



Spraying Systems Co.[®]
Experts in Spray Technology

GUNJET[®] SPRAY GUNS





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

Local manufacturing ensure 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 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."



SPRAY SYSTEM OPTIMIZATION



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.

 SUSTAINABILITY ASSESSMENT PROGRAM

Let our team of experts help you identify actionable ways to:

- Reduce water, chemical and energy use
- Reduce scrap and waste
- Improve worker safety

We will visit your plant and evaluate your essential spraying applications and uncover ways to help your operations become more efficient, productive, sustainable and safe. Visit spray.com/sustainability-assessment for more information.





EDUCATIONAL RESOURCES

Video demonstrations and tutorials on spray.com and [YouTube.com/sprayingsystems](https://www.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](#)
- [Sustainability Simplified: Proven Ways to Maximize Productivity, Increase Savings and Reduce Waste, Technical Manual 419](#)
- [White paper series addresses topics ranging from spray automation, solving clogging problems, water conservation and more](#)

Case studies on spray.com

More than 100 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](#)



HOW TO ORDER AND CUSTOMER SERVICE



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
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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 is also available. Visit spray.com/sprayfinder. You'll find helpful selection tools, detailed product specs and 3D CAD models for our full product line and live chat 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 on spray.com through Live and Video Chat and 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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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/sprayingystems](https://www.youtube.com/sprayingystems) 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:

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

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 (Q₁) at 40 psi = 1.9 gpm
- Pressure (P₁) = 40 psi
- Pressure (P₂) = 150 psi

Solving for Q₂ = 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 (Q₁) at 3 bar = 7.5 lpm
- Pressure (P₁) = 3 bar
- Pressure (P₂) = 10 bar

Solving for Q₂ = 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:

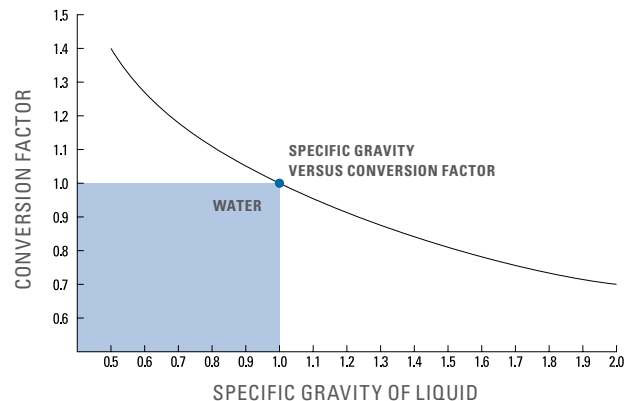
- Fluid sprayed is heavier than water and has a specific gravity of 1.4
- Flow of water at 150 psi = 3.5 gpm
- Heavy fluid (Q₂) = Q₁(water)*1/√1.4

$$Q_2 = \frac{3.5 \text{ gpm} * 1}{\sqrt{1.4}} = 2.95 \text{ gpm}$$

- Fluid sprayed is heavier than water and has a specific gravity of 1.4
- Flow of water at 10 bar = 13 lpm
- Heavy fluid (Q₂) = Q₁(water)*1/√1.4

$$Q_2 = \frac{13 \text{ lpm} * 1}{\sqrt{1.4}} = 11 \text{ lpm}$$

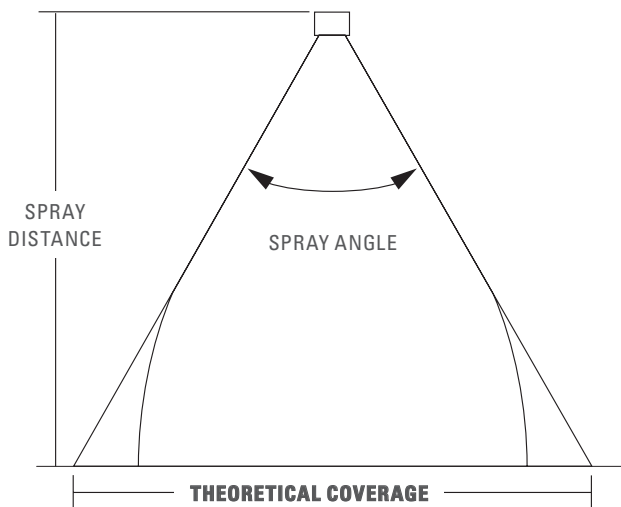
SPECIFIC GRAVITY VERSUS CONVERSION FACTOR



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.

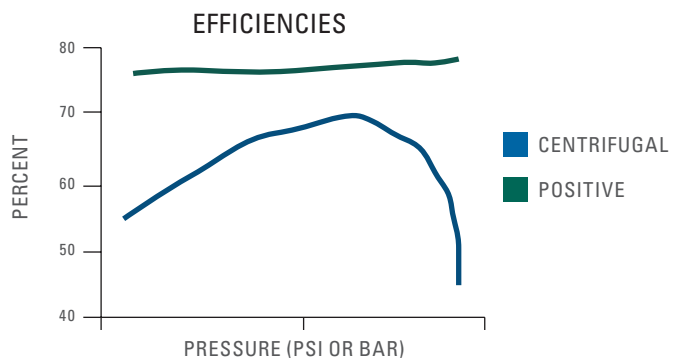
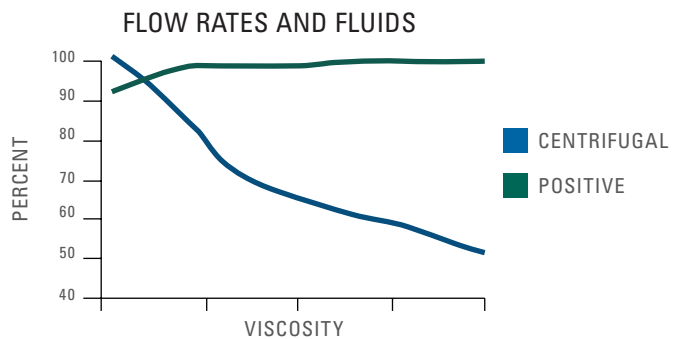
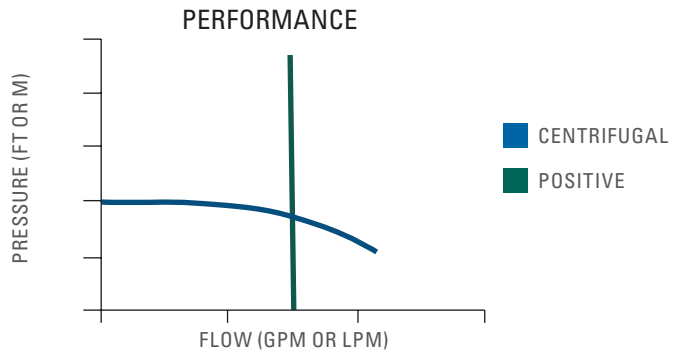
Centrifugal pumps (velocity pumps)

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 gpm	Pressure Drop in psi for Various Pipe Diameters 10 ft. Length Pipe																Flow lpm	Pressure Drop in bar for Various Pipe Diameters 10 m Length Pipe																	
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	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*

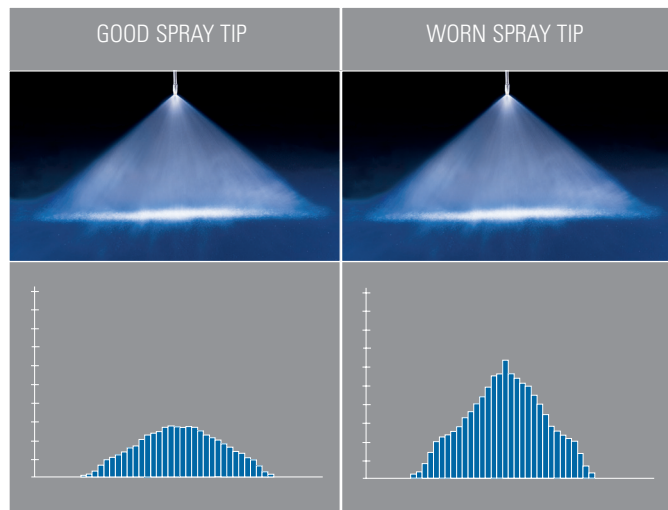
	WASTE	COST OF EXCESS
WATER	1,701,835 gallons (6,442,146 liters)	US \$4,680
CHEMICALS	170,165 gallons (644,145 liters)	US \$170,164
WASTEWATER DISPOSAL	1,872,000 gallons (7,086,291 liters)	US \$7,956
TOTAL COST OF USING WORN NOZZLES:		US \$182,800

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

LIQUID PRESSURE

	lb/In ² (psi)	Ft Water	Kg/Cm ²	Atmosphere	Bar	Inch Mercury	kPa (kilopascal)
lb/In ² (psi)	•	2.31	.070	.068	.069	2.04	6.895
Ft Water	.433	•	.030	.029	.030	.882	2.99
Kg/Cm ²	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	1.0×10^{-4}	3.94×10^{-5}	–	–
Mil	25.4	•	2.54×10^{-2}	2.54×10^{-3}	.001	8.33×10^{-5}	–
Millimeter	1000	39.4	•	.10	.0394	3.28×10^{-3}	.001
Centimeter	10000	394	10	•	.394	.033	.01
Inch	2.54×10^4	1000	25.4	2.54	•	.083	.0254
Foot	3.05×10^5	1.2×10^4	305	30.5	12	•	.305
Meter	1.0×10^6	3.94×10^4	1000	100	39.4	3.28	•

MISCELLANEOUS EQUIVALENTS

Unit	Equivalent
Ounce	28.35 g
Pound	.4536 kg
Horse-Power	.746 kW
British Thermal Unit	.252 kcal
Square Inch	6.452 cm ²
Square Foot	.09290 m ²

MISCELLANEOUS FORMULAS

Unit	Formula
Fahrenheit (°F)	= $9/5$ (°C) + 32
Celsius (°C)	= $5/9$ (°F) – 32
Circumference of a Circle	= $3.1416 \times \text{Dia.}$
Area of a Circle	= $.7854 \times (\text{Dia.})^2$
Volume of a Sphere	= $.5236 \times (\text{Dia.})^3$
Area of a Sphere	= $3.1416 \times (\text{Dia.})^2$

DIMENSIONS

The catalog tabulations show orifice dimensions as “Nom.” (nominal).



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:

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:

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:

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:

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:

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:

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:

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



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.





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
INTRODUCTION


















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
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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 inlet connection keeps grip cool when spraying hot fluids



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 inlet connection keeps grip cool when spraying hot fluids



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 valve body with nylon handle
Trigger lock and guard
Trigger-activated variable spray pattern
Front inlet connection keeps cool when spraying hot fluids



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: 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



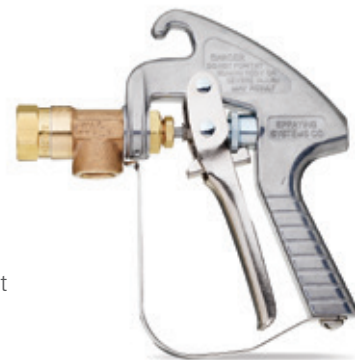
D41663-18JAN00V-0H-PA/SS

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 GUNS

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 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 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 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 valve body
Trigger lock
Extra long trigger



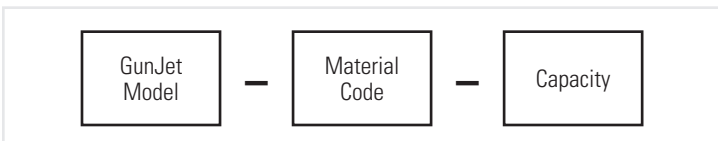
MATERIAL

CODE

Aluminum	AL
Brass	No code
Polypropylene	PP
Stainless steel	SS

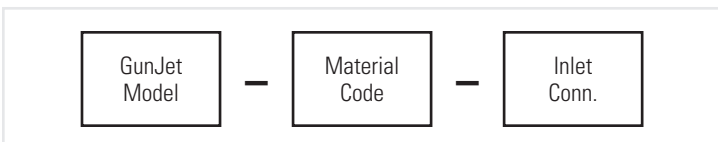
ORDERING INFORMATION

COMPLETE SPRAY GUN ASSEMBLY



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

COMPLETE SPRAY GUN ASSEMBLY



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

SPECIFICATIONS





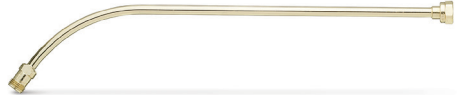





Model	Max. Operating Pressure psi (bar)	Capacity gpm (lpm)	Max. Temperature °F (°C)	Inlet Conn. in.	Outlet Conn. in.	Weight oz. (kg)	Spray Tips	Extensions	Adapters/ Swivel Connectors	Spare Parts Kits
AA30L	250 (17)	5 (19)	200 (93)	1/4 NPT or BSPT (F)	11/16–16 UniJet® THD	15 (.43)	TB, TG, TK, TN, TPU, 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 AB63140- 316EPR-KIT
CU150A-AL						22 (.62)				
CU150A-316SS						32 (.91)				
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 Nm ³ /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.










LOW PRESSURE GUNJET® SPRAY GUNS

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)	Curved with swivel nozzle body
						24 (610)	
						30 (762)	
						36 (914)	
	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)	Curved body
						18 (457)	
						24 (609)	
						30 (762)	
						36 (914)	
	48 (1219)						
	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)	Curved, rubber insulated
						18 (457)	
						24 (610)	
						36 (914)	
48 (1219)							
	15699	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203)	Rubber insulated. (8"/203 mm length not rubber insulated)
						18 (457)	
						24 (610)	
						36 (914)	
48 (1219)							
	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.

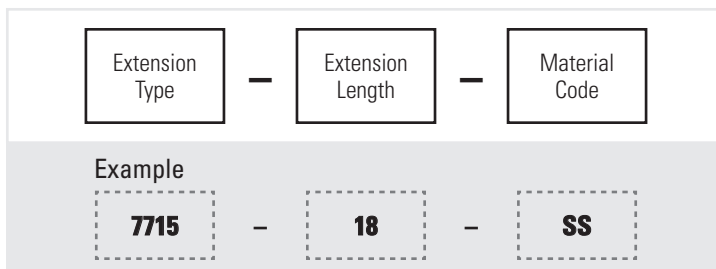
LOW PRESSURE GUNJET® SPRAY GUNS

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)	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
						10 (254)	
						18 (457)	
						24 (610)	
						30 (762)	
						36 (914)	
						48 (1219)	
60 (1524)							
	9702C	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203)	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
						10 (254)	
						18 (457)	
						24 (610)	
						30 (762)	
						36 (914)	
						48 (1219)	
60 (1524)							
	9702S	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
						10 (254)	
						18 (457)	
						24 (610)	
						30 (762)	
						36 (914)	
						48 (1219)	
60 (1524)							
	13781S	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
						16 (406)	
						48 (1219)	
	20400-1/4M	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or nickel-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 nickel-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



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

LOW PRESSURE GUNJET® SPRAY GUNS

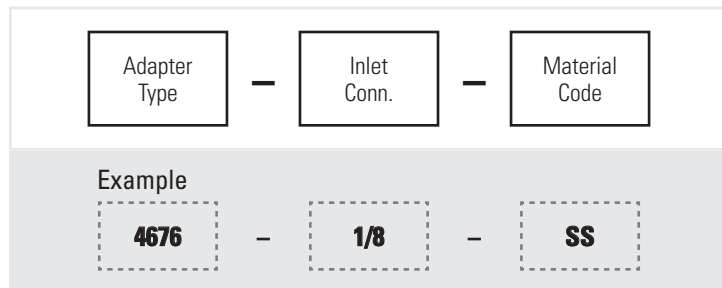
ADAPTERS FOR LOW PRESSURE GUNJET SPRAY GUNS

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)	150 (10.4)	11/16–16 UniJet® THD	11/16–16 UniJet THD	Polypropylene
	22673 (45°)				
	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
	4676-__-SS	2000 (138)			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



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
INTRODUCTION



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
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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.

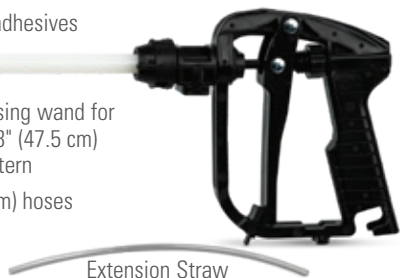


MEDIUM PRESSURE GUNJET DISPOSABLE SPRAY GUN OPTIONS

AA2-Foam

Max. operating pressure: 300 psi (21 bar)
 Max. temperature: 50°F (66°C)
 Material: Polypropylene
 Two-fluid spray gun for foam adhesives

Includes a 9" (22.7 cm) dispensing wand for splatter coat pattern and an 18" (47.5 cm) extension straw for ribbon pattern
 Two non-removable 15 ft (4.6 m) hoses connected to gun
 For use with adhesives



AA23L-45885-PP

Max. pressure: 250 psi (17 bar)
 Max. temperature: 200°F (93°C)
 Material: Polypropylene
 Trigger guard

Stop adjusting nut provides metered flow capabilities
 Includes one non-removable 15 ft. (4.6 m) hose connected to gun
 For use with adhesives



MEDIUM PRESSURE GUNJET SPRAY GUN OPTIONS

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



36533-60

Max. operating pressure: 600 psi (41 bar)
 Max. temperature: 200°F (93°C)
 Capacity: 12 gpm (45 lpm)
 Material: Brass valve body with nylon handle
 Trigger lock and guard
 Smooth and easy to operate
 Designed to withstand high impact



MEDIUM PRESSURE GUNJET® SPRAY GUNS

MEDIUM PRESSURE GUNJET SPRAY GUN OPTIONS

AA23L-45885

Max. operating pressure: 250 psi (17 bar)
 Max. temperature: 200°F (93°C)
 Capacity: 0.7 gpm (2.7 lpm)
 Material: Nickel-plated steel valve body with aluminum handle
 Trigger guard
 Stop adjusting nut provides metered flow capabilities
 Tapered needle
 Threaded valve seat



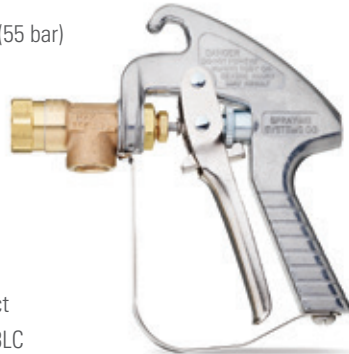
AA23H

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



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



AA31-63830BR

Max. operating pressure: 500 psi (35 bar)
 Max. temperature: 200°F (93°C)
 Capacity: 5 gpm (19 lpm)
 Material: Brass valve body and extension
 Extension length options: 8" (203 mm), 18" (457 mm), 24" (610 mm), or 36" (914 mm)
 Internal shut-off cable provides shut-off at the spray tip
 Easy nozzle changeout – nozzle seat screws into the end of the extension



ORDERING INFORMATION

COMPLETE SPRAY GUN ASSEMBLY

GunJet Model	—	Inlet Material Code	Example	—	
			AA23L	—	SS

MATERIAL

CODE

Brass	No code
Stainless steel	SS

COMPLETE AA31-63830BR SPRAY GUN ASSEMBLY

GunJet Model	—	Extension Length	Example	—	
			AA31-63830BR	—	8

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

MEDIUM PRESSURE GUNJET® SPRAY GUNS

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
AA2-Foam-15	300 (21)	2.3 (8.7)	50 (66)	1/4JIC (F) on hose	1/4 Turn Quick UniJet	10 (.28)	TPU UniJet	117185-10-NY Static Mixer Ext Asby/Kit	–	–
AA23L-45885-PP	250 (17)	0.7 (2.7)	200 (93)	1/4JIC (F) on hose	1/4 Turn Quick UniJet	6 (.17)	TPU UniJet	–	–	–
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
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-45885	250 (17)	0.7 (2.7)	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
AA31-63830BR	500 (35)	5 (19)	200 (93)	1/4 NPT or BSPT (F)	11/16-16 UniJet THD	Varies based on extension length	EG, TB, TG, TK, TN, TP, TPU UniJet	Extension included	–	AB31-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.



MEDIUM PRESSURE GUNJET® SPRAY GUNS








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)	Curved body
						18 (457)	
						24 (609)	
						30 (762)	
						36 (914)	
	48 (1219)						
	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)	Curved, rubber insulated
						18 (457)	
						24 (610)	
						36 (914)	
						48 (1219)	
	15699	1000 (69)	11/16–16 UniJet THD	11/16–16 UniJet THD	Brass	8 (203)	Rubber insulated. (8"/203 mm length not rubber insulated)
						18 (457)	
						24 (610)	
						36 (914)	
						48 (1219)	
	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.

MEDIUM PRESSURE GUNJET® SPRAY GUNS

EXTENSIONS FOR MEDIUM PRESSURE GUNJET SPRAY GUNS

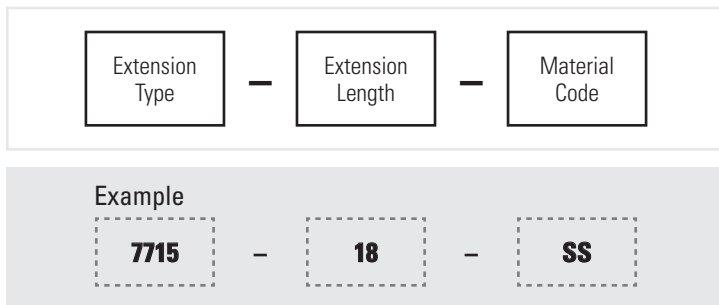
Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	9702A	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203)	Projects spray at 90° angle to inlet. Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap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



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

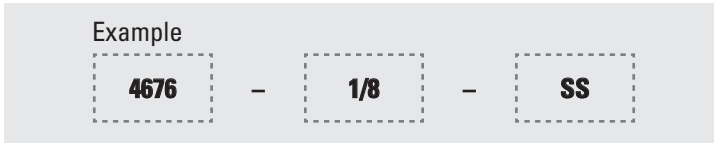
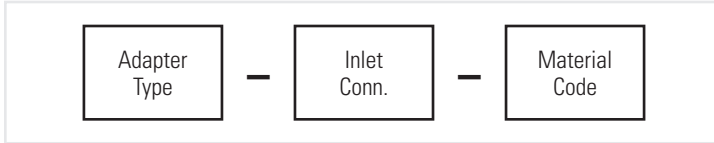
Adapter	Adapter Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material
	4676	1000 (69)	11/16–16 UniJet THD	1/8, 1/4, 3/8, 1/2, 3/4 NPT or BSPT (F)	Brass
	7599	1000 (69)	1/4, 3/8 NPT or BSPT (F)	1/4, 3/8 NPS	Nickel-plated brass
	4676-__-SS	2000 (138)	11/16–16 UniJet THD	1/8, 1/4, 3/8,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

MEDIUM PRESSURE GUNJET® SPRAY GUNS

ORDERING INFORMATION

COMPLETE ADAPTER ASSEMBLY



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
INTRODUCTION










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
TABLE OF CONTENTS**

HIGH PRESSURE GUNJET® 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 inlet connection keeps grip cool when spraying hot fluids
 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 inlet connection keeps grip cool when spraying hot fluids



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



Example



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

HIGH PRESSURE GUNJET® SPRAY GUNS

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

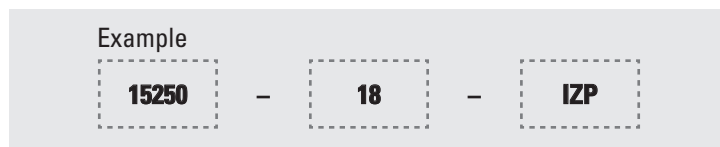
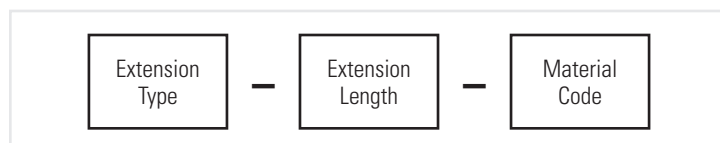
*Use with adapter 14643-1/4-SSP or 14643-1/4-IENP.

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



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)	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
24 (610)							
48 (1219)							
60 (1524)							
	9702C	2000 (138)	11/16–16 UniJet THD	–	Mild steel	10 (254)	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
24 (610)							
48 (1219)							
60 (1524)							
	9702S	2000 (138)	11/16–16 UniJet THD	–	Mild steel	10 (254)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
24 (610)							
48 (1219)							
60 (1524)							
	13781S	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
16 (406)							
48 (1219)							
	15250	3000 (207)	3/8 NPT or BSPT (M)	11/16–16 UniJet THD	Stainless steel or zinc-plated steel	18 (457)	Adjustable hand grip. Neoprene insulated cover
36 (914)							
	20400-1/4M	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or nickel-plated steel	18 (457)	Neoprene insulated cover
36 (914)							
	20400-1/8F	3000 (207)	1/4 NPT or BSPT (M)	1/8 NPT or BSPT (F)	Stainless steel or nickel-plated steel	18 (457)	Neoprene insulated cover
36 (914)							
	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.

HIGH PRESSURE GUNJET® SPRAY GUNS

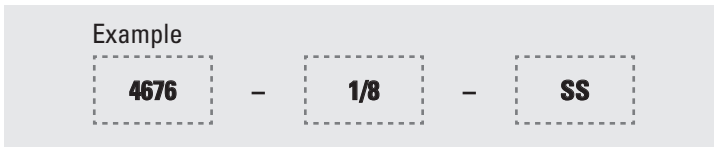
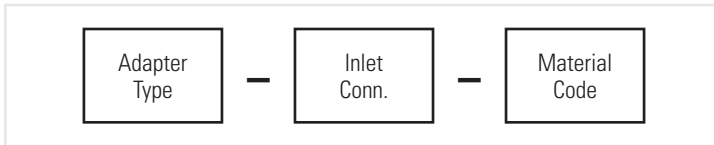
ADAPTERS FOR HIGH PRESSURE GUNJET SPRAY GUNS

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



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
INTRODUCTION



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](#)

A C C E S S O R I E S
T A B L E O F C O N T E N T S

 SWIVEL CONNECTORS AND LIQUID STRAINERS	PAGE E4
 SPRAY GUN EXTENSIONS	PAGE E6
 SPRAY GUN INLET AND OUTLET ADAPTERS	PAGE E9
 SPRAY NOZZLES AND TIPS	PAGE E10



ACCESSORIES

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

<div style="border: 1px solid black; padding: 5px; display: inline-block;">Swivel Type</div> - <div style="border: 1px solid black; padding: 5px; display: inline-block;">Material Code</div>	<p>Example</p> <div style="border: 1px dashed gray; padding: 5px; display: inline-block; margin-right: 10px;">15950</div> - <div style="border: 1px dashed gray; padding: 5px; display: inline-block;">SS</div>
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BSPT connections require the addition of a "B" in the prefix of the part number. Example: B15950.










SPRAY GUN CONNECTORS

<div style="border: 1px solid black; padding: 5px; display: inline-block;">Swivel Type</div> - <div style="border: 1px solid black; padding: 5px; display: inline-block;">Inlet Conn.</div> x <div style="border: 1px solid black; padding: 5px; display: inline-block;">Outlet Conn.</div>	<p>Example</p> <div style="border: 1px dashed gray; padding: 5px; display: inline-block; margin-right: 10px;">21550</div> - <div style="border: 1px dashed gray; padding: 5px; display: inline-block; margin-right: 10px;">1/4F</div> x <div style="border: 1px dashed gray; padding: 5px; display: inline-block;">1/4M</div>
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BSPT connections require the addition of a "B" in the prefix of the part number. Example: B21550.






ACCESSORIES

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)	Curved with swivel nozzle body
						24 (610)	
						30 (762)	
						36 (914)	
	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)	Curved body
						18 (457)	
						24 (609)	
						30 (762)	
						36 (914)	
	48 (1219)						
	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)	Curved, rubber insulated
						18 (457)	
						24 (610)	
						36 (914)	
48 (1219)							
	15699	1000 (69)	11/16-16 UniJet THD	11/16-16 UniJet THD	Brass	8 (203)	Rubber insulated. (8"/203 mm length not rubber insulated)
						18 (457)	
						24 (610)	
						36 (914)	
48 (1219)							
	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.



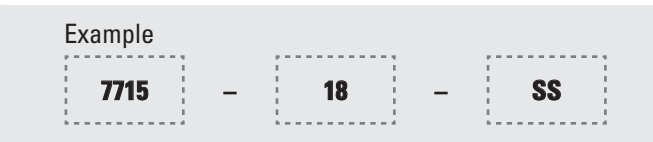
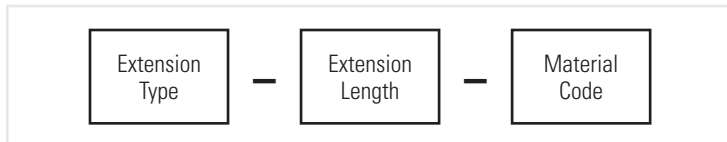
Extension	Extension Type	Max. Pressure psi (bar)	Inlet Conn. in.	Outlet Conn. in.	Material	Lengths in. (mm)	Special Features
	CP12087	1000 (69)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Aluminum	8 (203)	
18 (457)							
24 (610)							
36 (914)							
	9702A	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203)	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
10 (254)							
18 (457)							
24 (610)							
30 (762)							
36 (914)							
48 (1219)							
	9702C	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203)	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
10 (254)							
18 (457)							
24 (610)							
30 (762)							
36 (914)							
48 (1219)							
	9702S	2000 (138)	11/16–16 UniJet THD	–	Mild steel	8 (203)	Usually supplied with 7890 inlet cap and a tungsten carbide spray tip (order cap and tip separately) Refer to Data Sheet 9702-1
10 (254)							
18 (457)							
24 (610)							
30 (762)							
36 (914)							
48 (1219)							
	13781S	2000 (138)	11/16–16 UniJet THD	1/4–28	Mild steel	10 (254)	Usually supplied with 7890 inlet cap and 13783 hollow cone spray tip (order cap and tip separately) Refer to Data Sheet 13775
16 (406)							
48 (1219)							
	15250	3000 (207)	3/8 NPT or BSPT (M)	11/16–16 UniJet THD	Stainless steel or zinc-plated steel	18 (457)	Adjustable hand grip. Neoprene insulated cover
36 (914)							
	20400-1/4M	3000 (207)	1/4 NPT or BSPT (M)	1/4 NPT or BSPT (M)	Stainless steel or nickel-plated steel	18 (457)	Neoprene insulated cover
36 (914)							
	20400-1/8F	3000 (207)	1/4 NPT or BSPT (M)	1/8 NPT or BSPT (F)	Stainless steel or nickel-plated steel	18 (457)	Neoprene insulated cover
36 (914)							
	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.

ACCESSORIES

ORDERING INFORMATION

COMPLETE EXTENSION ASSEMBLY

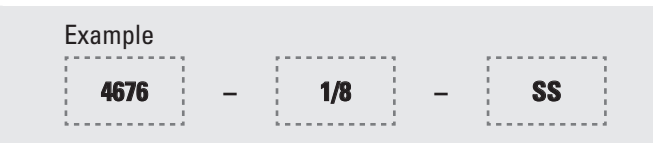
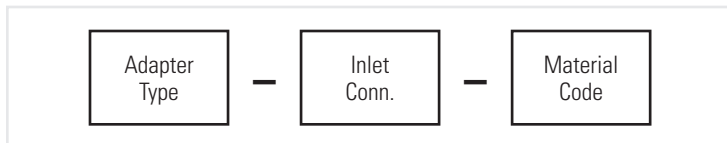


BSPT connections require the addition of a "B" in the prefix of the part number. Example: B20400.

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



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.

ACCESSORIES

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 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 Buyer's 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 (i) EXW (Incoterms® 2010) if shipped to the Buyer within the United States, and (2) in all other circumstances DAP Buyer's location (Incoterms® 2010); (b) all base prices together with related extras and deductions, are subject to Seller's price in effect at the time of shipment; and (c) notwithstanding the use of the shipping term DAP and without any effect on the point at which the risk of loss shifts from Seller to Buyer, all transportation, import costs and other related charges are for the account of Buyer, including all increases or decreases in such charges prior to shipment. Payment of said price shall be due at the remittance address shown on the Seller's invoice upon receipt of Seller's invoice unless otherwise specified. 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. Price includes Seller's standard packaging. Special packaging requirements shall be quoted at an additional price.

(3) UNIFORM COMMERCIAL CODE

THIS IS A CONTRACT FOR THE SALE OF GOODS. SELLER AND BUYER EXPRESSLY AGREE THAT ANY SERVICES PROVIDED PURSUANT TO THIS CONTRACT ARE MERELY INCIDENTAL TO THE SALE OF GOODS, AND AS SUCH, SHALL BE DEEMED GOODS UNDER ARTICLE 2 OF THE UNIFORM COMMERCIAL CODE. SELLER AND BUYER FURTHER AGREE THAT ANY DISPUTES ARISING FROM THIS CONTRACT SHALL BE GOVERNED BY ARTICLE 2 OF THE UNIFORM COMMERCIAL CODE.

(4) MINIMUM BILLING

Contact your regional office representative for any minimum order requirements.

(5) 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, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(6) LIMITATION OF REMEDIES

Buyer's remedies under this warranty shall be limited to the replacement, repair, or refund of the purchase price for any defective product at the Seller's option. Products claimed to be defective and for which repair or replacement is desired shall be, if requested by the Seller, returned transportation prepaid to Seller's plant for inspection. Results of ordinary wear and tear, improper operation, or maintenance or use of corrosive or abrasive materials shall not be considered a defect in material or workmanship. Any component part manufactured by another is not covered by Seller's warranty, but only by such warranty as its manufacturer gives. Because of the difficulty of asserting 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.**

(7) 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.

(8) PRODUCT DISPOSAL & SUSTAINABILITY

Buyer is responsible for the disposal of goods supplied by seller in accordance with all applicable laws, regulations, and responsible recycling and/or sustainability practices.

(9) 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.

(10) 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 reestablished or (ii) cancel the unshipped balance of any order.

(11) 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) Buyer shall have sole responsibility for selection and specification of the goods appropriate for the end use of such goods.

(12) SAFETY PRECAUTIONS

Buyer shall require its employees to use all safety devices, and proper safe operation procedures as set forth in manuals and instruction sheets furnished by Seller. Buyer shall not remove or modify any such device or warning sign. It is the Buyer's responsibility to provide all means that may be necessary to effectively protect all employees from serious bodily injury which otherwise may result from the method of particular use, operation, set up or service of the goods. The operator's or machine manual, ANSI safety standards, OSHA regulations and other sources should be consulted. If Buyer fails to comply with provisions of this paragraph or the applicable standards and regulations aforementioned, and a person is injured as a result thereof, Buyer agrees to indemnify and save Seller harmless from any liability or obligation incurred by Seller.

(13) CANCELLATION

Orders for goods specifically 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 Seller and subject to conditions then to be agreed upon which shall include, without limitation, protection of Seller against all loss.

(14) 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 thereof furnished hereunder, constitute knowing and willful infringement of patents or trademarks arising from compliance with Buyer's designs or specifications or instructions.

(15) COMPLETE AGREEMENT

THIS CONTRACT SETS FORTH THE ENTIRE AGREEMENT AND UNDERSTANDING OF THE PARTIES RELATING TO THE SUBJECT MATTER HEREOF, AND SUPERSEDES ALL PRIOR AGREEMENTS, DISCUSSIONS AND UNDERSTANDINGS BETWEEN THEM WHETHER ORAL OR WRITTEN, RELATING TO THE SUBJECT MATTER HEREOF.

(16) 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. The United Nations Convention on Contracts for the International Sale of Goods of April 11, 1980 shall be excluded.

(17) FORCE MAJEURE

Neither party shall be in default of its obligations to the other party for any period of Force Majeure. "Force Majeure" shall mean any delay or failure of a party to perform its obligations to the other party due to causes beyond its control and without its fault or negligence. This shall include, without limitation, Acts of God, strike, civil commotion, acts of government, and any other comparable, non-foreseeable, and a serious event.

(18) CONFIDENTIAL INFORMATION

Buyer shall maintain Confidential Information in confidence using the same care as used for its own Confidential Information. Buyer shall not disclose or divulge any Confidential Information received by it from Seller in connection with any products or services supplied by Seller to Buyer or to a third party without prior written consent of Seller, and Buyer may not use any Confidential Information for any purpose other than for the manufacture, sale and maintenance of Buyer's products. For the purposes hereof, "Confidential Information" includes any and all information and data, including, but not limited to, any business, commercial, intellectual property, technical information and data disclosed by Seller to Buyer in connection with the sale of Seller's products to Buyer, or relating to Seller's business relationship or the definition, development, marketing, selling, manufacture or distribution of Seller's products, whether disclosed orally, in writing or electronically, and irrespective of the medium in which such information or data is embedded, whether in tangible form or contained in an intangible storage medium. Confidential Information shall include any copies or abstracts made thereof, as well as any product, apparatus, modules, samples, prototypes or parts thereof.

(19) FAIR PRACTICES

Spraying Systems Co. considers for employment and hire qualified candidates without regard to race, religion, color, sex, sexual orientation, gender, gender identity, age, national origin, ancestry, citizenship, protected veteran or disability status or any factor prohibited by law, and as such affirms in policy and practice to support and promote the concept of equal employment opportunity and affirmative action, in accordance with all applicable federal, state, provincial and municipal laws.

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



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 is also available. Visit spray.com/sprayfinder. You'll find helpful selection tools, detailed product specs and 3D CAD models for our full product line and live chat 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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