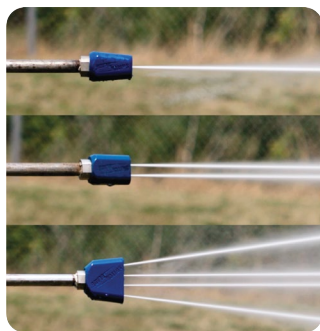


SwitchBlade™ Hydro-Excavation Zero Stream Nozzles

Heavy-Duty, High Impact Nozzles designed for the Hydro-Excavation trenching applications. Completes jobs faster with less down time and dramatically less water consumption. Main body is stainless steel with a non-conductive urethane coating. Tungsten carbide orifices provide longer life than regular stainless steel. Flow orifices can be easily changed out for different soil conditions or wear.

Available in Single, Dual or Quad designs. Order body styles to meet your flow and pressure requirements. Singles and dual bodies are 3.4" long x 2" wide. Quad bodies are 3.4" long x 3.4" wide. Rated to 3,200 PSI and 180° F. Inlet is 1/2" FPT.



Switch Blade™
Ace



Switch Blade™
Deuce



Switch Blade™
Quad



1780XXX
Replacement Nozzle



Nozzle Size Based Off Industry Standard Flow Rates at 4,000 PSI

Nozzle Size	Flow Rate (GPM) SwitchBlade Kits		
	@1000 PSI	@2000 PSI	@3200 PSI
1.0	0.5 GPM	0.7 GPM	0.9 GPM
2.0	1.0 GPM	1.4 GPM	1.8 GPM
3.0	1.5 GPM	2.1 GPM	2.7 GPM
4.0	2.0 GPM	2.8 GPM	3.6 GPM
5.0	2.5 GPM	3.5 GPM	4.5 GPM
6.0	3.0 GPM	4.2 GPM	5.4 GPM
8.0	4.0 GPM	5.6 GPM	7.2 GPM
10.0	5.0 GPM	7.1 GPM	8.9 GPM
12.0	6.0 GPM	8.5 GPM	10.7 GPM
14.0	7.0 GPM	9.9 GPM	12.5 GPM

Part No.	Description
HF 1771-4	Ace Single Switchblade Kit, (1) #4 Nozzle
HF 1771-5	Ace Single Switchblade Kit, (1) #5 Nozzle
HF 1771-6	Ace Single Switchblade Kit, (1) #6 Nozzle
HF 1771-8	Ace Single Switchblade Kit, (1) #8 Nozzle
HF 1771-10	Ace Single Switchblade Kit, (1) #10 Nozzle
HF 1771-12	Ace Single Switchblade Kit, (1) #12 Nozzle
HF 1772-4	Deuce Dual Switchblade Kit, (2) #2 Nozzle
HF 1772-6	Deuce Dual Switchblade Kit, (2) #3 Nozzle
HF 1772-8	Deuce Dual Switchblade Kit, (2) #4 Nozzle
HF 1772-10	Deuce Dual Switchblade Kit, (2) #5 Nozzle
HF 1772-12	Deuce Dual Switchblade Kit, (2) #6 Nozzle
HF 1774-6	Quad Switchblade Kit, (2) #2 & (2) #1 Nozzles.....
HF 1774-8	Quad Switchblade Kit, (4) #2 Nozzles.....
HF 1774-10	Quad Switchblade Kit, (2) #2 & (2) #3 Nozzles.....
HF 1774-12	Quad Switchblade Kit, (4) #3 Nozzles.....
HF 1774-14	Quad Switchblade Kit, (2) #4 & (2) #3 Nozzles.....
HF 1780XXX	Replacement Nozzle, Specify Size. (I.E. 1780050)

Hydro-Excavation Nozzles

Easily Cuts Through Soils While Using Less Water

Hydro Excavation Nozzles from *General Pump*. Designed to easily cut through soils while using less water. Ideal for trenching applications.



Features: Wide flow ranges • High impact, zero degree orifices • Stainless steel body with plastic urethane coating • Hardened stainless orifice inserts can be easily changed for flow rate change or due to normal wear • Compact design: 1-3/4" Long x 2-1/4" wide • Rated to 195° F • Flows to 30 GPM and pressures to 4000 PSI • 1/2" FPT inlet port.



Part No.	Nozzle Equivalent	GPM Flow @3000 PSI
IP HX212	5.0	4.30
IP HX222	6.0	5.20
IP HX232	7.0	6.00
IP HX323	8.0	6.90
IP HX333	9.0	7.80
IP HX343	10	8.65
IP HX434	11	9.50
IP HX444	12	10.4
IP HX454	13	11.3
IP HX545	14	12.1
IP HX555	15	13.0
IP HX565	16	13.9
IP HX656	17	14.7
IP HX666	18	15.6
IP HX676	19	16.4
IP HX767	20	17.3
IP HX777	21	18.2
IP HX787	22	19.0
IP HX878	23	19.9
IP HX888	24	20.8
IP HX898	25	21.6
IP HX989	26	22.5
IP HX999	27	23.4
IP HX9109	28	24.3
IP HX10910	29	25.1
IP HX101010	30	26.0



RipSaw™ Hydro-Excavation Nozzles

Dig Faster . . . Save Water

Heavy-Duty, Rotating Nozzles designed for the Hydro-Excavation industry. Complete your jobs faster with less down time. Zero degree impact with 18° rotating coverage. Operates from 1,000 to 3,200 PSI and up to 180° F.

Standard features are stainless housing, Tungsten Carbide wear surface and non-conductive urethane covers.

Series 2719 has a unique heavy duty urethane cover that works better in extreme environments like frost, shale or rocky conditions that may damage standard covers.

All models have rebuild kits if needed. Inlet port is 1/2" FPT.

2719



0-DEGREE straight water stream rotates to create **18-DEGREE** cone of coverage

Part No.	Cover	Flow @ 3200 PSI
HF 2719-030	HD Urethane	2.7 GPM
HF 2719-040	HD Urethane	3.6 GPM
HF 2719-050	HD Urethane	4.5 GPM
HF 2719-060	HD Urethane	5.4 GPM
HF 2719-080	HD Urethane	7.2 GPM
HF 2719-100	HD Urethane	8.9 GPM
HF 2719-120	HD Urethane	10.7 GPM