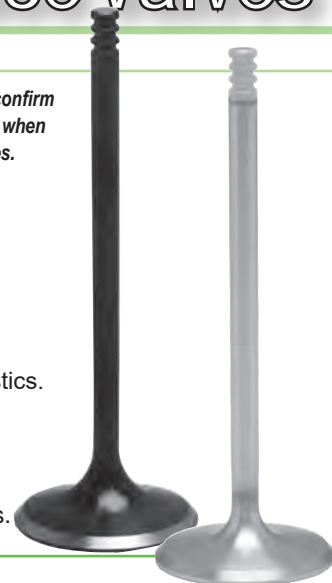


High Performance Valves



tech tips Always check and confirm running clearances when installing new valves.
from the techxperts™



Black Diamond™ & White Diamond® Valves for Harley-Davidson® Engines

- **Light and strong with optimum airflow** A combination of stress analysis and flow bench testing for optimally balanced valve mass, strength and airflow characteristics.
- **Black Diamond™ Valves** One piece forged stainless steel valves impregnated by a special German process to improve wear properties and reduce friction. Provides resistance to corrosion and superior wear.
- **Chrome Diamond® Valves** One piece forged with White Diamond® hard chrome stems. Inconel® 751 exhaust valves are designed to perform even in the most extreme conditions. Flow bench tested to optimize intake and exhaust profiles.

Application	Type	Head Diameter	Stem Diameter	Tulip Radius	Tulip Angle	Overall Length	Order No.	Supersedes
Milwaukee-Eight	Intake	1.571" (39.90mm)	0.2347"	0.235"	10°	4.015"	20-21012H	20-21012
	Intake	1.614" (41.00mm)	0.2347"	0.235"	15°	4.035"	20-21060H	-----
	Intake	1.630" (41.40mm)	0.2347"	0.235"	10°	4.055"	20-21009H	20-21009
	Intake	1.654" (42.01mm)	0.2347"	0.235"	15°	4.032"	20-21061H	20-21014
	Exhaust	1.264" (32.11mm)	0.2342"	0.460"	24°	4.050"	20-21016H	20-21016
	Exhaust	1.284" (32.61mm)	0.2342"	0.460"	24°	4.050"	20-21017H	20-21017
Pan Head 1948-1965 Black Diamond™	Intake	1.750" (44.45mm)	0.3765"	0.234"	23°	3.800"	20-4257	-----
	Exhaust	1.750" (44.45mm)	0.3760"	0.234"	29°	3.820"	20-4195	-----
Sportster 1970-1983	Intake	1.935" (49.15mm)	0.3090"	0.256"	23°	3.620"	20-4196	HEV-5
	Intake	1.950" (49.53mm)	0.3090"	0.256"	23°	3.690"	20-4167	-----
	Exhaust	1.570" (39.88mm)	0.3384"	0.236"	29°	3.512"	20-4197	HEV-3
Shovelhead 74" & 80" 1966-1983	Intake	1.950" (49.53mm)	0.3765"	0.234"	23°	3.885"	20-4194	HEV-9
	Intake	2.000" (50.80mm)	0.3765"	0.234"	23°	3.885"	20-4256	-----
Shovelhead 74" & 80" 66-83 "Fat Stem"	Exhaust	1.750" (44.45mm)	0.3760"	0.234"	29°	3.810"	20-4195	HEV-7
	Intake	1.950" (49.53mm)	0.3780"	0.234"	23°	3.885"	20-4294	-----
Evolution 1984-1999	Exhaust	1.750" (44.45mm)	0.3775"	0.234"	29°	3.810"	20-4295	-----
	Intake	1.840" (46.74mm)	0.3100"	0.236"	23°	4.445"	20-4171	-----
	Intake	1.940" (49.28mm)	0.3108"	0.675"	25°	4.440"	20-20910	HBV-1940
	Intake	1.900" (48.26mm)	0.3108"	0.675"	25°	4.440"	20-20915	HBV-1900
	Intake (Racing)	1.900" (48.26mm)	0.3100"	0.344"	28°	4.420"	20-4171R	HBV-1900S
	Intake	2.150" (54.61mm)	0.3108"	0.550"	24°	4.480"	20-20900	HCV-2150
	Exhaust	1.615" (41.02mm)	0.3096"	0.236"	29°	4.525"	20-4170	HEV-10
	Exhaust (Racing)	1.630" (41.40mm)	0.3096"	0.500"	40°	4.525"	20-4170R	-----
	Exhaust	1.650" (41.91mm)	0.3106"	0.750"	25°	4.515"	20-20920	HBV-1650
	Exhaust	1.610" (40.89mm)	0.3106"	0.750"	25°	4.510"	20-20925	HBV-1610D
	Exhaust	1.585" (40.26mm)	0.3106"	0.750"	25°	4.505"	20-20930	HBV-1585
	Evo Sportster 883 to 1200cc	Intake	1.715" (43.56mm)	0.3100"	0.236"	23°	4.550"	20-2010
Exhaust		1.480" (37.59mm)	0.3096"	0.500"	40°	4.625"	20-2012	-----
Twin Cam 88"-103" 2005-2017	Intake	1.805" (45.85mm)	0.2760"	0.413"	1.700°R	4.420"	20-20322	HBV-1810-7TG
	Intake	1.900" (48.26mm)	0.2760"	0.344"	28°	4.420"	20-20323R	-----
	Exhaust	1.575" (40.00mm)	0.2755"	0.354"	22°	4.520"	20-20325	-----
	Exhaust	1.630" (41.40mm)	0.2755"	0.500"	34°	4.520"	20-20326R	-----
Buell® XB9™ 2003-2007	Intake	1.805" (45.85mm)	0.2760"	0.344"	28°	4.525"	20-20260	-----
	Intake	1.900" (48.26mm)	0.2760"	0.344"	28°	4.500"	20-20262	-----
Twin Cam, Sportster & Buell®	Intake	1.980" (50.29mm)	0.2757"	0.290"	23°	4.455"	20-20935	HBV-1980-7TG
	Intake	1.900" (48.26mm)	0.2757"	0.475"	24°	4.445"	20-20940	HBV-1900-7TG
Triple Groove	Exhaust	1.610" (40.89mm)	0.2755"	0.595"	25°	4.545"	20-20945	HBV-1610-7TG
	Exhaust	1.575" (40.05mm)	0.2755"	0.595"	25°	4.560"	20-20950	HBV-1575-7TG
Evo, Big Twin & Twin Cam	Intake	2.020" (51.31mm)	0.3108"	0.670"	25°	4.440"	20-20990	HBV-2020A
	Exhaust	1.700" (43.18mm)	0.3106"	0.600"	25°	4.535"	20-20960	HBV-1700A
S&S®, Screaming Eagle & Ultima®	Intake	2.020" (51.31mm)	0.3108"	0.645"	25°	4.510"	20-20965	HBV-2020S
SE® / JIMS®	Exhaust	1.610" (40.89mm)	0.3106"	0.750"	25°	4.565"	20-20970	HBV-1610S
	Exhaust	2.100" (53.34mm)	0.3108"	0.560"	24°	4.475"	20-20955	HBV-2100
Blank Valves	Black	2.100" (53.34mm)	0.3108"	-----	24°	5.700"	20-20980	HBV-1700BC
	Chrome	2.200" (55.88mm)	0.3108"	-----	25°	5.700"	20-20975	HCV-2200BC
Ready to machine	Black	2.100" (53.34mm)	0.3108"	-----	24°	5.700"	20-20980	HBV-1700BC
Ready to machine	Chrome	2.200" (55.88mm)	0.3108"	-----	25°	5.700"	20-20975	HCV-2200BC

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