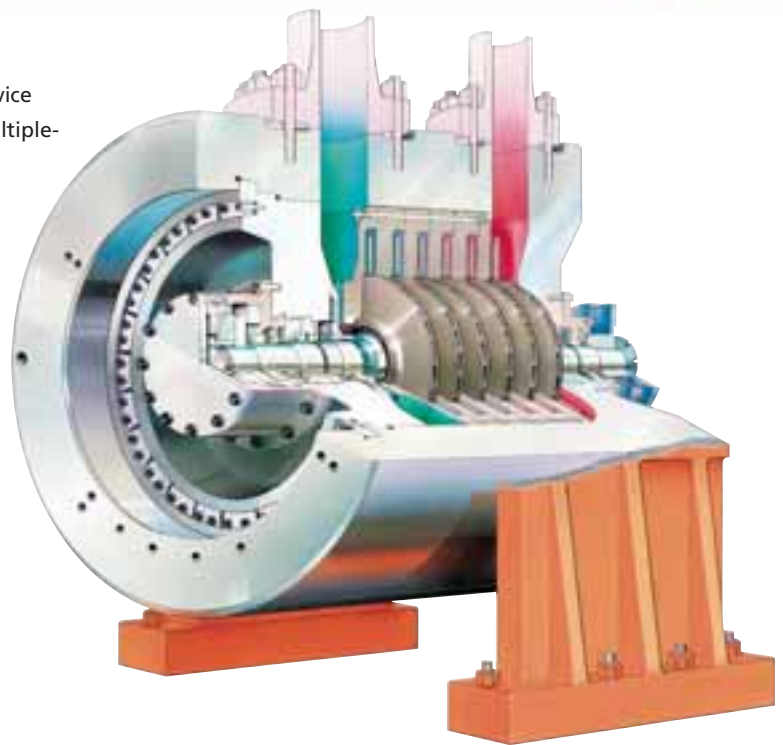


Rolls-Royce multi-stage barrel centrifugal compressors

energy

Efficiency and long service life

Rolls-Royce barrel centrifugal compressors are used in natural gas gathering, storage, lift and reinjection service worldwide. Installations range from single units to multiple-unit trains driven by gas turbines or electric motors. Aerodynamic efficiency and long operating life are characteristic of Rolls-Royce barrel compressors, which are available in four frame sizes with up to nine compression stages. Complete systems for onshore or offshore applications are designed, manufactured and supported by Rolls-Royce.

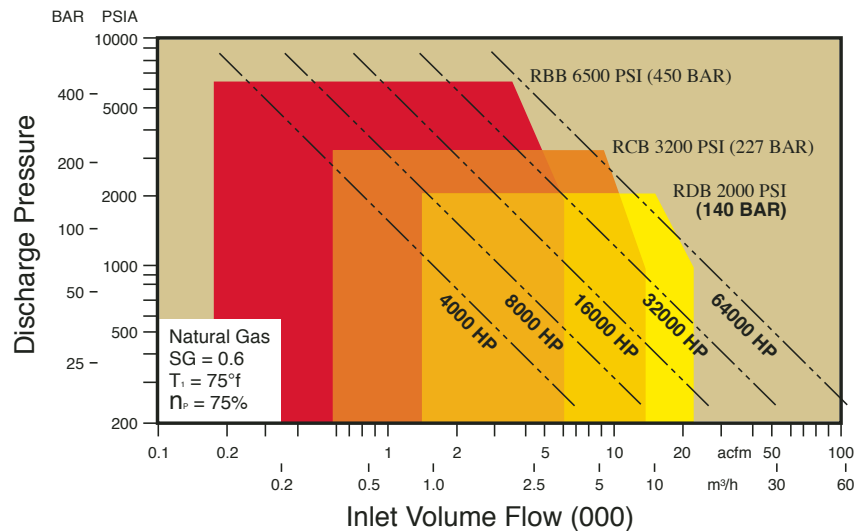


		Max Working Pressure		Max Flange Size		Number of Stages	Maximum Power	Design Speed	Impeller Diameter	Max Design Inlet Flow
		psig	bar	Inlet	Discharge					
Natural gas production applications	RBB	6,500	450	16	10	1-9	35,000	9,000-13,600	16.5	6,000
				405	254		26,100			
	RCB	3,200	227	18	12	1-9	40,000	5,000-10,500	20.5	13,500
				457	305		29,800			
RDB	2,000	140	24	20	1-9	45,000	4,500-7,500	26.5	22,000	
			610	508		33,600				
REB	1,200	85	30	20	1-9	50,000	3,500-6,500	34.0	35,500	
			762	510		37,300				

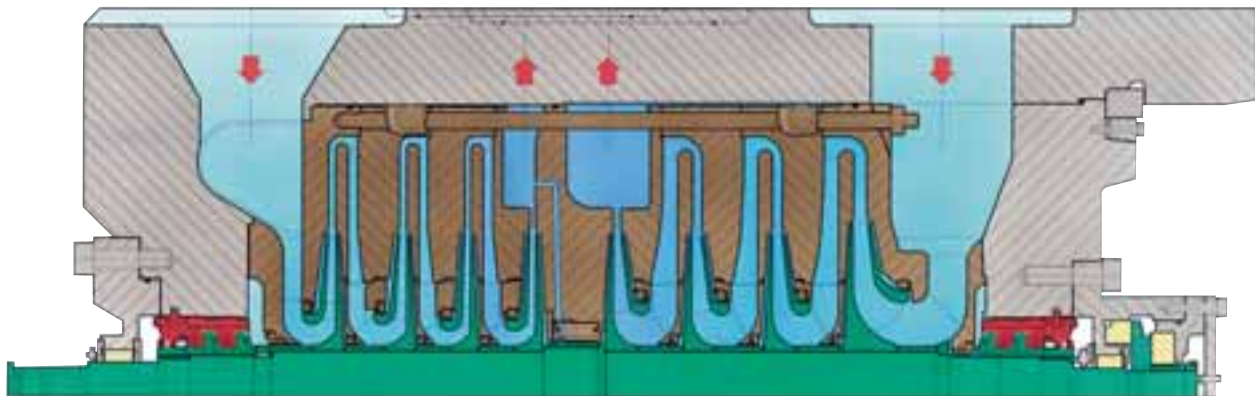
Fact sheet

Multi-stage barrel centrifugal compressors accomplishments/capabilities

- High-ratio natural gas handling applications
 - Gathering Depletion
 - Reinjection Storage/withdrawal
 - Lift Repressurization
- Compressor connected to Rolls-Royce gas turbines by
 - Direct couple
 - Gearbox couple
- Rolls-Royce multi-stage barrel centrifugals are well suited for natural gas applications, with extensive worldwide experience
- Multi-national manufacturing sources
 - United States
 - United Kingdom
 - Japan
- Four standard frame sizes designed to API 617
- Vertically split "barrel" casing of fabricated or forged steel



- Aero assembly readily accessible, easily removed without disturbing main gas piping
- End covers retained by segmented shear rings for rapid maintenance access
- Enclosed impeller designs
- Main rotating elements dynamically balanced
- Component tested to 115% of maximum design speed
- Casings hydrostatically tested to 150% of design working pressure
- Tilt-pad type thrust and journal bearings
- Pressurized oil film seals, or dry gas seals for applications to 3,200 psig



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