



Drain Kit Solution

Siemens	
- 2.3MW MK II – 93	B5109 – One Blade
- 2.3MW MK III – 101 and 108	B4787 – One Blade
- 2.3MW MK III FSE Manifold – 101 and 108	B5541 – One Blade
Gamesa	
- G80, G83 & G87	B5220 – Complete Kit
Vestas	
- V80 MK 1-7 & V90 1.8-2.0MW	B5220 – Complete Kit

Purpose

The overall operating conditions for a pitch cylinder is extremely demanding and requires top class design and components to ensure trouble free operation.

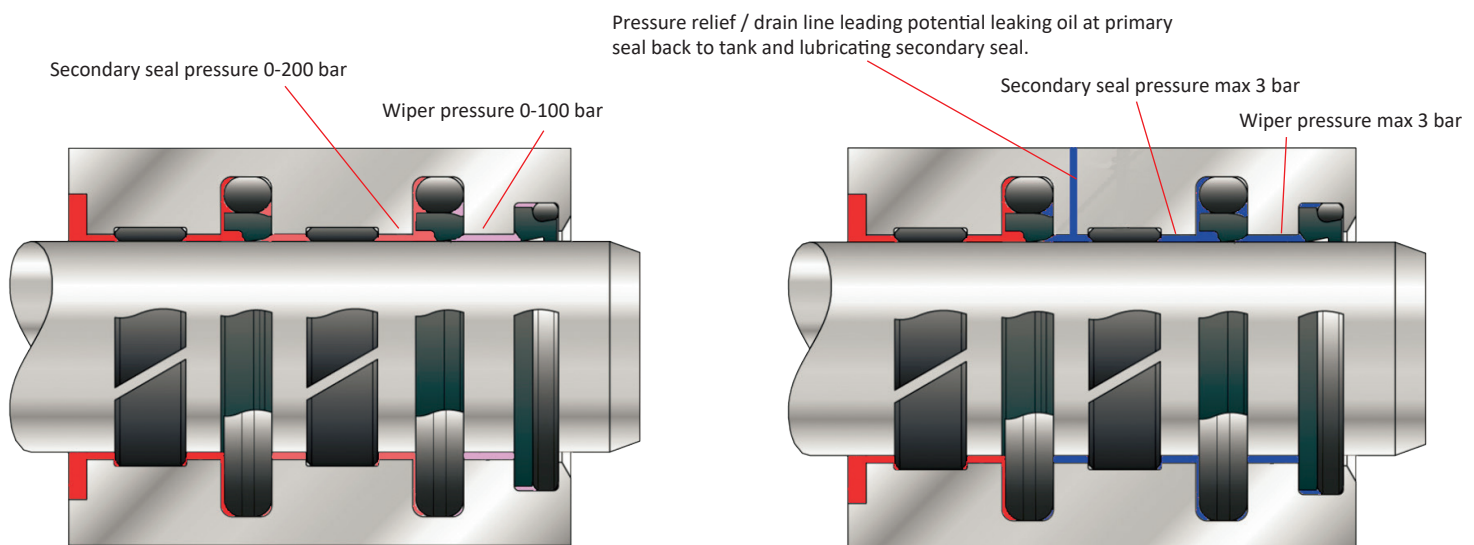
Seal system with low overall wear rate on rod and seals will significantly reduce the risk of leakage into hub by leading potential leakage at primary seal back to tank.

Pressure is thereby reduced from 0-200 bar to 0-3 bar on the secondary seal. Also, the contaminated oil is led back to tank, which again causes less wear on seals and rod.

Solution

Original rod seal system, without pressure relief/drain line.

New rod seal system, with pressure relief/drain line.



Similar solutions are mounted in numerous turbines for Siemens 3.0 MW MK I and 2.3 MW MK III & MK IV turbines world-wide.

Related documentation can be retrieved by contacting servicehwp@hydrathec-industries.com "Introduction of drain line" and "assemble notes".

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