Spraying Systems Co.®
Experts in Spray Technology

GUNJET®
SPRAY GUNS

spray.com

GUNJET® SPRAY GUNS

Whatever your application, you're sure to find a solution for your cleaning and rinsing needs in our comprehensive line of hand-held spray guns. Options range from a gentle low-pressure spray to a high-impact, high-pressure solid stream.

All of our spray guns are durable and efficient. Many of our guns also feature:

- Specially designed handles to improve control and reduce operator fatigue
- Smooth-pull triggers to enable accurate and consistent flow control
- Textured grips to minimize the chance for slippage and accidents

A complete line of accessories compliments our spray guns. Front extensions, inlet/outlet adapters, swivel connectors and strainers are available to ensure easy, trouble-free operation.

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THE PRODUCTS YOU NEED AND PERFORMANCE YOU CAN COUNT ON

You'll find a wide variety of handheld spray guns in this catalog but you can also visit spray.com to see tens of thousands additional spray products. Featured products on spray.com include hydraulic spray nozzles, air atomizing nozzles, automatic hydraulic and pneumatic nozzles, tank cleaning equipment, air nozzles and nozzles for specialized operations like descaling, trim squirt, spray drying, fire protection and more. We offer nozzles in more sizes and materials than any other supplier, so you're sure to find a product that delivers the performance you need.

PRECISE, DEPENDABLE PRODUCT QUALITY

Your satisfaction is important to us. Our products are manufactured to exacting standards to deliver the promised performance each and every time you order. We are ISO 9001:2008 and 14001:2004 certified. Products ship only after undergoing our rigorous quality control and testing programs. If you have any concerns about the quality of any of our products, contact us immediately. We will address your issues and take corrective action as needed.

PRODUCTS WHEN YOU NEED THEM

Most of our spray nozzles are readily available and will be shipped within days of your order. If you need expedited service, let us know. Our ten manufacturing locations are strategically located around the world to help ensure we can get our products where they are needed quickly and cost-effectively.

SPECIAL REQUIREMENTS? TELL US WHAT YOU NEED

If one of our standard products isn't quite right for your equipment, just let us know. Customization can range from simple changes in materials to specially-designed nozzles to meet exacting performance requirements.

We work with hundreds of OEMs and provide services like these:

- Special nozzle designs
- Private labeling with unique part numbers
- Special packaging
- Customized maintenance and operating instructions

THE SERVICES YOU NEED, WHEN AND WHERE YOU NEED THEM

OUR SOLE FOCUS ON SPRAY TECHNOLOGY ENSURES RESULTS IN YOUR OPERATIONS

Since spray technology is all we do, we have a level of expertise that can't be matched. Our sales engineers are factory-trained and only sell our spray products. Need to increase throughput in a coating operation? Eliminate waste or lower scrap? Cool products more quickly? Suppress dust? Minimize water and chemical use in cleaning operations? Just give us a call. With sales offices on six continents and more than 90 sales offices, we are in your area and ready to help.

WHAT CUSTOMERS SAY ABOUT OUR SERVICE

"We are very pleased with Spraying Systems Co. Wish all vendors were as good."

"Very pleased – awesome is the best way to describe Spraying Systems Co. service."

"A+ on service. Sales engineer responded quickly and visited my facility to review various product options for my application."

"Rep always provides prompt answers. Knows the full product line inside and out."

"I get more technical support from Spraying Systems Co. than any other vendor."

"The local rep came right out – didn't even know the size of the project at the time."

"Spraying Systems Co. provides solutions – not just parts."

"More knowledgeable than any other equipment company we work with."

"We get the products we need, when we need them. Each and every time we order."

HOW YOU CAN BENEFIT FROM SPRAY SYSTEM OPTIMIZATION

WAYS TO LEARN MORE

EXPERT ADVICE AT YOUR PLANT

No-charge spray system evaluation – Your local sales engineer will inspect your current spray operations and provide suggestions on how to improve efficiency. Evaluations can focus on a specific area such as reducing water or compressed air use, tank cleaning, automation opportunities and more.

Complimentary Lunch and Learn workshops – Select a topic, choose a date and invite your colleagues. We'll provide lunch and an informative 60-minute session. Popular topics include *Spray Nozzle Basics, Understanding Drop Size and How to Reduce Use of Costly Chemicals*.

Spray demos and proof-of-concept trials at your facility – Your local sales engineer will conduct demos and tests on-site so you can see how a product will work in your environment. When operating conditions don't allow an on-site demo or test, other arrangements can be made.

TESTS AND DEMONSTRATIONS AVAILABLE AT REGIONAL SPRAY TECHNOLOGY CENTERS

Throughout North America, we have several Spray Technology Centers. These facilities are equipped to conduct proof-of-concept tests and technology demonstrations. Seminars including live demonstrations on various topics are also conducted throughout the year. Schedules vary by region so contact your local sales engineer for information.

MULTI-DAY SEMINARS FOR ADVANCED LEARNING

An in-depth seminar on the atomization and spraying of liquids is conducted twice a year at our facility in Wheaton, IL. Attendees spend time in the classroom and our fully equipped spray laboratories and participate in spray characterization tests. More information is available from your local sales engineer and at sprayconsultants.com.

EDUCATIONAL RESOURCES

Video demonstrations and tutorials on spray.com and YouTube.com/sprayingsystems

Explore our video library and learn about new spray products and techniques; best practices in maintenance procedures; what to look for in a spray pattern and more.

Technical guides and white papers on spray.com

- *Optimizing Your Spray System,* Technical Manual 410
- *Change the Way You Spray to Maximize Water Conservation,* Technical Manual 415
- White paper series addresses topics ranging from spray automation, solving clogging problems, water conservation and more

Case studies on spray.com

More than 75 case studies demonstrate the benefits other processors have experienced through spray optimization. See spray.com/results.

Catalogs on spray.com

- Air Atomizing and Automatic Air Atomizing Nozzles
- Industrial Hydraulic Spray Products
- TankJet® Tank Cleaning Products
- WindJet® Air Products
- SprayDry® Nozzles
- Spray Technology for Steelmaking
- Spray Technology for Pulp and Papermaking
- Car Wash Products
- GunJet® Handheld Spray Guns
- Plus dozens of market- and product-specific technical bulletins

ORDERING PRODUCTS

In each product section, you'll find ordering examples. Start by reviewing the example and then create the part number by indicating the gun model, material and capacity size.

GunJet Model	–	Material Code	–	Capacity

Example

CU150A	–	AL	–	22

For your convenience, there are multiple ways to place an order: phone, fax and online.

In North America
Phone: 1.800.95.SPRAY | Fax: 1.888.95.SPRAY

Outside North America
Phone: 1.630.665.5000 | Fax: 1.630.260.0842

Online ordering with a credit card is also available. Visit spray.com/ispray. You'll find helpful selection tools and a Live Chat option for immediate assistance.

FINDING PRODUCTS

- Consult the Product Index on **page i-2** if you know the name of the product
- Consult the Part Number Index on **page i-3** if you have the part number. Part numbers are shown numerically and alpha-numerically

Selection assistance is also available by calling **1.800.95.SPRAY.** Representatives in your local sales office will help you determine which products best meet your application requirements. (Call **1.630.665.5000** outside North America or visit spray.com to find information for the sales office in your area.)

TECHNICAL REFERENCE

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BASIC NOZZLE CHARACTERISTICS

Spray nozzles are precision components designed to yield very specific performance under specific conditions. To help you determine the best nozzle type for your application, the following chart summarizes the performance that each nozzle type is designed to deliver. Visit youtube.com/sprayingsystems for video demonstrations of spray patterns.

FLAT (EVEN) NOZZLES

- Provides even distribution of medium-sized drops throughout the thin, rectangular spray pattern
- When used on a header, nozzles are positioned for edge-to-edge pattern contact

FULL CONE NOZZLES

- Uses a unique internal vane design to produce a solid cone-shaped spray pattern
- Spray pattern consists of medium- to large-sized drops

FLAT SPRAY (TAPERED) NOZZLES

- Produces a tapered-edge flat spray pattern
- Used on spray headers to provide uniform coverage as a result of overlapping distributions

ATOMIZING (HYDRAULIC, FINE MIST) NOZZLES

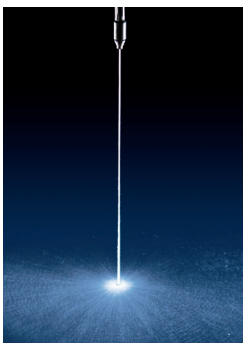
- Produces a finely atomized, low capacity spray in a hollow cone pattern without use of compressed air

FLAT SPRAY (DEFLECTED-TYPE) NOZZLES

- Uses a deflector surface to form an even flat spray pattern consisting of medium-sized drops
- Large free passage design reduces clogging through the round orifice

AIR ATOMIZING AND AIR ASSISTED NOZZLES

- Produces a variety of cone and flat spray patterns through atomization of liquid by compressed air
- Internal mix impingement atomization forms very fine drops



SOLID STREAM NOZZLES

- Produces a solid stream spray with the highest impact per unit area

CAPACITY – FLUID CAPACITY VARIES WITH SPRAYING PRESSURE

The relationship of pressure and flow with a given orifice is:

$$\frac{Q_1}{Q_2} \sim \frac{(P_1)^n}{(P_2)^n}$$

Q = Flow Rate (in gpm or lpm)
P = Liquid pressure (in psi or bar)
n = Flow exponent

To approximate any unknown flow or pressure, use this formula when the other variables are known. The "n" exponent is used to approximate the ratio of pressure to flow based on the type of spray pattern.

Example:

To determine the flow rate of water for a 1/4G-10 standard full cone nozzle at 150 psi or at 10 bar, consult the performance charts in this catalog.

You will find that:

- The spray angle is 65°
- Flow (Q_1) at 40 psi = 1.9 gpm
- Pressure (P_1) = 40 psi
- Pressure (P_2) = 150 psi

Solving for Q_2 = 3.5 gpm

$$Q_2 = \frac{Q_1}{(P_1/P_2)^n} = \frac{1.9 \text{ gpm}}{(40/150)^{.46}}$$

- The spray angle is 65°
- Flow (Q_1) at 3 bar = 7.5 lpm
- Pressure (P_1) = 3 bar
- Pressure (P_2) = 10 bar

Solving for Q_2 = 13 lpm

$$Q_2 = \frac{Q_1}{(P_1/P_2)^n} = \frac{7.5 \text{ lpm}}{(3/10)^{.46}}$$

FLOW EXPONENT FOR SPECIFIC NOZZLE TYPES

Nozzle Type	Exponent "n"
Hollow Cone Nozzles – All Full Cone Nozzles – Vaneless, 15° and 30° Series Flat Spray Nozzles – All Solid Stream Nozzles – All Spiral Nozzles – All	.50
Full Cone Nozzles – Standard, Square, Oval and Large Capacity	.46
Full Cone Nozzles – Wide Spray and Wide Square Spray	.44

Visit spray.com/sprayware for online flow rate and spray coverage calculators.

SPECIFIC GRAVITY

All capacity tabulations in this catalog are based on water. Since the specific gravity of a liquid affects its flow rate, tabulated catalog capacities must be multiplied by the conversion factor that applies to the specific gravity of the liquid being sprayed as explained below.

Specific gravity is the ratio of the density of a fluid compared to the density of water. The specific gravity of water is defined as 1. When spraying fluids other than water, specific gravity must be considered in the flow calculations.

$$Q_2 = Q_1(\text{water}) \times \frac{1}{\sqrt{SG}}$$

Using the previous example:

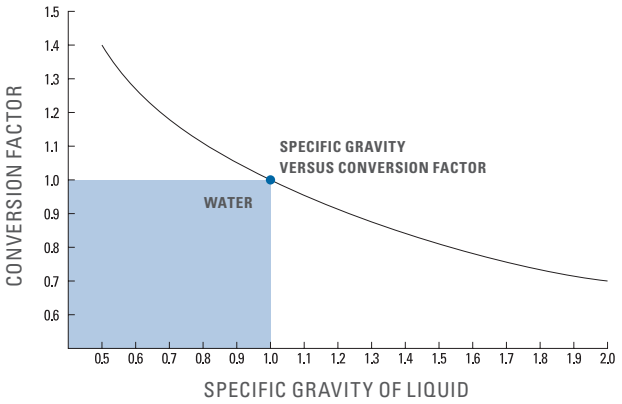
- Fluid sprayed is heavier than water and has a specific gravity of 1.4
- Flow of water at 150 psi = 3.5 gpm
- Heavy fluid (Q_2) = Q_1(water)*1/√1.4

Q_2 = 3.5 gpm*1/√1.4 = 2.95 gpm

- Fluid sprayed is heavier than water and has a specific gravity of 1.4
- Flow of water at 10 bar = 13 lpm
- Heavy fluid (Q_2) = Q_1(water)*1/√1.4

Q_2 = 13 lpm*1/√1.4 = 11 lpm

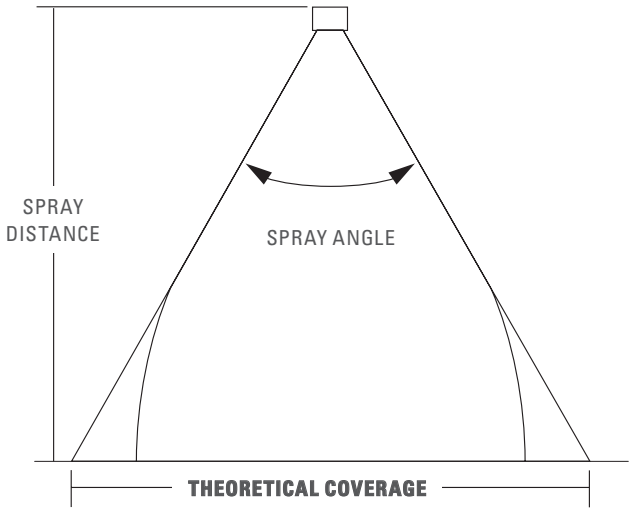
SPECIFIC GRAVITY VERSUS CONVERSION FACTOR



KEY: Conversion factor multiplied by the capacity of the nozzle when spraying water gives the capacity of the nozzle when spraying a liquid with a specific gravity corresponding to the conversion factor. This conversion factor accounts only for the effect of specific gravity on capacity and does not account for other factors affecting capacity.

SPRAY ANGLE AND COVERAGE

Tabulated spray angles indicate approximate spray coverage based on spray or distribution of water. In actual spraying, the effective spray angle varies with spray distance. Liquids more viscous than water form relatively smaller spray angles (or even a solid stream), depending upon viscosity, nozzle capacity and spraying pressure. Liquids with surface tensions lower than water will produce relatively wider spray angles than those listed for water. This table lists the theoretical coverage of spray patterns as calculated from the included spray angle of the spray and the distance from the nozzle orifice. Values are based on the assumption that the spray angle remains the same throughout the entire spray distance. In actual practice, the tabulated spray angle does not hold for long spray distances. If the spray coverage requirement is critical, request data sheets for specific spray coverage data.



Example: A spray nozzle with an angle of 65° spraying 15" (39 cm) from the target provides 19.2" (48.8 cm) of coverage

THEORETICAL SPRAY COVERAGE AT VARIOUS DISTANCES IN INCHES (CM) FROM NOZZLE ORIFICE

Spray Angle	2 in.	5 cm	4 in.	10 cm	6 in.	15 cm	8 in.	20 cm	10 in.	25 cm	12 in.	30 cm	15 in.	40 cm	18 in.	50 cm	24 in.	60 cm	30 in.	70 cm	36 in.	80 cm	48 in.	100 cm
5°	.2	.4	.4	.9	.5	1.3	.7	1.8	.9	2.2	1.1	2.6	1.3	3.5	1.6	4.4	2.1	5.2	2.6	6.1	3.1	7.0	4.2	8.7
10°	.4	.9	.7	1.8	1.1	2.6	1.4	3.5	1.8	4.4	2.1	5.3	2.6	7.0	3.1	8.8	4.2	10.5	5.2	12.3	6.3	14.0	8.4	17.5
15°	.5	1.3	1.1	2.6	1.6	4.0	2.1	5.3	2.6	6.6	3.2	7.9	3.9	10.5	4.7	13.2	6.3	15.8	7.9	18.4	9.5	21.1	12.6	26.3
20°	.7	1.8	1.4	3.5	2.1	5.3	2.8	7.1	3.5	8.8	4.2	10.6	5.3	14.1	6.4	17.6	8.5	21.2	10.6	24.7	12.7	28.2	16.9	35.3
25°	.9	2.2	1.8	4.4	2.7	6.7	3.5	8.9	4.4	11.1	5.3	13.3	6.6	17.7	8.0	22.2	10.6	26.6	13.3	31.0	15.9	35.5	21.2	44.3
30°	1.1	2.7	2.1	5.4	3.2	8.0	4.3	10.7	5.4	13.4	6.4	16.1	8.1	21.4	9.7	26.8	12.8	32.2	16.1	37.5	19.3	42.9	25.7	53.6
35°	1.3	3.2	2.5	6.3	3.8	9.5	5.0	12.6	6.3	15.8	7.6	18.9	9.5	25.2	11.3	31.5	15.5	37.8	18.9	44.1	22.7	50.5	30.3	63.1
40°	1.5	3.6	2.9	7.3	4.4	10.9	5.8	14.6	7.3	18.2	8.7	21.8	10.9	29.1	13.1	36.4	17.5	43.7	21.8	51.0	26.2	58.2	34.9	72.8
45°	1.7	4.1	3.3	8.3	5.0	12.4	6.6	16.6	8.3	20.7	9.9	24.9	12.4	33.1	14.9	41.4	19.9	49.7	24.8	58.0	29.8	66.3	39.7	82.8
50°	1.9	4.7	3.7	9.3	5.6	14.0	7.5	18.7	9.3	23.3	11.2	28.0	14.0	37.3	16.8	46.6	22.4	56.0	28.0	65.3	33.6	74.6	44.8	93.3
55°	2.1	5.2	4.2	10.4	6.3	15.6	8.3	20.8	10.3	26.0	12.5	31.2	15.6	41.7	18.7	52.1	25.0	62.5	31.2	72.9	37.5	83.3	50.0	104
60°	2.3	5.8	4.6	11.6	6.9	17.3	9.2	23.1	11.5	28.9	13.8	34.6	17.3	46.2	20.6	57.7	27.7	69.3	34.6	80.8	41.6	92.4	55.4	115
65°	2.5	6.4	5.1	12.7	7.6	19.1	10.2	25.5	12.7	31.9	15.3	38.2	19.2	51.0	22.9	63.7	30.5	76.5	38.2	89.2	45.8	102	61.2	127
70°	2.8	7.0	5.6	14.0	8.4	21.0	11.2	28.0	14.0	35.0	16.8	42.0	21.0	56.0	25.2	70.0	33.6	84.0	42.0	98.0	50.4	112	67.2	140
75°	3.1	7.7	6.1	15.4	9.2	23.0	12.3	30.7	15.3	38.4	18.4	46.0	23.0	61.4	27.6	76.7	36.8	92.1	46.0	107	55.2	123	73.6	153
80°	3.4	8.4	6.7	16.8	10.1	25.2	13.4	33.6	16.8	42.0	20.2	50.4	25.2	67.1	30.3	83.9	40.3	101	50.4	118	60.4	134	80.6	168
85°	3.7	9.2	7.3	18.3	11.0	27.5	14.7	36.7	18.3	45.8	22.0	55.0	27.5	73.3	33.0	91.6	44.0	110	55.0	128	66.0	147	88.0	183
90°	4.0	10.0	8.0	20.0	12.0	30.0	16.0	40.0	20.0	50.0	24.0	60.0	30.0	80.0	36.0	100	48.0	120	60.0	140	72.0	160	96.0	200
95°	4.4	10.9	8.7	21.8	13.1	32.7	17.5	43.7	21.8	54.6	26.2	65.5	32.8	87.3	39.3	109	52.4	131	65.5	153	78.6	175	105	218
100°	4.8	11.9	9.5	23.8	14.3	35.8	19.1	47.7	23.8	59.6	28.6	71.5	35.8	95.3	43.0	119	57.2	143	71.6	167	85.9	191	114	238
110°	5.7	14.3	11.4	28.6	17.1	42.9	22.8	57.1	28.5	71.4	34.3	85.7	42.8	114	51.4	143	68.5	171	85.6	200	103	229	–	286
120°	6.9	17.3	13.9	34.6	20.8	52.0	27.7	69.3	34.6	86.6	41.6	104	52.0	139	62.4	173	83.2	208	104	243	–	–	–	–
130°	8.6	21.5	17.2	42.9	25.7	64.3	34.3	85.8	42.9	107	51.5	129	64.4	172	77.3	215	103	257	–	–	–	–	–	–
140°	10.9	27.5	21.9	55.0	32.9	82.4	43.8	110	54.8	137	65.7	165	82.2	220	98.6	275	–	–	–	–	–	–	–	–
150°	14.9	37.3	29.8	74.6	44.7	112	59.6	149	74.5	187	89.5	224	112	299	–	–	–	–	–	–	–	–	–	–
160°	22.7	56.7	45.4	113	68.0	170	90.6	227	113	284	–	–	–	–	–	–	–	–	–	–	–	–	–	–
170°	45.8	114	91.6	229	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Visit spray.com/sprayware for online flow rate and spray coverage calculators.

PUMPS

Every operation using spray nozzles requires a method to provide fluid flow. Fluid flow can be provided by gravity, air pressure or mechanical pumps. It is important to understand that pumping systems provide flow, not pressure. Pressure is the result of restricting flow. The output of an unrestricted pump is 0 psi (bar). When a restriction is placed in the flow, line pressure will result.

The main types of pumps are positive displacement and centrifugal. There are others, but the operational principles are the same as for positive displacement and centrifugal pumps.

Positive displacement pumps

A fixed volume of fluid is delivered for every stroke of a piston, or plunger or rotation of a shaft. Examples include piston pumps, plunger pumps, peristaltic pumps and gear pumps. Positive displacement pumps provide high pressure, and regardless of the system characteristics, will deliver a fixed flow every rotation. These pumps must have an unrestricted bypass valve and a pressure relief valve.

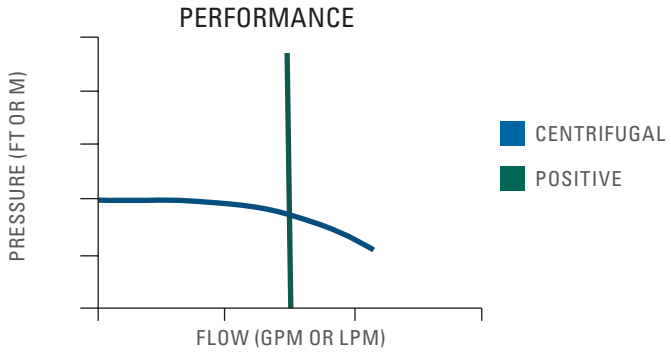
Centrifugal pumps (velocity pumps)

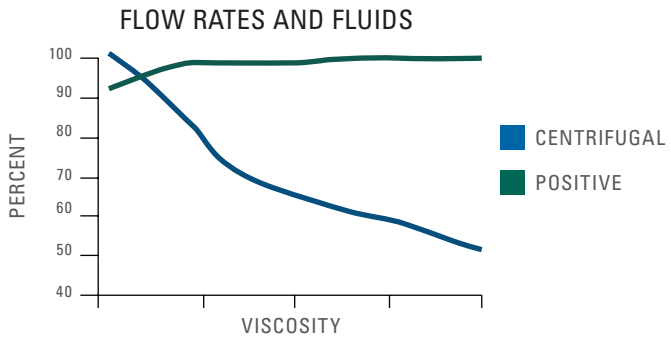
These pumps typically consist of a large vane (impeller) which is turned by a shaft inside a cavity (casing). The geometry of the impeller and casing moves the fluid in a tangential motion. The fluid gets restricted to a smaller volume and is then discharged into the system piping. These types of pumps typically operate at low pressure and high volume. They may also consist of several stages to increase the number of pressures available. These pumps have the unique feature of being able to run while the outlet is blocked. Since the pumps are velocity based, the impeller will spin in the casing fluid without "dead heading" the system itself. It will produce heat and may cavitate the fluid, but it will not build pressure like positive displacement pumps. However, a system bypass and pressure safety valve is still installed in the system to protect components.

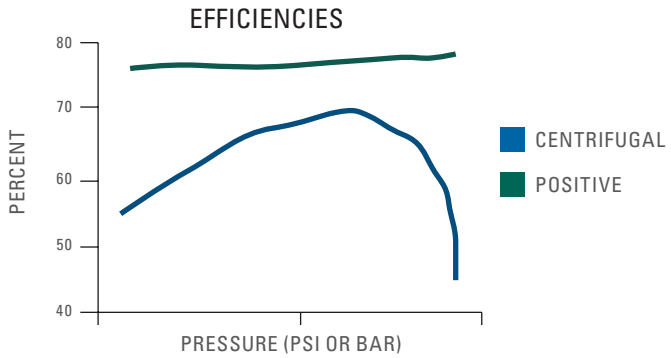
HOW PUMP TYPE AFFECTS NOZZLE SELECTION

The flow rates and pressures required by the system will determine the pump choice. There are many styles, sizes and types of pumps available but these general guidelines should prove helpful.

- High flows usually require a centrifugal style pump
- High pressures usually require a positive displacement pump
- Variable Frequency Drive (VFD) pumps may be an option. These pumps allow variable control of speed and flow rates
- Consider the fluid. Specific gravity will affect pump flow rates just as it affects nozzle flow rates
- Pump efficiencies, heat, available power, maintenance and plant conditions should also be considered







ESTIMATING PRESSURE DROPS THROUGH FLUIDLINE ACCESSORIES

The rated capacities listed in this catalog for valves, strainers and fittings typically correspond to pressure drops of approximately 5% of their maximum operating pressure.

Visit spray.com/sprayware for an online pressure drop calculator. Or contact your local sales engineer.

APPROXIMATE FRICTION LOSS IN PIPE FITTINGS IN EQUIVALENT FEET (METERS) OF STRAIGHT PIPE

Use the chart below to determine the equivalent length of pipe through fittings to equate the friction loss.

Pipe Size Standard Wt. (in.)	Actual Inside Dia. in. (mm)	Gate Valve FULL OPEN ft. (m)	Globe Valve FULL OPEN ft. (m)	45° Elbow ft. (m)	Run of Standard Tee ft. (m)	Standard Elbow or Run of Tee Reduced 1/2 ft. (m)	Standard Tee Through Side Outlet ft. (m)
1/8	.269 (6.8)	.15 (.05)	8.0 (2.4)	.35 (.11)	.40 (.12)	.75 (.23)	1.4 (.43)
1/4	.364 (9.2)	.20 (.06)	11.0 (3.4)	.50 (.15)	.65 (.20)	1.1 (.34)	2.2 (.67)
1/2	.622 (15.8)	.35 (.11)	18.6 (5.7)	.78 (.24)	1.1 (.34)	1.7 (.52)	3.3 (1.0)
3/4	.824 (21)	.44 (.13)	23.1 (7.0)	.97 (.30)	1.4 (.43)	2.1 (.64)	4.2 (1.3)
1	1.049 (27)	.56 (.17)	29.4 (9.0)	1.2 (.37)	1.8 (.55)	2.6 (.79)	5.3 (1.6)
1-1/4	1.380 (35)	.74 (.23)	38.6 (11.8)	1.6 (.49)	2.3 (.70)	3.5 (1.1)	7.0 (2.1)
1-1/2	1.610 (41)	.86 (.26)	45.2 (13.8)	1.9 (.58)	2.7 (.82)	4.1 (1.2)	8.1 (2.5)
2	2.067 (53)	1.1 (.34)	58 (17.7)	2.4 (.73)	3.5 (1.1)	5.2 (1.6)	10.4 (3.2)
2-1/2	2.469 (63)	1.3 (.40)	69 (21)	2.9 (.88)	4.2 (1.3)	6.2 (1.9)	12.4 (3.8)
3	3.068 (78)	1.6 (.49)	86 (26)	3.6 (1.1)	5.2 (1.6)	7.7 (2.3)	15.5 (4.7)
4	4.026 (102)	2.1 (.64)	113 (34)	4.7 (1.4)	6.8 (2.1)	10.2 (3.1)	20.3 (6.2)
5	5.047 (128)	2.7 (.82)	142 (43)	5.9 (1.8)	8.5 (2.6)	12.7 (3.9)	25.4 (7.7)
6	6.065 (154)	3.2 (.98)	170 (52)	7.1 (2.2)	10.2 (3.1)	15.3 (4.7)	31 (9.4)

AIR FLOW (SCFM AND NLPM) THROUGH SCHEDULE 40 STEEL PIPE

Applied Pressure psig	Nominal Standard Pipe Size (scfm)											Applied Pressure bar	Nominal Standard Pipe Size (nlpm)										
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
5	.5	1.2	2.7	4.9	6.6	13.0	27	40	80	135	240	0.3	14.2	34.0	76.5	139	187	370	765	1130	2265	3820	6796
10	.8	1.7	3.9	7.7	11.0	21	44	64	125	200	370	0.7	22.7	48.1	110	218	310	595	1245	1810	3540	5665	10480
20	1.3	3.0	6.6	13.0	18.5	35	75	110	215	350	600	1.4	36.8	85.0	187	370	525	990	2125	3115	6090	9910	16990
40	2.5	5.5	12.0	23	34	62	135	200	385	640	1100	2.8	70.8	155	340	650	960	1755	3820	5665	10900	18120	31150
60	3.5	8.0	18.0	34	50	93	195	290	560	900	1600	4.1	99.1	227	510	965	1415	2630	5520	8210	15860	25485	45305
80	4.7	10.5	23	44	65	120	255	380	720	1200	2100	5.5	133	297	650	1245	1840	3400	7220	10760	20390	33980	59465
100	5.8	13.0	29	54	80	150	315	470	900	1450	2600	6.9	164	370	820	1530	2265	4250	8920	13310	25485	41060	73625

FLOW OF WATER THROUGH SCHEDULE 40 STEEL PIPE – PRESSURE DROP

Flow	Pressure Drop in psi for Various Pipe Diameters 10 ft. Length Pipe																Flow	Pressure Drop in bar for Various Pipe Diameters 10 m Length Pipe														
gpm	1/8"	¼"	3/8"	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"	lpm	1/8"	¼"	3/8"	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"	6"	8"
.3	.42																1	.07															
.4	.70	.16															1.5	.16	.04														
.5	1.1	.24															2	.26	.06														
.6	1.5	.33															2.5	.40	.08														
.8	2.5	.54	.13														3	.56	.12	.03													
1.0	3.7	.83	.19	.06													4	.96	.21	.05	.02												
1.5	8.0	1.8	.40	.12													6	2.0	.45	.10	.03												
2.0	13.4	3.0	.66	.21	.05												8	3.5	.74	.17	.05	.01											
2.5		4.5	1.0	.32	.08												10		1.2	.25	.08	.02											
3.0		6.4	1.4	.43	.11												12		1.7	.35	.11	.03											
4.0		11.1	2.4	.74	.18	.06											15		2.6	.54	.17	.04	.01										
5.0			3.7	1.1	.28	.08											20			.92	.28	.07	.02										
6.0			5.2	1.6	.38	.12											25			1.2	.45	.11	.03										
8.0			9.1	2.8	.66	.20	.05										30			2.1	.62	.15	.04	.01									
10				4.2	1.0	.30	.08										40				1.1	.25	.08	.02									
15					2.2	.64	.16	.08									60					.54	.16	.04	.02	.006							
20					3.8	1.1	.28	.13	.04								80					.93	.28	.07	.03	.009							
25						1.7	.42	.19	.06								100						.43	.12	.05	.01							
30						2.4	.59	.27	.08								115						.58	.14	.06	.015							
35						3.2	.79	.36	.11	.04							130						.72	.18	.08	.02	.01						
40							1.0	.47	.14	.06							150							.23	.10	.03	.012						
45							1.3	.59	.17	.07							170							.29	.13	.04	.016						
50							1.6	.72	.20	.08							190							.36	.16	.05	.02						
60							2.2	1.0	.29	.12	.04						230							.50	.23	.07	.03	.009					
70								1.4	.38	.16	.05						260								.32	.09	.04	.01					
80								1.8	.50	.20	.07						300								.38	.11	.04	.02	.007				
90								2.2	.62	.25	.09	.04					340								.50	.14	.06	.02	.009				
100								2.7	.76	.31	.11	.05					380								.61	.18	.07	.03	.01				
125									1.2	.47	.16	.08	.04				470									.28	.11	.04	.02	.009			
150									1.7	.67	.22	.11	.06				570									.39	.15	.05	.03	.01			
200									2.9	1.2	.39	.19	.10				750									.64	.26	.09	.04	.02	.007		
250											.59	.28	.15	.05			950											.14	.06	.03	.01		
300											.84	.40	.21	.07			1150											.19	.09	.05	.02		
400												.70	.37	.12	.05		1500												.16	.08	.03	.01	
500													.57	.18	.07		1900													.13	.04	.02	
750														.39	.16	.04	2800														.09	.03	.009
1000														.68	.27	.07	3800														.16	.06	.02
2000															1.0	.26	7500															.23	.06

Recommended capacity range for each size is shown in shaded areas.
For pipe lengths greater than 10 ft. (3 m), the pressure loss is proportional to the length. For 50 ft. (15 m) of pipe, the pressure drop is approximately 5 times the value in the table.

MAINTAINING SPRAY NOZZLES

Like any precision component, spray nozzles wear over time. Spray nozzle wear can be hard to detect. Small changes in performance can result in quality problems and wasted water, chemicals and electricity. The cost of using worn nozzles can be very significant – tens of thousands of dollars or more per year. Detecting nozzle wear in the early stages can prevent a significant profit drain.

USING NOZZLES THAT ARE SPRAYING JUST 15% OVER THE RATED CAPACITY*

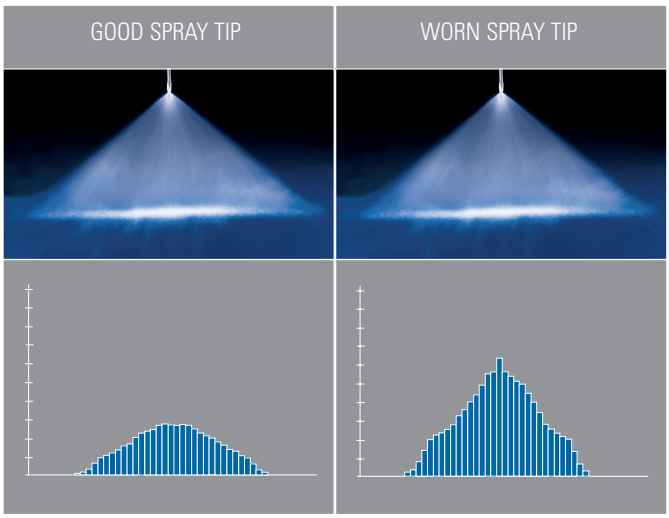
	WASTE	COST OF EXCESS
WATER	1,701,835 gallons (6,442,146 liters)	US $4,680
CHEMICALS	170,165 gallons (644,145 liters)	US $170,164
WASTEWATER DISPOSAL	1,872,000 gallons (7,086,291 liters)	US $7,956
TOTAL COST OF USING WORN NOZZLES:		**US $182,800**

*Based on total system flow of 100 gpm (379 lpm). Water cost of US $2.75/1000 gallons (3,785 liters). Chemical cost of US $1.00 per gallon (liter) and a dilution ratio of 10:1. System operates 2080 hours per year. Increased electricity cost, scrap and downtime due to quality problems are not included.

DETECTING WORN SPRAY NOZZLES

Visually inspecting nozzles is a start but unless wear is significant, it may not be detectable.

The graphic below illustrates this problem. The spray tip on the left is new and sprays properly. The spray tip on the right is worn and sprays 30% over capacity. The difference is undetectable by inspecting the nozzle, but spray collection data reveals the difference between the two tips.



WATCH FOR THESE SIGNS OF NOZZLE WEAR:

- **Quality control issues and increased scrap.** Check for uneven coating, cooling, drying or cleaning and changes in temperature, dust content and humidity
- **Flow rate change:**
  - For centrifugal pumps: monitor flow meter readings to detect increases or collect and measure the flow from the spray nozzle for a given period of time at a specific pressure and compare them to flow rate readings from new, unused spray nozzles
  - For positive displacement pumps: monitor the liquid line pressure for decreases; the flow rate will remain constant
- **Spray pressure in the nozzle manifold:**
  - For centrifugal pumps: monitor for increases in liquid volume sprayed. The spraying pressure is likely to remain the same
  - For positive displacement pumps: monitor pressure gauge for decreases in pressure and reduction in impact on sprayed surfaces. The liquid volume sprayed is likely to remain the same. Also, monitor for increases in pressure due to clogged spray nozzles
- **Deterioration of spray pattern quality.** Visually inspect the spray pattern for changes. Check the spray angle with a protractor. Measure the width of the spray pattern on the sprayed surface

REPLACING WORN NOZZLES

Inspecting and maintaining your nozzles on a regular basis will help identify wear and extend service life. However, wear will occur over time and the only solution is to replace your nozzles.

Here are a few guidelines to help you determine the optimal replacement interval:

- Are worn nozzles affecting product or process quality? If so, replace nozzles as soon as any wear is evident
- Is water conservation a priority? If so, replace nozzles as soon as wear is evident
- How much are you spending by continuing to use worn nozzles? How do the additional costs for water, chemicals, electricity and wastewater disposal compare with the cost of replacement nozzles?
- Is precise spray performance important to your overall process? If so, you may want to set pre-determined dates for nozzle replacement such as annual or semi-annual maintenance shutdowns

For more information on nozzle maintenance and replacement, visit spray.com. Or, contact your local sales engineer for assistance developing a nozzle maintenance program.

TABLE OF EQUIVALENTS

VOLUMETRIC UNIT

	Cubic Centimeter	Fluid Ounce	Pound of Water	Liter	US Gallon	Cubic Foot	Cubic Meter
Cubic Centimeter	•	.034	2.2 x 10–3	.001	2.64 x 10–4	3.53 x 10–5	1.0 x 10–6
Fluid Ounce	29.4	•	.065	.030	7.81 x 10–3	1.04 x 10–3	2.96 x 10–5
Pound of Water	454	15.4	•	.454	.12	.016	4.54 x 10–4
Liter	1000	33.8	2.2	•	.264	.035	.001
US Gallon	3785	128	8.34	3.785	•	.134	3.78 x 10–3
Cubic Foot	28320	958	62.4	28.3	7.48	•	.028
Cubic Meter	1.0 x 106	3.38 x 104	2202	1000	264	35.3	•

LIQUID PRESSURE

	lb/In² (psi)	Ft Water	Kg/Cm²	Atmosphere	Bar	Inch Mercury	kPa (kilopascal)
lb/In² (psi)	•	2.31	.070	.068	.069	2.04	6.895
Ft Water	.433	•	.030	.029	.030	.882	2.99
Kg/Cm²	14.2	32.8	•	.968	.981	29.0	98
Atmosphere	14.7	33.9	1.03	•	1.01	29.9	101
Bar	14.5	33.5	1.02	.987	•	29.5	100
Inch Mercury	.491	1.13	.035	.033	.034	•	3.4
kPa (kilopascal)	.145	.335	.01	.009	.01	.296	•

LINEAR UNIT

	Micron	Mil	Millimeter	Centimeter	Inch	Foot	Meter
Micron	•	.039	.001	1.0 x 10–4	3.94 x 10–5	–	–
Mil	25.4	•	2.54 x 10–2	2.54 x 10–3	.001	8.33 x 10–5	–
Millimeter	1000	39.4	•	.10	.0394	3.28 x 10–3	.001
Centimeter	10000	394	10	•	.394	.033	.01
Inch	2.54 x 104	1000	25.4	2.54	•	.083	.0254
Foot	3.05 x 105	1.2 x 104	305	30.5	12	•	.305
Meter	1.0 x 106	3.94 x 104	1000	100	39.4	3.28	•

MISCELLANEOUS UNIT

Unit	Equivalent	Unit	Equivalent
Ounce	28.35 Gr.	Acre	43.560 ft²
Pound	.4536 Kg.	Fahrenheit (°F)	= 9/5 (°C) + 32
Horse-Power	.746 Kw.	Celsius (°C)	= 5/9 (°F – 32)
British Thermal Unit	.2520 Kg. Cal.	Circumference of a Circle	= 3.1416 x D
Square Inch	6.452 cm²	Area of a Circle	= .7854 x D2
Square Foot	.09290 m²	Volume of a Sphere	= .5236 x D3
Acre	.4047 Hectare	Area of a Sphere	= 3.1416 x D2

DIMENSIONS

The catalog tabulations show orifice dimensions as “Nom.” (nominal). Specific dimensions are available on request.

READ THE FOLLOWING INSTRUCTIONS:

WARNING:
All safety related and operating instructions should be read before the nozzle is operated. Follow all operating instructions. Failure to do so could result in serious or fatal injury.

WARNING:
It is important to recognize proper safety precautions when using a pressurized spray system. Fluids under pressure can penetrate skin and cause severe injury. Seek medical attention immediately.

WARNING:
When dealing with pressure applications, the system pressure should never exceed the lowest rated component. Always know your system and all component capabilities, maximum pressures and flow rates.

WARNING:
Before performing any maintenance, make sure all liquid supply lines to the machine are shut off and/or disconnected and chemicals/fluids are drained and not pressurized.

WARNING:
The use of any chemicals requires careful control of all worker hygiene. Follow all MSDS or safety precautions provided by the manufacturer.

WARNING:
Spraying Systems Co. does not manufacture or supply any of the chemicals used with our nozzles and is not responsible for their effects. Because of the large number of chemicals that could be used and their different chemical reactions, the buyer and user of this equipment should determine compatibility of the materials used and any of the potential hazards involved.

WARNING:
Spraying Systems Co. strongly recommends the use of appropriate safety equipment when working with potentially hazardous chemicals.

This equipment includes but is not limited to:

- Protective hat
- Safety glasses or face shield
- Chemical-resistant gloves and apron
- Long sleeve shirt and long pants

WARNING:
Before use, be sure appropriate connections are secure and made to withstand weight and reaction forces of the operating unit.

NOTE: Always remember to carefully read the chemical manufacturer's label and follow all directions.

WARNING:
It is important to operate equipment within the temperature range of all components. Also, insure appropriate time lapse or proper safety equipment is used when handling components after they're exposed to high temperatures.

WARNING:
Do not use any equipment outside the intended purposes of the product. Misuse can result in personal injury or product damage.

LOW PRESSURE
GUNJET® SPRAY GUNS

HOT WATER WASHDOWN
RINSING · CHEMICAL DOSING
PEST CONTROL · SANITIZING
AIR BLOW-OFF · COOLING PARTS
PRODUCE WASHING

LOW PRESSURE SPRAY GUNS

- Ergonomic designs assure positive control and operator comfort even at maximum flow and pressure conditions
- Sturdy design and materials mean long, productive equipment life
- Versatile GunJet® low pressure spray guns are designed for use with a wide variety of spray tips to meet particular pattern and flow specifications
- Adjustable spray patterns and air atomizing sprays provided by some models
- Handles remain comfortable even during hot spraying operations
- Adapters convert thread sizes, allowing the attachment of optional accessories
- Extensions available for many models to improve spray gun stability
- Trigger locks prevent accidental discharge when the gun is not in use
- In-line swivels provide smooth 360° operation, eliminating hose kinking and reducing operator fatigue
- In-line strainers available to prevent clogging and improve purity of sprayed liquid
- Spare parts kits available for easy maintenance

LOW PRESSURE SPRAY GUNS

TABLE OF CONTENTS

LOW PRESSURE GUNJET® SPRAY GUNS

OVERVIEW:

LOW PRESSURE GUNJET SPRAY GUNS

- Capacity ranging from 2 gpm (7.6 lpm) to 22 gpm (83 lpm)
- Maximum pressure ranging from 75 psi (5 bar) to 250 psi (17 bar)
- Sturdy design and materials ensure long, productive equipment life
- Designed for use with a wide variety of spray tips to meet particular pattern and flow specifications

See page B7 for gun and tip compatibility table and pages E10-E11 for specific tip information.

LOW PRESSURE GUNJET SPRAY GUN OPTIONS

AA30L

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 200°F (93°C)

Capacity: 5 gpm (19 lpm)

Material: Brass or polypropylene valve body with nylon handle

Trigger lock and guard

Light trigger pull

Front hose connection keeps grip cool

AA30-20940

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 300°F (150°C)

Capacity: 10 gpm (38 lpm)

Material: Brass valve body with nylon handle

Trigger lock and guard

Light trigger pull

Trigger-activated variable spray pattern

Front hose connection keeps grip cool

23624-30L

Max. operating pressure: 75 psi (5 bar)

Max. temperature: 200°F (93°C)

Capacity: 1 to 16 ml dosage range

Material: Brass valve body with nylon handle

Trigger lock and guard

Adjustable metering assembly

Auto recharge

AA60-21580

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 300°F (150°C)

Capacity: 16 gpm (60 lpm)

Material: Brass or stainless steel valve body with nylon handle

Trigger lock and guard

Trigger-activated variable spray pattern

Front hose connection keeps grip cool

LOW PRESSURE GUNJET SPRAY GUN OPTIONS

CU150A

Max. operating pressure: 150 psi (10 bar)

Max. temperature: 200°F (93°C)

Capacity: 10 to 22 gpm (38 to 83 lpm)

Material: Brass, aluminum or stainless steel valve body

Black or white rubber outer cover

Color bands for easy identification of flow capacities

Adjustable spray pattern from hollow cone to solid stream

Optional swivel connector with trigger lock

22650-PP TriggerJet®

Max. operating pressure: 150 psi (10 bar)

Max. temperature: 120°F (50°C)

Capacity: 2 gpm (7.6 lpm)

Material: Polypropylene valve body

Trigger lock

Corrosion-resistant lightweight design

Choice of threaded or hose inlet connection

UniJet® strainer option

23623-31-1/4F MeterJet®

Max. operating pressure: 75 psi (5 bar)

Max. temperature: 200°F (93°C)

Capacity: 1 to 16 ml metering range

Material: Brass valve body

Special spring available for low dosage applications

Adjustable metering

Auto recharge

Visual charging indicator

AA36 Trigger Valve

Max. operating pressure: 150 psi (10 bar)

Max. temperature: 140°F (60°C)

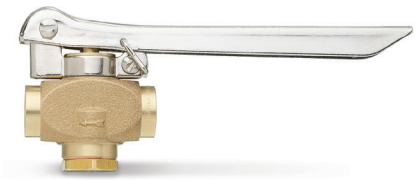
Capacity: 7 gpm (27 lpm)

Material: Brass or stainless steel valve body

Trigger lock

Internal strainer with choice of mesh sizes

Quick acting "on-off" valve



D41663-18JAN00V-0H-PA/SS

Max. operating pressure: 75 psi (5 bar)

Max. temperature: 158°F (70°C)

Capacity: 3.9 gpm (14.7 lpm)

Material: Stainless steel with nylon handle

Used with standard air atomizing setups

Removable adapter and grip for easy cleaning

Hose connectors can be turned in any position

Specially designed soft grip improves control and reduces operator fatigue

Handle remains comfortable during hot spraying operations

AA43LC

Max. operating pressure: 200 psi (14 bar)

Max. temperature: 200°F (93°C)

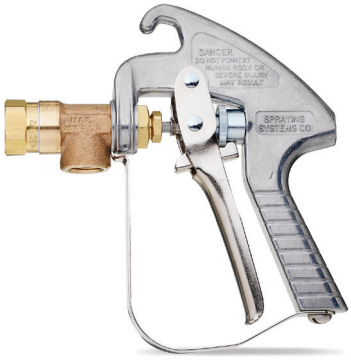
Capacity: 15 gpm (57 lpm)

Material: Brass, aluminum or stainless steel valve body with aluminum handle

Trigger lock and guard

Front inlet

Designed to withstand high impact



LOW PRESSURE GUNJET SPRAY GUN OPTIONS

4688

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 140°F (60°C)

Capacity: 2 gpm (7.6 lpm)

Material: Brass or stainless steel valve body

Trigger lock

Quick acting "on-off" valve

Trigger designed for ease and comfort in operation

6104

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 140°F (60°C)

Capacity: 2 gpm (7.6 lpm)

Material: Brass or stainless steel valve body

Trigger lock

Same as 4688 except with 1/4" NPT or BSPT (F) inlet and outlet connections

6466

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 140°F (60°C)

Capacity: 2 gpm (7.6 lpm)

Material: Brass or stainless steel valve body

Internal strainer with choice of mesh sizes

Extra long trigger

6590

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 140°F (60°C)

Capacity: 2 gpm (7.6 lpm)

Material: Brass or stainless steel valve body

Trigger lock

Extra long trigger

MATERIAL	CODE
Aluminum	AL
Brass	No code
Polypropylene	PP
Stainless steel	SS

ORDERING INFORMATION

COMPLETE SPRAY GUN ASSEMBLY

GunJet Model	–	Material Code	–	Capacity

Example: **CU150A** – **AL** – **22**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: BCU150A.

COMPLETE SPRAY GUN ASSEMBLY

GunJet Model	–	Material Code	–	Inlet Conn.

Example: **22650** – **PP** – **1/4**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B22650.

SPECIFICATIONS

Model	Max. Operating Pressure psi (bar)	Capacity gpm (lpm)	Max. Temperature °F (°C)	Inlet Conn. in.	Outlet Conn. in.	Weight oz. (kg)	Spray Tips	Extensions	Adapters/ Swivel Connectors	Spare Parts Kits
AA30L	250 (17)	5 (19)	200 (93)	1/4 NPT or BSPT (F)	11/16–16 UniJet® THD	15 (.43)	TB, TG, TK, TN, TPU, TX UniJet	4673, 6671, 6960, 7715, 9004-SS, 9527, 9702A, 9702C, 9702S, 12086, 13781S, 14975	4676, 20897	AB30L-KIT AB30L-PP-KIT AB30L-VI-KIT
AA30-20940	250 (17)	10 (38)	300 (150)	1/4 NPT or BSPT (F)	–	12 (.34)	–	–	20897	AB30-20940-KIT
23624-30L	75 (5)	1 to 16 ml dosage range	200 (93)	1/4 NPT or BSPT (F)	11/16–16 UniJet THD	24 (.68)	TG, TK, TN, TX UniJet	–	–	AB23624-30L-KIT
AA60-21580	250 (17)	16 (60)	300 (150)	3/8 NPT or BSPT (F)	–	19.25 (.55)	–	–	20897	AB60-21580-KIT, AB60-21580A-KIT
CU150A	150 (10)	10 to 22 (38 to 83)	200 (93)	1/2 NPT or BSPT (F)	–	36 (1)	–	–	36466, 36467	AB63140-KIT
CU150A-AL						22 (.62)				
CU150A-SS						32 (.91)				AB63140-316EPR-KIT
22650-PP	150 (10)	2 (7.6)	120 (50)	1/4, 3/8 hose or 1/4 NPT or BSPT (F)	11/16–16 UniJet THD	3 (.08)	5500-PPB ConeJet®	22665	22664, 22673	AB22650-PP-KIT
23623-31	75 (5)	1 to 16 ml metering range	200 (93)	1/4 NPT or BSPT (F)	11/16–16 UniJet THD	21 (.60)	UniJet	–	20897	AB-23623-31-KIT
AA36	150 (10)	7 (27)	140 (60)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPT or BSPT (F)	11 (.32)	HH FullJet®, VeeJet®	20400-1/4M, 20400-1/8F	4272, 4725, 4754, 5820	AB36-KIT, AB36-SS-KIT, AB36-21140-KIT
D41663-18JAN00V-OH	75 (5)	Liquid: 15 l/min at 0.5 Mpa (5), Air: 33 Nm3/h at 0.5 Mpa (5)	158 (70)	1/4 NPT or BSPT (F)	1/4 NPT or BSPT (F)	13 (.36)	1/8J, 1/4J air atomizing set-ups	–	–	–
AA43LC	200 (14)	15 (57)	200 (93)	1/2, 3/4 NPT or BSPT (F)	1/2, 3/4 NPT or BSPT (F)	35.25 (1)	FloodJets, FullJets, VeeJets	–	7029, 11990, 13212	AB43-KIT, AB43-AL-KIT
4688	250 (17)	2 (7.6)	140 (60)	1/4 NPT or BSPT (F)	11/16–16 UniJet THD	5 (.14)	TB, TG, TK, TN, TP, TPU, TX UniJet	4673, 6671, 9004-SS, 9527, 9702A, 9702C, 9702S, 12086, 13781S, 14975, 15699	4676	AB4688-KIT
6104	250 (17)	2 (7.6)	140 (60)	1/4 NPT or BSPT (F)	1/4 NPT or BSPT (F)	5 (.14)	FullJets, H-U, H-VV VeeJet	20400-1/4M, 20400-1/8F, CP12087	4676	AB6104-KIT
6466	250 (17)	2 (7.6)	140 (60)	1/4 NPT or BSPT (F)	11/16–16 UniJet THD	5 (.14)	TB, TG, TK, TN, TP, TPU, TX UniJet	4673, 6671, 9004-SS, 9527, 9702A, 9702C, 9702S, 12086, 13781S, 14975, 15699	4676	AB6466-KIT
6590	250 (17)	2 (7.6)	140 (60)	1/4 NPT or BSPT (F)	1/4 NPT or BSPT (F)	6 (.16)	FullJets, H-U, H-VV VeeJet	20400-1/4M, 20400-1/8F, CP12087	4676	AB6590-KIT

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional configuration options.
See Spraying Systems Co. Hydraulic Spray Products Catalog 75 for spray tip performance data.

EXTENSIONS FOR LOW PRESSURE GUNJET SPRAY GUNS

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**6960**	100 (7)	11/16–16 UniJet® THD	11/16–16 UniJet THD	Brass	8.5 (216)	Siphon with adjustable flow
	**4673**	125 (8.6)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	18 (457) 24 (610) 30 (762) 36 (914)	Curved with swivel nozzle body
	**22665**	150 (10)	11/16–16 UniJet THD	11/16–16 UniJet THD	Polyester	15 (381) 24 (610)	
	**14975**	250 (17)	11/16–16 UniJet THD	1/8 NPT or BSPT (M)	Brass	10 (254) 18 (457)	
	**6671**	250 (17)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (609) 30 (762) 36 (914) 48 (1219)	Curved body
		500 (35)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 18 (457) 24 (609) 30 (762) 36 (914) 48 (1219)	
	**7715**	250 (17)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 12 (305) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219)	
		500 (35)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 12 (305) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219)	
	**9527**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	Curved, rubber insulated
	**15699**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	Rubber insulated. (8"/203 mm length not rubber insulated)
	**12086**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Aluminum with brass ferrules	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	
	**CP12087**	1000 (69)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Aluminum	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**9702A**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Projects spray at 90° angle to inlet. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702C**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Curved body. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702S**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**13781S**	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254) 16 (406) 48 (1219)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
	**20400-1/4M**	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**20400-1/8F**	3000 (207)	1/4 NPT or BSPT (M)	1/8 NPT or BSPT (F)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**9004-SS**	4000 (275)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	4 (101.6) 8 (203) 12 (305) 18 (457) 24 (610) 36 (914) 40 (1016) 60 (1524) 72 (1829) 84 (2133) 96 (2438)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

ORDERING INFORMATION

COMPLETE EXTENSION ASSEMBLY

Extension Type	–	Extension Length	–	Material Code

Example

7715	–	**18**	–	**SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B20400.

MATERIAL	CODE
Aluminum	AL
Brass	No code
Polyester	PYR
Mild steel	I
Stainless steel	SS
Zinc-plated steel	IZP

ADAPTERS FOR LOW PRESSURE GUNJET SPRAY GUNS

Adapter	Adapter Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material
	**14269**	125 (8.6)	3/4" garden hose (F)	1/4 NPS or NPT (F)	Brass
	**20897**	125 (8.6)	3/4" garden hose (F)	1/4 NPT or BSPT (M)	Brass
	**13212**	150 (10.4)	3/4" garden hose (F)	3/8, 1/2 NPT or BSPT (M)	Brass
	**22664 (straight)** **22673 (45°)**	150 (10.4)	11/16–16 UniJet® THD	11/16–16 UniJet THD	Polypropylene
	**7029**	500 (34.4)	3/4" garden hose (F)	1/2 NPT or BSPT (M)	Brass
	**4676** **4676-__-SS**	1000 (69) 2000 (138)	11/16–16 UniJet THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Brass Stainless steel

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional options.

ORDERING INFORMATION

COMPLETE ADAPTER ASSEMBLY

Adapter Type – Inlet Conn. – Material Code

Example: **4676** – **1/8** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B4676.

MATERIAL	CODE
Brass	No code
Polypropylene	PP
Stainless steel	SS

SPARE PARTS KITS FOR LOW PRESSURE GUNJET SPRAY GUNS

Spare Parts Kit	Kit includes:
AB30L-KIT	Valve seat, stem sub-assembly, cup packing, gasket, spring
AB30L-VI-KIT	
AB30L-PP-KIT	Cap, valve seat, cup packing
AB30-20940-KIT	Cap sub-assembly, valve seat ring & tip sub-assembly, stem sub-assembly, packing cup, gasket
AB36-KIT	O-rings, washer, valve seat, valve spring, gasket
AB36-SS-KIT	O-rings, washer, valve seat, valve spring
AB36-21140-KIT	Valve stem, O-rings, gasket, spring
AB43-KIT	Gasket, seat plug, seat plate, washer & core sub-assembly, packing washer, packings
AB43-AL-KIT	
AB60-21580-KIT	Pintle, seat, main stem & seat holder sub-assembly, spring, cup packing, back-up ring, seat plug gasket
AB60-21580A-KIT	

Spare Parts Kit	Kit includes:
AB4688-KIT	Gasket, valve spring, valve stem sub-assembly, guide sleeve, O-ring
AB6104-KIT	Gasket, valve spring, valve stem sub-assembly, guide sleeve, O-ring
AB6466-KIT	Gasket, valve spring, valve stem sub-assembly, guide sleeve, O-ring
AB6590-KIT	Gasket, valve spring, valve stem sub-assembly, guide sleeve, O-ring
AB22650-PP-KIT	Spring, diaphragm, O-ring
AB23623-31-KIT	Packings, spring, stem sub-assembly, valve seat, O-ring
AB23624-30L-KIT	Valve seat, main stem sub-assembly, O-ring, cup packing, gasket, spring
AB63140-KIT	Main stem, O-ring, rivet
AB63140-316EPR-KIT	

MEDIUM PRESSURE
GUNJET® SPRAY GUNS

ADHESIVE SPRAY · PARTS WASHING
AIR BLOW-OFF · FILTER CLEANING
PRODUCT COATING · CAR WASHING
PAINTING · CHEMICAL COATING

MEDIUM PRESSURE SPRAY GUNS

- Ergonomic designs assure positive control and operator comfort even at maximum flow and pressure conditions
- Sturdy design and materials mean long, productive equipment life
- Designed for use with UniJet® spray tips to meet a wide variety of pattern and flow specifications
- Standard one-piece nozzles, such as VeeJet® flat spray nozzles, can be used when mated with proper adapters
- Handles remain comfortable even during hot spraying operations
- Adapters convert thread sizes, allowing the attachment of optional accessories
- Extensions available for many models to improve spray gun stability
- For safety, trigger guards are designed to prevent accidental discharge
- In-line swivels provide smooth 360° operation, eliminating hose kinking and reducing operator fatigue
- In-line strainers available to prevent clogging and improve purity of sprayed liquid
- Spare parts kits available for easy maintenance

MEDIUM PRESSURE SPRAY GUNS

TABLE OF CONTENTS

MEDIUM PRESSURE GUNJET® SPRAY GUNS

OVERVIEW:
MEDIUM PRESSURE GUNJET SPRAY GUNS

- Capacity ranging from 5 gpm (19 lpm) to 15 gpm (57 lpm)
- Maximum pressure ranging from 250 psi (17 bar) to 1000 psi (69 bar)
- Available outlet adapters convert any standard thread allowing the attachment of many optional accessories
- Designed for use with UniJet spray tips to meet a wide variety of pattern and flow specifications

See page C6 for gun and tip compatibility table and pages E10-E11 for specific tip information.

MEDIUM PRESSURE GUNJET SPRAY GUN OPTIONS

36533-60

Max. operating pressure: 600 psi (41 bar)

Max. temperature: 200°F (93°C)

Capacity: 12 gpm (45 lpm)

Material: Brass or stainless steel valve body with nylon handle

Trigger lock and guard

Smooth and easy to operate

Designed to withstand high impact

AA23L

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 200°F (93°C)

Capacity: 5 gpm (19 lpm)

Material: Nickel-plated steel valve body with aluminum handle (23L-SS features stainless steel inlet body and tip retainer)

Trigger guard

Four finger trigger for ease of operation

AA23L-45885

Max. operating pressure: 250 psi (17 bar)

Max. temperature: 200°F (93°C)

Capacity: 5 gpm (19 lpm)

Material: Nickel-plated steel valve body with aluminum handle

Trigger guard

Stop adjusting nut provides metered flow capabilities

Tapered needle

Threaded valve seat

AA23H

Max. operating pressure: 1000 psi (69 bar)

Max. temperature: 200°F (93°C)

Capacity: 5 gpm (19 lpm)

Material: Nickel-plated steel valve body with aluminum handle (23H-SS features stainless steel inlet body and tip retainer)

Trigger guard

Four finger trigger for ease of operation

MEDIUM PRESSURE GUNJET SPRAY GUN OPTIONS

AA43HC

Max. operating pressure: 800 psi (55 bar)

Max. temperature: 200°F (93°C)

Capacity: 15 gpm (57 lpm)

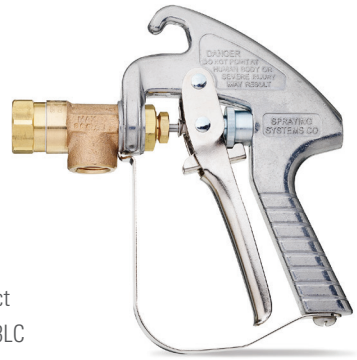
Material: Brass, aluminum or stainless steel valve body with aluminum handle

Trigger lock and guard

Front inlet

Designed to withstand high impact

Higher operating pressure than 43LC



D41663-23L-QJ-PA/SS

Max. operating pressure: 300 psi (20 bar)

Max. temperature: 158°F (70°C)

Capacity: 11 gpm (40 lpm)

Material: Stainless steel valve body with nylon handle

Quick change of sealing unit

Specially designed softgrip improves control

Grip remains cool during hot spraying operations

Wetted parts are made of FDA compliant materials

AA31

Max. operating pressure: 500 psi (35 bar)

Max. temperature: 200°F (93°C)

Capacity: 5 gpm (19 lpm)

Material: Brass valve body

Optional trigger lock

Can be used with air

Positive trigger action for drip-free shut off

MATERIAL	CODE
Brass	No code
Nickel-plated steel	INP
Stainless steel	SS

ORDERING INFORMATION

COMPLETE SPRAY GUN ASSEMBLY

GunJet Model	–	Inlet Material Code

Example: **AA23L** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: AAB43HC.

SPECIFICATIONS

Model	Max. Operating Pressure psi (bar)	Capacity gpm (lpm)	Max. Temperature °F (°C)	Inlet Conn. in.	Outlet Conn. in.	Weight oz. (kg)	Spray Tips	Extensions	Adapters/ Swivel Connectors	Spare Parts Kits
36533-60	600 (41)	12 (45)	200 (93)	3/8 NPT or BSPT (F)	11/16–16 UniJet® THD	16 (.45)	EG, TG, TK, TN, TPU UniJet	9004-SS, 20400-1/4M*, 20400-1/8F*	4676, 11990, 13212, 14643	AB36533-60-KIT
AA23L	250 (17)	5 (19)	200 (93)	1/4 NPS (M)	11/16–16 UniJet THD	15 (.43)	TB, TG, TK, TN, TPU, TX UniJet	6671, 7715, 9004-SS, 9527, 12086, 14975, 15699	4676, 7599, 8603, 8604, 11990, 14269, 14643	AB23L-KIT, AB23L-SS-KIT, AB23L-7676-KIT, AB23L-7676-SS-KIT
AA23L-45885	250 (17)	5 (19)	200 (93)	1/4 NPS (M)	11/16–16 UniJet THD	16 (.45)	TPU UniJet	6671, 7715, 9004-SS, 9527, 12086, 14975, 15699	4676, 7599, 8603, 8604, 11990, 14269, 14643	AB23L-45885-KIT, AB23L-45885-SS-KIT
AA23H	1000 (69)	5 (19)	200 (93)	1/4 NPS (M)	11/16–16 UniJet THD	16 (.45)	EG, TC, TG, TK, TN, TN-SSTC, TP, TP-TC, TPU UniJet	9004-SS, 9527, 9702A, 9702C, 9702S, 12086, 13781S, 15699	4676, 7599, 8603, 8604, 11990, 14269, 14643	AB23H-KIT AB23H-SS-KIT
AA43HC	800 (55)	15 (57)	200 (93)	1/2, 3/4 NPT or BSPT (F)	1/2, 3/4 NPT or BSPT (F)	35.25 (1)	FloodJet®, FullJet®, VeeJet®	–	7029, 11990	AB43-KIT, AB43-AL-KIT, AB43B-KIT, AB43C-KIT, AB43D-KIT, AB43-11767-KIT, AB43-12605-KIT, AB43-20962-KIT
D41663-23L-QJ-PA/SS	300 (20)	10.5 (40)	158 (70)	1/4 BSPP (M)	–	13 (.36)	UniJet	–	–	–
AA31	500 (35)	5 (19)	200 (93)	1/4 NPS (M) or NPT or BSPT (F)	11/16–16 UniJet THD	12.5 (.35)	EG, TB, TG, TK, TN, TP, TPU UniJet	6671-SS, 7715-SS, 9004-SS, 9527, 12086, 15699	4676, 7599, 8603, 8604, 11990, 14269, 14643	AB31-KIT, AB31-39430-KIT, AB31-9525-KIT, AB31-PGA-KIT

* Use with adapter 4676.

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional configuration options.

See Spraying Systems Co. Hydraulic Spray Products Catalog 75 for spray tip performance data.

EXTENSIONS FOR MEDIUM PRESSURE GUNJET SPRAY GUNS

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**14975**	250 (17)	11/16–16 UniJet THD	1/8 NPT or BSPT (M)	Brass	10 (254) 18 (457)	
	**6671**	250 (17)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (609) 30 (762) 36 (914) 48 (1219)	Curved body
		500 (35)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 18 (457) 24 (609) 30 (762) 36 (914) 48 (1219)	
	**7715**	250 (17)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 12 (305) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219)	
		500 (35)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 12 (305) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219)	
	**9527**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	Curved, rubber insulated
	**15699**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	Rubber insulated. (8"/203 mm length not rubber insulated)
	**12086**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Aluminum with brass ferrules	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

EXTENSIONS FOR MEDIUM PRESSURE GUNJET SPRAY GUNS

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**9702A**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Projects spray at 90° angle to inlet. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702C**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Curved body. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702S**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**13781S**	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254) 16 (406) 48 (1219)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
	**20400-1/4M**	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**20400-1/8F**	3000 (207)	1/4 NPT or BSPT (M)	1/8 NPT or BSPT (F)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**9004-SS**	4000 (275)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	4 (101.6) 8 (203) 12 (305) 18 (457) 24 (610) 36 (914) 40 (1016) 60 (1524) 72 (1829) 84 (2133) 96 (2438)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

ORDERING INFORMATION

COMPLETE EXTENSION ASSEMBLY

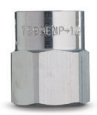
Extension Type	–	Extension Length	–	Material Code

Example: **7715** – **18** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B20400.

MATERIAL	CODE
Brass	No code
Mild steel	I
Stainless steel	SS
Zinc-plated steel	IZP

ADAPTERS FOR MEDIUM PRESSURE GUNJET SPRAY GUNS

Adapter	Adapter Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material
	**4676**	1000 (69)	11/16–16 UniJet THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Brass
	**7599**	1000 (69)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPS	Nickel-plated brass
	**4676-__-SS**	2000 (138)	11/16–16 UniJet THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Stainless steel
	**7599-__-SS**	2000 (138)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPS	Stainless steel
	**14643**	4000 (275)	11/16–16 UniJet® THD	1/8, 1/4 NPT or BSPT (F)	Nickel-plated steel, Stainless steel

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional options.

ORDERING INFORMATION

COMPLETE ADAPTER ASSEMBLY

Adapter Type	–	Inlet Conn.	–	Material Code

Example

4676	–	1/8	–	SS

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B4676.

MATERIAL	CODE
Brass	No code
Nickel-plated brass	NP
Nickel-plated steel	INP
Stainless steel	SS

SPARE PARTS KITS FOR MEDIUM PRESSURE GUNJET SPRAY GUNS

Spare Parts Kit	Kit includes:
AB23H-KIT	Valve seat, main stem assembly, cup packing, main spring
AB23H-SS-KIT	
AB23L-KIT	Valve seat, main stem assembly, cup packing, main spring
AB23L-SS-KIT	
AB23L-7676-KIT	Main spring, cup packing, stem end, valve seat
AB23L-7676-SS-KIT	
AB23L-45885-KIT	Valve seat retainer sub-assembly, packings, main spring, spring
AB23L-45885-SS-KIT	
AB31-KIT	Seat, stem & guide sub-assembly, spring, packings
AB31-9525-KIT	Seat, stem & guide sub-assembly, spring, packings
AB31-39430-KIT	Valve seat ring & tip sub-assembly, stem sub-assembly, spring, packings

Spare Parts Kit	Kit includes:
AB31-PGA-KIT	Tip gasket, gaskets, seat plug gasket, packings
AB43-KIT	Gasket, seat plug, seat plate, washer & core sub-assembly, packing washer, packings
AB43-AL-KIT	
AB43B-KIT	Seat plate, packings
AB43C-KIT	
AB43D-KIT	
AB43-11767-KIT	Seat plate, retaining ring, gasket, packings
AB43-12605-KIT	Seat plate, retaining ring, gasket, packings
AB43-20962-KIT	Seat plate, packings
AB36533-60-KIT	Screw, seat, main stem & seat holder sub-assembly, spring, cup packing, back-up ring, seat plug gasket

HIGH PRESSURE
GUNJET® SPRAY GUNS

HIGH PRESSURE WASHING

PLANT CLEAN-UP · STEAM CLEANING

RELEASE AGENT SPRAYING

SEAL COATING · FLOOR CLEANING

HEAVY EQUIPMENT WASHING

HIGH PRESSURE SPRAY GUNS

- Ergonomic designs assure positive control and operator comfort even at maximum flow and pressure conditions
- Sturdy design and materials mean long, productive equipment life
- Ultimate versatility is available with a complete selection of UniJet® spray tips to meet pattern and flow specifications
- Standard one-piece nozzles, such as VeeJet® flat spray nozzles, can be used when mated with proper adapters
- Handles remain comfortable even during hot spraying operations
- Optional “weep” feature (30A and 70) helps prevent freezing in cold conditions
- Adapters convert thread sizes, allowing the attachment of optional accessories
- Extensions available for many models to improve spray gun stability
- Trigger locks prevent accidental discharge when the gun is not in use
- In-line swivels provide smooth 360° operation, eliminating hose kinking and reducing operator fatigue
- In-line strainers available to prevent clogging and improve purity of sprayed liquid
- Spare parts kits available for easy maintenance

HIGH PRESSURE SPRAY GUNS

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HIGH PRESSURE GUNJET® SPRAY GUNS

OVERVIEW:
HIGH PRESSURE GUNJET SPRAY GUNS

- Capacity ranging from 5 gpm (19 lpm) to 10 gpm (38 lpm)
- Maximum pressure ranging from 1500 psi (105 bar) to 5000 psi (345 bar)
- Ergonomic designs assure positive control and operator comfort even at maximum flow and pressure conditions
- Ultimate versatility is available with a complete selection of UniJet spray tips to meet particular pattern and flow specifications

See page D6 for gun and tip compatibility table and pages E10-E11 for specific tip information.

HIGH PRESSURE GUNJET SPRAY GUN OPTIONS

AA30A

Max. operating pressure: 1500 psi (105 bar)
Max. temperature: 200°F (93°C)
Capacity: 5 gpm (19 lpm)
Material: Brass valve body with nylon handle
Trigger lock and guard
Designed to withstand high impact
Ergonomic design with light trigger pull
Front hose connection keeps grip cool
Optional weep feature prevents freezing

AA60

Max. operating pressure: 2500 psi (175 bar)
Max. temperature: 300°F (150°C)
Capacity: 6 gpm (23 lpm)
Material: Brass or stainless steel valve body with nylon handle
Trigger lock and guard
Designed to withstand high impact
Ergonomic design with light trigger pull
Front hose connection keeps grip cool

AA70

Max. operating pressure: 5000 psi (345 bar)
Max. temperature: 300°F (150°C)
Capacity: 10 gpm (38 lpm)
Material: Brass valve body with nylon handle
Trigger lock and guard
Designed to withstand high impact
Ergonomic design with light trigger pull
Large grip area to accommodate work gloves
Vented handle remains comfortable during hot spraying operations
Optional weep feature prevents freezing

AA80

Max. operating pressure: 3000 psi (207 bar)
Max. temperature: 300°F (150°C)
Capacity: 10 gpm (38 lpm)
Material: Brass valve body with nylon handle
Trigger lock and guard
Designed to withstand high impact
Ergonomic design with light trigger pull
Handle remains comfortable during hot spraying operations

HIGH PRESSURE GUNJET SPRAY GUN OPTIONS

PW4000A

Max. operating pressure: 4000 psi (275 bar)

Max. temperature: 300°F (150°C)

Capacity: 10 gpm (38 lpm)

Material: Brass valve body with nylon handle

Trigger lock and guard

Designed to withstand high impact

Ergonomic design with light trigger pull

Handle remains comfortable during hot spraying operations

PW4000AS

Max. operating pressure: 4000 psi (275 bar)

Max. temperature: 300°F (150°C)

Capacity: 10 gpm (38 lpm)

Material: Brass valve body with nylon handle

Trigger lock and guard

Designed to withstand high impact

Ergonomic design with light trigger pull

Bottom trigger pivot and inlet swivel rotate freely at high pressures

Handle remains comfortable during hot spraying operations

MATERIAL	CODE
Brass	No code
Stainless steel	SS

ORDERING INFORMATION

COMPLETE SPRAY GUN ASSEMBLY

GunJet Model – Inlet Conn. – Material Code

Example: **AA60** – **3/8** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: AAB60.

SPECIFICATIONS

Model	Max. Operating Pressure psi (bar)	Capacity gpm (lpm)	Max. Temperature °F (°C)	Inlet Conn. in.	Outlet Conn. in.	Weight oz. (kg)	Spray Tips	Extensions	Adapters/ Swivel Connectors	Spare Parts Kits
AA30A	1500 (105)	5 (19)	200 (93)	1/4 NPT or BSPT (F)	11/16–16 UniJet® THD	15 (.43)	EG, TG UniJet	9004-SS, 9702A, 9702C, 9702S, 13781S	4676-SS-1/4, 9765, 11990	AB30A-KIT AB30AW-KIT AB30A-50736-KIT
AA60	2500 (175)	6 (23)	300 (150)	3/8 NPT or BSPT (F)	11/16–16 UniJet THD	16 (.45)	EG UniJet, MEG, MEG-SSTC WashJet®	9004-SS, 9702A, 9702C, 9702S, 20400-1/4M*, 20400-1/8F*	14643-1/4, 15950-SS	AB60-KIT, AB60-SS-KIT, AB60W-KIT, AB60-20250-KIT AB60-21580-KIT, AB60-21580A-KIT, AB36533-60-KIT
AA70	5000 (345)	10 (38)	300 (150)	3/8 NPT or BSPT (F)	1/4 NPT or BSPT (F)	25 (.71)	IMEG, MEG QCIMEG, WashJet	20400-1/8F	15950	–
AA80	3000 (207)	10 (38)	300 (150)	3/8 NPT or BSPT (F)	11/16–16 UniJet THD or 1/4, 3/8 NPT or BSPT (F)	36 (1.02)	EG UniJet, IMEG, MEG, SAQCIMEG, QCMEG WashJet	9004-SS, 9702A, 9702C, 9702S, 15250, 20400-1/4M*, 20400-1/8F*	14643-1/4, 15950-SS	AB80-KIT
PW4000A	4000 (275)	10 (38)	300 (150)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPT or BSPT (F)	24 (.68)	IMEG, MEG, MEG-SSTC, QCMEG WashJet	15250, 20400-1/4M*, 20400-1/8F*	9765, 15950, 21550	AB-PW4000A-KIT, AB-PW4000AW-KIT
PW4000AS	4000 (275)	10 (38)	300 (150)	3/8 NPT or BSPT (F) swivel	1/4, 3/8 NPT or BSPT (F)	24 (.68)	IMEG, MEG, MEG-SSTC, QCMEG WashJet	15250, 20400-1/4M*, 20400-1/8F*	15950	AB-PW4000AS-KIT, AB-PW4000ASW-KIT

*Use with adapter 14643-1/4-SSP or 14643-1/4-IENP.

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional configuration options.

See Spraying Systems Co. Hydraulic Spray Products Catalog 75 for spray tip performance data.

ORDERING INFORMATION

COMPLETE EXTENSION ASSEMBLY

Extension Type	–	Extension Length	–	Material Code

Example

15250	–	18	–	IZP

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B15250.

MATERIAL	CODE
Brass	No code
Mild steel	I
Stainless steel	SS
Zinc-plated steel	IZP

EXTENSIONS FOR HIGH PRESSURE GUNJET SPRAY GUNS

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**9702A**	2000 (138)	11/16–16 UniJet® THD	–	Mild steel	10 (254) 24 (610) 48 (1219) 60 (1524)	Projects spray at 90° angle to inlet. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702C**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	10 (254) 24 (610) 48 (1219) 60 (1524)	Curved body. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702S**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	10 (254) 24 (610) 48 (1219) 60 (1524)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**13781S**	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254) 16 (406) 48 (1219)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
	**15250**	3000 (207)	3/8 NPT or BSPT (M)	11/16–16 UniJet THD	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Adjustable hand grip. Neoprene insulated cover
	**20400-1/4M**	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**20400-1/8F**	3000 (207)	1/4 NPT or BSPT (M)	1/8 NPT or BSPT (F)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**9004-SS**	4000 (275)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 12 (305) 18 (457) 24 (610) 36 (914)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

ADAPTERS FOR HIGH PRESSURE GUNJET SPRAY GUNS

Adapter	Adapter Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material
	**4676-__-SS**	2000 (138)	11/16–16 UniJet® THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Stainless steel
	**14643**	4000 (275)	11/16–16 UniJet THD	1/8, 1/4 NPT or BSPT (F)	Nickel-plated steel, Stainless steel

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional options.

ORDERING INFORMATION

COMPLETE ADAPTER ASSEMBLY

Adapter Type – Inlet Conn. – Material Code

Example: **4676** – **1/8** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B4676.

MATERIAL	CODE
Nickel-plated steel	INP
Stainless steel	SS

SPARE PARTS KITS FOR HIGH PRESSURE GUNJET SPRAY GUNS

Spare Parts Kit	Kit includes:
AB30A-KIT	Valve seat sub-assembly, Stem sub-assembly, Cup packing
AB30AW-KIT	
AB30A-50736-KIT	Cap sub-assembly, Valve seat ring & tip sub-assembly, Stem sub-assembly, Packing cup
AB60-KIT	Valve seat sub-assembly, Stem sub-assembly, Main spring, Cup packing, Back-up ring, Gasket
AB60W-KIT	
AB60-SS-KIT	
AB60-20250-KIT	Screw, Seat, Main stem & seat holder sub-assembly, Spring, Cup packing, Back-up ring, Seat plug gasket
AB60-21580-KIT	Pintle, Seat, Main stem & seat holder sub-assembly, Spring, Cup packing, Back-up ring, Seat plug gasket
AB60-21580A-KIT	

Spare Parts Kit	Kit includes:
AB80-KIT	Main spring, Back-up rings, O-rings, Seat washer, Lip seal
AB36533-60-KIT	Screw, Seat, Main stem & seat holder sub-assembly, Spring, Cup packing, Back-up ring, Seat plug gasket
ABPW4000A-KIT	Trigger spring, Gasket, Back-up rings, O-rings, Seat, Stem, Ball, Spring
ABPW4000AW-KIT	
ABPW4000AS-KIT	
ABPW4000ASW-KIT	

ACCESSORIES
AND SPRAY TIPS

ACCESSORIES FOR GUNJET® SPRAY GUNS

- Swivel connectors help to provide a smooth, leak-proof connection preventing hose twisting when using spray guns, increasing hose life and reducing operator fatigue
- Strainers are available in a wide range of screen mesh sizes and materials to prevent particles from plugging the nozzle orifice
- A choice of extension lengths is available to improve the efficiency of your spraying operation
- Adapters convert the spray gun outlet from 11/16"-16 UniJet® thread to a choice of outlet connection sizes, allowing the attachment of other accessories and standard one piece nozzles

SIMPLIFY INSTALLATION AND OPERATION

Model **36467** swivel features 1/2" NPT (M) threaded outlet. Threaded inlet connection is 3/4" garden hose thread (F). Commonly used with CU150A gun. See page E4

Model **8510** strainer is constructed of stainless steel and offers a choice of screen mesh sizes. The internal support prevents screen collapse at high pressure. See page E5

Model **6960** is a low pressure extension assembly which features a siphon attachment with adjustable liquid flow. The assembly includes a spray tip and is constructed of brass. The inlet connection is 11/16"–16 UniJet thread. See page E6

ACCESSORIES

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SWIVEL CONNECTORS AND LIQUID STRAINERS

Connector	Type	Max. Pressure psi (bar)	Max. Temperature °F (°C)	Inlet Conn. in.	Outlet Conn. in.	Material	Special Features
	**36466 swivel**	150 (10)	200 (93)	1/2, 5/8, 3/4 garden hose ID, 1-3/16 long barb inlet	1/2 NPT or BSPT (M)	Brass	Lock ring secures trigger of CU150A gun in fully engaged position
	**36466L swivel**	150 (10)	200 (93)	3/4 garden hose ID, 2-7/16 long barb inlet	1/2 NPT or BSPT (M)	Brass	Lock ring secures trigger of CU150A gun in fully engaged position
	**36467 swivel**	150 (10)	200 (93)	3/4 garden hose (F)	1/2 NPT (M)	Brass	Lock ring secures trigger of CU150A gun in fully engaged position
	**11990 In-line swivel**	1000 (69)	180 (82)	1/4 to 1/2 NPT or BSPT (F), 1/4 to 1/2 NPT or BSPT (M)	1/4 NPS (M), 1/4 to 1/2 NPT or NPS (F)	Brass	Leakproof hose. 360° swivel eliminates hose kinking and operator fatigue. See data sheet 11991 for specific configurations.
	**15950 swivel**	1000 (69)	200 (93)	3/8 NPT or BSPT (M)	3/8 NPT or BSPT (F)	Brass	Allows swiveling under pressure and side loads
	**21550 swivel**	1500 (103)	200 (93)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPT or BSPT (M)	Brass	Self-lubricating PTFE-filled bearings

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional options.

Connector	Type	Max. Pressure psi (bar)	Max. Temperature °F (°C)	Inlet Conn. in.	Outlet Conn. in.	Material	Special Features
	**36560 swivel**	2000 (138)	200 (93)	3/8 NPT (M)	3/8 NPS (F)	Nickel-plated brass	Boom swivel designed for ceiling mount
	**15950 swivel**	3000 (210)	200 (93)	3/8 NPT or BSPT (M)	3/8 NPT or BSPT (F)	Stainless steel	Allows swiveling under pressure and side loads
	**8510 strainer**	4000 (275)	200 (93)	1/4 NPS (M)	1/4 NPS (F)	Stainless steel	Choice of screen mesh sizes. Internal support prevents screen collapse at high pressure

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional options.

MATERIAL	CODE
Brass	No code
Nickel-plated brass	NP
Stainless steel	SS

ORDERING INFORMATION

SPRAY GUN CONNECTORS

Swivel Type – Material Code

Example: **15950** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B15950.

SPRAY GUN CONNECTORS

Swivel Type – Inlet Conn. x Outlet Conn.

Example: **21550** – **1/4F** x **1/4M**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B21550.

EXTENSIONS FOR SPRAY GUNS

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**6960**	100 (7)	11/16–16 UniJet® THD	11/16–16 UniJet THD	Brass	8.5 (216)	Siphon with adjustable flow
	**4673**	125 (8.6)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	18 (457) 24 (610) 30 (762) 36 (914)	Curved with swivel nozzle body
	**22665**	150 (10)	11/16–16 UniJet THD	11/16–16 UniJet THD	Polyester	15 (381) 24 (610)	
	**14975**	250 (17)	11/16–16 UniJet THD	1/8 NPT or BSPT (M)	Brass	10 (254) 18 (457)	
	**6671**	250 (17)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (609) 30 (762) 36 (914) 48 (1219)	Curved body
		500 (35)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 18 (457) 24 (609) 30 (762) 36 (914) 48 (1219)	
	**7715**	250 (17)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 12 (305) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219)	
		500 (35)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	8 (203) 12 (305) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219)	
	**9527**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	Curved, rubber insulated
	**15699**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	Rubber insulated. (8"/203 mm length not rubber insulated)
	**12086**	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Aluminum with brass ferrules	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	**CP12087**	1000 (69)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Aluminum	8 (203) 18 (457) 24 (610) 36 (914) 48 (1219)	
	**9702A**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Projects spray at 90° angle to inlet. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702C**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Curved body. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**9702S**	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203) 10 (254) 18 (457) 24 (610) 30 (762) 36 (914) 48 (1219) 60 (1524)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
	**13781S**	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254) 16 (406) 48 (1219)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
	**15250**	3000 (207)	3/8 NPT or BSPT (M)	11/16–16 UniJet THD	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Adjustable hand grip. Neoprene insulated cover
	**20400-1/4M**	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**20400-1/8F**	3000 (207)	1/4 NPT or BSPT (M)	1/8 NPT or BSPT (F)	Stainless steel or zinc-plated steel	18 (457) 36 (914)	Neoprene insulated cover
	**9004-SS**	4000 (275)	11/16–16 UniJet THD	11/16–16 UniJet THD	Stainless steel	4 (101.6) 8 (203) 12 (305) 18 (457) 24 (610) 36 (914) 40 (1016) 60 (1524) 72 (1829) 84 (2133) 96 (2438)	

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional material or size options.

ORDERING INFORMATION

COMPLETE EXTENSION ASSEMBLY

Extension Type	–	Extension Length	–	Material Code

Example: **7715** – **18** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B20400.

MATERIAL	CODE
Aluminum	AL
Brass	No code
Mild steel	I
Nickel-plated brass	NP
Nickel-plated steel	INP
Polyester	PYR
Polypropylene	PP
Stainless steel	SS
Zinc-plated steel	IZP

ORDERING INFORMATION

COMPLETE ADAPTER ASSEMBLY

Adapter Type	–	Inlet Conn.	–	Material Code

Example: **4676** – **1/8** – **SS**

BSPT connections require the addition of a "B" in the prefix of the part number. Example: B4676.

ADAPTERS FOR SPRAY GUNS

Adapter	Adapter Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material
	**14269**	125 (8.6)	3/4" garden hose (F)	1/4 NPS or NPT (F)	Brass
	**20897**	125 (8.6)	3/4" garden hose (F)	1/4 NPT or BSPT (M)	Brass
	**13212**	150 (10.4)	3/4" garden hose (F)	3/8, 1/2 NPT or BSPT (M)	Brass
	**22664**	150 (10.4)	11/16–16 UniJet® THD	11/16–16 UniJet THD	Polypropylene
	**22673**	150 (10.4)	11/16–16 UniJet THD	11/16–16 UniJet THD	Polypropylene
	**7029**	500 (34.4)	3/4" garden hose (F)	1/2 NPT or BSPT (M)	Brass
	**4676**	1000 (69)	11/16–16 UniJet THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Brass
	**7599**	1000 (69)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPS	Nickel-plated brass
	**4676-__-SS**	2000 (138)	11/16–16 UniJet THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Stainless steel
	**7599-__-SS**	2000 (138)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPS	Stainless steel
	**14643**	4000 (275)	11/16–16 UniJet® THD	1/8, 1/4 NPT or BSPT (F)	Nickel-plated steel, stainless steel

Do not exceed the maximum operating pressure of the lowest rated accessory item within the spray system. Contact your sales engineer for additional options.

SPRAY TIPS

Spray Tip	Tip Type	Operating Pressure			Tip Inlet Connection (in.)	Material	Performance Data Reference	Spray Pattern
		Low	Med	High				
AIR ATOMIZING								
	**1/8J, 1/4J setups**	•			3/8–24	Brass, 303 stainless steel (SS), 316 stainless steel (316SS) Ask sales engineer about other materials	Air Atomizing Spray Nozzles Catalog 75	Flat spray, round spray, hollow cone
FLATJET® SPRAY NOZZLES								
	**P**	•	•		1/8, 1/4, 3/8, 1/2 NPT (M)	Brass, mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS)	Hydraulic Spray Products Catalog 75, pages C48-49	Narrow and flat spray
FLOODJET® SPRAY NOZZLES								
	**K**	•			1/8, 1/4, 3/8, 1/2 NPT or BSPT (M)	Brass, 303 stainless steel (SS), 316 stainless steel (316SS), polyvinyl chloride (PVC)	Hydraulic Spray Products Catalog 75, pages C43-44	Wide and flat spray
	**TK**	•			UniJet	Brass, 303 stainless steel (SS)	Hydraulic Spray Products Catalog 75, pages C45-46	Wide and flat spray
FULLJET® SPRAY NOZZLES								
	**HH**	•			1/4, 3/8 NPT or BSPT (M)	Brass, mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), polyvinyl chloride (PVC)	Hydraulic Spray Products Catalog 75, page B7	Full cone
UNIJET® SPRAY TIPS								
	**EG**			•	UniJet	Hardened stainless steel	Hydraulic Spray Products Catalog 75, page C39	Flat spray
	**TP-TC**		•	•	UniJet	416 stainless steel with tungsten carbide orifice (TC)	Bulletin 644	Flat spray
	**TG**	•	•		UniJet	Brass, 303 stainless steel (SS)	Hydraulic Spray Products Catalog 75, page B39	Full cone
	**TN**	•	•		UniJet	Brass, 303 stainless steel (SS)	Hydraulic Spray Products Catalog 75, pages D25-26	Hollow cone
	TN-SSTC		•	•	UniJet	303 stainless steel with tungsten carbide orifice (SSTC)		Hollow cone
	**TPU**	•	•		UniJet	Brass, 303 stainless steel (SS)	Hydraulic Spray Products Catalog 75, pages C25-31	Flat spray
	**TX**	•	•		UniJet	Brass, 303 stainless steel (SS)	Hydraulic Spray Products Catalog 75, page D22	Hollow cone

Spray Tip	Tip Type	Operating Pressure			Tip Inlet Connection (in.)	Material	Performance Data Reference	Spray Pattern
		Low	Med	High				
VEEJET® SPRAY NOZZLES								
	**H-VV**	•	•		1/8, 1/4 NPT or BSPT (M)	Brass, mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS)	Hydraulic Spray Products Catalog 75, pages C6-8	Flat spray
	**H-U**	•	•		1/8, 1/4, 3/8, 1/2 NPT or BSPT (M)	Brass, mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), polyvinyl chloride (PVC)	Hydraulic Spray Products Catalog 75, pages C9-13	Flat spray
WASHJET® SPRAY NOZZLES AND QUICK-CONNECT TIPS								
	**IMEG**			•	1/8, 1/4 NPT or BSPT (M)	Hardened stainless steel	Hydraulic Spray Products Catalog 75, page C36	High impact, flat spray
	**MEG**			•	1/8, 1/4 NPT or BSPT (M)	Hardened stainless steel	Hydraulic Spray Products Catalog 75, pages C34-35	High impact, flat spray
	**MEG-SSTC**			•	1/4 NPT or BSPT (M)	Hardened stainless steel, tungsten carbide	Hydraulic Spray Products Catalog 75, pages C34-35	High impact, flat spray
	**QCIMEG**			•	Hydraulic quick coupling (M)	Hardened stainless steel	Hydraulic Spray Products Catalog 75, page C37	High impact, flat spray
	**QCMEG**			•	Hydraulic quick coupling (M)	Hardened stainless steel	Hydraulic Spray Products Catalog 75, page C36	High impact, flat spray
CONEJET®								
	**5500-PPB**	•			UniJet	Polypropylene	Data sheet 5500-PPB	Adjustable

TERMS AND CONDITIONS OF SALE

(1) MODIFICATION OF TERMS

Seller's acceptance of any order is expressly subject to Buyer's assent to each and all of the terms and conditions set forth below and Buyer's assent to these terms and conditions shall be conclusively presumed from Buyer's receipt of this document without prompt written objection thereto or from Buyer's acceptance of all or any part of the goods ordered. No addition to or modification of said terms and conditions shall be binding upon Seller unless specifically agreed to by Seller in writing. If Buyers' purchase order or other correspondence contains terms or conditions contrary to or in addition to the terms and conditions set forth below, acceptance of any order by Seller shall not be construed as assent to such contrary or additional terms and conditions or constitute a waiver by Seller of any of the terms and conditions.

(2) PRICE

Unless otherwise specified: (a) all prices, quotations, shipments and deliveries by Seller are f.o.b. Sellers plant; (b) all base prices together with related extras and deductions, are subject to change without notice and all orders are accepted subject to Seller's price in effect at the time of shipment; and (c) all transportation and other charges are for the account of Buyer, including all increase or decrease in such charges prior to shipment. Payment of said price shall be due at the remittance address shown on the Seller's invoice 30 days after the date of Seller's invoice. Interest will be charged at a rate of 1 to 1-1/2% per month on all balances outstanding more than 30 days after the date of the invoice.

(3) MINIMUM BILLING

The minimum billing by the Seller for any order shall be $50.00.

(4) WARRANTIES

Seller warrants that its products will conform to and perform in accordance with the products' specifications. Seller warrants that the products do not infringe upon any copyright, patent, or trademark. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(5) LIMITATION ON LIABILITIES

Because of the difficulty of ascertaining and measuring damages hereunder, it is agreed that, except for claims for bodily injury, Seller's liability to the Buyer or any third party, for any losses or damages, whether direct or otherwise, arising out of the purchase of product from Seller by Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder. IN NO EVENT WILL SELLER BE LIABLE FOR ANY LOSS OF PROFITS OR OTHER SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

(6) QUALITY ASSURANCE

Seller shall have no obligation to ensure that any goods purchased from Seller meet any special Buyer quality assurance specifications and/or other special Buyer requirements unless such specifications and/or other requirements are specifically set forth in Buyer's purchase order and expressly accepted by Seller. In the event that any such goods supplied by Seller in connection therewith, are applied to an end use without the appropriate specification and/or other requirement therefore having been set forth in Buyer's purchase order and expressly accepted by Seller, Buyer shall indemnify and hold Seller harmless against any and all damages or claims for damages made by any person for any injury, fatal or nonfatal, to any person or for any damage to the property of any person incident to or arising out of such application.

(7) CLAIMS

Claims respecting the condition of goods, compliance with specifications or any other matter affecting goods shipped to Buyer must be made promptly and, unless otherwise agreed to in writing by Seller, in no event later than one (1) year after receipt of the goods by Buyer. In no event shall any goods be returned, reworked or scrapped by Buyer without the express written authorization of Seller.

(8) DEFAULT IN PAYMENT

If Buyer fails to make payments on any contract between Buyer and Seller in accordance with Seller's terms, Seller, in addition to any other remedies available to it, may at its option, (i) defer further shipments until such payments are made and satisfactory credit arrangements are re-established or (ii) cancel the unshipped balance of any order.

(9) TECHNICAL ASSISTANCE

Unless otherwise expressly stated by Seller: (a) any technical advice provided by Seller with respect to the use of goods furnished to Buyer shall be without charge; (b) Seller assumes no obligation or liability for any such advice, or for any results occurring as a result of the application of such advice; and (c) Buyer shall have sole responsibility for selection and specification of the goods appropriate for the end use of such goods.

(10) CANCELLATION OF SPECIAL ORDERS

Special Orders or goods specially manufactured for Buyer cannot be canceled or modified by Buyer, and releases cannot be held up by Buyer, after such goods are in process except with the express written consent of the Seller and subject to conditions then to be agreed upon which shall include, without limitation, protection of Seller against all loss.

(11) PATENTS

The Seller shall not be liable for any costs or damages incurred by the Buyer as a result of any suit or proceeding brought against Buyer so far as based on claims (a) that use of any product, or any part thereof, furnished hereunder, in combination with products not supplied by the Seller or (b) that a manufacturing or other process utilizing any product, or any part there of furnished hereunder, constitute either direct or contributory infringement of any patent of the United States. The Buyer shall hold the Seller harmless against any expense or loss resulting from infringement of patents or trademarks arising form compliance with Buyer's designs or specifications or instructions.

(12) COMPLETE AGREEMENT

The terms and conditions set forth herein, together with any other documents incorporated herein by reference constitute the sole and entire agreement between Buyer and Seller with respect to any order superseding completely any oral or written communications. No additions to or variations from such terms and conditions whether contained in Buyer's purchase order, any shipping release or elsewhere shall be binding upon Seller unless expressly agreed to in writing by Seller.

(13) GOVERNING LAW

All orders are accepted by Seller at its mailing address in Wheaton, Illinois, and shall be governed by and interpreted in accordance with the laws of the State of Illinois.

CUSTOMER RETURN POLICY

We recognize that at times it is necessary for our customers to return products for a variety of reasons...that returns are a normal part of an on-going business relationship. To make the process as straightforward and fair as possible, our policy is based upon the following:

- An error on our part: We'll credit you for the product and shipping costs, up to one year from ship date.
- An error on your part: Standard products can be returned for full credit, freight prepaid, also up to one year from date of shipment. There is the normal restocking charge of 20%.

Returns are subject to inspection.

For quick handling and authorization of returns, contact your local sales office.

Spraying Systems Co. reserves the right to make changes in specifications or design of the products shown in the catalog or to add improvements at anytime without notice or obligation.

SPRAYING SYSTEMS CO.'S TRADEMARK USAGE

The following is a current list of Spraying Systems Co.'s trademarks registered in the United States. Some marks are registered in other countries as well.

ConeJet®	GunJet®	QuickJet®	UniJet®
FlatJet®	IMEG®	SprayDry®	VeeJet®
FloodJet®	iSpray®	TankJet®	WashJet®
FullJet®	MeterJet®	TriggerJet®	WindJet®

Spraying Systems Co. reserves the right to make changes in specifications or design of the products shown in the catalog or to add improvements at anytime without notice or obligation.

ORDERING PRODUCTS

In each product section, you'll find ordering examples. Start by reviewing the example and then create the part number by indicating the part number components.

SPRAY GUN ASSEMBLY

GunJet Model	–	Material Code	–	Inlet Conn.

Example

22650	–	PP	–	1/4

For your convenience, there are multiple ways to place an order: phone, fax and online

In North America
Phone: 1.800.95.SPRAY | Fax: 1.888.95.SPRAY

Outside North America
Phone: 1.630.665.5000 | Fax: 1.630.260.0842

Online ordering with a credit card is also available. Visit spray.com/ispray. You'll find helpful selection tools and a Live Chat option for immediate assistance.

FINDING PRODUCTS

- Consult the Product Index on **page i-2** if you know the name of the product
- Consult the Part Number Index on **page i-3** if you have the part number. Part numbers are shown numerically and alpha-numerically

Selection assistance is also available by calling **1.800.95.SPRAY.** Representatives in your local sales office will help you determine which products best meet your application requirements. (Call **1.630.665.5000** outside North America or visit spray.com to find information for the sales office in your area.)

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Medium Pressure

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