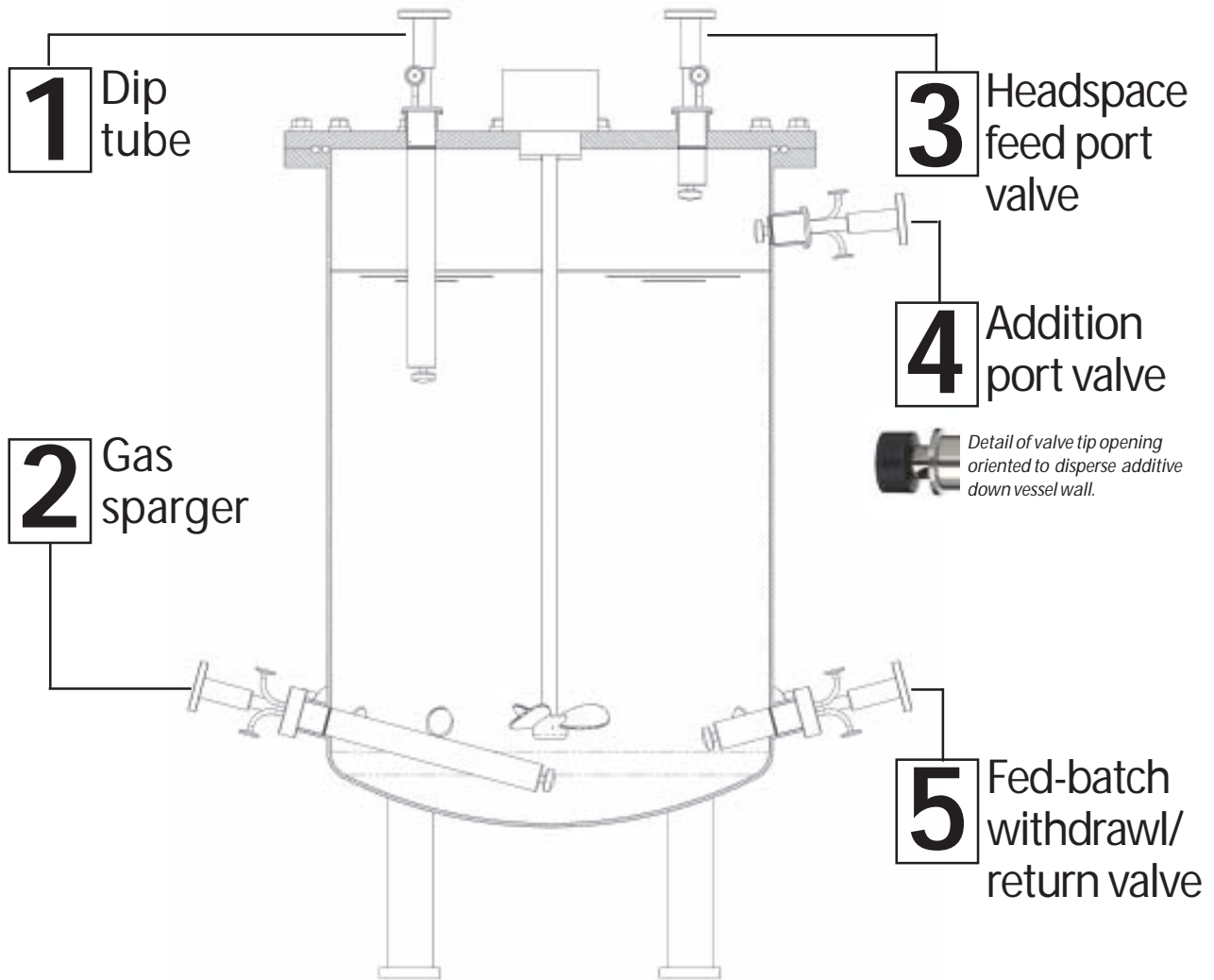


One Valve, Five Uses (and counting.)

Use the Pharmenta SIPTube[®] valve all around your vessel as an in-process CIP/SIP-able...



The SIPTube[®] valve has no equal when it comes to versatility. But it's not just a Jack-of-all-trades – it's a Master at what it does. For example, if you currently use a dip tube to draw samples, use the SIPTube[®] valve instead and eliminate residual contaminants from previous samples. Want a better gas sparger? The SIPTube[®] valve eliminates aeration flow capacity losses due to sparger clogging.

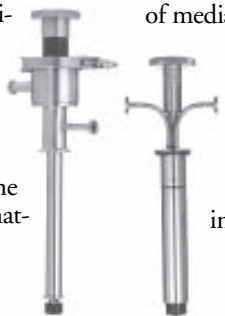
What makes the SIPTube[®] valve so versatile? Patented Tip-Seal[™] technology moves the valve seal from outside the vessel to the tip of the valve at the process interface, eliminating all deadspace found in conventional systems.

Clean-Thru[™]/Steam-Thru[™] design enables complete cleaning and sterilization of internal passages to and from the process seal, putting an end to stagnation, residue build-up, blockages and growback. What's more, it eliminates the need to dedicate a port for a single use. You can use the

same device and port to feed different kinds of additives into your process. Install multiple SIPTube[®] valves and you can use one while another is being cleaned. Perfect for continuous feeding of media and fed-batch applications.

If your process is heat-sensitive, you can safely sterilize-in-place at anytime you like using SIPTube[®] valves equipped with optional insulation.

We're working on more ways to use the SIPTube[®] to improve your processes. How many can you come up with?



*Left: High-flow version
Right: standard version
(shown with optional insulation.)*

 **Pharmenta[®]**
From NL Technologies, Ltd.

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