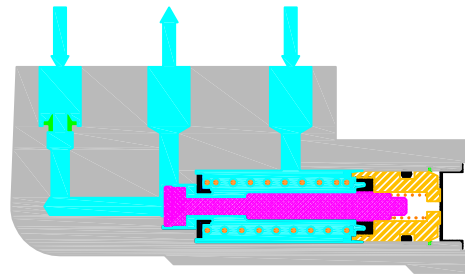
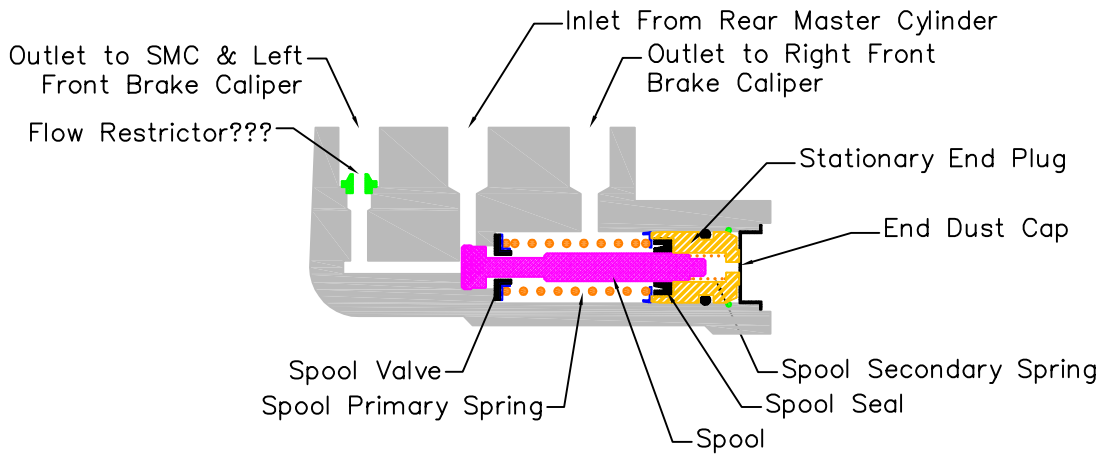
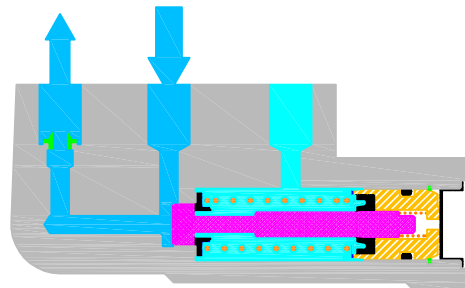


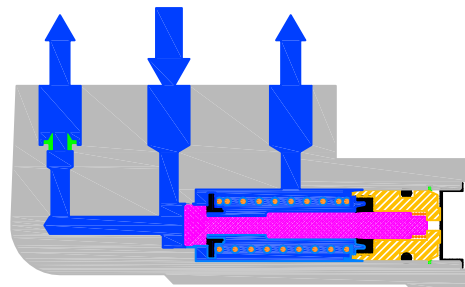
The delay valve (metering valve) used on the Honda ST1300 aids in stabilizing the motorcycle during braking by controlling the distribution of brake fluid pressure to the brake calipers. If the fluid pressure of the rear brake (pedal) master-cylinder went equally to all three brake calipers, the greater stopping power of the two front brake calipers could cause the motorcycle to become unstable. The Honda delay valve initially prevents fluid pressure from acting on the right-front brake caliper, when fluid pressure reaches a specific value (determined by the brake system design) fluid is allowed to pass through the delay valve, acting on the right-front brake caliper.



When the brake system is at rest, the delay valve spool is fully extended due to the force of the spool secondary spring. This allows a small amount of brake fluid to flow back to the rear master-cylinder, compensating for any fluid expansion or contraction due to changes in temperature.



When the brake pedal is initially applied, fluid pressure moves the spool against the spool valve (compressing the spool secondary spring), this action seals the delay valve fluid chamber, preventing any fluid from passing to the right-front brake caliper. At this time all fluid pressure passes to the left-front brake caliper.



As the application of the brake pedal is increased, fluid pressure will move the spool and spool valve as it overcomes the spool primary spring, allowing fluid to pass to the right-hand brake caliper. At this time all fluid pressure is equalized to all three brake calipers.

HELCKHOUSE North Plainfield NJ	'06 HONDA ST1300			
	BRAKE - DELAY VALVE			
DATE 5.Mar.2017	SCALE NTS	DRAWN BY DAVID	SHOW NO. 000	DRAWING NO. 00.00
			REVISION 0	