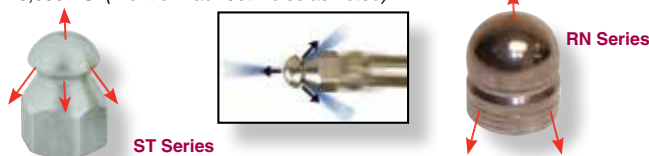


Laser Sewer Nozzles

Laser-Penetrating Nozzles. Have 3 to 4 rear facing jets for thrust and 1 forward jet for cutting and pushing. Ideal for first pass through a blockage with cutting and flushing action. Stainless construction. Available in 1/8" to 1" FPT. 4,000 to 10,000 PSI (*Front or Back Jet Holes as noted*).



Part No.	FPT Inlet	Nozzle Equivalent	Jets	Max. PSI
NP ST47-4	1/8"	4.5 @ 4,000	(1) Front, (3) Back	4,000
NP ST47-5	1/8"	5.5 @ 4,000	(1) Front, (3) Back	4,000
NP ST47-6	1/8"	6.5 @ 4,000	(1) Front, (3) Back	4,000
NP ST49-5	1/4"	4.5 @ 4,000	(1) Front, (3) Back	5,000
NP ST49-6	1/4"	5.5 @ 4,000	(1) Front, (3) Back	5,000
NP ST49-8	1/4"	6.5 @ 4,000	(1) Front, (3) Back	5,000
NP ST49-12	1/4"	7.0 @ 4,000	(1) Front, (3) Back	5,000
NP ST49-14	1/4"	8.0 @ 4,000	(1) Front, (3) Back	5,000
NP ST49-15	1/4"	12 @ 4,000	(1) Front, (3) Back	5,000
NP ST494	3/8"	4.5 @ 4,000	(1) Front, (3) Back	5,000
NP ST491	3/8"	5.5 @ 4,000	(1) Front, (3) Back	5,000
NP ST499	3/8"	6.5 @ 4,000	(1) Front, (3) Back	5,000
NP ST492	3/8"	8.0 @ 4,000	(1) Front, (3) Back	5,000
NP ST493	3/8"	12 @ 4,000	(1) Front, (3) Back	5,000
NP ST497	3/8"	12 @ 4,000	(1) Front, (4) Back	4,000
NP RN508	1/2"	8.0 @ 4,000	(1) Front, (3) Back	10,000
NP RN5010	1/2"	10 @ 4,000	(1) Front, (3) Back	10,000
NP RN5015	1/2"	15 @ 4,000	(1) Front, (3) Back	10,000
NP RN5020	1/2"	20 @ 4,000	(1) Front, (3) Back	10,000
NP RN7520	3/4"	20 @ 4,000	(1) Front, (4) Back	10,000
NP RN7530	3/4"	30 @ 4,000	(1) Front, (4) Back	10,000
NP RN7540	3/4"	40 @ 4,000	(1) Front, (4) Back	10,000
NP RN7560	3/4"	60 @ 4,000	(1) Front, (4) Back	10,000
NP RN10040	1"	40 @ 4,000	(1) Front, (4) Back	10,000
NP RN10060	1"	60 @ 4,000	(1) Front, (4) Back	10,000
NP RN10080	1"	80 @ 4,000	(1) Front, (4) Back	10,000

Ram-Pusher/Flushing Nozzles

Ram Sewer Nozzles feature 3-6 rear facing jets and NO forward jet. Ideal for pushing through blockages and flushing debris at the same time. Best used after Laser Nozzles cut through blockage first. Stainless steel construction. 1/8" to 1" FPT. 4,000 and 10,000 PSI. (*Front or Back Jet Holes as noted*).

Part No.	FPT Inlet	Nozzle Equivalent	Jets	Max. PSI
AA TRS40	1/8"	4.0 @ 4,000	(3) Back	4,000
AA TRS45	1/8"	4.5 @ 4,000	(3) Back	4,000
AA TRS55S1F	1/8"	5.5 @ 4,000	(3) Back	4,000
AA TRS60	1/8"	6.5 @ 4,000	(3) Back	4,000
AA TRS90	1/8"	9.0 @ 4,000	(3) Back	4,000
AA TR45R	1/4"	4.5 @ 4,000	(3) Back	4,000
AA TR55RR	1/4"	5.5 @ 4,000	(3) Back	4,000
AA TR60R	1/4"	6.0 @ 4,000	(3) Back	4,000
AA TR90R	1/4"	9.0 @ 4,000	(3) Back	4,000
AA TR120R	1/4"	12 @ 4,000	(3) Back	4,000
NP RNH258	1/4"	8.0 @ 4,000	(4) Back	10,000
NP RNH2512	1/4"	12 @ 4,000	(4) Back	10,000
NP RNH374	3/8"	4.0 @ 4,000	(4) Back	10,000
NP RNH376	3/8"	6.0 @ 4,000	(4) Back	10,000
NP TRA70	3/8"	7.0 @ 4,000	(4) Back	4,000
NP RNH378	3/8"	8.0 @ 4,000	(4) Back	10,000
NP RNH3712	3/8"	12 @ 4,000	(4) Back	10,000
NP RNH508	1/2"	8.0 @ 4,000	(5) Back	10,000
NP RNH5010	1/2"	10 @ 4,000	(5) Back	10,000
NP RNH5015	1/2"	15 @ 4,000	(5) Back	10,000
NP RNH5020	1/2"	20 @ 4,000	(5) Back	10,000
NP RNH7520	3/4"	20 @ 4,000	(5) Back	10,000
NP RNH7530	3/4"	30 @ 4,000	(5) Back	10,000
NP RNH7540	3/4"	40 @ 4,000	(5) Back	10,000
NP RNH7560	3/4"	60 @ 4,000	(5) Back	10,000
NP RNH10040	1"	40 @ 4,000	(6) Back	10,000
NP RNH10060	1"	60 @ 4,000	(6) Back	10,000
NP RNH10080	1"	80 @ 4,000	(6) Back	10,000

Typical Flow Rates & Pipe Size

Nozzles & Hose Size	Pipe Diameter	Flow Rates
1/8" I.D.	1" to 2"	1 - 4 GPM
1/4" I.D.	2" to 3"	2 - 4 GPM
3/8" I.D.	2" to 4"	4 - 6 GPM
1/2" I.D.	4" to 6"	8 - 20 GPM
3/4" I.D.	4" to 8"	20 - 60 GPM
1" I.D.	4" to 10"	30 - 70 GPM
1-1/4" I.D.	5" to 12"	70 - 120 GPM

Cornering-Pusher Nozzles

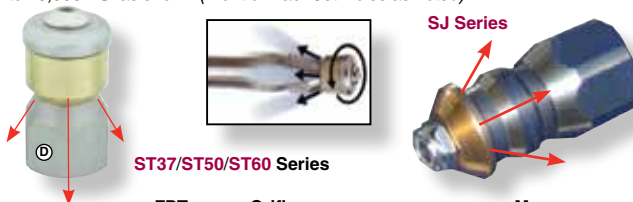
Cornering-Pusher Nozzles usually features a single jet at 90 degrees to the rear facing jets. This helps to force the nozzle through tight bends and turns. Best when used after or in conjunction with Laser nozzles. *Other flow rates available.*



Part No.	FPT Inlet	Nozzle Size	Jets	Max. PSI
AA TC45CC	1/4"	4.5 @ 4,000	(1) 90°, (2) Back	4,000
AA TC55C	1/4"	5.5 @ 4,000	(1) 90°, (2) Back	4,000
NP RNH25C8	1/4"	8 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH25C12	1/4"	12 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH37C6	3/8"	6 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH37C8	3/8"	8 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH37C12	3/8"	12 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH50C8	1/2"	8 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH50C10	1/2"	10 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH50C15	1/2"	15 @ 4,000	(1) 90°, (3) Back	10,000
NP RNH50C20	1/2"	20 @ 4,000	(1) 90°, (3) Back	10,000

Rotating Sewer Nozzles

Rotating Sewer Nozzles feature a Ram Design with (3) or (4) rear orifices and no front orifice. ST Series have 90- & 45° etc. Off-set jets on a free spinning rotor provides 360° coverage. Available in 1/8" to 1" FPT. Stainless construction. Rated from 3,000 to 10,000 PSI as shown (*Front or Back Jet Holes as noted*).

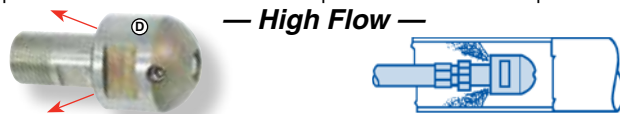


Part No.	FPT Inlet	Orifice Equivalent	Jets	Max. PSI
NP ST25-45	1/8"	4.5 @ 3,000	(3) Back	3,000
NP ST25-55	1/8"	5.5 @ 3,000	(3) Back	3,000
NP ST25-6	1/8"	6.0 @ 4,000	(3) Back	4,000
NP ST25-7	1/8"	7.0 @ 4,000	(3) Back	4,000
NP ST25-8	1/8"	8.0 @ 4,000	(3) Back	4,000
NP ST37-5	1/8"	5.0 @ 4,000	(3) Back	7,000
NP ST37-7	1/8"	7.0 @ 4,000	(3) Back	7,000
NP ST50-45	1/4"	4.5 @ 3,000	(3) Back	3,000
NP ST50-55	1/4"	5.5 @ 3,000	(3) Back	3,000
NP ST50-6	1/4"	6.0 @ 4,000	(3) Back	4,000
NP ST50-7	1/4"	7.0 @ 4,000	(3) Back	4,000
NP ST50-8	1/4"	8.0 @ 4,000	(3) Back	4,000
NP SJ2512	*1/4"	12 @ 4,000	(2) 90°, (2) Back	10,000
NP ST51-85	3/8"	8.5 @ 3,000	(3) Back	3,000
NP ST60-5	3/8"	5.0 @ 4,000	(3) Back	4,000
NP ST60-6	3/8"	6.0 @ 4,000	(3) Back	4,000
NP ST60-8	3/8"	8.0 @ 4,000	(3) Back	4,000
NP ST60-10	3/8"	10 @ 4,000	(3) Back	4,000
NP ST60-12	3/8"	12 @ 4,000	(2) 90°, (2) Back	4,000
NP SJ378	*3/8"	6.0 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ378	*3/8"	8.0 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ3712	*3/8"	12 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ508	*1/2"	8.0 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ5010	*1/2"	10 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ5015	*1/2"	15 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ5020	*1/2"	20 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ7520	*3/4"	20 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ7530	*3/4"	30 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ7540	*3/4"	40 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ7560	*3/4"	60 @ 4,000	(2) 90°, (2) Back	10,000
AR ST100-50	1"	50 @ 3,600	(4) 90°, (6) Back	3,600
AR ST100-70	1"	70 @ 3,600	(4) 90°, (6) Back	3,600
NP SJ10040	*1"	40 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ10060	*1"	60 @ 4,000	(2) 90°, (2) Back	10,000
NP SJ10080	*1"	80 @ 4,000	(2) 90°, (2) Back	10,000

* 90° and 45° Jets

Drain Cleaning Nozzle

High Flow Drain Cleaning Nozzle is rated to 16 GPM at up to 3000 PSI. Designed to clean pipes from 1-1/2" to 5" diameter. Ram design has orifices at 45° angles pointing backward which propels the nozzle forward when in operation and cleans as the nozzle is pulled back. 3/8" Male Pipe Thread.



Part No.	Max. Pressure	Max. GPM
IP NT16	3000	16