

DYNAMIC | POWER | MOTION



GRIFO GSB 150-2980



SCAMONT
ENGINEERING

GSB 150 - 2980rpm

Self Balancing Multi-Stage Centrifugal Pump

Technical Information

The Grifo Self Balancing, multi-stage centrifugal pump units are suitable for pumping clear water at a maximum temperature of 40°C. They represent a major advance in high lift multi-stage pump technology and are designed to meet the stringent demands of modern day mine dewatering methods. Grifo Engineering manufactures four different pump models for effective operation under varying conditions.

- GSB 250 - Operates at 1490 rpm, pumping to heads of 1 500 metres at a volumetric output of 240 litres per second.
- GSB 200 - Operates at 1490 rpm, pumping to heads of 1 330 metres at a volumetric output of 120 litres per second.
- GSB 150 - Operates at 1490 rpm, pumping to heads of 650 metres at a volumetric output of 60 litres per second.
- GSB 150 - Operates at 2980 rpm, pumping to heads of 2 100 metres at a volumetric output of 105 litres per second.

Materials

End covers and centre casing section - Cast steel

Stage casing - Cast steel

Shaft - Forged steel

Impellers - Pb1 to Bs1400 - Chilled spun cast

Diffuser and overflow - Pb1 to Bs1400

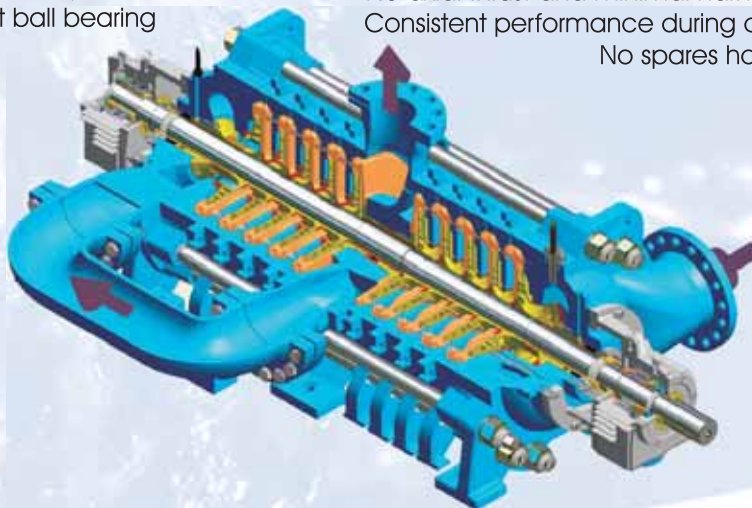
Neck rings - Pb2 to Bs1400

Shaft sleeve - Chrome steel

Bearing drive end - Roller (rating: 40 000 hours)

Bearing non-drive end - Angular contact ball bearing (rating: 40 000 hours)

Section



Features

The pump units are robustly constructed to withstand the harshest mining environments, and incorporate modern hydraulic design principles. Conventional balancing discs and the associated maintenance problems are completely excluded by fitment of opposing impellers on either side of the centre casing section which eliminate hydraulic thrust. Spun cast bronze impellers ensure mechanical and metallurgical integrity.

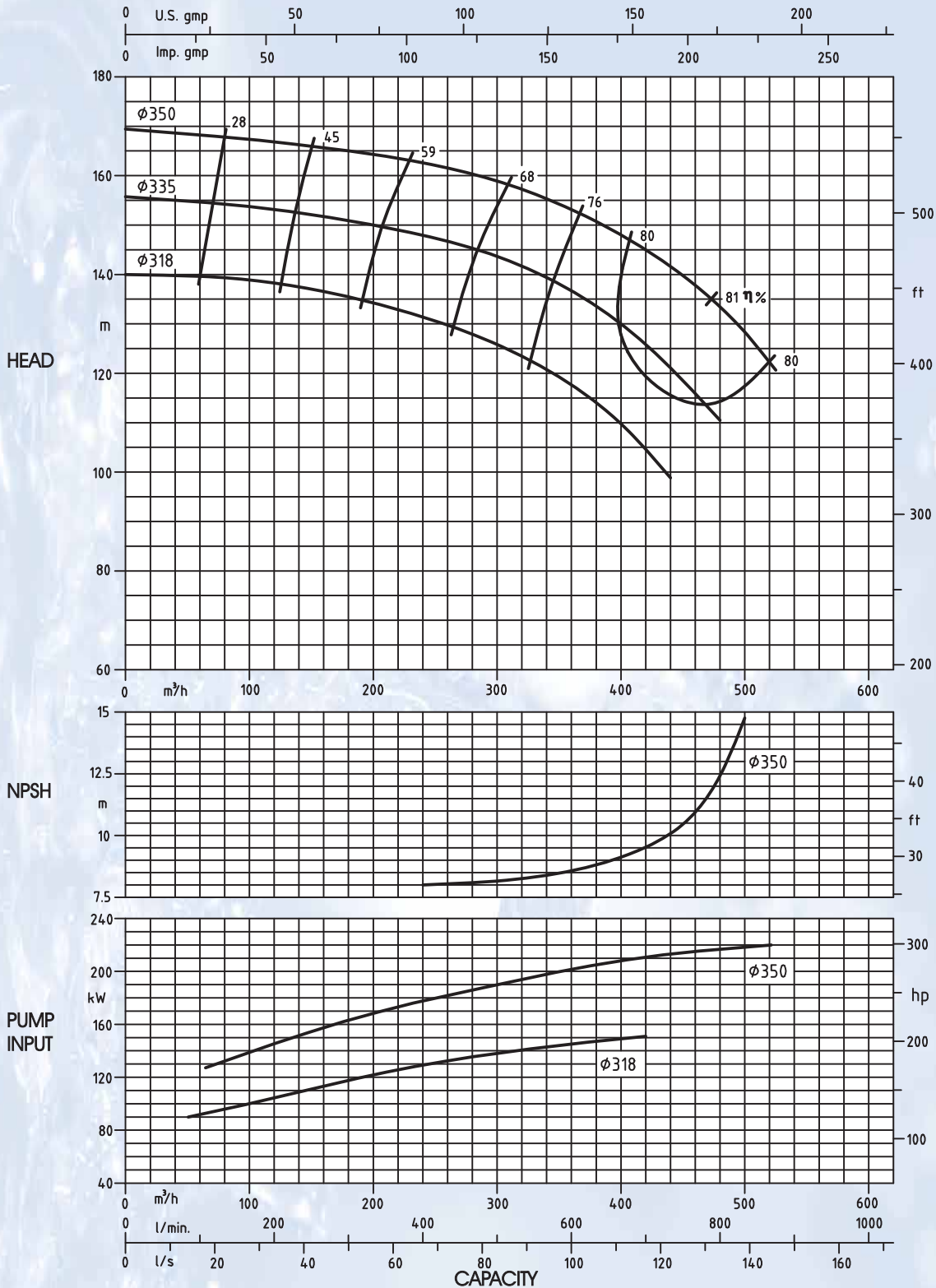
- Increased volumetric performance.
- Self balancing.
- Totally maintenance free throughout operational life.
- Non-friction, heavy duty, ball and roller bearings.
- High pressure, water lubricated centre bearing.
- No axial thrust and minimal harmonic vibration.
- Consistent performance during operational life.
- No spares holding required.

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Performance curve

Characteristic curve for each stage with liquid at specific weight 1



Distributors of

