



DFP Monthly

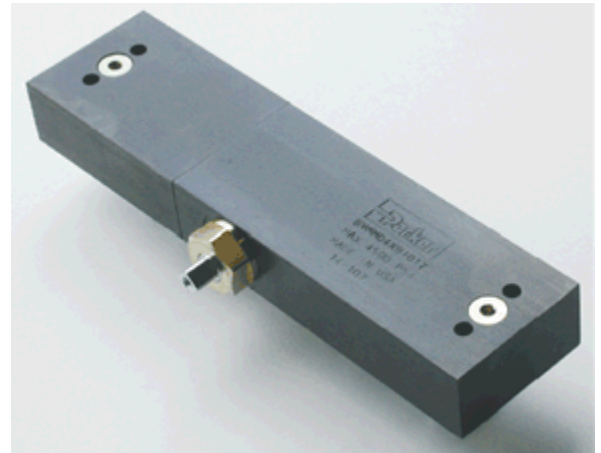


40 Cedar Street -- Tillsonburg Ontario -- 1(800)265-2656

Manifold Ball Valves

Customer Unmet Need...

On the military MRAP vehicle (Mine Resistant Ambush Protected) a means to operate a hydraulic lock cylinder on the heavily armored 1500 pound passenger doors was needed. The hydraulic lock function is part of a pneumatically assisted door operating system and is designed to hold the door in intermediate open positions. Initially the customer was anticipating using a ball valve, hard tubing or hose and other connectors. Not only did this add additional leak points and potential alignment difficulty in assembly, but this set-up was also going to produce a less than optimal location for the valve actuator.



Solution...

A bridge cylinder manifold with an internal ball valve was designed to operate the hydraulic lock cylinder. This innovative designed product was the ideal solution for the customer's application.

Success Factors...

The manifold / valve integration feature eliminates the need for fittings and hoses and precisely locates the valve operator for seamless integration into the final door assembly.

This solution allows the customer's existing set-up of the pneumatically assisted door operating system to stay as originally designed with this valve being "plugged" into place.

For more information, please contact your salesperson or our inside sales staff at 1(800)265-2656 or at sales@dynamicfluid.com.



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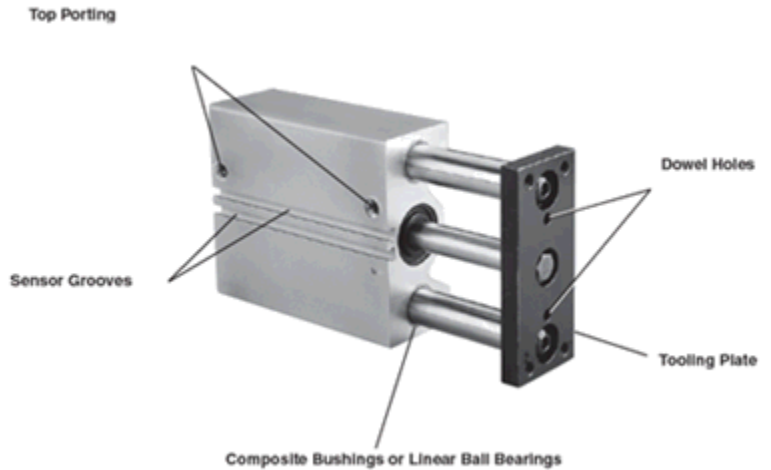
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P5T Heavy Duty Thrusters

Parker's P5T series of compact heavy duty thrusters are up to your automation task!

The P5T is available in standard bores from 16mm to 100mm and strokes from 10mm to 200mm. The unit has dual guide rods and is designed to withstand side loads that a regular rod cylinder can't.

The P5T comes with dowel holes both in the body and the guide plate to make mounting and locating easier. The thruster also uses Parker's global switch series P8S and is available to ship with flow controls. The units are available with bumpers, extend/retract stop collars and even ball bearings for the guide rod bushings.



They are ideal for conveyor stopping applications. Units can be mounted horizontally or vertically. Composite bushings are highly recommended for this of application.

2H / 3H Hydraulic Tie Rod Cylinders

Parker hydraulic tie rod cylinders are the industry standard around the globe for many industrial applications. Since these cylinders are manufactured around the world each region is partial to a particular porting style that is commonly used.

North American preference is SAE o-ring or SAE code 61 flange ports. The reason for using these ports is because of the elastomeric seal that is used to seal the metal components to prevent oil leaks at high pressure. These port styles work extremely well even when an adapter has to be removed and re-installed.

Another great option used primarily in Europe, Asia and other parts of the world is British standard parallel pipe or BSPP. This thread looks almost identical to SAE o-ring and also uses an elastomeric seal to ensure a good seal on the operating fluid of the cylinder. Metric 4 bolt flanges are also used around the world where a flange is needed. They are similar to SAE flanges but the fasteners are metric thread.

One question that does arise from time to time is "Can I put a port in the centerline of the cap face." The answer is "yes". The only restriction is the cylinder cannot have a cushion for that application. The maximum size port for centerline of cap face is shown in the table. Reasons to use this type of porting can vary from convenience of port routing or to ensure laminar fluid flow for high speed applications.