

Hi-Flo™ RS Valves - Easily Replaceable in the Most Remote Locations

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The Challenge

Off-shore oil rigs and remote refineries are limited in their capacity to perform complex maintenance and refurbishing. They often have minimal staff and are lacking in repair machinery, space, and time to ship equipment to get serviced efficiently and safely.

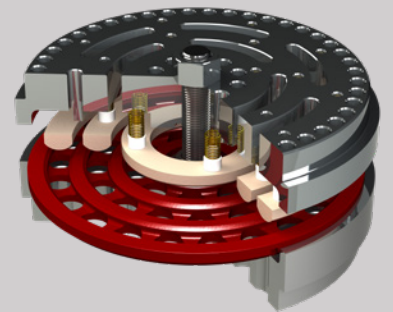
Solution Highlights

Hi-Flo™ RS valves are easily refurbished on site without having to ship them out for maintenance

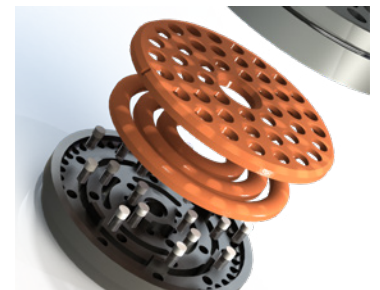
Replaceable seat eliminates wear to valve body

Because the new seat plate is the same dimensions as the original, there is no need to make the complicated adjustments using shims and gaskets when reinstalling the valve

The Hi-Flo™ RS valve reduces inventory, which is most beneficial in locations with limited storage space



“The CPI Hi-Flo RS is the response to our problems. We don’t need to re-machine or use special tooling for maintenance. Furthermore, we don’t need to keep complete valves in stock — only rebuild kits. We have also reduced the unscheduled shutdown time.”
- CPI Customer

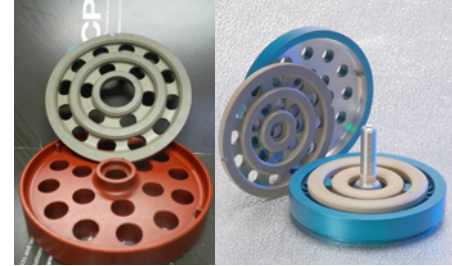


The Solution

After speaking with a customer in the Congo about their specialized needs as a remote operation, CPI, part of the Howden group began working on a product that is quick to install, easy to maintain and minimizes inventory.

CPI developed the Hi-Flo™ RS valve which features a replaceable PEEK seat plate as a solution. This is the same rugged and durable material that the sealing rings are made from. The difference in strength of the replaceable PEEK seat plate compared to a traditional seat is negligible, as proven by numerous engineering studies and field tests.

These valves have the benefits of CPI's Hi-Flo™ RD valves with the added benefit of enabling on-site maintenance that doesn't require special tooling or skill set.



Successful Upgrades Around the Globe

COUNTRY	APPLICATION	COMPRESSOR MAKE/MODEL	# OF STAGES	FINAL DISCHARGE PRESSURE
Gabon	Natural Gas	Ariel JGK/4	3	84.5 Bar (1226 psi)
Congo	Natural Gas	Thermodyn	3	67 Bar (972 psi)
Gabon	Natural Gas	Ariel JGE/4	4	174 Bar (2524 psi)
Gabon	Natural Gas	Thermodyn GMVH	2	59 Bar (856 psi)
Congo	Natural Gas	Nuovo Pignone 6HM3	3	81 Bar (1175 psi)
Cameroon	Natural Gas	Worthington HB	1	41.4 Bar (600 psi)
Cameroon	Natural Gas	Worthington BDC	1	52 Bar (754 psi)
The Netherlands	Propane/Propylene	Neuman & Esser 3TZS80	3	25 Bar (363 psi)
Rwanda	Natural Gas	Dresser-Rand 4RDSA-2	2	20 Bar (290 psi)
Sweden	Hydrogen/ Ammonia Mix	LMF B182	2	132 Bar (1914 psi)
South Africa	Refinery Hydrogen Mix	Ingersoll-Rand	1	15.8 Bar (229 psi)
Germany	Natural Gas	Ariel KBZ 4	1	70 Bar (1015 psi)
Oman	Methane	Cooper MW64	3	78 Bar (1134 psi)
Serbia	Ethylene	Ingersoll-Rand 6HHE	1	97 Bar (1413 psi)
Russia	Hydrocarbons	Sumy-Frunze 4M16M c	1	59 Bar (856 psi)
Sweden	Refinery Hydrogen Mix	Clark CMA2	1	36 Bar (522 psi)
Gabon	Refinery Hydrogen Mix	Worthington HB	1	41.4 Bar (600 psi)
Gabon	Refinery Hydrogen Mix	Worthington BCD	1	52 Bar (754 psi)
Congo	Refinery Hydrogen Mix	Thomassen C72	2	30.7 Bar (445 psi)
Gabon	Refinery Hydrogen Mix	Burton Corblin P166M	1	29 Bar (420 psi)