

# National Fire Equipment Ltd.

### **VIPER FOAM SERIES**

### Swivel :

- NST or NPSH for PVB models
- NST only for BYPP
  models

### Weights:

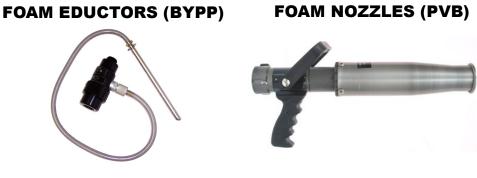
- BYPP's: 1.75lbs
- PVB1550: 3lbs
- PVB3012: 3.5lbs
- PVB7515: 3.5lbs
- PVB9520: 3.5lbs
- CEP1560: 1lb
- CEP3012: 2lbs

### Lengths:

- BYPP1560: 7"
- BYPP3012: 6"
- BYPP7515: 6"
- PVB1560: 15.5"
- PVB3012: 18.5"
- PVB7515: 18.5"
- CEP1560: 12"
- CEP3012: 16.25"

#### Made of extruded E-Lite alloy & Hard anodized

All Viper models are individually tested



### FOAM NOZZLES FLOW DATA

STYLE	NOZZLE PRES- SURE (psi)	NOZZLE FLOW (gpm)	EXPANSION RATE	EFFECTIVE REACH
PVB1560	75	30	10:1	30
	100	35	10:1	36
PVB3012	75	60	12:1	39
FVDJUIZ	100	69	12:1	46
PVB7515	75	95	9:1	46
	100	110	9:1	56

### FOAM PROPORTIONER FLOW DATA

STYLE	PRESSURE (psi)	FLOW (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%
DTFP9520	150	130	30%	15%

### FOAM TUBES (CEP)

CEP FOAM TUBES ATTACH TO VIPER NOZZLES



CEP1560 ATTACHES TO VIPER MODELS: -SG540, SG1560 -BD550, BD1560 CEP3012 ATTACHES TO VIPER MODELS: -SG3012,SG7515, SG9520 -CG2510,CG5016, CG8020 -FT2510, FT5016, FT8020

## **REPAIR PARTS LIST**

	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 7	BALL LOCATOR (2 PIECES)	V-BALLLOC-3012	1			
8	PISTOL GRIP SET PIN	V-SETPIN-3012	1			
9	VALVE BODY	VLVBDY-3012	1			
10 11 12	SEAT RETAINER (3 PIECES)	V-SEATRTNR-3012	1			
13 14	BALL ACUATOR (2 PEICES)	V-BALLACT-3012	1			
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			

VB1560 and VB3012 AVAILABLE KITS				
KIT#	KIT Name	PARTS CONTAINED		
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	1,1a,3,16,17		

### **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.

#### **EDUCTOR USE:**

- These work under the "Ventury principle" and need at least 75psi to operate.

- Note: there are separate attachments to meter foam concentrate 3%

and 6% come standard 1% and 2% optional. These screw on between the eductor body and the eductor hose, each is marked.

- There is a bypass switch on the body of the eductor that controls whether water or foam is being flowed.
- Any nozzle used needs to flow at least the rated flow of the eductor. It is suggested to have a nozzle that is capable of 30% more.

#### 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 Firefighting 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

