Why you need self ligation in your practice

Self ligation is the next step in the clinical progression of orthodontics. Studies show it treats faster, with less pain, and with fewer appointments.

Self ligating brackets use lower, biologically balanced forces to move teeth faster.

Dr. W.R. Profitt and Dr. H.W. Field concluded in a 1993 study that the ideal force to move teeth would be strong enough to move teeth, but not strong enough to cut off the vascular supply to the periodontal ligament. The low friction of self ligating brackets allows the use of low, continuous force wires resulting in efficient, comfortable tooth movement.

Reduced friction speeds tooth movement and shortens treatment time.

Studies have consistently shown that friction levels in traditionally ligated systems can be up to 600X that of self ligation systems. The low friction of self ligating systems can shorten treatment times by 3 to 6 months.

Longer treatment intervals and shorter appointments.

Appointment intervals can be up to 12 weeks apart with self ligating systems. With no ligatures to tie, setup and maintenance appointments are often shorter and easier on staff.

Why self ligation?

- Increased Patient Load
- Shorter Office Hours
- Happier Staff
- Happier Patients and Parents
**Improving the Passive system with VisionLP**

Vision LP brackets are fully passive, allowing teeth to move along the arch wire with significantly reduced friction. High, standard, and low torque options provide patient-customized treatment while still maintaining low friction mechanics. Coordinated VLP arch wires complement the bracket system and are available in a full range of materials, for all stages of treatment. Together, the Vision LP brackets, variable torques, and VLP wires of the Vision LP System work to maximize the benefits of passive self ligation.

* Vision LP is available in a corresponding Dr. Damon system as well as a corresponding Drs. McLaughlin, Bennett, Trevisi system. The American Orthodontics versions of these two systems are not claimed to be a duplication of any other, nor does American Orthodontics imply that they are endorsed in any way by Drs. Damon, McLaughlin, Bennett, or Trevisi.

Vision LP Patent pending.
No Bio-debris binding
Brackets with sliding gates or spring clips can trap bio-debris and build up calculus in their opening mechanisms, making them difficult to open. Vision LP brackets with Flip Clip™ technology solve this common problem by eliminating narrow clip tracks and rotating open instead of sliding.

Sliding Gate Style  Spring Clip Style  Flip Clip™ Style
Toothbrushes cannot reach the recesses of the metal on metal sliding tracks (shown above in red) of other clip designs. Over the course of treatment, bio-debris can build up and make the clips increasingly difficult to open. Vision LP clips have only very small contact points, which are located on the face of the bracket where they are scrubbed clean every time the patient brushes.

Low Profile
Vision LP brackets offer patients a lower profile and less bulk than Damon* brackets. Keeping brackets out of occlusion reduces the chance for bite debonding.

In/Outs
Lower Vision LP in/out s keep the arch wire closer to the tooth surface for enhanced mechanics.

*Registered trademarks of Sybron Dental Specialties Inc.
**Easy Open and Close**

The Vision LP clip was designed with the user in mind. The clip is easy to open with a simple rotation of the Vision LP instrument. Closing is a gentle “click” with a fingernail or the instrument.

**EASY OPEN:** Simply insert tip of opening instrument into clip notch and rotate barrel of the instrument.

**EASY CLOSE:** Press the clip closed with a fingernail or catch the edge of the clip with the instrument and click it closed.

**MR™ Bonding Bases and Offset Bicuspid Pads**

Using proven Maximum Retention™ technology, Vision LP bonding bases incorporate 80 gauge mesh on generously sized, photo etched pads, increasing surface area and mechanical retention. Compound radii closely mimic tooth shape, critical to maximizing bond strength. Optional offset bicuspid pads provide extra bonding security.

**Individual Color Coding**

Have you ever held a loose bracket and had to examine it like a detective to determine if it was a cuspid or a bicuspid? Individual color coding eliminates doubts and makes sorting brackets quick and accurate.

Color codes are on distal gingival tie wings and are visible when clips are open.

Torque options are designated with an additional, occlusal color code: Red for high torque, green for low torque, while standard torque has no additional color code.
More Aesthetic and Hygienic
Smaller brackets and no ligatures make Vision LP more aesthetic and hygienic than conventionally ligated brackets.

Strong, Durable Clip
The interplay between the keeper notch in the bracket and the carefully heat treated, nickel titanium clip gives Vision LP the ability to hold up to 10 pounds of outward wire force; more than enough to contain heavily torqued or rotated wires. However, the unique design of the clip’s hinge action requires only light, comfortable opening forces during wire changes.

Wide Opening Clip
The Vision LP clip opens 90 degrees, allowing clear visibility and access for easy wire changes, even in the posterior.

Twin Design
Vision LP’s twin design allows you to use chain and other auxiliary forces, to offer colored ligatures, or to tie-in wires for additional finishing control.

Molar Tubes
Vision LP self ligating buccal tubes save you time and give you versatility when treating 1st molars.
The VLP arch form was designed to maximize the benefits of a passive self-ligating bracket system. The slightly wider arch width in the posterior allows for full expression of the expansion characteristics of low friction passive systems. The wider arch form has the added advantage of creating more arch length, reducing the need for extractions due to crowding. VLP wires are available in many materials and sizes to offer complete latitude in treatment planning. VLP arch forms have one universal upper/lower size.

Heat Activated Wire
American Orthodontics’ premium heat activated wire, Therma-Ti™, offers the latest in arch wire technology. The enhanced alloy characteristics of Therma-Ti produce a wire with biologically optimal unloading forces that are light, continuous, and consistent - perfect for today’s longer treatment intervals. Because it is soft at room temperature, Therma-Ti is very easy to ligate, even into the most malposed teeth, but exhibits superior resistance to deformation. Therma-Ti has a very small transition range from dead-soft to active for more predictable force levels.

Super Elastic Nickel Titanium Wire
VLP SE NiTi wire also offers consistent, predictable, and continuous unloading forces, but with a slightly higher force than heat activated wire. Polished to the very highest quality satin finish, SE NiTi offers superior low friction mechanics ideal for the larger dimensions typically used in SE NiTi.

Stainless Steel Wire
VLP SS arches are made from the highest quality medical grade steel, are polished to a gloss finish, and offer superior tensile strength with less brittleness. Available with presoldered hooks which can be reformed into various hook configurations to provide a secure purchase point for force modules or other auxiliaries to aid in closing spaces or in final detailing.

Suggested Wire Sequencing for Vision LP .022 Slot

<table>
<thead>
<tr>
<th>STAGE 1 Initial</th>
<th>STAGE 2 Torque Control</th>
<th>STAGE 2 Continued</th>
<th>STAGES 3 &amp; 4 Finishing</th>
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<tr>
<td>UPPER .014 HA</td>
<td>.014 x .025 HA</td>
<td>.018 x .025 HA</td>
<td>.019 x .025 SS POSTED</td>
</tr>
<tr>
<td>LOWER .014 HA</td>
<td>.014 x .025 HA</td>
<td>.018 x .025 HA</td>
<td>.016 x .025 SS POSTED</td>
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</tbody>
</table>

2 mm ARCH STOPS
Prevent “wire creep” on non-dimpled arch wires. Crimp a stop at the midline or use on either side of a central bracket.
851-750  10 pcs/pkg

2 mm SURGICAL HOOKS
Conveniently place a hook, as needed, anywhere on the arch wire.
851-623C  10 pcs/pkg

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Easy Open and Close
Low Profile
MR™ Bonding Base
No Bio Debris Binding
Wide Opening Clip
Twin Design
Strong Durable Clip
Individual Color Coding