



ISO 9001:2000 Certified

# SuperKlean™

## WASHDOWN PRODUCTS

*Great Innovation At Value Pricing*



**LEAD FREE!**

Spray Nozzles

Hot & Cold Water  
Mixing Stations

Steam & Cold Water  
Mixing Stations

Hoses & Accessories

### New Products

Stainless Steel Steam Trap, Stainless Steel Strainer, DuraFlow "Mini" Wand

4

1

K

S

# **SuperKlean™**

## **WASHDOWN PRODUCTS**

### **MEETING TODAY'S CHALLENGES**

#### **Providing energy, water, and cost saving solutions**

As we all know, companies such as Coca-Cola, Nestle, and ConAgra, (just to name a few), require washdown equipment in their facilities to maintain a sanitary environment while facing challenges such as meeting FDA/USDA regulations, reducing operating costs (energy and water consumption) and becoming environmentally friendly facilities. SuperKlean has met the challenges posed above as well as doing our part to reduce the impact on our environment with the introduction of high quality steam & cold water mixers, hot & cold water mixers, hoses and ergonomically designed water saver nozzles and ball type swivel adapters.

Based in California, USA, our manufacturing facilities are all ISO 9001:2000 Certified and our products are used by some of the biggest names in the industry such as Coca Cola, Nestle Foods, Campbell Soups, Mobil, Chevron, Pfizer, Heinz Foods, Tetrapak, Proctor & Gamble and General Mills just to name a few. We sell to more than 50 countries worldwide.

#### **Producing instantaneous hot water economically to meet FDA/USDA requirements**

The unique design of our Duramix 8000 steam & cold water mixing station provides instantaneous hot water economically and safely by blending steam and cold water to the required set temperatures ideal for washdown purposes in any food processing, beverage, chemical, pharmaceutical, petroleum or any manufacturing plant where steam is available and washdown capability is essential.

#### **Environmentally friendly facility**

Our Duramix 8000 steam & cold water mixing station was specifically designed with dual outlets. Strategically positioned, one at the bottom for a hose and nozzle and one on top for hard pipe installation, our dual outlet design gives the user the ability to feed two different sources with one mixing unit. In other words, during the interval between washdown services, the second outlet can be used to feed a secondary source where hot water is needed. This specific feature drastically reduces energy producing costs, which is good for the bottom line, as the unit is capable of producing hot water for washdown as well as providing a secondary source of hot water for other uses 24 hours per day, 7 days per week.

#### **Ergonomically designed water saver nozzles and ball type swivel adapters**

Our ergonomically designed water saver nozzle design as well as our ball type swivel adapters improves worker efficiency, promotes worker safety, conserves water/sanitizers and minimizes slippery surfaces caused by puddles of water left over from open ended hoses.

Our overall priority is to fully satisfy our clientele with innovative designs. In fact, we judge our performance and success not only on how well we satisfy our customers' needs but also on the belief that our customers will ultimately determine how successful we will be.

# SuperKlean™

## WASHDOWN PRODUCTS

### Table of Contents

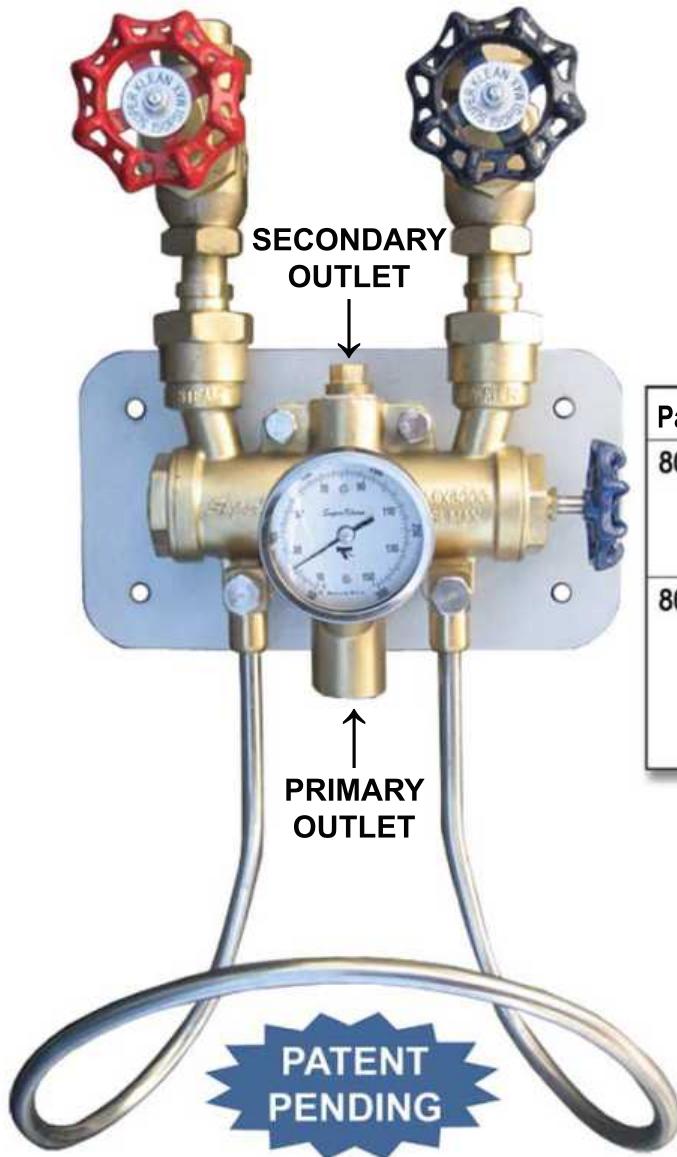
### Page

	Bronze Steam & Cold Water Mixing Unit - Duramix 8000GM-B Series.....	1
	Stainless Steel Steam & Cold Water Mixing Unit - Duramix 8000GM-S Series....	2
	Duramix 8000 Series Technical Drawings & Parts List.....	3
	Stainless Steel Steam Trap & Strainer - ST8000 & SS8000 Series.....	4
	Duramix 8000 Series Temperature Rise vs. GPM.....	5
	Brass Hot & Cold Water Mixing Unit - 3600M-B Series.....	6
	Stainless Steel Hot & Cold Water Mixing Unit - 3600M-S Series.....	7
	Ball Valve Hot & Cold Water Mixing Unit - 3600BM Series.....	8
	Single Globe/Ball Valve Hot or Cold Water Station - 6000M Series.....	9
	3/4" Ball Valves.....	10
	DuraFlow Spray Nozzles - DH150S Series.....	11
	5 Liter Sanitizer Bottle Kit & DuraFlow Nozzle Wands.....	12
	DuraFlow "Mini" Spray Nozzles - DM150S Series .....	13
	Standard Spray Nozzles - 150 Series.....	14
	Thermosmart Spray Nozzles - T150 Series.....	15
	Spray Nozzle Parts.....	16
	Swivel Adapters - 8-B & 8 Series.....	17
	3/4" FGHT Adapters x Hose Barb & 3/4" MNPT x 3/4" MGHT Adapters.....	18
	Hose Racks, 3 Piece Mixer Adapters, & Temperature Gauges.....	19
	Hoses.....	20

# BRONZE STEAM & COLD WATER MIXING UNIT

## - DURAMIX 8000GM-B SERIES

SuperKlean is proud to introduce the most innovative steam and cold water mixing unit specifically designed to provide safe and efficient means of clean up by producing hot water instantly and economically with little or no maintenance. The DURAMIX 8000 unit operates under a wide range of steam and water pressures without changing internal components. In fact, it is one of the only steam and cold water mixing units in the industry with the ability to operate with as little as 30 PSI of water pressure. Its strategic dual output design, one at the bottom for a hose and nozzle and one at the top for hard pipe installation, provides the user with the ability to supply two individual terminals with their own hot water supply. For maximum efficiency, the second outlet can be used to feed a secondary source where hot water is needed after the primary outlet has been shut off. This feature drastically reduces energy producing costs, which is good for the bottom line, as the unit is capable of producing hot water for washdown as well as providing a secondary source of hot water for other uses 24 hours per day, 7 days per week. Our unique internal design does not allow live steam to penetrate. If water pressure fails, the Duramix 8000 will automatically close the steam poppet and not allow live steam to pass through our mixing unit, thus making this unit the safest in the market.



Part #:	Description
8000GM-B	Bronze, steam and cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, and mounting bracket.
8000GM-B-T	Bronze, steam and cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, mounting bracket, and adjustable angle temperature gauge.

### Principal Parts & Materials

Inlet / Outlet Diameter: 3/4" NPT

Mixer Body: Bronze

Check Valves: Bronze / Stainless Steel

Hose Rack: 300 Series Stainless Steel

Temperature Gauge: (optional) Stainless Steel

### Recommended Operative Conditions

Working Steam Pressure (Saturated Only): 30-150 PSI

Working Water Pressure: 30-150 PSI

Maximum Temperature: 200°F (93°C)

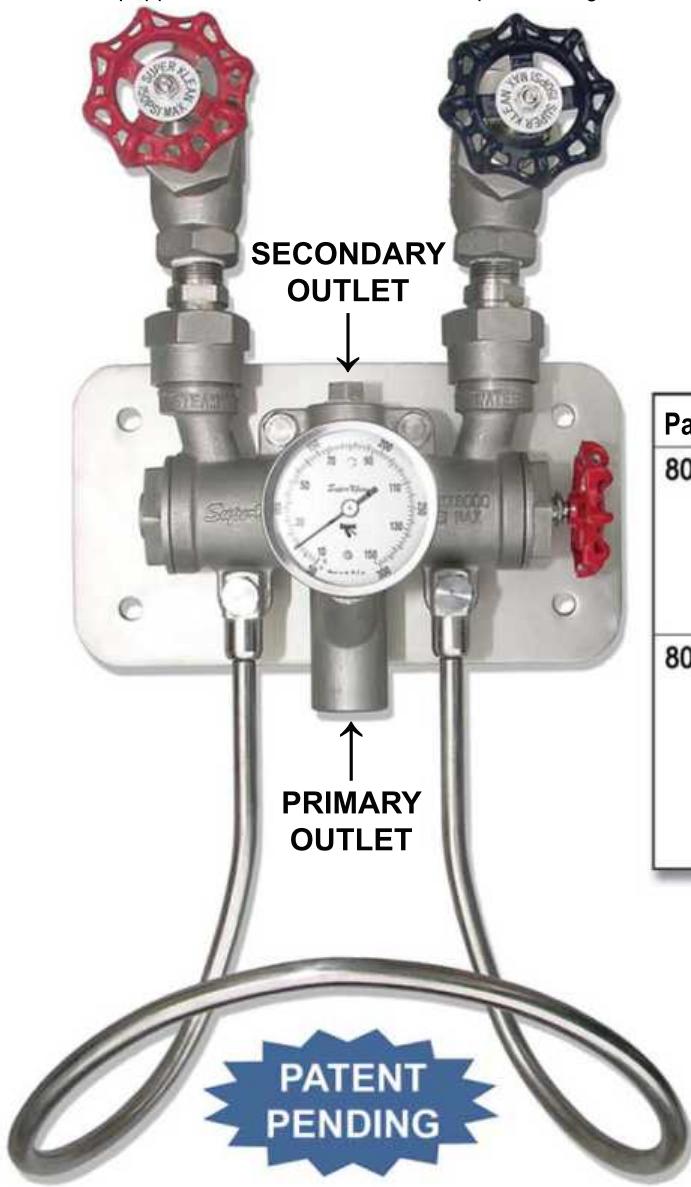
Maximum Pressure: 150 PSI

Weight: 20 Lbs.

If steam to water ratio is more than 2:1, please refer to "Operative Instructions" section 4.

# STAINLESS STEEL STEAM & COLD WATER MIXING UNIT - DURAMIX 8000GM-S SERIES

SuperKlean is proud to introduce the most innovative steam and cold water mixing unit specifically designed to provide safe and efficient means of clean up by producing hot water instantly and economically with little or no maintenance. The DURAMIX 8000 unit operates under a wide range of steam and water pressures without changing internal components. In fact, it is one of the only steam and cold water mixing units in the industry with the ability to operate with as little as 30 PSI of water pressure. Its strategic dual output design, one at the bottom for a hose and nozzle and one at the top for hard pipe installation, provides the user with the ability to supply two individual terminals with their own hot water supply. For maximum efficiency, the second outlet can be used to feed a secondary source where hot water is needed after the primary outlet has been shut off. This feature drastically reduces energy producing costs, which is good for the bottom line, as the unit is capable of producing hot water for washdown as well as providing a secondary source of hot water for other uses 24 hours per day, 7 days per week. Our unique internal design does not allow live steam to penetrate. If water pressure fails, the Duramix 8000 will automatically close the steam poppet and not allow live steam to pass through our mixing unit, thus making this unit the safest in the market.



Part #:	Description
8000GM-S	300 series stainless steel, steam and cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, and mounting bracket.
8000GM-S-T	300 series stainless steel, steam and cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, mounting bracket, and adjustable angle temperature gauge.

## Principal Parts & Materials

Inlet / Outlet Diameter: 3/4" NPT

Mixer Body: 300 Series Stainless Steel

Check Valves: 300 Series Stainless Steel

Hose Rack: 300 Series Stainless Steel

Temperature Gauge: (optional) Stainless Steel

## Recommended Operative Conditions

Working Steam Pressure (Saturated Only): 30-150 PSI

Working Water Pressure: 30-150 PSI

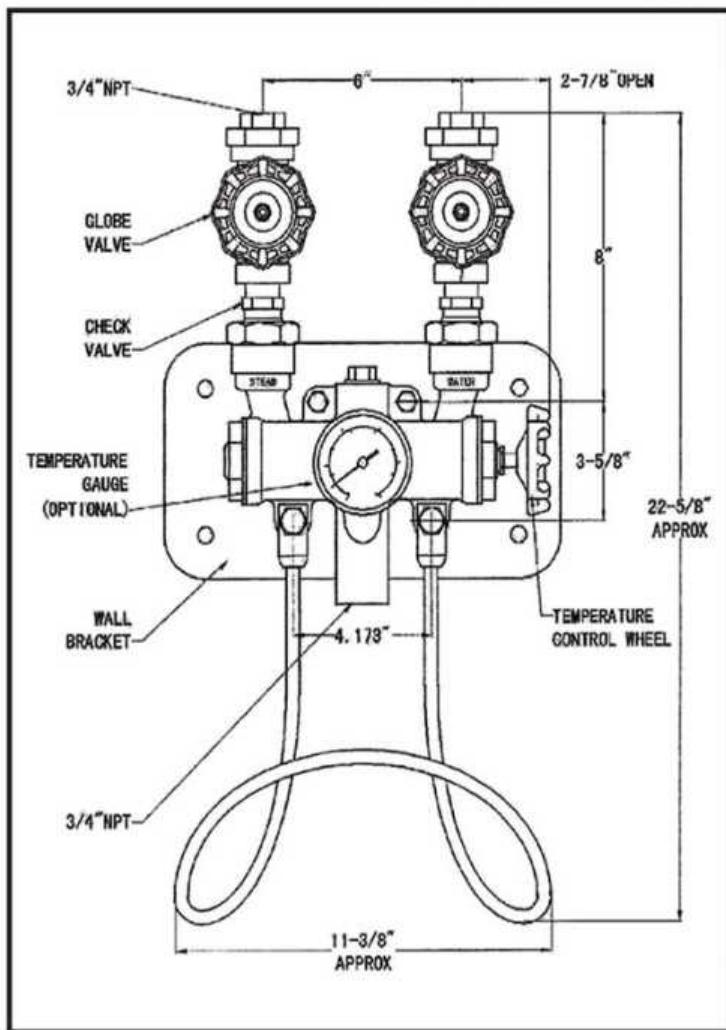
Maximum Temperature: 200°F (93°C)

Maximum Pressure: 150 PSI

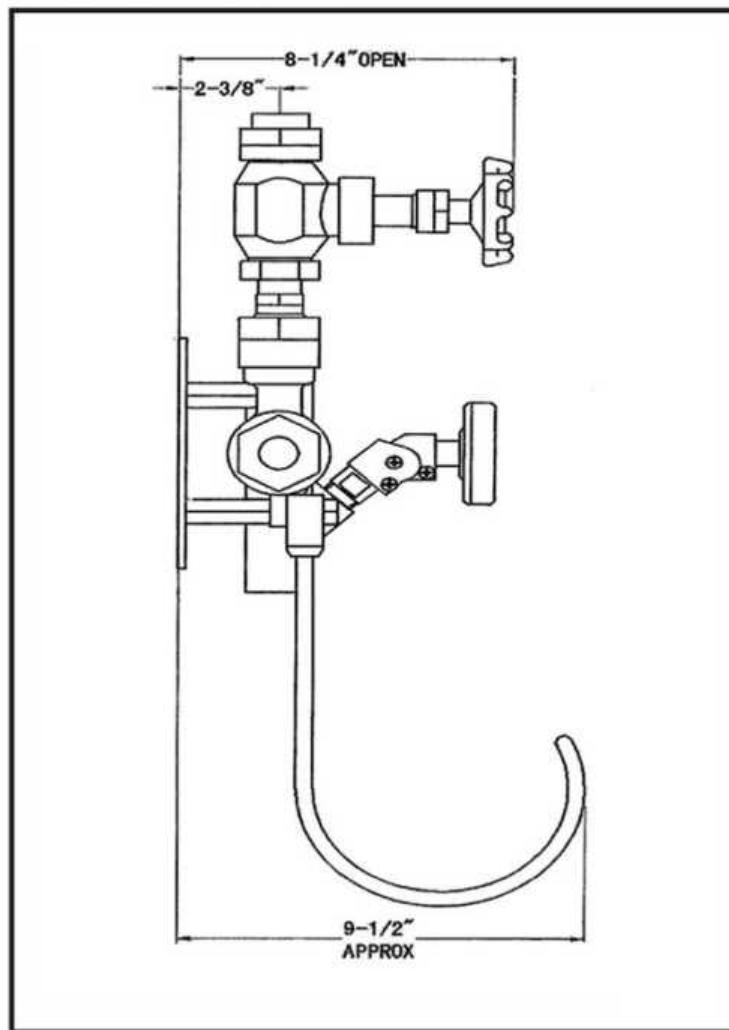
Weight: 20 Lbs.

If steam to water ratio is more than 2:1, please refer to "Operative Instructions" section 4.

# DURAMIX 8000 TECHNICAL DRAWINGS

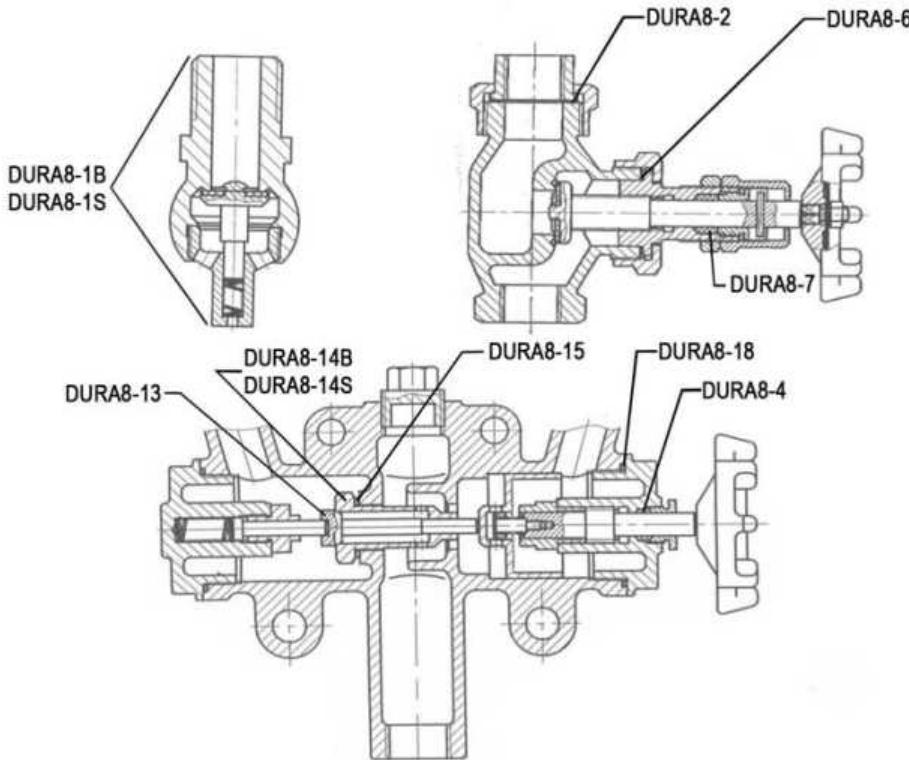


FRONT VIEW



SIDE VIEW

## DURAMIX 8000 PARTS LIST



DURAMIX 8000 PARTS	
Part #:	Description
DURA8-1B	Check valve assembly. Includes check valve poppet, spring, and Teflon coated copper connection gasket. Bronze.
DURA8-1S	Check valve assembly. Includes check valve poppet, spring, and Teflon coated copper connection gasket. Stainless steel.
DURA8-2-T	Globe valve connection gasket. Teflon. Cold water.
DURA8-2-C	Globe valve connection gasket. Copper. Steam.
DURA8-4	Temperature control stem guide Teflon filling.
DURA8-6	Globe valve stem guide nut gasket. Teflon.
DURA8-7	Globe valve stem guide Teflon filling.
DURA8-13	Steam poppet. Stainless steel.
DURA8-14B	Steam poppet seat. Bronze. (DURA8-13 required)
DURA8-14S	Steam poppet seat. Stainless steel. (DURA8-13 required)
DURA8-15	Steam poppet seat copper gasket.
DURA8-18	Temperature control chamber plate gasket. Teflon.

## STEAM TRAP & STRAINER - ST8000 & SS8000 SERIES

SuperKlean proudly introduces our newest line of steam & cold water mixing station accessories, our stainless steel steam trap and stainless steel strainer. Our efficient disc type steam traps incorporate strainers into their design and were specifically designed to save energy with minimal steam loss while providing the user with long life and dependable service. The incorporated strainer built into the steam trap accomplishes the task of installing a strainer and steam trap into one simple installation, thus saving time and money.

Our Y-type strainers were specifically designed to screen out particulate matter in a piping system so as to provide efficient operation in your piping system. Both our stainless steel steam trap and our stainless steel Y-type strainer are manufactured according to our high standards and are guaranteed to provide you with energy saving and a cleaner, healthier environment.

STEAM TRAP & STRAINER	
Part #:	Description
ST8000-SS	3/4" disc type steam trap. Includes internal strainer. 304 series stainless steel.
SS8000-SS	3/4" Y-type strainer. 304 series stainless steel.



Steam Trap



Strainer

### Principal Parts & Materials

Inlet / Outlet Diameter: 3/4" NPT

Body: 304 Series Stainless Steel

Gaskets: Copper

Screen: 20 Mesh

Blow down valve opening: 1/2" NPT

### Recommended Operative Conditions

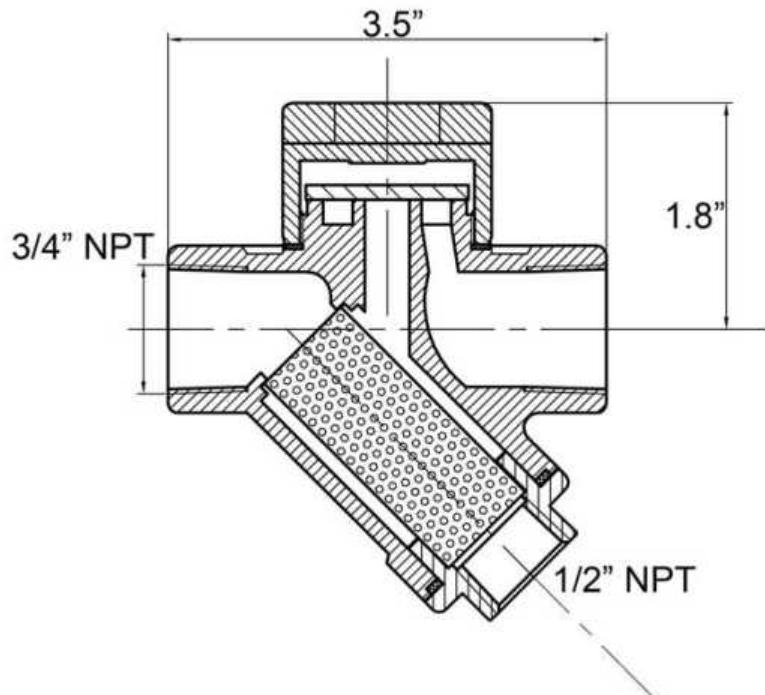
Maximum Steam Pressure (Saturated Only): 600 PSI

Maximum Water Pressure: 600 PSI

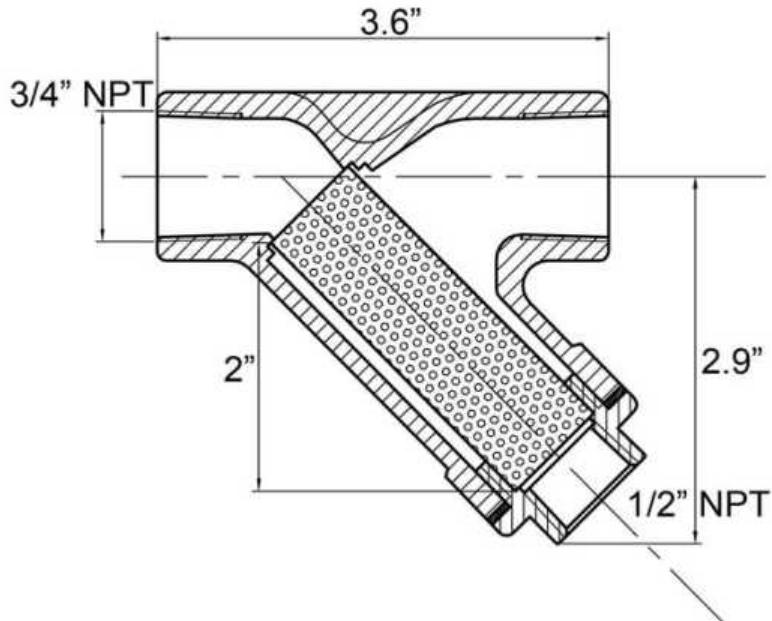
Maximum Temperature: 800°F (427°C)

Weight: Steam Trap 1.5 Lbs. / Strainer 1 Lb.

Steam Trap



Strainer



# DURAMIX 8000 TEMPERATURE RISE VS. OUTPUT FLOW RATE

(Charts below are for reference purposes only)  
(Saturated Steam Only)

For example, provided you have the following:

1. Inlet water: 60 PSI @ 50°F (10°C)
2. Inlet steam: 75 PSI
3. Desired output: 12 GPM @ 105°F (41°C)

Temperature rise in F° should be converted to temperature rise in C° using the following formula:  
Temp. Rise C° = (Temp. High F° - Temp. Low F°) / 1.8

Temperature Rise = 105-50 = 55°F. By examining the table with 55°F temperature rise, we discover that a water output of 12.1 GPM can be achieved with 60 PSI water and 75 PSI steam. This means that one Duramix 8000 unit will be able to produce 12.1 GPM @ 105°F at the outlet, thus satisfying the requirements. Please note that in some cases, it will be necessary to install multiple Duramix 8000 units if desired outflow is higher than what is indicated on this chart.

0°F (0°C) Temperature Rise Flow Rate: (30 PSI water pressure) 13.1 GPM, (45 PSI water pressure) 13.3 GPM, (60 PSI water pressure) 13.6 GPM, (75 PSI water pressure) 13.8 GPM

## 55°F (31°C) Temperature Rise

(Inlet Water Temperature + 55°F (31°C) Temperature Rise = Outlet Temperature Output)

STEAM WATER	45 psi (3 Bar)	75 psi (5 Bar)	100 psi (7 Bar)	125 psi (9 Bar)	150 psi (10 Bar)
30 psi (2 Bar)	10.0 gal/min <b>37.9 l/min</b>	11.8 gal/min <b>44.7 l/min</b>	13.0 gal/min <b>49.2 l/min</b>	14.1 gal/min <b>53.4 l/min</b>	15.2 gal/min <b>57.5 l/min</b>
45 psi (3 Bar)	10.0 gal/min <b>37.9 l/min</b>	12.0 gal/min <b>45.4 l/min</b>	13.2 gal/min <b>50.0 l/min</b>	14.2 gal/min <b>53.8 l/min</b>	15.3 gal/min <b>57.9 l/min</b>
60 psi (4 Bar)	10.2 gal/min <b>38.6 l/min</b>	12.1 gal/min <b>45.8 l/min</b>	14.0 gal/min <b>53.0 l/min</b>	14.3 gal/min <b>54.1 l/min</b>	15.6 gal/min <b>59.1 l/min</b>
75 psi (5 Bar)	10.3 gal/min <b>39 l/min</b>	12.3 gal/min <b>46.6 l/min</b>	14.2 gal/min <b>53.8 l/min</b>	14.5 gal/min <b>54.9 l/min</b>	15.7 gal/min <b>59.4 l/min</b>

## 100°F (56°C) Temperature Rise

(Inlet Water Temperature + 100°F (56°C) Temperature Rise = Outlet Temperature Output)

STEAM WATER	45 psi (3 Bar)	75 psi (5 Bar)	100 psi (7 Bar)	125 psi (9 Bar)	150 psi (10 Bar)
30 psi (2 Bar)	6.5 gal/min <b>24.6 l/min</b>	8.0 gal/min <b>30.3 l/min</b>	8.5 gal/min <b>32.2 l/min</b>	9.4 gal/min <b>35.6 l/min</b>	10.2 gal/min <b>38.6 l/min</b>
45 psi (3 Bar)	6.5 gal/min <b>24.6 l/min</b>	8.2 gal/min <b>31.0 l/min</b>	9.0 gal/min <b>34.1 l/min</b>	9.6 gal/min <b>36.3 l/min</b>	10.5 gal/min <b>39.7 l/min</b>
60 psi (4 Bar)	6.8 gal/min <b>25.7 l/min</b>	8.2 gal/min <b>31.0 l/min</b>	9.9 gal/min <b>37.5 l/min</b>	10.0 gal/min <b>37.9 l/min</b>	10.7 gal/min <b>40.5 l/min</b>
75 psi (5 Bar)	6.9 gal/min <b>26.1 l/min</b>	8.3 gal/min <b>31.4 l/min</b>	10.1 gal/min <b>38.2 l/min</b>	10.3 gal/min <b>39 l/min</b>	10.9 gal/min <b>41.3 l/min</b>

## 135°F (75°C) Temperature Rise

(Inlet Water Temperature + 135°F (75°C) Temperature Rise = Outlet Temperature Output)

STEAM WATER	45 psi (3 Bar)	75 psi (5 Bar)	100 psi (7 Bar)	125 psi (9 Bar)	150 psi (10 Bar)
30 psi (2 Bar)	4.6 gal/min <b>17.4 l/min</b>	6.7 gal/min <b>25.4 l/min</b>	7.2 gal/min <b>27.3 l/min</b>	8.3 gal/min <b>31.4 l/min</b>	9.5 gal/min <b>36 l/min</b>
45 psi (3 Bar)	4.8 gal/min <b>18.2 l/min</b>	7.0 gal/min <b>26.5 l/min</b>	7.6 gal/min <b>28.8 l/min</b>	8.5 gal/min <b>32.2 l/min</b>	9.7 gal/min <b>36.7 l/min</b>
60 psi (4 Bar)	4.8 gal/min <b>18.2 l/min</b>	7.2 gal/min <b>27.3 l/min</b>	7.8 gal/min <b>29.5 l/min</b>	8.6 gal/min <b>32.6 l/min</b>	9.8 gal/min <b>37.1 l/min</b>
75 psi (5 Bar)	4.9 gal/min <b>18.5 l/min</b>	7.3 gal/min <b>27.6 l/min</b>	8.0 gal/min <b>30.3 l/min</b>	8.9 gal/min <b>33.7 l/min</b>	10.1 gal/min <b>38.2 l/min</b>

# BRASS HOT & COLD WATER MIXING UNIT - 3600M-B SERIES

SuperKlean's hot & cold water mixing unit was specifically designed for thoroughly blending hot and cold water instantly by mixing supplied hot water with cold water to achieve required temperature output. The unit uses "Y" style body mechanics with lift check valves and ball joint unions for superior flexibility during installation. SuperKlean's inlet center lines have the same dimensions as most of our competitors' units. Our units come with a mounting plate for easy behind the unit cleanup, hose rack for easy user access to the hose, and an optional temperature gauge for accurate temperature readings at outlet.

Part #:	Description
3600M-B	Brass, hot & cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, and mounting bracket.
3600M-B-T	Brass, hot & cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, mounting bracket, and adjustable angle temperature gauge.



**UNIT NOT FOR USE WITH STEAM**

## Principal Parts, Material & Ratings

**Inlet / Outlet Diameter: 3/4" NPT**

**Mixer Body: Brass**

**Globe Style Valves: Brass / Stainless Steel**

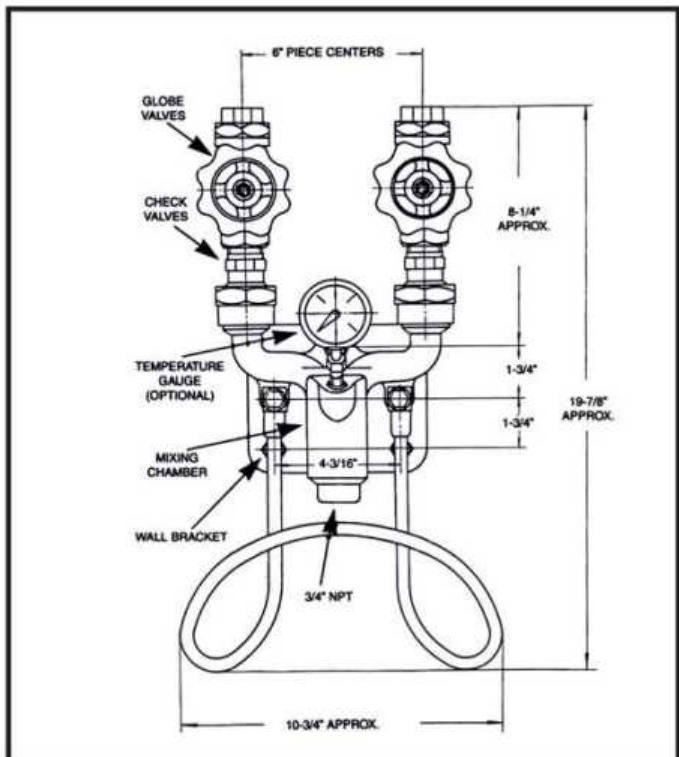
**Check Valves: Brass**

**Temperature Gauge: (optional) Stainless Steel**

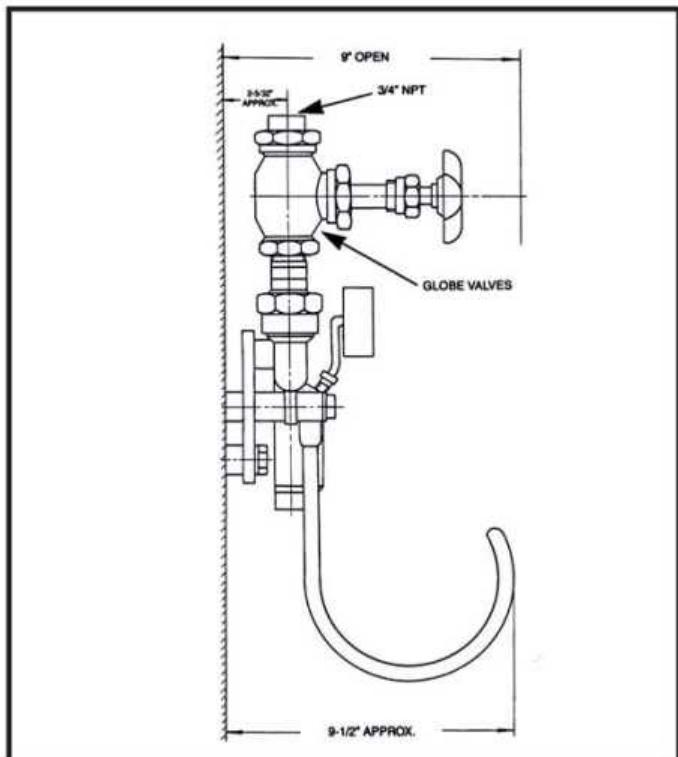
**Maximum Pressure: 150 PSI**

**Maximum Temperature: 200° F (93° C)**

**Weight: 20 Lbs.**



FRONT VIEW



SIDE VIEW

## STAINLESS STEEL HOT & COLD WATER MIXING UNIT - 3600M-S SERIES

SuperKlean's 300 series stainless steel hot & cold water mixing unit was specifically designed for thoroughly blending hot and cold water instantly by mixing supplied hot water with cold water to achieve required temperature output. The unit uses "Y" style body mechanics with lift check valves and ball joint unions for superior flexibility during installation. SuperKlean's inlet center lines have the same dimensions as most of our competitors' units. Our units come with a mounting plate for easy behind the unit cleanup, hose rack for easy user access to the hose, and an optional temperature gauge for accurate temperature readings at outlet.

Part #:	Description
3600M-S	300 series stainless steel, hot & cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, and mounting bracket.
3600M-S-T	300 series stainless steel, hot & cold water wall mounted mixer-hose station. Includes globe valves, check valves, hose rack, mounting bracket, and adjustable angle temperature gauge

### Principal Parts, Material & Rating

Inlet / Outlet Diameter: 3/4" NPT

Mixer Body: 300 Series Stainless Steel

Globe Style Valves: 300 Series Stainless Steel

Check Valves: 300 Series Stainless Steel



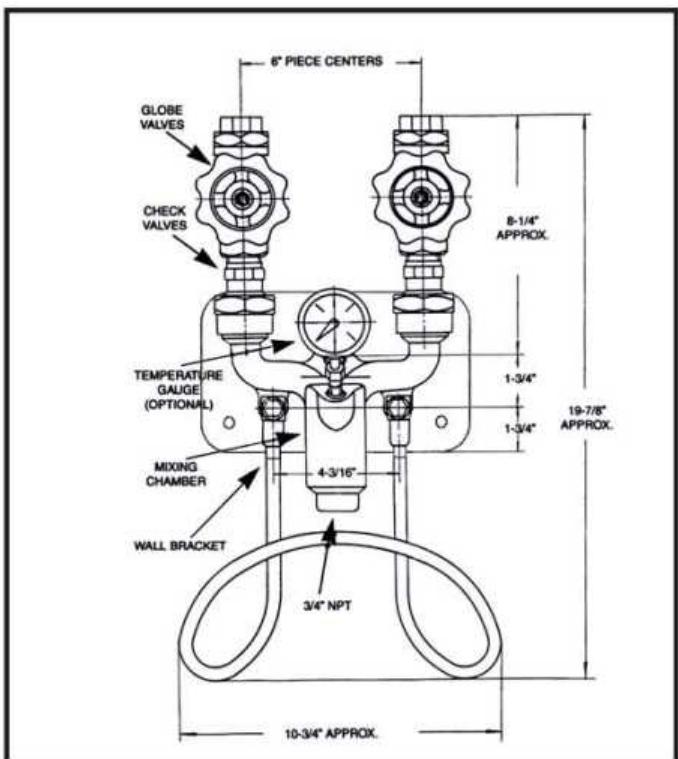
### UNIT NOT FOR USE WITH STEAM

Temperature Gauge: (optional) Stainless Steel

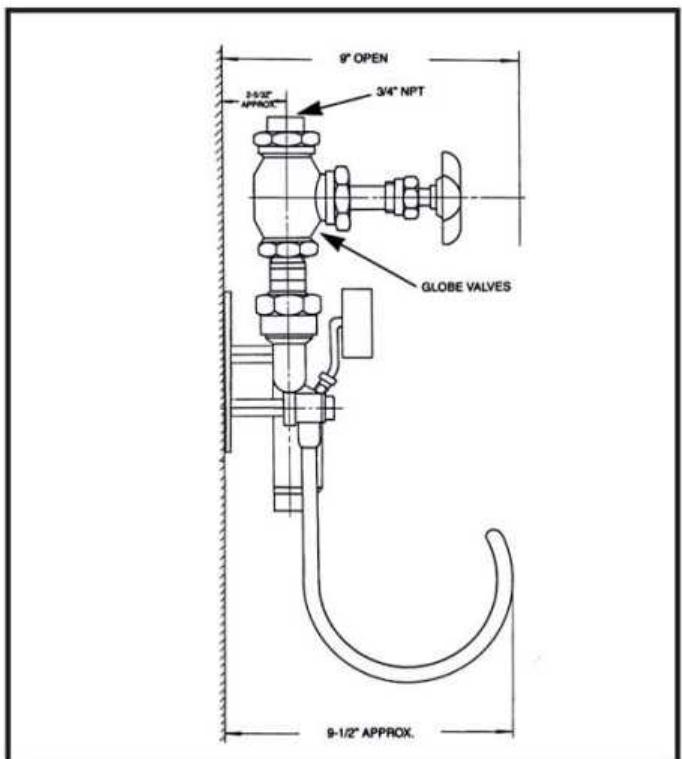
Maximum Pressure: 150 PSI

Maximum Temperature: 200° F (93° C)

Weight: 20 Lbs.



FRONT VIEW



SIDE VIEW

# BALL VALVE HOT & COLD WATER MIXING UNIT - 3600BM SERIES

SuperKlean now offers a hot & cold water mixing units with ball valves for easier shutoff while maintaining its original characteristics. The unit uses "Y" style body mechanics with lift check valves and ball joint unions for superior flexibility during installation. SuperKlean's inlet center lines have the same dimensions as most of our competitors' units. Our units come with a mounting plate for easy behind the unit cleanup, hose rack for easy user access to the hose, and an optional temperature gauge for accurate temperature readings at outlet.

Part #:	Description
3600BM-B	Brass, hot & cold water wall mounted mixer-hose station. Includes ball valves, check valves, hose rack, and mounting bracket.
3600BM-B-T	Brass, hot & cold water wall mounted mixer-hose station. Includes ball valves, check valves, hose rack, mounting bracket, and temperature gauge.
3600BM-S	300 series stainless steel, hot & cold water wall mounted mixer-hose station. Includes ball valves, check valves, hose rack, and mounting bracket.
3600BM-S-T	300 series stainless steel, hot & cold water wall mounted mixer-hose station. Includes ball valves, check valves, hose rack, mounting bracket, and temperature gauge.



## UNIT NOT FOR USE WITH STEAM

### Principal Parts & Materials

Inlet / Outlet: 3/4" NPT

Mixer Body: Brass or 300 Series Stainless Steel

Ball Valves: Bronze or 300 Series Stainless Steel

Hose Rack: 300 Series Stainless Steel

Temperature Gauge: (optional) Stainless Steel

Weight: 13 Lbs.

### Maximum Operative Conditions

Maximum Pressure: 150 PSI

Maximum Temperature: 200°F (93°C)



## SINGLE GLOBE / BALL VALVE HOT OR COLD WATER STATION - 6000M & 6000BM SERIES

SuperKlean's single valve hot or cold water station was specifically designed to provide individual outlets of hot or cold water. The unit uses two connection nuts for superior flexibility during installation. SuperKlean's inlet & outlet have the same dimensions as most of our competitors' stations. Our stations come with a mounting plate for easy behind the unit cleanup and hose rack for easy user access to the hose.

Part #:	Description
6000M-B	Brass, single globe valve hot or cold water wall mounted station. Includes hose rack and mounting bracket.
6000BM-B	Brass, single ball valve hot or cold water wall mounted station. Includes hose rack and mounting bracket.



**UNIT NOT FOR USE WITH STEAM**

## Principal Parts, Material & Ratings

**Inlet / Outlet Diameter: 3/4" NPT**

**Maximum Globe Valve Pressure: 150 PSI**

**Station Body: Brass or 300 Series Stainless Steel**

**Maximum Ball Valve Pressure: 600 PSI WOG**

**Globe Style Valve: Brass or 300 Series Stainless Steel**

**Maximum Temperature: 200° F (93° C)**

**Ball Valve: Bronze or 300 Series Stainless Steel**

**Weight: 10 Lbs. (6000M) & 8 Lbs. (6000BM)**



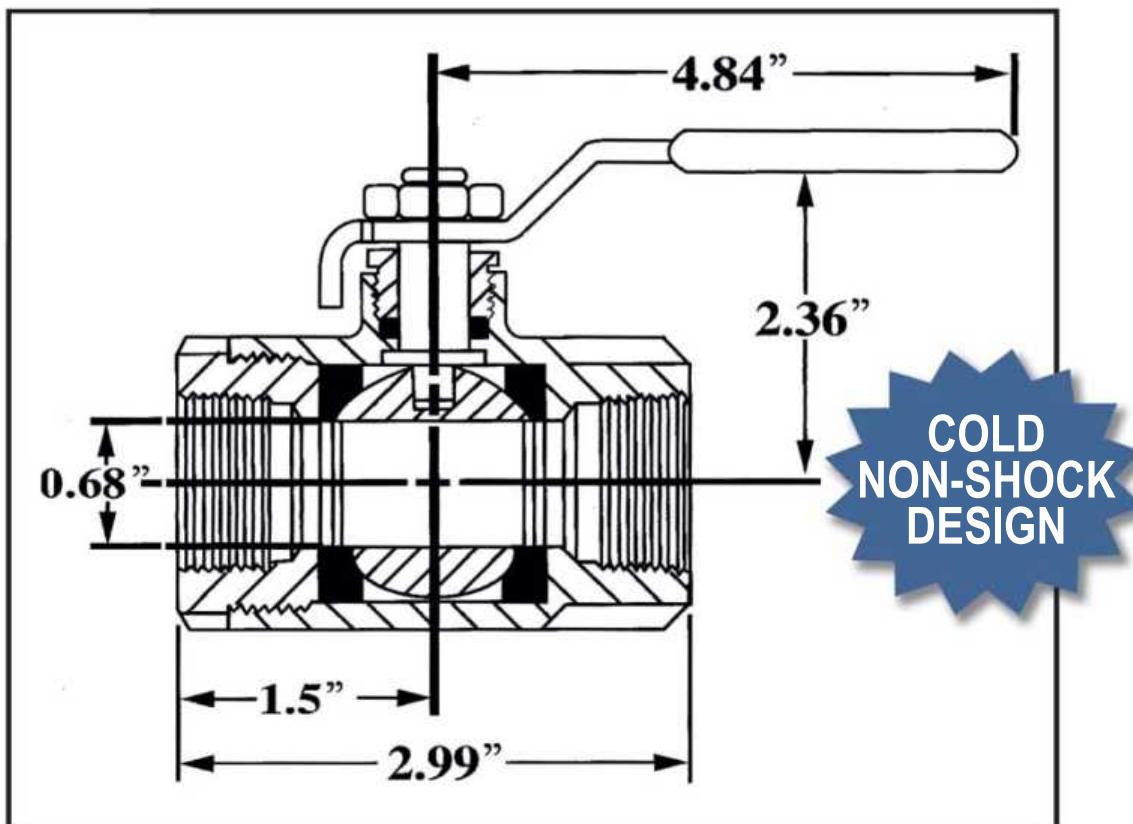
Part #:	Description
6000M-S	300 series stainless steel, single globe valve hot or cold water wall mounted station. Includes hose rack and mounting bracket.
6000BM-S	300 series stainless steel, single ball valve hot or cold water wall mounted station. Includes hose rack and mounting bracket.
6000M-S-T	300 series stainless steel, single globe valve hot or cold water wall mounted station. Includes hose rack, mounting plate, and temperature gauge.
6000BM-S-T	300 series stainless steel, single ball valve hot or cold water wall mounted station. Includes hose rack, mounting plate, and temperature gauge.

## 3/4" BALL VALVE



SuperKlean's new 3/4" ball valves give users the ability to shut down water/steam supply lines with a single pull of a lever. Its bronze or stainless steel construction enables this ball valve to be used with either water, oil, gas, or steam. All stainless steel components are 300 series stainless steel to prevent corrosion. Our 3/4" ball valve is the most widely used ball valve in the industry.

Part #:	Description
BALL VALVE-B	3/4" ball valve, Bronze (600 PSI WOG, 150 PSI, saturated steam)
BALL VALVE-SS	3/4" ball valve, Stainless Steel (600 PSI WOG, 150 PSI, saturated steam)



## Principal Parts, Materials & Rating

Inlet / Outlet Diameter: 3/4" NPT

Ball Valve Body: Bronze or Stainless Steel

Lever and Grip: Plated Steel / Stainless Steel with Vinyl

Stem Packing: Teflon

Stem Bearing: Teflon

Ball: Chrome Plated

Seats: Teflon

Retainer: Brass or Stainless Steel

Gland Nut: Brass or Stainless Steel

Stem: Brass or Stainless Steel

Lever Nut: Stainless Steel

Body Seal: Teflon

Weight: 1.28 Lbs.

Pressure Rating: 600 PSI WOG - 150 PSI STEAM

# DURAFLOW SPRAY NOZZLES

## - DH150S Series

SuperKlean's new DuraFlow spray nozzle was specifically designed to prevent accidental spray. Its unique cover design is not only durable, but also prevents the front mounted levers, which reduce hand fatigue and offer smooth lever action, from being accidentally activated when the nozzle is dropped. The new DuraFlow spray nozzles also come with a trigger locking mechanism for a safe and secure method of maintaining the nozzle open at any spray pattern.

Variable spray patterns, adjustable from fan spray to solid stream, is one of the many features offered by the new SuperKlean DuraFlow spray nozzle. Water conservation is assured upon release of lever by the drip-free automatic shutoff feature.

SuperKlean DuraFlow spray nozzles are available in 300 Series Stainless Steel and weigh a total of 1.53 Lbs.

### DURAFLOW HIGH FLOW SPRAY NOZZLES

Part #:	Description
DH150S-DB	High flow DuraFlow 300 series stainless steel nozzle with dark blue cover
DH150S-R	High flow DuraFlow 300 series stainless steel nozzle with red cover
DH150S-W	High flow DuraFlow 300 series stainless steel nozzle with white cover

\* Standard flow rates can be achieved with the purchase of flow restrictor adapter (8-FR-NPT)

STANDARD	
Inlet Pressure *(PSIG)	Flow Rate *(GPM)
25	2.93
50	3.86
75	4.91
100	5.78
125	6.71
150	7.19

HIGH FLOW	
Inlet Pressure *(PSIG)	Flow Rate *(GPM)
25	4.39
50	6.54
75	8.18
100	9.56
125	10.83
150	11.89

\*Estimated

\* 1/2" FEMALE NPT INLETS ON ALL DURAFLOW NOZZLES \*



Dark Blue

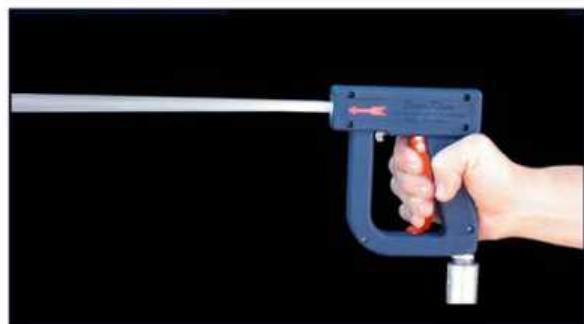
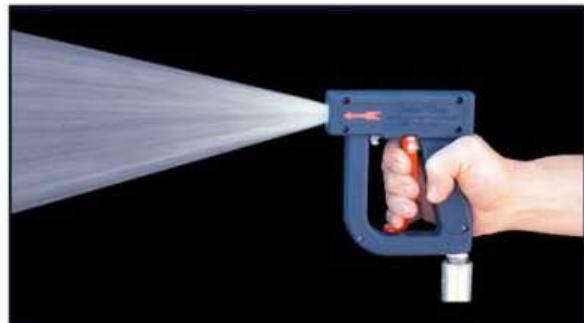


White



Red

**Rating: 150 PSI / 200°F (93°C)  
Maximum Tested Operating Pressure of 500 PSI  
NOT FOR USE WITH STEAM**



## 5 LITER SANITIZER BOTTLE KIT - D-SANITIZER SERIES

SuperKlean's 5 liter sanitizer bottle kit was specifically designed to provide the user with a means of "sanitizing" desired washdown locations with a number of given mandatory chemical sanitizers as per FDA regulations. Our 5 liter sanitizer bottle kit incorporates a spray tip that is capable of attaching to our current DuraFlow spray nozzles (DH150S series) or those of our competitors with its quick disconnect feature. Our kit comes complete with 5 liter bottle, handle, suction hose, and spray tip.

Part #:	Description
D-SANITIZER	5 liter sanitizer bottle kit with quick disconnect suction spray tip

### Principal Parts & Materials

**Suction Spray Tip:** 300 Series Stainless Steel  
**Bottle Handle:** 300 Series Stainless Steel / Rubber  
**Suction Tubing:** Polyethylene  
**Bottle:** Polyethylene  
**Maximum Pressure:** 150 PSI  
**Maximum Temperature:** 200° F (93° C)  
**Weight:** 2 Lbs. 12 oz. (Empty bottle without nozzle)



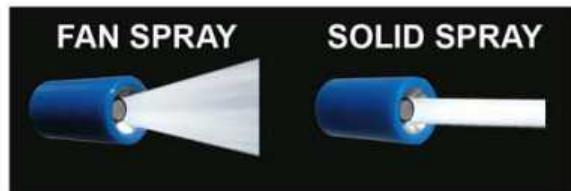
**KIT NOT FOR USE WITH STEAM**

**KIT DOES NOT INCLUDE DURAFLOW NOZZLE**

## DURAFLOW NOZZLE WAND - D-WAND & DM-WAND SERIES

SuperKlean's 1.5 foot or 3 foot stainless steel washdown wand was specifically designed to provide the user with a means of "reaching" desired washdown locations previously deemed unreachable by extending the nozzle between 1.5 - 3 feet. Our wand design incorporated a wand tip that is capable of changing spray pattern from fan spray to solid spray by simply "twisting" the tip until desired pattern is achieved as well as a quick disconnect feature that allows the user to quickly connect our wand to our DuraFlow spray nozzles (DH150S series) or those of our competitors.

Part #:	Description
DM-WAND	300 series stainless steel wand with quick disconnect and adjustable spray tip. 1.5 foot.
D-WAND	300 series stainless steel wand with quick disconnect and adjustable spray tip. 3 foot.



**UNIT NOT FOR USE WITH STEAM**

**OPTIMAL REQUIRED PRESSURE: 75 PSI**

**WANDS DO NOT INCLUDE DURAFLOW NOZZLE**



## DURAFLOW "MINI" SPRAY NOZZLES

### - DM150S Series

SuperKlean's new DuraFlow "mini" spray nozzle was specifically designed as an industrial "LIGHTWEIGHT" spray nozzle with heavyweight performance. Its unique design allows the convenience of approximately half of the weight of its bigger brother, the high flow DuraFlow nozzle. Its cover design is not only durable, but also protects the user from hot surfaces produced by high temperature washdown applications. The DuraFlow "mini" reduces hand fatigue and offers smooth lever action.

Variable spray patterns, adjustable from fan spray to solid stream, is one of the many features offered by the new SuperKlean DuraFlow "mini" spray nozzle. Water conservation is assured upon release of lever by the drip-free automatic shutoff feature.

SuperKlean DuraFlow "mini" spray nozzles are available in 300 Series Stainless Steel and weigh approximately 0.77 Lbs.

DURAFLOW "MINI" SPRAY NOZZLES	
Part #:	Description
DM150S-DB	DuraFlow "Mini" 300 series stainless steel nozzle with dark blue cover
DM150S-R	DuraFlow "Mini" 300 series stainless steel nozzle with red cover
DM150S-W	DuraFlow "Mini" 300 series stainless steel nozzle with white cover

\* Standard flow rates can be achieved with the purchase of flow restrictor adapter

STANDARD	
Inlet Pressure *(PSIG)	Flow Rate *(GPM)
25	2.93
50	3.86
75	4.91
100	5.78
125	6.71
150	7.19

HIGH FLOW	
Inlet Pressure *(PSIG)	Flow Rate *(GPM)
25	4.39
50	6.54
75	8.18
100	9.56
125	10.83
150	11.89

\*Estimated

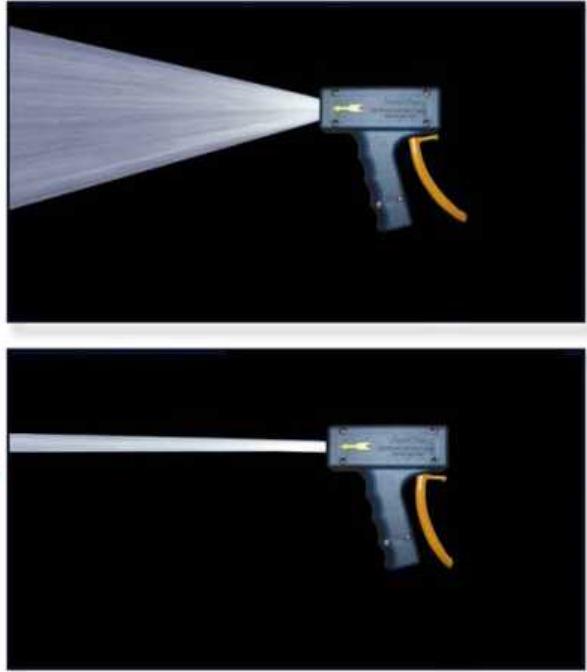


Rating: 150 PSI / 200°F (93°C)

NOT FOR USE WITH STEAM



1/2" FEMALE NPT INLETS ON ALL DURAFLOW "MINI" NOZZLES



## STANDARD SPRAY NOZZLES - 150 SERIES

SuperKlean spray nozzles have rear mounted levers which reduce hand fatigue and offer smooth lever action. The valve seat in all SuperKlean nozzles is an integral part of the nozzle body.

Variable spray patterns, adjustable from fan spray to solid stream, is one of the many features offered by SuperKlean spray nozzles. Water conservation is assured upon release of lever by the drip-free automatic shutoff feature.

SuperKlean spray nozzles are available in:

- Brass (3 lbs.)
- Anodized Aluminum (1.69 lbs.)
- 300 Series Stainless Steel (2.78 lbs.)
- 1/2" FEMALE NPT INLETS ON ALL NOZZLES

### STANDARD NOZZLES

Inlet Pressure *(PSIG)	Flow Rate *(GPM)
25	4.39
50	6.54
75	8.18
100	9.56
125	10.83
150	11.89
200	12.67
250	15.01
300	16.12
350	17.45
400	19.55
450	20.52
500	22.01

\*Estimated



Standard Aluminum Nozzle



Standard Brass Nozzle



Standard 300 Series Stainless Steel Nozzle



**Rating: 150 PSI / 200°F (93°C)**  
**Maximum Tested Operating Pressure of 500 PSI**  
**NOT FOR USE WITH STEAM**

### STANDARD NOZZLES

Part #:	Description
<b>150B-DB</b>	Brass nozzle with dark blue cover
<b>150B-R</b>	Brass nozzle with red cover
<b>150B-W</b>	Brass nozzle with white cover
<b>150A-LB</b>	Anodized aluminum nozzle with light blue cover
<b>150A-R</b>	Anodized aluminum nozzle with red cover
<b>150A-W</b>	Anodized aluminum nozzle with white cover
<b>150S-G</b>	300 series stainless steel nozzle with gray cover
<b>150S-R</b>	300 series stainless steel nozzle with red cover
<b>150S-W</b>	300 series stainless steel nozzle with white cover

## THERMOSMART SPRAY NOZZLES - T150 SERIES

SuperKlean specifically designed the temperature indicating Thermosmart spray nozzle to prevent water related burns by providing an accurate water temperature reading at the nozzle output. The Thermosmart spray nozzle provides a more accurate temperature reading than mixer mounted temperature gauges. It facilitates USDA washdown compliance and eliminates the need to verify temperature at the mixing station.

SuperKlean's Thermosmart spray nozzles are manufactured with the same characteristics as our standard spray nozzles. We offer Thermosmart spray nozzles in brass, aluminum, and stainless steel.

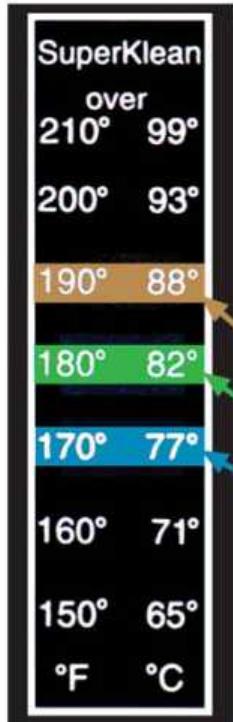
**Rating: 150 PSI / 200°F (93°C)**

**Maximum Tested Operating Pressure of 500 PSI**  
**NOT FOR USE WITH STEAM**

THERMOSMART NOZZLES	
Part #:	Description
T150B-DB	Thermosmart brass nozzle with dark blue cover
T150B-W	Thermosmart brass nozzle with white cover
T150A-LB	Thermosmart aluminum nozzle with light blue cover
T150A-W	Thermosmart aluminum nozzle with white cover
T150S-G	Thermosmart 300 series stainless steel nozzle with gray cover
T150S-W	Thermosmart 300 series stainless steel nozzle with white cover



1/2" FEMALE NPT INLET



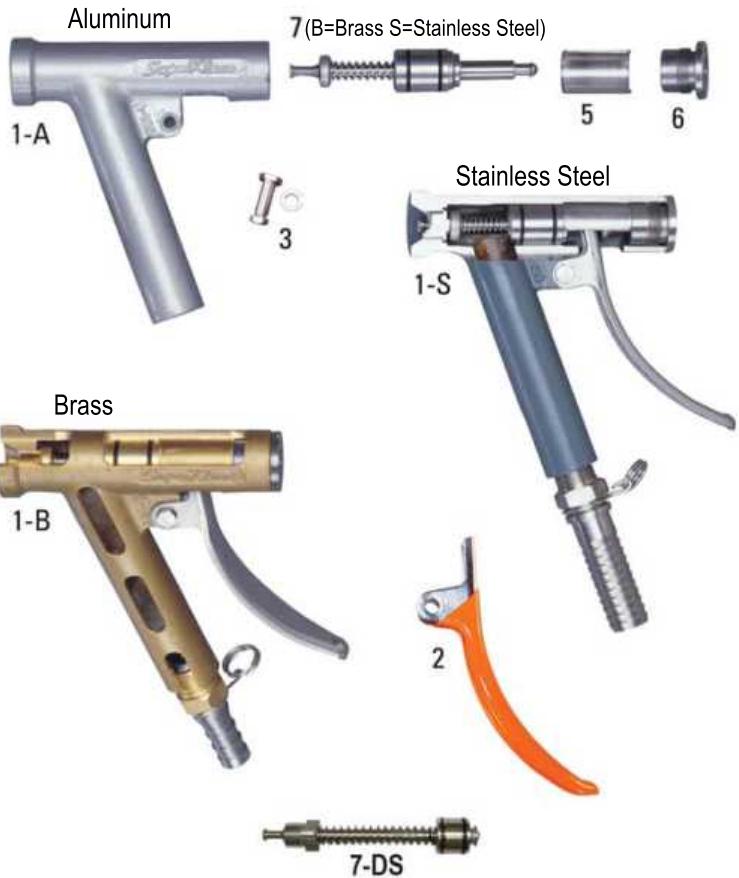
- Window turns tan when below rated temperature.
- Window turns green when within 2°F of rated temperature.
- Window turns blue when above rated temperature.

NOTE: NOT ACTUAL SIZE

## SPRAY NOZZLE PARTS

SuperKlean spray nozzles were designed for long lasting durability and to withstand abuse common in industrial environments. Our engineers used simplicity as a key factor in the design of our nozzles. SuperKlean's nozzle is considered one of the few nozzles in the sanitation equipment industry to be truly "user friendly", especially when repairs or replacements have to be made.

NOZZLE PARTS	
Part #:	Description
1-B	Nozzle body, brass, one piece, epoxy resin coated
1-A	Nozzle body, anodized aluminum, one piece, epoxy resin coated
1-S	Nozzle body, 300 series stainless steel, one piece, epoxy resin coated
2	Lever, 300 series stainless steel
3	Lever bolt, bushing & nut, 300 series stainless steel
5-B	Cage or "thrust collar", brass
5-S	Cage or "thrust collar", 300 series stainless steel
6	Lock screw or "end adapter", 300 series stainless steel
7-B	Cartridge or "barrel assembly", brass, contains all working parts
7-S	Cartridge or "barrel assembly", 300 series stainless steel, contains all working parts
7-DS	DuraFlow cartridge or "barrel assembly", 300 series stainless steel, contains all working parts



ALL SUPERKLEAN STANDARD NOZZLE PARTS ARE INTERCHANGEABLE WITH THOSE OF OUR COMPETITORS

SuperKlean's rubber nozzle covers and nylon plastic covers are specially formulated for easy installation and long lasting durability. Our covers resist a wide range of oils, fats and chemicals, while protecting the nozzle and surrounding equipment.



NOZZLE RUBBER COVERS	
Part #:	Description
4-DB	Nozzle cover, dark blue
4-LB	Nozzle cover, light blue
4-G	Nozzle cover, gray
4-R	Nozzle cover, red
4-W	Nozzle cover, white
4-DDB	DuraFlow nozzle cover, dark blue
4-DR	DuraFlow nozzle cover, red
4-DW	DuraFlow nozzle cover, white

## BALL TYPE SWIVEL ADAPTERS - 8-B SERIES

SuperKlean's new ball type swivel adapters are designed with a 2" long hose barb for a safer and more secure installation, lock O-rings replacing the traditional C-ring, and a built in lever lock ring which minimizes hand fatigue. The 360° swivel adapters prevent hose kinking as well as being ergonomically designed to provide a stress free environment by its ability to rotate with hand movements when dragging hose during normal spray.



### BALL TYPE SWIVEL ADAPTERS

Part #:	Description
<b>8-B1/2-B</b>	Swivel adapter (1/2" NPT x 1/2" hose barb, ball type), brass & 300 series stainless steel
<b>8-B1/2-S</b>	Swivel adapter (1/2" NPT x 1/2" hose barb, ball type), 300 series stainless steel
<b>8-B5/8-B</b>	Swivel adapter (1/2" NPT x 5/8" hose barb, ball type), brass & 300 series stainless steel
<b>8-B5/8-S</b>	Swivel adapter (1/2" NPT x 5/8" hose barb, ball type), 300 series stainless steel
<b>8-B3/4-B</b>	Swivel adapter (1/2" NPT x 3/4" hose barb, ball type), brass & 300 series stainless steel
<b>8-B3/4-S</b>	Swivel adapter (1/2" NPT x 3/4" hose barb, ball type), 300 series stainless steel

## STANDARD SWIVEL ADAPTERS - 8 SERIES

SuperKlean's swivel adapters are designed with a 2" long hose barb for a safer and more secure installation, lock O-rings replacing the traditional C-ring, and a built in lever lock ring which minimizes hand fatigue. The 360° swivel adapters prevent hose kinking.

### SWIVEL ADAPTERS

Part #:	Description
<b>8-1/2-B</b>	Swivel adapter (1/2" NPT x 1/2" hose barb), brass & 300 series stainless steel
<b>8-1/2-S</b>	Swivel adapter (1/2" NPT x 1/2" hose barb), 300 series stainless steel
<b>8-5/8-B</b>	Swivel adapter (1/2" NPT x 5/8" hose barb), brass & 300 series stainless steel
<b>8-5/8-S</b>	Swivel adapter (1/2" NPT x 5/8" hose barb), 300 series stainless steel
<b>8-3/4-B</b>	Swivel adapter (1/2" NPT x 3/4" hose barb), brass & 300 series stainless steel
<b>8-3/4-S</b>	Swivel adapter (1/2" NPT x 3/4" hose barb), 300 series stainless steel
<b>8-GHT-B</b>	Swivel adapter (1/2" NPT x 3/4" FGHT), brass & 300 series stainless steel
<b>8-GHT-S</b>	Swivel adapter (1/2" NPT x 3/4" FGHT), 300 series stainless steel



## FGHT x HOSE BARB SWIVEL ADAPTERS - 8-FGHT SERIES

SuperKlean's new FGHT x hose barb swivel adapters were specifically designed to complement our existing hose lines by providing our customers with a method of assembling hoses in order to attach them to existing male GHT outlets throughout plants. As with all SuperKlean adapters, they are designed with a 2" long hose barb for a safer and more secure installation. The 360° swivel adapters prevent hose kinking.



FGHT x HOSE BARB SWIVEL ADAPTERS	
Part #:	Description
8-FGHT1/2-B	Swivel adapter (3/4" FGHT x 1/2" hose barb), brass & 300 series stainless steel
8-FGHT5/8-B	Swivel adapter (3/4" FGHT x 5/8" hose barb), brass & 300 series stainless steel
8-FGHT3/4-B	Swivel adapter (3/4" FGHT x 3/4" hose barb), brass & 300 series stainless steel
8-FGHT1/2-S	Swivel adapter (3/4" FGHT x 1/2" hose barb), 300 series stainless steel
8-FGHT5/8-S	Swivel adapter (3/4" FGHT x 5/8" hose barb), 300 series stainless steel
8-FGHT3/4-S	Swivel adapter (3/4" FGHT x 3/4" hose barb), 300 series stainless steel

## 3/4" MALE NPT x 3/4" MALE GHT ADAPTERS - 8-ADAPT SERIES

SuperKlean's new male 3/4" NPT x male GHT adapters were specifically designed to complement our existing fitting line by providing our customers with a method of converting our FGHT x hose barb swivel adapters into male 3/4" NPT x hose barb swivel adapters. As with all SuperKlean adapters, we offer them in both brass and 300 series stainless steel. Once attached to the above fitting, the user is assured a 360° 3/4" NPT x hose barb swivel adapter which prevents hose kinking.

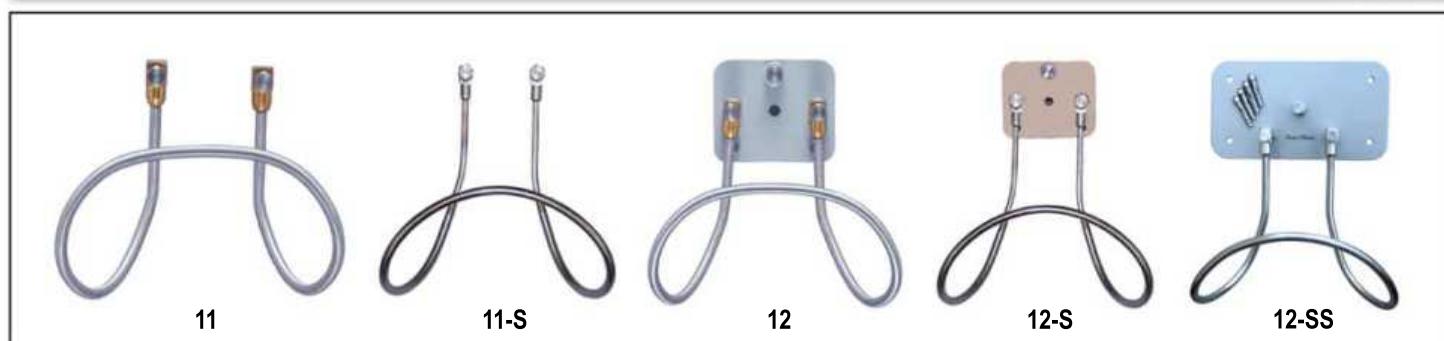


3/4" MALE NPT x 3/4" MALE GHT ADAPTERS	
Part #:	Description
8-ADAPT-B	3/4" male NPT x 3/4" male GHT adapter, brass
8-ADAPT-S	3/4" male NPT x 3/4" male GHT adapter, 300 series stainless steel

## HOSE RACKS

SuperKlean's brass and stainless steel hose racks, made out of 321 series stainless steel, are virtually corrosion resistant in most applications and environments. Its aluminum epoxy coated mounting plate was specifically designed for quick and easy installation and meets the required spacing between wall to plate and plate to units.

HOSE RACKS	
Part #:	Description
11	300 series stainless steel hose rack for unit mounting (includes stainless steel bolts & brass end fittings)
11-S	300 series stainless steel hose rack for unit mounting (includes stainless steel bolts & stainless steel end fittings)
12	300 series stainless steel hose rack for wall mounting (includes stainless steel bolts, epoxy coated aluminum plate and brass end fittings)
12-S	300 series stainless steel hose rack for wall mounting (includes stainless steel bolts, epoxy coated aluminum plate and stainless steel end fittings)
12-SS	300 series stainless steel hose rack for wall mounting (includes stainless steel mounting plate, stainless steel bolts, stainless steel end fittings, an 4 stainless steel anchor bolts)



## 3-PIECE MIXER ADAPTERS & ADJUSTABLE ANGLE TEMPERATURE GAUGE

SuperKlean 3-piece mixer adapters were specifically designed for easier installation without the hassle of hose kinking. SuperKlean's all stainless steel adjustable angle temperature gauge was specifically designed to provide accurate readings of water temperature exiting SuperKlean mixing units.



### 3-PIECE MIXER ADAPTERS & ADJUSTABLE TEMPERATURE GAUGE

Part #:	Description
9-1/2-B	3-piece mixer adapter (3/4" NPT x 1/2" hose barb), brass
9-1/2-S	3-piece mixer adapter (3/4" NPT x 1/2" hose barb), 300 series stainless steel
9-5/8-B	3-piece mixer adapter (3/4" NPT x 5/8" hose barb), brass
9-5/8-S	3-piece mixer adapter (3/4" NPT x 5/8" hose barb), 300 series stainless steel
9-3/4-B	3-piece mixer adapter (3/4" NPT x 3/4" hose barb), brass
9-3/4-S	3-piece mixer adapter (3/4" NPT x 3/4" hose barb), 300 series stainless steel
10	Adjustable angle temperature gauge, 300 series stainless steel

## HOSES

All SuperKlean hoses are flexible, lightweight, economical, durable, and safe. They come with your choice of end swivel adapter for nozzles and 3 piece adapter for mixing units. Hoses are available in lengths of 25', 50', 75', and 100' and can also be supplied in increments of 25' up to 500'. SuperKlean offers a wide variety of hose constructions and materials to suit all your washdown needs. Please review the information listed below for additional specifications on hoses offered by SuperKlean or contact us for additional details regarding your specific needs.



Hose Guard  
Optional

External Sleeve  
Optional

**HOSES NOT FOR USE WITH STEAM**  
**ALL HOSES HAVE A MAXIMUM TEMPERATURE RATING OF 200° F**

Part #:	Inner Diameter	Max Pressure	Cover Color	Cover Material	Tube Material	Reinforcement
<b>UW</b>	1/2" & 3/4"	250 PSI	White	Smooth EPDM	EPDM	4 Polyester Yarn Spirals
<b>UB</b>	1/2", 5/8" & 3/4"	250 PSI	Black	Smooth EPDM	EPDM	4 Polyester Yarn Spirals
<b>UR</b>	3/4"	250 PSI	Red	Smooth EPDM	EPDM	4 Polyester Yarn Spirals
<b>UY</b>	3/4"	400 PSI	Yellow	Smooth Nitrile	Nitrile	2 Polyester Yarn Spirals
<b>UBS</b>	5/8"	250 PSI	Black	Wrapped Neoprene	Chlorobutyl	Single Rayon Textile Braid
<b>UWS</b>	5/8"	250 PSI	White	Wrapped Hypalon	Chlorobutyl	Single Rayon Textile Braid
<b>URS</b>	5/8"	250 PSI	Red	Wrapped Neoprene	Chlorobutyl	Single Rayon Textile Braid

# Super Klean

## TERMS & CONDITIONS AGREEMENT

**GENERAL** The following terms and conditions shall constitute the entire Agreement by the Seller for the purchase and sale of A & C Consulting & Manufacturing products. Any terms and conditions contained in the Purchaser's purchase order that are different from, in addition to, or vary from A & C Consulting & Manufacturing terms & conditions shall not be binding, and are hereby excluded.

**AGREEMENT** Orders are subject to acceptance in writing by A & C Consulting & Manufacturing hereinafter referred to as the "Seller" at its Burlingame, California office.

**WARRANTY** The Seller warrants its products against defects in materials and workmanship for one year from date of shipment. The Seller's warranty will be limited to (at Seller's option) refund of the Seller's selling price, or repair or replacement of the product or part proven to be materially defective when used for the purpose for which it was intended. The Seller shall be liable for no other warranties, oral, written, express or implied. The Seller's warranty obligations and remedies hereunder are solely and exclusively as stated herein. In no event shall the Seller be liable either to customers for incidental or consequential damages or for personal injury or property damages resulting from the use of the products sold. The undertaking of repairs or replacement by Purchaser or its agents without the Seller's written consent shall relieve the Seller of all responsibility herewith.

**FORCE MAJEURE** The Seller shall endeavor to ship products specified in any acceptance order, but the Seller shall not be considered in default of its obligations hereunder if such performance is presented or delayed because of unavailability of materials, equipment, labor or technical personnel, war, labor strikes, riots, hostilities, fires, accidents, shutdowns of its manufacturing plants or plants supplying it, embargos or inability to secure transportation, or because any law, order, proclamation, regulation or ordinance, of any government; or because of acts of God or for any other cause beyond the reasonable control of the Seller.

**DELIVERY** Unless otherwise specified in writing, delivery will be FOB, Burlingame.

**PRICES & DESIGNS** Prices and designs are subject to change without notice.

**LIMITATION OF LIABILITY** No claims made by the Purchaser whether as to goods delivered or for non-delivery of goods shall be greater than the purchase price of the goods. Under no circumstances shall the Seller be liable for consequential damages.

**TAXES** All applicable federal, state or local sales, use or excise taxes are the responsibility of the Purchaser, and are in addition to prices quoted or stated. The Seller shall have the right to invoice separately any such tax as may be imposed at a later date. Applicable tax exemption certificates must accompany any order to which same applies.

**RETURN OF GOODS** The Seller will not accept return of any product unless a returned goods authorization number has first been obtained from the Seller in which case, credit will be issued after inspection and fulfillment of the following criteria:

1. All goods must be returned prepaid freight and in original condition, if not, credit will not be issued and goods will be returned to Purchaser at Purchaser's expense.
2. A stocking and handling charge of 20% will be imposed on all returned goods.
3. Transportation charges on all returned goods are to be paid by Purchaser in all cases.

**CANCELLATION** A purchase order or any part thereof which is accepted by the Seller may not be cancelled unless, and until the Seller has deemed what action is necessary and advisable to minimize costs resulting from cancellation. Orders for non-customized goods that have already been shipped are subject to a 20% handling and restocking charge.

**TERMS OF PAYMENT** U.S. terms of payment are 1% less, net 30 upon credit approval. The seller reserves the right to defer shipment until receipt of cash. In the Seller's judgment, the Purchaser's financial condition becomes unsatisfactory. A service charge of 1 1/2% per month will be charged on all accounts that exceed 60 days from date of invoice. The Seller reserves the right to alter the payment terms.

**PARTIAL INVALIDITY** If any provision of this Agreement is or becomes unenforceable or invalid at any time under law, rule or regulation, no other provisions of this Agreement shall be affected thereby and remaining provisions of this Agreement shall continue in force as if such unenforceable or invalid provision did not exist.

**GOVERNING LAW** This Agreement shall be governed in all respects by the laws of California.

**ARBITRATION** All disputes between the Purchaser and Seller in relation with this Agreement shall be settled through negotiation. In the event where no settlement can be reached through negotiation, the dispute shall be submitted for Arbitration. The Arbitration shall take place in San Francisco, California USA. The decision of the Arbitration shall be accepted as final and binding upon both parties. Arbitration expenses shall be borne by the losing party. Arbitration shall be conducted by the American Arbitration Association pursuant to its rules and procedures unless otherwise agreed upon by the parties.