

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Clutch and Friction Brake Coupling for Shaft

with type designation(s)
21 KPT, 24 KPT, 27 KPT

Issued to
Transfluid SpA
Gallarate VA, Italy

is found to comply with
DNV GL rules for classification – Ships
DNV GL rules for classification – High speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2018-02-07**

for **DNV GL**

This Certificate is valid until **2023-02-06**.

DNV GL local station: **Milan**

Approval Engineer: **Stanislav Avanesov**

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Burkhard Lilienthal
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Drain type fluid coupling.

Application/Limitation

Fluid coupling used as power take-off for internal combustion engines, for marine propulsion and auxiliary applications

Type	Max. speed (rpm)	Max. Torque (Nm)
21 KPT	2200	2122
24 KPT	2200	2891
27 KPT	2100	5005
27 KPT	2000	5305

Type Approval documentation

Documentation received with letter from Transfluid and the following revised and new drawings:

Drawing number	Revision	Titel
A6561-K	4	21 KPTU installation drawing
TF6014-E	4	Hydraulic scheme
TB1066-E	7	Impeller assembly
TB 1071-K	3	Special accessories
TB1106-G	2	Special accessories
TB1106-B	7	Special accessories
TB1114	10	Special accessories
G102001Q	4	Cover
TF5937-N	2	Double solenoid valve
TB1070-F	1	Housing assembly
GA104508A	2	Shaft for external impeller
GA103860B	3	Shaft for internal impeller
TF6007-S	0	Electric connections
GA100717E	8	External impeller
GA100716A	7	Internal impeller
A6468-K	4	24 KPTU installation drawing
TB1070-B	12	Housing assembly
TB 1071-M	0	Special accessories
TB1071-P	2	List of parts
TB1072-S	3	Part list
GA104508	8	Shaft for external impeller
GA104506A	12	Shaft for internal impeller
GA104632S	2	Cover
GA104631L	2	External impeller
GA101057A	11	Internal impeller
A7164	0	27 KPTU installation drawing
TB1066-F	4	Impeller assembly
TB 1113-G	0	Special accessories
TB1113-H	0	Lubrication group / heat exchanger
TB1072-T	3	Part list
TB1114A	2	Special accessories
GA104614	5	Shaft for external impeller

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GA104612	7	Shaft for internal impeller
GA102396-V	2	Cover
GA102395K	2	External impeller
GA102394	1	Internal impeller

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2,5 and 3 years and before the expiry date of this certificate to verify that the conditions of the approval are complied with.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval certificate was issued. The main scope of the Periodical Assessment will normally include:

- Verification of the Type Approval applicant's production and quality system with regard to ensuring continued consistent production of the Type Approved products at the Type Approval applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking.

Other conditions

The approval does not cover the flexible coupling between engine and KPTU coupling.

END OF CERTIFICATE