



THE HEART OF WATERJET CUTTING



KMT WATERJET PARTS CATALOG



Genuine Parts
Your business is worth it.

FALL 2015



KMT Genuine Parts

Your business is worth it.

Over 40 years ago the very first commercial installation of a waterjet cutting system began operation using a KMT intensifier. Since then, KMT pumps with KMT Genuine Parts have served customers reliably across many industries, including yours.

KMT Genuine Parts are manufactured in the USA to the exact standards as the original parts found on new KMT pumps. Our expertise and operating experience extends from the original SL-I operating at 3,800 bar all the way to today's industry-leading KMT PRO pumps cutting at 6,200 bar. No other provider has this breadth of experience and you can rest assured that your KMT pump will operate at peak performance when you use KMT Genuine Parts.

Benefits of KMT Genuine Parts:

- **Robust quality control inspection process to ensure superior fit and durability**
- **Manufactured to precise specifications best suited for your KMT pump**
- **Improvements made to KMT pumps are incorporated into KMT Genuine Parts**
- **KMT Customer Service and Technical Support is available 24/7**

Remember to use KMT Genuine Parts to maintain your pump warranty and ensure that your investment pays off over the long-term. The use of imitation parts will void warranty coverage, compromises safety and may result in reduced component lifetime.

Decades of precision manufacturing and engineering experience, proprietary manufacturing processes and patented technology make KMT Genuine Parts an exceptional value - your business is worth it.



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KMT products are tested & meet ISO 9001 processes and procedures with specific requirements so that our products are designed to perfectly fit with minimal installation time and for maximize usage.



www.kmt-partsline.com

The **PARTSLINE Anywhere online spare parts catalogue** enables KMT customers to identify the original spare parts they need at any time and from anywhere in the world, thus simplifying the problem-free order process via our customer service.

For further details see **contact information on page 87** of this catalog or send us an e-mail at

order.spares@kmt-waterjet.com

For your convenience, we have labeled all items in this catalog according to the pressure range of their application. The following color code applies:

■ The product has been designed for use with our high performance **PRO product series** and is applicable at a pressure range of up to 6,200 bar (90,000 psi).

■ The product is applicable at a pressure range of up to 4,100 bar (60,000 psi).

All dimensions in this catalog are in inch unless specified otherwise. The decimal notation can be converted as follows:

0.25 = 1/4 inch

0.38 = 3/8 inch

0.56 = 9/16 inch

0.75 = 3/4 inch

Please note that all technical details shown in this catalog are subject to change and pictures are similar.



Topworks Replacement Parts



THE KMT TOPWORKS - THE SOURCE OF PRESSURE

**NO OTHER SYSTEM INCORPORATES THE FEATURES OF
KMT INTENSIFIERS TO DELIVER THE SIMPLEST, EASIEST-TO-
OPERATE, MOST RELIABLE SYSTEM.**



The KMT intensifier is the heart of your waterjet system and helps determine the quality and quantity of the products you make. The use of KMT Genuine Parts to maintain your intensifier helps maximize life and improves value.

KMT PRO® replacement parts are available exclusively from KMT and require precision manufacturing to ensure the best performance from your PRO® pump.

The KMT Intensifier Features:

- **Plunger** - KMT intensifiers use a longer pressurizing stroke than other manufacturers, thereby stroking less frequently for longer life.
- **Seals** - KMT's Hyperlife™ seals (U.S. Patent #6,769,695 and Sweden Patent #0203660-6) used in the Streamline topworks provides greater value than inferior, imitation parts.
- **Metal-to-Metal Seal Head** - Ensures positive sealing and the ability to re-use crucial components.

DESCRIPTION

PART No.

UHP Seal Assembly - 0.88 plunger units

20479499

6,200 bar
Used on all PRO units with a 60 or 125 horsepower rating



HP Seal Assembly - 1.13 plunger units

05149711

4,100 bar
Used on all SL-V and SL-VI units with a 75 to 200 horsepower rating



HP Seal Assembly - 1.13 plunger units, hybrid

20467135

4,100 bar
Used on all SL-V units with a 75 to 200 horsepower rating



HP Seal Assembly - 0.88 plunger units

20422243

3,800/4,100 bar
Used on all SL-V and SL-VI units with a 15 to 60 horsepower rating



HP Seal Assembly - 0.88 plunger units

05149703

3,800/4,100 bar
Used on SL-IV Plus flange units & SL-V HSEC units



HP Seal Assembly - 0.88 plunger units

05123385

3,800 bar
Used on all SL-IV units



CYLINDER SEAL ASSEMBLIES

DESCRIPTION

PART No.

HP Cylinder Seal Assembly

3,800 bar
Used on all SL-IV units

05027172



REPAIR KITS

Repair Kit - Hydraulic Piston PRO

6,200 bar. Used on all SL-VI PRO units
Kit includes retaining rings, bearings, o-rings, backup rings, seal assembly and check valves.

72168337



Repair Kit - Hydraulic Piston, 1.13 plunger units.

3,800/4,100 bar. Used on all SL-V and SL-VI units with a 75 to 200 horsepower rating.
Kit includes retaining rings, bearings, o-rings, backup rings, seal assembly and check valves.

80085079



Repair Kit - Hydraulic Piston, 0.88 plunger units.

3,800/4,100 bar. Used on all SL-V and SL-VI units with a 15 to 60 horsepower rating.
Kit includes retaining rings, bearings, o-rings, backup rings, seal assembly and check valves.

05115951



Repair Kit - HP Cylinder Assembly

Used on SL-IV, 3,800 bar. Kit includes seals, o-rings and backup rings to repair the HP cylinder seal and the sealing head seal.

05115977



* Available on request

PROXIMITY SWITCH KITS

DESCRIPTION

PART No.

Proximity Switch Kit SL-VI 3,800 - 4,100 bar Used on all SL-VI units with a 15 to 50 horsepower rating	72146433	
Proximity Switch Kit - E50 3,800 - 4,100 bar Used on all SL-IV, SL-V, Classic and OEM units with a 15 to 60 horsepower rating Replaces Part #05127584	20453934	
Proximity Switch Kit SL-VI Used on all SL-VI units with a 100-200 horsepower rating Used on all 6,200 bar SL-VI PRO units	72141569	
Proximity Switch Kit Used on all SL-IV and SL-V units with a 75-200 horsepower rating Used on 6,200 bar PRO-I and PRO-2 units	20453925	

DESCRIPTION

PART No.

Hydraulic Cylinder, 0.88 plunger HSEC units

05034764

3,800/4,100 bar
Used on all SL-IV, SL-V, Classic and OEM units with a 15 to 60 horsepower rating



Hydraulic Cylinder, 1.13 plunger HSEC units

05144514

3,800/4,100 bar
Used on all SL-V units with a 75 to 200 horsepower rating and PRO units with a horsepower rating of 60 or 125



Hydraulic Cylinder Head, 0.88 plunger, HSEC units

20414880

3,800 bar
Used on all Classic units with a 30 or 50 horsepower rating



Hydraulic Cylinder Head, 0.88 plunger, HSEC units

05034772

4,100 bar
Used on all SL-IV, SL-V and OEM units with a 15 to 60 horsepower rating



Hydraulic Cylinder Head, 1.13 plunger, HSEC units

20416445

4,100 bar
Used on all SL-V units with a 75 to 200 horsepower rating



DESCRIPTION

PART No.

- **Ceramic Plunger - 0.88 plunger units**
 6,200 bar
 Used on all SL-VI PRO units
- **Ceramic Plunger - 0.88 plunger units**
 4,100/6,200 bar
 Used on all SL-V and SL-VI units with a 15 to 60 horsepower rating and PRO units with a horsepower rating of 60 or 125
- **Ceramic Plunger - 1.13 plunger units**
 4,100 bar
 Used on all SL-V and SL-VI units with a 75 to 200 Horsepower rating
- **Carbide Plunger, 0.88 plunger units**
 3,800 bar
 Used on all Classic and NL-I units with a 30 to 50 horsepower rating.

72138164



05119151



05144506



05039771



LINERS

- **Liner - UHP Cylinder, 0.88 plunger units**
 6,200 bar
 Used on all PRO units with a 60 or 125 horsepower rating
- **Liner - HP Cylinder, 1.13 plunger units**
 4,100 bar
 Used on all SL-V and SL-VI units with a 75 to 200 Horsepower rating
- **Liner - HP Cylinder 0.88 plunger units**
 4,100 bar
- **Liner - HP Cylinder, 0.88 plunger units, Brass**
 4,100 bar

20474333



72110945



20497767



20491603



DESCRIPTION

PART No.



Hydraulic Piston Assembly

4,100/6,200 bar

Used on SL-IV, SL-V & OEM 7/8" plunger units with a 15 to 60 horsepower rating and PRO units with a horsepower rating of 60 or 125

05049994



5.25 x 5.50, 1.13 plunger units

4,100 bar

Used on all SL-V and SL-VI (PRO) units with a 75 to 200 Horsepower rating

05120092



3.75 x 4.0, 0.88 plunger units

3,800/4,100 bar

Used on all SL-IV, SL-V and SL-VI units with a 15 to 60 horsepower rating.

05034855



HYDRAULIC CARTRIDGE SEAL ASSEMBLIES



0.88 plunger units

4,100/6,200 bar

Used on all SL-IV, SL-V and SL-VI units with a 15 to 60 horsepower rating and all PRO units with a 60 or 125 Horsepower rating

05130091



1.13 plunger units

4,100 bar

Used on all SL-V and SL-VI units with a 75 to 200 Horsepower rating

05146584



0.88 plunger units

3,800 bar

Used on all Classic units with a 30 or 50 horsepower rating & NEOLINE 40 units

80086622



DESCRIPTION

PART No.



1.13 plunger units

3,800/4,100 bar
Used on all SL-V units with a 75 to 200 horsepower rating
Kit includes piston, retaining rings, bearings, o-rings, backup rings, seal assembly and check valves

05146576



0.88 plunger units

3,800/4,100 bar
Used on all SL-IV, SL-V, Classic and OEM units with a 15 to 60 horsepower rating
Kit includes piston, retaining rings, bearings, o-rings, backup rings, seal assembly and check valves

05132253



Seal Assembly - Hydraulic Piston, 0.88 plunger units

3,800/4,100 bar
Used on all SL-V, Classic and OEM units with a 15 to 60 horsepower rating

05117965



Bearing - Hydraulic Piston, 0.88 plunger units

3,800/4,100 bar
Used on all SL-V, Classic and OEM units with a 15 to 60 horsepower rating

05117940



DESCRIPTION

PART No.

PRO Cylinder - 0.88 plunger units

6,200 bar

Used on all PRO-I units with a 60 or 125 horsepower rating

Replaces Part #20473479 & #20431076

72121850



PRO-2 Cylinder - 0.88 plunger units

6,200 bar

Used on all PRO-2 and SL-VI PRO units with a 60 or 125 horsepower rating

72121858



Cylinder - 1.13 plunger HSEC-C

4,100 bar

Used on all SL-VI units with a 100 to 200 horsepower rating

72154588



Cylinder - 1.13 plunger HSEC

4,100 bar

Used on all SL-V units with a 75 to 200 horsepower rating

Replaces Part #20473479 & #20431076

72119536



Cylinder - 0.88 plunger HSEC-C

4,100 bar

Used on all SL-VI units with a 15 to 50 horsepower rating

72160831



Cylinder - 0.88 plunger HSEC

4,100 bar

Used on all SL-V and OEM units with a 15 to 60 horsepower rating

Replaces Part #20479503 & #05144647

72119544

0.88 plunger

3,800 bar

Used on SL-IV SSEC and NL-I units

05059712

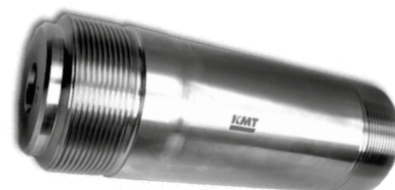
DESCRIPTION

PART No.

**0.88 plunger HSEC units**

3,800 bar

Used on all Classic units with a 30 or 50 horsepower rating

Replaces Part #20434777**72119529****0.88 plunger HSEC units**

3,500 bar

Used on all Classic version I units with a 50 horsepower rating

Replaces Part #20414862**72120023**

HIGH PRESSURE CYLINDER NUTS

**HP Cylinder Nut - HSEC (Hard Seal End Cap), 0.88 plunger**

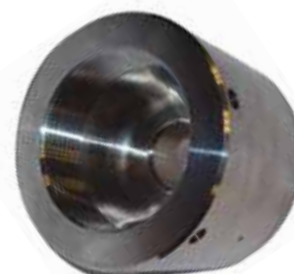
4,100 bar

Used on all SL-V and OEM units with a 15 to 60 horsepower rating

80073646**HP Cylinder Nut - SSEC (Soft Seal End Cap)**

3,800 bar

Used on all SL-IV units

05059688

BUSHING RETAINER FLANGES

DESCRIPTION

PART No.

- **0.88 plunger units**
3,800/4,100 bar
Used on all SL-IV, SL-V, Classic & OEM units
with a 15 to 60 horsepower rating

05007786



- **1.13 plunger units**
4,100 bar
Used on all SL-V units with a 75 to
200 Horsepower rating

05145099



RETAINING RINGS

- **1.011 x 0.030 x 0.118, Stainless Steel**
6,200 bar
Used on all 6,200 bar units

20492123



- **2.75, Stainless steel**
4,100 bar
Used on all 4,100 bar units

05034798



MISCELLANEOUS

- **Jackbolt - HSEC, 7/16-20 x 2.31**
Used on all SL-V, Classic and OEM HSEC units

80070352



- **HP Attenuator Assembly - 0.96L**
Used on all 4,100 bar units

20498314



* Available on request



Sealing Heads

KMT's patent-pending sealing head design offers reliable, repeatable use. The metal-on-metal seal ensures that your KMT intensifier reaches operating pressure safely, providing hundreds of hours of operation to support your cutting needs.

The use of KMT Genuine Parts to rebuild your sealing head results in maximum value and safe operation.

DESCRIPTION

PART No.

0.88 plunger

6,200 bar.

Used on all PRO-2 and SL-VI PRO units

20480087



0.88 plunger, 4 stud.

6,200 bar

Used on all PRO-I units

Uses o-ring 10146082 (p. 77)

20480113



1.13 plunger units HSEC-C

4,100 bar

Used on all SL-VI units with a 100 to 200 horsepower rating

72154603



1.13 plunger units HSEC

4,100 bar

Used on all SL-V units with a 75 to 200 horsepower rating

72110979



0.88 plunger units HSEC-C

3,800/4,100 bar

Used on all SL-VI units with a 15 to 50 horsepower rating

72142526



0.88 plunger units HSEC

3,800/4,100 bar

Used on all SL-V, Classic and OEM units with a 15 to 60 horsepower rating

20481005



DESCRIPTION

PART No.

■ **0.88 plunger units**
4,100 bar
Used on SL-IV Plus flange units

05144688



■ **0.88 plunger units**
3,800 bar
Used on SL-IV units

Uses o-ring 05049853 (p. 77)

05116769



■ **0.88 plunger units**
3,800 bar
Used on NL-I units

20417081



DESCRIPTION

PART No.

- 0.88 plunger units**

6,200 bar
Used on all sealing head assemblies for PRO-2 units

- 0.88 plunger units**

6,200 bar
Used on all sealing head assemblies for PRO-I units

- 1.13 plunger units**

4,100 bar
Used on all sealing head assemblies for SL-V units with a 75 to 200 horsepower rating

- 0.88 plunger units**

3,800/4,100 bar
Used on all sealing head assemblies for SL-V, Classic and OEM units with a 15 to 60 horsepower rating

- 0.88 plunger units**

4,100 bar
Used on SL-IV Plus flange units

- 1.13 plunger units**

3,800 bar
Used on SL-IV units with a 15 to 60 horsepower rating

- 0.88 plunger units**

3,800 bar
Used on NL-I units

72113373



20479524



72110961



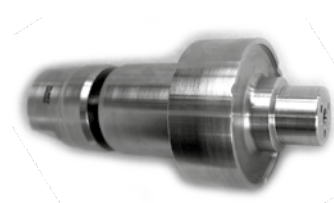
20481009



05144357



10106417



20417000



DESCRIPTION

PART No.

- HP Sealing Head**
3,800 bar.
Used on SL-IV units

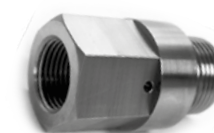
10110393



GLANDS

- UHP Sealing Head, 0.88 plunger units**
6,200 bar
Used on all sealing head assemblies for PRO units

20481660



- HP Sealing Head, 1.13 plunger units**
4,100 bar
Used on all sealing head assemblies for SL-V units with a 75 to 200 horsepower rating

05116595



- HP Sealing Head, 0.88 plunger units**
3,800/4,100 bar
Used on all sealing head assemblies for SL-IV, SL-V, Classic & OEM units with a 15 to 60 horsepower rating

05116777



SPACERS

- HP Sealing Head, 1.13 plunger units**
4,100 bar
Used on all SL-V units with a 75 to 200 horsepower rating

05144597



- HP Sealing Head**
4,100 bar
Used on SL-IV Plus units with a 15, 30, 50 or 60 horsepower rating

05144696



DESCRIPTION

PART No.

UHP Check Valve PRO-2 (Inlet/Discharge) Ball Style Inlet/discharge, 0.88 plunger units

72117819

6,200 bar
Used on all PRO-2 and SL-VI PRO units that utilize an inlet ball. Kit includes seat, discharge poppet, inlet ball, poppet pin, dowel pin & compression spring



UHP Check Valve PRO-2 (Discharge) Discharge Kit, 0.88 plunger units

72135447

6,200 bar
Used on sealing head assemblies for PRO-2 units. Kit includes seat, discharge poppet, poppet pin & compression spring



UHP Check Valve (Poppet Style) Inlet Inlet/discharge, 0.88 plunger units

20477505

6,200 bar
Used on all sealing head assemblies for PRO-I units that utilize an inlet poppet. Kit includes valve seat, inlet and discharge poppets, poppet pin and compression spring



HP Check Valve, Discharge, 1.13 plunger units

80084403*

4,100 bar
Used on all sealing head assemblies for SL-V units with a 75 to 200 horsepower rating. Kit includes valve seat, discharge poppet, poppet pin and compression spring



* Available on request

DESCRIPTION

PART No.

- HP Check Valve Discharge, 0.88 plunger units**
 3,800/4,100 bar
 Used on all SL-V, Classic and OEM units with a 15 to 60 horsepower rating. Kit includes valve seat, discharge poppet, poppet pin and compression spring

05133335



- HP Check Valve, Inlet/Discharge, 1.13 plunger units**
 4,100 bar
 Used on all SL-V and SL-VI units with a button style poppet with a 75 to 200 horsepower rating. Kit includes valve seat, inlet and discharge poppets, poppet pin and compression spring

72125203



- HP Check Valve, Inlet/Discharge, 1.13 plunger units**
 4,100 bar
 Used on all SL-V units with washer style inlet with a 75 to 200 horsepower rating. Kit includes valve seat, inlet and discharge poppets, poppet pin and compression spring

20427747*



- HP Check Valve, Inlet/Discharge, 0.88 plunger units**
 3,800/4,100 bar
 Used on all SL-V and SL-VI units with a button style poppet with a 15 to 60 horsepower rating. Kit includes valve seat, inlet and discharge poppets, poppet pin, compression spring & poppet retainer screw

20489495



- HP Check Valve, Inlet/Discharge**
 3,800/4,100 bar
 Used on SL-IV & SL-V units with a washer style inlet poppet. Kit includes valve seat, inlet & discharge poppets, poppet pin & compression springs

80074057







Cutting Heads

Precise alignment of cutting head components is what ensures maximum component life and greatest productivity. KMT cutting heads are precision manufactured and precision aligned in our laboratory using proprietary alignment techniques to ensure the very best cutting performance. KMT delivers the best value for your cutting needs on any waterjet system.

KMT Cutting Heads are:

- **The result of over 40 years of cutting experience - longer than any other manufacturer**
- **Rated best in the industry by independent university testing**
- **The best solution for your cutting needs - available in multiple orifice sizes**

For maximum performance and value on any KMT pump and those manufactured by other OEMs, install a KMT cutting head.

For complete Cutting Heads, contact your local KMT representative (see page 87 for details)

ACTIVE AUTOLINE PRO



ACTIVE IDE PRO



DESCRIPTION

PART No.

 IDE PRO Assembly

6,200 bar

Diamond Orifice

0.007" / 0.17 mm

20481407*

0.008" / 0.20 mm

20481408

0.009" / 0.23 mm

20481409

0.010" / 0.25 mm

20481410

0.011" / 0.28 mm

20481411

0.012" / 0.30 mm

20481412*

0.013" / 0.33 mm

20481413

0.014" / 0.35 mm

20481414

0.015" / 0.38 mm

20481415

0.016" / 0.40 mm

20481416

0.018" / 0.46 mm

20481418*
 AUTOLINE PRO Assembly

 6,200 bar, 0.75 UHP
 (Orifice Assembly & Focusing Tube Not
 Included)
20480707
 IDE II Assembly

4,100 bar

Diamond Orifice

0.007" / 0.17 mm

20477959007

0.008" / 0.20 mm

20477959008

0.009" / 0.23 mm

20477959009

0.010" / 0.25 mm

20477959010

0.011" / 0.28 mm

20477959011

0.012" / 0.30 mm

20477959012

0.013" / 0.33 mm

20477959013

0.014" / 0.35 mm

20477959014

0.016" / 0.40 mm

20477959016

0.018" / 0.46 mm

20477959018

DESCRIPTION

PART No.

IDE II Assembly

4,100 bar

Diamond Orifice & Short Stop Filter

0.007" / 0.17 mm

20477950007

0.008" / 0.20 mm

20477950008

0.009" / 0.23 mm

20477950009

0.010" / 0.25 mm

20477950010

0.011" / 0.28 mm

20477950011

0.012" / 0.30 mm

20477950012

0.013" / 0.33 mm

20477950013

0.014" / 0.35 mm

20477950014

0.016" / 0.40 mm

20477950016

0.018" / 0.46 mm

20477950018



AUTOLINE II Assembly

4,100 bar

0.030 wear insert, 0.38 HP

(Orifice Assembly & Focusing Tube Not Included)

20453949

0.043 wear insert, 0.38 HP

(Orifice Assembly & Focusing Tube Not Included)

20454108



AUTOLINE I Assembly

4,100 bar

0.030 wear insert, 0.38 HP

(Diamond & Focusing Tube Not Included)

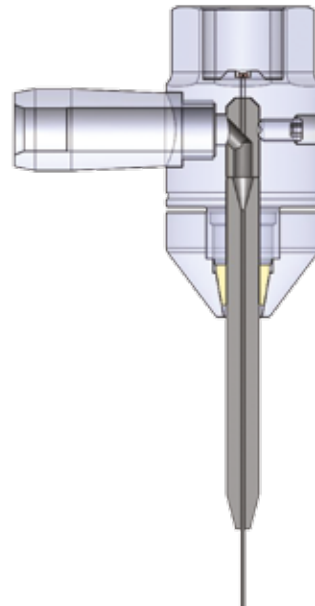
05078530



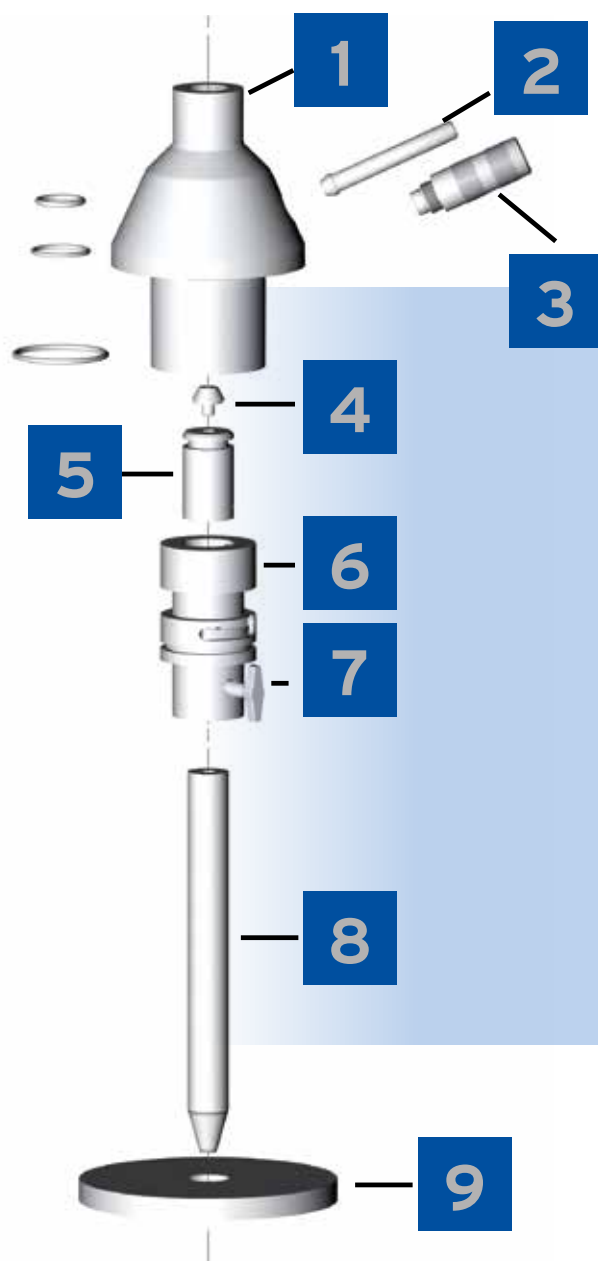
Cutting Head Replacement Parts



KMT's AUTOLINE & IDE cutting heads include patented designs, engineered and manufactured to deliver the best cutting performance in the industry. Ensure you cut with the greatest value & speed by using KMT Genuine Parts.



AUTOLINE CUTTING HEAD ASSEMBLY COMPONENTS



AUTOLINE II - Components

- 1 Cap
- 2 Abrasive Feed Liner
- 3 Handle
- 4 Diamond Orifice
- 5 LONGLIFE Mixing Chamber
- 6 Nozzle Body
- 7 Wing Screw Focusing Tube
- 8 LONGLIFE Focusing Tube
- 9 Guard

DESCRIPTION

PART No.

AUTOLINE PRO

6,200 bar
0.75 UHP

For o-rings see page 73

20480732



AUTOLINE II

4,100 bar
0.38 UHP

For o-rings see page 73

20453952



AUTOLINE I

4,100 bar
0.38 UHP

For o-rings see page 73

05076971



Body

AUTOLINE PRO

6,200 bar
For o-rings see page 73

20480715



AUTOLINE II

4,100 bar
For o-rings see page 73

20453958



AUTOLINE I

4,100 bar
For o-rings see page 73

05073820



DESCRIPTION

PART No.

	AUTOLINE PRO 6,200 bar	20458242*
	AUTOLINE II 4,100 bar 0.030, 25° Inlet (for o-rings see page 73)	20453064
	0.043, 25° Inlet	20453082*
	0.054, 25° Inlet	20454339*
	AUTOLINE I 4,100 bar 0.030, 45° Inlet, Tungsten Carbide	05076955
	0.043, 45° Inlet, Tungsten Carbide	05135827*
	0.052, 45° Inlet, Tungsten Carbide	20442434*



SPARE PARTS KITS

	AUTOLINE PRO 6,200 bar Kit includes the setscrew and o-rings to service any AUTOLINE PRO assembly	20479589
	AUTOLINE II 4,100 bar Kit includes the setscrew and o-rings to service any AUTOLINE II assembly	20454129
	AUTOLINE I 4,100 bar Kit includes the setscrew and o-rings to service any AUTOLINE I assembly	05077367



* Available on request

ABRASIVE FEED TUBE ADAPTERS

DESCRIPTION

PART No.

 **AUTOLINE PRO & AUTOLINE II**
Stainless Steel

20453973



 **AUTOLINE I**
Stainless Steel

05076989



ABRASIVE FEED TUBE ASSEMBLY

 **AUTOLINE PRO & AUTOLINE II**

20453964



KNOB RETAINER

 **AUTOLINE PRO & AUTOLINE II**
Stainless Steel, T-Handle

20453976



 **AUTOLINE I**
Stainless Steel

05078712



ABRASIVE GUARD

 **AUTOLINE PRO, AUTOLINE II & I**

05087168



IDE RETAINING NUT

0.25 = 1/4 inch 0.56 = 9/16 inch
0.38 = 3/8 inch 0.75 = 3/4 inch

DESCRIPTION

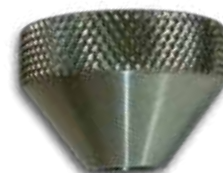
PART No.



0.38, Stainless Steel

Used with IDE PRO and IDE II cutting heads

20454342



FOCUSING TUBE RETAINING COLLET



0.373 ID, Brass

Retaining ring for IDE PRO and IDE II cutting heads

20454345



SHORT STOP ADAPTER ASSEMBLY

4,100 bar. Required when incorporating an IDE II cutting head into an existing system with a KMT pneumatic valve



0.38 M x 0.25 F, High Pressure Tubing

20454363



0.38 M x 0.38 F, High Pressure Tubing

20454366





Orifices & Focusing Tubes

KMT's proprietary diamond orifice mounting & alignment processes deliver a truly superior cutting stream, resulting in longer focus tube life and faster cutting. All of our diamond abrasive cutting orifices are tested in-house to assure the KMT quality you expect.

For water-only cutting try the KMT FOODgrade™ diamond orifice with a longer coherent cutting stream, exclusively from KMT. Call for details.

KMT offers focusing tubes in a variety of materials, prices and sizes to match your cutting needs from leading manufacturers Kennametal and Ceratizit.

ORIFICES FOR PURE WATER CUTTING

DESCRIPTION

PART No.

AQUALINE PRO

6,200 bar

Diamond Orifice

0.004" / 0.10 mm

20481704

0.005" / 0.12 mm

20481705

0.006" / 0.15 mm

20481706

0.007" / 0.17 mm

20481707

0.008" / 0.20 mm

20481708

0.009" / 0.23 mm

20481709

0.010" / 0.25 mm

20481710

0.011" / 0.28 mm

20481711*

0.012" / 0.30 mm

20481712

0.013" / 0.33 mm

20481713*

0.014" / 0.35 mm

20481714

0.015" / 0.38 mm

20481715*

0.016" / 0.40 mm

20481716

0.017" / 0.43 mm

20481717*

0.018" / 0.46 mm

20481718*

0.019" / 0.48 mm

20481719*

0.020" / 0.51 mm

20481720*

0.021" / 0.53 mm

20481721*

0.022" / 0.56 mm

20481722*



* Available on request

ORIFICES FOR PURE WATER CUTTING

DESCRIPTION

4,100 bar

Diamond Orifice

0.003" / 0.07 mm

0.004" / 0.10 mm

0.005" / 0.12 mm

0.006" / 0.15 mm

0.007" / 0.17 mm

0.008" / 0.20 mm

0.009" / 0.23 mm

0.010" / 0.25 mm

0.012" / 0.30 mm

0.013" / 0.33 mm

0.014" / 0.35 mm

0.015" / 0.38 mm

0.016" / 0.40 mm

0.018" / 0.46 mm

0.019" / 0.48 mm

0.020" / 0.51 mm

0.022" / 0.56 mm

Sapphire Orifice

0.003" / 0.07 mm

0.004" / 0.10 mm

0.005" / 0.12 mm

0.006" / 0.15 mm

0.007" / 0.17 mm

0.008" / 0.20 mm

0.009" / 0.23 mm

0.010" / 0.25 mm

0.011" / 0.28 mm

0.012" / 0.30 mm

0.013" / 0.33 mm

0.014" / 0.35 mm

0.015" / 0.38 mm

0.016" / 0.40 mm

0.018" / 0.46 mm

0.019" / 0.48 mm

0.020" / 0.51 mm

0.022" / 0.56 mm

PART No.

49888852

49888860

49888878

49888886

49888894

49888902

49888910

49888928

49888936

49836786*

49888944

49888951

49888969

49888977

20436198*

49888985

49888993

A2260003*

49863574

49863582

91954073

49863590

49865850

49863608

49863616

A2260011*

49863624

A2260013*

49863632

A2260015

A2260016

A2260018*

A2260019*

A2260020*

A2260022*



FOODGRADE™ ORIFICES FOR PURE WATER CUTTING

DESCRIPTION

PART No.



4,100 bar

Diamond Orifice

0.005" / 0.12 mm

72113688

0.006" / 0.15 mm

72132350

0.007" / 0.17 mm

72113680

0.008" / 0.20 mm

72132358

0.009" / 0.23 mm

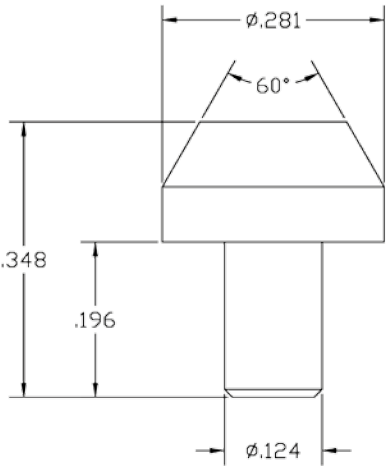
72136231

0.010" / 0.25 mm

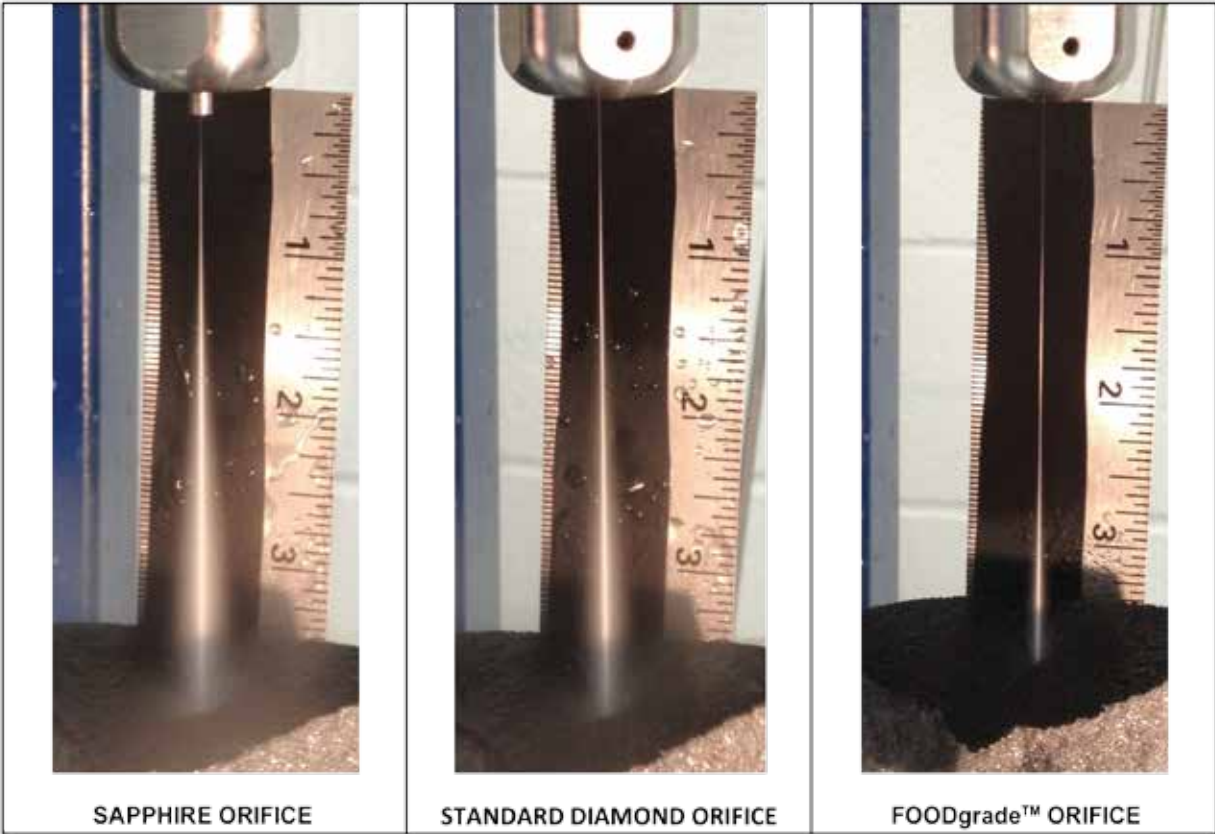
72136249

0.011" / 0.28 mm

72136256



WATER ONLY ORIFICE COMPARISONS



SAPPHIRE ORIFICE

STANDARD DIAMOND ORIFICE

FOODgrade™ ORIFICE

* Available on request

ORIFICES FOR ABRASIVE CUTTING

DESCRIPTION

PART No.

AUTOLINE PRO

6,200 bar
For True Alignment & Maximum Performance

Wear Insert Cartridge with Diamond Orifice

0.007" / 0.17 mm	20481607
0.008" / 0.20 mm	20496208
0.009" / 0.23 mm	20481609
0.010" / 0.25 mm	20496210
0.011" / 0.28 mm	20496211
0.012" / 0.30 mm	20496212
0.013" / 0.33 mm	20481613
0.014" / 0.35 mm	20496214
0.015" / 0.38 mm	20496215



ORIFICES FOR ABRASIVE CUTTING

DESCRIPTION

PART No.

AUTOLINE I & II

4,100 bar
For True Alignment & Maximum Performance

Diamond Orifice

0.004" / 0.10 mm	20448625*
0.007" / 0.17 mm	05063847
0.008" / 0.20 mm	05112537
0.009" / 0.23 mm	05084504
0.010" / 0.25 mm	05077029
0.011" / 0.28 mm	05101753
0.012" / 0.30 mm	05077300
0.013" / 0.33 mm	05136098
0.014" / 0.35 mm	05077037
0.015" / 0.38 mm	80075781*
0.016" / 0.40 mm	05121512
0.018" / 0.46 mm	05114905*
0.019" / 0.48 mm	80086663*
0.020" / 0.51 mm	05114897

Sapphire Orifice

0.004" / 0.10 mm	05214794
0.005" / 0.12 mm	05222836
0.007" / 0.17 mm	80217
0.008" / 0.20 mm	80220
0.009" / 0.23 mm	80423
0.010" / 0.25 mm	80225
0.011" / 0.28 mm	80227
0.012" / 0.30 mm	80230
0.013" / 0.33 mm	80433
0.014" / 0.35 mm	80235
0.016" / 0.40 mm	80240
0.018" / 0.46 mm	80245
0.019" / 0.48 mm	80086671*
0.020" / 0.51 mm	05114921



* Available on request

Issue Fall 2015

DESCRIPTION

PRO Series Indexed

The PRO Series features the superior HYPER-TUBE Index Design for longer, more uniform wear preventing "focusing tube blow-out"

0.030 x 3.0 / 0.76 mm x 76 mm	20477366
0.030 x 4.0 / 0.76 mm x 102 mm	20477382
0.033 x 4.0 / 0.84 mm x 102 mm	20490760
0.040 x 3.0 / 1.02 mm x 76 mm	20486133*
0.040 x 4.0 / 1.02 mm x 102 mm	20486166*
0.043 x 3.0 / 1.10 mm x 76 mm	20477386
0.043 x 4.0 / 1.10 mm x 102 mm	20477395
0.045 x 3.0 / 1.14 mm x 76 mm	20486151*
0.045 x 4.0 / 1.14 mm x 102 mm	20486158
0.048 x 4.0 / 1.22 mm x 102 mm	20490768

ROCTEC® 100

0.021 x 3.13 / 0.53 mm x 79 mm	20451227*
0.025 x 3.13 / 0.63 mm x 79 mm	20452309*
0.030 x 3.13 / 0.76 mm x 79 mm	10126969
0.036 x 3.13 / 0.91 mm x 79 mm	80075252
0.039 x 3.13 / 0.99 mm x 79 mm	49833593*
0.040 x 3.13 / 1.02 mm x 79 mm	49835390
0.043 x 3.13 / 1.10 mm x 79 mm	10126928
0.052 x 3.13 / 1.32 mm x 79 mm	05117528
0.058 x 3.13 / 1.47 mm x 79 mm	05051891*
0.063 x 3.13 / 1.60 mm x 79 mm	10126936

ROCTEC® 500

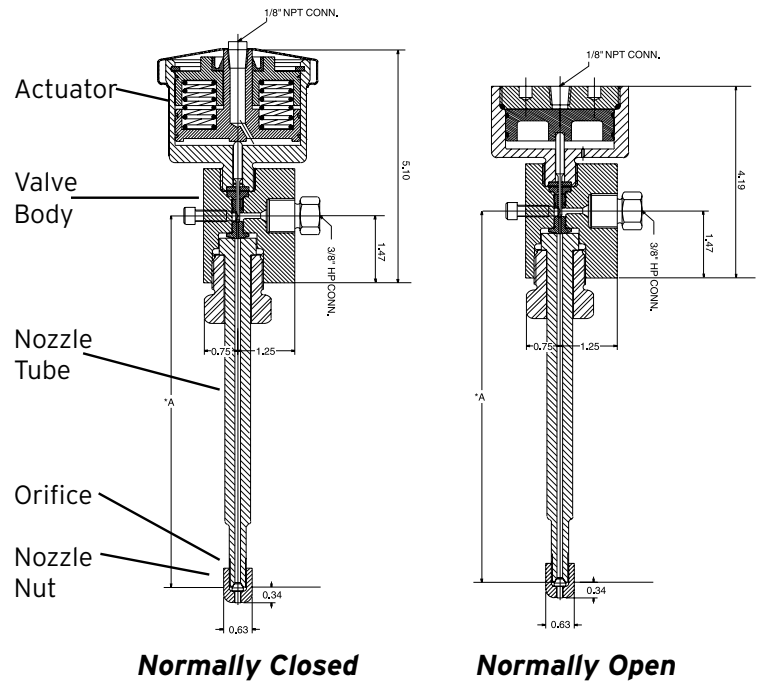
0.021 x 2.0 / 0.53 mm x 50 mm	05097928
0.030 x 3.13 / 0.76 mm x 79 mm	05097944
0.036 x 3.13 / 0.91 mm x 79 mm	05116652
0.043 x 3.13 / 1.10 mm x 79 mm	05097936
0.093 x 3.13 / 2.36 mm x 79 mm	05130927*

PART No.

HyperTube®
Index Design







Pneumatic Valves & Replacement Parts

When you need reliability, speed and safety you turn to KMT. The newly designed Aqualine pneumatic valves from KMT Waterjet use an innovative seal and stem design to maximize life and deliver the greatest value. These valves enable longer production runs, resulting in increased output.

Designed to Perform Longer

The Aqualine Normally Open & Normally Closed (NO/NC) valves have very reliable and fast performance due to the 6 stainless

steel springs which apply the force to open or close the valve. The re-designed valves have an improved stem design and specialized seals which provide a far better performance and enable increased production.

The dump valve safely relieves pressure during any waterjet operation. Using KMT Genuine Parts ensures that your dump valve operates reliably as designed.

DESCRIPTION	PART No.	
UHP, 6,200 bar - N/C	20480359	
UHP, 6,200 bar - N/O 2-port Dump valve	20468634	
HP, 4,100 bar - N/C	10138824	
HP, 4,100 bar - N/C, IDE® Gland	20454354	
HP, 4,100 bar - N/O	10184760	
HP, 4,100 bar - N/O 2-Port Dump valve, Solenoid valve, Square body	05069703	
HP, 4,100 bar - N/O 3-Port Dump valve, Round body	20427739	

* Available on request

DESCRIPTION

PART No.

UHP Pneumatic Valve, N/C, 6,200 bar

Kit includes valve seat and stem, seal assembly, brass backup ring and o-rings required to service the valve and the actuator

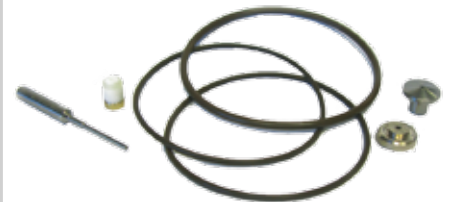
20477521



UHP Pneumatic Valve, N/O, 6,200 bar

Kit includes valve seat and stem, seal assembly, brass backup ring and o-rings required to service the valve and the actuator

20477518



HP Pneumatic Valve, N/C, 4,100 bar

Kit includes valve seat and stem, seal assembly, backup ring & o-ring required to service the valve

05116025



HP Pneumatic Valve, N/C, Cold Weather Seal Assembly, 4,100 bar

Kit includes valve stem and seat, CWS seal assembly, bronze backup ring and o-ring

05146964*



HP Pneumatic Valve, N/O, 4,100 bar

Kit includes valve seat and stem, seal assembly, backup ring & o-rings required to service the valve and the actuator

05116017



DESCRIPTION

PART No.



N/C Actuator Assembly

4,100/6,200 bar
Kit includes top and bottom protector tool, and snap ring pliers to service all HP and UHP, N/C pneumatic actuator assemblies

80077795



Seal Tools, HP/UHP Pneumatic Valves

4,100/6,200 bar
Used to service all HP and UHP pneumatic valves. Kit includes a seal push, positioning and installation tool

20470475



PNEUMATIC VALVE BODIES



Stainless Steel

6,200 bar.
For use on all KMT UHP pneumatic valves

20475871



Dump Valve, Stainless Steel

6,200 bar.
For use on all KMT UHP pneumatic dump valves

20468617



2-Port, (2) 0.38, (1) 0.56, Stainless Steel

4,100 bar.
For use on all KMT 2-port HP pneumatic valves

10189181



3-Port, 0.38, Stainless Steel

4,100 bar.
For use on all KMT 3-port HP pneumatic dump valves

20427648



DESCRIPTION

PART No.

■	UHP Actuator - N/C
	6,200 bar For o-rings see page 71
■	UHP Actuator - N/O
	6,200 bar For o-rings see page 71
■	HP Actuator - N/C
	4,100 bar For o-rings see page 71
■	HP Actuator - N/O
	4,100 bar For o-rings see page 71
■ ■	Solenoid Valve - 24V DC
	5,4 W 8,5 W, for AQUALINE Cutting Head

20474154

20479022

10177855

10189553

49888035

05450127



DESCRIPTION

PART No.

UHP Pneumatic Valve, Stainless Steel
6,200 bar
For use on all KMT UHP pneumatic valves

20475882



HP Pneumatic Valve, Stainless Steel
4,100 bar
For use on all KMT HP pneumatic valves

10187250



NOZZLE NUTS

0.56, UHP
6,200 bar

20478993

KMT
Photo not available

0.75, UHP
6,200 bar

20480993



0.38, LH Thread
4,100 bar

49863665



0.56, LH Thread
4,100 bar

49865405



DESCRIPTION

PART No.



**0.56, Valve nut for Nozzle Tube,
Stainless Steel**

6,200/4,100 bar

49894249



**0.75, Valve nut for Nozzle Tube,
Stainless Steel**

6,200/4,100 bar

20454351



**Compression Spring - 0.72 x 0.105 x 1.50,
Stainless Steel**

For use on all NC KMT HP/UHP pneumatic
actuators

05054119



Adapter, HP Water Valve

4,100 bar
For use on all HP 3-port and quick release
dump valves

49830904



Adapter, Tube/Pipe, 0.25 x 0.13

Used to connect air tube to solenoid valve
on pneumatic valve/actuator assemblies

10077030



Coupling Pipe, 0.13 x 0.13

Used to connect solenoid valve to actuator
on pneumatic valve/actuator assemblies

10102226



DESCRIPTION

(ALL DIMENSIONS ARE DIAMETER" x LENGTH")

**3/4" Ultra High Pressure Nozzle Tube,
for use with Short Stop Filter, 6,200 bar**

0.75 x 3.50 / 1.9 x 8.89 cm, LH Thread

0.75 x 4.50 / 1.9 x 11.43 cm, LH Thread

0.75 x 5.75 / 1.9 x 14.60 cm, LH Thread

0.75 x 6.25 / 1.9 x 15.88 cm, LH Thread

0.75 x 9.75 / 1.9 x 24.77 cm, LH Thread

PART No.

20487241

20487249

20487257

20497106*

20487273



* Available on request

DESCRIPTION

(ALL DIMENSIONS ARE DIAMETER" x LENGTH")

PART No.

3/8" Connection, 4,100 bar

0.38 x 3.0 / 0.97 x 10.16 cm

10181113

0.38 x 4.0 / 0.97 x 10.16 cm

10138584

0.38 x 5.0 / 0.97 x 12.70 cm

10138592

0.38 x 6.0 / 0.97 x 15.24 cm

10138600

0.38 x 7.0 / 0.97 x 17.78 cm

10138618

0.38 x 8.0 / 0.97 x 20.32 cm

10138634

0.38 x 9.0 / 0.97 x 22.86 cm

10138642

0.38 x 10.0 / 0.97 x 25.40 cm

10138659

3/8" Nozzle Nut Connection, 4,100 bar

0.38 x 4.0 / 0.97 x 10.16 cm

10138402

0.38 x 5.0 / 0.97 x 12.70 cm

10138410

0.38 x 6.0 / 0.97 x 15.24 cm

10138428

0.38 x 7.0 / 0.97 x 17.78 cm

10138436

0.38 x 8.0 / 0.97 x 20.32 cm

10138444

0.38 x 9.0 / 0.97 x 22.86 cm

10138451

0.38 x 10.0 / 0.97 x 25.40 cm

10138469

0.38 x 11.0 / 0.97 x 27.94 cm

05136031*

0.38 x 12.0 / 0.97 x 30.48 cm

05013735

3/8" Nozzle Nut Connection W/High Pressure Connection, 4,100 bar

0.38 x 3.0 / 0.97 x 7.62 cm

A22593*

0.38 x 4.0 / 0.97 x 10.16 cm

A22594*

0.38 x 5.0 / 0.97 x 12.70 cm

A22595*

0.38 x 6.0 / 0.97 x 15.24 cm

A22596*

0.38 x 8.0 / 0.97 x 20.32 cm

A2259800*

0.38 x 10.0 / 0.97 x 25.40 cm

A225910*

0.38 x 11.0 / 0.97 x 27.94 cm

A225911*

0.38 x 12.0 / 0.97 x 30.48 cm

A225912*



DESCRIPTION

(ALL DIMENSIONS ARE DIAMETER" x LENGTH")

PART No.

9/16" Connection, 4,100 bar

0.56 x 4.0 / 1.42 x 10.16 cm

10138667

0.56 x 5.0 / 1.42 x 12.70 cm

10138675

0.56 x 6.0 / 1.42 x 15.24 cm

10138683

0.56 x 7.0 / 1.42 x 17.78 cm

10138691

0.56 x 8.0 / 1.42 x 20.32 cm

10138709

0.56 x 9.0 / 1.42 x 22.86 cm

10138717

0.56 x 10.0 / 1.42 x 25.40 cm

10138725

0.56 x 11.0 / 1.42 x 27.94 cm

80074446*

9/16" Nozzle Nut Connection, 4,100 bar

0.56 x 4.0 / 1.42 x 10.16 cm

10138485

0.56 x 5.0 / 1.42 x 12.70 cm

10138493

0.56 x 6.0 / 1.42 x 15.24 cm

10138501

0.56 x 7.0 / 1.42 x 17.78 cm

10138519

0.56 x 8.0 / 1.42 x 20.32 cm

10138527

0.56 x 9.0 / 1.42 x 22.86 cm

10138535

0.56 x 10.0 / 1.42 x 25.40 cm

10181105*

0.56 x 12.0 / 1.42 x 30.48 cm

10193100*

3/4" For use with KMT IDE Cutting Head, 4,100 bar

0.75 x 3.75 / 1.91 x 9.53 cm, LH Thread

20489074

0.75 x 4.75, / 1.91 x 12.07 cm, LH Thread

20489092

0.75 x 5.75 / 1.91 x 14.60 cm, LH Thread

20455329

0.75 x 7.75 / 1.91 x 19.69 cm, LH Thread

20480977

0.75 x 8.75 / 1.91 x 22.23 cm, LH Thread

72101354*

0.75 x 9.75 / 1.91 x 24.77 cm, LH Thread

20464647





High Pressure Fittings & Tubing

KMT offers high pressure tubing and fittings for all waterjet system needs and other high-pressure applications. Engineered for long life and reliability, KMT fittings are rated for use at 4,100 bar and 6,900 bar.

KMT employs proprietary manufacturing processes to ensure the longest life for HP and UHP tubing. Customized design is available to meet your needs - contact KMT Customer Service for details.

DESCRIPTION

PART No.

Stainless Steel Tubing

6,900 bar

Coned & Threaded - Up to 4' Lengths

0.25 x 0.083 x 3.02", HP160

20489761*

0.25 x 0.083 x 4.0", HP160

20487975*

0.25 x 0.083 x 7.625", HP160

72104402*

0.38 x 0.125 x 4.0", HP160

20478649

0.38 x 0.125 x 4.81", HP160

20468830

0.38 x 0.125 x 48.0", HP160

20489107*

0.56 x 0.188 x 4.25", HP160

20493999

0.56 x 0.188 x 6.38", HP160

72103733

0.56 x 0.188 x 8.93", HP160

72103386*

0.56 x 0.188 x 14.49", HP160

72103361*

0.56 x 0.188 x 17.22", HP160

72103379*

0.56 x 0.188 x 36.0", HP160

72108319*

Coned & Threaded - 20' Length

0.25 x 0.083 x 240.0", HP160

20478751

0.38 x 0.083 x 240.0", HP160

20489115*

0.56 x 0.083 x 240.0", HP160

72103535*

HP Tubes sold by meter

0.25

20455338

0.38

05210265

0.56

05210273



DESCRIPTION

PART No.



Stainless Steel Tubing

4,500 bar

Coned & Threaded - Up to 8' Lengths

0.25 x 0.083 x 4.0", 316

10105880*

0.25 x 0.083 x 6.0", 316

10103018*

0.25 x 0.083 x 8.0", 316

80070519*

0.38 x 0.125 x 3.0", 316

10094704

0.38 x 0.125 x 4.0", 316

10105443

0.38 x 0.125 x 5.0", 316

10090280

0.56 x 0.188 x 4.0", 316

10069326

0.56 x 0.188 x 4.97", 316

05112057

Coned & Threaded - 20' Length

0.25 x 0.083 x 240.0", 316

10094191*

0.38 x 0.083 x 240.0", 316

10094183

0.56 x 0.083 x 240.0", 316

10094175*

HP Tubes sold by meter

0.25

91956078

0.38

91956094

0.56

91956102



DESCRIPTION

PART No.

Hose - Ferrule

0.25 x 0.265 x 0.718, Brass

20422970

0.38 x 0.265 x 0.718, Brass

10083897

0.56 x 0.265 x 0.718, Brass

05131347

Conduit - Extra Flexible

0.25, Stainless steel

20422988

0.38, Stainless steel

10186153

0.56, Stainless steel

05086905

HP & UHP stainless steel bent tubing is intensifier model specific. Please contact your local KMT representative (see page 83) for ordering assistance.

HP & UHP stainless steel coils are robot specific. Please contact your local KMT representative (see page 83) for ordering assistance.

HP hoses

Multilayer stainless steel mesh with ferrule terminals of 316 stainless steel (V4A). Interior lined with polyoxymethylene.

Multiple lengths available.

Please contact your local KMT representative (see page 83) for ordering assistance.



HIGH PRESSURE FITTINGS

DESCRIPTION

PART No.

UHP Stainless Steel Coupling Assembly, 6,900 bar

0.25 x 0.25

20477023

0.38 x 0.25

20477738

0.38 x 0.38

20477660

0.56 x 0.25

20477730

0.56 x 0.38

20477709

0.56 x 0.56

20477685

HP Stainless Steel Coupling Assembly, 4,100 bar

0.25 x 0.25

10079028

0.38 x 0.25

10079614

0.38 x 0.38

10078905

0.56 x 0.25

10078145

0.56 x 0.38

10079531

0.56 x 0.56

10078640

UHP Stainless Steel Elbow Assembly, 6,900 bar

0.25

20455821

0.38

20455809

0.56

20455377

HP Stainless Steel Elbow Assembly, 4,100 bar

0.25

10079051

0.38

10078780

0.56

10078525



DESCRIPTION	PART No.
■ UHP Stainless Steel Tee Assembly, 6,900 bar 0.25 20455824 0.38 20455812 0.56 20455374	
■ HP Stainless Steel Tee Assembly, 4,100 bar 0.25 10079481 0.38 10078590 0.56 10079465	
■ UHP Stainless Steel Cross Assembly, 6,900 bar 0.25 20452971 0.38 20452968 0.56 20453115	
■ HP Stainless Steel Cross Assembly, 4,100 bar 0.25 10097228 0.38 10078038 0.56 10079168	



* Available on request

DESCRIPTION

PART No.

UHP Stainless Steel Bushing Assembly, 6,900 bar

0.38 F x 0.25 M

72133175

0.38 M x 0.25 F

72133224

0.56 F x 0.25 M

72133183

0.56 M x 0.25 F

72133232

0.56 F x 0.38 M

72133209

0.56 M x 0.38 F

72133250

HP Stainless Steel Bushing Assembly, 4,100 bar

0.38 M x 0.25 F

10079432

0.38 F x 0.25 M

10079473

0.56 M x 0.25 F

10079580

0.56 F x 0.25 M

10079424

0.56 M x 0.38 F

10079457

0.56 F x 0.38 M

10079655

0.75 M x 0.56 F

49837206*

0.75 F x 0.56 M

49832801*

UHP Stainless Steel Collar 6,900 bar

0.25

20452959

0.38

20452965

0.56

20453124

HP Stainless Steel Collar 4,100 bar

0.25

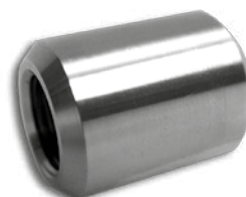
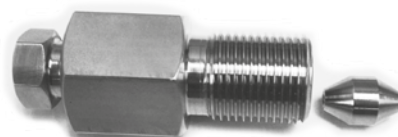
10078426

0.38

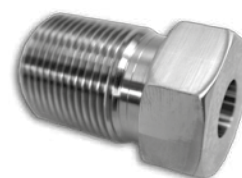
10078715

0.56

10079119



DESCRIPTION		PART No.
■	UHP Stainless Steel Gland 6,900 bar	
	0.25	20452962
	0.38	20452956
	0.56	20453121
■	HP Stainless Steel Gland 4,100 bar	
	0.25	10078459
	Anti-Vibration, 0.25	10078699
	0.38	10078129
	Anti-Vibration, 0.38	10078913
	0.56	10078608
	Anti-Vibration, 0.56	10093573
	0.75	49832678*
■	UHP Stainless Steel Adapter Cone, 6,900 bar	
	0.25	72133266
	0.38	72122072
	0.56	72133349
■	HP Stainless Steel Adapter Cone, 4,100 bar	
	0.25	10116333
	0.38	10078509
	0.56	10079291



* Available on request

DESCRIPTION		PART No.
■	UHP Stainless Steel Plug, 6,900 bar	
	0.25	20453130
	0.38	20453136
	0.56	20453127
■	HP Stainless Steel Plug, 4,100 bar	
	0.25	10078244
	0.38	10079523
	0.56	10078772
■	UHP Stainless Steel Hand Valve, Straight, 6,900 bar	
	0.25	20467981
	0.38	20468568
	0.56	20468014
■	HP Stainless Steel Hand Valve, Straight, 4,100 bar	
	0.25	10079259
	0.38	10078863
	0.56	10078889



DESCRIPTION

PART No.

**UHP Stainless Steel Hand Valve,
90 degree,
6,900 bar**

0.25

20468610

0.38

20468593

0.56

20477836

**HP Stainless Steel Hand Valve, 90 degree,
4,100 bar**

0.25

10079002

0.38

10078749

0.56

10079275

**HP Stainless Steel Valve Assembly, 3-Way,
1 Press, 0.38, 2 Stem
4,100 bar**

10119030

**Repair Kit for 1 Stem Hand Valves
4,100 bar**

05218652



DESCRIPTION**PART No.****Poppet Check Valve PRO,
6,900 bar**

0.38

20477619

0.56

20455911**Poppet Check Valve,
4,100 bar**

0.25

80073885

0.38

05075999

0.56

10096139

DESCRIPTION

PART No.

Filter Element UHP Water Filter Assembly

20453553

6,200 bar
Sintered Cup, 20 Micron.
For use with UHP Filter Assembly 20475916
& 20475944



Filter Element UHP Water Filter Assembly

20456913

6,200 bar
Sintered Cup, 20 Micron.
For use with UHP Filter Assembly 20481026
& 20480940



Filter Element - HP Water Filter Assembly

05110531

4,100 bar
0.25, Sintered Cup, 20 Micron.
For use with HP Filter Assembly 05114137



Filter Element - HP Water Filter Assembly

49862261

4,100 bar
.38, Sintered Cup, 20 Micron.
For use with HP Filter Assembly 49863715



Filter Element - HP Water Filter Assembly

49894272

4,100 bar
0.56, Sintered Cup, 20 Micron.
For use with HP Filter Assembly 49893555



HP WATER FILTER ASSEMBLIES

DESCRIPTION

PART No.

UHP Water Filter Assembly - Inline

6,200 bar
Small

0.25, Stainless Steel

20481026

0.38, Stainless Steel

20480940



UHP Water Filter Assembly - Inline

6,200 bar
Large

0.38, Stainless Steel

20475916

0.56, Stainless Steel

20475944



HP Water Filter Assembly - Inline

4,100 bar
0.25, 20 Micron, Stainless Steel

05114137



HP Water Filter Assembly - Inline

4,100 bar
0.38, 20 Micron, Stainless Steel

49863715



HP Water Filter Assembly - Inline

4,100 bar
0.56, 20 Micron, Stainless Steel

49893555



Bayonet Nipple - HP Water Filter

4,100 bar
0.38
For use in HP Filter Assembly 49863715

05044375



DESCRIPTION

PART No.

- **UHP, 90°, 0.25 F/F Connections**
6,200 bar
- **HP, 90°, 0.25 F/F Connections**
4,100 bar
- **HP, 90°, 0.25 M/F Connections**
4,100 bar
- **HP, 90°, 0.38 M/F Connections**
4,100 bar

20491098

80129

91959130

10134682



SWIVEL JOINTS - CAP ASSEMBLIES

- **Cap Assembly, 0.25/0.38, M/F**
4,100 bar
- **Cap Assembly, 0.25, F/F**
4,100 bar

91959643

80125



SWIVEL JOINTS - STRAIGHT BODIES

- **UHP Body - Straight, 0.25 Connections**
6,200 bar
- **HP Body - Straight, 0.25 Connections**
4,100 bar
- **HP Body - Straight, 0.38 Connections**
4,100 bar

20486976

05024641

10134716*



* Available on request

SWIVEL JOINTS - SPINDLES

DESCRIPTION

PART No.

 **UHP Spindle - 0.25 F**
6,200 bar

20486952



 **UHP Spindle - 0.25 M**
6,200 bar

20490843

Photo not available

 **HP Spindle - 0.25 F**
4,100 bar

80126



 **HP Spindle - 0.25 M**
4,100 bar

91959668



 **HP Spindle - 0.38 M**
4,100 bar

49899602



SWIVEL JOINTS - STRAIGHTS

 **UHP, Straight, 0.25 F/F Connections**
6,200 bar

20477623



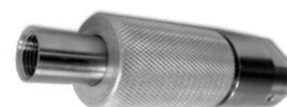
 **UHP, Straight, 0.25 F/M Connections**
6,200 bar

20490851



 **HP, Straight, 0.25 F/F Connections**
4,100 bar

91959122



 **HP, Straight, 0.25 M/F Connections**
4,100 bar

80130



 **HP, Straight, 0.38 M/F Connections**
4,100 bar

10134708



90 DEGREE BODIES

0.25 = 1/4 inch 0.56 = 9/16 inch
0.38 = 3/8 inch 0.75 = 3/4 inch

DESCRIPTION

PART No.

UHP Body - 90°, 0.25 Connections
6,200 bar

20490859

HP Body - 90°, 0.56 x 0.25 M/F Connections
4,100 bar

91959635

HP Body - 90° 0.38 x 0.38 M/F Connections
4,100 bar

10134690



BUSHINGS

Bushing, 0.25/0.38 Connection
4,100 bar

91959627



THRUST BEARINGS

Thrust Bearing , 0.25 Connections
6,200 bar

20475956

Thrust Bearing 0.25/0.38 Connection
4,100 bar

10084713



DESCRIPTION

PART No.

- **Seal Assembly, 0.25 Connections**
6,200 bar

- **Seal Assembly, 0.25/0.38 Connection**
4,100 bar

- **Clamp Collar, 0.25, F/F Connection**
4,100 bar

- **Thrust Washer, 0.25/0.38 Connections**
4,100 bar

20487002



91959650



10154680



10094647



DESCRIPTION

PART No.

Repair Kit -UHP Swivel Joint Assembly,
0.25/0.38 Connections

72129713*

6,200 bar

Kit includes seal assembly, thrust bearing
and washer, and setscrew required to service
all UHP swivel joint assemblies



Tool Kit - UHP Swivel Joint Assembly

20488720

6,200 bar

Kit includes maintenance tools and
lubricants required to repair any UHP swivel
joint assembly



Repair Kit - HP Swivel Joint Assembly,
0.25/0.38 Connections

05116009

4,100 bar

Kit includes seal assembly, thrust bearing
and washer, and setscrew required to service
all HP swivel joint assemblies



* Available on request

CONING & THREADING TOOL KITS

DESCRIPTION

PART No.



Tool Kit - Hand Coning/Threading Tools

Kit includes 0.25, 0.38 and 0.56 hand coning & hand threading tool

20454198*



Tool Kit - Power Coning/Threading Tools

Kit includes 0.25, 0.38 and 0.56 power coning & power threading tool

20454201



CONING TOOL ASSEMBLIES

TOOL ASSEMBLIES INCLUDE 4 oz CONING LUBRICANT



Hand Coning Tool Assemblies

0.25

05108832

0.38

05108857

0.56

05108840



Power Coning Tool Assemblies

0.25

05109897

0.38

05109889

0.56

05109871



THREADING TOOL ASSEMBLIES

0.25 = 1/4 inch 0.56 = 9/16 inch
0.38 = 3/8 inch 0.75 = 3/4 inch

DESCRIPTION

TOOL ASSEMBLIES INCLUDE 4 oz CONING LUBRICANT

Hand Threading Tool Assemblies

0.25	05108865
0.38	05108873
0.56	05108881

Power Threading Tool Assemblies

0.25	05122742
0.38	05120258
0.56	05122759



CONING & THREADING

Blade

0.25, Hand or Power, Coning	05108808
0.38, Hand or Power, Coning	05108824
0.56, Hand or Power, Coning	05108816

Retainer

0.25, Hand or Power, Bronze, Threading	05108741*
0.38, Hand or Power, Bronze, Threading	05108758
0.56, Hand or Power, Bronze, Threading	05108766

Retainer

0.25, Power, Bronze, Coning	05109814
0.38, Power, Bronze, Coning	05109822*
0.56, Power, Bronze, Coning	05109830*

Tube Vise

0.25	05108782
0.38	05108790
0.56	05108774



* Available on request

DESCRIPTION

PART No.



Threading Die

1/4-28 LH, 0.25, Hand or Power

05108899

3/8-24 LH, 0.38, Hand or Power

05108915

9/16-18 LH, 0.56, Hand or Power

10078301



Collet

0.25, Hand Coning, Stainless Steel

05108972

0.38, Hand Coning, Stainless Steel

05108964*

0.56, Hand Coning, Stainless Steel

20439964*



HAND CONING & THREADING TOOL KIT "SMALL BLADE"



Tool Kit - Hand Coning/Threading Tools

Kit includes 0.25, 0.38 and 0.56 hand coning & hand threading tool

05210174



HAND CONING & THREADING TOOL ASSEMBLIES



Hand Coning Tool Assemblies

0.25

80386

0.38

80387

0.56

80141



Hand Threading Tool Assemblies

0.25

80388

0.38

80389

0.56

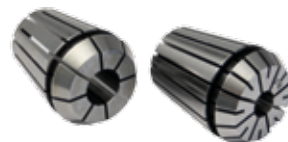
80145



HAND CONING & THREADING

0.25 = 1/4 inch 0.56 = 9/16 inch
0.38 = 3/8 inch 0.75 = 3/4 inch

DESCRIPTION		PART No.
	Collet	
	0.25, Hand Coning	80142
	0.38, Hand Coning	80143
	0.56, Hand Coning	80144
	Blade	
	Hand Coning, 0.25 - 0.56	80152
	Threading Die	
	1/4-28 LH, 0.25, Hand Threading	80146
	3/8-24 LH, 0.38, Hand Threading	80147
	9/16-18 LH, 0.56, Hand Threading	80148
	Guide Bushing	
	0.25, Hand Threading	80149
	0.38, Hand Threading	80150
	0.56, Hand Threading	80151



* Available on request

Issue Fall 2015



Miscellaneous Parts & Supplies



LP WATER FILTER COMPONENTS

DESCRIPTION	PART No.	
Filter Element, LP Water, 10.0 long, polypropylene 10 micron	10106722	
40 micron	10100782	
Filter Element, LP Water 10 micron, 20.0 long, polypropylene Used on all SL-VI (PRO) units	72125264	
Filter Element, LP Water 10 micron, 20.0 long, polypropylene Used on all SL-V, PRO-I and PRO-2 units	49834716	
Filter Housing Assembly - LP Water, 0.75 FNPT connections, stainless steel, manual relief valve Uses Part Number 49834716 Filter Element Replaces Part #05038690	72118339	
Filter Strainer, 50 NPTF, 40 Mesh, polypropylene	20412815	

HYDRAULIC OIL FILTER COMPONENTS

Hydraulic, 6 micron, 4.0 long, spin on For 15 to 60 horsepower units	05049689	
Hydraulic, 10 micron, 9.40 long, spin on For 75 to 200 horsepower units	05104187	

* Available on request

O-RINGS FOR SEALING HEADS

DESCRIPTION

PART No.



O-Ring - 131, 1.69 x 1.88 x 0.09, Buna-N, D-70

Used on all PRO-I units,
Used on sealing head 20480113 (p. 18)

10146082



O-Ring, Metric, 3MM x 1XX, Buna-N, D-70

Used on SL-IV units
Used on sealing head 05116769 (p. 19)

05049853



O-RINGS FOR PNEUMATIC VALVES



O-Ring - 035, 2.25 x 2.38 x 0.06, Viton, D-75

Used on all 4,100 and 6,200 bar
N/O pneumatic actuator assemblies (p. 44)

10074565



O-Ring - 143, 2.44 x 2.63 x 0.09, Viton, D-75

Used on all 4,100 and 6,200 bar
N/O pneumatic actuator assemblies (p. 44)

10074714



O-Ring - 038, 2.63 x 2.75 x 0.06, Viton, D-70

Used on all 4,100 and 6,200 bar
N/C pneumatic actuator assemblies (p. 44)

10177806



O-Ring - 044, 0.08 x 0.20 x 0.06, Viton, D-75

Used on all 4,100 and 6,200 bar
N/C pneumatic valve assemblies (p. 44)

49895584



O-RINGS FOR TOPWORKS

DESCRIPTION

PART No.

 **O-Ring - 115, 0.69 x 0.88 x 0.09, Buna-N, D-70**
Used on the proximity switch of all PRO units

05144191



 **O-Ring - 218, 1.25 x 1.50 x 0.13, Polyurethane, D-70**
Used on all hydraulic piston assemblies (p. 13)

05087713



 **O-Ring - 252, 5.25 x 0.5 x 0.13, Viton, D-75**
Used on all SL-V and SL-VI (PRO) units with a 75 (PRO: 60) to 200 horsepower rating
Used on hydraulic cylinder head

10074771



 **O-Ring - 132, 1.75 x 1.94 x 0.09, Buna-N, D-70**
Used on all SL-V, SL-VI and NL-I units
O-Ring for LP water inlet

10074920



 **O-Ring - 214, 1.0 x 1.25 x 0.13, Buna-N, D-70**
Used on all OEM 50 units and all SL-V and NL-I units with a 15 to 60 horsepower rating
Used on intensifier support

10074409



 **O-Ring - 240, 3.75 x 4.0 x 0.13, Buna-N, D-70**
Used on all SL-IV, SL-V, SL-VI and NL-I units with a 15 to 60 horsepower rating
Used on hydraulic cylinder head

10075000



 **O-Ring - 129, 1.56 x 1.75 x 0.09, Buna-N, D-70**
Used on all SL-IV units
O-Ring for LP water inlet

10074904



O-RINGS FOR CUTTING HEADS

DESCRIPTION

PART No.

- O-Ring - 012, 0.38 x 0.50 x 0.06,
Buna-N, D-70**

Used on wear insert for AUTOLINE PRO
cutting head assemblies
- O-Ring - 011, 0.31 x 0.44 x 0.06,
Aflas, D-70**

AUTOLINE II & AUTOLINE PRO cutting head
assemblies
Used in wear insert 20453064 (p. 32)
- O-Ring - 018, 0.75 x 0.88,
Polyurethane, D-70**

AUTOLINE PRO cutting head assemblies
Used in cap 20480732 (p. 31)
- O-Ring, 0.69 x 0.81 x 0.06**

AUTOLINE II & AUTOLINE PRO cutting head
assemblies
Used in nozzle body 20480715 & 20453958
(p. 31)
- O-Ring - 013, 0.44 x 0.56 x 0.06,
Buna-N, D-70**

Used on Abrasive Inlet Adapter
Used on IDE II & IDE PRO cutting heads
- O-Ring - 012, 0.38 x 0.50 x 0.06,
Polyurethane, D-70**

Used on AUTOLINE I & AUTOLINE II cutting
head assemblies
Used in cap 20453952 & 05076971 (p. 31)
- O-Ring - 016, 0.63 x 0.75 x 0.06,
Polyurethane, D-70**

Used on AUTOLINE I cutting head assemblies
Used in nozzle body 05073820 (p. 31)
- O-Ring - 014, 0.50 x 0.63 x 0.06,
Polyurethane, D-70**

Used on AUTOLINE I cutting head assemblies

05077078



20445476



05142286



05138821



10074870



05081518



05092887



05104930



O-RINGS FOR INLINE FILTERS

DESCRIPTION

PART No.

- **O-Ring - 012, 0.38 x 0.50 x 0.06, Viton, D-75**
Used in 49893555 Filter Assembly (p. 65)

10074599



BOOSTER PUMPS

Booster Pump, Stainless Steel, CW ROT

- 14 bar, 1.33 gpm
Used on PRO units with a 60 horsepower rating
- 8 bar, 3.13 gpm
Used on all SL-V and PRO units with a 75 to 125 horsepower rating
- 14 bar, 1.33 gpm
Used on all SL-V units with a 15 to 60 horsepower rating
- 14 bar, 1.33 gpm
Used on all SL-V units with a 15 to 60 horsepower rating and temperature probe

20481206

49836778

49887094

05071659



HOSES

- ■ **Polyurethane Tubing - 0.38, Clear**
- ■ **Push-on Hose - 0.50, 20 bar, Blue**
- ■ **PVC Tubing - 0.50 x 0.748, Reinforced, Static-free**
- ■ **Flexible Tubing - 0.50, Nylon**

49885361

20421272

05076963*

05044532



* Available on request

DESCRIPTION

PART No.

Pressure Gauge - 0-10,300 bar

0.38 HP, Flush Mount, 6" Face, Glycerin filled
For use on 6,200 bar pumps
Requires 20464745 Adapter

20467883

Pressure Gauge - 0-14 bar

0.25 NPT, back mount, Stainless Steel

05139506

Pressure Gauge - 0-350 bar

0.25 bottom mount
For 0.88 plungers, SL-IV and SL-V

05045497

Pressure Gauge - 0-6,900 bar

0.25 HP, 4.25" Face, bottom mount
For use on 4,100 bar pumps

20443831

Pressure Gauge - 0-6,900 bar

0.25 HP, Bottom Mount
6" Face, Glycerin filled
For use on 4,100 bar pumps

05125836



PROXIMITY SWITCH KITS

4,100/6,200 bar, 75-200 horsepower

Used on all 1-1/8" plunger topworks
Used on all 6,200 bar PRO units

20453925

E50, 3,800/4,100 bar

Used on all SL-IV, SL-V, Classic and OEM units
with a 15 to 60 horsepower rating
Replaces Part #05127584

20453934



DESCRIPTION	PART No.
 Solenoid Valve - 24V DC 5,4 W 8,5 W, for AQUALINE Cutting Head	49888035 05450127
 Output Module - Single Point, 24V DC, 3 amp	10146363
 Inlet Pressure Switch, 2 bar, Stainless Steel	05140751
 Valve Proportional Pressure Control	80071087
 Proportional Control Assembly Kit Including Valve (80071087) and installation material	05121987
 Directional Control Valve - Electric, 24V DC, D03, 4-way	05017553
 Directional Control Valve Assembly, 24V DC, D08, 0.055 orifice For SL-IV & SL-V 30, 50, 60 horsepower intensifiers	20437164
 Knob Adjuster Used on all Hydraulic Cartridge Valve Assemblies Pressure Relief, 1.7-207 bar, SL-V, Classic and OEM units	10187052
 Water Modulating Valve	10091866



* Available on request

DESCRIPTION

- Light Bulb 24V**
For use with Klockner Moeller Switches
- Light Bulb 24V AC/DC**
For AB 800F

PART No.

- 05050216
- 20484737



PRESSURE TRANSDUCERS

- UHP Pressure Transducer**
0-6,200 bar
- Pressure Transducer**
0-5,200 bar
- PICO Fuse**

- 20478335
- 49838478
- 49885866



DESCRIPTION		PART No.	
	Hydraulic Tensioner Assembly, PRO Intensifier 6,200 bar	20476132	
	Cylinder Clamp, PRO Intensifier 6,200 bar	20476495	
	Vee Block Cradle	20484961	
HP Seal Removal Tool			
	0.88 Plunger, 4,100/6,200 bar	10148674	
	1.13 Plunger, 4,100 bar	05146618	
Plunger Removal Tool			
	0.88 Plunger, 4,100/6,200 bar	20477460	
	1.13 Plunger, 4,100 bar	20477469	
	Plate Glass Pane 8.0 x 8.0 x 0.25	10149052	
	Emery Cloth 320 Grit, 9.0 x 11.0	10149029	
	400 Grit, 9.0 x 11.0	10149037	
	600 Grit, 9.0 x 11.0	10149045	

DESCRIPTION

PART No.

- Cylinder Wrench**

4,100 bar

- Crowfoot Wrench**

1.625, 0.38 drive

- HP Seal Removal Tool Stand**

4,100 bar

- End Cap Wrench**

4,100 bar , 6x/8x, HSEC

05066139

20477489

80078330

80079239



DESCRIPTION

PART No.

 **Pure Goop Thread Lubricant**
1.0 pound

05026281



 **Pure Goop Thread Lubricant**
1.0 ounce

10084440



 **NLGI-2 Swivel Grease**
14.0 ounce

10067189



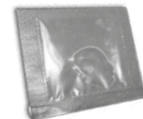
 **FML-2 Grease - FDA Approved**
14.5 ounce

10087385



 **Super-O-Lube O-Ring Grease**
0.07 ounce

20485968



 **Threadlocker Adhesive**
242, 0.50 ML

20487868



 **Threadlocker Primer**
1.75 ounce

20494983



 **JL-M Thread Lubricant**
16.0 ounce

49832199



 **JL-M Thread Lubricant**
15 ML

80082191



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Global Service Around The Corner



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