CELEROS™ FLOW TECHNOLOGY

PIG STOP AND BYPASS MECHANISM

FOR AUTOMATED MULTIPLE PIG LAUNCHERS

GD ENGINEERING®

- Pig Stop & Bypass Mechanism is a Celeros patented product – designed specifically for Automated Multiple Pig Launchers
- Critical component for reliable multiple pig launching
- Preferred solution on unmanned or normally unmanned platforms
- Complete automation allows pigs to be launched remotely
- Proven in the field on topside applications

MULTIPLE PIG LAUNCHING SYSTEMS – (MPL)

MPL Systems

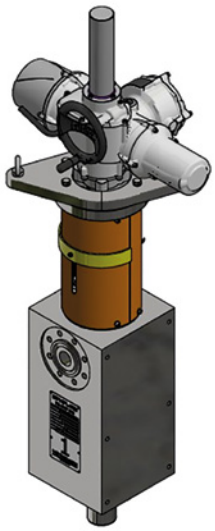
Patented Pig Stop and Bypass (PSB) technology from Celeros Flow Technology allows automated pigging on oil & gas pipelines to be managed remotely, either from land or a main platform – making it a critical component for the development of unmanned or normally unmanned platform pigging solutions.

Developed by GD Engineering, the PSB solution is designed to be integrated with an automated multiple pig launcher vessel. It provides a reliable solution, allowing multiple pigs to be preloaded into the launcher vessel and sequentially launched without the need to depressureize the vessel between pigging runs. PSB is a proven system for ensuring that individual pigs are positively launched into the pipeline. It allows interchangeability of any type of conventional pig with the same dimensions as the original pig design, as well as allowing future change-out of conventional pigs with intelligent pigs.

Leaders in the industry that are focused on sustainability have recognised that developments in digitalization mean that the notion of complete remote operated unmanned platforms are no longer a pipe dream.

Unmanned, Normally unmanned & Minimum Manned platforms installations are being designed to allow remote operation with significantly reduced onsite personnel. The reduction in personnel on rigs reduces human risk and significantly lowers the cost of managing offshore gas & oil fields.

Remotely managed platforms allow platform footprint to be significantly reduced, with demonstrated up to 30% operating cost reduction without loss of reliable production, and significant reductions in hazards exposure for people operating the facilities.



AUTOMATED MULTIPLE PIG LAUNCHING – BENEFITS IN THE FIELD

PIG STOP & BYPASS MECHANISM	
APPLICATION DETAILS	• Multiple Pig Launchers are used to facilitate the launching of multiple pigs sequentially & without the need to manually reload launchers • Advanced automated technology for unmanned platforms • Complete automation allow pigging to be managed remotely from land or a main platform • PSB is the critical component of an AMPL system
BENEFITS	• Allows multiple pigs to be pre-loaded and launched sequentially • Allows interchangeability of conventional and intelligent pigs • Realised cost savings through reduced onsite personnel & maintenance associated with conventional pigging • Significantly reduced processing platform footprint • Reduced cost of managing offshore Oil & Gas Fields • Reduced hazards exposure for people operating the facilities • Reduces frequency of depressureization and use of isolation valves used in conventional pigging
EXPERIENCE	• Kupe Gas New Zealand 12”/14” AMPL for launching 5 pigs • Turkmenistan Block 1 12”/16” AMPL for launching 6 pigs • Valhal Flanke West Norway 14/16” AMPL for launching 6 pigs • HOD Field Dev Norway 14/16” AMPL for launching 6 pigs

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| SPEED | EXCELLENCE | PARTNERSHIP