

MAGVALVE® INCREASES TRIDENT® FUNCTIONALITY

Introducing a PDM Motor into the TRIDENT System



TRIDENT Rotary System

One Trip	Dress Cement or Set Bridge Plug	Pressure Test	Inflow Test	Leak Finding	Cut on demand	Circulate Annulus on demand	Cut verification	Recover Casing
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Incorporating the MAGValve and a PDM Motor into the TRIDENT System provides additional functionality to the features listed above, see below Systems;

TRIDENT Annular Closed (AC)

- Contains shallow gas
- No environmental spills

TRIDENT Seal Retrieval (SR)

- MAGValve allows for Seal Assembly Jet & Recovery
- Circulate out gas/H2S

TRIDENT Precision Cut (PC)

- Cut placement engineered for each well
- No damage to outer casing

TRIDENT High Tension (HT) Overpull

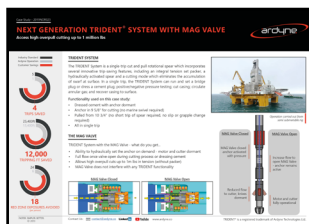
- Cut heavy strings in tension
- Anchor 1m lb load rated

TRIDENT Motorized Configurations

Systems	Equipment Modules							
	Seal Recovery Tool	Circulation Sub	Cut Verification Spear	TRIDENT Packer	TRIDENT Anchor	MAGValve	Motor Assembly	Cutter Assembly
TRIDENT AC			✓	✓	✓	✓	✓	✓
TRIDENT SR	✓	✓	✓	✓	✓	✓	✓	✓
TRIDENT PC			✓	✓	✓	✓	✓	✓
TRIDENT HT			✓		✓	✓	✓	✓

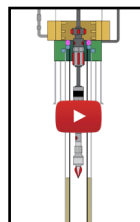
✓ - Additional functionality of a Cut Verification Spear can be run to allow verification of free casing if due to casing or well limitations the casing can not be lifted from the cut point.

Learn more about TRIDENT AC in our case study



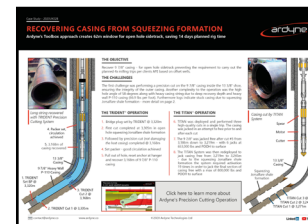
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Learn more about our Seal Retrieval System by viewing this video animation



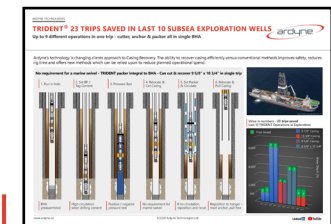
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Learn more about TRIDENT PC in our case study



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Learn more about TRIDENT trip saving across our last 10 Exploration wells



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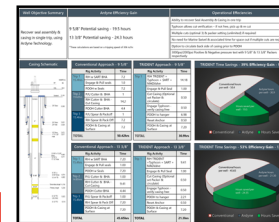


MAGValve Features	
Applications	Benefits
<ul style="list-style-type: none"> Subsea wells Annular gas - Closed BOP annular Ultra deepwater cutting & pulling Multiple operations Casing required to be cut in tension Process repeatability 	<ul style="list-style-type: none"> Single trip casing recovery system Recover seal assembly Multiple cutting functionality Annular circulation Free casing verification Casing pulling with on demand packer

MAGValve		
Specification	Imperial	Metric
Tool OD (Max)	8.125"	206.4 mm
Tool ID (Min)	N/A	N/A
Length	65.75"	1,670 mm
Tensile	1,433k lbs*	650 tonne*
Torsional	45,360 lb-ft	61,500 Nm
Pressure	5,000 psi	344.7 bar
Upper Connection	6 5/8 Regular Box	
Lower Connection	6 5/8 Regular Pin or NC 50	

MAGValve Functioning Sequence	
1. Break circulation	<ul style="list-style-type: none"> Pressure will start to build to TRIDENT Anchor setting pressure Flow rate will not function casing cutter Pick up to set TRIDENT Anchor with overpull
2. Increase flow	<ul style="list-style-type: none"> Pressure will increase Internal magnetic forces are overcome and the MAGValve opens to allow full flow TFA Flow rate increased to motor range and cutter pressure requirements
3. Cut Casing	<ul style="list-style-type: none"> Drop in SPP indicates successful cut
4. Stop pumps	<ul style="list-style-type: none"> Pressure will decrease Internal magnetic forces close TFA MAGValve is reset ready for next operation

View potential time savings of TRIDENT vs conventional methods



Click here to view

* 6 5/8" Reg MAGValve

