

HYPRO[®] EXPRESS[™] BOOM FITTINGS & NOZZLE BODY END CAPS

Superior Sealing Fittings For Precision Spraying



EXPRESS

Wet Boom Fittings

Hypro Express wet boom fittings feature a connection that is quick and easy to assemble while providing a quality leakproof seal for stainless steel or polypropylene pipe. They lock the alignment of pipe sections, barbs, tees or nozzle bodies for always-right assembly. Utilizing the proven o-ring sealed joints used for nozzle bodies, Express wet boom fittings eliminate the need for leak-prone threaded joints or expensive welded fittings. They efficiently install using the same hardware and mounting methods as Hypro ProFlo™ wet boom nozzle bodies and leverage the same simple drilling and cutting operations that prepare pipes for final assembly. The fitting seals are pre-greased for easy installation over pipe ends.

Express wet boom fittings can help save on manufacturing costs by reducing assembly time and increasing assembly quality. They also enable the use of lighter schedule 5 stainless steel pipe in place of heavy schedule 40 pipe, reducing the cost of stainless material by as much as 50%.

Efficiently installs using the same hardware and mounting methods as Hypro ProFlo nozzle bodies

Easy 3-step assembly:

- 1 - Slide fitting on pipe
- 2 - Snap on clamps
- 3 - Drive in screws

Locked alignment of pipe sections, barbs and tees for always-right assembly that is superior to threaded joints

Saves up to 50% on stainless material by enabling the use of lighter schedule 5 pipe

Proven o-ring sealed joints eliminate leak-prone threaded joints

Pre-installed nuts for easy assembly

Available in 1" nominal pipe (1.315"OD) with universal flange, hose barb, and cam lock connections, as well as nozzle body end caps

Express Universal Flange Wet Boom Fittings



Part Number (Carton Qty: 50)	Part Number (1 per Bag)	Description	Pipe Mounting*
7433-2502	BG-7433-2502	Express Fitting X 1" Universal Flange Straight	A
7433-2503	BG-7433-2503	2 Express Fitting X 1" Universal Flange Tee	A

For high quality sealing to flange fitting, use Hypro's Universal Flange Gasket on back page.

Express Hose Barb Wet Boom Fittings



Part Number (Carton Qty: 50)	Part Number (1 per Bag)	Description	Pipe Mounting*
7433-2608	BG-7433-2608	Express Fitting X 1" Hose Barb Straight	A
7433-2610	BG-7433-2610	Express Fitting X 1" Hose Barb Elbow	A

Express Cam Lock Wet Boom Fitting



Part Number (Carton Qty: 50)	Part Number (1 per Bag)	Description	Pipe Mounting*
7433-2613	BG-7433-2613	Express Fitting X 1" Male Cam Lock Straight	A

* See pipe mounting dimensions on back page.

EXPRESS

Nozzle Body End Caps

Conventional boom designs trap air in the boom causing a delay from the close signal to when spray actually stops. Hypro's Express nozzle body end caps include a passive feature that eliminates the trapped air by allowing the air to escape through the nozzle body. When the boom is completely filled with liquid, the nozzle body's diaphragm check valve (DCV) activation time is greatly improved, by as much as 85%. The Express nozzle body end cap supports today's practice of Precision Agriculture by enabling standard nozzle bodies to have much quicker reaction times in response to GPS boom shut-off control signals, turning off spray quickly and decisively on overlaps, end rows, and boundary areas.

The Express nozzle body end caps also create a much cleaner look by terminating the pipe at the last nozzle body, while reducing pipe material by as much as 10%. Using nozzle body end caps will contribute to better boom hygiene by eliminating the 'dead-end' termination of pipe that allows chemical residue to buildup and air to accumulate. The additional option of a removable end plug allows easy access for boom cleanout to flush debris from boom pipe.

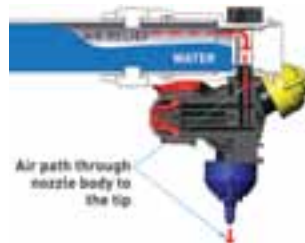


Boom Pipe Cutaway Views and Reaction Time Graph

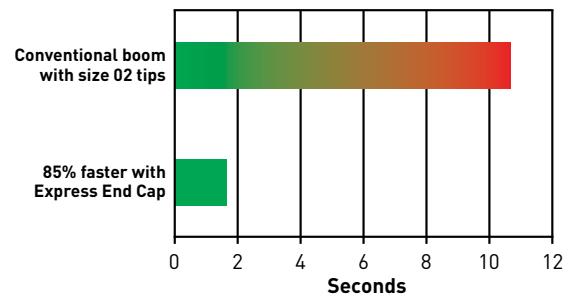
Without Express End Cap



With Express End Cap



Reaction Time from "Close" Signal to Spray Stoppage



Express Nozzle Body End Cap



Part Number (Carton Qty: 100)	Part Number (1 per Bag)	Description	Removable Plug for Cleanout	Pipe Mounting*
7433-3316	BG-7433-3316	1" Express™ fitting with nozzle body end cap that allows trapped air to escape through the nozzle body	Yes	B

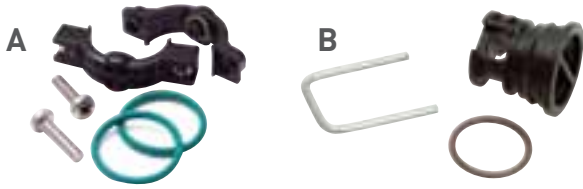
Express Nozzle Body End Cap Retrofit Kit



Part Number	Description
3410-0039	Kit includes machinist-quality drill bit, drilling and cutting jig for 1" pipe, Emery cloth, and instructions to retrofit conventional wet boom spray pipe for Express nozzle body end caps.

* See pipe mounting dimensions on back page.

Service Kit



Part Number	Description	REF
3430-0790	Clamp & Hardware Kit with Pipe O-rings	A
2910-0026	Clamp & Hardware Kit	-
7433-2600	Removable Plug with O-ring & Retainer Kit	B

Universal Flange Gasket



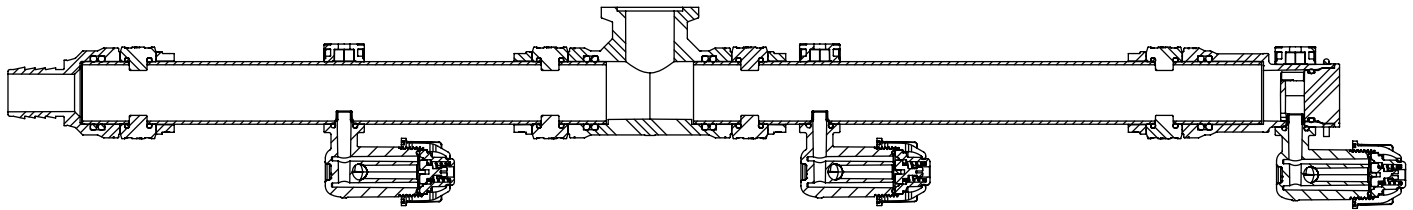
- The Hypro Universal Flanged Gasket aligns adjoining fittings and holds itself in place during joint assembly without the use of adhesives
- The outside of the gasket is visible for inspection during assembly to ensure gasket is properly placed
- Sealing areas between fitting faces increase maximum pressure and vacuum the joint can manage without leaks

Part Number	Description
UFG0100E	1" EDPM Universal Flange Gasket

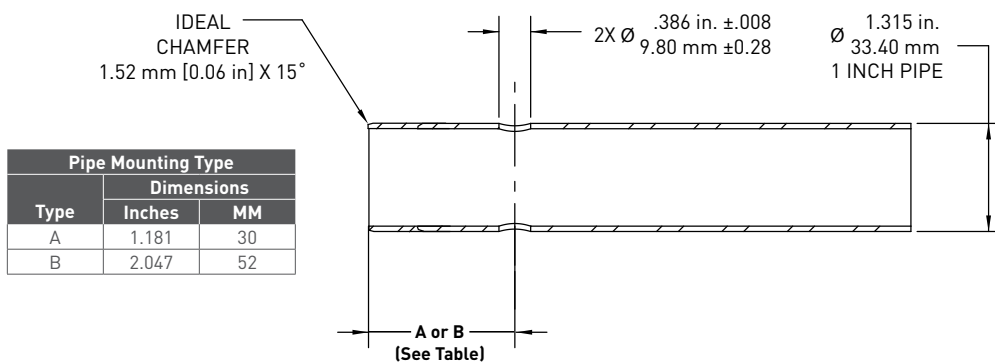
1½", 2" and 3" sizes available for larger plumbing applications

Example Installation

Express wet boom fittings and nozzle body end caps attach to the boom using the same proven o-ring sealed joints used for nozzle bodies. Fittings engage on the top and bottom of the boom pipe, locking them into place for always-right assembly that is superior to threaded joints.



Wet Boom Pipe Mounting Dimensions



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Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.