



# YAMAHA® 1.8L 4V WATERCRAFT 2008-'23

October 30, 2025



## Valve Spring Kit • High Performance Lightweight Racing

	KPMI P/N	Type	Max Valve Lift		Installed Height		Seat Pressure		Open Pressure		@ Lift
	80-81000	Intake	.425"		1.375"		85#		221#		.425"
		Exhaust									
Kit Includes			16	Titanium Retainers		16	CrSi Valve Springs		16	H. T. Steel Basewashers	

	KPMI P/N	Type	Max Valve Lift		Installed Height		Seat Pressure		Open Pressure		@ Lift
	80-81600	Intake	.425"		1.375"		85#		221#		.425"
		Exhaust									
Kit Includes			16	H.T. Steel Retainers		16	CrSi Valve Springs		16	H. T. Steel Basewashers	

- Spring Kit is designed with increased spring rate and higher lift compatibility over the stock components
- Spring Kit is specifically designed for high boost / high RPM applications
- CNC'd Titanium or H.T. Steel Retainers and Cr-Si dual springs provide valvetrain control at high RPM with high performance camshaft compatibility

## Valves • White Diamond® • Stainless • Inconel®

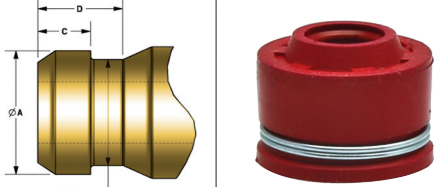
	KPMI P/N	Type	Head Diameter		Stem Diameter	Tulip	O. L.	Remarks
	80-81012H	Intake	34.00mm	1.339"	0.2159"	15°	3.560"	Standard (Stainless)
	*80-81016K	Exhaust	29.00mm	1.142"	0.2154"	25°	3.535"	Standard (Inconel®)

\*Inconel® is classified as a "Super Alloy", meaning that it is designed to survive under the most extreme temperatures and pressures, where other valves will begin to burn, corrode, or completely fail. This is the material of choice for high output engines running turbos, superchargers, nitromethane, or nitrous.

## Valve Guides • C630 Bronze

	A	B	C	D	E	F	G	Intake	Exhaust
	0.435"	0.495"	0.730"	1.020"	0.475"	0.2154"	0.3774" / Std.	80-81020	
							+0.001"	80-81021	
							+0.002"	80-81022	
							+0.010"	80-81029	

## Valve Guide Seals • Viton®

Stem Diameter	O.L	Seal O.D.	Seal Style	Designed for these guide specs				Type
6.0mm	0.333"	0.455"	2	A	B	C	D	Intake
				0.365"±0.002"	0.325"	0.120"	0.235"	Exhaust
			Part Number		Quantity		Quantity Incentive	
			71040-4		Pkg. of 4		0%	
			71040-8		Pkg. of 8		0%	
			71040-16		Pkg. of 16		Less- 10%	
			71040-50		Pkg. of 50		Less- 15%	
			71040-100		Pkg. of 100		Less- 20%	

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## Manufacturing Valvetrain For 85-Years & 2-Generations

### Retail Price List

KPMI P/N	Description	Retail
80-81000	Racing Spring Kit, Titanium, 0.425 Lift	\$744.12
80-81600	Racing Spring Kit, HT Steel, 0.425 Lift	\$424.83
80-81012H	Valve, White Diamond®, Intake	\$54.10
80-81016K	Valve, White Diamond® Inconel, Exhaust	\$75.37
80-81020	Guide, C630, Intake / Exhaust Std.	\$19.83
80-81021	Guide, C630, Intake / Exhaust +0.001	\$19.83
80-81022	Guide, C630, Intake / Exhaust +0.002	\$19.83
80-81029	Guide, C630, Intake / Exhaust +0.010	\$19.83
71040-4	Seal, Red Viton, 5.5mm Stem X 0.365" Guide(Pkg. of 4)	\$13.96
71040-8	Seal, Red Viton, 5.5mm Stem X 0.365" Guide(Pkg. of 8)	\$27.92
71040-16	Seal, Red Viton, 5.5mm Stem X 0.365" Guide(Pkg. of 16)	\$50.25
71040-50	Seal, Red Viton, 5.5mm Stem X 0.365" Guide(Pkg. of 50)	\$148.33
71040-100	Seal, Red Viton, 5.5mm Stem X 0.365" Guide(Pkg. of 100)	\$279.21

Contact a KPMI® Sales Representative Today!  
**650-557-2046, Ext. 802**

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