

Front End Components from Xaloy for Complete Melt Stream Systems

Non Return Valves,
End Caps, Nozzle
Bodies and Tips.
Making it easier for
you, right now.



Xaloy's comprehensive line of front end components are made to OEM original specifications with improved wear and corrosion resistance. Select from a broad range of materials of construction and top that with fast delivery, maximizing your up time.

Non Return Valves. At Xaloy, we have an on-line database of nearly 1,600 versions of non-return valves cross referenced by manufacturer and injection unit model. Many OEM standard design dimensions are available on-line for quick order confirmation and placement, and improved product accuracy.

With over 1,500 stock items in hand to make up the tip assembly required we can quickly and economically provide the exact components you require.

Ball Check Series (BC)

This pin style standard ball check is made of Tool Steel (H-13) Nitrided Body for high speed molding of non-filled materials.

Value Series (VS)

This free flow general purpose valve is a low cost option for non filled materials and consists of a 3-piece (all D2) design: retainer, check ring and back seat.

Wear Resistant Series (WRS)

This free flow valve is ideal for engineering resins with a low percentage of fill. The 3-piece construction is of TM80 Material.

Abrasion Resistant Series (ARS)

This cost-saving 4 piece valve contains fully replace-able parts allowing you the flexibility to repair or replace certain parts without replacing the complete valve. It's available in various styles which include general purpose, carbide and ceramic.

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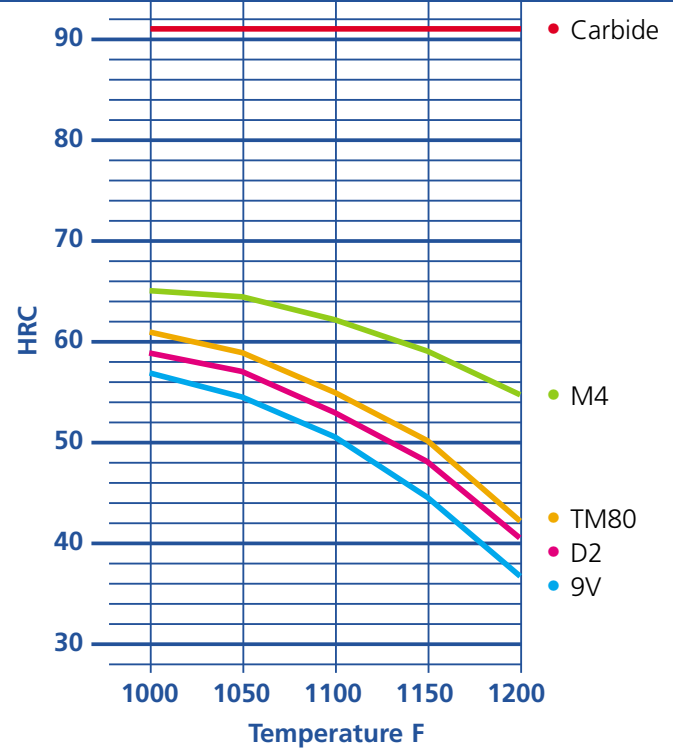
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Front End Components

Our worldwide presence includes sales and service offices located in the United States, Europe, Thailand, Japan, China and India and a global network of agents geographically positioned to serve customers throughout the world.

Red Hardness Wear Resistance.

Red hardness represents the ability to maintain abrasive wear resistance while operating at elevated temperatures. The graph represents the ability of the materials Xaloy uses to construct non return valve components. It is important when you consider that during operation, surface temperature of the ring and seats can achieve in excess of 1000°F while rotating at high RPM.



Shut-off Nozzles. Xaloy supplies the very best quality shut off valves through it's Swiss alliance partner, Herzog. In addition to needle and bolt shut-off nozzles, which are pneumatically, hydraulically or spring actuated, we offer a full range of components including components those for gas technologies. By carefully selecting the components, we not only increase your profitability but also insure that these components last significantly longer while installed on your machine.



High-Performance Needle Shutoff Nozzle, type HP

- Maximum pressure 3000 bar (43,500 psi)
- Maximum melt temperature 400° C (750°F)
- Controlled, positive shutoff and opening
- Fast, accurate, pneumatically or hydraulically controlled



Spring-Operated Needle Shutoff Nozzle, type S

- No setup: melt pressure governs opening and closing
- Positive shutoff on the melt stream
- Our most economical nozzle



Bolt High Performance Shutoff Nozzle, type BHP

- Straight through melt flow channel. No division and re-merging
- Low pressure drop
- Avoids streaking and memory effects



Elastomer Nozzle, type E

- Specially developed for liquid silicone rubber molding
- Suitable for thermoplastic elastomers too
- Allows water cooling all the way to the tip

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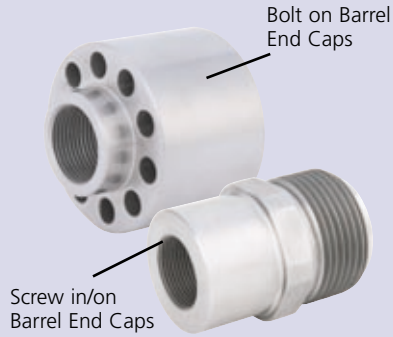
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Front End Components



APV

APV Valve Benefits:

- 3 times less distance to close
- Less part weight variation
- Positive closure - no leakage
- Pullback not required
- Color mixing & dispersion
- Eliminates splay
- Reduced barrel wear
- Eliminates seat wear

Barrel End Caps. Xaloy offers two styles of standard barrel end caps: screw in/on and bolt on end caps. Both styles are available in a wide assortment of materials with various platings and coatings and are able to work with special materials. Custom end caps are also available. When an end cap is purchased with a barrel, the unit is supplied preassembled and packaged with mounting bolts for added safety and ease of mounting.

Nozzles. Our one piece nozzle is constructed of tool steel, nitrided or chrome plated. Our selection of standard nozzle bodies comes in various lengths – in 2” increments with threads to match the end cap and a thermocouple well. Thermocouples and heaters can complete the total melt stream system.

Economical Tips. Xaloy offers a wide variety of replaceable tips, constructed with tool steel in either a 1/2 ” or 3/4 ” or 10mm radius. Nozzle Tips are available in different sizes, styles and types with various internal designs. Tips constructed of high heat transfer materials are available and we offer quantity discounts.

The All Purpose Valve (APV). The APV minimizes closure leakage, reduces component wear, improves mixing and reduces part weight variation. The patented APV design not only closes consistently, but does so without the use of pullback. Closure is achieved when the ring slides past the radial groove. This sliding closure allows the valve to close positively while withstanding pack and hold pressures of 20,000 PSI without creeping into the cushion.

Because the APV does not require ring thickness for closure minimal land length is utilized enabling the APV to use 3 times less distance to close than standard valves. Less	closure distance translates to less part weight variation.	closing valve on the market today. Less restriction means faster recovery as well as less temperature rise. The unique configuration also enhances color mixing and dispersion.
	The APV is substantially less restrictive than any consistent	

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