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PRODUCT CATALOG



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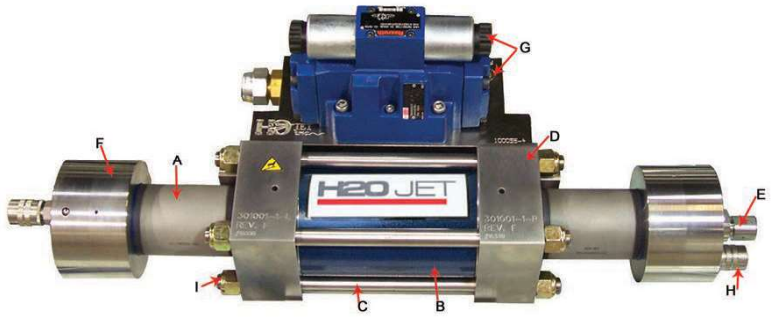
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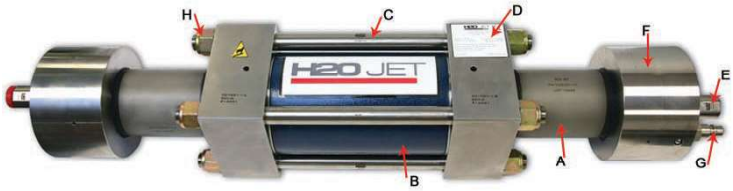
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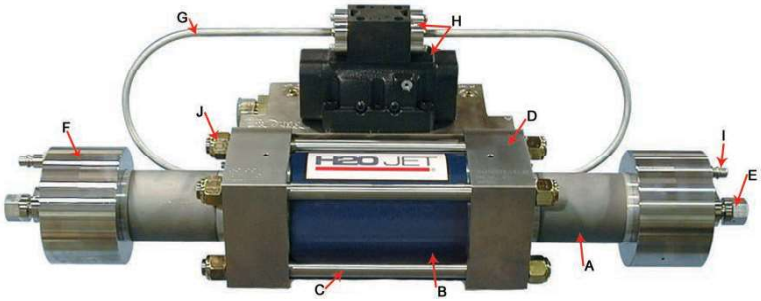
Electric Shift Intensifiers

60K Electric Shift	301020-3
60K Electric Shift - H2O 2pc. Check Valve	301020-3-3
60K Electric Shift - H2O 2pc. Check Valve Hi-Load	301020-3-3-HL
60K Electric Shift - Hi-Load	301020-3-HL
60K Electric Shift - Top Mount H2O 2pc. Check Valve	301020-6-3-HL
40K Electric Shift - H2O 2pc. Check Valve Hi-Load	301020-5-3-HL



Short Block Intensifiers

60K Standard	301003-1
60K H2O 2pc. Check Valve	301003-1-3
60K Hi-Load	301003-3
60K H2O 2pc. Check Valve w/Hi-Load	301003-3-3
40K Standard	301003-2
40K H2O 2pc. Check Valve	301003-2-4
40K Hi-Load	301003-4
40K H2O 2pc. Check Valve w/Hi-Load	301003-4-4



Mechanical Shift Intensifiers

60K Mechanical Shift	301020-1
60K Mechanical Shift - H2O 2pc. Check Valve	301020-1-3
60K Mechanical Shift - H2O 2pc. Check Valve Hi-Load	301020-1-3-HL
60K Mechanical Shift - Hi-Load	301020-1-HL
60K Mechanical Shift - Top Mount	301020-4
60K Mechanical Shift - Top Mount H2O 2pc. Check Valve	301020-4-3
60K Mechanical Shift - Top Mount 2pc. Check Valve Hi-Load	301020-4-3-HL
60K Mechanical Shift - Top Mount Hi-Load	301020-4-HL
40K Mechanical Shift	301020-2
40K Mechanical Shift - H2O 2pc. Check Valve	301020-2-4
40K Mechanical Shift - H2O 2pc. Check Valve Hi-Load	301020-2-4-HL
40K Mechanical Shift - H2O 2pc. Hi-Load	301020-2-HL

Electric Shift
Intensifier Parts Legend

A - High Pressure Cylinder 60K	100001-1
A - High Pressure Cylinder 40K	100001-2
B - Hydraulic Cylinder 60K/40K	100008-1
C - Tie Rod	100017-1
D - End Bell 60K Left	301001-1-L
D - End Bell 60K Right	301001-1-R
D - End Bell 40K Left	301001-2-L
D - End Bell 40K Right	301001-2-R
E - Check Valve Assy. 60K	301002-1
E - Check Valve Assy. 40K	301002-2
E - Check Valve Assy. 60K -2 Piece	301002-3
E - Check Valve Assy. 40K -2 Piece	301002-4
F - End Cap Assy.	301004-1
G - Electric Pilot Shift & Main Valve Assy.	301018-2
H - Quick Disconnect W/Hose Barb Assy.	301031-1
I - Hex Nut 3/4-16	400004-1
Parts (Not Shown)	
Electric Shift Sensor Assy.	301011-3
Piston & Plunger Assy. 60K	301005-1
Piston & Plunger Assy. 40K	301005-2
Hi-Load Piston & Plunger Assy. 60K	301005-3
Hi-Load Piston & Plunger Assy. 40K	301005-4

Short Block
Intensifier Parts Legend

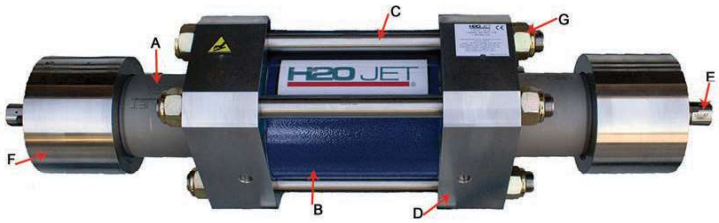
A - High Pressure Cylinder 60K	100001-1
A - High Pressure Cylinder 40K	100001-2
B - Hydraulic Cylinder 60K/40K	100008-1
C - Tie Rod	100017-1
D - End Bell 60K Left	301001-1-L
D - End Bell 60K Right	301001-1-R
D - End Bell 40K Left	301001-2-L
D - End Bell 40K Right	301001-2-R
E - Check Valve Assy. 60K	301002-1
E - Check Valve Assy. 40K	301002-2
E - Check Valve Assy. 60K -2 Piece	301002-3
E - Check Valve Assy. 40K -2 Piece	301002-4
F - End Cap Assy.	301004-1
G - Quick Disconnect Nipple Assy.	301019-1
H - Hex Nut 3/4-16	400004-1
Parts (Not Shown)	
Piston & Plunger Assy. 60K	301005-1
Piston & Plunger Assy. 40K	301005-2
Hi-Load Piston & Plunger Assy. 60K	301005-3
Hi-Load Piston & Plunger Assy. 40K	301005-4

Mechanical Shift
Intensifier Parts Legend

A - High Pressure Cylinder 60K	100001-1
A - High Pressure Cylinder 40K	100001-2
B - Hydraulic Cylinder 60K/40K	100008-1
C - Tie Rod	100017-1
D - End Bell 60K Left	301001-1-L
D - End Bell 60K Right	301001-1-R
D - End Bell 40K Left	301001-2-L
D - End Bell 40K Right	301001-2-R
E - Check Valve Assy. 60K	301002-1
E - Check Valve Assy. 40K	301002-2
E - Check Valve Assy. 60K -2 Piece	301002-3
E - Check Valve Assy. 40K -2 Piece	301002-4
F - End Cap Assy.	301004-1
G - Cable Guide Assy, Left - Side Mount	301011-1-L
G - Cable Guide Assy, Right - Side Mount	301011-1-R
G - Cable Guide Assy, Left - Top Mount	301011-2-L
G - Cable Guide Assy, Right - TopMount	301011-2-R
H - Mechanical Pilot Shift & Main Valve Assy.	301018-1
I - Water Inlet Nipple (Quick Disconnect)	301019-1
J - Hex Nut 3/4-16	400004-1
Parts (Not Shown)	
Piston & Plunger Assy. 60K	301005-1
Piston & Plunger Assy. 40K	301005-2
Hi-Load Piston & Plunger Assy. 60K	301005-3
Hi-Load Piston & Plunger Assy. 40K	301005-4

1.5 GPM 60k
Intensifier Parts Legend

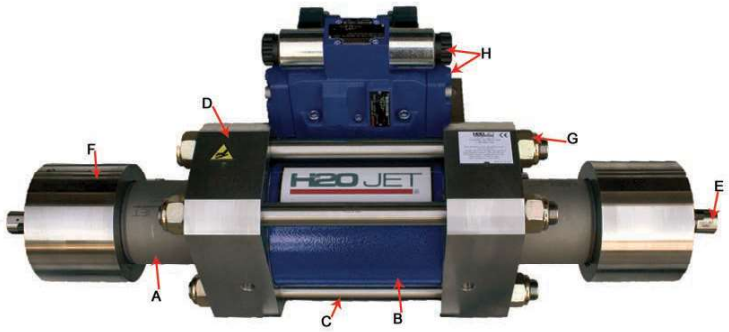
A - High Pressure Cylinder 1.5 GPM	100001-3
B - Hydraulic Cylinder 94K/1.5GPM	190008-2
C - Tie Rod	100017-2
D - End Bell 60K Left	301001-3-L
D - End Bell 60K Right	301001-3-R
E - Check Valve Assy. 60K	301002-5
F - End Cap Assy.	301004-2
G - Hex Nut 3/4-16	400004-2
Parts (Not Shown)	
Electric Shift Sensor Assy. 1.5 GPM	301011-4
Hi-Load Piston & Plunger Assy. 1.5 GPM	301005-5



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

1.5 GPM 60k
Intensifier Parts Legend

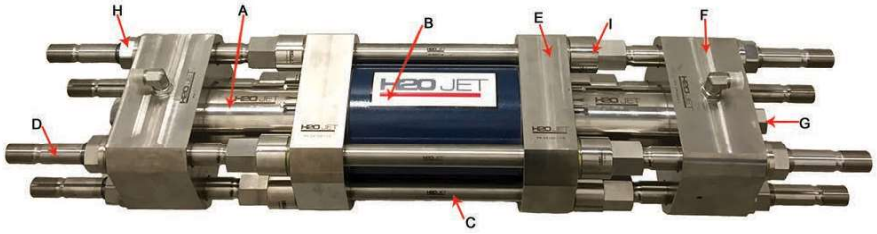
A - High Pressure Cylinder 1.5 GPM	100001-3
B - Hydraulic Cylinder 94K/1.5GPM	190008-2
C - Tie Rod	100017-2
D - End Bell 60K Left	301001-3-L
D - End Bell 60K Right	301001-3-R
E - Check Valve Assy. 60K	301002-5
F - End Cap Assy.	301004-2
G - Hex Nut 3/4-16	400004-2
H - Electric Pilot Shift & Main Valve	301018-2
Parts (Not Shown)	
Electric Shift Sensor Assy. 1.5 GPM	301011-4
Hi-Load Piston & Plunger Assy. 1.5 GPM	301005-5



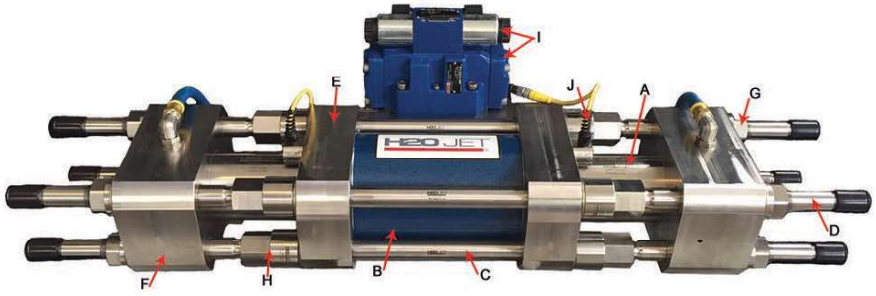
1.5 GPM 60k Long Block Intensifier
60k Electric Shift, Hi-Load & Manifold 301020-12-3-HL

94K Short Block
Intensifier Parts Legend

A - High Pressure Cylinder	190001-1
B - Hydraulic Cylinder Short Block	190008-1
C - Tie Rod LP Short Block	190017-1
D - Tie Rod HP Section	190017-2
E - End Bell Short Block - Left	391001-1-L
E - End Bell Short Block - Right	391001-1-R
F - End Cap Assy.	391004-1
G - Check Valve Assy.	391002-1
H - Hex Nut	190017-5
I - Coupling Nut Tie Rod	190017-4
Parts (Not Shown)	
Hi-Load Piston Assy. Short Block	391023-1
Backup Sleeve Assy.	391500-1
Pilot Valve Electric Shift	400054-1
Shift Sensor Assy.	301011-3



94k Short Block Intensifiers
94k Electric Shift, Hi-Load 391003-3-3



94k Short Block with Manifold
391020-3-3-HL

H2O Jet & Flow Compatable Parts



High Pressure Cylinder
HIGH PERFORMANCE

		Replaces
60K - 4.137 bar	100001-1	007038-3
40K - 2.758 bar	100001-2	007038-2



High Pressure Seal Kit

		Replaces
60K - 4.137 bar	302004-1	001198-1
40K - 2.758 bar	302004-2	001197-1

Includes:
A ~ 100021-1, Seal Buttress (60k)
A ~ 100021-2, Seal Buttress (40k)
B ~ 100053-1, HP Seal (60k)
B ~ 100053-2, HP Seal (40k)
C ~ 100054-1, Seal Hoop (60k)
C ~ 100054-2, Seal Hoop (40k)
D ~ 400042-119-80, O-Ring UHP Dark Red (60k)
D ~ 400042-122-80, O-Ring UHP Dark Red (40k)
E ~ 400034-2, O-Ring Lubricant



High Pressure Seal Kit JE

60K - 4.137 bar	302004-1-J
40K - 2.758 bar	302004-2-J

Includes:
A ~ 100053-1, HP Seal (60k)
A ~ 100053-1, HP Seal (40k)
B ~ 100054-1, Seal Hoop (60k)
B ~ 100054-2, Seal Hoop (40k)
C ~ 400042-119-80, O-Ring UHP Dark Red (60k)
C ~ 400042-122-80, O-Ring UHP Dark Red (40k)
D ~ 400034-2, O-Ring Lubricant



Intensifier Upgrade Kit

60K - 4.137 bar	302006-1
40K - 2.758 bar	302006-2

Includes:
A ~ 301023-1, High Load Piston (60k)
A ~ 301023-2, High Load Piston (40k)
B ~ 100014-1, End Bell Spacer (60k)
B ~ 100014-2, End Bell Spacer (40k)
C ~ 100011-1, Plunger Retainer (60k)
C ~ 100011-2, Plunger Retainer (40k)
D ~ 100013-1, Ceramic Plunger (60k
D ~ 100013-2, Ceramic Plunger (40k)
E ~ 100022-1, Check Valve Outlet (60k)
E ~ 100022-2, Check Valve Outlet (40k)
F ~ 302003-2, Check Valve Repair Kit
G ~ 302004-1, HP Seal Kit (60k)
G ~ 302004-2, HP Heal Kit (40k)
H ~ 302007-3, Hydraulic Seal Kit (60k)
H ~ 302007-5, Hydraulic Seal Kit (40k)
I ~ 400063-112, Snap Ring Internal (60k)
I ~ 400053-131, Snap Ring Internal (40k)
Not Shown:
400049-300, Snap Ring 3"



Ceramic Piston Plunger *One Piece

		Replaces
60K - 4.137 bar	100013-1	010253-1
40K - 2.758 bar	100013-2	013458-1



Backup Sleeve

		Replaces
60K - 4.137 bar	100018-1	B-1002-2
40K - 2.758 bar	100018-2	B-6313-2



End Cap Assembly
60K & 40K

	Replaces
301004-1	321276-1



Quick Disconnect

A- Water Inlet	301019-1
B- Hose Barb	301031-1

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Replaces B-83451 B-83461	301011-3 301011-3-A 301011-3-S	**Electric Shift Sensor** Complete Assembly (A) Actuator Assembly (B) Housing & Cable Assembly	
Replaces A-18862	301018-2	**Electronic Pilot Shift and Main Valve** Assembly	
Replaces A-10544	400054-1	**Pilot Valve Electrical Shift** Dual Solenoid	
Replaces B-1702-1	100051-2	**Firing Pin** Electronic	
Replaces C-5462-1 C-5461-1 C-1339-1 C-1331-1	301011-1-L 301011-1-R 301011-2-L 301011-2-R	**Mechanical Cable Guide** Left Side Mount Right Side Mount Left Top Mount Right Top Mount	
	301018-1	**Mechanical Pilot Shift and Main Valve** Assembly	
Replaces C-2743-1	400055-1	**Main Shift Valve** Mechanical	
Replaces B-2498-1	400054-2	**Pilot Valve** Mechanical	
Replaces B-1007-1	100019-1	**Shift Plunger** Mechanical	
Replaces B-1611-1	100007-1	**Cable Guide Split Pin** Mechanical	
Replaces A-1713	400056-1	**Cable Guide Plunger Spring** Internal	
Replaces A-1012	400053-1	**Cable Guide Plunger Spring** External	
Replaces 002226-1	100051-1	**Firing Pin** Mechanical	

H2O Jet & Flow Compatable Parts



Check Valve Assembly
Featuring **H2O Jet 2 Piece Poppet*

60K - 4.137 bar	301002-3
40K - 2.758 bar	301002-4



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

Includes:
A ~ 100034-1, 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:
400034-2, O-Ring Lubricant
400216-1, Loctite 242 Lubricant



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



Check Valve Main Body

		Replaces
60K	100009-1	004383-3
40K	100009-2	004383-2



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



Check Valve Assebmly

		Replaces
60K - 4.137 bar	301002-1	010559-3
40K - 2.758 bar	301002-2	010559-2



Check Valve Repair Kit
60K & 40K — 302003-1 — Replaces 015866-1

Includes:
A ~ 100034-1, Poppet Seat
B ~ 100056-1, Retaining Screw
C ~ 100058-1, Inlet Poppet
D ~ 100057-1, Outlet Poppet
E ~ 301009-1, Inlet Poppet housing
F ~ 400043-125, O-Ring
G ~ 400045-1, Check Valve Spring



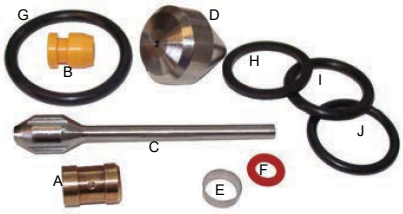
Check Valve Outlet Body
60K & 40K — 100022-1 — Replaces C-1313-1



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

Includes:
A ~ 100034-1, 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: 400216-1, Loctite 242 Lubericant

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Replaces 004694-1	302008-1	**Hydraulic Auto Bleed Down** Repair Kit 40k & 60k	

Back-Up O-Ring, 400047-114 ~ J
Not Shown:
Poppet Install Tool, 400709-1
O-Ring Lubricant, 400034-2

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

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

	301028-1	**Hydraulic Auto Bleed Down Assembly** with Catcher	
Replaces C-5841-1	301013-1	**Hydraulic Auto Bleed Down** Valve Assembly	
Replaces C-2740-1	301013-2	**Hydraulic Auto Bleed Down** 1/2 of Valve Assembly	
	301015-2	**Hydraulic Auto Bleed Down** Catcher	
Replaces 005878-1	100087-1	**Hydraulic Auto Bleed Down** Catcher Body	
Replaces B-8426-1	100130-1	**Hydraulic Bleed Down** Piston	
Replaces B-8428-1	100131-1	**Hydraulic Bleed Down** Piston Insert	
	400008-5	**Bleed Down Valve Adapter** 3/8” x 1/2” JIC	
	400083-1	**Bleed Down Valve** Carbide Disc	
	400081-6	**Bleed Down Valve Catcher** SS Plug	
Replaces A-4241	400033-1	**Bleed Down Valve Oil Seal** 125 Shaft Dia SST	
Replaces B-5975-1	100134-1	**Hydraulic Auto Bleed Down** Valve Adapter	
Replaces B-8427-1	100132-1	**Hydraulic Auto Bleed Down** Valve Housing	

H2O Jet & Flow Compatable Parts



Hi-Load Piston Assembly
**H2O JET Design*

60K - 4.137 bar	301023-1	
40K - 2.758 bar	301023-2	



Hydraulic Piston Assembly *Flow Style

		Replaces
60K - 4.137 bar	100010-1	007026-1
40K - 2.758 bar	100010-2	007201-1



Ring Kit
Hi-Load *H2O JET — 302013-1



Hi-Load Hydraulic Seal Kit

60K - 4.137 bar	302007-3
40K - 2.758 bar	302007-5



Hydraulic Seal Kit *Flow Style

		Replaces
60K - 4.137 bar	302007-1	010641-1
40K - 2.758 bar	302007-2	



Hydraulic Seal Kit HO

		Replaces
60K - 4.137 bar	302005-1	B-1163-1
40K - 2.758 bar	302005-2	B-1163-2



Hydraulic Cylinder
60K & 40K PSI — 100008-1 — Replaces C-1000-1



Tie Rod
60K & 40K PSI — 100017-1 — Replaces B-1000-2

Replaces			
010253-1	100013-1	**Ceramic Piston Plunger** 60k	
013458-1	100013-2	40k	
	301005-3	**Piston & Plunger Hi-Load Assembly** 60k	
	301005-4	40k	
Replaces		**Piston & Plunger Assembly** *Flow Style	
010561-1	301005-1	60k	
007202-1	301005-2	40k	
Replaces		**End Bell Assembly**	
007303-2	301001-1-L	Left 60k	
007303-1	301001-1-R	Right 60k	
007304-2	301001-2-L	Left 40k	
007304-1	301001-2-R	Right 40k	
Replaces		**Plunger Retainer**	
007029-1	100011-1	60k	
007688-1	100011-2	40k	
Replaces		**Internal Inverted End Bell Snap Ring**	
A-0264-112	400063-112	60k	
A-0264-131	400063-131	40k	
		End Bell Spacer	
	100014-1	60k	
	100014-2	40k	
Replaces		**Rod Seal**	
A-11275	400050-W-875-2	60k	
	400050-W-1062-2	40k	
Replaces		**Rod T-Seal**	
A-00251-18	400051-18	60k	
A-00251-22	400051-22	40k	



High Pressure Cylinder
1.5 GPM 60k — 100001-3



High Pressure Seal Kit
1.5 GPM 60k — 302004-3

Includes:
A ~ 100021-3, HP Seal Buttress
B ~ 100053-3, HP Seal
C ~ 100054-3, Seal Hoop
D ~ 400034-2, O-Ring Lubricant
E ~ 400042-123-80, O-Ring UHP Dark Red



Check Valve Assembly
1.5 GPM 60k — 301002-5



Check Valve Repair Kit
1.5 GPM 60k — 302003-4

Includes:
A ~ 100034-1, Poppet Seat
B ~ 100056-1, Screw Hex Head
C ~ 100058-1, Inlet Poppet
D ~ 102007-1, Outlet Poppet
E ~ 102008-1, Spring Retainer
F ~ 301009-3, Inlet Poppet housing
G ~ 400043-129, O-Ring
H ~ 400130-1, Check Valve Spring
I ~ 400034-2, O-Ring Lubricant
J ~ 400216-1, Loctite 242 Lubricant



Check Valve 1.5 GPM 60k
Main Body 1.5 GPM (A) — 100009-3
Outlet Body (B) — 100022-2



Backup Sleeve
1.5 GPM 60k — 100018-3



Hydraulic Cylinder
1.5 GPM 60k & 94k Long Block — 190008-2



Piston Assembly
1.5 GPM 60k Hi-Load — 301023-3

392013-1	**High Load Piston Seal Kit** 1.5 GPM 60k	
302007-6	**Hydraulic Hi-Load Seal Kit** 1.5 GPM 60k	
301005-5	**Piston & Plunger Assembly** 1.5 GPM 60k Hi-Load	
100013-3	**Ceramic Piston Plunger** 1.5 GPM 60k	
100011-3	**Plunger Retainer** 1.5 GPM 60k	
301055-1	**Seal Cartridge Assembly** Rod Oil Seal 1.5 GPM 60k	
302045-1	**Cartridge Seal Kit** Rod Oil Seal 1.5 GPM 60k	
301011-4 301011-4-A	**Electric Shift Sensor** Complete Assembly (A) Actuator Assembly	
302018-4	**Pump Service Tool Kit** 1.5 GPM 60k	

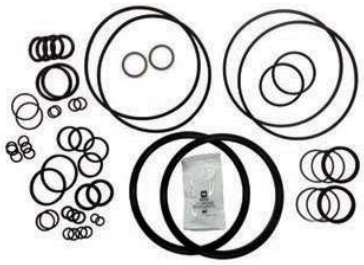
Includes:
Cylinder Wrench, 301027-2 ~ A
Assembly Bench, 391037-1 ~ B
Shift Pin Tool, 301038-1 ~ C
Seal Cartridge Tool, 100251-1 ~ D
HP Seal Installation Kit, 302015-3 ~ E
Bleed Down Valve Tool, 302016-1 ~ F
Blue Goop, 400001-1 ~ G

Lapping Kit, 302014-1 ~ H
Jackbolt Lubricant, 400001-2 ~ I
Spanner Wrench, 400025-2 ~ J

Not Shown:
Ring Compressor, 400131-1
Tool Box, 400350-1
Socket 1-58", 400802-1.625
Torque Multiplier, 400812-1

H2O Jet & Flow Compatable Parts

	**Extreme Pressure Cylinder** HIGH PERFORMANCE 94k	190001-1	Replaces 020592-1
	**Ceramic Piston Plunger** 94k	100013-1	Replaces 010253-1
	**HP Seal Cartridge** 94k	391094-1	
	**Backup Sleeve** 94k	391500-1	Replaces 020595-1
	**End Cap** 94k	391004-1	Replaces 014817-1
	**Coupling Nut** 94k Tie Rod	190017-4	Replaces 014840-1
	**HP Tie Rod** Short & Long Block	190017-2	Replaces 014589-1
	**LP Tie Rod** 94k Short Block 94k Long Block	190017-1 190017-1-2	Replaces 020078-1 011291-1
	**Nut** 94k Tie Rod/End Cap	190017-5	Replaces 014597-1

Replaces			
020080-1	391023-1	**Hi-Load Piston Assembly** 94k Short Block	
011304-1	391023-2	94k Long Block	
	392013-1	**Hi-Load Piston Seal Kit** 94k Hi-Load 94k, 5”	
	392007-3	**Hydraulic Seal Kit** 94k Hi-Load	
Replaces			
013157-1	392007-1	**Hydraulic Seal Kit** 94k Standard *Flow Piston	
Replaces			
020072-1	391001-1-L	**End Bell Assembly** 94k Short Block (Left)	
020074-1	391001-1-R	94k Short Block (Right)	
011301-1	391001-2-L	94k Long Block (Left)	
011300-1	391001-2-R	94k Long Block (Right)	
Replaces			
019975-1	190008-1	**Hydraulic Cylinder** 94k Short Block	
011291-1	190008-2	94k Long Block	



Check Valve Repair Kit
94k

392003-2

Replaces
012035-1

Includes:
A ~ 100056-1, Check Valve Screw
B ~ 100058-1, Inlet Poppet
C ~ 190034-1, Poppet Seat
D ~ 192007-1, Outlet Poppet
E ~ 192008-1, Spring Retainer
F ~ 301009-1, Inlet Poppet Housing
G ~ 490045-1, Check Valve Spring
H ~ 490043-131, O-Ring
Not Shown:
400216-1, Loctite 242 Lubricant
400034-2, O-Ring Lubricant



Check Valve Assembly
94k

391002-1

Replaces
020071-1



Check Valve Main Body
94k

190009-1

Replaces
020077-1



Check Valve Outlet Body
94k

190022-1

Replaces
042101-1



Hydraulic Bleed Down Valve
94k Assembly

391013-1

Replaces
019309-1



Hydraulic Bleed Down Valve
94k Repair Kit

392008-1

Replaces
015084-1

Includes:
A ~ 190081-1, Guide Butress
B ~ 190081-2, Poppet Bearing
C ~ 190082-1, Poppet Seal
D ~ 190083-1, Poppet
E ~ 190084-1, Poppet Landing
F ~ 490042-010, O-Ring bleed down Red
G ~ 490043-212, O-Ring Actuator
H ~ 490047-212, O-Ring Backup Ring
Not Shown:
400034-2, O-Ring Lubricant
100104-1, Seal Ejection Tool



Hydraulic Bleed Down Valve
94k Body

190133-1

Replaces
011742-1

Replaces 042512-3

392500-1

Pressure Loading Tool Kit
94k



192018-1

End Bell Nut Coupler Tool
94k



Replaces 019623-1

392501-1

Mini Valve Seal Install Tool
60k & 94k



490118-1

Threading Die 1/4”
94k



392025-1

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

Includes:
392024-1, Threading Kit (100k)
302026-1, Coning Kit
302027-1, Bending Kit
400350-1, Tool Box



392018-3

Intensifier Service & Wrench Kit
94k

10” Extension Bar, 400807-1
Hex Key Set, 400808-1
Tourque Wrench 1/2”, 400809-2
Crowfoot 1-5/8”, 400811-1.625
Torque Multiplier, 400812-1
Socket 1-1/2”, 400813-1.5
Thread Die 1/4-24, 490118-1
Sun Programer Module, 610037-1
Programer Cable Interface, 610037-2

Silver Thread Lubricant, 400001-3
23” Intensifier Wrench, 400350-3
Wrench 5/15”, 400801-.312
Wrench 9/16”, 400801-.562
Wrench 7/8”, 400801-.875
Wrench 15/16”, 400801-.937
Wrench 1-1/4”, 400801-1.250
Socket 1/1/4”, 400802-1.25
Socket 1-5/8”, 400802-1.625
Hammer 31lb, 400804-1
Retaining Ring Plier Set, 400805-1

Includes:
Assembly Bench, 391037-1
Shift Pin Tool, 301038-1
End Bell Nut Tool, 192018-1
Seal Installation Tool, 392501-1
Pressure Loading Tool, 392500-1
Blue Goop, 400001-1
Ring Compressor, 400131-1
Lapping Block Kit, 302014-1
Rod Oil Tool, 100240-1
Socket Adapter 1/2”, 400806-2



392018-1

Intensifier Service Tool Kit
94k

Rod Oil Tool, 100240-1
Socket Adapter 1/2”, 400806-2
Silver Thread Lubricant, 400001-3
Socket 1-5/8”, 400802-1.625
Crowfoot 1-5/8”, 400811-1.625
Torque Multiplier, 400812-1
Socket 1-1/2”, 400813-1.5
Rod Oil Tool, 100240-1
Tool Box, 400350-1

Includes:
Assembly Bench, 391037-1
Shift Pin Tool, 301038-1
End Bell Nut Tool, 192018-1
Seal Installation Tool, 392501-1
Pressure Loading Tool, 392500-1
Blue Goop, 400001-1
Ring Compressor, 400131-1
Lapping Block Kit, 302014-1





Hi-Performance Air Actuator
N/C Assembly 301006-1
N/O Assembly 301006-2
Replaces 001323-1



Ultra II Air Actuator
N/C Assembly 301006-4
N/O Assembly 301006-5
Replaces 003840-1



Valve Body
Hi-Performance 100048-1
Legacy Threaded 100048-2
Replaces 006143-1



Valve Body
Ultra II 100048-3
Replaces 010104-1



HP Collar
Block 100040-1
Replaces 006144-1



HP Collar
Round 100040-2



HP Collar
Round 3 Bolt 100040-4
Replaces 002895-1

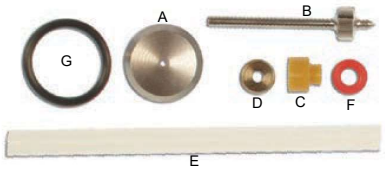
Replaces 001959-1

302001-1

On/Off Valve Repair Kit
High Performance

Seal Ejection Tool, 100104-1 ~ E
Seal O-Ring Dark Red, 400042-006 ~ F
O-Ring, 400043-014 ~ G
Not Shown:
O-Ring Lubricant, 400034-2

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

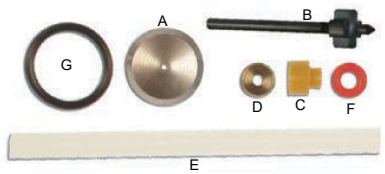


302001-1-2

On/Off Valve Repair Kit Extended Life
High Performance

Seal Ejection Tool, 100104-1 ~ E
Seal O-Ring Dark Red, 400042-006 ~ F
O-Ring, 400043-014 ~ G
Not Shown:
O-Ring Lubricant, 400034-2

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



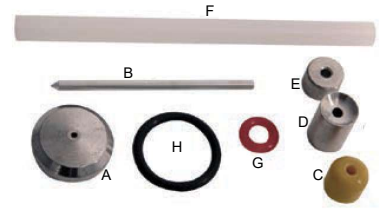
Replaces 010200-1

302001-2

On/Off Valve Repair Kit
Ultra II

Seal Ejection Tool, 100104-1 ~ F
Seal O-Ring Dark Red, 400042-007 ~ G
O-Ring, 400043-014 ~ H
Not Shown:
O-Ring Lubricant, 400034-2

Includes:
Poppet Landing, 100059-1 ~ A
Poppet, 100152-1 ~ B
Poppet Seal, 100061-2 ~ C
Seal Butress, 100151-1 ~ D
Poppet Guide, 100150-1 ~ E

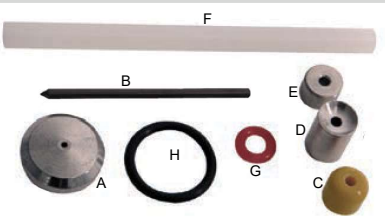


302001-2-2

On/Off Valve Repair Kit Extended Life
Ultra II

Seal Ejection Tool, 100104-1 ~ F
Seal O-Ring Dark Red, 400042-007 ~ G
O-Ring, 400043-014 ~ H
Not Shown:
O-Ring Lubricant, 400034-2

Includes:
Poppet Landing, 100059-1 ~ A
Extended Life Poppet, 100152-1-2 ~ B
Poppet Seal, 100061-2 ~ C
Seal Butress, 100151-1 ~ D
Poppet Guide, 100150-1 ~ E



302017-1

Air Actuator Repair Kit
High Performance & Ultra II

O-Ring, 400043-4-202 ~ D
O-Ring Lubricant, 400034-1 ~ E
Hi-Performance Spring ~ F
U-CAP EF Coated ~ G

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



Replaces A-0857-1

400066-1

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



400064-1

Air Hose Fitting
1/8” M



301008-1

Valve Seal Retainer Insert
High Performance



Replaces 004096-1

301008-2

Valve Seal Retainer Insert
Ultra II



H2O Jet & Flow Compatable Parts



Mini On/Off Valve Assembly
60k N/C — 301007-12
60k N/C Without Nozzle Body — 301007-13
Replaces 710870-1



Mini Air Actuator
60k N/C — 301006-6
Replaces 710875-1



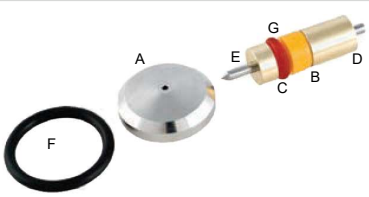
Mini Collar Block
60k — 100040-3
Replaces 710868-1



Mini Valve Nozzle Body
60k Mini Valve to IDE™ — 100026-6

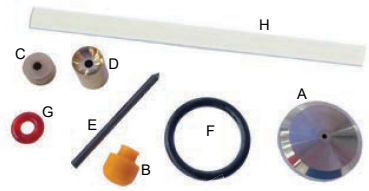


Mini Valve Body
60k — 100048-4
Replaces 710866-1



Mini On/Off Valve Repair Kit
60k — 302001-3
Replaces 711484-1

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 ~ 400043-014, Landing O-Ring
G ~ 490042-005, O-Ring Red
Not Shown:
400034-2, Food Grade Lubricant



Mini On/Off Valve Repair Kit Extended Life
60k — 302001-3-2

Includes:
A ~ 100059-2, Poppet Landing
B ~ 100061-3, Poppet Seal
C ~ 100150-2, Poppet Guide
D ~ 100151-3, Backup Ring
E ~ 100152-2-2, Extended Life Poppet
F ~ 400043-014, Landing O-Ring
G ~ 490042-005, O-Ring Red
H ~ 100104-2, Seal Ejection Tool
Not Shown: 400034-2, Food Grade Lubricant



Mini Valve Seal Install Tool
60k & 94k — 392501-1
Replaces 019623-1

Mini Air Actuator
Repair Kit — 302017-3

Replaces 014660-1

391007-1 **Advantage EP 94k Mini Valve Assembly** w/Standard Nozzle Body
391007-2 w/Water Only Nozzle Body & Nut
391007-3 w/Standard Water Only Nozzle Body & Nut

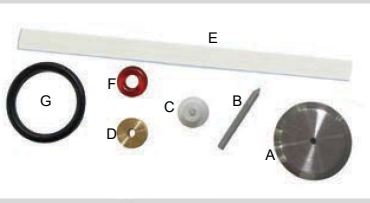


Replaces 014988-1

392001-1 **Advantage EP On/Off Valve Kit** 94k
*Flow Universal Valve (60k-94k) Compatable

Seal Ejection Tool, 190104-1 ~ E
Seal O-Ring Red, 490042-005 ~ F
O-Ring, 400043-014 ~ G
Not Shown:
Food Grade Lubricant, 400034-2

Includes:
Poppet Landing, 190059-1 ~ A
Poppet, 190060-1 ~ B
Poppet Seal, 190061-1 ~ C
Seal Butress, 190062-1 ~ D

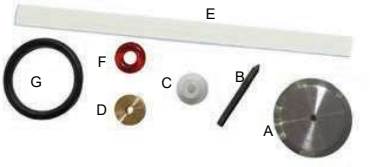


Replaces 014988-1

392001-1-2 **Advantage EP On/Off Valve Kit Extended Life** 94k
*Flow Universal Valve (60k-94k) Compatable

Seal Ejection Tool, 190104-1 ~ E
Seal O-Ring Red, 490042-005 ~ F
O-Ring, 400043-014 ~ G
Not Shown:
Food Grade Lubricant, 400034-2

Includes:
Poppet Landing, 190059-1 ~ A
Extended Life Poppet, 190060-1-2 ~ B
Poppet Seal, 190061-1 ~ C
Seal Butress, 190062-1 ~ D



Replaces 014559-1

391006-1 **Advantage EP Mini Air Actuator** 94k N/C Assembly



392017-3 **Advantage EP Mini Air Actuator** Repair Kit

Replaces 019519-1

190026-1 **Advantage EP Nozzle Body** 94k Standard



Replaces 041154-1

190026-4 **Advantage EP Nozzle Body** 94k Water Only



Replaces 014554-1

190048-1 **Advantage EP Valve Body** 94k



Replaces 710849-1

190026-3 **Advantage EP Gland Nut** 94k



Replaces 710869-1

190026-2 **Advantage EP Collar** 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 Shop 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 Shop 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 yout part#.**
(Example: 301007-7-4 or 301007-7-4-SSF)

Take Your Cutting Head to the Next Level with the IDE™



Single Port IDE™ III



Dual Port IDE™ III



94k EP IDE™ III

The H2O JET Integral Diamond Eductor III consistently demonstrates superior performance and reduces operating cost when compared to competitive brand abrasive cutting heads.

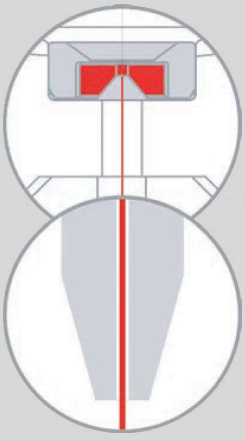
- **Up to 50% faster cutting - No lost time due to constant orifice replacement**
- **From 10 to 20 times greater service life**
- **Superior edge quality**

- **Dead-On Alignment**
  The diamond orifice is imbedded, thus integral to the mixing chamber. The jet stream is precisley 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.

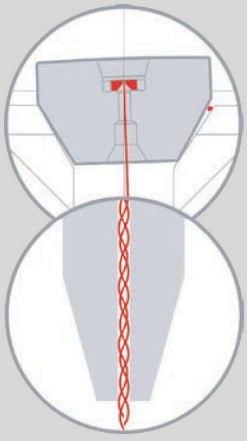
- **Faster Cutting Speed**
  Precise alignment of the diamond orifice with the mixing tube allows maximum power to be delivered to the cutting surface. This extends the nozzle life and increases the cutting speed. **H2O JET guarantees every Integral Diamond Eductor III for a minimum of *500 hours.**
  (*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



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)

391130-1-xx 391130-1-xx-SSF	**94k Integral Diamond Eductor IDE™** *Flow Dynamic Compatable .281" ID w/Short Stop Filter (xx denotes orifice size: .004=04, .013=13)	
190172-1	**94k IDE™ Clamp Nut** Replacement	
391035-1	**IDE™Abrasive Inlet Tube** Replacement	
190172-2	**94k Clamp Nut Adapter** Contour Follower	
391026-3	**94k Short Stop Filter Assembly** 1/4"F x 1/4"M	
391124-1-xx	**94k Advantage EP IDE™** Cutting Head Assembly (xx denotes orifice size: .010=10, .015=15)	

	**IDE™ III Retaining Collet** .281" ID	100171-281
	**Clamp Nut** IDE™ III	100172-1
	**Abrasive Inlet Tube** IDE™ III	391035-1
	**Splash Guard** IDE™ III	400222-1
	**IDE™ III Dynamic Contour Follower Option** P-V to H2O Adapter	100167-2
	**JE to IDE™ III** Adapter	100205-1
	**Maxjet 5 to IDE™ III** Adapter (Tilt-a-Jet Only)	301200-1
	**Maxjet 5 to IDE™ III** Adapter (Non Tilt-a-Jet)	301200-2
	**OM Air Valve to IDE™ III** Adapter	301033-1
	**KMT to IDE™ III** Adapter	301034-1

	301026-3	**Short Stop Filter W/Adapter Assembly** 1/4”F x 3/8”M	
	301026-1	**Short Stop Filter Assembly** Coned Insert 3/8”	
	301026-2	**Short Stop Filter Assembly** 3/8”F x 3/8”M	
	301026-4 301026-6	**Short Stop Filter Body** w/Insert, 1/4”F x 3/8”M w/Insert, 1/4”F x 1/4”M	
	100192-1 100192-2 190192-1	**Short Stop Adapter Insert** 3/8” 1/4” 94k,1/4”	
	400096-1	**Short Stop Filter (40k, 60k & 94k)** .006”	
	100157-1 100157-2 190157-2	**Short Stop Adapter Body** 3/8”F x 3/8”M 1/4”F x 3/8”M 94k, 1/4”F x 1/4”M	
	391026-3	**94k Short Stop Filter Assembly** 1/4”F x 1/4”M	
	301010-1 301010-2 400240-3-65	**Inline Filter Assembly** 1/4” 3/8” 9/16”	
Replaces 000806-1	100063-1	**Inline Filter** Housing	
Replaces B1313-1	400052-1 400241-3-65	**Inline Filter Screen** 1/4” & 3/8” 9/16”	

	**The Edge™ Cutting Head** w/Removable P-III (Includes one P-III Ruby .010- .014 orfice 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” Nozzle Body Collar Gland Nut	 301099-1 100027-1 100027-2 100027-3	
	**P-III Nozzle Body** Hi-Velocity 4.33” Extended, Hi-Velocity 6.59”	 100026-3 100026-4	Replaces 001195-1
	**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

Replaces	.281" OD / 7.14 mm OD	RocTec 100 Material
	.020"ID, 3" long/0.51mm ID, 76mm long	100100-20-3
	.020"ID, 4" long/0.51mm ID, 102mm long	100100-20-4
012680-30-30	.030"ID, 3" long/0.76mm ID, 76mm long	100100-30-3
012680-30-40	.030"ID, 4" long/0.76mm ID, 102mm long	100100-30-4
012680-35-30	.035"ID, 3" long/0.90mm ID, 76mm long	100100-35-3
012680-40-30	.040"ID, 3" long/1.02mm ID, 76mm long	100100-40-3
012680-40-40	.040"ID, 4" long/1.02mm ID, 102mm long	100100-40-4
012680-50-30	.050"ID, 3" long/1.27mm ID, 76mm long *Special Order	100100-50-3
012680-50-40	.050"ID, 4" long/1.27mm ID, 102mm long *Special Order	100100-50-4

	.281" OD / 7.14 mm OD	RocTec 500 Material
010460-20-30	.020"ID, 3" long/0.51mm ID, 76mm long	100100-20-3-500
010460-20-40	.020"ID, 4" long/0.51mm ID, 102mm long	100100-20-4-500
010460-30-30	.030"ID, 3" long/0.76mm ID, 76mm long	100100-30-3-500
010460-30-40	.030"ID, 4" long/0.76mm ID, 102mm long	100100-30-4-500
010460-40-30	.040"ID, 3" long/1.02mm ID, 76mm long	100100-40-3-500
010460-40-40	.040"ID, 4" long/1.02mm ID, 102mm long	100100-40-4-500
010460-50-40	.050"ID, 4" long/1.27mm ID, 102mm long *Special Order	100100-50-4-500
	.060"ID, 4" long/1.52mm ID, 102mm long *Special Order	100100-60-4-500



Flow Style Focusing Tubes with Inlet Ring & Washer

Replaces	.281" OD / 7.14 mm OD	RocTec 100 Material
014214-30-30	.030"ID, 3" long/0.76mm ID, 76mm long	100300-30-3
014214-30-40	.030"ID, 4" long/0.76mm ID, 102mm long	100300-30-4
014214-40-30	.040"ID, 3" long/1.02mm ID, 76mm long	100300-40-3
014214-40-40	.040"ID, 4" long/1.02mm ID, 102mm long	100300-40-4
014214-50-30	.050"ID, 3" long/1.27mm ID, 76mm long *Special Order	100300-50-3
014214-50-40	.050"ID, 4" long/1.27mm ID, 102mm long *Special Order	100300-50-4

	.281" OD / 7.14 mm OD	RocTec 500 Material
014194-30-30	.030"ID, 3" long/0.76mm ID, 76mm long	100300-30-3-500
014194-30-40	.030"ID, 4" long/0.76mm ID, 102mm long	100300-30-4-500
014194-40-30	.040"ID, 3" long/1.02mm ID, 76mm long	100300-40-3-500
014194-40-40	.040"ID, 4" long/1.02mm ID, 102mm long	100300-40-4-500
014194-50-40	.050"ID, 4" long/1.27mm ID, 102mm long *Special Order	100300-50-4-500



JE Style Focusing Tubes

	.250" OD / 6.35 mm OD	RocTec 100 Material
30647, 36937	.030"ID, 3" long/0.76mm ID, 76mm long	100101-30-3
30648, 101159	.040"ID, 3" long/1.02mm ID, 76mm long	100101-40-3
30649, 36769	.045"ID, 3" long/1.15mm ID, 76mm long	100101-45-3

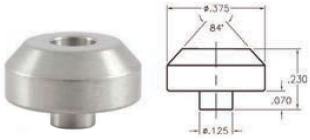
	.250" OD / 6.35 mm OD	RocTec 500 Material
104498	.040"ID, 3" long/1.02mm ID, 76mm long	100101-30-3-500



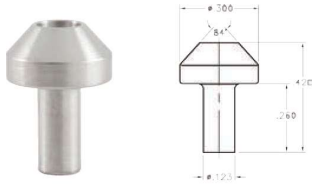
KMT Style Focusing Tubes

	.371" OD / 9.42 mm OD	RocTec 100 Material
10126969	.030"ID, 3" long/0.76mm ID, 76mm long	100102-30-3
10126928	.040"ID, 3" long/1.02mm ID, 76mm long	100102-40-3

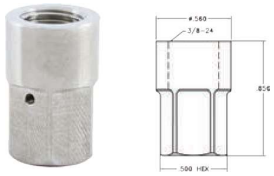
* Please Call to inquire about Special Order sizes



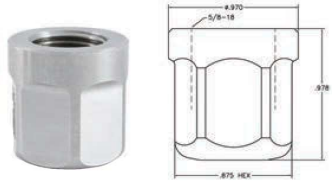
Standard Nozzle Assembly
Diamond 201101-xx
Sapphire 202101-xx
Replaces 004519-xx



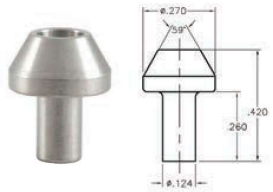
LM-II-L Nozzle Assembly
Diamond 201201-xx
Sapphire 202201-xx



IDNN-LM (Integral Diamond Nozzle Nut)
Diamond 201203-xx



IDNN-HP (Integral Diamond Nozzle Nut)
Diamond 201204-xx



LS-I Nozzle Assembly
Diamond 201401-xx
Sapphire 202401-xx



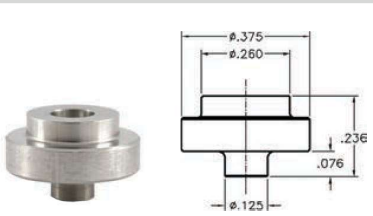
LS-II Nozzle Assembly
Diamond 201402-xx
Sapphire 202402-xx

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.

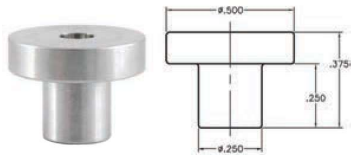
Replaces 009519-xx 012469-xx	**P-III Nozzle Assembly** 201501-xx 203501-xx	Diamond Ruby



Replaces D-5070-xx 001821-xx	**P-II-Step Nozzle Assembly** 201601-xx 202601-xx 203601-xx	Diamond Sapphire Ruby



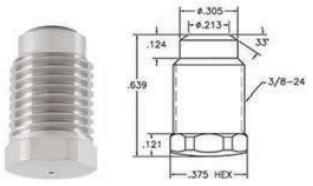
Replaces 100158-xxx 100159-xxx	**JE P-II T-Mount Nozzle Assembly** 201920-xx 203920-xx	Diamond Ruby



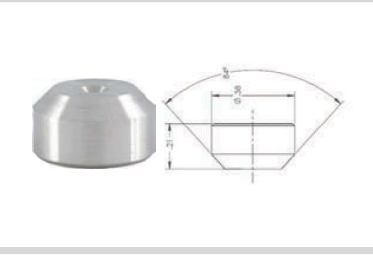
Replaces 014155-xx 014201-xx	**P-V Nozzle Assembly (ECL)** 201940-xx 203940-xx	Diamond Ruby



	BLAST Nozzle Assembly 203950-xx	Ruby



Replaces 015849-xx 041759-xx	**Advantage EP P-IV 94K Nozzle Assembly** 291502-xx 293101-xx	Diamond Ruby



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

Pressure	Orifice Size									
PSI	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.012
30,000	0.03	0.06	0.09	0.13	0.18	0.23	0.29	0.36	0.44	0.52
35,000	0.04	0.06	0.10	0.14	0.19	0.25	0.32	0.39	0.47	0.56
40,000	0.04	0.07	0.10	0.15	0.20	0.27	0.34	0.42	0.51	0.60
45,000	0.04	0.07	0.11	0.16	0.22	0.28	0.36	0.44	0.54	0.64
50,000	0.04	0.08	0.12	0.17	0.23	0.30	0.38	0.47	0.56	0.67
55,000	0.04	0.08	0.12	0.18	0.24	0.31	0.40	0.49	0.59	0.70
60,000	0.05	0.08	0.13	0.18	0.25	0.33	0.41	0.51	0.62	0.74

Pressure	Orifice Size										
PSI	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023
30,000	0.61	0.71	0.81	0.93	1.04	1.17	1.30	1.44	1.57	1.74	1.91
35,000	0.66	0.77	0.88	1.00	1.12	1.26	1.40	1.56	1.72	1.88	2.06
40,000	0.71	0.82	0.94	1.06	1.20	1.35	1.50	1.66	1.84	2.01	2.20
45,000	0.75	0.87	1.00	1.13	1.27	1.43	1.59	1.77	1.95	2.14	2.34
50,000	0.79	0.91	1.04	1.19	1.34	1.51	1.68	1.86	2.05	2.25	2.46
55,000	0.83	0.96	1.10	1.25	1.41	1.58	0.18	1.95	2.15	2.36	2.58
60,000	0.86	1.00	1.15	1.31	1.48	1.66	1.85	2.04	2.25	2.47	2.70

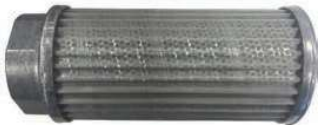
Pressure	Orifice Size									
PSI	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.012
75,000	0.05	0.09	0.14	0.21	0.28	0.37	0.46	0.55	0.69	0.82
80,000	0.05	0.09	0.15	0.21	0.29	0.38	0.48	0.57	0.71	0.85
85,000	0.06	0.10	0.15	0.22	0.30	0.39	0.49	0.59	0.74	0.88

Pressure	Orifice Size		
PSI	0.013	0.014	0.015
75,000	0.97	1.12	1.29
80,000	1.00	1.16	1.33
85,000	1.03	1.19	1.37

Pump Capacities*

Pump Capacities*	GPM 60000	Max Orifice	GPM 94000	Max Orifice
10HP	0.24	0.007	-	
15HP	0.31	0.008	-	
30HP	0.60	0.010	-	
50HP	1.00	0.014	0.63	0.010
100HP	2.00	0.020	1.365	0.015
75HP EF	1.50	0.017		
150HP EF	3.00	0.024		

*Pump will not be able to stroke fast enough to maintain pressure for larger orifices.

	400023-1-1S 400023-1-10S	**Filter Cartridge 10" 222/Flat Cap Style** 1 Micron 10 Micron	
Replaces A-1555 A-1453	400023-1-1 400023-1-10	**Filter Cartridge 10"** 1 Micron 10 Micron	
Replaces A-1555 A-1449	400023-1-1P 400023-1-45P	**Filter Cartridge 10" Pleated** 1 Micron .45 Micron	
Replaces A-00562-2 A-00562-1	400023-20-1P 400023-20-45P	**Filter Cartridge 20"** 1 Micron .45 Micron	
Replaces A-5480	400035-1	**Hydraulic Return Filter** 9X	
	606210-6-F 606210-9-F	**Oil Filter Cartridge** 10-50hp Pump, 6" 10 Micron 100hp Pump, 9" 10 Micron	
Replaces A-9081	400041-1	**Filter Element** 20X	
	606199-20-9	**Filter Element** 20 Micron (100hp)	
	606199-20	**Filter Element** 20 Micron (50hp)	
	606115-40	**Strainer Tank Filter** 2.50NPT	
	606115-20	**Strainer Tank Filter** 1.25NPT	



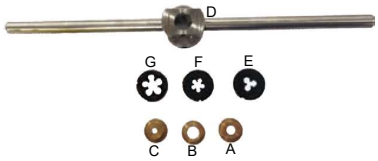
Coning Threading & Bending Kit for HP Tubing 1/4" 3/8" 9/16"

(*Bending kit is for 1/4" & 3/8" only.)

Complete Kit	302025-1
94k Complete Kit	392025-1

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

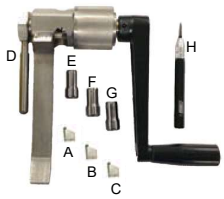
94k Kit Includes:
392024-1, Threading Kit (94k)
302026-1, Coning Kit
302027-1, Bending Kit
400350-1, Tool Box



Threading Kit

1/4" 3/8" 9/16"	302024-1
94k - 1/4" 3/8" 9/16"	392024-1

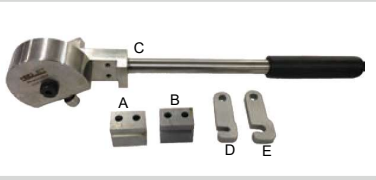
Includes:
A ~ 100280-1, 1/4" Bushing
B ~ 100280-2, 3/8" Bushing
C ~ 100280-3, 9/16" Bushing
D ~ Threading Hand Tool
E ~ 400118-1, 1/4" Die
E ~ 490118-1, 1/4" Die (94k)
F ~ 400118-2, 3/8" Die
G ~ 400118-3, 9/16" Die
Not Shown:
400120-1, Cone & Thread Oil



Coning Kit

1/4" 3/8" 9/16"	302026-1

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
Not Shown:
400120-1, Cone & Thread Oil



Bending Kit

1/4" 3/8"	302027-1

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
Not Shown:
400085-25-20-1.75, Socket Head Screw
400087-25, Flat Washer



Power Coning Tool H2O Jet

1/4"	301064-1
3/8"	301064-2
9/16"	301064-3
Power Coning Kit (1/4",3/8" & 9/16")	302026-3



Power Threading Tool H2O Jet

1/4"	301063-1
3/8"	301063-2
9/16"	301063-3
Power Threading Kit (1/4",3/8" & 9/16")	302024-3



Replacement Threading Die

1/4"	400118-1
94k - 1/4"	490118-1
3/8"	400118-2
9/16"	400118-3



Replacement Coning Bit

1/4"	400136-1
3/8"	400136-2
9/16"	400136-3



Deburring Tool

Tool	400029-8
Replacement Blade	400029-9

Pump Service Tool Kit

302018-1	60k
302018-1-2	60k w/Programmer
302018-2	40k
302018-2-2	40k w/Programmer
302018-4 *See Pg10 for details	EF 75hp - 150hp
302018-4-2 *See Pg10 for details	EF 75hp-150hp w/Programer
392018-1 *See Pg.14 for details	94k

40k 302018-2 Kits Includes:
HP Cylinder Wrench, 301027-1 ~ A
Assembly Bench, 301037-1 ~ B
Shift Pin Tool, 301038-1 ~ C
Torque Tool, 302015-1 ~ D
HP Seal Installation Kit, 302015-2 ~ E
Bleed Down Valve Tool, 302016-1 ~ F
Blue Goop, 400001-1 ~ G
Spanner Wrench, 400025-1 ~ H
Ring Compressor, 400131-1 ~ I
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
Shift Pin Tool, 301038-1 ~ C
Torque Tool, 302015-1 ~ D
HP Seal Installation Kit, 302015-1 ~ E
Bleed Down Valve Tool, 302016-1 ~ F
Blue Goop, 400001-1 ~ G
Spanner Wrench, 400025-1 ~ H
Ring Compressor, 400131-1 ~ I
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



Intensifier Wrench Tool Kit

302018-3	60k & 40k
392018-3 *See Pg.14 for details	94k

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
Socket Adapter 1/2", 400806-1
10" Extension Bar, 400807-1
Hex Key Set, 400808-1
Tourque Wrench 1/4", 400809-1
Hook & Pick Set, 400810-1

60k & 40K Kits Includes:
Spanner Wrench, 400025-1
23" Intensifier Wrench, 400350-3
Wrench 5/15", 400801-.312
Wrench 9/16", 400801-.562
Wrench 13/16", 400801-.812
Wrench 7/8", 400801-.875
Wrench 1", 400801-1.000
Wrench 1-1/16", 4000801-1.062
Wrench 1-1/4", 400801-1.250
Wrench1-1/2", 400801-1.500



Sun Programmer Handheld

610037-1	Module
610037-2	Cable Interface



HP Seal Installation Tool Kit

302015-1	60k
302015-2	40k
302015-3	EF 75hp-150hp - 60k



Replaces 019623-1

Mini Valve Seal Install Tool
392501-1 — 60k & 94k



Intensifier End Cap Torque Tool
301041-1 — 60k & 40k



Rod Oil Seal Tool
100240-1 — Install & Removal



Digital Microscope
400354-1 — EHE V1 USB Plus



	**Gland Nut, HP** 1/4” 3/8” 9/16”	**40k-60k** 400005-1 400005-2 400005-3	Replaces	**100k** 490005-1 490005-2	
	**Anti Vibration Collet & Gland, HP** 1/4” 3/8”	**40k-60k** 400036-1 400036-2	A-0689-1 A-0689-2		
	**Collar, HP** 1/4” 3/8” 9/16”	**40k-60k** 400006-1 400006-2 400006-3	A-2867 A-2839 A-3951	**100k** 490006-1 490006-2	
	**Plug, HP** 1/4” 3/8” 9/16”	**40k-60k** 400007-1 400007-2 400007-3	A-0784-2	**100k** 490007-1 490007-2	
	**Coned Insert, HP** 1/4” 3/8” 9/16”	**40k-60k** 400013-1 400013-2 400013-3		**100k** 490013-1 490013-2	
	**Adapter, HP** 3/8”M x 1/4”F, 2 Pc.	**40k-60k** 400008-1	A-0792	**100k** 490008-1	
	**Adapter, HP** 3/8”M x 1/4”F, One Pc.	**40k-60k** 400008-1-1			
	**Adapter, HP** 1/4”M x 3/8”F	**40k-60k** 400008-2			
	**Adapter, HP** 3/8”M x 9/16”F	**40k-60k** 400008-3			
	**Adapter, HP** 3/8”F x 9/16”M	**40k-60k** 400008-4	A-4691		
	**Adapter, HP** 3/8”M x 1/2”JIC	**40k-60k** 400008-5			
	**Adapter, HP** 9/16”M x 1/4”F	**40k-60k** 400008-8			
	**Adapter, HP** 3/8”F x 9/16”F 1/4”F x 3/8”F 1/4”F x 9/16”F	**40k-60k** 400008-6 400008-9 400008-12			
	**Straight Coupling, HP** 1/4” 3/8” 9/16”	**40k-60k** 400011-1 400011-2 400011-3	A-0780-2	**100k** 490011-1 490011-2	

100k	Replaces	40k - 60k	Elbow, HP	
490009-1		400009-1	1/4”	
490009-2		400009-2	3/8”	
	A-0775-2	400009-3	9/16”	
100k		**40k-60k**	**Tee, HP**	
490012-1		400012-1	1/4”	
490012-2	A-0776-2	400012-2	3/8”	
	A-0776-6	400012-3	9/16”	
100k		**40k-60k**	**Cross, HP**	
		400071-1	1/4”	
490071-2	A-0777-2	400071-2	3/8”	
		400071-3	9/16”	
100k		**40k-60k**	**Straight Valve, 2-way**	
	A-0784-2	400072-1-2	1/4”	
490072-2		400072-2-2	3/8”	
		400072-3-2	9/16”	
		40k-60k	**Straight Valve, Right Angle**	
		400072-1-2-90	1/4”	
		400072-2-2-90	3/8”	
		400072-3-2-90	9/16”	
		40k-60k	**Nipple, HP 1/4” O.D.**	
		400077-3	3” Long	
		400077-4	4” Long	
		400077-6	6” Long	
		400077-8	8” Long	
		400077-11	11” Long	
100k		**40k-60k**	**Nipple, HP 3/8” O.D.**	
490010-3	A-0782-3	400010-3	3” Long	
490010-4		400010-4	4” Long	
490010-6		400010-6	6” Long	
100k		**40k-60k**	**1/4” HP Tubing**	
		400090-1-1	Random 20+’ (316SS)	
		400090-1-1-20	Exact 20’ (316 SS)	
		400090-1-2	Random 20+’ (304 SS)	
		400090-1-2-20	Exact 20’ (304 SS)	
490090-1			Random 20’+ (100k UHP)	
100k			**3/8” HP Tubing**	
		400090-2-1	Random 20+’ (316 SS)	
		400090-2-1-20	Exact 20’ (316 SS)	
		400090-2-2	Random 20+’ (304 SS)	
		400090-2-2-20	Exact 20’ (304 SS)	
490090-2			Random 20’+ (100k UHP)	
100k			**9/16” HP Tubing**	
		400090-3-1	Random 20+’ (316 SS)	
		400090-3-2	Random 20+’ (304 SS)	
		400090-3-2-20	Exact 20’ (304 SS)	
490090-3			Random 20’+ (100k UHP)	
			HP Tubing Clamp Set	
		400082-1	1/4”	
		400082-2	3/8“	
		400082-3	9/16”	

	**Blue Anti Galling Lubricant** 2 oz. Tube	400001-1	Replaces A-2185
	**O-Ring Lubricant Food Grade** 3 oz. Tube	400015-2	
	**O-Ring Lubricant** 2 grams	400034-1	
	**Food Grade Lubricant** 2 grams	400034-2	
	**Coning & Threading Oil** Sulflo #1	400120-1	
	**Jackbolt Lubricant** 16 oz. Can	400001-2	
	**Silver Thread Lubricant** Anti-Seize 4 oz. Can	400001-3	
	**Hydraulic Oil Pressure Guage** Rear Port Bottom Port	 606050-5 606050-6	
	**Water Guage** 80k PSI 100k PSI 100k PSI, .25HP, 4.25”	 400126-1 490126-1 490126-2	
	**Hydraulic Relief Valve** Side Mount, Adjustable Side Mount , Tamper Proof	 400076-1 400096-2	

Advantage Pump Maintenance Kits

302022-1	60k
302022-2	40k

Includes:

- Bleed Down Repair Kit, 302008-1 ~ D
- Hi-Load Piston Ring Kit, 302013-1 ~ E
- Blue Goop, 400001-1 ~ F
- 10mic. Filter Cartridge(x2), 400023-1-10S ~ G
- 1mic. Filter Cartridge (x2), 400023-1-1S ~ H
- Check Valve Repair Kit(x4), 302003-2 ~ A
- (60k) HP Seal Kit(x2), 302004-1 ~ B
- (40k) HP Seal Kit(x2), 302004-2 ~ B
- (60k) Hydraulic Seal Kit, 302007-3 ~ C
- (40k) Hydraulic Seal Kit, 302007-5 ~ C



Advantage EP 94k Pump Maintenance Kit

392022-1	94k

Includes:

- Hi-Load Piston Ring Kit, 392013-1 ~ E
- Silver Thread Lubricant, 400001-3 ~ F
- 10mic. Filter Cartridge(x2), 400023-1-1 ~ G
- 1mic. Filter Cartridge(x2), 400023-1-10 ~ H
- Check Valve Repair Kit (x4), 392003-2 ~ A
- HP Seal Cartridge (x4), 391094-1 ~ B
- 94k Mini On/Off Repair Kit, 392001-1 ~ C
- Hydraulic Seal Kit, 392007-3 ~ D



SMP Pump Maintenance Kits

302022-3	60k
302022-4	40k

Includes:

- Bleed Down Repair Kit, 302008-1 ~ D
- Hi-Load Piston Ring Kit, 302013-1 ~ E
- Blue Goop, 400001-1 ~ F
- 10mic. Filter Cartridge, 400023-1-10 ~ G
- 1mic. Filter Cartridge , 400023-1-1 ~ H
- 6mic. Oil Filter, 606210-6-F ~ I
- Check Valve Repair Kit(x4), 302003-2 ~ A
- (60k) HP Seal Kit(x2), 302004-1 ~ B
- (40k) HP Seal Kit(x2), 302004-2 ~ B
- (60k) Hydraulic Seal Kit, 302007-3 ~ C
- (40k) Hydraulic Seal Kit, 302007-5 ~ C



EF 1.5 GPM Pump Maintenance Kit

302022-5	60k

Includes:

- Blue Goop, 400001-1 ~ E
- 10mic. Filter Cartridge(x2), 400023-1-1S ~ F
- 1mic. Filter Cartridge(x2), 400023-1-10S ~ G
- 10mic. Filter Cartridge, 606210-9-F ~ H
- On/Off Valve Repair Kit, 302001-1 ~ I
- Check Valve Repair Kit(x4), 302003-4 ~ A
- HP Seal Kit(x2), 302004-3 ~ B
- Hydraulic Seal Kit, 302007-6 ~ C
- Hi-Load Piston Ring Kit, 302013-1 ~ D



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 Compatable Parts



Gravity Abrasive Meter
Disk Metered — 700004-2



Rubber Bumper
Abrasive 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 ~ 700002-1, 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
* Mechancial Shift Intensifiers
* Remote Control with Start-Stop, High-Low Pressure and E-Stop features
* Electrical Options: 208/3/60, 240/3/60, 415/3/50, 480/3/60, 575/3/60
* Wye-Delta Starter

Specifications	H100D	H50S or R
Intensifiers	Dual	Single or Redundant
Max Op Pressure	60,000 psi (4150 bar)	60,000 psi (4150 bar)
Flow Rate	2 gpm (7.6 L/min)	1 gpm (3.8 L/min)
Max orifice Size	.020" (.508 mm)	.014" (.36 mm)
Horsepower	100 hp (74.57 kw)	50 hp (37.29 kw)
Hydraulic Res Capacity	80 gal (302.8 L/min)	80 gal (302.8 L/min)
Cooling Water Flow	3-5 gpm (11.4-20 L/min)	3-5 gpm (11.4-20 L/min)
Length	79" (201 cm)	79" (201 cm)
Width	49" (124.5 cm)	49" (124.5 cm)
Height	51" (129.5 cm)	51" (129.5 cm)
Weight	4000 lb (1814 kg)	3500 lb (1588 kg)

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





Specifications	SMP-10	SMP-15	SMP-30	SMP-50
Max Op Pressure	60,000 psi (4150 bar)	60,000 psi (4150 bar)	60,000 psi (4150 bar)	60,000 psi (4150 bar)
Flow Rate	0.24 gpm (0.91 L/min)	0.31 gpm (1.17 L/min)	0.6 gpm (2.27 L/min)	1.0 gpm (3.81 L/min)
Max orifice Size	.007" (.178 mm)	.008" (.203 mm)	.011" (.28 mm)	.014" (.36 mm)
Horsepower	10 hp (7.3 kw)	15 hp (11 kw)	30 hp (22 kw)	50 hp (37 kw)
Hydraulic Res Capacity	25 gal (95 L)	25 gal (95 L)	35 gal (132 L)	50 gal (189 L/min)
Cooling Water Flow	2-4 gpm (7-15 L/min)	2-4 gpm (7-15 L/min)	3-5 gpm (11.4-20 L/min)	3-5 gpm (11.4-20 L/min)
Attenuator Volume	25 cu. in. (.41 L)	25 cu. in. (.41 L)	61 cu.in. (1 L)	61 cu. in. (1 L) Standard
				135 cu. In. (2L) Optional
Length	44" (111 cm)	44" (111 cm)	47" (119 cm)	51.5" (131 cm)
Width	34" (86 cm)	34" (86 cm)	37" (64 cm)	43" (109 cm)
Height	33" (83 cm)	33" (83 cm)	41" (104 cm)	46.4" (118 cm)
Weight	770 lbs (349 kg)	800 lbs (362 kg)	1500 lbs (680 kg)	1800 lbs (816 kg)

H2O Jet continues to set the standard with the *Advantage* Extreme Pressure & Extreme Flow Pump series. These Pumps provides 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)

Specifications	H50S or R EP	H100 EP
Intensifiers	Single or Redundant	Dual
Max Op Pressure	94,000 psi (6481 bar)	94,000 psi (6481 bar)
Flow Rate	.63 gpm (2.38 L/min)	1.26 gpm (4.77 L/min)
Max orifice Size	.010" (.254 mm)	.015" (.381 mm)
Horsepower	50 hp (37.29 kw)	100 hp (74.57 kw)
Hydraulic Res Capacity	80 gal (302.8 L/min)	80 gal (302.8 L/min)
Cooling Water Flow	3-5 gpm (11.4-20 L/min)	3-5 gpm (11.4-20 L/min)
Length	79" (201 cm)	79" (201 cm)
Width	49" (124.5 cm)	49" (124.5 cm)
Height	51" (129.5 cm)	51" (129.5 cm)
Weight	3500 lb (1588 kg)	4300 lb (1950 kg)



ADVANTAGE® EF PUMP FEATURES

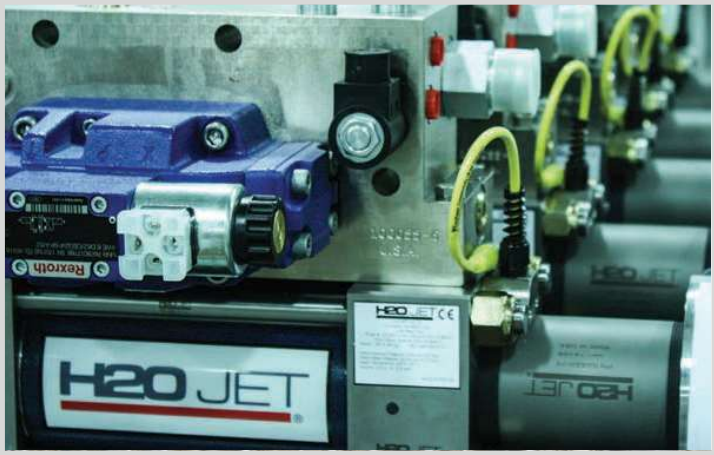
1) Three models supporting orifice sizes up to .024”
2) Up to three gpm flow rate at 60,000 psi
3) Ergonomic, accessible design with removable doors and covers, tabletop intensifier height
4) Constant maximum pressure with minimum pressure fluctuation
6) User-friendly operator interface with touchscreen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

Specifications	H75 S or R EF	H150D EF
Intensifiers	Single or Redundant	Dual
Max Op Pressure	60,000 psi (4150 bar)	60,000 psi (4150 bar)
Flow Rate	1.5 gpm (5.7) L/min)	3.0 gpm (11.4 L/min)
Max orifice Size	.017" (.431 mm)	.024" (.609 mm)
Horsepower	75 hp (55.92 kw)	150 hp (111.85 kw)
Hydraulic Res Capacity	80 gal (302.8 L/min)	80 gal (302.8 L/min)
Cooling Water Flow	3-5 gpm (11.4-20 L/min)	3-5 gpm (11.4-20 L/min)
Length	79" (201 cm)	79" (201 cm)
Width	49" (124.5 cm)	49" (124.5 cm)
Height	51" (129.5 cm)	51" (129.5 cm)
Weight	3600 lb (1633 kg)	4900 lb (2222 kg)













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.

H2O JET®

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