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Mathematical modelling facilitated a more accurate calculation of the compressor performance and effects of different parameter s influencing the process may be accounted for.

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Kobelco screw compressors have capacity and pressure capabilities between those of centrifugal and reciprocating compressors. They handle inlet volume flows up to 142,000 m³/h (84,000 cfm) and discharge pressures up to 100 barg (1,500 psig). General procedure for screw compressor geometry calculation based on a given screw compressor profile.

Since the throughput index accounting for gas backflows is known, it is possible o determine the actual throughput of this double-screw compressor: $V_a = \lambda_{th} \cdot V_t = 0.9 \cdot 66 = 59.4 \text{ m}^3 / \text{min}$. So, the throughput of this double-screw compressor is 59.4 m³ /min.

Compressor power calculation - Centrifugal, rotary ...

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