ARCUSAFLEX®

Data Required for Coupling Size Selection

General

1. Project: _____
2. Application (combined heat and power unit, emergency power generator, fire pump, ...): _____
3. Operating mode (continuous operation, emergency power operation, ...): _____
4. Place of operation/location: _____ Ambient temperature: T_u _____ [°C]
5. Certification/class/requisite rules for selecting the coupling size: _____

Engine side

1. Engine (manufacturer, designation/type): _____ ☐ Diesel ☐ Gas
2. Engine power (nominal operation): P _____ [kW]
3. Engine speed (nominal speed): n _____ [min^{-1}]
4. Idle speed existing? ☐ yes ☐ no
   If adjustable from: n _____ [min^{-1}] to _____ [min^{-1}]
5. If variable speed operation, speed range from: n _____ [min^{-1}] to _____ [min^{-1}]
   ! Please attach corresponding speed/torque/power diagram.
6. Total stroke volume: V_H _____ [ccm] R/V (angle): _____ Number of cylinders: _____
7. Mass moment of inertia engine incl. damper without flywheel: J _____ [kgm^2]
   Mass moment of inertia flywheel: J _____ [kgm^2]
   Total moment of inertia of the engine (incl. damper, flywheel, etc.): J _____ [kgm^2]

Output side

1. Type (generator, pump transfer case, pump, compressor, ...): _____
2. Type (manufacturer, designation): _____
3. Mass moment of inertia: J _____ [kgm^2]
4. Connection dimensions (D x L, toothed shaft (standard), flange, ...): _____
   ! For branched systems: System sketch with details of the individual inertias (with details of the reference speed) and transmission ratios.

If the prime mover is to be flange-mounted to the engine with an intermediate housing, we require the following to determine an optimum mounting position; specified details and dimensions as in the following sketch: