2" NPT halves if desired. 10,000 psi Rated. Stainless steel.

Safety "pin" prevents accidental disconnect. Spring loaded sleeve is retracted for disconnect. Halves slide to the side for easy disconnect. Replacement seals come as a 1-piece assembly.

ITEM	QTY.	3/8" PART NO.	1/2" PART NO.	DESCRIPTION
1	1	51391	51389	Female Half Assembly
2	1	51382	51382	Seal Assembly
3	1	51387	51394	Male Half

Complete Coupling Assembly, 3/8" Stainless Steel, No. 51403.
Complete Coupling Assembly, 1/2" Stainless Steel, No. 51400.

For additional Fitting/Coupling information refer to: **HIGH PRESSURE FITTINGS — NPT,**

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