

### WHY HAYES TM



#### POWER PERFECTED

At Hayes™ Brakes we believe that reaching a level of braking perfection requires an ongoing process that never ends. Since our first bicycle disc brake, created in 1972, we have continued this quest for perfection with every brake we have developed along the way. While we see our current Dominion line of brakes as perfected, our journey is never over. Using three main ingredients; our Heritage, our Engineering, and our ability to Re-Think everything we know about brakes shaped our way to perfection.

#### HERITAGE

Hayes™ has been manufacturing brakes since the 1950s. Over the past 70+ years, we have accumulated brake design experience for bicycles, motorcycles, ATVs, UTVs, side by sides, snowmobiles, military vehicles, construction equipment, agricultural equipment, and turf care equipment. During this period, we generated over 100 patents in the USA and many more on a global level.



#### ENGINEERED

Hayes is an engineering powerhouse. Benefiting from cross-departmental synergy, we can adapt technologies such as our Two-Stroke-Dual-Port-Bleeding from our Power Sports division and incorporate it with our cycling brakes. Another example comes from our breadth of bicycle brands. Our silky-smooth lever feel is provided by a glide ring on our master-cylinder piston. The idea to include this glide ring was derived from our suspension technology within our brand Manitou".

#### RE-THINK

Re-thinking has always been an integral part of our design process and from time to time a comprehensive rethinking approach is needed to reset yourself on your way to perfection. It was back in 2015 when we went back to zero, cleaned our desks, and started over again asking ourselves the similar questions we asked way back when we created the first Hayes mountain bike brake. How do riders actually use their brakes, what are the ergonomic requirements, and what characteristics do high-end bicycle brakes need to fulfill the terrain and speeds of current riding styles?



# **HAYES™ TECHNOLOGY**

#### LIFETIME LEAKPROOF WARRANTY

At Hayes", we are so confident in the durability of all hydraulic Hayes Disc Brakes that we are offering a conditional Lifetime Leakproof Warranty covering the master cylinder assembly and the caliper.

#### LOFI

Low effort system with predictable, progressive ramp up and a crisp bite point.

#### 2 STROKE BLEED SYSTEM

Dual Port Bleed System for maximum bleed integrity on 2 and 4-piston Dominions.

#### STABLE RATE LINK

Our Stable Rate Link delivers a consistent lever ratio regardless of reach.

#### DOT 5.1

Hayes Dominion uses DOT 5.1 for its highest wet boiling point and dry boiling point of all bicycle brake fluids.DOT 5.1 is viscosity-stable across operating temperature ranges.

### CROSSHAIR TM ALIGNMENT

Allows mechanics and users to quickly and accurately set brake calipers. One inherent problem all disc brakes from any manufacturer is ease of setup. Hayes recognized that a solution could once again revolutionize. Crosshair Alignment Technology takes the guesswork ouf of disc brake install and setup.

#### MRC

Modal Resonance Cancellation (MRC) FEA-optimized modal shapes of D-Series rotors are intentionally designed to oppose those of Semi-Met T106 and Sintered T100 pads, canceling out noise and vibration.

#### KING PIN

Structural pad pin rentention bolt on 4-piston Dominion save weight and add strength.

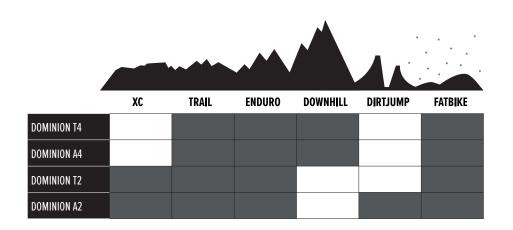
#### QUICK BITE<sup>2</sup>

QuickBite<sup>2</sup> pad and rotor system offers riders the shortest path to high performance, with fast, consistent and quiet burnish. The result is predictable performance.



# AM PRODUCT DISCIPLINES

# ASTM STANDARDS



ASTM LEVEL	COMPATIBLE PRODUCT	DESCRIPTION
<b>1</b>	Dominion A4 Dominion A2	This is a set of conditions for the operation of a bicycle on a regular paved surface where the tires are intended to maintain ground contact
€2	Dominion A4 Dominion A2	This is a set of conditions for the operation of a bicycle that includes Condition 1 as well as unpaved and gravel roads and trails with moderate grades. In this set of conditions, contact with irregular terrain and loss of tire contact with the ground may occur. Drops are intended to be limited to 15cm(6") or less
$\sim_{\scriptscriptstyle 3}$	Dominion A4 Dominion A2 Dominion T2 all rotors	This is a set of conditions for operation of a bicycle that includes Condition 1 and Condition 2 as well as rough trails, rough unpaved roads, and rough terrain and unimproved trails that require technical skills. Jumps and drops are intended to be less than 61cm(24")
<b>\$</b> 4	Dominion A4 Dominion T4 (minimum 180 or larger rotor)	This is a set of conditions for operation of a bicycle that includes Conditions 1, 2, and 3, or downhill grades on rough trails at speeds less than 40 km/h (25 mph), or both. Jumps are intended to be less than 122cm (48").
<b>♦••</b>	Dominion A4 Dominion T4 (minimum 203 or larger rotor)	This is a set of conditions for operation of a bicycle that includes Conditions 1, 2, 3, and 4; extreme jumping; or downhill grades on rough trails at speeds in excess of 40 km/h (25 mph); or a combination thereof.

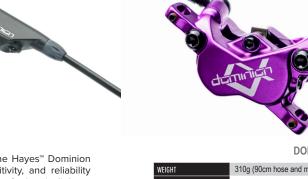
### DOMINION A4 PURPLE





WEIGHT	TBD
REACH ADJUST	2mm Hex
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite <sup>2</sup> & MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	17mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	Titanium King Pin
PAD INSERTION	Bottom load
CROSSHAIR ALIGNMENT	Yes
2- PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO Connection	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Carbon lever, composite reservoir cover, titanium hardware

The best just got better. The Hayes™ Dominion T4 packs the power, sensitivity, and reliability the Dominion family is known for into its lightest chassis yet. Featuring a Reynolds™ designed and in-house produced carbon-fiber lever, titanium hardware, composite reservoir cover, pads with aluminum backing plates, and precise weight-reducing machining.



#### **DOMINION** A4

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WEIGHT	310g (90cm hose and mount hardware)
REACH ADJUST	Tool free dial
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite <sup>2</sup> & MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	17mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	KingPin
PAD INSERTION	Bottom load
CROSSHAIR ALIGNMENT	Yes
2-PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO CONNECTION	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Composite reservoir cover

Now available in purple, Dominion's master cylinder is factory tuned for the shortest dead stroke possible and a crisp bite point. The Dominion A4 caliper utilizes four pistons in the most structurally rigid design possible. It features a cold-forged caliper and KingPin structural pad retention bolt that increases stiffness.

With a motorsports-inspired Two-Stroke dual port bleed system, industry-leading DOT 5.1 fluid and Kevlar hose, the hydraulic system is engineered for ultimate performance across all temperatures and easy maintenance.

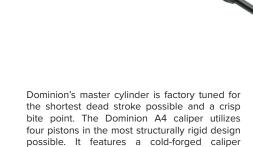
The A4 features the proprietary QuickBite<sup>2</sup> system for fast and consistent burnish, coupled with our D-Series rotor to manage the heat with less braking noise.

## DOMINION A4 SHORT REACH





WEIGHT	310g (90cm hose and mount hardware)
REACH ADJUST	Tool free dial
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite <sup>2</sup> & MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	17mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	KingPin
PAD INSERTION	Bottom load
CROSSHAIR ALIGNMENT	Yes
2-PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO CONNECTION	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Composite reservoir cover



With a motorsports-inspired Two-Stroke dual port bleed system, industry-leading DOT 5.1 fluid and Kevlar hose, the hydraulic system is engineered for ultimate performance across all temperatures and easy maintenance.

and KingPin structural pad retention bolt that

increases stiffness.

The A4 features the proprietary QuickBite<sup>2</sup> system for fast and consistent burnish, coupled with our D-Series rotor to manage the heat with less braking noise.



WEIGHT	310g (90cm hose and mount hardware)
REACH ADJUST	Tool free dial
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite <sup>2</sup> & MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	17mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	KingPin
PAD INSERTION	Bottom load
CROSSHAIR ALIGNMENT	Yes
2-PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO CONNECTION	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Composite reservoir cover

Dominion's Short Reach is ergonomically tailored for the smaller hand. Dominion's master cylinder is factory tuned for the shortest dead stroke possible and a crisp bite point. The Dominion A4 caliper utilizes four pistons in the most structurally rigid design possible. It features a cold-forged caliper and KingPin structural pad retention bolt that increases stiffness.

With a motorsports-inspired Two-Stroke dual port bleed system, industry-leading DOT 5.1 fluid and Kevlar hose, the hydraulic system is engineered for ultimate performance across all temperatures and easy maintenance.

The A4 features the proprietary QuickBite<sup>2</sup> system for fast and consistent burnish, coupled with our D-Series rotor to manage the heat with less braking noise.

## DOMINION A2





WEIGHT	254g
REACH ADJUST	2mm Hex
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite <sup>2</sup> & MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	24mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	Titanium Pad Pin
PAD INSERTION	Bottom load
CROSSHAIR ALIGNMENT	Yes
2- PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO CONNECTION	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Carbon lever, composite reservoir cover, titanium hardware

The best just got better. The Hayes™ Dominion T2 packs the power, sensitivity, and reliability the Dominion family is known for into its lightest chassis yet. Featuring a Reynolds™ designed and in-house produced carbon-fiber lever, titanium hardware, composite reservoir cover, pads with aluminum backing plates, and precise weight-reducing machining, the T2 is 50g lighter per brake (254q) than the Dominion A2.

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#### **DOMINION** A2

WEIGHT	303g (90cm hose & mount hardware)
REACH ADJUST	Tool Free Dial
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite² and MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	24mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	Pad Pin
PAD INSERTION	Top load
CROSSHAIR ALIGNMENT	Yes
2- PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO CONNECTION	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Composite reservoir cover

Expanding on our award-winning Dominion A4. The Dominion A2 targets Cross Country and Trail riders. Dominion A2 features a two-piston caliper. Dominion A2 includes all the performance from the Dominion A4, utilizing a compact, two-piston caliper. With the Short Reach option, the Dominion is the ideal brake option for any rider with smaller hands. Hayes™ product development team set out to design a brake system specifically designed for a smaller ergonomic profile.

Dominion A2 features the proprietary QuickBite<sup>2</sup> system for fast and consistent burnish, coupled with our D-Series rotor to manage the heat with less braking noise.

# DOMINION A2 SHORT REACH





#### **DOMINION** A2 SHORT REACH

WEIGHT	303g (90cm hose & mount hardware)
REACH ADJUST	Tool Free Dial
ROTOR OPTIONS	D-series (160, 180, 203, 220) w/ QuickBite² and MRC
HOSE	Low expansion with Kevlar weave
FLUID	Hayes DOT 5.1
BLEED	Two Stroke
CALIPER PISTON SIZE	24mm
PAD MATERIAL	T106 Semi-metallic, T100 Sintered metallic
PAD RETENTION	Pad Pin
PAD INSERTION	Top load
CROSSHAIR ALIGNMENT	Yes
2- PIECE CLAMP	Yes
DEAD STROKE ADJUST	2mm Hex
ADJUSTABLE BANJO CONNECTION	Yes
FLIP-FLOP LEVER	Yes
LEVER PIVOT	Sealed Cartridge Bearings
BAR CLAMP OPTIONS	Standard clamp / Peacemaker Shimano / Peacemaker Sram
OTHER	Composite reservoir cover

Dominion Short Reach maintains all the power and feel of our proven Dominion A2, and accomplishes this using a specifically designed smaller and narrower brake lever. Dominion SFL can be used in conjunction with either our Dominion A2 two-piston caliper or our Dominion A4 four-piston caliper. With optional lever sizes and two caliper choices, Dominion from Hayes™ Disc Brake now offers a brake that's ideal for your application.

