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## Electric Shift Intensifiers

- **40K Electric Shift**
  - Part: 301002-2
  - Part: 301020-5-3-HL

- **60K Electric Shift**
  - Part: 301002-1
  - Part: 301020-3-3-HL
  - Part: 301020-3-3-HL

## Short Block Intensifiers

- **60K Standard**
  - Part: 301003-1
  - Part: 301003-1-3

- **60K H2O 2pc. Check Valve**
  - Part: 301003-2
  - Part: 301003-3

- **60K Hi-Load**
  - Part: 301003-4

## Mechanical Shift Intensifiers

- **40K Mechanical Shift**
  - Part: 301001-2
  - Part: 301001-2-L

- **40K H2O 2pc. Check Valve**
  - Part: 301001-4
  - Part: 301001-4-HL

- **60K H2O 2pc. Check Valve**
  - Part: 301001-6
  - Part: 301001-6-HL

- **60K Hi-Load**
  - Part: 301001-3

- **60K H2O 2pc. Check Valve Hi-Load**
  - Part: 301001-4-3-HL

- **60K Mechanical Shift**
  - Part: 301002-4

- **60K H2O 2pc. Check Valve Hi-Load**
  - Part: 301002-4-3-HL

- **60K Mechanical Shift Hi-Load**
  - Part: 301002-4-HL

- **40K Mechanical Shift**
  - Part: 301002-1

- **40K Mechanical Shift - H2O 2pc. Check Valve**
  - Part: 301002-2

- **40K Mechanical Shift - H2O 2pc. Check Valve Hi-Load**
  - Part: 301002-2-4-HL

- **40K Mechanical Shift - H2O 2pc. Hi-Load**
  - Part: 301002-2-HL

---

### Electric Shift Intensifier Parts Legend

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<td>F - End Cap Assy.</td>
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<td>G - Electric Pilot Shift &amp; Main Valve Assy.</td>
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<td>H - Quick Disconnect W/Hose Barb Assy.</td>
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<td>I - Hex Nut 3/4-16</td>
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### Parts (Not Shown)

- Electric Shift Sensor Assy.
- Piston & Plunger Assy. 60K
- Piston & Plunger Assy. 40K
- Hi-Load Piston & Plunger Assy. 60K
- Hi-Load Piston & Plunger Assy. 40K

---

### Short Block Intensifier Parts Legend

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<thead>
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<th>Part Description</th>
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<td>A - High Pressure Cylinder 40K</td>
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<td>100001-8</td>
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<td>D - End Bell 60K Left</td>
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<td>D - End Bell 60K Right</td>
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<td>F - End Cap Assy.</td>
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<td>G - Hex Nut 3/4-16</td>
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### Parts (Not Shown)

- Piston & Plunger Assy. 60K
- Piston & Plunger Assy. 40K
- Hi-Load Piston & Plunger Assy. 60K
- Hi-Load Piston & Plunger Assy. 40K

---

### Mechanical Shift Intensifier Parts Legend

<table>
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<th>Part Description</th>
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<td>F - End Cap Assy.</td>
<td>301004-1</td>
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<tr>
<td>G - Cable Guide Assy. Left - Side Mount</td>
<td>30111-1-L</td>
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<tr>
<td>G - Cable Guide Assy. Right - Side Mount</td>
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### Parts (Not Shown)

- Piston & Plunger Assy. 60K
- Piston & Plunger Assy. 40K
- Hi-Load Piston & Plunger Assy. 60K
- Hi-Load Piston & Plunger Assy. 40K

---

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1.5 GPM 60k
Intensifier Parts Legend
A - High Pressure Cylinder 1.5 GPM
B - Hydraulic Cylinder 94k/1.5GPM
C - Tie Rod
D - End Bell 60k Left
D - End Bell 60k Right
E - Check Valve Assy. 60K
F - End Cap Assy.
G - Hex Nut 3/4-16
Parts (Not Shown)
Electric Shift Sensor Assy. 1.5 GPM
Hi-Load Piston & Plunger Assy. 1.5 GPM

1.5 GPM 60k Short Block Intensifier
60k Short Block, Hi-Load
301003-5-3

94k Short Block
Intensifier Parts Legend
A - High Pressure Cylinder
B - Hydraulic Cylinder Short Block
C - Tie Rod LP Short Block
D - Tie Rod HP Section
E - End Bell Short Block - Left
E - End Bell Short Block - Right
F - End Cap Assy.
G - Check Valve Assy.
H - Hex Nut
I - Coupling Nut Tie Rod
Parts (NotShown)
Hi-Load Piston Assy. Short Block
Backup Sleeve Assy.
Pilot Valve Electric Shift
Shift Sensor Assy.

94k Short Block Intensifiers
94k Electric Shift, Hi-Load
391020-3-3

94k Long Block
Intensifier Parts Legend
A - High Pressure Cylinder
B - Hydraulic Cylinder Long Block
C - Tie Rod LP Long Block
D - Tie Rod HP Section
E - End Bell Long Block - Left
E - End Bell Long Block - Right
F - End Cap Assy.
G - Hex Nut
H - Coupling Nut Tie Rod
I - Electric Pilot Shift & Main Valve
J - Shift Sensor Assy.
Parts (Not Shown)
Hi-Load Piston Assy. Long Block
Backup Sleeve Assy.
Check Valve Assy.

94k Long Block Intensifier
94k Electric Shift, Hi-Load & Manifold
391020-4-3-HL

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H2O Jet & Flow Compatible Parts

High Pressure Cylinder
HIGH PERFORMANCE
60K - 4.137 bar
40K - 2.758 bar

High Pressure Seal Kit
60K - 4.137 bar
40K - 2.758 bar

Intensifier Upgrade Kit
60K - 4.137 bar
40K - 2.758 bar

Ceramic Piston Plunger *One Piece
60K - 4.137 bar
40K - 2.758 bar

Backup Sleeve
60K - 4.137 bar
40K - 2.758 bar

End Cap Assembly
60K & 40K

Quick Disconnect
A - Water Inlet
B - Hose Barb

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Fax: 360-539-2440
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<td>301018-1</td>
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<td>Pilot Valve Electrical Shift Dual Solenoid</td>
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<td>400055-1</td>
<td>Main Shift Valve Mechanical</td>
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<td>Pilot Valve Mechanical</td>
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<td>Firing Pin Mechanical</td>
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<td>100051-1-S</td>
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H₂O Jet & Flow Compatible Parts

Check Valve Assembly
Featuring *H₂O Jet 2 Piece Poppet
60K - 4.137 bar
40K - 2.758 bar
301002-3
301002-4

Check Valve Repair Kit *H₂O Jet 2 Piece Poppet
60K & 40K
302003-2

Includes:
A ~ 100001-1, Poppet Seat
B ~ 100056-1, Retaining Screw
C ~ 100058-1, Inlet Poppet
D ~ 102007-1, Outlet Poppet
E ~ 102008-1, Spring Retainer
F ~ 301009-1, Inlet Poppet housing
G ~ 400043-125, O-Ring
H ~ 400130-1, Check Valve Spring

Not Shown:
I ~ 400034-2, O-Ring Lubricant
J ~ 400216-1, Loctite 242 Lubricant

Poppet Outlet Assembly *2 Piece
60K & 40K
301036-1

Check Valve Main Body
60K
100009-1

40K
100009-2

Check Valve Assemby
60K - 4.137 bar
40K - 2.758 bar
301002-1
301002-2

Check Valve Repair Kit
60K & 40K
302003-1

Includes:
A ~ 100001-1, Poppet Seat
B ~ 100056-1, Retaining Screw
C ~ 100058-1, Inlet Poppet
D ~ 102007-1, Outlet Poppet
E ~ 102008-1, Spring Retainer
F ~ 301009-1, Inlet Poppet housing
G ~ 400043-125, O-Ring
H ~ 400130-1, Check Valve Spring

I ~ 400034-2, O-Ring Lubricant
J ~ 400216-1, Loctite 242 Lubricant

Check Valve Outlet Body
60K & 40K
100022-1

Check Valve Outlet Body
60K & 40K * H₂O JET Style
100022-2

H₂O Jet Check Valve Upgrade Kit
60K & 40K
302040-1

Includes:
A ~ 100001-1, Poppet Seat
B ~ 100056-1, Retaining Screw
C ~ 100058-1, Inlet Poppet
D ~ 102007-1, Outlet Poppet
E ~ 102008-1, Spring Retainer
F ~ 301009-1, Inlet Poppet housing
G ~ 400043-125, O-Ring
H ~ 400130-1, Check Valve Spring
I ~ 400034-2, O-Ring Lubricant
J ~ 100022-2, Outlet body - H₂O Jet Style

Not Shown:
K ~ 400216-1, Loctite 242 Lubricant

Includes:
A ~ 100001-1, Poppet Seat
B ~ 100056-1, Retaining Screw
C ~ 100058-1, Inlet Poppet
D ~ 102007-1, Outlet Poppet
E ~ 102008-1, Spring Retainer
F ~ 301009-1, Inlet Poppet housing
G ~ 400043-125, O-Ring
H ~ 400130-1, Check Valve Spring
I ~ 400034-2, O-Ring Lubricant
J ~ 100022-2, Outlet body - H₂O Jet Style

Not Shown:
K ~ 400216-1, Loctite 242 Lubricant
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<td><em>H2O Jet 2 Piece Poppet Check Valve Assembly</em></td>
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<td>301002-1</td>
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<td>301002-2</td>
<td>40K - 2.758 bar Check Valve Assembly</td>
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<td>100009-1</td>
<td>60K Check Valve Main Body</td>
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<td>100009-2</td>
<td>40K Check Valve Main Body</td>
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<td>302040-1</td>
<td>H2O Jet Check Valve Upgrade Kit</td>
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<td>100022-1</td>
<td>Check Valve Outlet Body</td>
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<tr>
<td>100022-2</td>
<td><em>H2O JET Style Check Valve Outlet Body</em></td>
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**Hydraulic Auto Bleed Down**

- **Repair Kit**
  - 40k & 60k

- **Assembly with Catcher**
  - 301028-1
  - Replaces 004694-1
  - Includes:
    - Seal Hoop, 100085-1 — E
    - O-Ring, 400042-008 — F
    - O-Ring, 400043-114 — G
    - O-Ring, 400070-908 — H
    - O-Ring, 400070-912 — I

- **Valve Assembly**
  - 301013-1
  - Replaces C-5841-1

- **1/2 of Valve Assembly**
  - 301013-2
  - Replaces C-2740-1

- **Catcher**
  - 301015-2
  - Replaces 005878-1

- **Catcher Body**
  - 100087-1
  - Replaces 005878-1

- **Piston**
  - 100130-1
  - Replaces B-8426-1

- **Piston Insert**
  - 100131-1
  - Replaces B-8428-1

- **3/8” x 1/2” JIC Bleed Down Valve Adapter**
  - 400008-5

- **Carbide Disc Bleed Down Valve**
  - 400083-1

- **SS Plug Bleed Down Valve Catcher**
  - 400081-6

- **125 Shaft Dia SST Bleed Down Valve Oil Seal**
  - 400033-1

- **Valve Adapter**
  - 400033-1
  - Replaces A-4241

- **Valve Housing**
  - 100132-1
  - Replaces B-8427-1

- **Seal Hoop, 100085-1 ~ E**
  - O-Ring, 400042-008 ~ F
  - O-Ring, 400043-114 ~ G
  - O-Ring, 400070-908 ~ H
  - O-Ring, 400070-912 ~ I

- **Buttress, 100081-1 ~ A**
  - Seal Poppet, 100082-1 — B
  - Poppet, 100083-2 — C
  - Poppet Landing, 100084-1 — D

- **Back-Up O-Ring, 400047-114 ~ J**
  - Not Shown:
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    - O-Ring Lubricant, 400034-2
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<td>60K: 4.137 bar</td>
<td>301023-1</td>
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Ceramic Piston Plunger
- 60k
- 40k

Piston & Plunger Hi-Load Assembly
- 60k
- 40k

Piston & Plunger Assembly
*Flow Style
- 60k
- 40k

End Bell Assembly
- Left 60k
- Right 60k
- Left 40k
- Right 40k

Plunger Retainer
- 60k
- 40k

Internal Inverted End Bell Snap Ring
- 60k
- 40k

End Bell Spacer
- 60k
- 40k

Rod Seal
- 60k
- 40k

Rod T-Seal
- 60k
- 40k
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<td>Cartridge Seal Kit</td>
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<td>301011-4</td>
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<td>Pump Service Tool Kit</td>
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Not Shown:
- Ring Compressor, 400001-1
- Tool Box, 400025-1
- Socket 1.58", 400002-1.625
- Torque Multiplier, 400001-1

Includes:
- Cylinder Wrench, 301027-2
- Assembly Bench, 391037-1
- Shift Pin Tool, 301038-1
- Seal Cartridge Tool, 100251-1
- HP Seal Installation Kit, 302015-3
- Bleed Down Valve Tool, 302016-1
- Blue Goop, 400001-1
### H2O Jet & Flow Compatible Parts

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**94k - Intensifier Parts**
Hi-Load Piston Assembly
94k Short Block
94k Long Block

Hi-Load Piston Seal Kit
94k Hi-Load 94k, 5"

Hydraulic Seal Kit
94k Hi-Load

End Bell Assembly
94k Short Block (Left)
94k Short Block (Right)
94k Long Block (Left)
94k Long Block (Right)

Hydraulic Cylinder
94k Short Block
94k Long Block

Replaces
020080-1
011304-1

Hi-Load Piston Assembly
391023-1
391023-2

Hi-Load Piston Seal Kit
392013-1

Hydraulic Seal Kit
392007-3

Hydraulic Seal Kit
392007-1

End Bell Assembly
391001-1-L
391001-1-R
391001-2-L
391001-2-R

End Bell Assembly
020072-1
020074-1
011301-1
011300-1

End Bell Assembly
013157-1

End Bell Assembly
013157-1

Replaces
019975-1
011291-1

Hydraulic Cylinder
190008-1
190008-2

Replaces
011304-1

Replaces
011304-1
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<td>C - 190034-1, Poppet Seat</td>
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<td>D - 192007-1, Outlet Poppet</td>
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<td>E - 192008-1, Spring Retainer</td>
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<td>F - 301009-1, Inlet Poppet Housing</td>
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**H2O JET & Flow Compatible Parts**

www.waterjetparts.com

Toll Free: 866-928-3753
Fax: 360-539-2440
94k Intensifier, Pump & HP Tubing - Tools

Pressure Loading Tool Kit
94k

End Bell Nut Coupler Tool
94k

Mini Valve Seal Install Tool
60k & 94k

Threading Die 1/4"
94k

Cone, Thread & Bend Kit for 100k Tubing
C & T:(1/4", 3/8", 9/16") B:(1/4" & 3/8")

Intensifier Service & Wrench Kit
94k

Intensifier Service Tool Kit
94k
H2O Jet & Flow Compatible Parts

Hi-Performance Air Actuator
N/C Assembly 301006-1
N/O Assembly 301006-2

Ultra II Air Actuator
N/C Assembly 301006-4
N/O Assembly 301006-5

Valve Body
Hi-Performance 100048-1
Legacy Threaded 100048-2

Valve Body
Ultra II 100048-3

HP Collar
Block 100040-1

HP Collar
Round 100040-2

HP Collar
Round 3 Bolt 100040-4

Replaces
001323-1
003840-1
006143-1
010104-1
006144-1
002895-1

www.waterjetparts.com
Toll Free: 866-928-3753 Fax: 360-539-2440
On/Off Valve Repair Kit
High Performance

302001-1

Includes:
Poppet Landing, 100059-1 – A
Poppet, 100060-1 – B
Poppet Seal, 100061-1 – C
Seal Butress, 100062-1 – D

On/Off Valve Repair Kit Extended Life
High Performance

302001-2

Includes:
Poppet Landing, 100059-1 – A
Extended Life Poppet, 100060-1-2 – B
Poppet Seal, 100061-1 – C
Seal Butress, 100062-1 – D

Valve Seal Retainer Insert
High Performance

301008-1

Includes:
Poppet Landing, 100059-1 – A
Extended Life Poppet, 100060-1-2 – B
Poppet Seal, 100061-1 – C
Seal Butress, 100062-1 – D

Air Actuator Repair Kit
High Performance & Ultra II

302017-1

Includes:
Breather Vent, 400066-1 – A
Air Actuator O-Ring, 400043-010 – B
O-Ring, 400043-147 – C

Breather Vent
1/8 NPT M, 2CFM, 7/16 H

400066-1

Air Hose Fitting
1/8" M

400064-1

Valve Seal Retainer Insert
Ultra II

301008-2

Includes:
Breather Vent, 400066-1 – A
Air Actuator O-Ring, 400043-010 – B
O-Ring, 400043-147 – C

Valve Seal Retainer Insert
High Performance

301008-1

Includes:
Breather Vent, 400066-1 – A
Air Actuator O-Ring, 400043-010 – B
O-Ring, 400043-147 – C

Seal Ejection Tool, 100104-1 – E
Seal O-Ring Dark Red, 400042-006 – F
O-Ring, 400043-014 – G
O-Ring Lubricant, 400034-2

Seal Ejection Tool, 100104-1 – F
Seal O-Ring Dark Red, 400042-007 – G
O-Ring, 400043-014 – H
O-Ring Lubricant, 400034-2

Seal Ejection Tool, 100104-1 – F
Seal O-Ring Dark Red, 400042-007 – G
O-Ring, 400043-014 – H
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O-Ring Lubricant, 400034-2

Seal Ejection Tool, 100104-1 – F
Seal O-Ring Dark Red, 400042-007 – G
O-Ring, 400043-014 – H

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O-Ring Lubricant, 400034-2

Seal Ejection Tool, 100104-1 – F
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O-Ring, 400043-014 – H

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Seal Ejection Tool, 100104-1 – F
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O-Ring, 400043-014 – H

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Seal Ejection Tool, 100104-1 – F
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O-Ring, 400043-014 – H

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O-Ring Lubricant, 400034-2

Seal Ejection Tool, 100104-1 – F
Seal O-Ring Dark Red, 400042-007 – G
O-Ring, 400043-014 – H

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O-Ring Lubricant, 400034-2

Seal Ejection Tool, 100104-1 – F
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O-Ring, 400043-014 – H

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**Includes:**

- A ~ 100059-2, Poppet Landing
- B ~ 100061-3, Poppet Seal
- C ~ 100150-2, Poppet Guide
- D ~ 100151-3, Backup Ring
- E ~ 100152-2, Poppet
- F ~ 490042-005, O-Ring Red
- G ~ 490043-014, Landing O-Ring
- H ~ 100003-2, Food Grade Lubricant

**Not Shown:**

- 400034-2, Food Grade Lubricant
Advantage EP 94k Mini Valve Assembly

- 391007-1 w/Standard Nozzle Body
- 391007-2 w/Water Only Nozzle Body & Nut
- 391007-3 w/Standard Water Only Nozzle Body & Nut

Advantage EP On/Off Valve Kit

*Flow Universal Valve (60k-94k) Compatible

- 392001-1
  - Seal Ejection Tool, 190104-1 ~ E
  - Seal O-Ring Red, 490042-005 ~ F
  - O-Ring, 400043-014 ~ G
  - Food Grade Lubricant, 400034-2
  - Poppet Landing, 190059-1 ~ A
  - Poppet, 190060-1 ~ B
  - Poppet Seal, 190061-1 ~ C
  - Seal Butress, 190062-1 ~ D

Advantage EP On/Off Valve Kit Extended Life

*Flow Universal Valve (60k-94k) Compatible

- 392001-1-2
  - Seal Ejection Tool, 190104-1 ~ E
  - Seal O-Ring Red, 490042-005 ~ F
  - O-Ring, 400043-014 ~ G
  - Food Grade Lubricant, 400034-2
  - Extended Life Poppet, 190060-1-2 ~ B
  - Poppet Seal, 190061-1 ~ C
  - Seal Butress, 190062-1 ~ D

Advantage EP Nozzle Body

- 190026-1 94k Standard
- 190026-4 94k Water Only

Advantage EP Valve Body

- 190048-1 94k

Advantage EP Gland Nut

- 190026-3 94k

Advantage EP Collar

- 190026-2 94k
**High Performance On/Off Valve Assemblies**

Hi-Performance Nozzle Body 301007-1
w/Short Stop Filter 301007-1-SSF

Low Mass Nozzle Body 301007-2
w/Short Stop Filter 301007-2-SSF

Hi-Velocity P-III Nozzle Body 301007-3
w/Short Stop Filter 301007-3-SSF

Hi-Velocity Extended P-III Nozzle Body 301007-3-X
w/Short Stop Filter 301007-3-X-SSF

Adjustable P-III Nozzle Body 301007-9
w/Short Stop Filter 301007-9-SSF

**Ultra II On/Off Valve Assemblies**

Hi-Performance Nozzle Body 301007-7
w/Short Stop Filter 301007-7-SSF

Low Mass Nozzle Body 301007-10
w/Short Stop Filter 301007-10-SSF

Hi-Velocity P-III Nozzle Body 301007-8
w/Short Stop Filter 301007-8-SSF

*To order your On/Off Valve Assembly with the 3 hole round collar block (100040-4) Please add a -4 to your part#. (Example: 301007-7-4 or 301007-7-4-SSF)*
The H2O JET Integral Diamond Eductor III consistently demonstrates superior performance and reduces operating cost when compared to competitive brand abrasive cutting heads.

- Up to 50% faster cutting - No lost time due to constant orifice replacement
- From 10 to 20 times greater service life
- Superior edge quality

- Dead-On Alignment
  The diamond orifice is imbedded, thus integral to the mixing chamber. The jet stream is precisely directed through the abrasive nozzle eliminating misalignment, over-torquing and stack up errors.

- Revolutionary Mixing Chamber Design
  H2O JET has redefined the concept of the “mixing chamber” with our coalescing plenum. The advanced coalescing plenum provides a more effective and more efficient abrasive feed. The result is no maintenance on the cutting head, maximum cutting power and ultimate performance.

- Faster Cutting Speed
  Precise alignment of the diamond orifice with the mixing tube allows maximum power to be delivered to the cutting surface. This extends the nozzle life and increases the cutting speed. H2O JET guarantees every Integral Diamond Eductor III for a minimum of *500 hours. (*500 hours or 4 months from ship date when used with Short Stop Filter)

- Reduced Operating Cost
  The integral diamond orifice reduces operating costs with faster cutting, extended nozzle life and dramatically reduced downtime. The H2O JET Integral Diamond Eductor III has demonstrated 1000+ cutting hours in the field for many applications.

**H2O JET Diamond Orifice**

The H2O JET Diamond orifice is integral to the cutting head and factory aligned for life. The result is up to 50% faster cutting speed and from 10 to 20 times greater service life.

**Mis-aligned Design**

This illustration of a competitive, mis-aligned design mount shows that debris as small as a single garnet particle can cause 0.025” jet stream mis-alignment resulting in premature mixing tube wear and decreased cutting speed and performance.
H2O Jet & Flow Compatible Parts

Integral Diamond Eductor
IDE™ III Single Port
.281” ID 301329-1-xx

IDE™ III Single Port with Short Stop Filter
.281” ID 301329-1-xx-SSF

.xx denotes orifice size: .004=04, .013=13

Integral Diamond Eductor
IDE™ III Dual Port
.281” ID 301329-2-xx

IDE™ III Dual Port with Short Stop Filter
.281” ID 301329-2-xx-SSF

.xx denotes orifice size: .004=04, .013=13

IDE™ III Cutting Head

High Velocity P-III Body
Single Port 301324-1-3-xx
Single Port w/Short Stop Filter 301324-1-3-xx-SSF
Dual Port 301324-2-3-xx
Dual Port w/Short Stop Filter 301324-2-3-xx-SSF

Adjustable High Velocity P-III Body
Single Port 301324-1-9-xx
Single Port w/Short Stop Filter 301324-1-9-xx-SSF
Dual Port 301324-2-9-xx
Dual Port w/Short Stop Filter 301324-2-9-xx-SSF

Extended High Velocity P-III Body
Single Port 301324-1-X-xx
Single Port w/Short Stop Filter 301324-1-X-xx-SSF
Dual Port 301324-2-X-xx
Dual Port w/Short Stop Filter 301324-2-X-xx-SSF

.xx denotes orifice size: .004=04, .013=13
94k Integral Diamond Eductor IDE™  
Flow Dynamic Compatible
391130-1-xx
391130-1-xx-SSF w/Short Stop Filter

(xx denotes orifice size: .004=04, .013=13)

94k IDE™ Clamp Nut Replacement
190172-1

IDE™ Abrasive Inlet Tube Replacement
391035-1

94k Clamp Nut Adapter Contour Follower
190172-2

94k Short Stop Filter Assembly 1/4"F x 1/4"M
391026-3

94k Advantage EP IDE™ Cutting Head Assembly
391124-1-xx

(xx denotes orifice size: .010=10, .015=15)
# H2O Jet & Flow Compatible Parts

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Model</th>
<th>Part Number</th>
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<tr>
<td>IDE™ III Retaining Collet</td>
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<td>Clamp Nut</td>
<td>IDE™ III</td>
<td>100172-1</td>
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<td>Abrasive Inlet Tube</td>
<td>IDE™ III</td>
<td>391035-1</td>
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<td>Splash Guard</td>
<td>IDE™ III</td>
<td>400222-1</td>
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<tr>
<td>IDE™ III Dynamic Contour Follower Option</td>
<td>P-V to H2O Adapter</td>
<td>100167-2</td>
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<tr>
<td>JE to IDE™ III Adapter</td>
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<tr>
<td>Maxjet 5 to IDE™ III Adapter (Tilt-a-Jet Only)</td>
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<tr>
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<tr>
<td>KMT to IDE™ III Adapter</td>
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**www.waterjetparts.com**

Toll Free: 866-928-3753  Fax: 360-539-2440
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<th>Dimensions</th>
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<tbody>
<tr>
<td>301026-3</td>
<td>Short Stop Filter W/Adapter Assembly</td>
<td>40k, 60k, 94k</td>
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<tr>
<td>301026-1</td>
<td>Short Stop Filter Assembly</td>
<td></td>
<td>Coned Insert 3/8&quot;</td>
</tr>
<tr>
<td>301026-2</td>
<td>Short Stop Filter Assembly</td>
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<td>3/8&quot; x 3/8&quot;M</td>
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<tr>
<td>301026-4</td>
<td>Short Stop Filter Body w/Insert</td>
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<td>1/4&quot; x 3/8&quot;M</td>
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<tr>
<td>301026-6</td>
<td>Short Stop Filter Body w/Insert</td>
<td></td>
<td>1/4&quot; x 1/4&quot;M</td>
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<tr>
<td>100192-1</td>
<td>Short Stop Adapter Insert</td>
<td></td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>100192-2</td>
<td>Short Stop Adapter Insert</td>
<td></td>
<td>1/4&quot;</td>
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<tr>
<td>190192-1</td>
<td>Short Stop Adapter Insert</td>
<td>94k</td>
<td>1/4&quot;</td>
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<td>400096-1</td>
<td>Short Stop Filter (40k, 60k &amp; 94k)</td>
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<td>.006&quot;</td>
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<td>100157-1</td>
<td>Short Stop Adapter Body</td>
<td>3/8&quot; x 3/8&quot;M</td>
<td>1/4&quot; x 3/8&quot;M</td>
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<td>1/4&quot; x 1/4&quot;M</td>
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<tr>
<td>190157-2</td>
<td>Short Stop Adapter Body</td>
<td>94k, 1/4&quot; x 1/4&quot;M</td>
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<tr>
<td>391026-3</td>
<td>94k Short Stop Filter Assembly</td>
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<td>301010-1</td>
<td>Inline Filter Assembly</td>
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<td>1/4&quot;</td>
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<td>3/8&quot;</td>
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<td>9/16&quot;</td>
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<td>000806-1</td>
<td>Inline Filter Housing</td>
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<td>Inline Filter Screen</td>
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### H2O Jet & Flow Compatible Parts

**The Edge™ Cutting Head**
- w/ Removable P-III
  (Includes one P-III Ruby .010-.014 orifice Sizes)
  - 301050-1-xx

**P-III Nozzle Nut**
- 100036-1
  - Replaces B-2861-1

**Hi-Performance Nozzle Nut**
- 100038-1
  - Replaces B-5330-1

**Low Mass Nozzle Nut**
- 100039-1
  - Replaces 006146-1

**Nozzle Body Upgrade Kit**
- Low Mass to H2O Hi-Performance
  - 302009-1

**Adjustable P-III Nozzle Body**
- Assembly 4.33”
  - 301099-1
  - Nozzle Body
    - 100027-1
  - Collar
    - 100027-2
  - Gland Nut
    - 100027-3

**P-III Nozzle Body**
- Hi-Velocity 4.33”
  - 100026-3
  - Extended, Hi-Velocity 6.59”
  - 100026-4

**Hi-Performance Nozzle Body**
- Water Only 5.5”
  - 100037-1

**Low Mass Nozzle Body**
- Water Only 5.5”
  - 100046-1
  - Replaces 006145-1

**Mini Valve Nozzle Body**
- 60k Mini Valve to IDE™
  - 100026-6
### H2O / Flow Style Focusing Tubes

<table>
<thead>
<tr>
<th>OD/ID</th>
<th>Material</th>
<th>Code</th>
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<tbody>
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<td>.020&quot; OD</td>
<td>7.14 mm ID</td>
<td>76mm long</td>
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<tr>
<td>.020&quot; ID</td>
<td>3&quot; long</td>
<td>0.51mm ID, 76mm long</td>
</tr>
<tr>
<td>012680-30-30</td>
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<td>012680-30-40</td>
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<td>100100-50-4</td>
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### Flow Style Focusing Tubes with Inlet Ring & Washer

<table>
<thead>
<tr>
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<th>Material</th>
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<tr>
<td>.020&quot; OD</td>
<td>7.14 mm ID</td>
<td>76mm long</td>
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<tr>
<td>.020&quot; ID</td>
<td>3&quot; long</td>
<td>0.51mm ID, 76mm long</td>
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<tr>
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<tr>
<td>010460-50-40</td>
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<td>100100-50-4-500</td>
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</tbody>
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### JE Style Focusing Tubes

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<tr>
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<tbody>
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<td>.030&quot; OD</td>
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</tr>
<tr>
<td>.030&quot; ID</td>
<td>3&quot; long</td>
<td>0.76mm ID, 76mm long</td>
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<tr>
<td>30648, 101159</td>
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<td>100101-30-3</td>
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<td>30649, 36769</td>
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### KMT Style Focusing Tubes

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<td>.030&quot; ID</td>
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<td>0.76mm ID, 76mm long</td>
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* Please Call to inquire about Special Order sizes
The (-xx) represents the orifice size. For example if you need a .004” then replace the -xx with -04, a 0.13” with a -13 etc.
The H2O JET orifices are manufactured for specific uses; Sapphires are designed for Water Only & Rubies are designed for Abrasive Only.
*Diamonds are warrantied to last a minimum of 500 hours, provided the user follows the H2O JET warranty requirements.
| Orifice Assemblies - 40K, 60K & 94K |

**P-III Nozzle Assembly**
- Diamond: 201501-xx
- Ruby: 203501-xx

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<td>012469-xx</td>
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**P-II-Step Nozzle Assembly**
- Diamond: 201601-xx
- Sapphire: 202601-xx
- Ruby: 203601-xx

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<td>D-5070-xx</td>
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<td>001821-xx</td>
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**JE P-II T-Mount Nozzle Assembly**
- Diamond: 201920-xx
- Ruby: 203920-xx

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**P-V Nozzle Assembly (ECL)**
- Diamond: 201940-xx
- Ruby: 203940-xx

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<td>014155-xx</td>
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<td>014201-xx</td>
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**BLAST Nozzle Assembly**
- Ruby: 203950-xx

**Advantage EP P-IV 94K Nozzle Assembly**
- Diamond: 291502-xx
- Ruby: 293101-xx

<table>
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<td>041759-xx</td>
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<td>012469-xx</td>
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The (-xx) represents the orifice size. For example if you need a .004" then replace the –xx with -04, a 0.13" with a -13 etc. The H2O JET orifices are manufactured for specific uses; Sapphires are designed for Water Only & Rubies are designed for Abrasive Only.

*Diamonds are warrantied to last a minimum of 500 hours, provided the user follows the H2O JET warranty requirements.*
# WATER FLOW RATE in Gallons per Minute (GPM) as a function of Pressure (PSI) and Orifice Size

## Water Flow Rate Chart

<table>
<thead>
<tr>
<th>Pressure PSI</th>
<th>Orifice Size</th>
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<tbody>
<tr>
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<td>0.003</td>
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<tr>
<td>30,000</td>
<td>0.03</td>
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<tr>
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<td>50,000</td>
<td>0.04</td>
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<td>55,000</td>
<td>0.04</td>
</tr>
<tr>
<td>60,000</td>
<td>0.05</td>
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<table>
<thead>
<tr>
<th>Pressure PSI</th>
<th>Orifice Size</th>
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<tbody>
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<td>0.013</td>
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<tr>
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<td>0.61</td>
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<td>55,000</td>
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<td>60,000</td>
<td>0.86</td>
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<table>
<thead>
<tr>
<th>Pressure PSI</th>
<th>Orifice Size</th>
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## Pump Capacities*

<table>
<thead>
<tr>
<th>Pump Capacities*</th>
<th>GPM 60000</th>
<th>Max Orifice</th>
<th>GPM 94000</th>
<th>Max Orifice</th>
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<td>10HP</td>
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<td>0.007</td>
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<td>15HP</td>
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<td>0.60</td>
<td>0.010</td>
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<tr>
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*Pump will not be able to stroke fast enough to maintain pressure for larger orifices.
### H2O Jet & Flow Compatible Parts

**Filter Cartridge 10” 222/Flat Cap Style**

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<tr>
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<th>Micron</th>
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<td>400023-1-10S</td>
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**Filter Cartridge 10”**

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<thead>
<tr>
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<tbody>
<tr>
<td>400023-1-1</td>
<td>1 Micron</td>
</tr>
<tr>
<td>400023-1-10</td>
<td>10 Micron</td>
</tr>
</tbody>
</table>

**Filter Cartridge 10” Pleated**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>400023-1-1P</td>
<td>1 Micron</td>
</tr>
<tr>
<td>400023-1-45P</td>
<td>.45 Micron</td>
</tr>
</tbody>
</table>

**Filter Cartridge 20”**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>400023-20-1P</td>
<td>1 Micron</td>
</tr>
<tr>
<td>400023-20-45P</td>
<td>.45 Micron</td>
</tr>
</tbody>
</table>

**Hydraulic Return Filter**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>400035-1</td>
<td>9X</td>
</tr>
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**Oil Filter Cartridge**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>606210-6-F</td>
<td>10-50hp Pump, 6” 10 Micron</td>
</tr>
<tr>
<td>606210-9-F</td>
<td>100hp Pump, 9” 10 Micron</td>
</tr>
</tbody>
</table>

**Filter Element**

<table>
<thead>
<tr>
<th>Item Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>606199-20-9</td>
<td>20 Micron (100hp)</td>
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</table>

**Filter Element**

<table>
<thead>
<tr>
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<th>Micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>606199-20</td>
<td>20 Micron (50hp)</td>
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</table>

**Strainer Tank Filter**

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<tr>
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<tbody>
<tr>
<td>606115-40</td>
<td>2.50NPT</td>
</tr>
<tr>
<td>606115-20</td>
<td>1.25NPT</td>
</tr>
</tbody>
</table>

---

**Filters - 40k, 60k & 94k**

[www.waterjetparts.com](http://www.waterjetparts.com)

**Toll Free:** 866-928-3759  **Fax:** 360-539-2440
### Coning Threading & Bending Kit for HP Tubing 1/4” 3/8” 9/16”

<table>
<thead>
<tr>
<th>Kit Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete Kit</td>
<td>302025-1</td>
</tr>
<tr>
<td>94k Complete Kit</td>
<td>392025-1</td>
</tr>
</tbody>
</table>

#### Standard Kit Includes:
- 302024-1, Threading Kit
- 302026-1, Coning Kit
- 302027-1, Bending Kit
- 400350-1, Tool Box

#### 94k Kit Includes:
- 392024-1, Threading Kit (94k)
- 302026-1, Coning Kit
- 302027-1, Bending Kit
- 400350-1, Tool Box

---

### Threading Kit
1/4” 3/8” 9/16”

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>302024-1</td>
</tr>
<tr>
<td>392024-1</td>
</tr>
</tbody>
</table>

Includes:
- A – 100280-1, 1/4” Bushing
- B – 100280-2, 3/8” Bushing
- C – 100280-3, 9/16” Bushing
- D – Threading Hand Tool
- E – 400118-1, 1/4” Die
- F – 400118-2, 3/8” Die
- G – 400118-3, 9/16” Die

---

### Coning Kit
1/4” 3/8” 9/16”

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>302026-1</td>
</tr>
</tbody>
</table>

Includes:
- A – 400029-2, 1/4” Blade
- B – 400029-3, 3/8” Blade
- C – 400029-4, 9/16” Blade
- D – Coning Hand Tool
- E – 400029-5, 1/4” Collet
- F – 400029-6, 3/8” Collet
- G – 400029-7, 9/16” Collet
- H – 400029-8, Deburring Tool

---

### Bending Kit
1/4” 3/8”

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>302027-1</td>
</tr>
</tbody>
</table>

Includes:
- A – 100281-1, 1/4” Tube Holder
- B – 100281-2, 3/8” Tube Holder
- C – Bending Hand Tool
- D – 100282-1, 1/4” Bending Guide
- E – 100282-2, 3/8” Bending Guide

---

### Power Coning Tool H2O Jet
1/4”

<table>
<thead>
<tr>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td>301064-1</td>
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<tr>
<td>301064-2</td>
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<td>301064-3</td>
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3/8”

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>301063-1</td>
</tr>
<tr>
<td>301063-2</td>
</tr>
<tr>
<td>301063-3</td>
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9/16”

<table>
<thead>
<tr>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td>302026-3</td>
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</tbody>
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Power Coning Kit (1/4”, 3/8” & 9/16”)

---

### Power Threading Tool H2O Jet
1/4”

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<td>301063-1</td>
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<tr>
<td>301063-2</td>
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<td>301063-3</td>
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3/8”

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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<tr>
<td>301063-2</td>
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<td>301063-3</td>
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9/16”

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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Power Threading Kit (1/4”, 3/8” & 9/16”)

---

### Replacement Threading Die
1/4”

<table>
<thead>
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<tr>
<td>400118-1</td>
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<tr>
<td>490118-1</td>
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<tr>
<td>400118-2</td>
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<tr>
<td>400118-3</td>
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94k - 1/4”

<table>
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<tr>
<td>490118-1</td>
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<td>400118-2</td>
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<td>400118-3</td>
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3/8”

<table>
<thead>
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</tr>
<tr>
<td>400118-2</td>
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<td>400118-3</td>
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9/16”

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>400118-1</td>
</tr>
<tr>
<td>400118-2</td>
</tr>
<tr>
<td>400118-3</td>
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</table>

### Replacement Coning Bit
1/4”

<table>
<thead>
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<tr>
<td>400136-1</td>
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<tr>
<td>400136-2</td>
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<td>400136-3</td>
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</table>

3/8”

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>400136-1</td>
</tr>
<tr>
<td>400136-2</td>
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<td>400136-3</td>
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9/16”

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>400136-1</td>
</tr>
<tr>
<td>400136-2</td>
</tr>
<tr>
<td>400136-3</td>
</tr>
</tbody>
</table>

### Deburring Tool

- Tool
- Replacement Blade
H2O Jet Tools

Intensifier & Pump - Tools

**Pump Service Tool Kit**
- 60k
- 60k w/Programmer
- 40k
- 40k w/Programmer
- EF 75hp - 150hp
- EF 75hp-150hp w/Programmer
- 94k

**Intensifier Wrench Tool Kit**
- 60k & 40k
- 94k

**Sun Programmer Handheld**
- Module
- Cable Interface

**HP Seal Installation Tool Kit**
- 60k
- 40k
- EF 75hp-150hp - 60k

**Mini Valve Seal Install Tool**
- 60k & 94k

**Intensifier End Cap Torque Tool**
- 60k & 40k

**Rod Oil Seal Tool**
- Install & Removal

**Digital Microscope**
- EHE V1 USB Plus

**Replaces**
- 019623-1

**302018-1**
- Intensifier & Pump - Tools

**302018-1-2**
- Intensifier & Pump - Tools

**302018-2**
- Intensifier & Pump - Tools

**302018-2-2**
- Intensifier & Pump - Tools

**302018-4**
- *See Pg10 for details

**302018-4-2**
- *See Pg10 for details

**392018-1**
- *See Pg.14 for details

**40k 302018-2 Kits Includes:**
- HP Cylinder Wrench, 301027-1 – A
- Assembly Bench, 301037-1 – B
- Torque Tool, 302015-1 – C
- HP Seal Installation Kit, 302015-2 – D
- Bleed Down Valve Tool, 302016-1 – E
- Blue Goop, 400001-1 – F
- Spanner Wrench, 400025-1 – G
- Ring Compressor, 400131-1 – H
- Granite Lapping Block, 400026-1 – J
- Lapping Abrasive 320 Grit, 400026-320-5 – K
- Lapping Abrasive 500 Grit, 400026-600-5 – L

**60k 302018-1 Kits Includes:**
- HP Cylinder Wrench, 301027-1 – A
- Assembly Bench, 301037-1 – B
- Torque Tool, 302015-1 – C
- HP Seal Installation Kit, 302015-2 – D
- Bleed Down Valve Tool, 302016-1 – E
- Blue Goop, 400001-1 – F
- Granite Lapping Block, 400026-1 – J
- Lapping Abrasive 320 Grit, 400026-320-5 – K
- Lapping Abrasive 500 Grit, 400026-600-5 – L
- Rod Oil Tool, 100240-1 – M

**302018-3**
- *See Pg.14 for details

**392018-3**
- *See Pg.14 for details

**Socket 15/16", 400802- 937**
**Socket 1-1/16", 400802-1.062**
**Socket 3/16" Hex, 400803-312**
**Socket 5/16" Hex, 400803-312**
**Hammer 31lb, 400804-1**
**Retaining Ring Plier Set, 400805-1**
**10” Extension Bar, 400807-1**
**Hex Key Set, 400808-1**
**Tourque Wrench 1/4", 400809-1**
**Hook & Pick Set, 400810-1**

**Socket 23" Intensifier Wrench, 400350-3**
**Wrench 5/15", 400801-.312**
**Wrench 9/16", 400801-.562**
**Wrench 7/8", 400801-.875**
**Wrench 1", 400801-1.000**
**Wrench 1-1/16", 400801-1.062**
**Wrench 1-1/4", 400801-1.250**
**Wrench1-1/2", 400801-1.500**

**60k & 40K Kits Includes:**
- Spanner Wrench, 400025-1
- 23” Intensifier Wrench, 400350-3
- Wrench 9/16”, 400801- .562
- Wrench 1”, 400801-1.000
- Wrench 1-1/16”, 400801-1.062
- Wrench 1-1/4”, 400801-1.250
- Wrench1-1/2”, 400801-1.500
<table>
<thead>
<tr>
<th>Part</th>
<th>40k-60k</th>
<th>100k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gland Nut, HP</td>
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</tr>
<tr>
<td>1/4”</td>
<td>400005-1</td>
<td>490005-1</td>
</tr>
<tr>
<td>3/8”</td>
<td>400005-2</td>
<td>490005-2</td>
</tr>
<tr>
<td>9/16”</td>
<td>400005-3</td>
<td>490005-3</td>
</tr>
<tr>
<td>Anti Vibration Collet &amp; Gland, HP</td>
<td>400036-1</td>
<td>A-0689-1</td>
</tr>
<tr>
<td>1/4”</td>
<td>400036-2</td>
<td>A-0689-2</td>
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<tr>
<td>Collar, HP</td>
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<tr>
<td>1/4”</td>
<td>400006-1</td>
<td>490006-1</td>
</tr>
<tr>
<td>3/8”</td>
<td>400006-2</td>
<td>490006-2</td>
</tr>
<tr>
<td>9/16”</td>
<td>400006-3</td>
<td>490006-3</td>
</tr>
<tr>
<td>Plug, HP</td>
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<td></td>
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<tr>
<td>1/4”</td>
<td>400007-1</td>
<td>490007-1</td>
</tr>
<tr>
<td>3/8”</td>
<td>400007-2</td>
<td>490007-2</td>
</tr>
<tr>
<td>9/16”</td>
<td>400007-3</td>
<td>490007-3</td>
</tr>
<tr>
<td>Coned Insert, HP</td>
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<td></td>
</tr>
<tr>
<td>1/4”</td>
<td>400013-1</td>
<td>490013-1</td>
</tr>
<tr>
<td>3/8”</td>
<td>400013-2</td>
<td>490013-2</td>
</tr>
<tr>
<td>9/16”</td>
<td>400013-3</td>
<td>490013-3</td>
</tr>
<tr>
<td>Adapter, HP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” M x 1/4” F, 2 Pcs.</td>
<td>400008-1</td>
<td>A-0792</td>
</tr>
<tr>
<td>Adapter, HP</td>
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<tr>
<td>3/8” M x 1/4” F, One Pcs.</td>
<td>400008-1-1</td>
<td></td>
</tr>
<tr>
<td>Adapter, HP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4” M x 3/8” F</td>
<td>400008-2</td>
<td></td>
</tr>
<tr>
<td>Adapter, HP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” M x 9/16” F</td>
<td>400008-3</td>
<td></td>
</tr>
<tr>
<td>Adapter, HP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” F x 9/16” M</td>
<td>400008-4</td>
<td>A-4691</td>
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<tr>
<td>Adapter, HP</td>
<td></td>
<td></td>
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<tr>
<td>3/8” M x 1/2” JIC</td>
<td>400008-5</td>
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<td></td>
</tr>
<tr>
<td>9/16” M x 1/4” F</td>
<td>400008-8</td>
<td></td>
</tr>
<tr>
<td>Adapter, HP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8” F x 9/16” F</td>
<td>400008-6</td>
<td></td>
</tr>
<tr>
<td>1/4” F x 3/8” F</td>
<td>400008-9</td>
<td></td>
</tr>
<tr>
<td>1/4” F x 9/16” F</td>
<td>400008-12</td>
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<td>Straight Coupling, HP</td>
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<tr>
<td>1/4”</td>
<td>400011-1</td>
<td>490011-1</td>
</tr>
<tr>
<td>3/8”</td>
<td>400011-2</td>
<td>490011-2</td>
</tr>
<tr>
<td>9/16”</td>
<td>400011-3</td>
<td>490011-3</td>
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</table>

Replaces:
- A-0689-1
- A-0689-2
- A-2867
- A-2839
- A-3951
- A-0784-2
- A-0784-3
- A-0792
- A-0792-1
- A-4691
- A-0780-2

www.waterjetparts.com

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Fax: 360-539-2440
<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>400007-1</td>
<td>1/4&quot; HP Tubing</td>
<td>3&quot; Long</td>
</tr>
<tr>
<td>400007-2</td>
<td>3/8&quot; HP Tubing</td>
<td>4&quot; Long</td>
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<tr>
<td>400007-3</td>
<td>9/16&quot; HP Tubing</td>
<td>6&quot; Long</td>
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<td>400007-4</td>
<td>100k</td>
<td>8&quot; Long</td>
</tr>
<tr>
<td>400007-5</td>
<td>100k</td>
<td>11&quot; Long</td>
</tr>
</tbody>
</table>

**1/4" HP Tubing**
- Random 20'+ (316 SS)
- Exact 20' (316 SS)
- Random 20+' (304 SS)
- Exact 20' (304 SS)
- Random 20'+ (100k UHP)

**3/8" HP Tubing**
- Random 20'+ (316 SS)
- Exact 20' (316 SS)
- Random 20+' (304 SS)
- Exact 20' (304 SS)
- Random 20'+ (100k UHP)

**9/16" HP Tubing**
- Random 20'+ (316 SS)
- Random 20+' (304 SS)
- Exact 20' (304 SS)
- Random 20'+ (100k UHP)

**HP Tubing Clamp Set**
- 1/4"
- 3/8"
- 9/16"
### H2O Jet & Flow Compatible Parts

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td><strong>Blue Anti Galling Lubricant</strong></td>
<td>2 oz. Tube</td>
<td>400001-1</td>
</tr>
<tr>
<td><strong>O-Ring Lubricant Food Grade</strong></td>
<td>3 oz. Tube</td>
<td>400015-2</td>
</tr>
<tr>
<td><strong>O-Ring Lubricant</strong></td>
<td>2 grams</td>
<td>400034-1</td>
</tr>
<tr>
<td><strong>Food Grade Lubricant</strong></td>
<td>2 grams</td>
<td>400034-2</td>
</tr>
<tr>
<td><strong>Coning &amp; Threading Oil</strong></td>
<td>Sulflo #1</td>
<td>400120-1</td>
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<tr>
<td><strong>Jackbolt Lubricant</strong></td>
<td>16 oz. Can</td>
<td>400001-2</td>
</tr>
<tr>
<td><strong>Silver Thread Lubricant</strong></td>
<td>Anti-Seize 4 oz. Can</td>
<td>400001-3</td>
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<tr>
<td><strong>Hydraulic Oil Pressure Guage</strong></td>
<td>Rear Port</td>
<td>606050-5</td>
</tr>
<tr>
<td></td>
<td>Bottom Port</td>
<td>606050-6</td>
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<tr>
<td><strong>Water Guage</strong></td>
<td>80k PSI</td>
<td>400126-1</td>
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<tr>
<td></td>
<td>100k PSI</td>
<td>490126-1</td>
</tr>
<tr>
<td></td>
<td>100k PSI, .25HP, 4.25”</td>
<td>490126-2</td>
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<tr>
<td><strong>Hydraulic Relief Valve</strong></td>
<td>Side Mount, Adjustable</td>
<td>400076-1</td>
</tr>
<tr>
<td></td>
<td>Side Mount, Tamper Proof</td>
<td>400096-2</td>
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Advantage Pump Maintenance Kits

- **302022-1**: 60k
- **302022-2**: 40k

<table>
<thead>
<tr>
<th>Kits</th>
<th>60k</th>
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</thead>
<tbody>
<tr>
<td>Bleed Down Repair Kit, 302008-1</td>
<td>- D</td>
</tr>
<tr>
<td>Hi-Load Piston Ring Kit, 302013-1</td>
<td>- E</td>
</tr>
<tr>
<td>Blue Goop, 400001-1</td>
<td>- F</td>
</tr>
<tr>
<td>10mic. Filter Cartridge(x2), 400023-1-10</td>
<td>- G</td>
</tr>
<tr>
<td>1mic. Filter Cartridge(x2), 400023-1-15</td>
<td>- H</td>
</tr>
</tbody>
</table>

Advantage EP 94k Pump Maintenance Kit

- **392022-1**: 94k

<table>
<thead>
<tr>
<th>Kits</th>
<th>94k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hi-Load Piston Ring Kit, 392013-1</td>
<td>- E</td>
</tr>
<tr>
<td>Silver Thread Lubricant, 400001-3</td>
<td>- F</td>
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<tr>
<td>10mic. Filter Cartridge(x2), 400023-1-1</td>
<td>- G</td>
</tr>
<tr>
<td>1mic. Filter Cartridge(x2), 400023-1-10</td>
<td>- H</td>
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</table>

SMP Pump Maintenance Kits

- **302022-3**: 60k
- **302022-4**: 40k

<table>
<thead>
<tr>
<th>Kits</th>
<th>60k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bleed Down Repair Kit, 302008-1</td>
<td>- D</td>
</tr>
<tr>
<td>Hi-Load Piston Ring Kit, 302013-1</td>
<td>- E</td>
</tr>
<tr>
<td>Blue Goop, 400001-1</td>
<td>- F</td>
</tr>
<tr>
<td>10mic. Filter Cartridge, 400023-1-10</td>
<td>- G</td>
</tr>
<tr>
<td>1mic. Filter Cartridge, 400023-1-1</td>
<td>- H</td>
</tr>
<tr>
<td>6mic. Oil Filter, 606210-6-F</td>
<td>- I</td>
</tr>
</tbody>
</table>

EF 1.5 GPM Pump Maintenance Kit

- **302022-5**: 60k

<table>
<thead>
<tr>
<th>Kits</th>
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</thead>
<tbody>
<tr>
<td>Blue Goop, 400001-1</td>
<td>- E</td>
</tr>
<tr>
<td>10mic. Filter Cartridge(x2), 400023-1-15</td>
<td>- F</td>
</tr>
<tr>
<td>1mic. Filter Cartridge(x2), 400023-1-10</td>
<td>- G</td>
</tr>
<tr>
<td>10mic. Filter Cartridge, 606210-9-F</td>
<td>- H</td>
</tr>
<tr>
<td>On/Off Valve Repair Kit, 302001-1</td>
<td>- I</td>
</tr>
</tbody>
</table>

Chiller 50HP 41,000 BTU

- **700040-50**: 480v 3ph, 1/2" NPT 4GPM

Chiller 100HP 98,000 BTU

- **700040-100**: 480v 3ph, 3/4" NPT 8GPM

Attenuator Assembly

- **301025-1**: 2 Liter
- **301025-5**: 1 Liter
- **391025-1**: 94k - 1.1 Liter

AKG Heat Exchanger

- **606045-2**: 40 Plate
- **606045-3**: 20 Plate
- **606045-5**: 10 Plate
H2O Jet & Flow Compatible Parts

Abrasive Systems

Gravity Abrasive Meter
Disk Metered
700004-2

Rubber Bumper
Abrasice Metering Valve
400094-1
Replaces A-11073

Bulk Hopper
6.5 cu. ft. W/Sight Glass
700002-1
6.5 cu. ft. W/Level Sensors
700002-2

Abrasive Feed Kit
Bulk Hopper, Gravity Meter & Feed Hose
302033-1

Includes:
A ~ 606116-1, Abrasive Feed Hose
B ~ 700000-1, Bulk Hopper
C ~ 700004-2, Gravity Meter
D ~ 700005-1, Bulk Feeder Hose

Abrasive Feed Hose
3/8” OD, 1/4” ID Clear (sold per ft.)
606116-1
3/8” OD, 3/16” ID Clear (sold per ft.)
606116-2

Bulk Feeder Hose
3/4” Clear PVC Braided (sold per ft.)
700005-1
H2O JET set the standard with the the Advantage® Pump series. This industrial workhorse provides the best solution to your waterjet needs and is ideal for both water-only & abrasive applications. The Advantage® Pump maintains maximum pressure and flow rate with the lowest pressure fluctuation throughout the complete Ultra High Pressure range of cutting parameters ensuring minimal downtime and increased productivity.

**INTENSIFIER MODELS**
H100D: Dual intensifier, 100 hp motor  
H50R: Redundant, two intensifiers, 50 hp motor  
H50S: Single intensifier, 50 hp motor

**Advantage® Pump Features**
1) Six models supporting orifice sizes up to .025” (Flow rate chart on page 29)  
2) Up to 2 gmp flow rate at 60,000 psi  
3) Ergonomic, accessible design with removable doors and covers.  
4) Consistant maximum pressure with minimum pressure fluctuation.  
5) Quiet operation, less that 80db  
6) User friendly operator interface with touch screen controls  
7) Motor Starter included (Optional Wye-Delta)  
8) Superior Reliability

**Additional Options:**
* 60K psi  
* 40K psi  
* Electric Shift Intensifiers  
* Mechanical Shift Intensifiers  
* Remote Control with Start-Stop, High-Low Pressure and E-Stop features  
* Wye-Delta Starter

<table>
<thead>
<tr>
<th>Specifications</th>
<th>H100D</th>
<th>H50S or R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensifiers</td>
<td>Dual</td>
<td>Single or Redundant</td>
</tr>
<tr>
<td>Max Op Pressure</td>
<td>60,000 psi (4150 bar)</td>
<td>60,000 psi (4150 bar)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>2 gpm (7.6 L/min)</td>
<td>1 gpm (3.8 L/min)</td>
</tr>
<tr>
<td>Max orifice Size</td>
<td>.020” (.508 mm)</td>
<td>.014” (.36 mm)</td>
</tr>
<tr>
<td>Horsepower</td>
<td>100 hp (74.57 kw)</td>
<td>50 hp (37.29 kw)</td>
</tr>
<tr>
<td>Hydraulic Res Capacity</td>
<td>80 gal (302.8 L/min)</td>
<td>80 gal (302.8 L/min)</td>
</tr>
<tr>
<td>Cooling Water Flow</td>
<td>3-5 gpm (11.4-20 L/min)</td>
<td>3-5 gpm (11.4-20 L/min)</td>
</tr>
<tr>
<td>Length</td>
<td>79” (201 cm)</td>
<td>79” (201 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>49” (124.5 cm)</td>
<td>49” (124.5 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>51” (129.5 cm)</td>
<td>51” (129.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>4000 lb (1814 kg)</td>
<td>3500 lb (1588 kg)</td>
</tr>
</tbody>
</table>
H2O JET’s Skid Mount Pumps are high performance pumps designed with features that enhance operation and cutting effectiveness, including a low inlet water pressure safety switch (30 psi), three phase motor, manual pressure control, and an electrical junction box for convenient maintenance. The SMP delivers the same outstanding performance as our Advantage® pumps. Removal of the framing option creates a lower cost, yet the high performance of the Advantage® line is maintained.

**SKID MOUNT PUMP FEATURES**
1. Low inlet water pressure safety switch (30 psi)
2. Return line oil filter with service indicator
3. Hi-temp/low level oil safety switch
4. Oil/water heat exchanger
5. Variable displacement axial piston pump
6. Auto bleed down valve
7. Sealed base captures oil in case of a major spill
8. Rugged powder-coated finish
9. Epoxy coated oil tank
10. Vibration isolation pads on the motor

**INTENSIFIER MODELS**
- **SMP-10**: Single intensifier, 10 hp motor
- **SMP-15**: Single intensifier, 15 hp motor
- **SMP-30**: Single intensifier, 30 hp motor
- **SMP-50**: Single intensifier, 50 hp motor

**OPTIONS**
- Basic control for Pump On/Off & E-stop
- Air/oil heat exchanger (oil temp controlled)
- Electronic pressure control
- Continuous recirculation pump for cooling system
- Mechanical shift
- PLC based controls with user friendly operator interface
- Remote start/stop, E-Stop, Hi/Low Panel
- Cooling water solenoid valve (oil temp controlled)
- 40,000 PSI Intensifier
- Single phase motor
- Pump Cover
- Water Booster Pump

<table>
<thead>
<tr>
<th>Specifications</th>
<th>SMP-10</th>
<th>SMP-15</th>
<th>SMP-30</th>
<th>SMP-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Op Pressure</td>
<td>60,000 psi (4150 bar)</td>
<td>60,000 psi (4150 bar)</td>
<td>60,000 psi (4150 bar)</td>
<td>60,000 psi (4150 bar)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>0.24 gpm (0.91 L/min)</td>
<td>0.31 gpm (1.17 L/min)</td>
<td>0.6 gpm (2.27 L/min)</td>
<td>1.0 gpm (3.81 L/min)</td>
</tr>
<tr>
<td>Max orifice Size</td>
<td>.007” (.178 mm)</td>
<td>.008” (.203 mm)</td>
<td>.011” (.28 mm)</td>
<td>.014” (.36 mm)</td>
</tr>
<tr>
<td>Horsepower</td>
<td>10 hp (7.3 kw)</td>
<td>15 hp (11 kw)</td>
<td>30 hp (22 kw)</td>
<td>50 hp (37 kw)</td>
</tr>
<tr>
<td>Hydraulic Res Capacity</td>
<td>25 gal (95 L)</td>
<td>25 gal (95 L)</td>
<td>35 gal (132 L)</td>
<td>50 gal (189 L/min)</td>
</tr>
<tr>
<td>Cooling Water Flow</td>
<td>2-4 gpm (7-15 L/min)</td>
<td>2-4 gpm (7-15 L/min)</td>
<td>3-5 gpm (11.4-20 L/min)</td>
<td>3-5 gpm (11.4-20 L/min)</td>
</tr>
<tr>
<td>Attenuator Volume</td>
<td>25 cu. in. (.41 L)</td>
<td>25 cu. in. (.41 L)</td>
<td>61 cu.in. (1 L)</td>
<td>61 cu. in. (1 L) Standard</td>
</tr>
<tr>
<td>Length</td>
<td>44” (111 cm)</td>
<td>44” (111 cm)</td>
<td>47” (119 cm)</td>
<td>51.5” (131 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>34” (86 cm)</td>
<td>34” (86 cm)</td>
<td>37” (94 cm)</td>
<td>43” (109 cm)</td>
</tr>
<tr>
<td>Height</td>
<td>33” (83 cm)</td>
<td>33” (83 cm)</td>
<td>41” (104 cm)</td>
<td>46.4” (118 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>770 lbs (349 kg)</td>
<td>800 lbs (362 kg)</td>
<td>1500 lbs (680 kg)</td>
<td>1800 lbs (816 kg)</td>
</tr>
</tbody>
</table>
H2O Jet continues to set the standard with the Advantage Extreme Pressure & Extreme Flow Pump series. These Pumps provide the best solution to your waterjet needs. The Advantage Extreme Pressure & Extreme Flow Pumps maintain maximum pressure and flow rate with the lowest pressure fluctuation throughout the complete high pressure range of cutting parameters. This insures minimum downtime and increases productivity.

**ADVANTAGE EP PUMP FEATURES**

1) Three models supporting orifice sizes up to .015"
2) Up to 1.26 gpm flow rate at 94,000 psi
3) Ergonomic, accessible design with removable doors and covers, tabletop intensifier height
4) Constant maximum pressure with minimum pressure fluctuation
5) User-friendly operator interface with touchscreen controls and diagnostics
6) Motor Starter included (optional Wye-Delta)

<table>
<thead>
<tr>
<th>Specifications</th>
<th>H505 or R EP</th>
<th>H100 EP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensifiers</td>
<td>Single or Redundant</td>
<td>Dual</td>
</tr>
<tr>
<td>Max Op Pressure</td>
<td>94,000 psi (6481 bar)</td>
<td>94,000 psi (6481 bar)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>.63 gpm (2.38 L/min)</td>
<td>1.26 gpm (4.77 L/min)</td>
</tr>
<tr>
<td>Max orifice Size</td>
<td>.010&quot; (.254 mm)</td>
<td>.015&quot; (.381 mm)</td>
</tr>
<tr>
<td>Horsepower</td>
<td>50 hp (37.29 kw)</td>
<td>100 hp (74.57 kw)</td>
</tr>
<tr>
<td>Hydraulic Res Capacity</td>
<td>80 gal (302.8 L/min)</td>
<td>80 gal (302.8 L/min)</td>
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<td>Cooling Water Flow</td>
<td>3-5 gpm (11.4-20 L/min)</td>
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<td>51&quot; (129.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>3500 lb (1588 kg)</td>
<td>4300 lb (1950 kg)</td>
</tr>
</tbody>
</table>

**ADVANTAGE EF PUMP FEATURES**

1) Three models supporting orifice sizes up to .024"
2) Up to three gpm flow rate at 60,000 psi
3) Ergonomic, accessible design with removable doors and covers, tabletop intensifier height
4) Constant maximum pressure with minimum pressure fluctuation
5) User-friendly operator interface with touchscreen controls and diagnostics
6) Motor Starter included (optional Wye-Delta)

<table>
<thead>
<tr>
<th>Specifications</th>
<th>H75 S or R EF</th>
<th>H150D EF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensifiers</td>
<td>Single or Redundant</td>
<td>Dual</td>
</tr>
<tr>
<td>Max Op Pressure</td>
<td>60,000 psi (4150 bar)</td>
<td>60,000 psi (4150 bar)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>1.5 gpm (5.7 L/min)</td>
<td>3.0 gpm (11.4 L/min)</td>
</tr>
<tr>
<td>Max orifice Size</td>
<td>.017&quot; (.431 mm)</td>
<td>.024&quot; (.609 mm)</td>
</tr>
<tr>
<td>Horsepower</td>
<td>75 hp (55.92 kw)</td>
<td>150 hp (111.85 kw)</td>
</tr>
<tr>
<td>Hydraulic Res Capacity</td>
<td>80 gal (302.8 L/min)</td>
<td>80 gal (302.8 L/min)</td>
</tr>
<tr>
<td>Cooling Water Flow</td>
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<tr>
<td>Height</td>
<td>51&quot; (129.5 cm)</td>
<td>51&quot; (129.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>3600 lb (1633 kg)</td>
<td>4900 lb (2222 kg)</td>
</tr>
</tbody>
</table>

www.waterjetparts.com
Toll Free: 866-928-3753
Fax: 360-539-2440
You cut, we handle the pressure!

Reliable, High Precision
Spare Parts & Pumps

Spare parts by H2O JET conform to the highest in quality standards. They are designed for a quick and easy replacement of ultra high pressure waterjet cutting systems. Proper fit, high material quality and fast availability help reduce the risk of prolonged production stoppage due to defective spare parts. Go the safe and easy way with spare parts from H2O JET.