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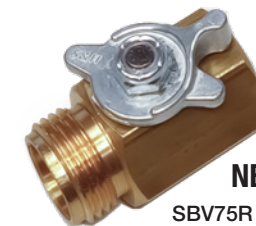
FEATURED PRODUCTS



Constant Flow

MODEL #	FLOW RATE	INLET	WT LENGTH
NEW! 105BL (bumperless)	5 GPM	1" NST OR NPSH	1lb / 4"
NEW! 105BL GHT (bumperless)	5 GPM	3/4" GHT	1lb / 4"
NEW! 105	5 GPM	1" NST OR NPSH	1lb / 4"
NEW! 105 GHT	5 GPM	3/4" ght	1lb / 4"

More Constant Flow Tip Options on Page 11



Brass Garden Hose Shutoff

MODEL#	INLET/OUTLET	WATERWAY SIZE	FEATURES	MAX WORKING PRESSURE
NEW! SBV75R	3/4" GHT rigid Fe. x 3/4" GHT M.	3/8"	Front & Rear Seals Lightweight & Durable Brass	300psi

More Options on Pages 15-19

T's

MODEL#	FE. x M. x M. SIZES	THREAD TYPE	CAP & CHAIN	VALVE	CONSTRUCTION
TV1510	1.5" x 1.5" x 1"	Any Combo	NST OR NPSH	no	in-line Cast Aluminum
NEW! T-1-75	1" x 1" x 3/4"	NPSH X NPSH X GHT	yes	no	Cast Aluminum
T-1	1" x 1" x 1"	NPSH X NPSH X NPSH	yes	no	Cast Aluminum
T-1.5 NH X NP	1.5" x 1.5" x 1"	NST X NST X NPSH	yes	no	Cast Aluminum
NEW! T-1.5 NH X NH	1.5" x 1.5" x 1"	NST X NST X NST	yes	no	Cast Aluminum

More Options on Pages 15-19



Spanners

MODEL#	FEATURES
NEW! SW1	Single-sided Spanner Wrench
NEW! SW2	Double-sided Spanner Wrench

See Page 16

VIPER 2.0 - SPARTAN CONSTANT NFPA Compliant

VS25

Constant Flow- 30 GPM @ 100 psi (Standard)
1" Swivel inlet NST or NPSH threads
Specify flow and pressure when ordering
Wt: 2.8 lbs. Length: 7.75" Width: 3.4"



VS95

Constant Flow- 95 GPM @ 100 psi (Standard)
1.5" Swivel inlet NST or NPSH threads
Specify flow and pressure when ordering
Wt: 4 lbs. Length: 9.84"



MODEL #	FLOW RATE	OPERATING PRESSURE OPTIONS
VS25-15	15GPM	100psi 75psi
VS25-30	30GPM	100psi 75psi 50psi
VS25-40	40GPM	100psi 75psi 50psi
VS25-50	50GPM	100psi 75psi 50psi
VS25-75	75GPM	100psi

MODEL #	FLOW RATE	OPERATING PRESSURE OPTIONS
VS95-50	50GPM	100psi 75psi 50psi
VS95-60	60GPM	100psi 75psi 50psi
VS95-75	75GPM	100psi 75psi 50psi
VS95-95	95GPM	100psi 75psi 50psi
VS95-125	125GPM	100psi

VS150

Constant Flow- 200 GPM @ 100 psi (Standard) 1.5" Swivel inlet NST or NPSH threads. Specify flow and pressure when ordering.
Wt: 6.5 lbs. Length: 11.2"



VS250

Constant Flow- 200 GPM @ 100 psi (Standard) 2.5" Swivel inlet NST threads only. Specify flow and pressure when ordering.
Wt: 6.7 lbs. Length: 12"



VS300

Constant Flow- 250 GPM @ 100 psi (Standard) 2.5" Swivel inlet NST threads only. Specify flow and pressure when ordering.
Wt: 7.5 lbs. Length: 13"

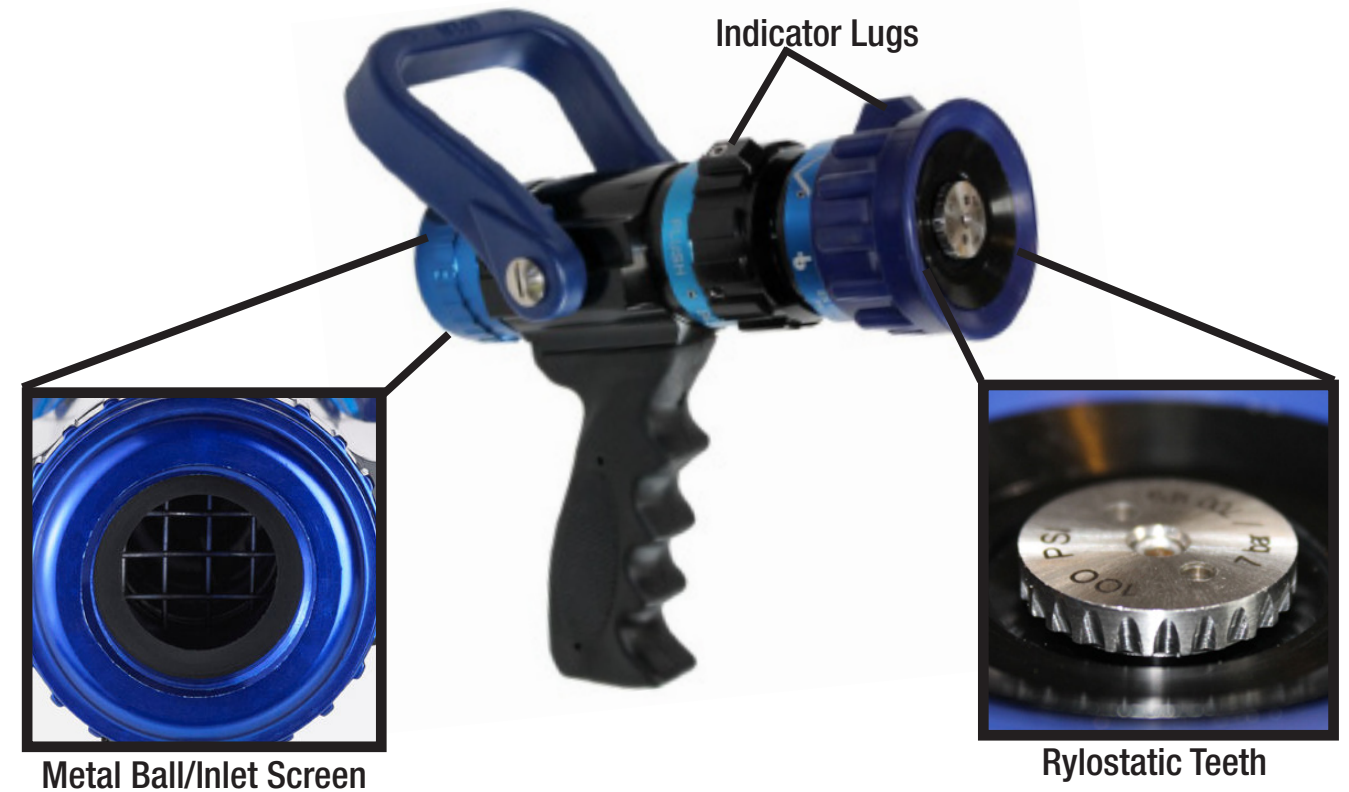


MODEL #	FLOW RATE	OPERATING PRESSURE OPTIONS
VS150-150	150GPM	100psi 75psi 50psi
VS150-175	175GPM	100psi 75psi
VS150-200	200GPM	100psi

MODEL #	FLOW RATE	OPERATING PRESSURE OPTIONS
VS250-150	150GPM	100psi 75psi 50psi
VS250-175	175GPM	100psi 75psi
VS250-200	200GPM	100psi

MODEL #	FLOW RATE	OPERATING PRESSURE OPTIONS
VS300-200	200GPM	100psi 75psi 50psi
VS300-250	250GPM	100psi 75psi 50psi
VS300-300	300GPM	100psi 75psi
VS300-325	325GPM	100psi

VIPER 2.0 - SELECT GALLONAGE NFPA Compliant



FEATURES & SPECIFICATIONS

- NFPA 1964 compliant (EN 15182-4 type 3 certified)
- New 90 degree rotation from 30 degree fog to straight stream (one twist of the hand)
- Raised lug indicators on selector & fog barrels for easy pattern & flow id
- No teeth to break - Rylostatic teeth in nozzle head to break up water but not cause "fingers" in the stream like fixed teeth
- Metal ball with front & rear seals to work under higher pressures (max 580 psi)
- Deeper ribs in selector ring for better grip
- Flush without shutting down
- Constant flow through fog & straight stream
- Swivel inlet 1" & 1.5" NST or NPSH threads (2.5" nst threads only)

MODEL #	SWIVEL	FLOW RATES	OPERATING PRESSURE OPTIONS	WT/LENGTH
BD550	1"	5-10-25-50GPM	100psi 75psi 50psi	3.6lbs / 8.5"
BD1560	1"	15-30-50-60GPM	100psi 75psi	3.6lbs / 8.5"
BD3012	1.5"	30-60-95-125GPM	100psi 75psi 50psi	4.2lbs / 9.88"
BD3015	1.5"	30-60-95-125GPM	100psi 75psi	4.2lbs / 9.88"
BD7515	1.5"	75-100-125-150GPM	100psi 75psi	4.2lbs / 9.88"
BD9520(1.5)	1.5"	95-125-150-200GPM	100psi 75psi	6.8lbs / 11"
BD9520(2.5)	2.5"	95-125-150-200GPM	100psi 75psi	7.8lbs / 12.75"
BD12250(1.5)	1.5"	125-150-200-250GPM	100psi	6.8lbs / 11"
BD12250(2.5)	2.5"	125-150-200-250GPM	100psi	7.8lbs / 12.75"



VIPER 2.0 - TIPS & ULTRA BORE SHUTOFFS

Add a viper 2.0 tip to any VBU shutoff to create a compact "Break-Apart" nozzle
NFPA compliant



Tips

MODEL#	FLOW RATES	INLET (NST)	SUGGESTED SHUTOFF
VS95TIP	Constant - 95 GPM @ 100 psi (Standard)	1.5" SWIVEL	VBU95
VS150TIP	Constant - 200 GPM @ 100 psi (Standard)	1.5" SWIVEL	VBU150
VS300TIP	Constant - 250 GPM @ 50 psi (Standard)	1.5" SWIVEL	VBU250
BD3015TIP	Select - 30-60-95-125-150 GPM @ 100psi	1.5" SWIVEL	VBU95
BD9520TIP	Select - 95-125-150-200 GPM @ 100psi	1.5" SWIVEL	VBU150
BD12250TIP	Select - 125-150-200-250 GPM @ 100psi	1.5" SWIVEL	VBU150



Ultra-duty, Precision Shutoffs

Amazing CAFS shutoff
stainless ball & dual teflon seals
Full-time Swivel with removeable screen

Made from extruded E-lite alloy & hard coated
Quality resin ball & teflon seals
Full-time Swivel with removeable screen



Ultra Bore Shutoffs No Pistol Grip

MODEL#	INLET/OUTLET	WATERWAY SIZE	BORE SIZE	MAX WORKING PRESSURE
VBU25NPG	1"/1"	1"	1"	580psi
VBU95NPG	1.5"/1.5"	1"	1"	580psi
VBU150NPG	1.5"/1.5"	1 3/8"	1 3/8"	580psi
VBU250NPG	2.5"/1.5"	1 3/8"	1 3/8"	580psi
VBU150-IB160NPG	1.5"/1.5"	1 3/8"	7/8"	580psi
VBU150-IB185NPG	1.5"/1.5"	1 3/8"	15/16"	580psi
VBU150-IB210NPG	1.5"/1.5"	1 3/8"	1"	580psi
VBU250-IB210NPG	2.5"/1.5"	1 3/8"	1"	580psi
VBU250-IB265NPG	2.5"/1.5"	1 3/8"	1 1/8"	580psi

Ultra Bore Shutoffs With Pistol Grip

MODEL#	INLET/OUTLET	WATERWAY SIZE	BORE SIZE	MAX WORKING PRESSURE
VBU25	1"/1"	1"	1"	580psi
VBU95	1.5"/1.5"	1"	1"	580psi
VBU150	1.5"/1.5"	1 3/8"	1 3/8"	580psi
VBU250	2.5"/1.5"	1 3/8"	1 3/8"	580psi
VBU150-IB160	1.5"/1.5"	1 3/8"	7/8"	580psi
VBU150-IB185	1.5"/1.5"	1 3/8"	15/16"	580psi
VBU150-IB210	1.5"/1.5"	1 3/8"	1"	580psi
VBU250-IB210	2.5"/1.5"	1 3/8"	1"	580psi
VBU250-IB265	2.5"/1.5"	1 3/8"	1 1/8"	580psi

Inlets/outlets available in NST or NPSH

VIPER - SELECT GALLONAGE

FEATURES AND SPECIFICATIONS:

Nozzles are extruded with E-LITE alloy - Hard-coated for corrosion protection and durability - The spinning teeth offer a wide, complete coverage fog pattern - Pistol grip is standard on all Viper nozzles - Selection ring has 4 flow positions without pattern change - Viper Select Gallonage offers constant gallonage in all positions - FLUSH without shutting down - Low Pressure options of 75 or 50 psi available

CUSTOM OPTIONS:

Metal Handle - Colored Handles and Pistol Grips - Remove the Pistol Grip - Lower operating pressures available 50 psi or 75 psi - 1" and 1.5" available in both NST and NPSH - Tip only available to make "Break-Apart" nozzles - Tip only works great matched with our new integrated smooth bore shutoffs (Pgs. 6 & 14)

MODEL #	SWIVEL	FLOW RATES	OPERATING PRESSURE OPTIONS	Wt/LENGTH
SG540	1"	MOP(5)-10-25-50GPM	100psi 75psi 50psi	3.6lbs / 8.85"
SG1560	1"	15-30-50-60GPM	100psi 75psi	3.6lbs / 8.85"
SG3012	1.5"	30-60-95-125GPM	100psi 75psi 50psi	4.5lbs / 8.85"
SG7515	1.5"	75-100-125-150GPM	100psi 75psi	4.5lbs / 8.85"
SG9520(1.5)	1.5"	95-125-150-200GPM	100psi 75psi	7lbs / 11.2"
SG9520(2.5)	2.5"	95-125-150-200GPM	100psi 75psi	7.5lbs / 12.8"
SG12250(1.5)	1.5"	125-150-200-250GPM	100psi 75psi	7lbs / 11.2"
SG12250(2.5)	2.5"	125-150-200-250GPM	100psi 75psi	7.5lbs / 12.8"



VIPER - INDUSTRIAL NOZZLES

FEATURES AND SPECIFICATIONS:

Simple, durable, and can be used as a break-apart - Large protective rubber bumpers - Tip twists to shut off - Safe and durable (individually tested) - Shutoff handles available in colors to match pre-connect lines: Black, Red, Yellow, Orange, Blue, Green - Metal handles available for added durability

Nozzles

MODEL #	SWIVEL	FLOW RATE	OPERATING PRESSURE	Wt/LENGTH
ST1530-PV	1" NST OR NPSH	30GPM	100psi	3.6lbs / 8.85"
ST2510-PV	1.5" NST OR NPSH	95GPM	100psi	3.6lbs / 8.85"
ST5016-PV	1.5" NST OR NPSH	125GPM	100psi	4.5lbs / 8.85"
ST2510-PV(2.5)	2.5" NST ONLY	95GPM	100psi	4.5lbs / 8.85"
ST5016-PV(2.5)	2.5" NST ONLY	125GPM	100psi	7lbs / 11.2"

Break-Apart Tips Rigid Base Thread: 1"NST or NPSH all other NST ONLY



Tips

MODEL #	NOZZLE TYPE	FLOW RATE	INLET	Wt/LENGTH
VTE1550	Composite	Constant - 30 GPM	1" NST OR NPSH	1lb / 5"
VTE5210	Composite	Constant - 95 GPM	1.5" NST OR NPSH	1lb / 5"
Black Knight	Fiberglass Reinforced Composite	Constant - 95 GPM	1.5" NST OR NPSH	1lb / 5"
ST2510 TIP	Spinning Teeth	Constant - 95 GPM	1.5" NST ONLY	1lb / 5"
ST5016 TIP	Spinning Teeth	Constant - 125 GPM	1.5" NST ONLY	1lb / 5"



PORTABLE FOAM EQUIPMENT

FOAM GUN PROPORTIONER

Bypass Eductors with water bypass & metering dial

MODEL #	FLOW RATE	RIGID THREAD SIZE	WT/LENGTH
BYPP1550-DIAL	30GPM	1" NST	3lbs / 15.5"
BYPP3012-DIAL	60GPM	1.5" NST	3lbs / 15.5"
BYPP7515-DIAL	95GPM	1.5" NST	3lbs / 15.5"
BYPP9520-DIAL	125GPM	1.5" NST	3lbs / 15.5"



Foam Tubes

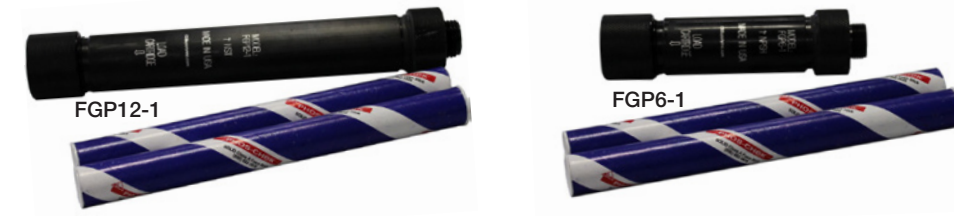
MODEL #	FLOW RATE	THREAD SIZE	EXPANSION RATE	WT/LENGTH
PVB1560	30 GPM	1" swivel NST OR NPSH	8:1 TO 12:1	3lb / 15.5"
PVB3012	60 GPM	1.5" swivel NST OR NPSH	8:1 TO 12:1	3.5lb / 19"
PVB7515	95 GPM	1.5" swivel NST OR NPSH	8:1 TO 12:1	3.5lb / 19"
CEP 1560	CLAMPS ON VIPER NOZZLES: SG1560, SG540	N/A	8:1 TO 12:1	1lb / 12"
CEP 3012	CLAMPS ON VIPER NOZZLES: SG3012, SG7515, SG9520	N/A	8:1 TO 12:1	2lb / 16"
CEP BD3012	CLAMPS ON VIPER NOZZLES: BD3012, BD3015, BD7515, VS95	N/A	8:1 TO 12:1	2lb / 16"



Maintenance-Free Class A Foam

MODEL #	HARD CARTRIDGE STICK AMT. & SIZE	INLET/OUTLET	WT/LENGTH
FGP12-1	2 - ≤12" foam sticks	1" rigid FE x 1" M NST OR NPSH	2.2lb / 15.5"
FGP12-15	2 - ≤12" foam sticks	1.5" rigid FE x 1" M NST OR NPSH	2.2lb / 15.5"
FGP6-1	2 - ≤12" foam sticks	1" rigid FE x 1" M NST OR NPSH	1.6lb / 9.25"
FGP6-15	2 - ≤12" foam sticks	1.5" rigid FE x 1" M NST OR NPSH	1.6lb / 9.25"

For 6" foam stick units, cut 12" foam stick in half.



Foam Tube Refills

MODEL #	HARD CARTRIDGE STICK AMT. & SIZE	WT/LENGTH
FCA-02	2 - 12" foam sticks	1.2lb / 12"
FCA-24	1 Box of 24 - 12" foam sticks	14.4lb / 12"
FCA-240	10 or more Boxes of 24 - 12" foam sticks	14.4lb per box / 12"

Application	Class A Foam	Water
Indirect Attack	✓	
Direct/Parallel Attack	✓✓	✓
Interior Structure Attack	✓✓✓✓	✓
Structure Protection-Indirect Application	✓✓	✓
Structure Protection-Direct Application	✓✓✓	✓
Mop Up	✓✓✓✓	✓
Prescribed Burn Control	✓✓	✓

✓✓✓✓ = Superior Effectiveness ✓✓✓ = Excellent Effectiveness ✓✓ = Good Effectiveness ✓ = Baseline Effectiveness

Questions? www.CSSupplyinc.com/foam-101

PIERCING NOZZLE



PN-100

MODEL #	FEATURES	THREAD SIZE	FLOW RATE	WT/LENGTH
PN-100	<ul style="list-style-type: none"> Stainless Steel Construction Removeable, Replaceable Penetrating Tip Durable Strike Plate 60° Fwd to 10° Rear Spray Pattern for Complete Coverage Recessed Spray Holes for Debris-free Unobstructed Flow 	1.5" swivel NST OR NPSH	100 GPM@100psi 120 GPM@150psi	13lb / 41"
PN-100-HOSE	<ul style="list-style-type: none"> 6' Hose Extension 1.75" Double Jacket w/1.5" Couplings 	1.5" swivel NST only	N/A	3.2lb / 6'
PN-100-TIP	60° Fwd to 10° Rear Spray Pattern for Complete Coverage	N/A	100 GPM@100psi 120 GPM@150psi	2.4lb / 10"
PN-100-EXT	3' stainless steel extension for PN-100	N/A	N/A	10.4lb / 36"
PN-100-COM-BO	PN-100 + PN-100-HOSE + SBV15SS Combo increases maneuverability of the nozzle at a nice price	1.5" swivel NST only	100 GPM@100psi 120 GPM@150psi	17lb / 41"



SMALL NOZZLE TIPS



MADDOG

Madd Dog Foam Nozzle

Wt.: 1lb Length: 4"

MODEL #	FEATURE	COMPATIBLE NOZZLES
MAD-DOG	Low/MEDIUM EXPAN-SION FOAM TUBE ADAPTER	105/15, 110/23, 1560/20, 1590/20, 105, 115, 130, 1560, 15100, & VTE1550

SMALL NOZZLE TIPS

All C&S nozzle tips can be combined with a C&S shutoff valve to make a custom 'Combo' nozzle. C&S Nozzles are constructed of hard anodized aluminum and stainless steel components. Most come with a heavy duty rubber bumper for added protection (exception: bumperless models)

- Flow from 5 GPM to 100 GPM
- Ideal for firefighting and industrial uses
- Adjustable from fog to straight stream to off with twist shutoff

Dual flow nozzles starting from the off position twist to low flow straight stream, to low flow partial-fog, to high flow straight stream to high flow fog.

Dual Range

MODEL #	FLOW RATE	INLET	WT LENGTH
105/15BL (bumperless)	Dual - 5/15 GPM	1" NST OR NPSH	1lb / 4"
105/15BL GHT (bumperless)	Dual - 5/15 GPM	3/4" GHT	1lb / 4"
110/23BL (bumperless)	Dual - 10/23 GPM	1" NST OR NPSH	1lb / 4"
110/23BL GHT (bumperless)	Dual - 10/23 GPM	3/4" GHT	1lb / 4"
105/15	Dual - 5/15 GPM	1" NST OR NPSH	1lb / 4"
105/15 GHT	Dual - 5/15 GPM	3/4" GHT	1lb / 4"
110/23	Dual - 10/23 GPM	1" NST OR NPSH	1lb / 4"
110/23 GHT	Dual - 10/23 GPM	3/4" GHT	1lb / 4"
1560/20	Dual - 20/60 GPM	1.5" NST OR NPSH	1lb / 5"
1590/20	Dual - 20/90 GPM	1.5" NST OR NPSH	1lb / 5"



105/15BL



110/23



1590/20

Constant Flow

MODEL #	FLOW RATE	INLET	WT LENGTH
105BL (bumperless)	5 GPM	1" NST OR NPSH	1lb / 4"
105BL GHT (bumperless)	5 GPM	3/4" GHT	1lb / 4"
115BL (bumperless)	15 GPM	1" NST OR NPSH	1lb / 4"
115BL GHT (bumperless)	15 GPM	3/4" GHT	1lb / 4"
130BL (bumperless)	30 GPM	1" NST OR NPSH	1lb / 4"
130BL GHT (bumperless)	30 GPM	3/4" GHT	1lb / 4"
105	5 GPM	1" NST OR NPSH	1lb / 4"
105 GHT	5 GPM	3/4" GHT	1lb / 4"
115	15 GPM	1" NST OR NPSH	1lb / 4"
115 GHT	15 GPM	3/4" GHT	1lb / 4"
130	30 GPM	1" NST OR NPSH	1lb / 4"
130 GHT	30 GPM	3/4" GHT	1lb / 4"
1560	60 GPM	1.5" NST OR NPSH	1lb / 5"
15100	100 GPM	1.5" NST OR NPSH	1lb / 5"



115BL



130



1560



15100

SMOOTH BORES & STACKED TIPS

Constructed of Anodized Aluminum

1" Smooth Bore (NST or NPSH)

Best with Shutoff VB1560 - Wt.: 0.8lbs Length: 4"

MODEL #	OUTLET	40PSI	50PSI	60PSI	80PSI	100PSI
1"ST BR 3/16"	3/16"	6.5 GPM	7.5 GPM	8 GPM	9.3 GPM	10 GPM
1"ST BR 1/4"	1/4"	11 GPM	13 GPM	14 GPM	16.6 GPM	18 GPM
1"ST BR 5/16"	5/16"	18 GPM	20 GPM	22 GPM	25 GPM	29 GPM
1"ST BR 3/8"	3/8"	27 GPM	31 GPM	32 GPM	37 GPM	43 GPM
1"ST BR 1/2"	1/2"	48 GPM	54 GPM	57 GPM	66 GPM	75 GPM
1"ST BR 5/8"	5/8"	73 GPM	82 GPM	89 GPM	103 GPM	116 GPM
1"ST BR 3/4"	3/4"	107 GPM	119 GPM	129 GPM	149 GPM	168 GPM
1"ST BR 15/16"	15/16"	166 GPM	186 GPM	202 GPM	233 GPM	262 GPM



1.5" Smooth Bore (NST or NPSH)

Best with Shutoff VB9520 - Wt.: 0.8lbs Length: 5"

MODEL #	OUTLET	40PSI	50PSI	60PSI	80PSI	100PSI
ST BR 3/8"	3/8"	27 GPM	31 GPM	32 GPM	37 GPM	43 GPM
ST BR 1/2"	1/2"	48 GPM	54 GPM	57 GPM	66 GPM	75 GPM
ST BR 5/8"	5/8"	73 GPM	82 GPM	89 GPM	103 GPM	116 GPM
ST BR 3/4"	3/4"	107 GPM	119 GPM	129 GPM	149 GPM	168 GPM
ST BR 7/8"	7/8"	143 GPM	160 GPM	176 GPM	203 GPM	227 GPM
ST BR 15/16"	15/16"	166 GPM	186 GPM	202 GPM	233 GPM	262 GPM
ST BR 1"	1"	189 GPM	211 GPM	230 GPM	265 GPM	298 GPM
ST BR 1-1/16"	1 1/16"	212 GPM	237 GPM	259 GPM	299 GPM	335 GPM
ST BR 1-1/8"	1 1/8"	239 GPM	267 GPM	291 GPM	336 GPM	337 GPM
ST BR 1-3/16"	1 3/16"	265 GPM	296 GPM	325 GPM	375 GPM	419 GPM
ST BR 1-1/4"	1 1/4"	295 GPM	329 GPM	359 GPM	415 GPM	465 GPM

1.5" Stacked Tip (NST or NPSH)

STT-2 - Wt.: 1LB LENGTH: 8"	15/16" & 1/2"	166/48 GPM	186/54 GPM	202/57 GPM	233/66 GPM	262/75 GPM
STT-1 - Wt.: 2LBS LENGTH: 12"	1-1/4", 1-1/8", & 1"	295/239/189 GPM	329/267/211 GPM	359/291/230 GPM	415/336/265 GPM	465/337/298 GPM



ST BR 1-1/16"



STT-2



STT-1

BALL SHUTOFFS

FEATURES

Extruded E-Lite alloy, Hard-coated aluminum, Lightweight and durable, Quality polymer balls & seats, Full-time swivel, Comfortable pistol grip, Cast aluminum shutoff handle

MODEL #	INLET/OUTLET	WATERWAY SIZE	HANDLE MATERIAL	GRIP	MAX WORKING PRESSURE
VB1560-M	1" Fe.x 1" M. (NST or NPSH)	1"	Metal	Pistol	300psi
VB1560	1" Fe.x 1" M. (NST or NPSH)	1"	Composite	Pistol	300psi
VB3012-M	1.5" Fe.x 1.5" M. (NST or NPSH)	1"	Metal	Pistol	300psi
VB3012	1.5" Fe.x 1.5" M. (NST or NPSH)	1"	Composite	Pistol	300psi
VB9520 (1.5)-M	1.5" Fe.x 1.5" M. (NST or NPSH)	1 3/8"	Metal	Pistol	300psi
VB9520 (1.5)	1.5" Fe.x 1.5" M. (NST or NPSH)	1 3/8"	Composite	Pistol	300psi
VB9520 (2.5)-M	2.5" Fe.x 1.5" M. (NST or NPSH)	1 3/8"	Metal	Pistol	300psi
VB9520 (2.5)	2.5" Fe.x 1.5" M. (NST or NPSH)	1 3/8"	Composite	Pistol	300psi
VBPP9520 (2.5)	2.5" Fe.x 1.5" M. (NST only)	1 3/8"	Composite	Axial	300psi
SBV10SS-M	1" Fe. x 1" M. (NST or NPSH)	1"	Metal	None	300psi
SBV10SS	1" Fe. x 1" M. (NST or NPSH)	1"	Composite	None	300psi
SBV15SS-M	1.5" Fe. x 1.5" M. (NST or NPSH)	1"	Metal	None	300psi
SBV15SS	1.5" Fe. x 1.5" M. (NST or NPSH)	1"	Composite	None	300psi
VB9520NPG(1.5)-M	1.5" Fe. x 1.5" M. (NST or NPSH)	1 3/8"	Metal	None	300psi
VB9520NPG(1.5)	1.5" Fe. x 1.5" M. (NST or NPSH)	1 3/8"	Composite	None	300psi
VB9520NPG(2.5)-M	2.5" Fe. NST x 1.5" M. (NST or NPSH)	1 3/8"	Metal	None	300psi
VB9520NPG(2.5)	2.5" Fe. NST x 1.5" M. (NST or NPSH)	1 3/8"	Composite	None	300psi



CAFS & SMOOTH BORE NOZZLES



MODEL #	SWIVEL INLET	COMPONENTS	TIP OPTIONS
CAFS-VIP-10	1" Fe. (NST or NPSH)	1 - 1" ST BR 15/16 (standard option) (pg 12) 1 - VB1560 (pg 13)	1"ST BR 3/16" 1"ST BR 1/4" 1"ST BR 3/8" 1"ST BR 1/2" 1"ST BR 5/8" 1"ST BR 3/4" 1"ST BR 15/16"
CAFS-VIP-15	1.5" Fe. (NST or NPSH)	1 - ST BR 1-1/8" (standard option) (pg 12) 1 - VB9520(1.5) (pg 13)	ST BR 3/4" ST BR 15/16" ST BR 1" ST BR 1-1/8" ST BR 1-3/16" ST BR 1-1/4"
STBR-VIP-25	2.5" Fe. (NST only)	1 - ST BR 1" (standard option) (pg 12) 1 - VB9520(2.5) (pg 13)	ST BR 3/4" ST BR 15/16" ST BR 1" ST BR 1-1/8" ST BR 1-3/16" ST BR 1-1/4"
VBPP-STT1	2.5" Fe. (NST only)	1 - STT1 (standard option) (pg 12) (note - Outlet sizes: 1 1/4" 1 1/8" and 1" w/1-1/2" NST base) 1 - VBPP9520(2.5) (pg 13)	N/A

INTEGRATED SMOOTH BORE NOZZLES

FEATURES

Made of extruded E-Lite alloy & hard-coated, Lightweight and durable, Quality polymer shutoffs, balls & seats

MODEL#	INLET/OUTLET	WATERWAY SIZE	BORE SIZE	MAX WORKING PRESSURE
VBU9520-ISB1 (1.5)	1.5" Fe.x 1.5" M. (NST OR NPSH)	1 3/8"	1"	300psi
VBU9520-ISB15/16 (1.5)	1.5" Fe.x 1.5" M. (NST OR NPSH)	1 3/8"	15/16"	300psi
VBU9520-ISB7/8 (1.5)	1.5" Fe.x 1.5" M. (NST OR NPSH)	1 3/8"	7/8"	300psi



VBU9520-ISB

COMBO "BREAK-APART" NOZZLES

Hard Foam Cartridge Proportioners

MODEL#	INLET	COMPONENTS	TIP OPTIONS
SB-FGP6-1	1"	1 - VB1560: 1" Shutoff w/Pistol Grip (pg 13) 1 - FPG6-1: 1" Foam Gun Proportioner (pg 9) 1 - 110/23: 1" Nozzle Tip 10/23 GPM (standard option) (pg 11) 1 - FCA-02: 2 x 12" Class A Foam Cartridges (pg 9) (cut foam cartridges in half)	110/23 105/15 115 130 (Add MADDOG for better foam)
SB-FGP6-15	1.5"	1 - VB3012: 1.5" Shutoff w/Pistol Grip (pg 13) 1 - FPG6-15: 1.5" Foam Gun Proportioner (pg 9) 1 - 1560/20: 1.5" Nozzle Tip 20/60 GPM (standard option) (pg 11) 1 - FCA-02: 2 x 12" Class A Foam Cartridges (pg 9) (cut foam cartridges in half)	1560/20 1590/20 1560 15100 (Add MADDOG for better foam)
SB-FGP12-1	1"	1 - VB1560: 1" Shutoff w/Pistol Grip (pg 13) 1 - FPG12-1: 1" Foam Gun Proportioner (pg 9) 1 - 110/23 1" Nozzle Tip 10/23 GPM (standard option) (pg 11) 1 - FCA-02: 2 x 12" Class A Foam Cartridges (pg 9)	110/23 105/15 115 130 (Add MADDOG for better foam)
SB-FPG12-15	1.5"	1 - VB3012: 1.5" Shutoff w/Pistol Grip (pg 13) 1 - FPG12-15: 1.5" Foam Gun Proportioner (pg 9) 1 - 1560/20: 1.5" Nozzle Tip 20/60 GPM (standard option) (pg 11) 1 - FCA-02: 2 x 12" Class A Foam Cartridges (pg 9)	1560/20 1590/20 1560 15100 (Add MADDOG for better foam)



SB-FGP6-1



SB-FGP12-1

COMBO "BREAK-APART" NOZZLES

C&S Economy "Break-Apart" Nozzles

MODEL#	INLET NST OR NPSH	COMPONENTS	MATERIAL
SB-VIP-10	1"	1 - 110/23BL: 1" Bumperless Nozzle Tip 10/23 GPM (pg 11) 1 - VB1560: 1" Shutoff w/Pistol Grip (pg 13) Wt: 2.5 lbs Length: 7.5"	Hard-coated aluminum
SB-VIP-15	1.5"	1 - 1560/20: 1.5" Nozzle Tip 20/60 GPM (pg 11) Optional Tips: 1590/20 (pg 11), 1560 (pg 11) & 15100 (pg 11) 1 - VB3012: 1.5" Ball Shutoff w/Pistol Grip (pg 13) Wt: 3.4 lbs Length: 7.5"	Hard-coated aluminum
SB-VIP-10C	1"	1 - VTE1550: 1.5" Constant flow 30 GPM composite nozzle tip (pg 7) 1 - VB1560: 1" Shutoff w/Pistol Grip (pg 13) Wt: 2.0 lbs Length: 7.5"	Valve -Hard-coated aluminum Nozzle-Composite with brass internals
SB-VIP-15C	1.5"	1-BLACK KNIGHT: Constant flow 95 GPM fiberglass reinforced composite nozzle tip (pg 7) 1 - VB3012: 1.5" Ball Shutoff w/Pistol Grip (pg 13) Wt: 3.4 lbs Length: 7.5"	Valve -Hard-coated aluminum Nozzle-Composite with brass internals



SB-VIP-10



SB-VIP-15

FORESTRY PRODUCTS

WILDLAND EQUIPMENT

Twin Tip and Accessories

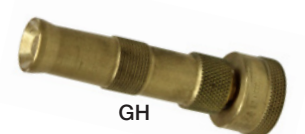
MODEL#	FEATURES
TT300	• Inlet - 1" Fe. Rigid (nst or npsH) • Outlets - 3/4" NH (garden hose threads) • Valve positions: Lower Outlet, Upper Outlet & Off
TT300 FOG TIP - 3 GPM	3/4" GHT Standard TT300 fog tip
TT300 FOG TIP - 6 GPM	3/4" GHT Optional TT300 fog tip
TT300 FOG TIP - 15 GPM	3/4" GHT Optional TT300 fog tip
TT300 STRAIGHT TIP 3/16"	3/4" GHT Standard TT300 straight bore tip
TT300 STRAIGHT TIP 1/4"	3/4" GHT Optional TT300 straight bore tip
TT300 STRAIGHT TIP 3/8"	3/4" GHT Optional TT300 straight bore tip
APP-2	3/4" GHT Two-piece Applicator Wand with spray tip
GH	3/4" GHT Adjustable Mop Nozzle



TT300



APP-2



GH

WILDLAND EQUIPMENT

T's

MODEL#	FE. x M. x M. SIZES	THREAD TYPE	CAP & CHAIN	VALVE	CONSTRUCTION
TV1510	1.5" x 1.5" x 1"	Any Combo NST or NPSH	no	in-line	Cast Aluminum
T-1-75	1" x 1" x 3/4"	NPSH X NPSH X GHT	yes	no	Cast Aluminum
T-1	1" x 1" x 1"	NPSH X NPSH X NPSH	yes	no	Cast Aluminum
T-1.5 NH X NP	1.5" x 1.5" x 1"	NST X NST X NPSH	yes	no	Cast Aluminum
T-1.5 NH X NH	1.5" x 1.5" x 1"	NST X NST X NST	yes	no	Cast Aluminum



Spanners

MODEL#	FEATURES
SW1	SINGLE-SIDED SPANNER WRENCH
SW2	DOUBLE-SIDED SPANNER WRENCH

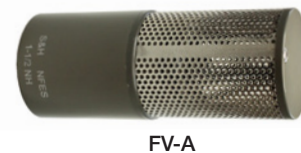


Flat Stream Nozzle

MODEL#	FEATURES
FLT130	Compact Smooth bore nozzle with flat stream pan 30GPM@100 psi fully open in smooth bore position 20GPM@100 psi in flat stream position 3/4" garden hose insert in a 1" Fe. NPSH Rigid Base Wt: 0.5 lbs. Length: 5"

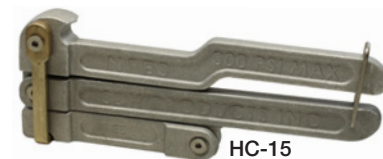
Foot Valve

MODEL#	FEATURES
FV-A 1-1/2" NST	ALUMINUM FOOT VALVE STRAINER



Hose Clamps

MODEL#	HOSE SIZE	FEATURES
HC1510	up to 1-3/4" single jacket	Rigid design, Knuckle guard, Curved clamping area for ease & security, Built in spanner for ≤ 2.5" fittings
HC-15	up to 1-3/4" single jacket	Basic wildland hose clamp



HOSE COILER

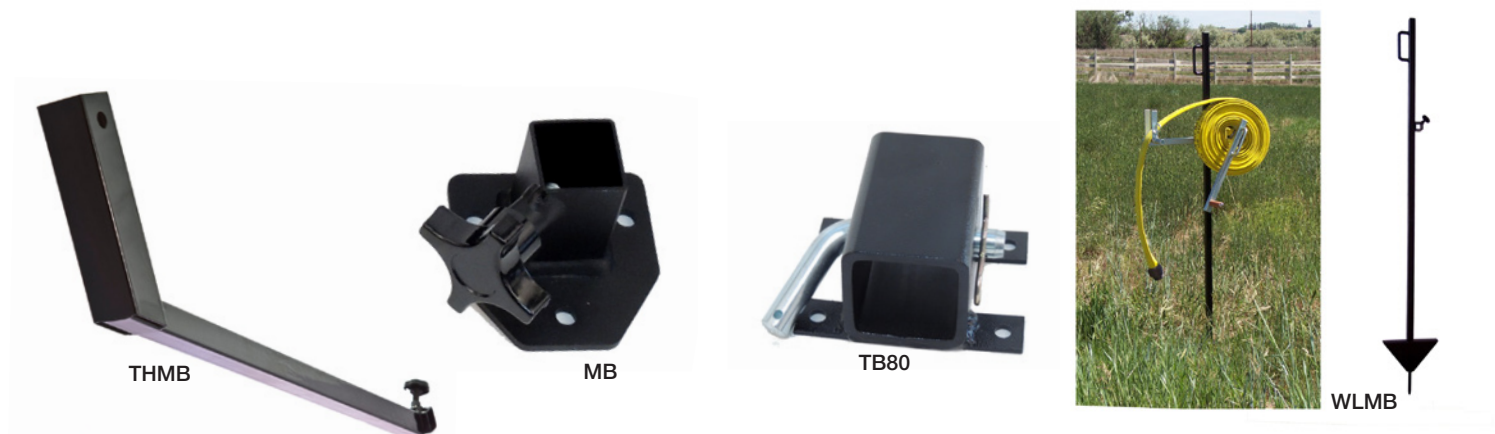
Hose Coilers

MODEL#	HOSE SIZE	MOUNT INCLUDED	FEATURES
MC40	1" to 1-1/2"	MB	Folds up small, Capable of Dutch Rolls, Optional mounts: THMB & WLMB
MC65	1" to 3"	MB	Folds up small, Capable of Dutch Rolls, Optional mounts: THMB & WLMB
MC80	4" to 7"	TB80	Attaches to Hitch Receiver or Tailboard, Constructed of Heavy Gage Steel, Durable



Hose Coiler Mounting Brackets

MODEL#	FOR HOSE COILER MODEL	FEATURES
MB	MC40 & MC65	Square Mounting Bracket - can be bolted to any vertical surface
THMB	MC40 & MC65	Trailer Hitch Mounting Bracket - inserts into any clas 4 (2") hitch receiver tube
WLMB	MC40 & MC65	WildLand Mounting Bracket - great for remote use, simply drive mount into ground
TB80	MC40, MC65 & MC 80	Extra Mount, bolts to tailboard so hose can be directly loaded to hose bed, TB80 can be mounted to and sturdy horizontal surface (not intended to tow) must be used with THMB

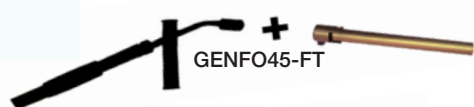


GENFO45 WATER BACKPACK

MODEL#	FEATURES
GENFO45	The C&S original Water backpack! Padded shoulder straps and waist belt, 5 gallon capacity (only 4 minutes to completely discharge), Industrial quick connects for quick fill or stowing the pump, Double action chrome plated brass hand pump, Effective stream distance of up to 24 feet (max 30 feet), Large 4" polymer cap with removable filter for easy refill, Durable polymer and textile collapsible reservoir, Thermo-welded seams for strength and durability, Reinforced at the top and bottom for extra durability, Flexible horizontal baffle inside to reduce shifting water weight, Nozzle tip adjusts from straight stream to spray pattern, Easy 'No Tool' maintenance, Dry weight - 5 lbs.
GENFO45-FT	Foam attachment option is quick to install and aspirates the foam solution making finished foam Wt: 1 lb.
GENFO45-QF	Quickly Fill the GENFO45 of GENFO45-PRO without wasted water. Attach to a T-Valve, 1" shutoff, or 3/4" GHT shutoff to quickly and efficiently fill your GENFO45 water backpack. Assembly Consists of: -1" Fe. NST or NPSH to 3/4" GHT adapter -3/4" GHT to 3/8" Quick connect adapter



GENFO45



GENFO45-FT



GENFO45-QF

DRIP TORCH



DT125

MODEL#	FEATURES
DT125	Conforms to Forest Service Specifications (USDA FS 5100-614) Meets DOT regulations for transport of flammable fuel UN # 1B1-150 Red body complies with new OSHA regulations 29 CFR 1910.114

1.25 US Gallon capacity, heavy duty, light weight aluminum body, reversible burner for easy storage and transport, check valve to protect against flashback, breather valve, large diameter mouth for ease in filling, double bottom for extra durability
Height 14" closed/25.5" assembled, Dia. 6", Wt. 4.6 lbs empty/16 lbs full

Accessories & Replacement Parts

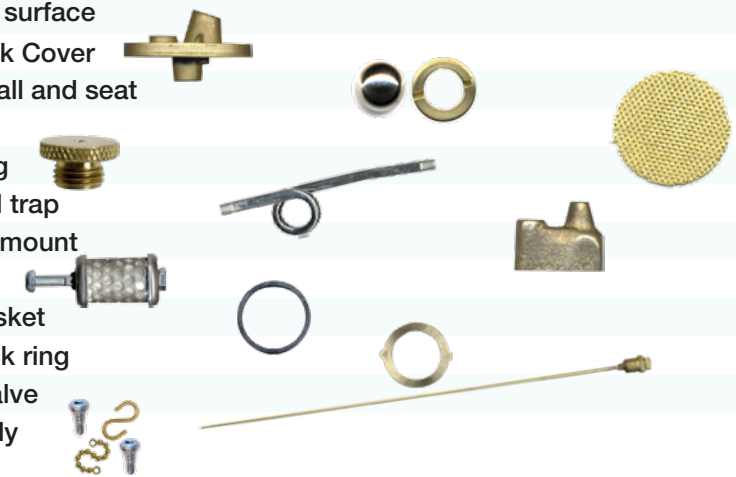
MODEL#	FEATURES
DT125-MB	Steel Mount to Secure DT125 for transport, designed so DT125 lifts out, bolt holes in bottom allow attachment to tailboard, skid unit, or other sturdy horizontal surface
DT125-QFMB	Mount designed to pull DT125 straight out, secures DT125 for transport, 3 bolt/screw holes allow mount to attach in a compartment, skid unit or other sturdy vertical surface
DRT03	Drip Torch Tank Cover
DRT0506	Check valve ball and seat
DRT07	Outlet screen
DRT08	Discharge plug
DRT11	Spout and fuel trap
DRT14	Nozzle/igniter mount
DRT15	Igniter
DRT22	Tank collar gasket
DRT23	Tank cover lock ring
DRT35	Air breather valve
DRT83	Chain assembly



DT125-MB



DT125-QFMB



HIGH VIZ®

All forestry products meet or exceed USDA FS 5100 Series Specification



High Viz® stands out where others blend in!

High Viz® Wye Valves

MODEL#	INLET	OUTLET	COATING	THREAD	WEIGHT
WV1010-HIGH-VIZ	1" Fe. Swivel	(2) 1" M.	Powder-coated		3 lbs
WV1510-HIGH-VIZ	1.5" Fe. Swivel	(2) 1" M.	High Visibility yellow with Red Oralite®	Any Combo NST OR NPSH	4 lbs
WV15-HIGH-VIZ	1.5" Fe. Swivel	(2) 1.5" M.	reflective decals		4 lbs



WV1510-HIGH-VIZ

High Viz® T

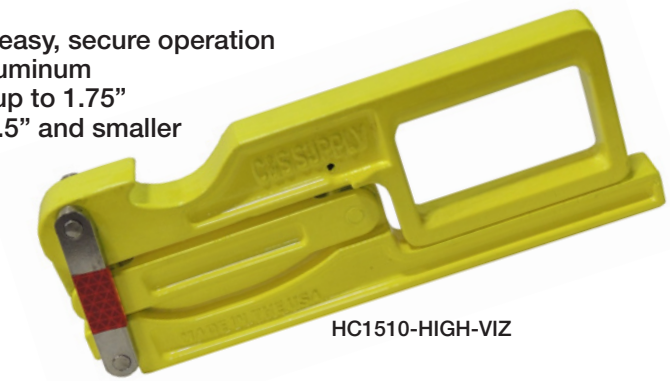


TV1510 HIGH-VIZ

MODEL#	THREADS FE. x M. x M.	CAP & CHAIN	VALVE	CONSTRUCTION
TV1510-NH NH HIGH-VIZ	1.5"NH x 1.5"NH x 1"NH	no	in-line	Cast Aluminum Powder-coated
TV1510-NH NP HIGH-VIZ	1.5"NH x 1.5"NH x 1"NP	no	in-line	High Visibility yellow with Red Oralite®
TV1510-NP NP HIGH-VIZ	1.5"NP x 1.5"NP x 1"NP	no	in-line	reflective decals

High Viz® HOSE CLAMP

MODEL#	FEATURES
HC1510-HIGH-VIZ	Powder coated High Visibility Yellow with Red ORALITE® Reflective Decals • More rigid design with knuckle guard • Curved clamping area and clasp design for easy, secure operation • The wildland hose clamp is made of cast aluminum • Designed for use on single jacket fire hose up to 1.75" • It has a built-in spanner for use on fittings 2.5" and smaller



HC1510-HIGH-VIZ

WYE VALVES

All forestry products meet or exceed USDA FS 5100 Series Specification

Wye Valves

Smooth Waterway = Less Friction

MODEL#	INLET	OUTLET	SEATS	THREAD	MATERIAL	WEIGHT
WV1010	1" Fe. Swivel	(2) 1" M.	Front & Rear	Any Combo NST OR NPSH	Aluminum	3 lbs
WV1510	1.5" Fe. Swivel	(2) 1" M.	Front & Rear	Any Combo NST OR NPSH	Aluminum	4 lbs
WV15	1.5" Fe. Swivel	(2) 1.5" M.	Front & Rear	Any Combo NST OR NPSH	Aluminum	4 lbs
WV2510	2.5" Fe. Swivel	(2) 1" M.	Front & Rear	2.5" Fe. NST only / 1" M. NST OR NPSH	Aluminum	5 lbs
WV2515	2.5" Fe. Swivel	(2) 1.5" M.	Front & Rear	2.5" Fe. NST only / 1.5" M. NST OR NPSH	Aluminum	5 lbs
WV2515-B	2.5" Fe. Swivel	(2) 1.5" M.	Front only	NST only	Brass	7 lbs
WV2525	2.5" Fe. Swivel	(2) 2.5" M.	Front only	NST only	Aluminum	9 lbs



WV1010



WV2510



WV2525

HYDRANT ACCESSORIES

Hydrant Gate Valve

MODEL#	INLET	OUTLET	MATERIAL	WEIGHT	FEATURES
HGV25	2.5" Fe. Swivel	2.5" M. NST	Aluminum	4 lbs	<ul style="list-style-type: none"> Designed with stainless steel non-rising internal stems The units take a minimum of 10 turns to open and close (HGV25) The aluminum body, internal gate and the inlet/outlet fittings are hard anodized for maximum protection against corrosion
HGV25-B	2.5" Fe. Swivel	2.5" M. NST	Brass	9 lbs	



HGV25



HGV25-B



HW733

Hydrant Wrench

MODEL#	WEIGHT	FEATURES
HW733	4 LBS	<ul style="list-style-type: none"> Fits hydrant stems BOTH 1" (square and pentagon) and 1.5" (pentagon) Will work on worn stems No more adjusting, just put the open end over the hydrant stem and pull the handle, the harder you pull, the tighter the grip To release, just relax and lift it off the stem Will actually stay on the stem and not in the mud while you work! The spanner end of the wrench is designed for use on 2 1/2" and larger fittings

BRASS BALL VALVES/STRAINERS

Brass Full Port Valves

MODEL#	INLET/OUTLET	WEIGHT
BFPV38	3/8" Fe. NPT x 3/8" Fe. NPT	0.3 lbs
BFPV50	1/2" Fe. NPT x 1/2" Fe. NPT	0.5 lbs
BFPV75	3/4" Fe. NPT x 3/4" Fe. NPT	0.7 lbs
BFPV100	1" Fe. NPT x 1" Fe. NPT	1.1 lbs
BFPV125	1 1/4" Fe. NPT x 1 1/4" Fe. NPT	1.6 lbs
BFPV150	1 1/2" Fe. NPT x 1 1/2" Fe. NPT	2.4 lbs
BFPV200	2" Fe. NPT x 2" Fe. NPT	3.5 lbs
BFPV300	3" Fe. NPT x 3" Fe. NPT	10.4 lbs
BFPV400	4" Fe. NPT x 4" Fe. NPT	17.5 lbs



BFPV100



BFPV150



BFPV300

Brass Foot Valve Strainers

MODEL#	INLET	CONSTRUCTION	ALL STAINLESS AVAILABLE
FV-B 1/2"	1/2" Fe. NPT		no
FV-B 3/4"	3/4" Fe. NPT	Cast brass valve body;	no
FV-B 1"	1" Fe. NPT	Corrosion resistant,	Yes order FV-SS 1"
FV-B 1 1/4"	1 1/4" Fe. NPT	Stainless steel	Yes order FV-SS 1"
FV-B 1 1/2"	1 1/2" Fe. NPT	screen, Spring	Yes order FV-SS 1"
FV-B 2"	2" Fe. NPT	and lock nut	no
FV-B 3"	3" Fe. NPT		no
FV-B 4"	4" Fe. NPT		no



FV-B



FV-SS

ADAPTERS, REDUCERS & CAPS

Adapters/Reducers

MODEL#	INLET/OUTLET
AD75GHT1NH	3/4" Fe. GHT X 1" M. NST
AD75GHT1NP	3/4" Fe. GHT X 1" M. GHT
AD1NH75GHT	1" Fe. NST x 3/4" M. GHT
AD1NP75GHT	1" Fe. NPSH x 3/4" M. GHT
AD1NH1NP	1" Fe. NST x 1" M. NPSH
AD1NP1NH	1" Fe. NPSH x 1" M. NST
AD1NH1.5NH	1" Fe. NST x 1.5" M. NST
AD1NP1.5NH	1" Fe. NPSH x 1.5" M. NST
AD1.5NH1NH	1.5" Fe. NST x 1" M. NST
AD1.5NH1NP	1.5" Fe. NST x 1" M. NPSH
AD1.5NH75GHT	1.5" Fe. NST x 3/4" M. GHT
AD1.5NP75GHT	1.5" Fe. NPSH x 3/4" GHT
AD2.5NH1.5NH	2.5" Fe. NST x 1.5" M. NST
ADBIM15M	BS-336 65MM - BI M. x 1.5" M. NST
ADBIM25M	BS-336 65MM - BI M. x 2.5" M. NST
ADMM1.5NH1.5NH	1.5" M. NST x 1.5" M. NST
ADMM2.5NH2.5NH	2.5" M. NST x 2.5" M. NST
ADS1.5M1.5NH	1.5" STORZ x 1 1/2" RIGID M. NST
ADS5M2.5NH	5" STORZ x 2.5" RIGID M. NST
ADFF1.5NH1.5NH	1.5" Fe. NST X 1.5" Fe. NST
ADFF2.5NH2.5NH	2.5" Fe. NST x 2.5" Fe. NST



AD1NH1NP



AD2.5NH1.5NH



ADBIM25M



CAP & CHAIN-6

Caps

MODEL#	SIZE/THREAD
CAP & CHAIN-1	1" Fe. NST or NPSH
CAP & CHAIN-1.5	1.5" Fe. NST or NPSH
CAP & CHAIN-2	2" Fe. NST or NPSH
CAP & CHAIN-2.5	2.5" Fe. NST or NPSH
CAP & CHAIN-4	4" Fe. NST
CAP & CHAIN-6	6" Fe. NST

C&S REPAIR PARTS

Repair service & repair kits - www.cssupplyinc.com/videos

C&S Repair Service:

C&S Supply services all of the products we sell. Our hourly labor charge is nominal and it includes disassembling and diagnosing the problem, clean-ing the nozzle, repairs as necessary, and reassembly. Every Nozzle is flow tested at the appropriate pressure, then each nozzle/valve pressure tested at 250 psi before it is returned. C&S Supply is the only authorized U.S. re-pair location of Viper nozzles. C&S Supply only warranties repairs made by C&S Supply.

HGV25 Parts

MODEL#	DESCRIPTION
Z-1600	Valve Body for HGV25
Z-1601	Gate for HGV25
Z-1602	Gate Guide for HGV25
Z-1603	2.5" Swivel for HGV25
Z-1604	2.5" Discharge Coupling for HGV25
Z-1609	"L" shaped handle for HGV25



WYE Valve Parts

MODEL#	DESCRIPTION
WYE-RK2515	Parts Commonly used in the repair of models WV2515, WV2510, WV15, WV1510, WV1010. balls, seats, seals, orings, handles, roll pins, set screws, bearings and Gaskets
Z-1701_10	Valve Body for WV1010
Z-1701_15	Valve Body for WV15 or WV1510
Z-1702	Valve Body for WV2515 or WV2510

WYE HANDLE
For models WV15, WV1510, WV2515, WV2525 (with roll pin)
RIGHT and LEFT sides are the same



Small Constant Flow & Dual Range Nozzle tip Parts:

MODEL#	DESCRIPTION
1TIP-RK	Most common parts for repairing 105/15, 115, 110/23, 130
15TIP-RK60	Most common parts for repairing 1560, 1560/20
15TIP-RK100	Most common parts for repairing 15100, 1590/20

VIPER REPAIR PARTS

Viper Repair Nozzle Kits:

MODEL#	DESCRIPTION	PARTS INCLUDED
VNRK-1560	Repair Kit for model SG1560 & SG540	
VNRK-3012	Repair Kit for models SG3012 & SG7515	
VNRK-9520	Repair Kit for models SG9520 & SG12250	
VNRK-BD1560	Repair Kit for models BD1560 & BD550	
VNRK-BD3012	Repair Kit for models BD3012, BD7515 & BD3015	
VNRK-1550	Repair Kit for models CG1550 & FT1550	
VNRK-2510	Repair Kit for models CG2510, CG5016, FT2510 & FT5016	
VNRK-8020	Repair Kit for models CG8020, FT8020, & FT12250	
VNRK-IND	Repair Kit for models ST2510-PV & ST5016-PV	
VNRK-IND2.5	Repair Kit for models ST2510-PV2.5 & ST5016-PV2.5	

Kits include all internal seals, shutoff ball, rubber bumper, pistol grip, shutoff handle, shutoff handle hardware, locator pin, swivel bearings, set pins, spinning teeth, and o-rings needed to repair a Viper nozzle.

VIPER REPAIR PARTS

Viper Valve Repair Kits:

MODEL#	DESCRIPTION	PARTS INCLUDED
VVRK-3012	Repair Kit for Small VIPER shutoff Valves. Models ending in 1550, 1560, 2510, 3012, 5016, 7515 & 752	Kits include: shutoff ball, seal, shutoff handle, shutoff handle hardware, swivel ball bearings, o-rings, and set pins.
VVRK-9520	Repair Kit for Large VIPER shutoff Valves. Models ending in 8020,9520, & 12250	

Viper Handle Hardware:

MODEL#	DESCRIPTION	PARTS INCLUDED
V-HH5-3012	Handle Hardware for Small VIPER shutoff Valves. Models ending in 1550, 1560, 2510, 3012, 5016, 7515 & 752	Kits include: ball locator, ball actuator, pan head cover and two O-rings.
V-HH5-9520	Handle Hardware for Large VIPER shutoff Valves. Models ending in 8020, 9520 & 12250	

Viper Pistol Grip:

MODEL#	DESCRIPTION
V-PG15V	Replacement Pistol Grip for ALL VIPER shutoffs



Ball & Seat Combos

MODEL#	DESCRIPTION
VBSC-3012	Ball & Seat for Small VIPER shutoff Valves. Models ending in 1550, 1560, 2510, 3012, 5016, 7515 & 752
VBSC-9520	Ball & Seat for Large VIPER shutoff Valves. Models ending in 8020, 9520 & 12250



Viper Handles:

MODEL#	DESCRIPTION	COLORS
V-HANDLE-3012	Replacement handle and attaching hardware for Small VIPER shutoff. Models ending in 1550, 1560, 2510, 3012, 5016, 7515 & 752 NOTE: The above handle is now a kit. It was developed due to a handle design improvement in 2016	Available in an assortment of colors: Red, Orange, Yellow, Green, Blue, and Black
V-HANDLE-9520	Replacement handle only for Large VIPER shutoff. Models ending in 8020, 9520 & 12250 NOTE: The above handle is now a kit. It was developed due to a handle design improvement in 2016	



Viper Metal Handles:

MODEL#	DESCRIPTION
V-HANDLE-M-3012	Compact & durable replacement handle only for Small VIPER shutoff. Models ending in 1550, 1560, 2510, 3012, 5016, 7515 & 752
V-HANDLE-M-9520	Compact & durable replacement handle only for Large VIPER shutoff. Models ending in 8020, 9520 & 12250



FLOW DATA

Select Gallonage

MODEL#	PSI	GPM	STREAM	EFFECTIVE REACH
SG1560	100	15	SS	62
		30	SS	85
		50	SS	98
		60	SS	108
SG3012	100	30	SS	85
		60	SS	112
		95	SS	131
		125	SS	141
SG7515	100	75	SS	118
		100	SS	138
		125	SS	144
		150	SS	148
SG9520	100	95	SS	128
		125	SS	141
		150	SS	148
		200	SS	154
SG12250	100	125	SS	131
		150	SS	144
		200	SS	151
		250	SS	157

OPERATING INSTRUCTIONS

EDUCTOR OPERATING INSTRUCTIONS FOR A SUCCESSFUL FOAM OPERATION

1. Operating pressure: 200 psi inlet pressure suggested for best operation. We have provided basic calculations online . (average pressure loss through the eductor 30-40%)
2. Bypass Switch arrow pointing toward the FOAM to educt foam concentrate. To flush the system or break the venturi turn the bypass to the WATER position. (Note: the bypass only moves about 3/4")
3. Hose length after the eductor:
 - 1" hose: no more than 150' past the eductor (30GPM eductor only)
 - 1-1/2" hose: no more than 150' past the eductor (See example online)
 - 1-3/4" hose: no more than 200' past the eductor
4. Nozzle must flow at least the rated flow of the eductor. If the nozzle flows less than the eductor rating, venturi will not be achieved and no foam will be created. If you are using a selectable nozzle, move the flow to the next higher setting if no foam is generated.
5. Dial percentage that is desired should be pointing at the indicator arrow or at the pickup tube coupling depending on the age of the eductor.

Viper Foam Equipment Foam Nozzles

MODEL#	PSI	GPM	EXPANSION RATE	EFFECTIVE REACH
PVB1560	75	30	10:1	30
	100	35	10:1	36
PVB3012	75	60	12:1	39
	100	69	12:1	46
PVB7515	75	95	9:1	46
	100	110	9:1	56

Viper Foam Equipment Foam Eductors

MODEL#	PSI	GPM	PRESSURE LOSS	
			FOAM	BY-PASS
BYPP1560	100	18	39%	7%
	150	23	39%	7%
BYPP3012	100	46	33%	14%
	150	56	33%	14%
BYPP7515	100	92	30%	15%
	150	113	30%	15%
BYPP9520	100	110	30%	15%
	150	130	30%	15%

WATER BYPASS OPERATION:

Arrow pointing to FOAM, the water is forced through the center creating the venturi and makes foam.



Arrow pointing to WATER, the water is allowed through the bypass holes breaking the venturi and stopping foam for flush or a higher desired flow.



CROSS REFERENCE CHART VIPER MODELS

C & S PRODUCTS	AKRON	ELKHART	TFT	PROTEK	POK	CRESTAR
Select Gallonage Nozzles						
SG1560	1702	PSFS-HPG	DQS40P*	360	2311*	SF 40*
TIP	1703	TPSFS-HP	DQ40*	N/A	13133	N/A
SG3012	1720	SFL-OG	FQS125P	366	8370	SF125
TIP	1714	TSFL	FQ125	366-TO	8370T	SF 125 TIP ONLY
SG3012-BA	1718	STSFL-O	FQ125T	366-BA	N/A	N/A
SG7515	N/A	N/A	FTS200PS*	N/A	N/A	N/A
TIP	N/A	N/A	FTS200S*	N/A	N/A	N/A
SG9520	1723	SFM-G	FTS200PS*	367	10648	SF 200
TIP	1737	STFM	FTS200S*	367-TO	9974	SF 200 TIP ONLY
SG12250	1733	SF-G	FTS200PS*	368*	9724	SF250*
TIP	1744	TSF	FTS200S*	368-TO*	8346	SF 250 TIP ONLY*
LOW PRESSURE						
SG3012-LP	1720-75psi	N/A	FQ125PL*	366*	N/A	SF125LP-75
SG7515-LP	N/A	N/A	FTS200PL*	N/A	N/A	N/A
SG9520-LP	1723-75psi	N/A	FTS250PL*	367*	N/A	SF 200LP-75
TIP	1737-75psi	N/A	FT250L*	367-TO*	N/A	SF 200LP-75 TIP ONLY
SG12250-LP	1733-75psi	N/A	FTS250PL*	368*	N/A	SF 250LP-75*
TIP	1744-75psi	N/A	FT250L*	368-TO*	N/A	SF 250LP-75 TIP ONLY*
AUTOMATIC NOZZLES						
FT1550	N/A	SM-3FG	B-BGH*	310*	2317	AF 125*
TIP	N/A	TSM-3F	N/A	N/A	9970	N/A
FT2510	N/A	SM-10FG*	BGH-125*	310*	7674*	AF 125*
TIP	N/A	TSM-10F*	BTO-125*	N/A	9947*	N/A
FT5016	N/A	SM-10FG	N/A	311*	7674	AF 125*
TIP	N/A	TSM-10F	N/A	N/A	9947	N/A
FT5016-LP	N/A	N/A	N/A	N/A	N/A	AF 125LP-75*
FT8020	N/A	SM-20FG	HM-VPGI*	323	8397T*	AF 200
FT8020-LP	N/A	NA	HML-VPGI*	N/A	N/A	AF 200LP-75
FT12250	N/A	DSM-30FG*	H-2VPGI	324*	8397T*	AF 200*
CONSTANT GALLONAGE						
CG1550	4802*	4000-03	N/A	371	3570	CF 23
CG2510	4820	4000-13	ME1-VPGI	372	3568	CF 95
TIP	4814	4000-14	ME1-TO	372-TO	9978	N/A
CG5016	4820	4000-13	ME1-VPGI	372	3567	CF 95
TIP	4814	4000-14	ME1-TO	372-TO	9979	N/A
CG8020	4820	N/A	ME1-VPGI	373	N/A	CF 200
TIP	4814	N/A	ME1-TO	373-TO	N/A	CF 200 TIP ONLY
CG80202.5"	4823	N/A	ME2-2VPGI	374	N/A	CF 250
CG5016-LP	4820-75psi	4000-14-LP	ME1-VPGI	N/A	8929	CF 95LP-75 or 50
BALL SHUTOFFS						
SBV10SS	2101	SB-275A	D75D	100*	9981	BS10*
VB1560	2102	SB-275-GA	D75DP	100	9982	BS10*
SBV15SS	2115	LB-275A	F100F	100*	9983	BS15*
VB3012	2116	LB-275-GA	F100FP	101	9984	BS15
VB9520NPG	2129	B-275-A	F140F	102*	9985	BS2515*
VB9520	2127	B-275-GA	F140FP	102	9990	BS2515
VB9520NPG-2.5"	2125	DB-275-A	J140F	102*	9986	BS2525*
VB9020-2.5"	2126	DB-275-GA	J140FP	102	9987	BS2525

* DENOTES SIMILAR BUT NOT EQUIVALENT MODEL

CROSS REFERENCE CHART

C & S PRODUCTS	AKRON	ELKHART	TFT	PROTEK	POK	CRESTAR
CONSTANT FLOW						
1560	4717	N/A	N/A	N/A	12600	N/A
15100	N/A	N/A	ME1-STO*	814*	N/A	N/A
ST2510	4817	L-205-BA	ME1-STO*	814*	N/A	N/A
ST5016	4817	L-205-BA	ME1-STO*	N/A	N/A	N/A
DUAL RANGE NOZZLES						
110/23	N/A	S-205-BAF	D1024*	N/A	17748	FN1030*
1560/20	N/A	L-205-BAF	F2060	N/A	17506	N/A
1590/20	N/A	L-205-BAF	F2095*	N/A	N/A	N/A
STRAIGHT BORE NOZZLES						
1STBR3/16	N/A	N/A	DSB*	N/A	17156	N/A
1STBR1/4	N/A	N/A	DSB*	N/A	17155	N/A
1STBR3/8	1410	N/A	DSB*	N/A	1546-S	SBT45
1STBR1/2	N/A	N/A	DSB*	N/A	1546	N/A
1STBR5/8	N/A	N/A	N/A	N/A	1612	N/A
1CAFS3/4	N/A	N/A	N/A	N/A	1703	N/A
1CAFS15/16	N/A	N/A	N/A	N/A	8335	N/A
STBR1-1/4	1417 or 1499	187A	FSS11	N/A	8947	SBT61250
STBR1-1/8	1417 or 1499	187A	FSS10	105	N/A	SBT61125
STBR1-1/16	N/A	N/A	N/A	N/A	N/A	N/A
STBR1	1417 or 1499	187A	FSS9	105	1536	SBT6100
STBR15/16	1417 or 1499	187A	FSS12	105	1537	N/A
STBR7/8	1417 or 1499	187A	FSS8	105	14234	SBT60875
STBR3/4	1417	187A	FSS7	105	1704	N/A
STBR1/2	1417	187A	FSS5	105	1566	N/A
STT1	1420	ST-190-BA	FS-3STACK	115	8911	ST312
NOZZLE & SHUTOFF COMBO						
SBV10SSPG-110/23	N/A	N/A	DS1024P*	N/A	N/A	N/A
SVB15SSPG-1560/20	N/A	N/A	FS2060P*	N/A	N/A	N/A
SVB15SSPG-1590/20	N/A	N/A	FS2095P*	N/A	N/A	N/A
BALL SHUT OFF'S						
SBV10R	N/A	SB-275A-R	D75DR	N/A	N/A	N/A
SBV10SS-OR	2101	SB-275A	D75D	N/A	9981	BS10*
SBV10SSPG-OR	2102	SB-275GA	D75DP	100	9982	BS10
SBV15R	N/A	NA	N/A	N/A	N/A	N/A
SBV15SS-OR	2115	LB-275A	F100F	N/A	9983	BS15*
SBV15SSPG-OR	2116	LB-275GA	F100FP	101	9984	BS15
SBV25SS	2130 or 1828	JB-275 or B-96A	J140J	595	N/A	CHYV
WYE VALVES						
WV1010	N/A	B-100-SAF	ALYND-ND	505	90060	FWNL1000
WV15	2580	B-100-LA	ALYNF-NF	506	16015	FWNL1500
WV1510	2580	B-100-SAF	ALYNF-ND	506*	16014	FWNL1510
WV2515	2581	B-100A	AYNJ-NF	520	9866	LWNL
WV2515-B	2681	B-100	N/A	520-BC	17030	
WV2525	1582	B-97A	N/A	541	2772	HWSL
PLAIN WYE						
W15	N/A	1A	N/A	N/A	9911	N/A
W2515	N/A	1A	N/A	587*	9912	N/A
HYDRANT GATE VALVES						
HGV25	2285	X 86A	AC5ANJ-NJ	596	12782	CHGV
HGV25-B	285	X 86	AC5BNJ-NJ	N/A	12784	N/A
T-VALVE						
TV1510	N/A	N/A	ATNF/NF-ND	N/A	17548	N/A

* DENOTES SIMILAR BUT NOT EQUIVALENT MODEL

NOZZLE SELLING BASIC LINE OF QUESTIONING

Price list (PL) will list all products and catalog (CAT) pages, the PL can be a great reference tool!

WHAT SIZE INLET (HOSE COUPLING) ARE YOU LOOKING FOR?

3/4", 1", 1-1/2" (1-3/4"), or 2-1/2"? Note: 1-1/2" and 1-3/4" couplers are the same.

WHAT THREADS DO YOU USE?

National Standard Hose (NST, NH) or National pipe straight hose (NPSH, IPT, NPT)

WHAT TYPE OF NOZZLE WOULD YOU LIKE?

Select Gallonage, Constant Gallonage, Automatic, Foam, Smoothbore, or Small "BREAK- APART"

IF:

SELECT GALLONAGE What Flow rate? At what PSI? (CAT PGS 5, 7 | PL PGS 3, 4)

CONSTANT GALLONAGE What Flow rate? At what PSI? (CAT PG 4 | PL PG 3)

AUTOMATIC What Flow rate or range? At what PSI? (call for availability)

FOAM What Flow rate? (CAT PGS 8-9, 13-14 | PL PG 5)

SMOOTHBORE NOZZLE What Orifice size or Flow rate?

Please note which valve, VBU model, should go with each smoothbore tip: (CAT PGS 6, 12, 13, 14 | PL PG 7)

Flow Chart

OUTLET	40PSI	50PSI	60PSI	80PSI	100PSI	WORKS BEST WITH (SEE CAT PG 6 PL PG 6)
3/16"	6.5 GPM	7.5 GPM	8 GPM	9.3 GPM	10 GPM	VBU25
1/4"	11 GPM	13 GPM	14 GPM	16.6 GPM	18 GPM	VBU25
5/16"	18 GPM	20 GPM	22 GPM	25 GPM	29 GPM	VBU25
3/8"	27 GPM	31 GPM	32 GPM	37 GPM	43 GPM	VBU25, VBU95
1/2"	48 GPM	54 GPM	57 GPM	66 GPM	75 GPM	VBU25, VBU95
5/8"	73 GPM	82 GPM	89 GPM	103 GPM	116 GPM	VBU25, VBU95
3/4"	107 GPM	119 GPM	129 GPM	149 GPM	168 GPM	VBU25, VBU95, VBU150, VBU250
7/8"	143 GPM	160 GPM	176 GPM	203 GPM	227 GPM	VBU25, VBU95, VBU150, VBU250
15/16"	166 GPM	186 GPM	202 GPM	233 GPM	262 GPM	VBU25, VBU95, VBU150, VBU250
1"	189 GPM	211 GPM	230 GPM	265 GPM	298 GPM	VBU25, VBU95, VBU150, VBU250
1 1/16"	212 GPM	237 GPM	259 GPM	299 GPM	335 GPM	VBU25, VBU95, VBU150, VBU250
1 1/8"	239 GPM	267 GPM	291 GPM	336 GPM	337 GPM	VBU25, VBU95, VBU150, VBU250
1 3/16"	265 GPM	296 GPM	325 GPM	375 GPM	419 GPM	VBU25, VBU95, VBU150, VBU250
1 1/4"	295 GPM	329 GPM	359 GPM	415 GPM	465 GPM	VBU25, VBU95, VBU150, VBU250

DOES CUSTOMER WANT A BALL SHUTOFF OR BUILD A 'BREAK-APART' NOZZLE?

STEP 1 BALL SHUTOFF

What size inlet are they looking for?

1" (w/1" WATERWAY) SBV10SS VB1560 VBU25	1.5" (w/1" WATERWAY) SBV15SS VB3012 VBU95	1.5(1.75") (w/1-3/8" WATERWAY) VB9520NPG VB9520 VBU150	2.5 w/1.5" OUTLET (w/1-3/8" WATERWAY) VB9520NPG-2.5 VB9520-2.5 VBU250
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(CAT PGS 6, 13 & 14/PL PGS 6)

WHAT THREADS DO YOU USE?

National Standard Hose (NST, NH) or National pipe straight hose (NPSH, IPT, NPT)

STEP 2 NOZZLE TIP

For break apart or inexpensive nozzles, a nozzle tip can be added to a ball shutoff.

WHAT TYPE OF NOZZLE IS PREFERRED?

Dual Range Nozzle (CAT PG11 | PL PG 7)

Constant Flow Nozzle (CAT PG11 | PL PG 7)

Smoothbore Nozzle (CAT PG12 | PL PG 7)

What GPM do they want? (see flow chart on previous page)

HOSE COILERS (CAT PG 15 | PL PG 9):

What size hose are they going to roll?

MC40 rolls 1" & 1.5" hose

MC65 rolls 1.5" to 3" hose (this roller can also roll 1" hose with some guidance from the operator)

*** One mounting bracket (MB) is included with the MC40 and MC65

THMB trailer hitch mounting bracket is the most popular accessory for these mounts

MC80 rolls 4" -7" hose

***One Tailboard Mount is included with each unit.

Extra mounting brackets can be ordered separately



Notes

ORDERING INFORMATION

- ORDERS:** Orders will be accepted by fax at 970-663-3878 or sales@cssupplyinc.com
- TERMS:** Net 30 Days. Late Payments may result in product hold pre-pay status. Credit card payments are not eligible discounts.
- DELIVERY:** F.O.B. Fort Collins, Colorado. All Shipments will be by UPS Ground. Please advise if express shipment or special carrier is required.
- SHIPMENTS:** In-Stock items are shipped within 24-48 hours after receipt of order. We will contact you with expected delivery for any non-stock items.

Shipping Discrepancies must be reported within 10 days of delivery to assure accurate adjustment.

RETURN Items may be returned for Credit or Exchange only.

POLICY: Call 970-663-4966 for instructions and Returned Goods Authorization number (RGA). Goods returned in new condition will be restocked and can be subject to a 15% restocking charge. All returns must be properly packaged to avoid any damage to item(s). If items are damaged upon receipt, an appropriate amount will be deducted from your credit. Items must be in like new condition to receive full account credit. Any item permanently marked with your identification is NOT returnable.

REPAIR Call 970-663-4966 for instructions and Returned Goods Authorization number (RGA).

POLICY: Enclose a note explaining the problem and any other pertinent information. All effort will be made to repair the item or an equivalent replacement will be made. Defective items will be fixed according to the warranty policy. Charges for repair and parts will be issued accordingly.

THREADS: NST or NPSH threads are available on most items.

CARRIER: If you designate a carrier other than UPS, you will be responsible for paying for all the items shipped even if your carrier loses some of it. Be sure to insure all items through your carrier. Carrier designation can only be done on freight collect shipments.

WE ACCEPT: Visa, MasterCard and American Express

LIMITED WARRANTY FOR C&S PRODUCTS

C&S Supply, Inc. and its manufacturers warrant their products to the original purchaser or any person to whom the product is transferred, that our product is free of defects in material and workmanship for five (5) years commencing from the date of purchase.

This warranty is limited to repairing or replacing the defective product. In the event that the defect is found to be attributable to C&S, the product will either be repaired or replaced, at the discretion of the company, at no cost to the customer.

To qualify for this warranty, the product must be returned to the Company, shipping prepaid, proof of purchase may be required, and within a reasonable time after discovery of the defect.

The company disclaims any implied warranties of merchantability or of fitness for any particular purpose. No warranties will apply if the product is in any way altered or modified after delivery by the company.



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