

# Viper Industrial Series



**ST-1530-PV**



**ST-2510/5016-PV**



**ST-2510/5016-PV(2.5)**

**Black Knight**

**ST-2510/5016**



**VTE-2510**

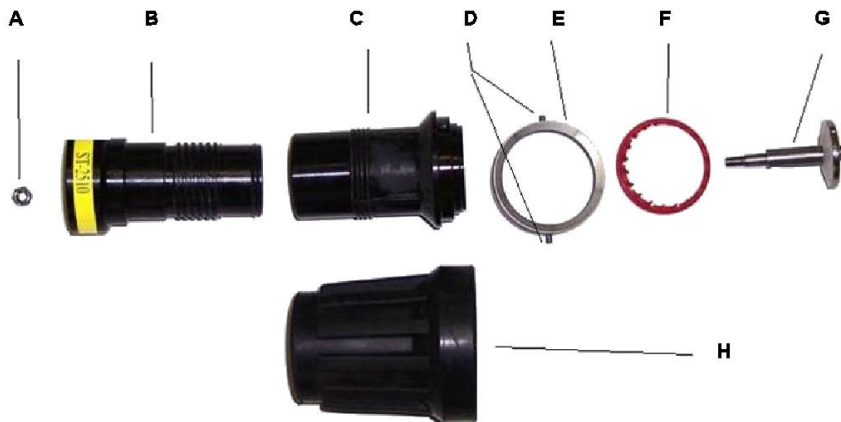


## INDUSTRIAL FLOW DATA

STYLE	NOZZLE PRESSURE (psi)	NOZZLE FLOW (gpm)	STREAM SETTING	EFFECTIVE REACH
ST-1530-PV	75	26	SS	82
		35	45° fog	20
	100	30	SS	85
		40	45° fog	21
	150	34	SS	98
		45	45° fog	24
ST-2510 (PV)	75	82	SS	108
		85	45° fog	36
	100	95	SS	118
		99	45° fog	39
	150	116	SS	128
		121	45° fog	39
ST-5016 (PV)	75	95	SS	115
		95	45° fog	36
	100	110	SS	125
		110	45° fog	39
	150	135	SS	131
		135	45° fog	43
VTE-2510/BLACKNIGHT	75	82	SS	89
		87	45° fog	36
	100	95	SS	95
		100	45° fog	36
	150	116	SS	108
		123	45° fog	39

### ST2510 AND ST5016 TIP BOM

REFERENCE	PART NAME	PART #	QUANTITY
A	LOCK NUT	V-LCKNT-IND	1
B	INNER BARREL	V-INNERBARREL-IND	1
C	OUTER BARREL	V-OUTRBRRL-IND	1
D	SET SCREW	V-SETPIN-RR-IND	2
E	RETAINER RING	V-RTNRRNG-IND	1
F	SPINNING TEETH	V-TEETH-3012	1
G	SPINDLE SHAFT	V-SPNDLSHFT-IND95	1
G*	SPINDLE SHAFT	V-SPNDLSHFT-IND125	1
H	BUMPER	V- BUMPER-IND	1



**NOTE: IF COMPOSITE TIP FAILS IT NEEDS TO BE REPLACED**



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(VALVE PORTION) VB1560 and VB3012 BOM			
REFERENCE	PART NAME	PART #	QUANTITY
1	1" GASKET	GASKET 1	1
1a	1.5" GASKET	GASKET 15	1
2	1" SWIVEL	V-1" SWIVEL	1
2a	1.5" SWIVEL	V-1.5" SWIVEL	1
3	SWIVEL O-RING	V-ORING-SW-3012	1
4	BALL	V-BALL-3012	1
5	PISTOL GRIP	V-PG15V	1
6	BALL LOCATOR (2 PIECES)	V-BALLLOC-3012	1
7			
8	PISTOL GRIP SET PIN	V-SETPIN-3012	1
9	VALVE BODY	VLVBDY-3012	1
10	SEAT RETAINER (3 PIECES)	V-SEATRTNR-3012	1
11			
12			
13	BALL ACUATOR (2 PEICES)	V-BALLACT-3012	1
14			
15	PAN HEAD COVER	V-PANHEAD-3012	1
16	SWIVEL SET PIN	V-SETPIN-3012	1
17	BALL BEARINGS	V-BEARINGS-3012	32
18	HANDLE (BAIL)	V-HANDLE-3012	1

ST2510-PV/ST5016-PV AVAILABLE KITS		
KIT#	KIT Name	PARTS CONTAINED
VNRK-IND95	VIPER NOZZLE REPAIR KIT ST2510-PV	A,D,E,F,G,H 1,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18
VNRK-IND125	VIPER NOZZLE REPAIR KIT ST5016-PV	A,D,E,F,G*,H 1,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18
VVRK-3012	Valve Repair Kit Small	1,1a,3,4,6,7,10,11,12,13,14,15,16,17,18
VBSC-3012	Ball & Seat Combo Small	4,10,11,12
V-HH5-3012	Handle Hardware Small	6,7,13,14,15
V-SWKIT3012	Swivel Kit 1" & 1.5" Small	1a,3,16,17



**PLEASE BE RESPONSIBLE!  
PLEASE BE CAREFUL!**

THE USER OF THIS EQUIPMENT IS  
PERSONALLY RESPONSIBLE FOR THE  
FOLLOWING:

1. You need to know and understand that Fire-fighting and Emergency response is dangerous and proper training is needed.
2. You need to be physically fit and skillful in the use of any equipment that you may need to use.
3. You need to know that your equipment is in proper working order.
4. You need to know carelessness or negligence may result in injury or death.

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## BALL SHUTOFF USE:

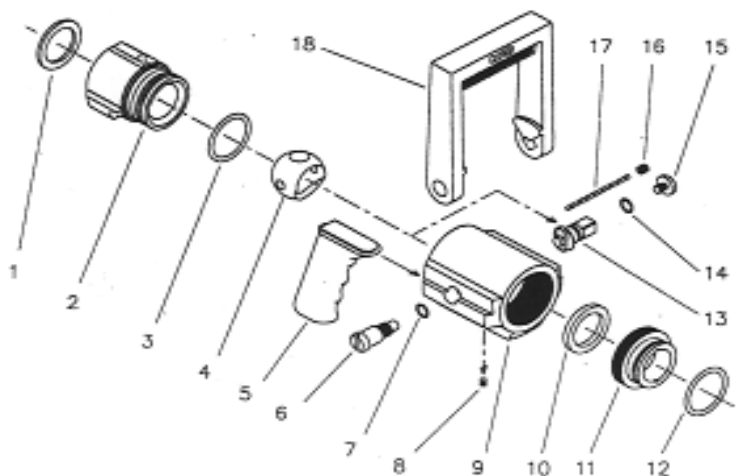
- Open and close the valve slowly to reduce risk of water hammer.
- Pull the bail handle toward the swivel to OPEN the valve.
- Push the bail handle toward the tip of the nozzle to CLOSE the valve.

## TIP USE:

- Rotate the rubber bumper on the end to select spray pattern.
- Twist the tip to the right past straight stream to shut off.
- Tip can be used independently of the ball shutoff to create a "Break-apart" nozzle (**NST MODEL ONLY**)

## Maintenance:

- Test nozzle before putting into service.
- Clean nozzle by flushing with water after use.
- Use non-detergent soap to clean dirt from the exterior to reduce wear .
- Regularly check the bail handle screws that they are tight. If taken out use medium thread locker on the threads before reassembly.
- Periodically service your nozzle or have your fire equipment dealer service it.
- Normally serviced parts are the: Ball, Seat assembly, Spinning teeth, and the handle hardware (Ball locator screw, Actuator, Pan head cover).



**(VALVE PORTION)VB9520 and VB9520-2.5 BOM**

REFERENCE	PART NAME	PART #	QUANTITY
1	1.5" GASKET	GASKET 15	1
1a	2.5" GASKET	GASKET 25	1
2	1.5" SWIVEL (LARGE)	V-1.5" SWIVEL-9520	1
2a	2.5" SWIVEL	V-2.5" SWIVEL-9520	1
3	SWIVEL O-RING	V-ORING-SW-9520	1
4	BALL	V-BALL-9520	1
5	PISTOL GRIP	V-PG15V	1
6	BALL LOCATOR (2 PIECES)	V-BALLLOC-9520	1
7			
8	PISTOL GRIP SET PIN	V-SETPIN-PG	1
9	VALVE BODY	VLVBDY-9520	1
10	SEAT RETAINER (3 PIECES)	V-SEATRTNR-9520	1
11			
12			
13	BALL ACUATOR (2 PEICES)	V-BALLACT-9520	1
14			
15	PAN HEAD COVER	V-PANHEAD-9520	1
16	SWIVEL SET PIN	V-SETPIN-9520	1
17	BALL BEARINGS	V-BEARINGS-9520	32
18	HANDLE (BAIL)	V-HANDLE-9520	1

**ST2510-PV(2.5)/ST5016-PV(2.5) AVAILABLE KITS**

KIT#	KIT Name	PARTS CONTAINED
VNRK-IND95(2.5)	VIPER NOZZLE REPAIR KIT ST2510-PV(2.5)	A,D,E,F,G,H 1a,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18
VNRK-IND125(2.5)	VIPER NOZZLE REPAIR KIT ST5016-PV(2.5)	A,D,E,F,G*,H 1a,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18
VVRK-9520	Valve Repair Kit Large	1,1a,3,4,6,7,10,11,12,13,14,15,16,17,18
VBSC-9520	Ball & Seat Combo Large	4,10,11,12
V-HH5-9520	Handle Hardware Large	6,7,13,14,15
V-SWKIT9520	Swivel Kit 1.5" & 2.5" Large	1,1a,3,16,17



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**BALL SHUTOFF USE:**

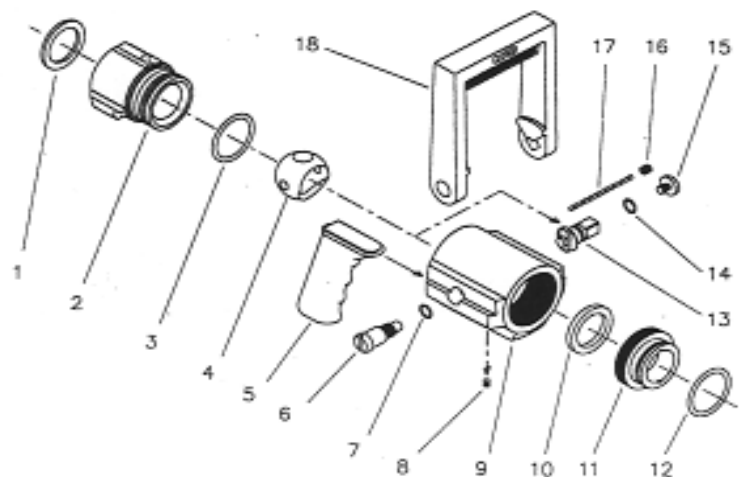
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