



**THE POWERPLUS ACCUMULATOR FUNCTIONALITY IS AN ARRAY OF CHARGED ACCUMULATOR CYLINDERS THAT PROVIDE FAIL-SAFE CLOSE AND LOCAL CUTTING POWER TO A CONNECTED VALVE. THE SYSTEM IS PRE-GAS CHARGED AT SURFACE AND ENERGISED SUBSEA. THE POWERPLUS SYSTEM IS ADJUSTABLE FOR POWER AND CUTTING PERFORMANCE TO SUIT THE OPERATIONAL MEDIA AND WATER DEPTH.**

**Features:**

- ▷ Local accumulated energy to the connected valve (i.e. retainer valve) for cutting operations and rapid response closure in event of planned or emergency operations
- ▷ Integral PowerPlus Accumulator to provide power to deliver super fast closure or fail-safe solution
- ▷ Provide a conduit for the THRT and downhole hydraulic and electrical lines
- ▷ Fully validated to API 17G 3<sup>rd</sup> Edition

### DESIGN DATA

<b>Nominal Bore Diameter</b>	7-3/8" (187.3 mm)
<b>Design Pressure</b>	Working: 10,000 psi (69.0 MPa) Test: 15,000 psi (103.4 MPa)
<b>Design Standard</b>	API 6A 21 <sup>st</sup> Edition 2018 (ISO 10423), API 17G 3 <sup>rd</sup> Edition 2019 (ISO 13628-7), NACE MR0175 2015 (ISO 15156)
<b>Temperature Class (Design)</b>	API 6A Class U (0°F to 250°F / -18°C to +121°C)
<b>Service</b>	CO <sub>2</sub> , H <sub>2</sub> S (NACE MR0175 / ISO 15156)
<b>Material Class</b>	EE
<b>Product Specification Level</b>	PSL 3G
<b>Design Validation Level</b>	API 17G 3 <sup>rd</sup> Edition SSL-Gas (Fully compliant)

### PERFORMANCE DATA

<b>Maximum Hydraulic Pressure</b>	10,000 psi (69.0 MPa)
<b>Acceptable Hydraulic Fluid</b>	Any water or oil based control fluid
<b>Accumulator Hydraulic Volume</b>	Up to 1.79 U.S. Gallons (6.8 litres)
<b>Accumulator Gas Volume</b>	7.29 U.S. Gallons (27.6 litres)

### WEIGHT AND DIMENSIONS

<b>Overall Height (Nominal)</b>	41.000" (1,041 mm)
<b>Overall Width (Nominal)</b>	18.625" (473 mm)
<b>Gross Dry Weight (Approx.)</b>	1,530 lb (694 kg)

### VALVE INTERFACES

<b>Design Standard</b>	API 17G 3 <sup>rd</sup> Edition.
<b>Upper End Connection</b>	Interventek 7.375" Studded Flange
<b>Lower End Connection</b>	Interventek 7.375" Open Flange
<b>Hydraulic Interface (Flange)</b>	Upper Interface : 20 off – Interventek Hydraulic Stab Pocket
	Lower Interface : 20 off – Interventek Hydraulic Stab Pocket

## FUNCTIONAL CAPACITIES

Maximum Tension @ RWP	440 kip
Maximum Moment @ RWP	134 ft kip
Maximum Tension @ 0 ksi	1,237 kip
Maximum Moment @ 0 ksi	377 ft kip

Note that these values are the limiting values, if GRA is conducted then greater localized values may be available

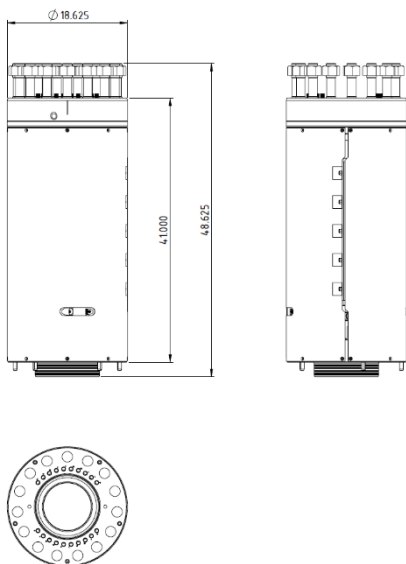
## VALIDATION LEVEL

Service Specification Level	API 17G SSL-Gas
Temperature Class (Operational)	27°F to 250°F / -3°C to +121°C
Design Water Depth (Max)	10,000 ft (3,048 m)

## NOTES

Structural validation testing fully compliant with API 17G 3<sup>rd</sup> Edition – Annex E  
Validation testing is fully compliant with API 17G 3<sup>rd</sup> Edition – Annex G

## PRODUCT LAYOUT DRAWING



The information in this document is uncontrolled and subject to change without notice.

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