

*Viper Fire Supression from TIPSA*

# *Viper*™ *Bore*

*The nozzles that get you to the seat of the fire*

*Always on the front line of fire*





# Viper<sup>TM</sup> Bore

The nozzles that get you to the seat of the fire



Lightweight Hard Coat Anodized Aluminum

Several Nozzle Tip Sizes and Orifices Available

Concentrated Water Flow even when using Lower Pressures

Include the Viper Ball Valve With Dual Seat & Dual Driven Shaft for Superior Firefighting Solutions



## Service and Maintenance:

The VIPER<sup>®</sup> Bore Nozzles require minimal maintenance during operation provided the unit is regularly flushed with clean water after being used with contaminated water. Service kits are also available.


A VIPER<sup>®</sup> Bore Nozzle is the perfect combination of a VIPER<sup>®</sup> Bore Tip and a VIPER<sup>®</sup> Shut Off.



## Viper<sup>TM</sup> Bore Tip Flow Discharge at different Pressures:

Bore Size		Water Flow Discharge							
		at 3,4 bar - 50 psi		at 5,2 bar - 75 psi		at 5,5 Bar - 80 psi		at 6,9 Bar - 100 psi	
mm	inch	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm
9.5	3/8"	114	30	136	36	140	37	159	42
12.7	1/2"	200	53	242	64	250	66	280	74
15.9	5/8"	310	82	382	101	394	104	439	116
19.1	3/4"	447	118	549	145	564	149	632	167
22.2	7/8"	609	161	746	197	768	203	859	227
23.8	15/16"	700	185	856	226	886	234	988	261
25.4	1"	795	210	973	257	1,007	266	1,124	297
27.0	1 1/16"	897	237	1,098	290	1,136	300	1,268	335
28.6	1 1/8"	1,007	266	1,234	326	1,272	336	1,423	376
31.8	1 1/4"	1,242	328	1,522	402	1,571	415	1,756	464

**Viper<sup>TM</sup> Bore Tip Flow Markings:** Flow markings on the VIPER<sup>®</sup> Bore Tip are laser engraved onto hard anodized aluminum that are easy to read and will not fade.

VIPER Bore Tip	Type	Reference	Bore Size (Orifice)		Length		Inlet	
			mm	inch	cm	inch	mm	inch
	Adapter Bore	I218647	23.8	15/16"	7.0	2 3/4"	38	1 1/2"
			23.8	15/16"	7.0	2 3/4"		
	Plain Tip	I218674	9.5	3/8"	11.0	4 1/3"	25	1"
		I218675	12.7	1/2"	11.0	4 1/3"	25	1"
		I218646	15.9	5/8"	11.0	4 1/3"	25	1"
		I218677	15.9	5/8"	9.5	3 3/4"	38	1 1/2"
		I218676	19.1	3/4"	9.5	3 3/4"	38	1 1/2"
		I218649	22.2	7/8"	9.5	3 3/4"	38	1 1/2"
		I218678	23.8	15/16"	9.5	3 3/4"	38	1 1/2"
	Smooth Bore Tip	I218673	31.8	1 1/4"	12.7	5"	38	1 1/2"
		I218668	19.1	3/4"	12.7	5"	38	1 1/2"
		I218669	22.2	7/8"	12.7	5"	38	1 1/2"
		I218670	23.8	15/16"	12.7	5"	38	1 1/2"
		I218671	25.4	1"	12.7	5"	38	1 1/2"
		I218672	27.0	1 1/16"	12.7	5"	38	1 1/2"
		I218644	28.6	1 1/8"	12.7	5"	38	1 1/2"
	Dual Stacked Tip	I218691	23.8 & 12.7	15/16" & 1/2"	16.5	6 1/2"	38	1 1/2"

All VIPER<sup>®</sup> Bore Tip models are with NH inlet thread

## Viper<sup>®</sup> Bore Shut Off



### Viper<sup>®</sup> Bore Shut Off Inlet Options:

The VIPER<sup>®</sup> Shut Off are available with the following standard threads:

- NST/NH Female
- NPSH/IPT Female
- BSP Female

The VIPER<sup>®</sup> Shut Off are available upon request with the following couplings: STORZ, BARCELONA UNE 23400, DSP/GUILLEMIN, UNI, NOR and GOST.

Full-time swivel inlet.

### Viper<sup>®</sup> Bore Shut Off construction:

The VIPER<sup>®</sup> Shut Off has a dual seat and dual driven shaft to offer better performance against water hammer and to enhance its durability. The VIPER<sup>®</sup> Shut Off is a low maintenance product with a highly engineered polymer resin or stainless steel ball valve operated through an OPEN/ CLOSE handle. The operation is smooth and constant allowing firefighters to open and close the valve easily.



### Viper<sup>®</sup> Bore Shut Off Lot Number:

Each VIPER<sup>®</sup> Shut Off is marked with a lot number for ease of tracking.




### Viper<sup>®</sup> Bore Shut Off Stainless Steel:

A stainless steel screen is mounted within the inlet to prevent materials from entering the nozzle to reduce the risk of damage or failure during operation. The shut offs can be ordered without stainless steel inlet screen.

## Viper<sup>®</sup> Bore Shut Off Models with Pistol Grip:

VIPER Shut Off (with Pistol grip)	Reference	Bore Size (Orifice)		Waterway Size	Thread	Inlet Female - Outlet Male		Weight	
		mm	inch	inch		mm	inch	kg	lbs
	I218220	25.4	1"	1"	NH	25 - 25	1" - 1"	0.98	2.16
	I218251	25.4	1"	1"	NH	38 - 38	1 1/2" - 1" 1/2"	1.04	2.30
	I218222	25.4	1"	1"	NPSH	25 - 25	1" - 1"	0.98	2.16
	I218223	25.4	1"	1"	NPSH	38 - 38	1 1/2" - 1" 1/2"	1.04	2.30
	I230023	25.4	1"	1 3/8"	NH	38 - 38	1 1/2" - 1" 1/2"	1.53	3.38
	I230024	22.2	7/8"	1 3/8"	NH	38 - 38	1 1/2" - 1" 1/2"	1.53	3.38
	I230025	23.8	15/16"	1 3/8"	NH	38 - 38	1 1/2" - 1" 1/2"	1.53	3.38
	I230058	25.4	1"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	1.74	3.84
	I230059	22.2	7/8"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	1.74	3.84
	I230060	23.8	15/16"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	1.74	3.84

## Viper<sup>®</sup> Bore Shut Off (without Pistol grip)

VIPER Shut Off (without Pistol grip)	Reference	Bore Size (Orifice)		Waterway Size	Thread	Inlet Female - Outlet Male		Weight	
		mm	inch	inch		mm	inch	kg	lbs
	I230021	25.4	1"	1"	NH	25 - 25	1" - 1"	0.88	1.93
	I230022	25.4	1"	1"	NH	38 - 38	1 1/2" - 1" 1/2"	0.94	2.07
	I230035	25.4	1"	1 3/8"	NH	38 - 38	1 1/2" - 1" 1/2"	1.43	3.14
	I230036	22.2	7/8"	1 3/8"	NH	38 - 38	1 1/2" - 1" 1/2"	1.43	3.14
	I230037	23.8	15/16"	1 3/8"	NH	38 - 38	1 1/2" - 1" 1/2"	1.43	3.14
	I230061	25.4	1"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	1.64	3.62
	I230062	22.2	7/8"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	1.64	3.62
	I230063	23.8	15/16"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	1.64	3.62
	I211325	35	1 3/8"	1 3/8"	NH	64-38	2 1/2" - 1" 1/2"	2.82	6.22

TIPSA reserves the right to modify any specification without prior notice to meet or exceed changing standards. Special construction characteristics can be produced upon special request. Contact your local dealer or TIPSA at: [tipsaex@tipsa.com](mailto:tipsaex@tipsa.com)