

The Nozzles That Get You to the Seat of the Fire



Viper® BORE NOZZLE

Viper fire suppression from Kuriyama Fire Products.

General Applications:

The VIPER® Bore Nozzle is the combination of a VIPER® Bore Tip and a VIPER® Shut-Off for effective fire suppression.

Construction:

- Lightweight hard coat anodized aluminum

Features and Advantages:

- Combine with the Viper Ball Valve with Dual Seat and Dual Driven Shaft for superior firefighting solutions.
- Concentrated water flow while using lower pressures.
- Several sizes and orifices available.
- Select the nozzle tip size to meet your individual needs.

Viper® BORE TIP

Provide Flow Discharge at Different Pressures

Construction:

- All VIPER® Bore Tip models use standard NH inlet threads.

Features and Advantages:

- **VIPER® Bore Tip Flow Markings** - Flow markings on the VIPER® Bore Tip are laser engraved onto hard coat anodized aluminum that are easy to read and will not fade.

Approvals and Standards – The VIPER® Bore Tip is National Fire Protection Association (NFPA) 1964 compliant and is manufactured in an ISO 9001 accredited facility. European Standards (EN) 15182-1 and EN15182-2 type 3 Certificates are available by request.

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Service and Maintenance:

The VIPER® 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.



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Viper® BORE TIP

VIPER® Bore Tip Flow Discharge at Different Pressures:

Bore Size (in)	Water Flow Discharge							
	at 50 psi (3.4 bar)		at 75 psi (5.2 bar)		at 80 psi (5.5 bar)		at 100 psi (6.9 bar)	
	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm
3/8	30	114	36	136	37	140	42	159
1/2	53	200	64	242	66	250	74	280
5/8	82	310	101	382	104	394	116	439
3/4	118	447	145	549	149	564	167	632
7/8	161	609	197	746	203	768	227	859
15/16	185	700	226	856	234	886	261	988
1	210	795	257	973	266	1,007	297	1,124
1 1/16	237	897	290	1,098	300	1,136	335	1,268
1 1/8	266	1,007	326	1,234	336	1,272	376	1,423
1 1/4	328	1,242	402	1,522	415	1,571	464	1,756



Part Number	Type	Inlet (in)	Bore Size (Orifice)		Length		Weight (each)	
			(in)	(mm)	(in)	(mm)	(lbs)	(kg)
I218647	Adapter Bore	1 1/2 x 1 1/2	15/16	23.8	2 3/4	7.0	0.85	0.39
I218674	Plain Tip	1	3/8	9.5	4 1/3	11.0	0.50	0.23
I218675		1	1/2	12.7	4 1/3	11.0	0.50	0.23
I218646		1	5/8	15.9	4 1/3	11.0	0.50	0.23
I218677		1 1/2	5/8	15.9	3 3/4	9.5	0.60	0.27
I218676		1 1/2	3/4	19.1	3 3/4	9.5	0.60	0.27
I218649		1 1/2	7/8	22.2	3 3/4	9.5	0.60	0.27
I218678		1 1/2	15/16	23.8	3 3/4	9.5	0.60	0.27
I218668		1 1/2	3/4	19.1	5	12.7	0.80	0.36
I218669	1 1/2	7/8	22.2	5	12.7	0.80	0.36	
I218670	Smooth Bore Tip	1 1/2	15/16	23.8	5	12.7	0.80	0.36
I218671		1 1/2	1	25.4	5	12.7	0.80	0.36
I218672		1 1/2	1 1/16	27.0	5	12.7	0.80	0.36
I218644		1 1/2	1 1/8	28.6	5	12.7	0.80	0.36
I218673		1 1/2	1 1/4	31.8	5	12.7	0.80	0.36
I218691	Dual Stacked Tip	1 1/2	15/16 & 1/2	23.8 & 12.7	6 1/2	16.5	0.70	0.27

The Nozzles That Get You to the Seat of the Fire

Viper® SHUT OFF

General Applications:

The VIPER® Shut-Off can be used with any VIPER® Bore Tip for effective fire suppression

Construction:

- The VIPER® Shut-Off has a dual seat and dual driven shaft to offer better performance against water hammer and to enhance its durability.
- The VIPER® Shut-Off is a low maintenance product with a highly engineered polymer resin or stainless steel ball valve operated through an OPEN/CLOSE handle.

Features and Advantages:

- **The VIPER® Shut-Off** - The operation is smooth and constant allowing firefighters to open and close the valve easily.
- **VIPER® Shut-Off Stainless Steel Inlet Screen** - 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.
- **VIPER® Shut-Off Inlet Options** - The VIPER® Shut-Off are available with the following standard threads: NST/NH Female, NPSH/IPT Female, and BSP Female.
- **Swivel inlets** – Full-time swivel inlets are provided.
- **VIPER® Shut-Off Lot Number** - Each VIPER® Shut-Off is marked with a lot number for ease of tracking.

Approvals and Standards – The VIPER® Shut Off is National Fire Protection Association (NFPA) 1964 compliant and is manufactured in an ISO 9001 accredited facility. European Standards (EN) 15182-1 and EN15182-2 type 3 Certificates are available by request.



The Nozzles That Get You to the Seat of the Fire

Viper® SHUT OFF

VIPER® Shut Off (with Pistol Grip) Dual Seat

Nozzle Part Number	Shutoff Model Number	Inlet Female – Outlet Male		Thread	Bore Size (Orifice)		Waterway Size (in)	Weight (each)	
		(in)	(mm)		(in)	(mm)		(lbs)	(kg)
I218220	BD1560	1 - 1	25 - 25	NH	1	25.4	1	2.16	0.98
I218222	BD1560	1 - 1	25 - 25	NPSH	1	25.4	1	2.16	0.98
I218251	BD3012	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1	2.30	1.04
I218223	BD3012	1 1/2 - 1 1/2	38 - 38	NPSH	1	25.4	1	2.30	1.04
I230023	VSB70	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1 3/8	3.38	1.53
I230024	VSB70	1 1/2 - 1 1/2	38 - 38	NH	7/8	22.2	1 3/8	3.38	1.53
I230025	VSB70	1 1/2 - 1 1/2	38 - 38	NH	15/16	23.8	1 3/8	3.38	1.53

VIPER® Shut Off (without Pistol Grip) Dual Seat

Nozzle Part Number	Shutoff Model Number	Inlet Female – Outlet Male		Thread	Bore Size (Orifice)		Waterway Size (in)	Weight (each)	
		(in)	(mm)		(in)	(mm)		(lbs)	(kg)
I230021	BD1560	1 - 1	25 - 25	NH	1	25.4	1	2.00	0.90
I230022	BD3012	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1	2.10	0.95
I230035	VSB70	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1 3/8	2.90	1.32
I230036	VSB70	1 1/2 - 1 1/2	38 - 38	NH	7/8	22.2	1 3/8	2.90	1.32
I230037	VSB70	1 1/2 - 1 1/2	38 - 38	NH	15/16	23.8	1 3/8	3.00	1.36
I230097	VSB70	2 1/2 - 1 1/2	63.5 - 38	NH	1 1/8	28.6	1 3/8	3.00	1.36
I230098	VSB70	2 1/2 - 1 1/2	63.5 - 38	NH	1 3/8	34.9	1 3/8	3.00	1.36



ADAPTER BORE



PLAIN TIP



SMOOTH BORE TIP



DUAL STACKED TIP

The Nozzles That Get You to the Seat of the Fire

Viper® SHUT OFF

VIPER® Shut Off (with Pistol Grip) Single Seat

Nozzle Part Number	Shutoff Model Number	Inlet Female – Outlet Male		Thread	Bore Size (Orifice)		Waterway Size (in)	Weight (each)	
		(in)	(mm)		(in)	(cm)		(lbs)	(kg)
I210561	VB1560	1 - 1	25 - 25	NH	1	25.4	1	2.16	0.98
I210562	VB1560	1 - 1	25 - 25	NPSH	1	25.4	1	2.16	2.16
I210564	VB3012	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1	2.30	1.04
I210565	VB3012	1 1/2 - 1 1/2	38 - 38	NPSH	1	25.4	1	2.30	1.04
I211275	VB3012	1 1/2 - 1 1/2	38 - 38	NPSH X NH	1	25.4	1 3/8	3.38	1.53
I210569	VB9520	1 1/2 - 1 1/2	38 - 38	NH	3/8	25.4	1 3/8	3.70	1.68
I217924	VB9520	1 1/2 - 1 1/2	38 - 38	NPSH X NPSH	1	25.4	1 3/8	3.70	1.68
I210570	VB9520	2 1/2 - 1 1/2	63.5 - 38	NH	1	25.4	1 3/8	4.10	1.86
I219919	VB9520	1 1/2 - 1 1/2	38 - 38	NH	7/8	22.2	1 3/8	4.20	1.91
I219918	VB9520	1 1/2 - 1 1/2	38 - 38	NH	15/16	23.8	1 3/8	4.20	1.91
I219917	VB9520	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1 3/8	4.20	1.91

VIPER® Shut Off (without Pistol Grip) Single Seat

Nozzle Part Number	Shutoff Model Number	Inlet Female – Outlet Male		Thread	Bore Size (Orifice)		Waterway Size (in)	Weight (each)	
		(in)	(mm)		(in)	(mm)		(lbs)	(kg)
I211216	VB1560	1 - 1	25 - 25	NH	1	25.4	1	1.70	0.77
I211355	VB1560	1 - 1	25 - 25	NH	1	25.4	1	1.70	0.77
I210566	VB3012	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1	1.80	0.82
I210595	VB3012	1 1/2 - 1 1/2	38 - 38	NH	1	25.4	1	1.80	0.82

VIPER® Shut Off Playpipe Single Seat

Nozzle Part Number	Shutoff Model Number	Inlet Female – Outlet Male		Thread	Bore Size (Orifice)		Waterway Size (in)	Weight (each)	
		(in)	(mm)		(in)	(mm)		(lbs)	(kg)
I211325	PLAYPIPE	2 1/2 - 1 1/2	63.5 - 38	NH	1 9/16	38.1	1 1/2	6.30	2.86