

2026

C&S
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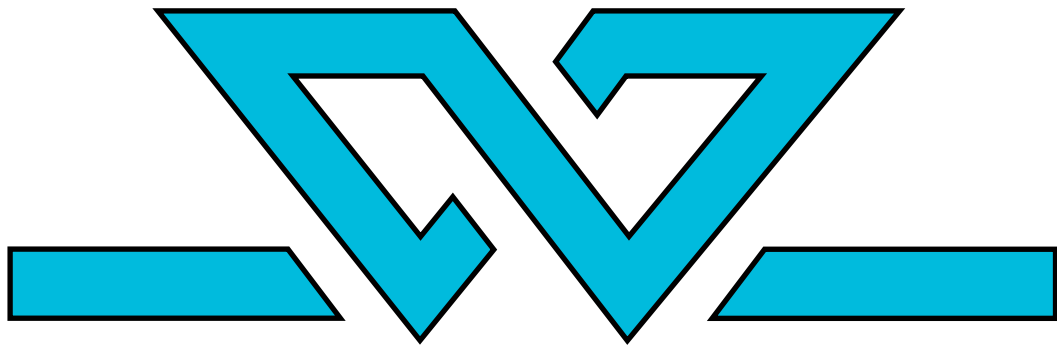
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INTRODUCING



WATERSHIELD

NEW FIREFIGHTING NOZZLES AND WATERFLOW EQUIPMENT FROM THE FIRE INDUSTRY'S LEADING MANUFACTURER OF WILDLAND WATER FLOW NOZZLES, VALVES, AND ACCESSORIES — MADE FOR STRUCTURAL FIREFIGHTING REQUIREMENTS AND INDUSTRIAL FIRE BRIGADES

WATERSHIELD FIREFIGHTING NOZZLES ARE EXCLUSIVELY DISTRIBUTED BY C&S. THEY ARE DESIGNED AND BUILT WITH FIXED OR ADJUSTABLE GALLONAGE, WIDE FOG PATTERNS, AND STRAIGHT STREAM EVOLUTIONS FOR STRUCTURAL FIREFIGHTING, CHEMICAL PLANTS, REFINERIES, AND THE MINING AND TIMBER INDUSTRIES. TODAY'S FIRE SERVICE CAN BUY SAFE AND QUALITY FIREFIGHTING EQUIPMENT THAT IS BOTH DURABLE AND AFFORDABLE.



WATERSHIELD SELECT GALLONAGE NOZZLES

**FEATURES & SPECIFICATIONS**

- NFPA 1964 COMPLIANT
- FULL-TIME SWIVEL
- PISTOL GRIP
- METAL BAIL HANDLE
- 90-DEGREE ROTATION FROM 110-DEGREE FOG TO STRAIGHT STREAM
- 600 PSI MAX PRESSURE
- PROFESSIONAL RESULTS WITH WIDE FLOW RANGE
- FLUSH WITHOUT SHUTTING DOWN
- CONSTANT FLOW THROUGH FOG AND STRAIGHT STREAM
- ERGONOMICALLY DESIGNED FOR EASY OPERATION AND HANDLING
- SAFE AND DURABLE (INDIVIDUALLY TESTED)

**SG5-60**

5 – 60 GPM @ 100 PSI

5 GALLONAGE SELECTION RING FOR 5-15-30-50-60 AND FLUSH WITHOUT PATTERN CHANGE

1" NST & 1" NPSH AVAILABLE

1.5" SWIVEL INLET NH FULL-TIME SWIVEL

Wt: 2.6 LB, L: 7.5", H: 8.5", Wd: 3.5"

**SG30-150**

30 – 150 GPM @ 100 PSI

5 GALLONAGE SELECTION RING FOR 30-60-95-125-150 AND FLUSH WITHOUT PATTERN CHANGE

1.5" NST & 1.5" NPSH AVAILABLE

1.5" SWIVEL INLET NH FULL-TIME SWIVEL

Wt: 4 LB, L: 8.5", H: 8.75", Wd: 3.75"

WATERSHIELD INDUSTRIAL NOZZLES

NOZZLE TIPS

IND95-T

95 GPM NOZZLE TIP
TWIST SHUTOFF
SPINNING TEETH
1.5" NST & 1.5" NPSH AVAILABLE
Wt: 1.6 LB, L: 5", Dia.: 3.5"



IND95-C

95 GPM NOZZLE TIP
FIBERGLASS-REINFORCED COMPOSITE
TWIST SHUTOFF
1.5" NST
Wt: 0.6 LB, L: 5.25", Dia.: 2.75"



IND125-T

125 GPM NOZZLE TIP
TWIST SHUTOFF
SPINNING TEETH
1.5" NST & 1.5" NPSH AVAILABLE
Wt: 1.6 LB, L: 5", Dia.: 3.5"



BREAK-APART NOZZLES



IND30



IND95



IND125

FEATURES & SPECIFICATIONS

- HARD ANODIZED ALUMINUM WITH STAINLESS INTERNAL PARTS
- FULL-TIME SWIVEL
- PISTOL GRIP
- METAL BAIL HANDLE
- 100 PSI WORKING PRESSURE
- 600 PSI MAX PRESSURE
- FOG PATTERN, STRAIGHT STREAM, AND TWIST SHUTOFF WITH TURN OF PROTECTIVE RUBBER BUMPER
- ERGONOMICALLY DESIGNED FOR EASY OPERATION AND HANDLING
- SAFE AND DURABLE (INDIVIDUALLY TESTED)



IND95 (2.5)



IND125 (2.5)

MODEL #	INLET	FLOW RATE	NOZZLE TIP	VALVE	Wt/LENGTH
IND30	1" (NST OR NPSH)	30 GPM	IND130-T	1WSV-1PG	2 LB/7.25"
IND95	1.5" (NST OR NPSH)	95 GPM	IND95-T	WSV-15PG	3.2 LB/8.5"
IND95 (2.5)	2.5" (NST)	95 GPM	IND95-T	WSV-FF-25PG	4.2 LB/12"
IND125	1.5" (NST OR NPSH)	125 GPM	IND125-T	WSV-15G	3.2 LB/8.5"
IND125 (2.5)	2.5" (NST)	125 GPM	IND25-T	WSV-FF-25PG	4.2 LB/12"

WATERSHIELD SMOOTH-BORE BREAK-APART NOZZLES

FEATURES & SPECIFICATIONS

- FULL-TIME SWIVEL
- PISTOL GRIP
- METAL BAIL HANDLE
- 50 PSI WORKING PRESSURE
- 600 PSI MAX PRESSURE
- CONSTRUCTED OF HARD ANODIZED ALUMINUM WITH STAINLESS INTERNAL PARTS
- FOG PATTERN, STRAIGHT STREAM AND TWIST SHUTOFF WITH TURN OF PROTECTIVE RUBBER BUMPER
- ERGONOMICALLY DESIGNED FOR EASY OPERATION AND HANDLING
- SAFE AND DURABLE (INDIVIDUALLY TESTED)



STBR-WS-10

1" SMOOTH BORE

BEST WITH SHUTOFF WSV-1PG
NST OR NPSH
Wt.: 3 LB, L: 5"



STBR-WS-15

1.5" SMOOTH BORE

BEST WITH SHUTOFF WSV-FF-15PG
NST OR NPSH
SMOOTH 1 3/8" WATERWAY
Wt.: 3 LB, L: 5"



STBR-WS-25

2.5" SMOOTH BORE

BEST WITH SHUTOFF WSV-FF-25PG
NST OR NPSH
SMOOTH 1 3/8" WATERWAY
Wt.: 3 LB, L: 5"

MODEL #	SWIVEL INLET	VALVE	TIP OPTIONS
STBR-WS-10	1" NST OR NPSH	WSV-1PG BALL VALVE W/ FULL 1" WATERWAY	ST BR 3/16" ST BR 1/4" ST BR 5/16" ST BR 3/8" (standard) ST BR 1/2" ST BR 5/8" ST BR 3/4" ST BR 15/16"
STBR-WS-15	1.5" NST OR NPSH	WSV-FF-15PG BALL VALVE W/ FULL 1 1/2" WATERWAY	ST BR 3/8" ST BR 1/2" ST BR 5/8" ST BR 53/64" ST BR 7/8" ST BR 15/16" (standard) ST BR 1" ST BR 1 1/8" ST BR 1 3/16" ST BR 1 1/4"
STBR-WS-25	2.5" NST	WSV-FF-25PG BALL VALVE W/ FULL 1 1/2" WATERWAY	ST BR 3/8" ST BR 1/2" ST BR 5/8" ST BR 3/4" ST BR 53/64" ST BR 7/8" ST BR 15/16" ST BR 1" ST BR 1 1/8" (standard) ST BR 1 3/16" ST BR 1 1/4"

WATERSHIELD COMBO BREAK-APART NOZZLES



SB-WS-10

1" BUMPERLESS DUAL-FLOW NOZZLE
10/23 GPM
BEST WITH SHUTOFF WSV-1PG
Wt.: 2.6 LB, L: 5"



SB-WS-10WB

**1" DUAL-FLOW NOZZLE WITH RUBBER
BUMPER**
10/23 GPM
BEST WITH SHUTOFF WSV-1PG
Wt.: 3 LB, L: 5"



SB-WS-15

1.5" Nozzle
20/60 GPM
BEST WITH SHUTOFF WSV-15PG
Wt.: 3.75 LB, L: 9.5"

FEATURES & SPECIFICATIONS

- FULL-TIME SWIVEL
- PISTOL GRIP
- METAL BAIL HANDLE
- CONSTRUCTED OF HARD ANODIZED ALUMINUM WITH STAINLESS INTERNAL PARTS
- FOG PATTERN, STRAIGHT STREAM AND A TWIST SHUTOFF WITH TURN OF PROTECTIVE RUBBER BUMPER
- 100 PSI WORKING PRESSURE
- 600 PSI MAX PRESSURE
- ERGONOMICALLY DESIGNED FOR EASY OPERATION AND HANDLING
- SAFE AND DURABLE (INDIVIDUALLY TESTED)

MODEL #	SWIVEL INLET	VALVE	TIP OPTIONS & FLOW
SB-WS-10	1" NST OR NPSH	WSV-1PG BALL VALVE W/ FULL 1" WATERWAY	105/15BL: 5/15 GPM 110/23BL (STANDARD): 10/23 GPM
SB-WS-10WB	1" NST OR NPSH	WSV-1PG BALL VALVE W/ FULL 1" WATERWAY	105/15: 5/15 GPM 110/23 (STANDARD): 10/23 GPM
SB-WS-15	1.5" NST OR NPSH	WSV-15PG BALL VALVE W/ FULL 1" WATERWAY	1560/20 (standard): 20/60 GPM dual flow 1560: 60 GPM constant flow 1590/2020/90 GPM dual flow 15100: 100 GPM constant flow

WATERSHIELD SHUTOFFS

FEATURES & SPECIFICATIONS

- FULL-TIME SWIVEL
- METAL BAIL HANDLE
- VALVE BODY CONSTRUCTED OF HARD ANODIZED ALUMINUM
- SHUTOFF HANDLES CONSTRUCTED OF CAST ALUMINUM
- ERGONOMICALLY DESIGNED FOR EASY OPERATION AND HANDLING
- SAFE AND DURABLE (INDIVIDUALLY TESTED)

VALVE ONLY



WSV-1

1" BALL SHUTOFF


WSV-15

1.5" BALL SHUTOFF


WSV-FF-15

1.5" BALL SHUTOFF
FULL-FLOW 1 1/2" WATERWAY
GREAT FOR 1 3/4" LINES


WSV-FF-25

2.5" BALL SHUTOFF
FULL-FLOW 1 1/2" WATERWAY

WITH PISTOL GRIP



WSV-1PG

1" BALL SHUTOFF


WSV-15PG

1.5" BALL SHUTOFF


WSV-FF-15PG

1.5" BALL SHUTOFF
FULL-FLOW 1 1/2" WATERWAY
GREAT FOR 1 3/4" LINES


WSV-FF-25PG

2.5" BALL SHUTOFF
FULL-FLOW 1 1/2" WATERWAY

MODEL #	INLET/OUTLET	WATERWAY SIZE	WEIGHT/HEIGHT	MAX WORKING PRESSURE
WSV-1	1" F. x 1" M. (NST OR NPSH)	3/4"	1 LB/9"	600 PSI
WSV-1PG	1" F. x 1" M. (NST OR NPSH)	3/4"	1.2 LB/9"	600 PSI
WSV-15	1.5" F. x 1.5" M. (NST OR NPSH)	1"	1.4 LB/8.75"	600 PSI
WSV-15PG	1.5" F. x 1.5" M. (NST OR NPSH)	1"	1.6 LB/8.75"	600 PSI
WSV-FF-15	1.5" F. x 1.5" M. (NST OR NPSH)	1 1/2"	2 LB/9.5"	400 PSI
WSV-FF-15PG	1.5" F. x 1.5" M. (NST OR NPSH)	1 1/2"	2.2 LB/9.5"	400 PSI
WSV-FF-25	2.5" F. x 1.5" M. (NST ONLY)	1 1/2"	3 LB/9.5"	400 PSI
WSV-FF-25PG	2.5" F. x 1.5" M. (NST ONLY)	1 1/2"	3.2 LB/9.5"	400 PSI

WATERSHIELD FOAM NOZZLE TIPS



WS-FN18-75

MODEL #	INLET	GPM	EXPANSION RATE	EFFECTIVE REACH	WEIGHT/LENGTH
WS-FN18-75	3/4" (GHT)	18	10:1	60'	0.6 LB/9"
WS-FN18-1	1" (NST or NPSH)	18	10:1	60'	0.6 LB/9"
WS-FN30-1	1" (NST or NPSH)	30	10:1	60'	0.6 LB/9"
WS-FN60-15	1.5"	60	10:1	90'	1 LB/10"
WS-FN95-15	1.5"	95	10:1	90'	1 LB/10"

FEATURES & SPECIFICATIONS

- CONSTRUCTED OF HARD ANODIZED ALUMINUM
- 100 PSI OPERATING PRESSURE
- LOW-EXPANSION FOAM

WATERSHIELD ACCESSORIES & WILDLAND



WS-LG-15

1.5" LINE GAUGE

MEASURES UP TO 300 PSI

1.5" NST & 1.5" NPSH AVAILABLE

SMOOTH WATERWAY

CONSTRUCTED OF HARD ANODIZED ALUMINUM

Wt: 1.6 LB, L: 4", H: 6", Wd: 3.25"

AVAILABLE MAY 2026

2.5" LINE GAUGE

1.5" x 1" CONE REDUCERS

1" x 3/4" CONE REDUCERS

3/4" FLAT STREAM NOZZLE



WS-RE-25

2.5" x 1.5" CONE REDUCER

2.5" FULL-TIME SWIVEL

2.5" x 1.5" NST SMOOTH WATERWAY REDUCER

MINIMIZES FRICTION LOSS

CONSTRUCTED OF HARD ANODIZED ALUMINUM WITH INTERNAL

STAINLESS STEEL

Wt: 1 LB, L: 4", Wd: 4"

ADJUSTABLE SPRINKLER KIT

Wt: 3.8 LB (WHOLE KIT), H: 23" (SHORTEST CONFIGURATION) – 36" (FULLY EXTENDED)



WS-SP-75NH (KIT)

KIT INCLUDES:

- IMPACT SPRINKLER HEAD WITH USFS ELBOW AND 3/4" GHT (NH) INLET x 7/64" OUTLET (STANDARD) (NFES 0999)
- USFS 3/4" WYE VALVE TO REGULATE INLET AND ALLOW FOR ADDING MORE SPRINKLERS (NFES 0904)
- TWO 18" STAKES TO MOUNT SPRINKLER (NFES 0913)
- TWO V BOLTS TO ATTACH SPRINKLER TO STAKES AND EXTEND LENGTH OF ASSEMBLY
- 3/4" GHT (NH) HOSE CONNECTIONS
- 35 – 60 PSI WORKING PRESSURE
- CONSTRUCTED OF HARD ANODIZED ALUMINUM ELBOW, STAINLESS BOLTS, AND BRASS HOSE CONNECTIONS AND SPRINKLER HEAD
- SAFE AND DURABLE (INDIVIDUALLY TESTED)
- PART OF THE MASTER FEDERAL SPRINKLER KIT (NFES 1048)

VIPER 2.0 SPARTAN CONSTANT

VS25

CONSTANT FLOW: 30 GPM @ 100 PSI (STANDARD)
 SUPER COMPACT LIGHTWEIGHT FRAME
 1" SWIVEL INLET (NST OR NPSH)
 SPECIFY FLOW AND PRESSURE WHEN ORDERING
 Wt: 2.8 LB, L: 7.75", Wd: 3.4"



VS25

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

VS95

CONSTANT FLOW: 95 GPM @ 100 PSI (STANDARD)
 1.5" SWIVEL INLET (NST OR NPSH)
 SPECIFY FLOW AND PRESSURE WHEN ORDERING
 Wt: 4 LB, L: 9.84"



VS95

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

NFPA COMPLIANT, PROFESSIONAL CONSTANT FLOW NOZZLES

VS150

CONSTANT FLOW: 200 GPM @ 100 PSI (STANDARD)
 1.5" SWIVEL INLET (NST OR NPSH)
 SPECIFY FLOW AND PRESSURE WHEN ORDERING
 Wt: 6.5 LB, L: 11.2"



VS150

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

VS250

CONSTANT FLOW: 200 GPM @ 100 PSI (STANDARD)
 2.5" SWIVEL INLET (NST OR NPSH)
 SPECIFY FLOW AND PRESSURE WHEN ORDERING
 Wt: 6.7 LB, L: 12"



VS250

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

VS300

CONSTANT FLOW: 250 GPM @ 100 PSI (STANDARD)
 2.5" SWIVEL INLET (NST OR NPSH)
 SPECIFY FLOW AND PRESSURE WHEN ORDERING
 Wt: 7.5 LB, L: 13"



VS300

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

VIPER 2.0 SELECT GALLONAGE



NFPA COMPLIANT NOZZLES WITH SELECT FLOWS

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 AND FOG BARRELS FOR EASY PATTERN AND 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 AND 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 AND 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"	5-10-25-50 GPM	100 PSI 75 PSI 50 PSI	3.6 LB/8.5"
BD1560	1"	15-30-50-60 GPM	100 PSI 75 PSI	3.6 LB/8.5"
BD3012	1.5"	30-60-95-125 GPM	100 PSI 75 PSI 50 PSI	4.2 LB/9.88"
BD3015	1.5"	30-60-95-125-150 GPM	100 PSI 75 PSI	4.2 LB/9.88"
BD7515	1.5"	75-100-125-150 GPM	100 PSI 75 PSI	4.2 LB/9.88"
BD9520(1.5)	1.5"	95-125-150-200 GPM	100 PSI 75 PSI	6.8 LB/11"
BD9520(2.5)	2.5"	95-125-150-200 GPM	100 PSI 75 PSI	7.8 LB/12.75"
BD12250(1.5)	1.5"	125-150-200-250 GPM	100 PSI	6.8 LB/11"
BD12250(2.5)	2.5"	125-150-200-250 GPM	100 PSI	7.8 LB/12.75"

VIPER 2.0 TIPS & ULTRA-BORE SHUTOFFS

TIPS

ADD A VIPER 2.0 TIP TO ANY VBU SHUTOFF TO CREATE A COMPACT PROFESSIONAL BREAK-APART NOZZLE.
NFPA COMPLIANT.



MODEL #	FLOW RATE OPTIONS	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 @ 100 PSI	1.5" SWIVEL	VBU95
BD9520TIP	SELECT: 95-125-150-200 GPM @ 100 PSI	1.5" SWIVEL	VBU150
BD12250TIP	SELECT: 125-150-200-250 GPM @ 100 PSI	1.5" SWIVEL	VBU150

ULTRA-DUTY PRECISION SHUTOFFS

ULTRA-BORE SHUTOFFS WITH PISTOL GRIP



VBU25

AMAZING CAFS SHUTOFF
STAINLESS BALL & DUAL TEFLON SEALS
FULL-TIME SWIVEL WITH REMOVEABLE SCREEN

MADE FROM EXTRUDED E-LITE ALLOY AND HARD COATED
QUALITY RESIN BALL AND TEFLON SEALS
580 PSI MAX WORKING PRESSURE
INLETS/OUTLETS AVAILABLE IN NST OR NPSH

ULTRA-BORE SHUTOFFS NO PISTOL GRIP



VBU250-IB210NPG

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

MODEL #	INLET/ OUTLET	WATERWAY SIZE	INLET/ OUTLET
VBU25NPG	1"/1"	1"	1"/1"
VBU95NPG	1.5"/1.5"	1"	1.5"/1.5"
VBU150-IB160NPG	1.5"/1.5"	1 3/8"	1.5"/1.5"
VBU150-IB185NPG	1.5"/1.5"	1 3/8"	1.5"/1.5"
VBU150-IB210NPG	1.5"/1.5"	1 3/8"	1.5"/1.5"
VBU250-IB210NPG	2.5"/1.5"	1 3/8"	2.5"/1.5"
VBU250-IB265NPG	2.5"/1.5"	1 3/8"	2.5"/1.5"

VIPER SELECT GALLONAGE

FEATURES AND SPECIFICATIONS:

NOZZLES ARE EXTRUDED WITH E-LITE ALLOY • HARD-COATED FOR CORROSION PROTECTION AND DURABILITY • 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 PISTOL GRIP • LOW OPERATING PRESSURE OPTIONS OF 75 OR 50 PSI AVAILABLE • 1" AND 1.5" AVAILABLE IN BOTH NST AND NPSH • TIP ONLY AVAILABLE TO MAKE BREAK-APART NOZZLES • TIP WORKS GREAT MATCHED WITH OUR INTEGRATED SMOOTH-BORE SHUTOFFS (PGS 18, 19)



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

TIPS

NOZZLES

BREAK-APART TIPS RIGID BASE THREAD:

1": NST OR NPSH; ALL OTHERS: NST ONLY

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

MODEL #	NOZZLE TYPE	FLOW RATE	INLET	Wt/LENGTH
VTE1550	COMPOSITE	CONSTANT: 30 GPM	1.5" (NST OR NPSH)	1 LB/5"
VTE5210	COMPOSITE	CONSTANT: 95 GPM	1.5" (NST OR NPSH)	1 LB/5"
BLACK KNIGHT	FIBERGLASS-REINFORCED COMPOSITE	CONSTANT: 95 GPM	1.5" (NST OR NPSH)	1 LB/5"
ST2510 TIP	SPINNING TEETH	CONSTANT: 95 GPM	1.5" (NST ONLY)	1 LB/5"
ST5016 TIP	SPINNING TEETH	CONSTANT: 125 GPM	1.5" (NST ONLY)	1 LB/5"



VTE1550

VTE5210



ST1530-PV

ST2510-PV

ST5016-PV2.5



BLACK KNIGHT



ST2510



ST5016

PORTABLE FOAM EQUIPMENT

QUESTIONS? WWW.CSSUPPLYINC.COM/FOAM-101

BYPASS EDUCTORS

WITH WATER BYPASS AND METERING DIAL

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



BYPP7515-DIAL

FOAM TUBES

MODEL #	FLOW RATE	THREAD SIZE	EXPANSION RATE	WT/LENGTH
PVB1560	30 GPM	1" SWIVEL (NST OR NPSH)	8:1 TO 12:1	3 LB/15.5"
PVB3012	60 GPM	1.5" SWIVEL (NST OR NPSH)	8:1 TO 12:1	3.5 LB/19"
PVB7515	95 GPM	1.5" SWIVEL (NST OR NPSH)	8:1 TO 12:1	3.5 LB/19"
CEP1560	CLAMPS ON VIPER NOZZLES: SG1560, SG540	N/A	8:1 TO 12:1	1 LB/12"
CEP3012	CLAMPS ON VIPER NOZZLES: SG3012, SG7515, SG9520	N/A	8:1 TO 12:1	2 LB/16"
CEPBD3012	CLAMPS ON VIPER NOZZLES: BD3012, BD3015, BD7515, VS95	N/A	8:1 TO 12:1	2 LB/16"



PVB1560



PVB7515



CEP1560



CEP3012

FOAM GUN PROPORTIONER

MAINTAINANCE-FREE CLASS A FOAM

MODEL #	HARD CARTRIDGE STICK LENGTH & AMT.	INLET/OUTLET	WT
FGP12-1	15.5" (2)	1" RIGID F. x 1" M. (NST OR NPSH)	2.2 LB
FGP12-15	15.5" (2)	1.5" RIGID F. x 1" M. (NST OR NPSH)	2.2 LB
FGP6-1	9.25" (2)	1" RIGID F. x 1" M. (NST OR NPSH)	1.6 LB
FGP6-15	9.25" (2)	1.5" RIGID F. x 1" M. (NST OR NPSH)	1.6 LB



FCA-24

FOR 6" FOAM STICK UNITS,
CUT 12" FOAM STICK IN HALF.



FGP12-1



FGP6-1

FOAM TUBE REFILLS

MODEL #	NO. OF 12" HARD CARTRIDGE STICKS	WT
FCA-02	2	1.2 LB
FCA-24	1 BOX OF 24	14.4 LB
FCA-240	10 OR MORE BOXES OF 24	14.4 LB PER BOX

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

PIERCING NOZZLE



MODEL #	FEATURES	THREAD SIZE	FLOW RATE	WT/LENGTH
PN-100	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 @ 100 PSI 120 GPM @ 150 PSI	1 LB/41"
PN-100-HOSE	6' HOSE EXTENSION 1.75" DOUBLE JACKET W/ 1.5" COUPLINGS	1.5" SWIVEL (NST ONLY)	N/A	3. LB/6'
PN-100-TIP	60° FWD TO 10° REAR SPRAY PATTERN FOR COMPLETE COVERAGE	N/A	100 GPM @ 100 PSI 120 GPM @ 150 PSI	2. LB/10"
PN-100-EXT	3' STAINLESS STEEL EXTENSION FOR PN-100	N/A	N/A	10. LB/36"
PN-100-COMBO	PN-100 + PN-100-HOSE + SBV15SS COMBO INCREASES MANEUVERABILITY OF THE NOZZLE AT A NICE PRICE	1.5" SWIVEL (NST ONLY)	100 GPM @ 100 PSI 120 GPM @ 150 PSI	1 LB/41"



SMALL NOZZLE TIPS

DURABLE AND ECONOMICAL

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 RATES	INLET	WEIGHT/LENGTH
105/15BL (BUMPERLESS)	5/15 GPM	1" (NST OR NPSH)	1 LB/4"
105/15BL GHT (BUMPERLESS)	5/15 GPM	3/4" (GHT)	1 LB/4"
110/23BL (BUMPERLESS)	10/23 GPM	1" (NST OR NPSH)	1 LB/4"
110/23BL GHT (BUMPERLESS)	10/23 GPM	3/4" (GHT)	1 LB/4"
105/15	5/15 GPM	1" (NST OR NPSH)	1 LB/4"
105/15 GHT	5/15 GPM	3/4" (GHT)	1 LB/4"
110/23	10/23 GPM	1" (NST OR NPSH)	1 LB/4"
110/23 GHT	10/23 GPM	3/4" (GHT)	1 LB/4"
1560/20	20/60 GPM	1.5" (NST OR NPSH)	1 LB/5"
1590/20	20/90 GPM	1.5" (NST OR NPSH)	1 LB/5"

CONSTANT FLOW

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



SMOOTH BORES & STACKED TIPS

THE STANDARD IN SMOOTH-BORE NOZZLES

CONSTRUCTED OF ANODIZED ALUMINUM

1" SMOOTH BORE (NST OR NPSH)

BEST WITH SHUTOFF VB1560

Wt.: 0.8 LB, L: 4"

MODEL #	OUTLET	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI
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"ST BR 3/8"

1.5" SMOOTH BORE (NST OR NPSH)

BEST WITH SHUTOFF VB9520

Wt.: 0.8 LB, L: 5"

MODEL #	OUTLET	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI
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.: 1.2 LB, L: 8")	15/16" & 1/2"	166/48 GPM	186/54 GPM	202/57 GPM	233/66 GPM	262/75 GPM
STT-1 (Wt.: 1 LB, L: 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 15/16"



ST BR1"



BALL SHUTOFFS

ECONOMICAL, DURABLE, LIGHTWEIGHT, EASY TO OPERATE

MODEL #	INLET/OUTLET	WATERWAY SIZE	HANDLE MATERIAL
VB1560-M	1" F. x 1" M. (NST OR NPSH)	1"	METAL
VB1560	1" F. x 1" M. (NST OR NPSH)	1"	COMPOSITE
VB3012-M	1.5" F. x 1.5" M. (NST OR NPSH)	1"	METAL
VB3012	1.5" F. x 1.5" M. (NST OR NPSH)	1"	COMPOSITE
VB9520 (1.5)-M	1.5" F. x 1.5" M. (NST OR NPSH)	1 3/8"	METAL
VB9520 (1.5)	1.5" F. x 1.5" M. (NST OR NPSH)	1 3/8"	COMPOSITE
VB9520 (2.5)-M	2.5" F. x 1.5" M. (NST OR NPSH)	1 3/8"	METAL
VB9520 (2.5)	2.5" F. x 1.5" M. (NST OR NPSH)	1 3/8"	COMPOSITE
VBPP9520 (2.5)	2.5" F. x 1.5" M. (NST ONLY)	1 3/8"	COMPOSITE

FEATURES

- MADE OF EXTRUDED E-LITE ALLOY AND HARD COATED
- LIGHTWEIGHT AND DURABLE
- QUALITY POLYMER BALLS AND SEATS
- FULL-TIME SWIVEL
- COMFORTABLE PISTOL GRIP
- 300 PSI MAX WORKING PRESSURE



VB9520 (2.5)

MODEL #	INLET/OUTLET	WATERWAY SIZE	HANDLE MATERIAL
SBV10SS-M	1" F. x 1" M. (NST OR NPSH)	1"	METAL
SBV10SS	1" F. x 1" M. (NST OR NPSH)	1"	COMPOSITE
SBV15SS-M	1.5" F. x 1.5" M. (NST OR NPSH)	1"	METAL
SBV15SS	1.5" F. x 1.5" M. (NST OR NPSH)	1"	COMPOSITE
VB9520NPG(1.5)-M	1.5" F. x 1.5" M. (NST OR NPSH)	1 3/8"	METAL
VB9520NPG(1.5)	1.5" F. x 1.5" M. (NST OR NPSH)	1 3/8"	COMPOSITE
VB9520NPG(2.5)-M	2.5" F. NST x 1.5" M. (NST OR NPSH)	1 3/8"	METAL
VB9520NPG(2.5)	2.5" F. NST x 1.5" M. (NST OR NPSH)	1 3/8"	COMPOSITE



SBV10SS

FEATURES

- MADE OF HARD-COATED ALUMINUM
- LIGHTWEIGHT AND DURABLE
- QUALITY POLYMER BALLS AND SEATS
- CAST ALUMINUM SHUTOFF HANDLE
- 300 PSI MAX WORKING PRESSURE

CAFS & SMOOTH-BORE NOZZLES

QUALITY COMPRESSED AIR FOAM SOLUTIONS

MODEL #	SWIVEL INLET	COMPONENTS	TIP OPTIONS
CAFS-VIP-10	1" F. (NST OR NPSH)	• 1" ST BR 15/16 (STANDARD) (PG 17) • VB1560 (PG 18)	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" F. (NST OR NPSH)	• ST BR 1 1/8" (STANDARD) (PG 17) • VB9520(1.5) (PG 18)	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" F. (NST ONLY)	• ST BR 1" (STANDARD) (PG 17) • VB9520 (2.5) (PG 18)	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" F. (NST ONLY)	• STT1 (STANDARD) (PG 17) (OUTLET SIZES: 1 1/4", 1 1/8", & 1" w/ 1.5" NST BASE) • VBPP9520 (2.5) (PG 18)	N/A



CAFS-VIP-15



STBR-VIP-25



VBPP-STT1

INTEGRATED SMOOTH-BORE NOZZLES

FEATURES

- MADE OF EXTRUDED E-LITE ALLOY AND HARD COATED
- LIGHTWEIGHT AND DURABLE
- QUALITY POLYMER SHUTOFFS, BALLS, AND SEATS
- 300 PSI MAX WORKING PRESSURE



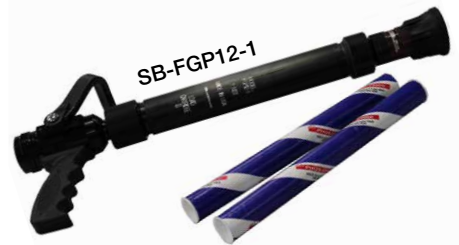
VBU9520-ISB15/16 (1.5)

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

COMBO BREAK-APART NOZZLES

HIGH-PERFORMANCE HARD FOAM CARTRIDGE PROPORTIONERS

MODEL #	INLET	COMPONENTS	TIP OPTIONS
SB-FGP6-1	1"	• WSV-1PG: 1" SHUTOFF W/ PISTOL GRIP (PG 8) • FPG6-1: 1" FOAM GUN PROPORTIONER (PG 14) • 110/23: 1" NOZZLE TIP 10/23 GPM (STANDARD) (PG 16) • FCA-02: 2 x 12" CLASS A FOAM CARTRIDGES (PG 14) (CUT FOAM CARTRIDGES IN HALF)	110/23 105/15 115 130
SB-FGP6-15	1.5"	• WSV-15PG: 1.5" SHUTOFF W/ PISTOL GRIP (PG 8) • FPG6-15: 1.5" FOAM GUN PROPORTIONER (PG 14) • 1560/20: 1.5" NOZZLE TIP 20/60 GPM (STANDARD) (PG 16) • FCA-02: 2 x 12" CLASS A FOAM CARTRIDGES (PG 14) (CUT FOAM CARTRIDGES IN HALF)	1560/20 1590/20 1560 15100
SB-FGP12-1	1"	• WSV-1PG: 1" SHUTOFF W/ PISTOL GRIP (PG 8) • FPG12-1: 1" FOAM GUN PROPORTIONER (PG 14) • 110/23: 1" NOZZLE TIP 10/23 GPM (STANDARD) (PG 16) • FCA-02: 2 x 12" CLASS A FOAM CARTRIDGES (PG 14)	110/23 105/15 115 130
SB-FGP12-15	1.5"	• WSV-15PG: 1.5" SHUTOFF W/ PISTOL GRIP (PG 8) • FPG12-15: 1.5" FOAM GUN PROPORTIONER (PG 14) • 1560/20: 1.5" NOZZLE TIP 20/60 GPM (STANDARD OPTION) (PG 16) • FCA-02: 2 x 12" CLASS A FOAM CARTRIDGES (PG 14)	1560/20 1590/20 1560 15100



C&S ECONOMY SPECIAL BREAK-APART NOZZLES



SB-VIP-15



SB-VIP-10

MODEL #	INLET (NST OR NPSH)	COMPONENTS	MATERIAL
SB-VIP-10	1"	• 110/23BL: 1" BUMPERLESS NOZZLE TIP 10/23 GPM (PG 16) • VB1560: 1" SHUTOFF W/ PISTOL GRIP (PG 18)	HARD-COATED ALUMINUM
SB-VIP-15	1.5"	• 1560/20: 1.5" NOZZLE TIP 20/60 GPM (STANDARD) (PG 16) • OPTIONAL TIPS: 1590/20, 1560, & 15100 (PG 16) • VB3012: 1.5" BALL SHUTOFF W/ PISTOL GRIP (PG 18)	HARD-COATED ALUMINUM
SB-VIP-10C	1"	• VTE1550: 1.5" CONSTANT FLOW 30 GPM COMPOSITE NOZZLE TIP (PG 13) • VB1560: 1" SHUTOFF W/ PISTOL GRIP (PG 18)	VALVE: HARD-COATED ALUMINUM NOZZLE: COMPOSITE W/ BRASS INTERNALS
SB-VIP-15C	1.5"	• BLACK KNIGHT: CONSTANT FLOW 95 GPM FIBERGLASS-REINFORCED COMPOSITE NOZZLE TIP (PG 13) • VB3012: 1.5" BALL SHUTOFF W/ PISTOL GRIP (PG 18)	VALVE: HARD-COATED ALUMINUM NOZZLE: COMPOSITE W/ BRASS INTERNALS

WILDLAND EQUIPMENT

TWIN TIPS

MODEL #	FEATURES
TT300 FOG TIP - 3 GPM	- INLET: 1" F. RIGID (NST OR NPSH) - OUTLET: 3/4" NH (GARDEN HOSE THREADS) - VALVE POSITIONS: LOWER OUTLET, UPPER OUTLET, & OFF
TT300 FOG TIP - 6 GPM	
TT300 FOG TIP - 15 GPM	
TT300 STRAIGHT TIP 3/16"	
TT300 STRAIGHT TIP 1/4"	
TT300 STRAIGHT TIP 3/8"	
APP-2	3/4" GHT TWO-PIECE APPLICATOR WAND W/ SPRAY TIP
GH	3/4" GHT ADJUSTABLE MOP NOZZLE



T's

MODEL #	F. x M. x M. SIZES	THREAD TYPE	CAP & CHAIN	VALVE	CONSTRUCTION
TV1510	1.5" x 1.5" x 1"	ANY COMBO OF 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



FLAT STREAM NOZZLE

COMPACT SMOOTH-BORE NOZZLE W/ FLAT STREAM PAN
 30 GPM @ 100 PSI FULLY OPEN IN SMOOTH-BORE POSITION
 20 GPM @ 100 PSI IN FLAT STREAM POSITION
 3/4" GARDEN HOSE INSERT IN A 1" F. NPSH RIGID BASE
 WT: 0.5 LB, L: 5"



ALUMINUM FOOT VALVE STRAINER



FV-A 1 1/2" NST



SBV75R

BRASS GARDEN HOSE SHUTOFF

3/4" GHT RIGID F. x 3/4" GHT M.
 3/8" WATERWAY
 FRONT & REAR SEALS
 LIGHTWEIGHT & DURABLE BRASS
 300 PSI MAX WORKING PRESSURE

SPANNERS

SINGLE-SIDED SPANNER WRENCH



SW1

DOUBLE-SIDED SPANNER WRENCH



SW2

WILDLAND EQUIPMENT

HOSE CLAMPS



BRASS WYE VALVE

3/4" GHT F. INLET x (2) 3/4" GHT M. OUTLETS
3/8" WATERWAY
FRONT & REAR SEATS

MODEL #	HOSE SIZE	FEATURES
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HC1510 UP TO 1 3/4" SINGLE JACKET
RIGID DESIGN, KNUCKLE GUARD, CURVED CLAMPING AREA FOR EAS AND SECURITY, BUILT IN SPANNER FOR ≤ 2.5" FITTINGS

HC-15 UP TO 1 3/4" SINGLE JACKET
BASIC WILDLAND HOSE CLAMP



HOSE COILERS

MODEL #	HOSE SIZE	MOUNT INCLUDED	FEATURES
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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

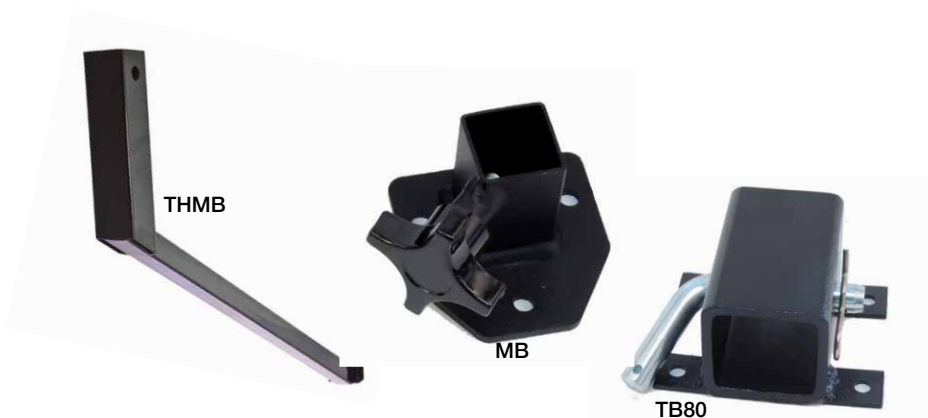
MODEL #	FOR HOSE COILER MODEL	FEATURES
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MB MC40 & MC65 SQUARE MOUNTING BRACKET CAN BE BOLTED TO ANY VERTICAL SURFACE

THMB MC40 & MC65 TRAILER HITCH MOUNTING BRACKET INSERTS INTO ANY CLAS 4 (2") HITCH RECEIVER TUBE

WLMB MC40 & MC65 WILDLAND MOUNTING BRACKET IS 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 A STURDY HORIZONTAL SURFACE (NOT INTENDED TO TOW); MUST BE USED W/ 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' (MAX 30') • 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 LB
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" F. NST OR NPSH TO 3/4" GHT ADAPTER • 3/4" GHT TO 3/8" QUICK-CONNECT ADAPTER



GENFO45



GENFO45-FT



GENFO45-QF

DRIP TORCH

THE BEST DRIP TORCH ON THE MARKET

FEATURES

- CONFORMS TO FOREST SERVICE SPECIFICATIONS (USDA FS 5100-614)
 - MEETS DOT REGULATIONS FOR TRANSPORT OF FLAMMABLE FUEL UN # 1B1-150
 - RED BODY COMPLIES WITH OSHA REGULATIONS 29 CFR 1910.114
 - 1.25 US GALLON CAPACITY
 - HEAVY-DUTY, LIGHTWEIGHT 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
- H: 14" CLOSED/25.5" ASSEMBLED, DIA. 6", WT. 4.6 LB EMPTY/16 LB FULL



DT125

ACCESSORIES & REPLACEMENT PARTS



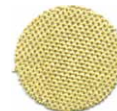
DT125-MB



DRT03
DRIP TORCH
TANK COVER



DRT0506
CHECK VALVE
BALL AND SEAT



DRT07
OUTLET SCREEN



DRT08
DISCHARGE
PLUG



DRT23
TANK COVER
LOCK RING



DRT22
TANK COLLAR
GASKET



DRT14
NOZZLE/IGNITER
MOUNT



DRT15
IGNITER



DRT11
SPOUT AND FUEL TRAP



DRT83
CHAIN ASSEMBLY



DRT35
AIR BREATHER VALVE

DT125-MB FEATURES

- 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

HIGH VIZ® CAN YOU SEE ME NOW?

ALL FORRESTRY PRODUCTS MEET OR EXCEED USDA FS 5100 SERIES SPECIFICATION



HIGH VIZ® WYE VALVES



WV1510-HIGH-VIZ

MODEL #	INLET	OUTLET	COATING	THREAD	WEIGHT
WV1010-HIGH-VIZ	1" F. SWIVEL	(2) 1" M.	POWDER-COATED HIGH-VISIBILITY YELLOW W/ RED ORALITE® REFLECTIVE DECALS	ANY COMBO (NST OR NPSH)	3 LB
WV1510-HIGH-VIZ	1.5" F. SWIVEL	(2) 1" M.			4 LB
WV15-HIGH-VIZ	1.5" F. SWIVEL	(2) 1.5" M.			4 LB

HIGH VIZ® T'S

MODEL #	THREADS F. x M. x M.
TV1510-NHHH HIGH-VIZ	1.5" NH x 1.5" NH x 1" NH
TV1510-NHNP HIGH-VIZ	1.5" NH x 1.5" NH x 1" NP
TV1510-NPNP HIGH-VIZ	1.5" NP x 1.5" NP x 1" NP



TV1510 HIGH-VIZ

FEATURES

- IN-LINE T-VALVES
 - MADE OF CAST ALUMINUM
 - POWDER COATED IN HIGH-VISIBILITY YELLOW WITH RED ORALITE® REFLECTIVE DECALS
 - NO CAP & CHAIN
- Wt: 1 LB, H: 5"

HIGH VIZ® HOSE CLAMP

FEATURES

- 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"
- BUILT-IN SPANNER FOR USE ON FITTINGS 2.5" AND SMALLER



WYE VALVES

ALL FORRESTRY PRODUCTS MEET OR EXCEED USDA FS 5100 SERIES SPECIFICATION

WYE VALVES

SMOOTH WATERWAY = LESS FRICTION

MODEL #	INLET	OUTLET	SEATS	THREAD	MATERIAL	WEIGHT
WV1010	1" F. SWIVEL	(2) 1" M.	FRONT & REAR	ANY COMBO OF NST OR NPSH	ALUMINUM	3 LB
WV1510	1.5" F. SWIVEL	(2) 1" M.	FRONT & REAR	ANY COMBO OF NST OR NPSH	ALUMINUM	4 LB
WV15	1.5" F. SWIVEL	(2) 1.5" M.	FRONT & REAR	ANY COMBO OF NST OR NPSH	ALUMINUM	4 LB
WV2510	2.5" F. SWIVEL	(2) 1" M.	FRONT & REAR	2.5" F. (NST ONLY) x 1" M. (NST OR NPSH)	ALUMINUM	5 LB
WV2515	2.5" F. SWIVEL	(2) 1.5" M.	FRONT & REAR	2.5" F. (NST ONLY) x 1.5" M. (NST OR NPSH)	ALUMINUM	5 LB
WV2515-B	2.5" F. SWIVEL	(2) 1.5" M.	FRONT ONLY	NST ONLY	BRASS	7 LB
WV2525	2.5" F. SWIVEL	(2) 2.5" M.	FRONT ONLY	NST ONLY	ALUMINUM	9 LB



WV1010



WV2510



WV2525

HYDRANT ACCESSORIES

THE STANDARD IN VALVES AND INNOVATIVE WRENCH DESIGN

HYDRANT GATES

MODEL #	INLET	OUTLET	MATERIAL	WEIGHT	FEATURES
HGV25	2.5" F. SWIVEL	2.5" M. NST	ALUMINUM	4 LB	- 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" F. SWIVEL	2.5" M. NST	BRASS	9 LB	



HGV25



HGV25-B



HW733

HYDRANT WRENCH

MODEL #	WEIGHT	FEATURES
HW733	4 LB	- 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 2.5" AND LARGER FITTINGS

BRASS BALL VALVES/STRAINERS

PREVENT ROCKS, STICKS, AND OTHER GUNK FROM ENTERING THE SUCTION HOSE LINE.

BRASS FULL PORT VALVES

MODEL #	INLET/OUTLET	WEIGHT
BFPV38	3/8" F. NPT x 3/8" F. NPT	0.3 LB
BFPV50	0.5" F. NPT x 0.5" F. NPT	0.5 LB
BFPV75	3/4" F. NPT x 3/4" F. NPT	0.7 LB
BFPV100	1" F. NPT x 1" F. NPT	1.1 LB
BFPV125	1.25" F. NPT x 1.25" F. NPT	1.6 LB
BFPV150	1.5" F. NPT x 1.5" F. NPT	2.4 LB
BFPV200	2" F. NPT x 2" F. NPT	3.5 LB
BFPV300	3" F. NPT x 3" F. NPT	10.4 LB
BFPV400	4" F. NPT x 4" F. NPT	17.5 LB



BFPV100



BFPV150



BFPV300

BRASS FOOT VALVE STRAINERS

MODEL #	INLET	CONSTRUCTION	ALL STAINLESS AVAILABLE
FV-B 1/2"	0.5" F. NPT	CAST BRASS VALVE BODY; CORROSION RESISTANT, STAINLESS STEEL SCREEN; SPRING AND LOCK NUT	No
FV-B 3/4"	3/4" F. NPT		No
FV-B 1"	1" F. NPT		YES — ORDER FV-SS 1"
FV-B 1 1/4"	1.25" F. NPT		YES — ORDER FV-SS 1"
FV-B 1 1/2"	1.5" F. NPT		YES — ORDER FV-SS 1"
FV-B 2"	2" F. NPT		No
FV-B 3"	3" F. NPT		No
FV-B 4"	4" F. NPT		No



FV-B



FV-SS

ADAPTERS, REDUCERS & CAPS

ADAPTERS/REDUCERS

IF THE ADAPTER YOU NEED ISN'T SHOWN HERE, CALL FOR AVAILABILITY.

MODEL #	INLET/OUTLET
AD75GHT1NH	3/4" F. GHT x 1" M. NST
AD75GHT1NP	3/4" F. GHT x 1" M. GHT
AD1NH75GHT	1" F. NST x 3/4" M. GHT
AD1NP75GHT	1" F. NPSH x 3/4" M. GHT
AD1NH1NP	1" F. NST x 1" M. NPSH
AD1NP1NH	1" F. NPSH x 1" M. NST
AD1NH1.5NH	1" F. NST x 1.5" M. NST
AD1NP1.5NH	1" F. NPSH x 1.5" M. NST
AD1.5NH1NH	1.5" F. NST x 1" M. NST
AD1.5NH1NP	1.5" F. NST x 1" M. NPSH
AD1.5NH75GHT	1.5" F. NST x 3/4" M. GHT
AD1.5NP75GHT	1.5" F. NPSH x 3/4" M. GHT
AD2.5NH1.5NH	2.5" F. NST x 1.5" M. NST

MODEL #	INLET/OUTLET
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 1.5" RIGID M. NST
ADS5M2.5NH	5" STORZ x 2.5" RIGID M. NST
ADFF1.5NH1.5NH	1.5" F. NST x 1.5" F. NST
ADFF2.5NH2.5NH	2.5" F. NST x 2.5" F. NST



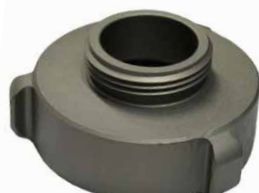
ADBIM25M

CAPS

MODEL #	SIZE/THREAD
CAP & CHAIN-1	1" F. (NST OR NPSH)
CAP & CHAIN-1.5	1.5" F. (NST OR NPSH)
CAP & CHAIN-2	2" F. (NST OR NPSH)
CAP & CHAIN-2.5	2.5" F. (NST OR NPSH)
CAP & CHAIN-4	4" F. (NST ONLY)
CAP & CHAIN-6	6" F. (NST ONLY)



AD1NH1NP



AD2.5NH1.5NH



CAP & CHAIN-6

C&S REPAIR SERVICE & REPAIR PARTS

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, CLEANING 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. REPAIR LOCATION OF VIPER NOZZLES. C&S SUPPLY ONLY WARRANTIES REPAIRS MADE BY C&S SUPPLY.



1TIP-RK

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

NOZZLE REPAIR KITS

MODEL #	DESCRIPTION	PARTS INCLUDED
VNRK-1560	REPAIR KIT FOR MODEL SG1560 & SG540	KITS INCLUDE ALL INTERNAL SEALS, SHUTOFF BALL, RUBBER BUMPER, PISTOL GRIP, SHUTOFF HANDLE, SHUTOFF HANDLE HARDWARE, LOCATER PIN, SWIVEL BEARINGS, SET PINS, SPINNING TEETH, AND O-RINGS NEEDED TO REPAIR A VIPER NOZZLE.
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	

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	



VNRK-3012

VIPER REPAIR PARTS

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	

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

PISTOL GRIP

REPLACEMENT PISTOL GRIP FOR ALL VIPER SHUTOFFS



COMPOSITE HANDLES

MODEL #	DESCRIPTION
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
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



METAL HANDLES

MODEL #	DESCRIPTION
V-HANDLE-M-3012	COMPACT AND DURABLE REPLACEMENT HANDLE ONLY FOR SMALL VIPER SHUTOFF. MODELS ENDING IN 1550, 1560, 2510, 3012, 5016, 7515, & 752
V-HANDLE-M-9520	COMPACT AND 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

FLOW DATA

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

FOAM PROPORTIONERS

MODEL #	PSI	GPM	PRESSURE LOSS	FOAM BYPASS
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%

EDUCTOR OPERATING INSTRUCTIONS FOR A SUCCESSFUL FOAM OPERATION

- OPERATING PRESSURE: 200 PSI** INLET PRESSURE SUGGESTED FOR BEST OPERATION. WE HAVE PROVIDED BASIC CALCULATIONS ONLINE. (AVERAGE PRESSURE LOSS THROUGH THE EDUCTOR IS 30 – 40%)
- BYPASS SWITCH** ARROW POINTING TOWARD THE **FOAM** POSITION 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".)
- HOSE LENGTH AFTER THE EDUCTOR:**
 - **1" HOSE:** NO MORE THAN **200'** PAST THE EDUCTOR (**30 GPM** 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
- 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.
- 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.

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

<u>C & S PRODUCTS</u>	<u>AKRON</u>	<u>ELKHART</u>	<u>TFT</u>	<u>PROTEK</u>	<u>POK</u>	<u>CRESTAR</u>
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		CF 200
TIP	4814	N/A	ME1-TO	373-TO	N/A	CF 200 TIP ONLY
CG80202.5"	4823	N/A	ME2-2VPGI	374		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						
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

THE PRICE LIST (PL) LISTS ALL PRODUCTS AND CATALOG (CAT) PAGES. IT CAN BE A GREAT REFERENCE TOOL!

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

3/4", 1", 1.5" (1 3/4"), OR 2.5"? (NOTE: 1.5" AND 1 3/4" COUPLINGS 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, SMOOTH BORE, OR SMALL BREAK-APART

IF:

SELECT GALLONAGE: WHAT FLOW RATE? AT WHAT PSI? (CAT PGS 4, 11, 13 | PL PGS 3, 4)

CONSTANT GALLONAGE: WHAT FLOW RATE? AT WHAT PSI? (CAT PG 10 | PL PG 4)

AUTOMATIC: WHAT FLOW RATE OR RANGE? AT WHAT PSI? (CALL FOR AVAILABILITY)

FOAM: WHAT FLOW RATE? (CAT PGS 9, 14, 19, 22, 29 | PL PGS 2, 5)

SMOOTH-BORE NOZZLE: WHAT ORIFICE SIZE OR FLOW RATE?

PLEASE NOTE WHICH VALVE AND VBU MODEL SHOULD GO WITH EACH SMOOTH-BORE TIP: (CAT PGS 6, 12, 17, 18, 19 | PL PGS 2, 7)

FLOW CHART

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

DO YOU WANT A BALL SHUTOFF TO BUILD A BREAK-APART NOZZLE?

STEP 1 BALL SHUTOFF

WHAT SIZE INLET ARE YOU LOOKING FOR?

1" (w/ 1" WATERWAY) WSV-1 WSV-1PG SBV10SS VB1560 VBU25	1.5" (w/ 1" WATERWAY) WSV-15 WSV-15PG SBV15SS VB3012 VBU95	1.5" (WORKS W/ 1 3/4" LINES) (w/ 1 3/8" WATERWAY) WSV-FF-15 WSV-FF-15PG VB9520NPG VB9520 VBU150	2.5 w/ 1.5" OUTLET (w/ 1 3/8" WATERWAY) WSV-FF-25 WSV-FF-25PG VB9520NPG-2.5 VB9520-2.5 VBU250
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(CAT PGS 8, 12, 18 | PL PGS 2, 6)

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 PG 7, 16 | PL PGS 2, 7)

CONSTANT-FLOW NOZZLE (CAT PG 16 | PL PGS 3, 4, 7)

SMOOTH-BORE NOZZLE (CAT PGS 6, 17 | PL PGS 2, 7)

WHAT GPM DO YOU WANT?

SEE FLOW CHART ON PREVIOUS PAGE

HOSE COILERS

(CAT PG 21 | PL PG 9)

WHAT SIZE HOSE ARE YOU GOING TO ROLL?

MC40 ROLLS 1" AND 1.5" HOSE

MC65 ROLLS 1.5" – 3" HOSE (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.



(MC65 WITH THMB)



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. LOVELAND, 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.

NOTES





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