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Radially-split, multistage, barrel pumps

CP radially-split, multistage barrel pump ISO 13709 / API 610 type BB5

Features and benefits

- Opposed impellers balance axial thrust, with no lube system needed on smaller pumps
- Axially split inner case means rotor balance is not disturbed when installed in the pump
- Dual volute inner case balances radial loads for longer service life
- Twistlock barrel closure reduces maintenance time on lower temperature services
- Cartridge design on larger pumps can speed up pump repair time
- Volute inner case with lower erosion wear on abrasive services

Key characteristics

| Capacities | up to 1'000 m ³ /h / 4'400 USgpm |
|--------------|---|
| Heads | up to 7'000 m / 23'000 ft. |
| Pressures | up to 425 bar / 6'250 psi |
| Temperatures | up to 425°C / 800°F |

Applications

- Water injection
- Offshore crude oil shipping
- Refinery charge
- Boiler feedwater
- Nuclear safety services

GSG diffuser style barrel pump ISO 13709 / API 610 type BB5

Features and benefits

- · Low-pressure, high-pressure, twistlock, and high-temperature designs suit many applications
- Direct drive options up to 6 MW
- · Back-to-back rotor stack allows up to 16 stages on low-density fluids
- Multiple sizes cover a broad hydraulic range

Key characteristics

Capacities up to 900 m³/h / 4'600 USgpm Heads up to 2'600 m / 10'000 ft. up to 300 bar / 4'500 psi Pressures Temperatures up to 425°C / 800°F

Applications

- Onshore or offshore water injection
- Offshore crude oil shipping
- · Refinery charge
- Boiler feedwater

GSG-BFP diffuser style barrel pump

Features and benefits

- Maximum safety due to double casing design, pipework connections remain undisturbed during disassembly
- · High strength barrel material to accept occasional thermal shock
- · Full cartridge pull out for rapid change over
- Design features to eliminate the need for pre-warming in most installations except on larger sizes
- · Long operating life regardless of the operating mode

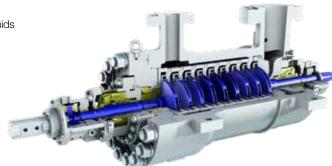
Key characteristics

| Capacities | up to 700 m³/h / 3'080 USgpm |
|--------------|------------------------------|
| Heads | up to 2'500 m / 8'200 ft. |
| Pressures | up to 282 bar / 4'090 psi |
| Temperatures | up to 210°C / 410°F |

Applications

- Feedwater pump
- Nuclear safety services
- 26





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GVG diffuser style barrel pump

Features and benefits

- · Low thrust bearing loads due to opposed impellers (even with worn clearances)
- Excellent rotordynamic behavior because of center bushing
- Forged barrel in chromium steel/austenic stainless steel

up to 1'900 m / 6'230 ft.

up to 200 bar / 2'900 psi

up to 100°C / 212°F

- Full cartridge design to reduce downtime during maintenance
- Double suction impeller at first stage (optional)

Key characteristics up to 65 m³/h / 285 USgpm

Capacities Heads Pressures

Temperatures

Applications

- Control rod drive pump
- High pressure charging pump
- Make up water pump
- · Safety related services for NPP

HPT high pressure barrel pump

Features and benefits

- Maximum safety due to double casing design; pipework connections remain undisturbed during disassembly
- · High strength barrel material to accept thermal shock
- Full cartridge pull out for rapid changeover
- Design features to eliminate the need for pre-warming in most installations
- Long operating life regardless of the operating mode

Key characteristics

Capacities up to 4'000 m³/h / 17'600 USgpm up to 4'200 m / 13'800 ft. Heads up to 545 bar / 7'905 psi Pressures Temperatures up to 220°C / 430°F

Applications

Boiler feedwater

HPcp high pressure, radially-split, multistage barrel pump ISO 13709 / API 610 type BB5

Features and benefits

- Inline or back-to-back rotor stack designs for rotordynamic stability
- Forged carbon steel, duplex SS, HIP's and overlaid barrel construction
- Twistlock or bolted barrel closure with Superbolts[™]
- Sleeve, pocketed, or tilt pad bearings
- Grouted, ungrouted and offshore 3- or 4-point support baseplates

Key characteristics

| Capacities | up to 4'000 m³/h / 20'000 USgpm |
|--------------|---------------------------------|
| Heads | up to 10'200 m / 33'500 ft. |
| Pressures | up to 1'100 bar / 16'000 psi |
| Temperatures | up to 200°C / 400°F |

Applications

- Ultra high pressure water injection
- Offshore crude oil shipping
- Remote pipeline services
- High pressure waterflood



