



Flexible Engineered Solutions

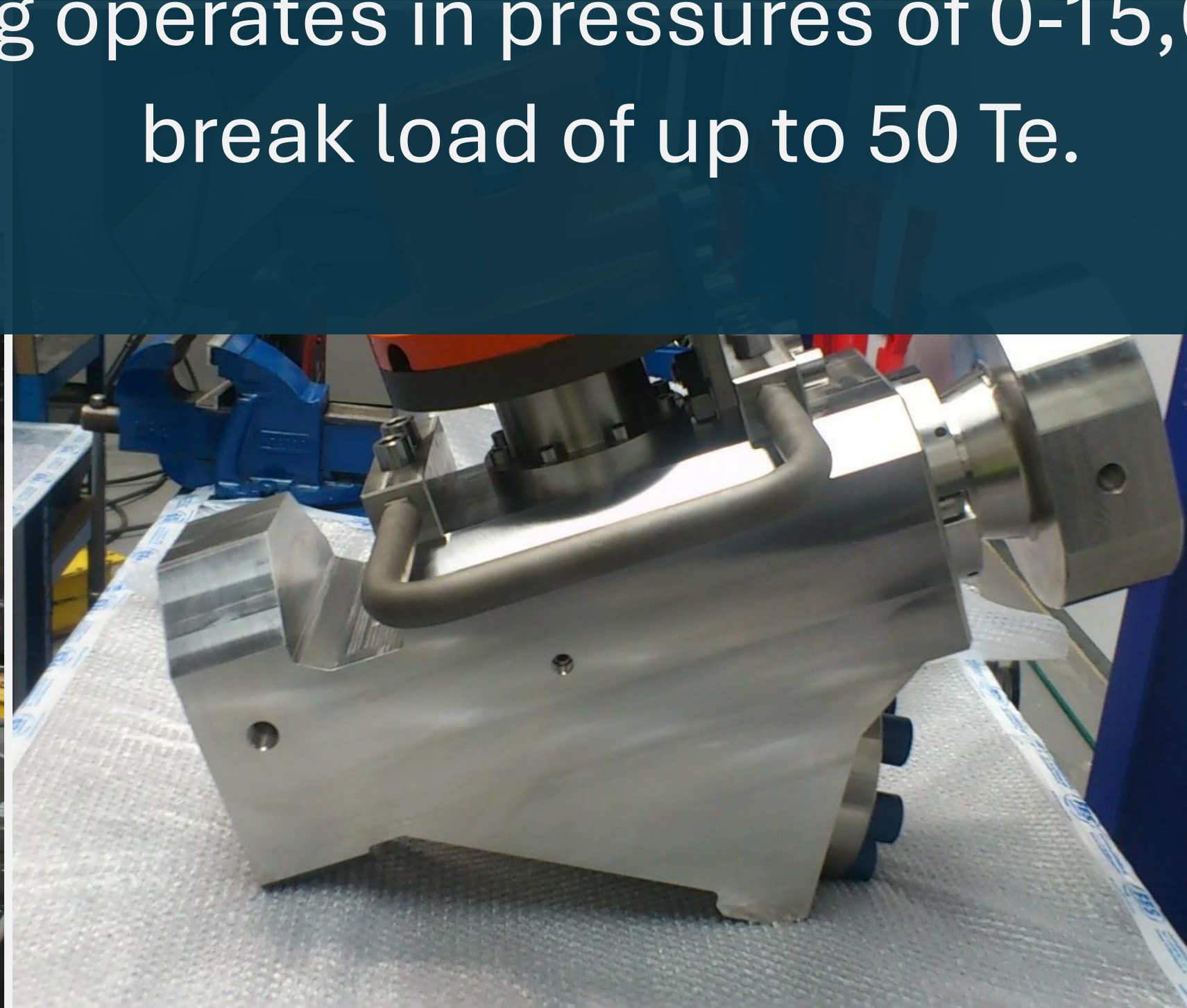
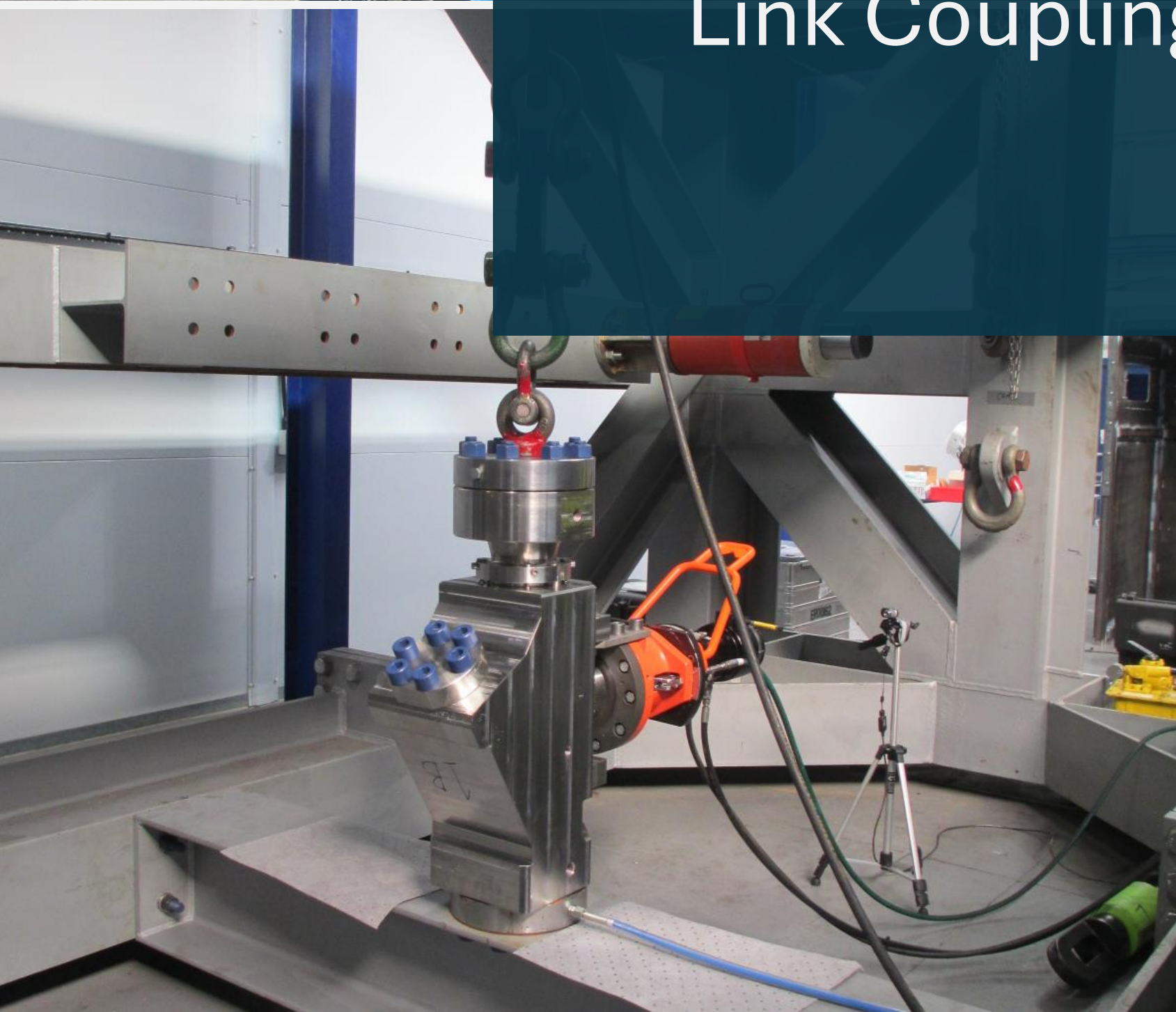


PRESSURE BALANCED WEAK LINK COUPLINGS

Valved and unvalved designs to suit a range of requirements and provide an efficient, safe solution in breakaway scenarios



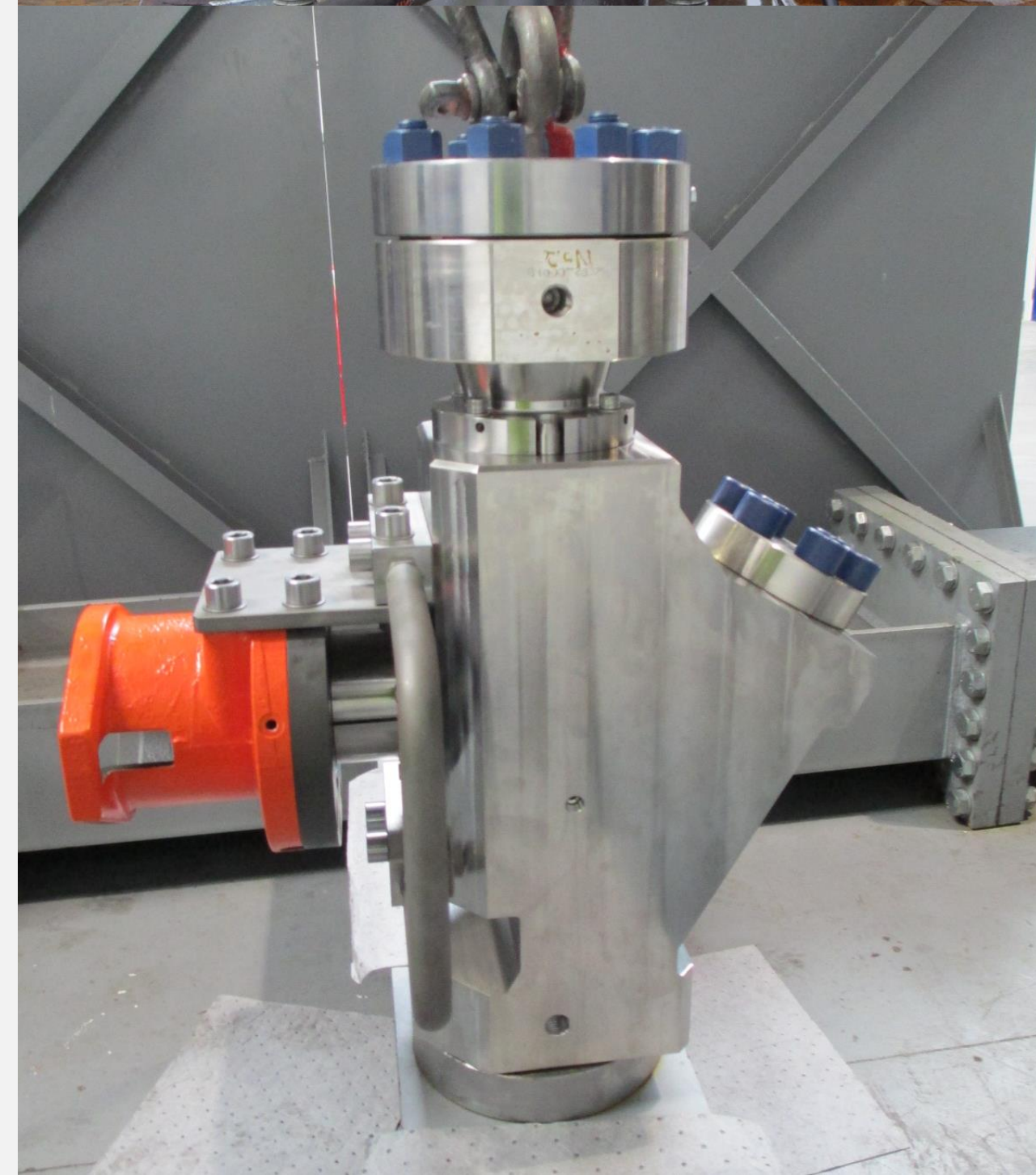
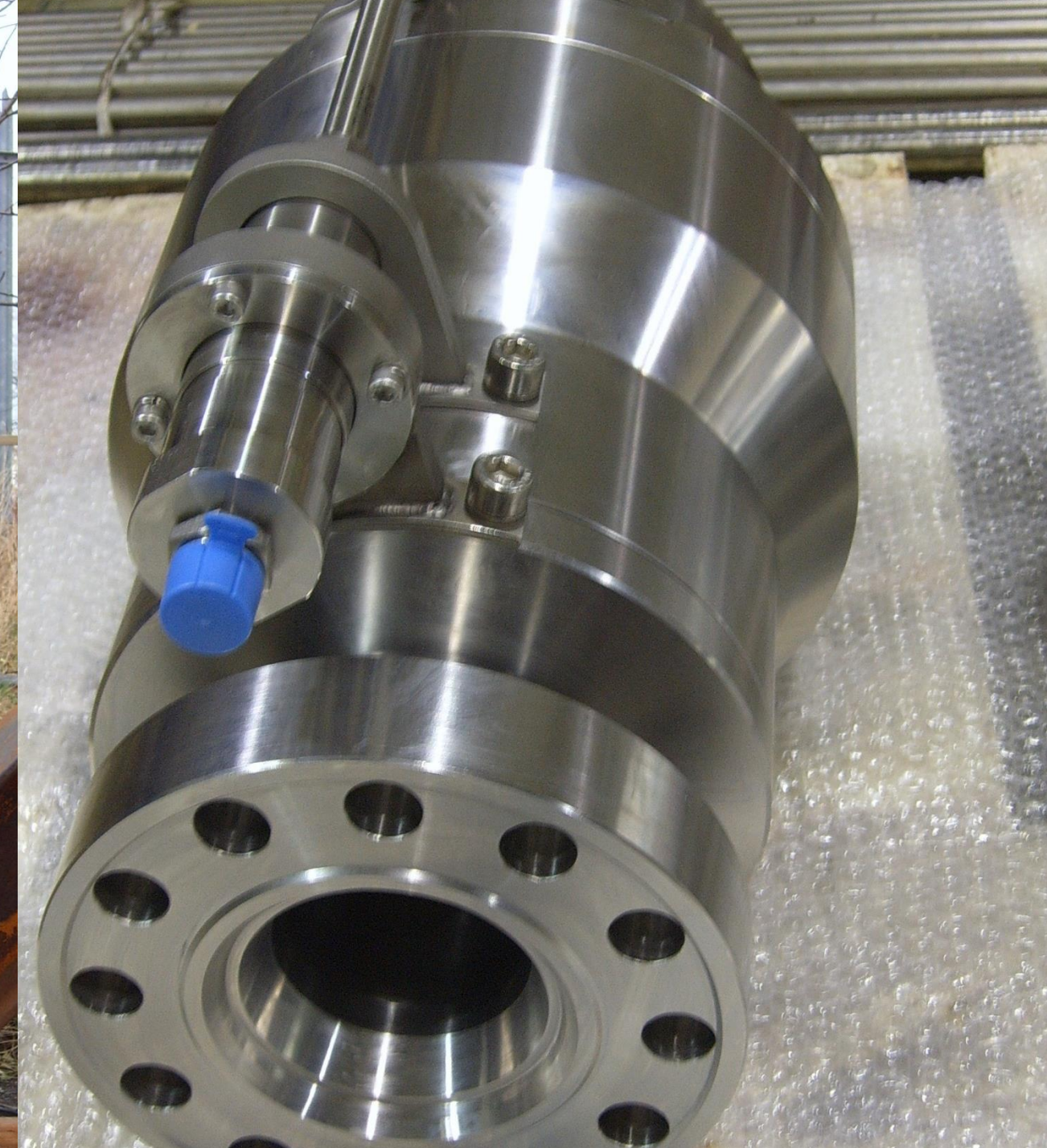
Ranging in size up to 12" bore the FES Pressure Balanced Weak Link Coupling operates in pressures of 0-15,000 PSI with a break load of up to 50 Te.



KEY FEATURES

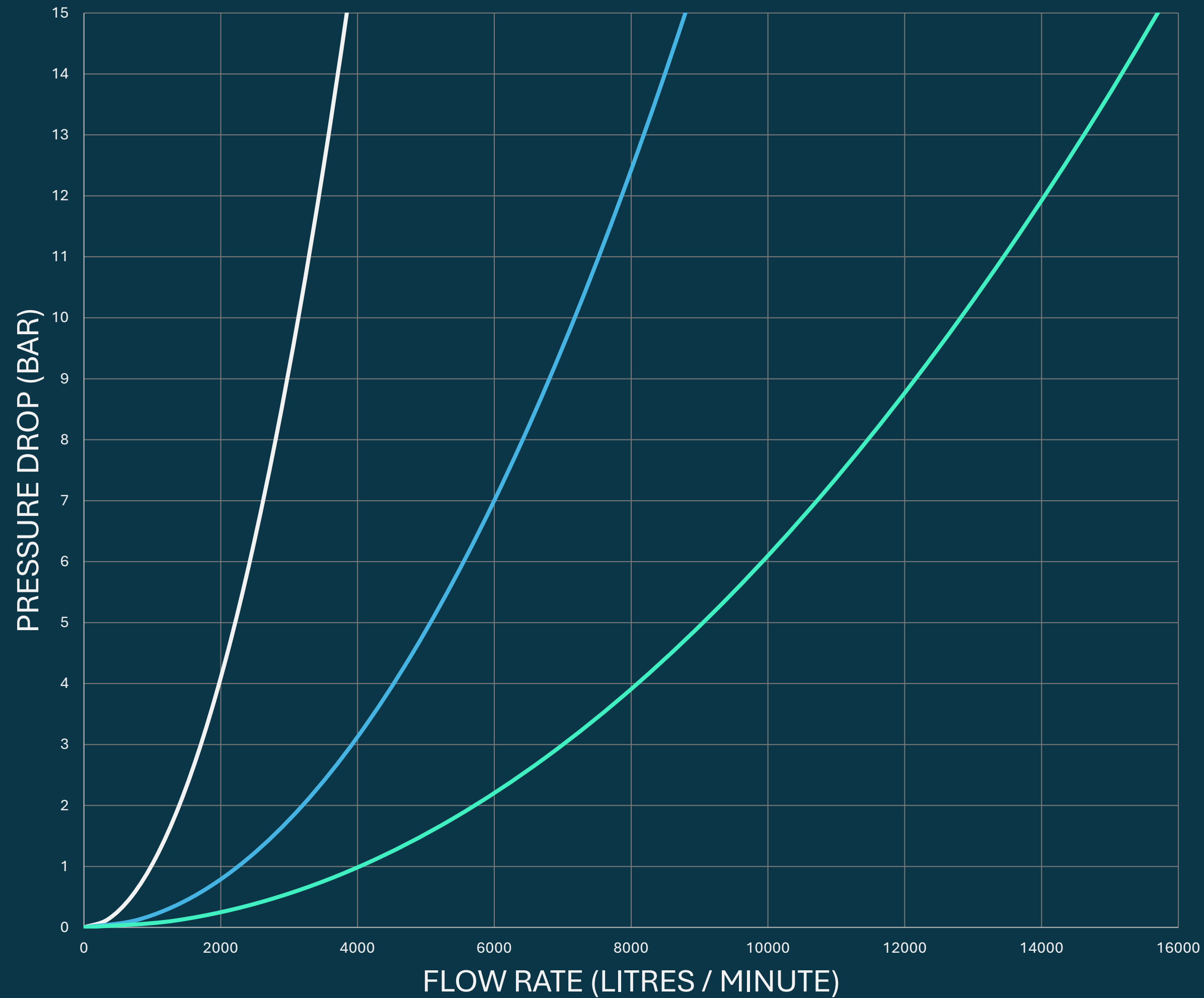
FES Pressure Balanced Weak Link Coupling

- Size range from ¼” up to 12” Bore
- Pressure ranges from 0 – 15,000 PSI
- Breaking loads from 0.5 Te – 50.0 Te
- Materials – Carbon Steel (Plated), Stainless Steel, Duplex, Nitronic, Inconel 718 and many other exotic materials
- All component parts are replaceable and fully interchangeable
- Various hose end connections available on request
- Minimum fluid loss on disconnection with single and dual valved designs available
- Third party classification society approved hydrostatic testing and breakaway program
- Optimised design for maximum weight and cost savings

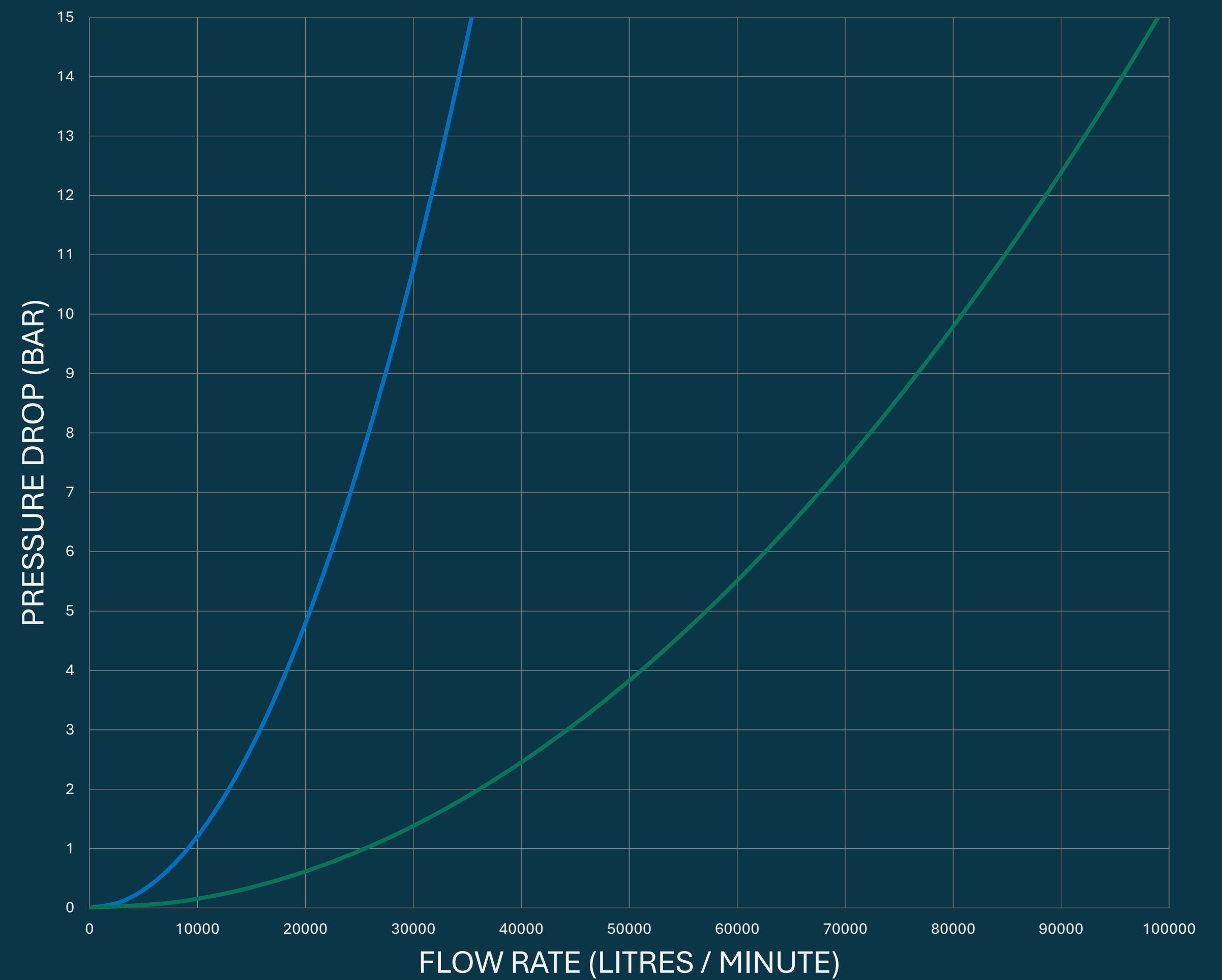


PBWL – PRESSURE DROP

FULL BORE DESIGN (NON-VALVED) - LIQUID



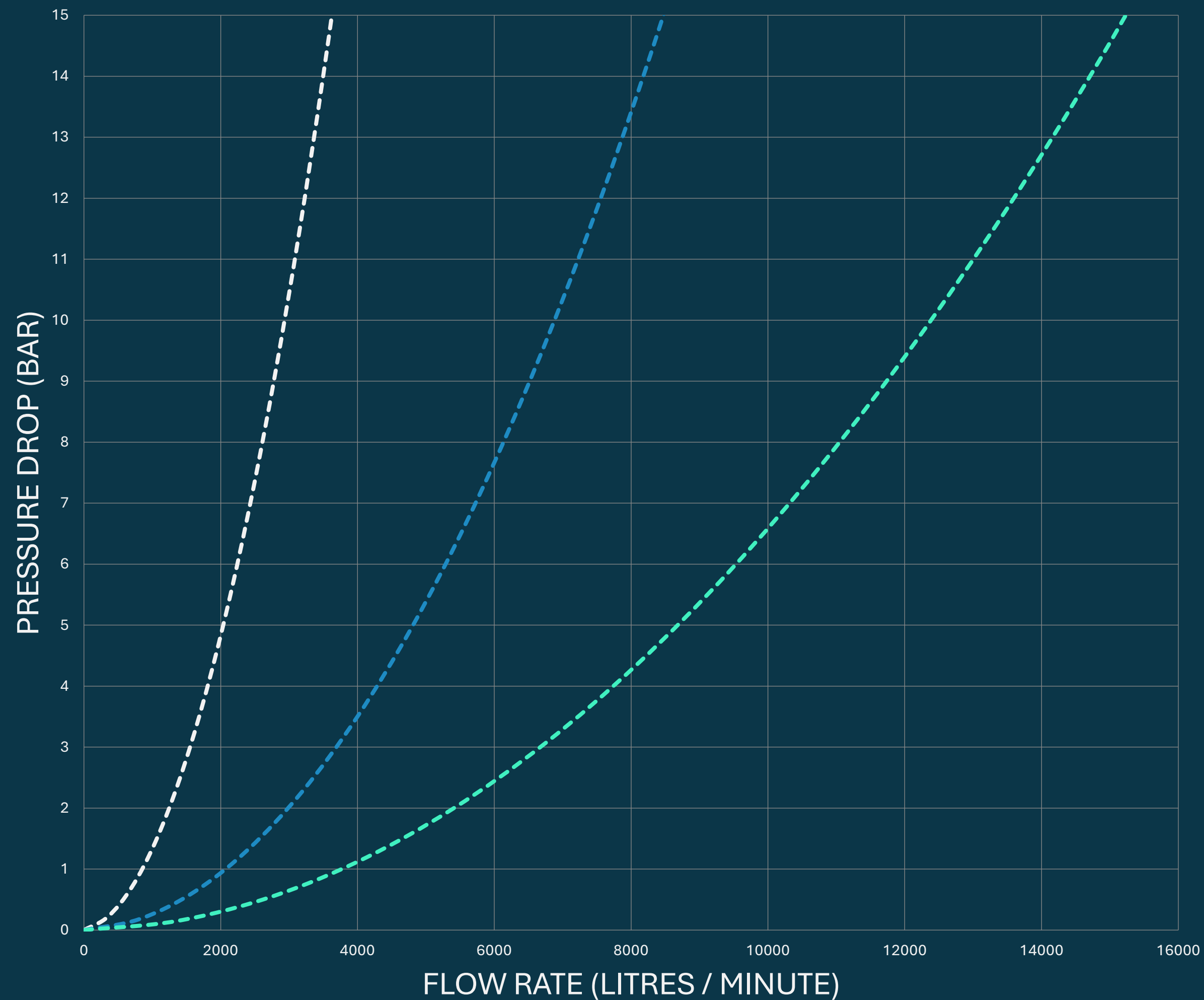
— 2" PBWL - Liquid — 3" PBWL - Liquid — 4" PBWL - Liquid



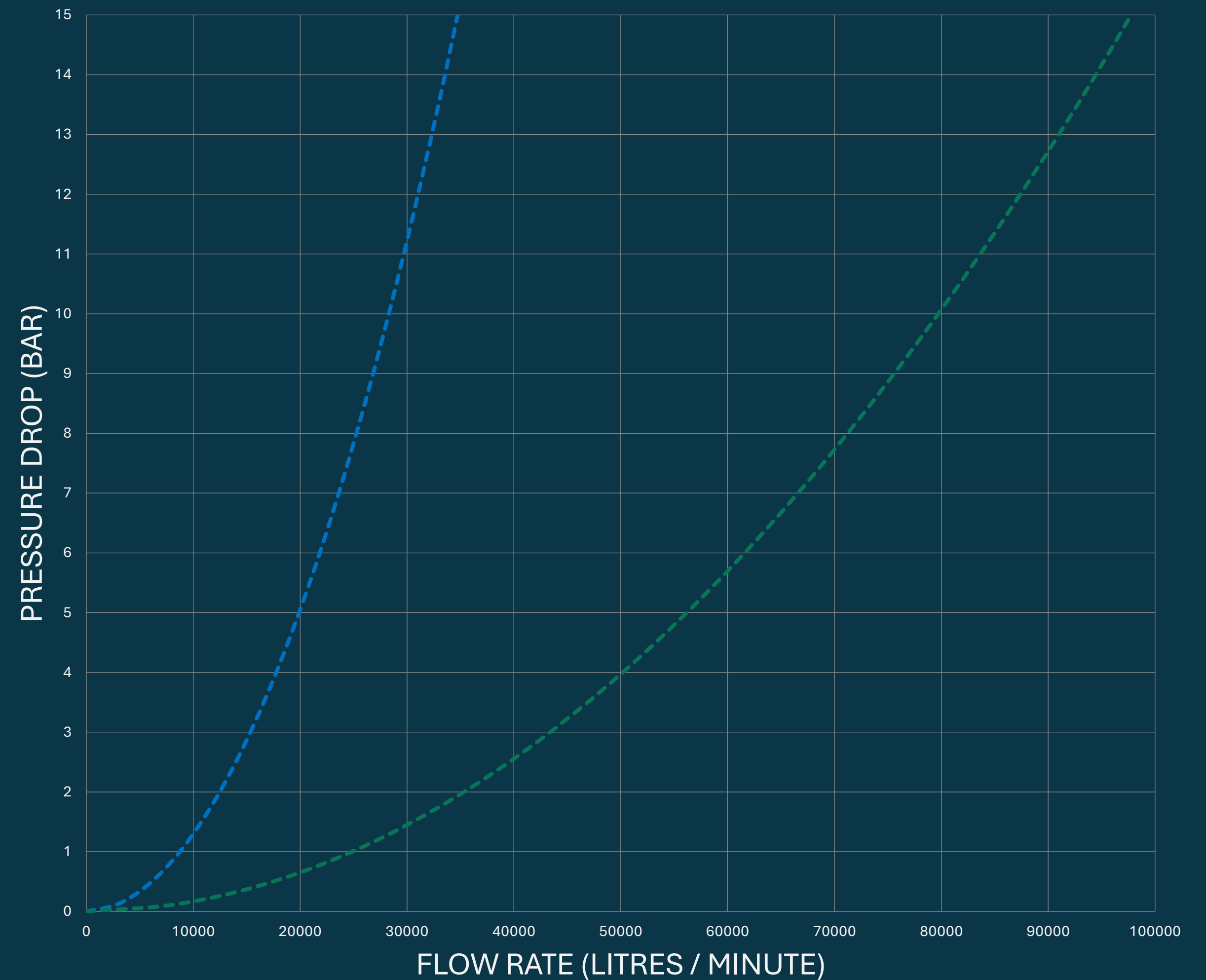
— 6" PBWL - Liquid — 10" PBWL - Liquid

PBWL – PRESSURE DROP

FULL BORE DESIGN (NON-VALVED) - GAS



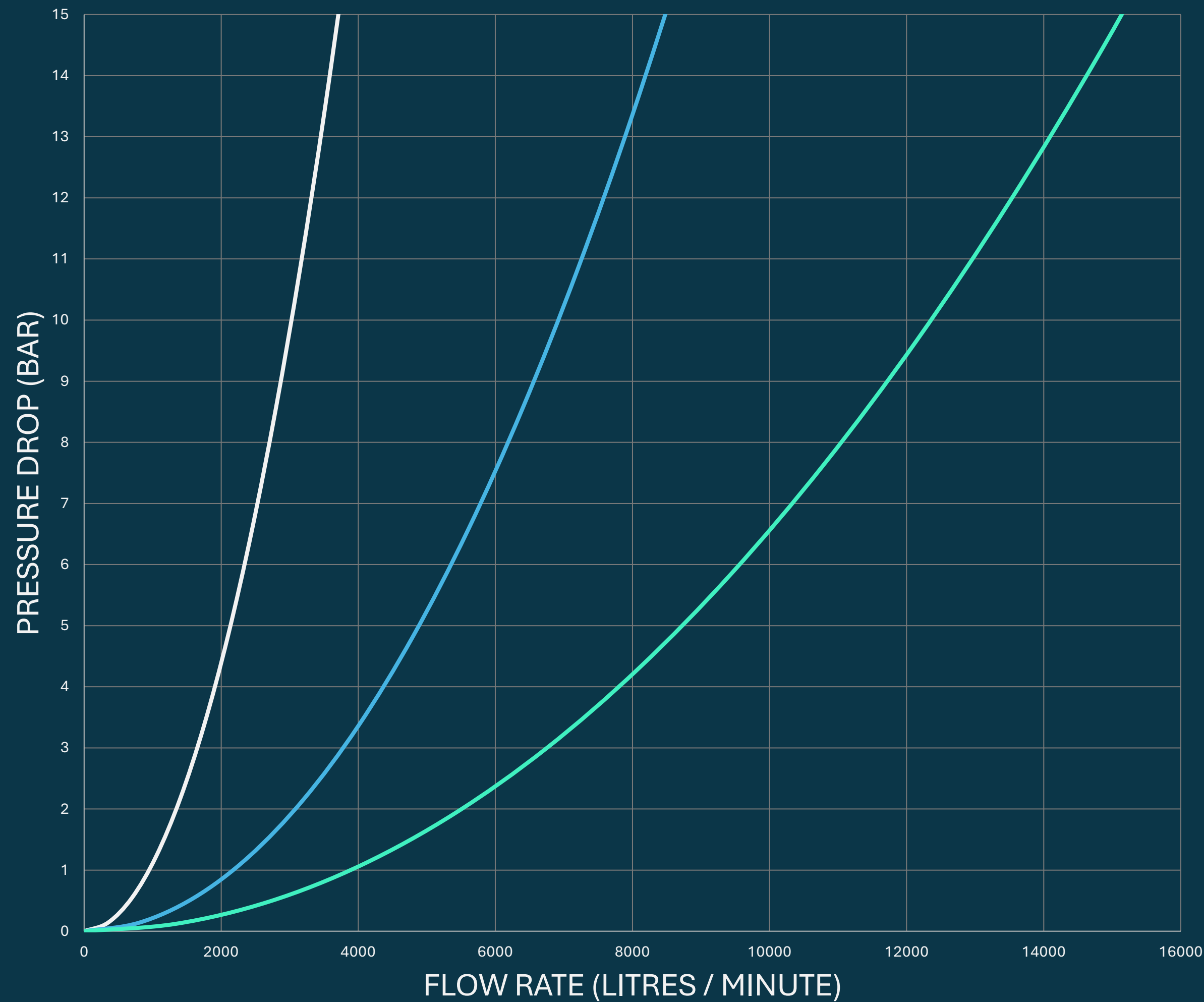
-- 2" PBWL - Gas - - 3" PBWL - Gas - - 4" PBWL - Gas



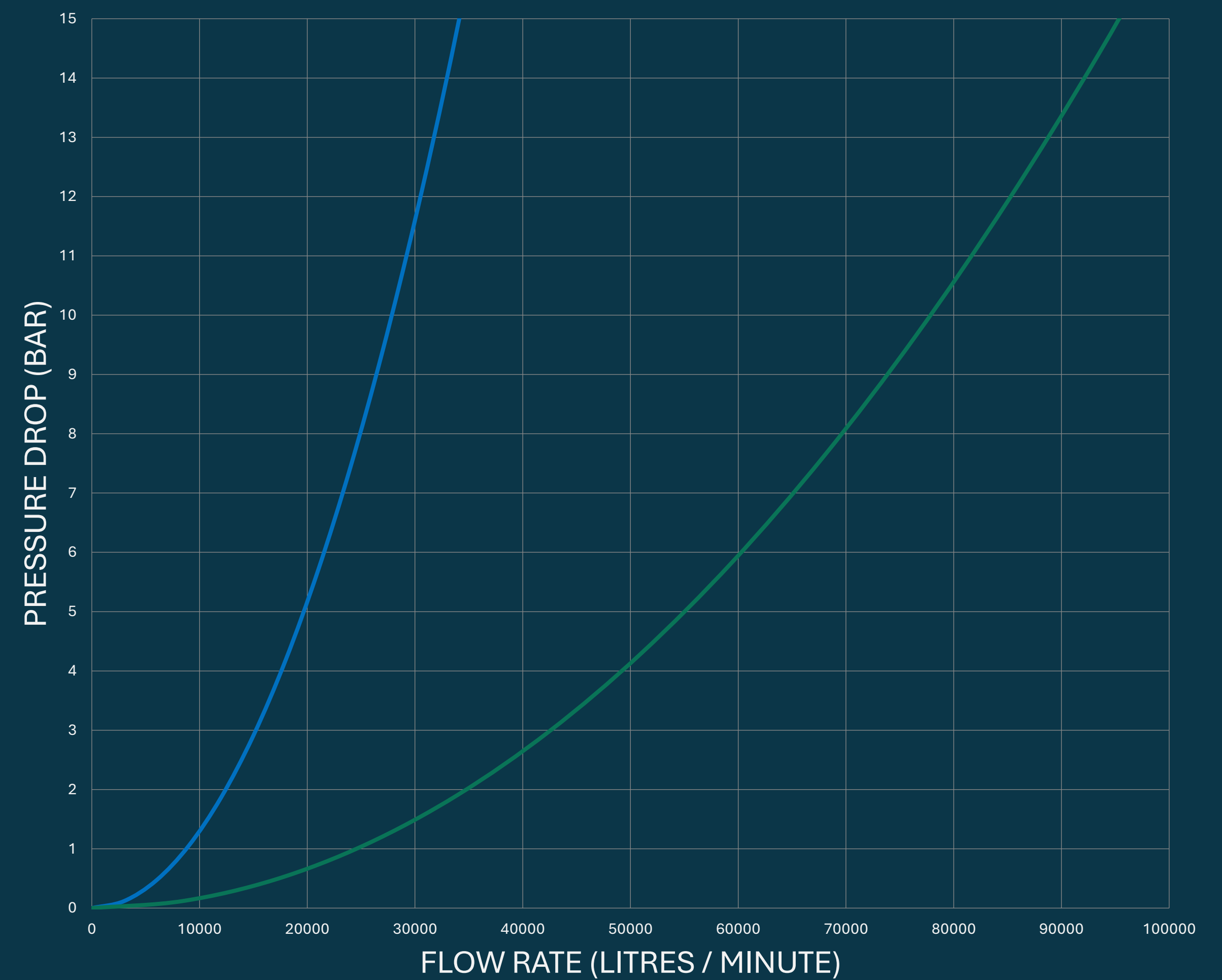
- - 6" PBWL - Gas - - 10" PBWL - Gas

PBWL – PRESSURE DROP

VALVED DESIGN - LIQUID



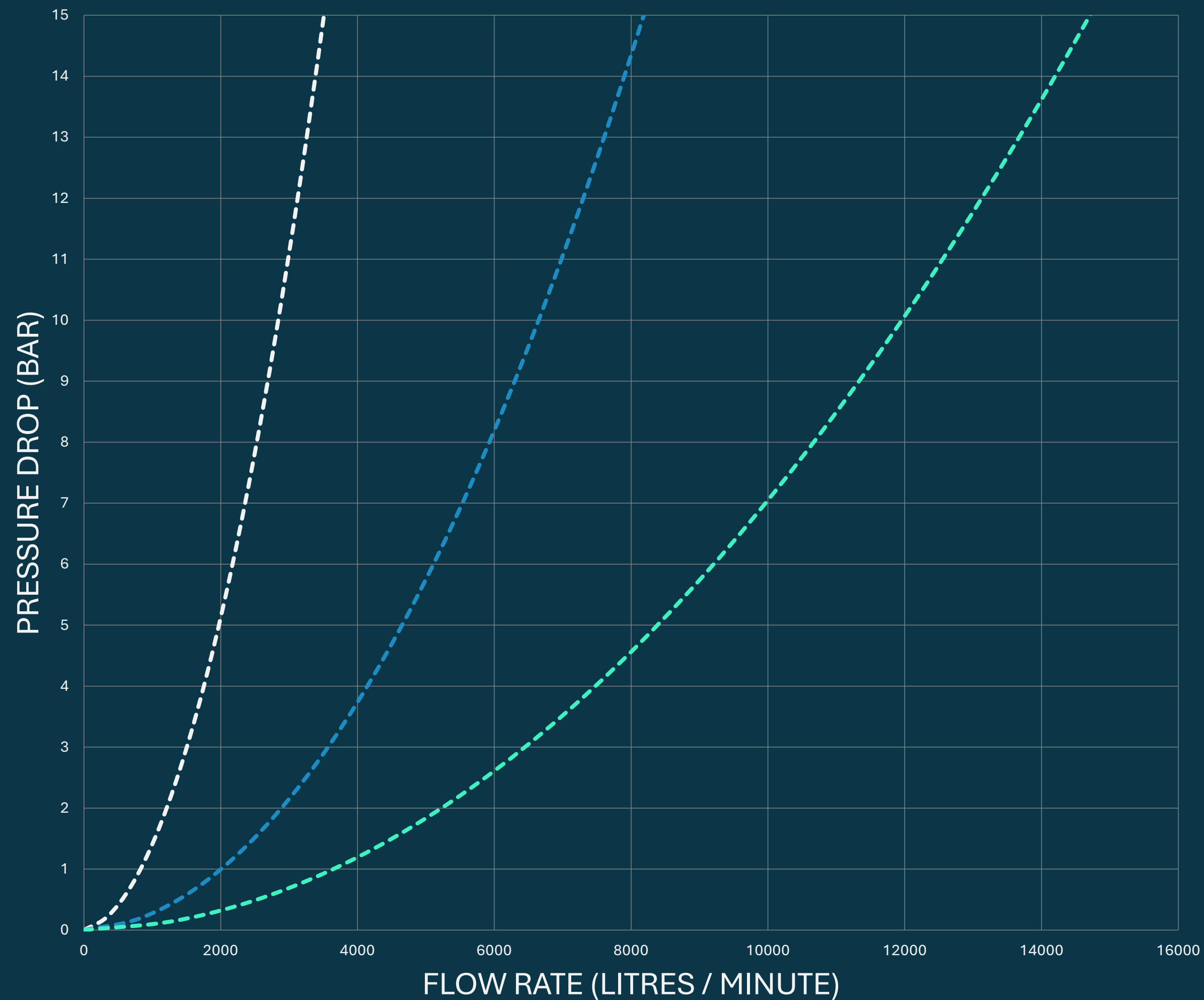
— 2" PBWL - Liquid — 3" PBWL - Liquid — 4" PBWL - Liquid



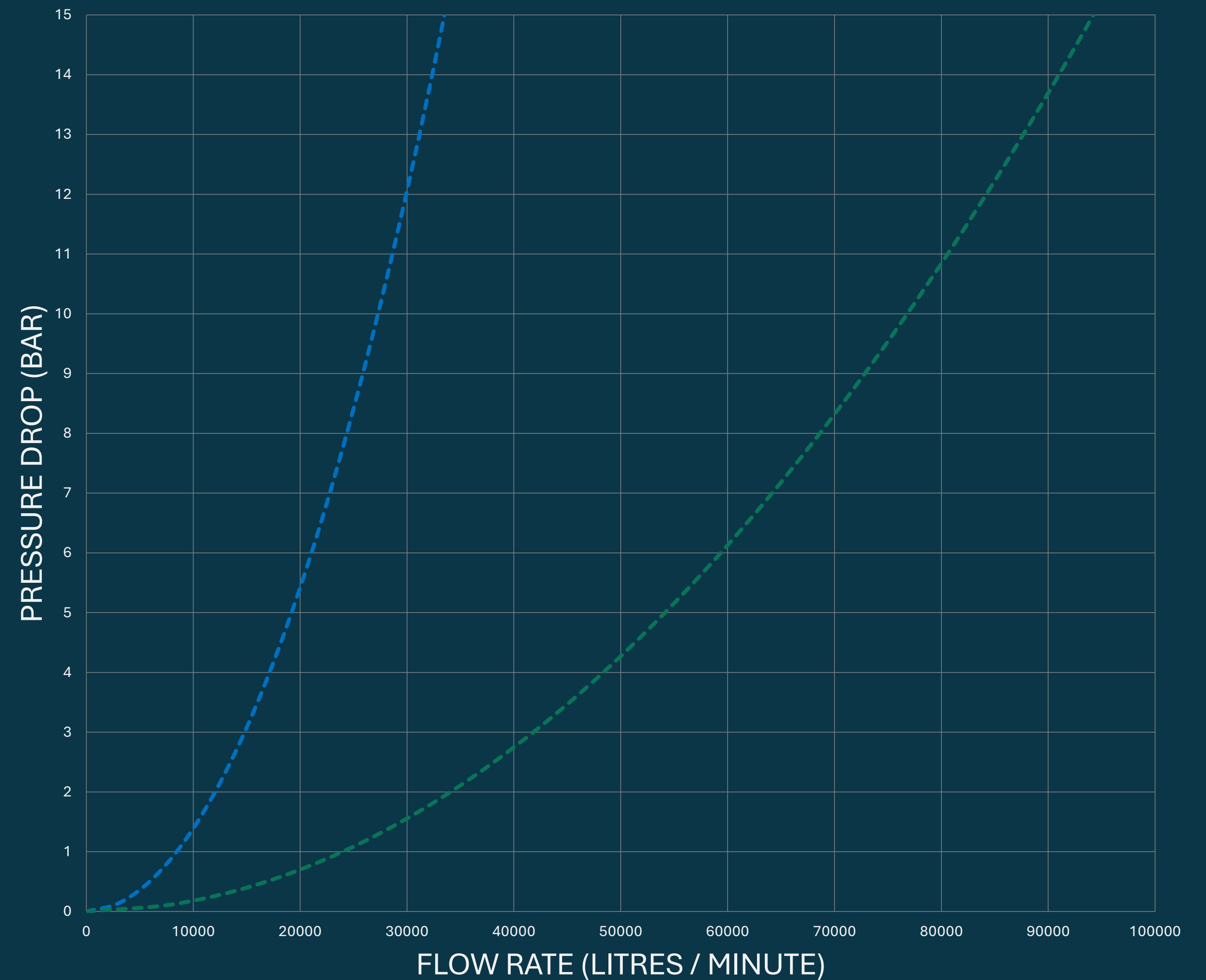
— 6" PBWL - Liquid — 10" PBWL - Liquid

PBWL – PRESSURE DROP

VALVED DESIGN - GAS



-- 2" PBWL - Gas - - 3" PBWL - Gas - - 4" PBWL - Gas



- - 6" PBWL - Gas - - 10" PBWL - Gas

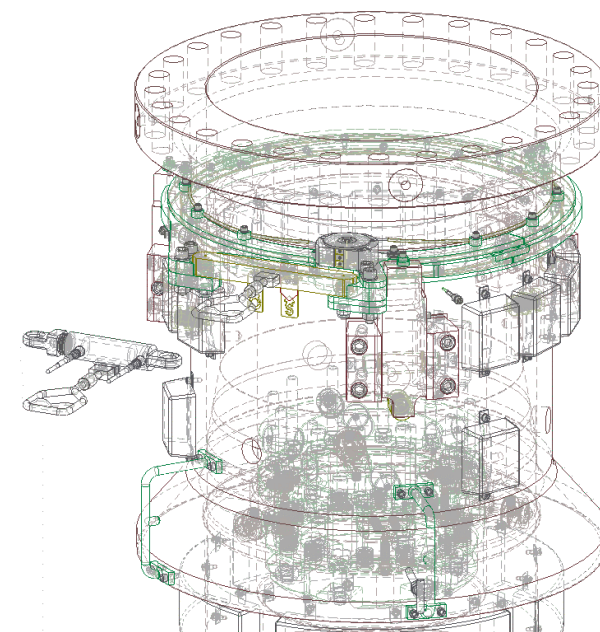
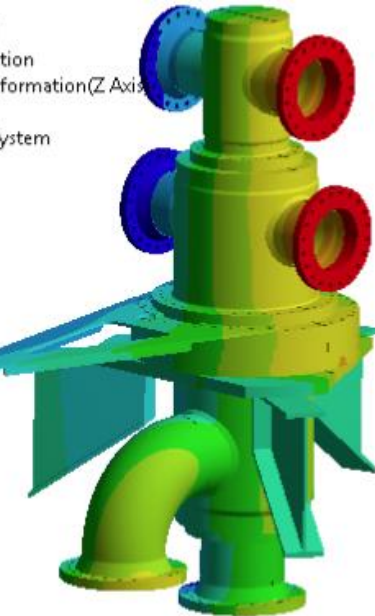
DESIGN & ANALYSIS

FES International utilise highly qualified technical personnel and the latest software to design and analyse our products



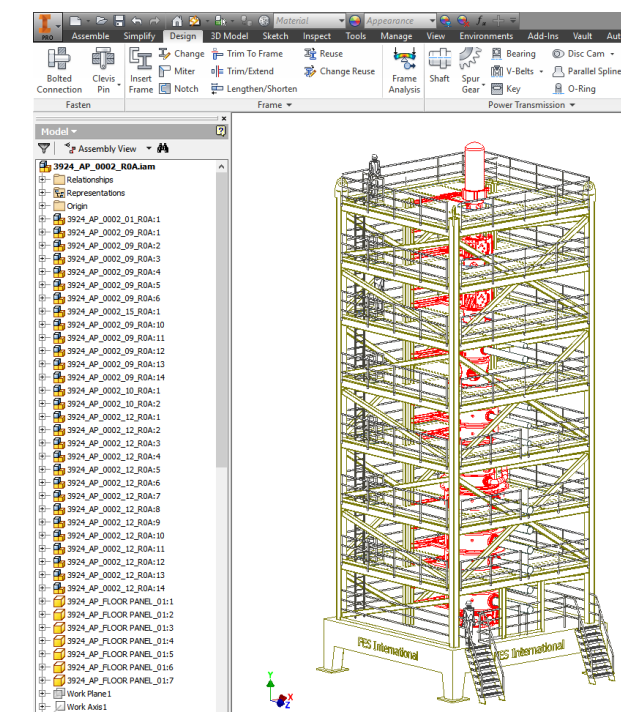
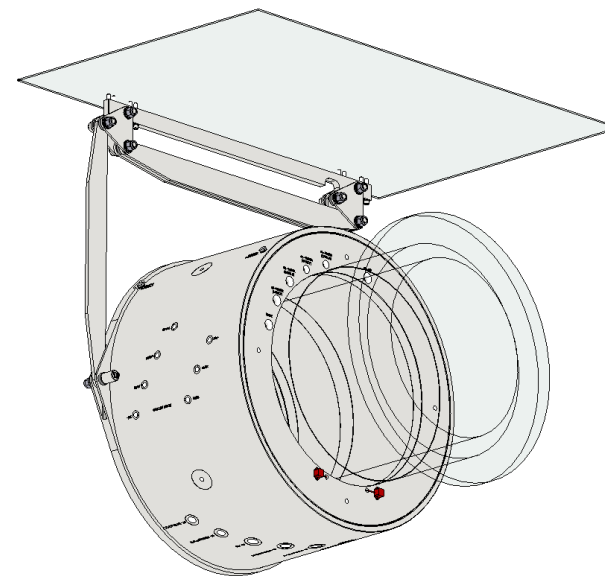
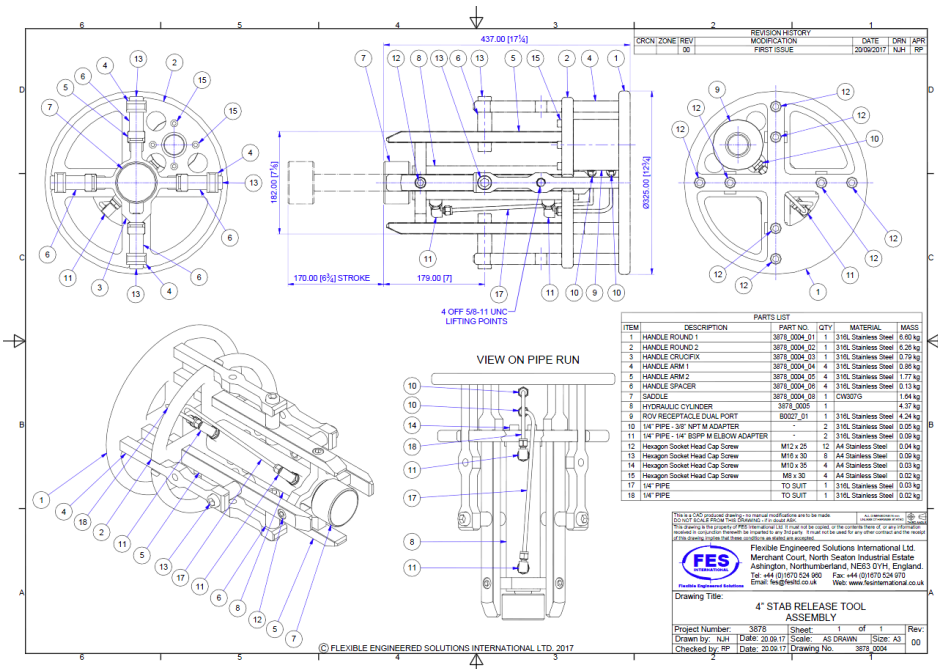
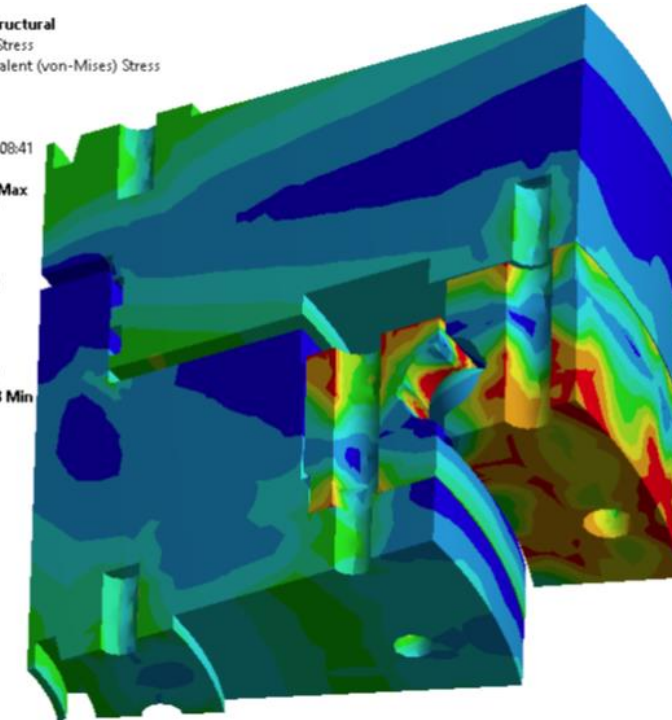
B: Static Structural
Directional Deformation
Type: Directional Deformation(Z Axis)
Unit: mm
Global Coordinate System
Time: 1
16/03/2018 08:59

5.2423 Max
4.3583
3.4744
2.5904
1.7064
0.82246
-0.061515
-0.94549
-1.8295
-2.7134 Min



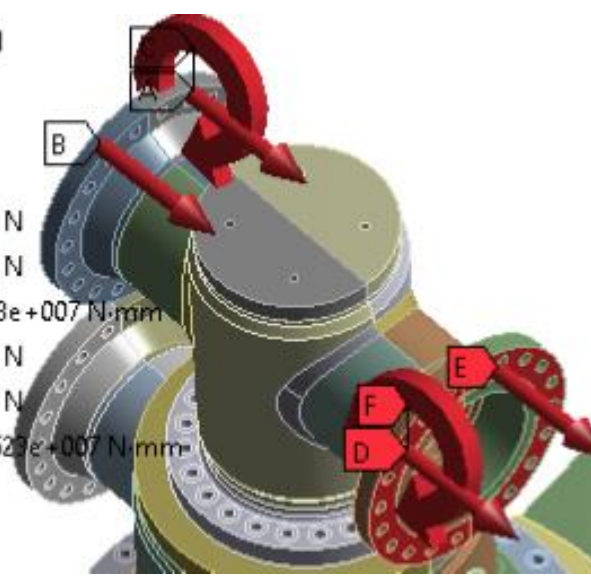
B: Static Structural
Equivalent Stress
Type: Equivalent (von-Mises) Stress
Units: MPa
Time: 1
Custom
20/10/2016 08:41

434.9 Max
386.77
338.63
290.5
242.36
194.23
146.1
97.963
49.829
1.6948 Min

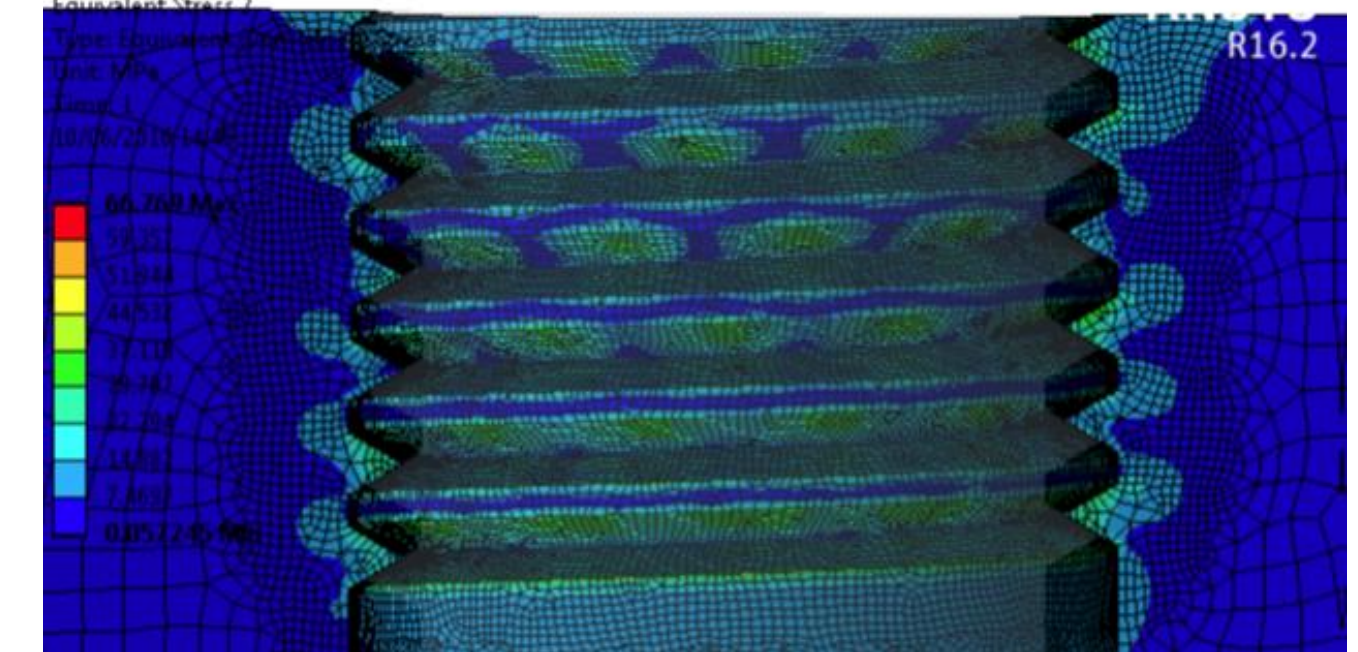


B: Static Structural
Moment 3
Time: 2. s
16/03/2018 11:23

A Force 14: 16361 N
B Force 15: 16361 N
C Moment: 3.1623e+007 N-mm
D Force 18: 16361 N
E Force 19: 16361 N
F Moment 3: 3.1623e+007 N-mm



A: Static Structural
Equivalent Stress 2

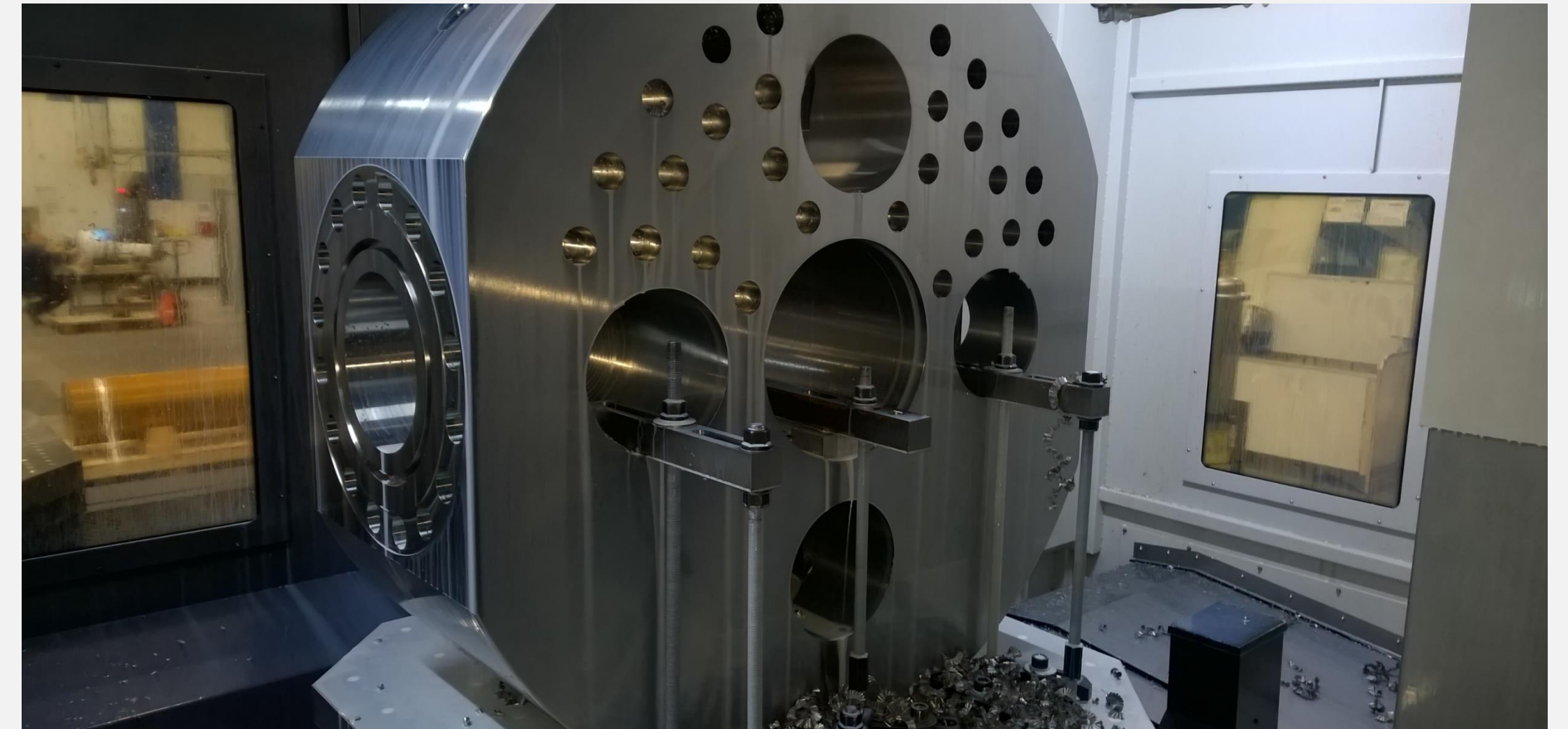
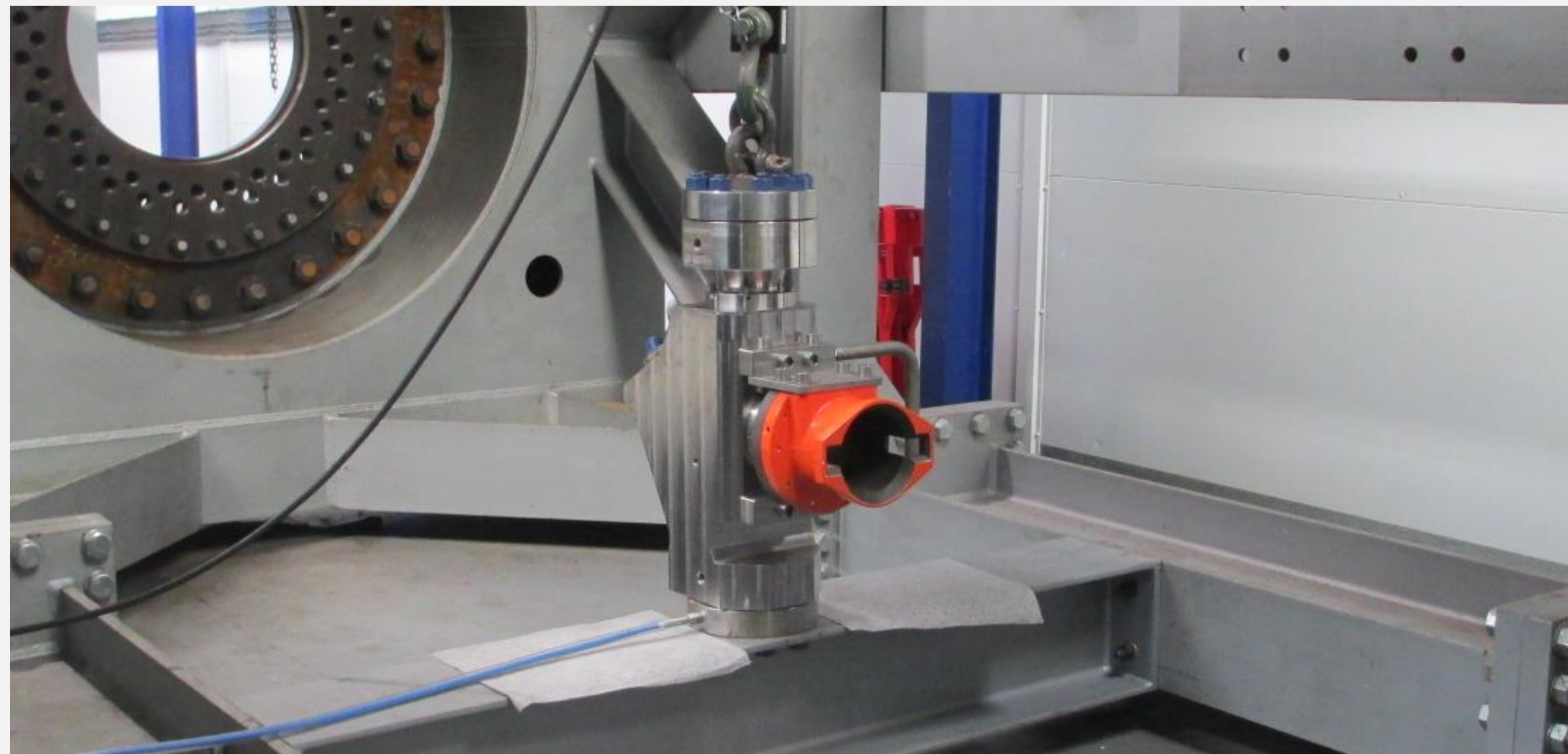


A combination of calculations in accordance with industry standards, sophisticated computer software & the latest FEA programmes are utilised to achieve the necessary design parameters and a first class engineered solution to each client project specification.

MANUFACTURE, ASSEMBLY & TESTING

MANUFACTURE

All components are designed and manufactured by FES International and approved sub suppliers, ensuring that we retain control of product quality and material traceability.



ASSEMBLY & TESTING

In-house assembly and testing facilities ensure all test procedures and inspection & testing plans are strictly adhered to.

QUALITY, HEALTH & SAFETY

FES places quality and safety at the heart of everything we do



Certificate
No:33532021



Certificate
No:114742021



Certificate
No:204072021

QUALITY MANAGEMENT

Our quality management system has been assessed and accredited to ISO 9001:2015

Further illustrating our commitment to QHSE, our quality management system has also been assessed and certified to the stringent industry specification API Q1.

HEALTH & SAFETY

Our health and safety management system has been assessed and accredited to OHSAS 45001:2018

ENVIRONMENTAL

FES has been assessed and accredited to ISO 14001 certification for environmental management.

Contact Us

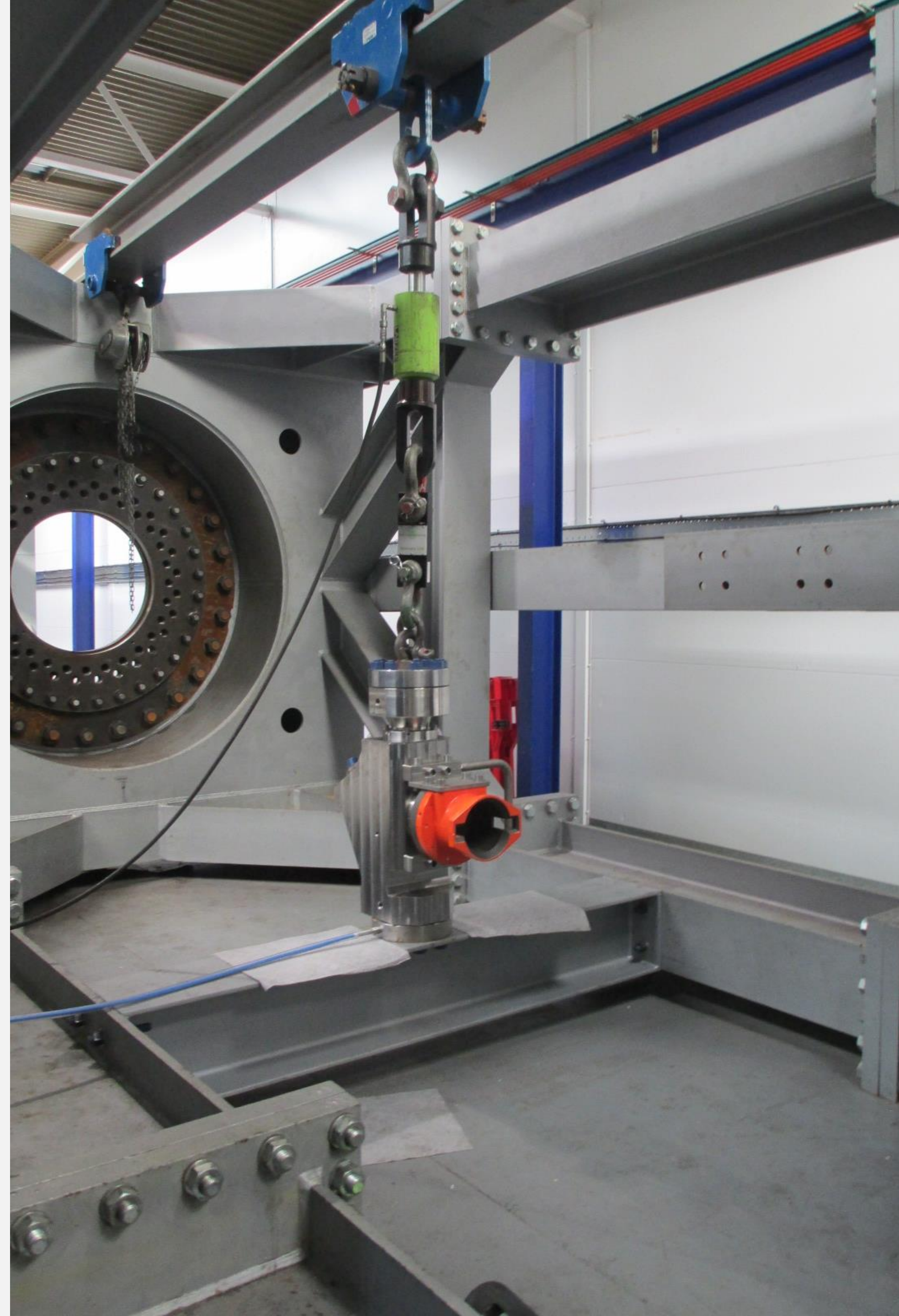
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Other Locations

Worldwide locations, including:

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- China
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- Nigeria
- Russia
- Singapore
- South Korea
- Trinidad & Guyana
- United Arab Emirates
- Vietnam



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