RBD elastic couplings
SRBD single pump drive
PF pto

drive with us
DESCRIPTION
The RBD drives are designed for use with industrial engines in stationary applications such as generators, pumps and compressor sets, and in mobile applications like fork lift trucks and earth moving equipment. RBD drives have many advantages: ease of assembly, weight and size, small axial profile and competitive price. Drives are supplied with standard SAE flanges for ease of installation.

CONFIGURATION
- with or without hub
- with spline or keyway (min. q.ty required)
- with conical locking coupling (standard)
- with housing for hydrostatic drives

TECHNICAL FEATURES
The drive principle uses internal and external teeth; the difference is that the external teeth are blocks of special rubber molded compound. By changing the rubber compound, various torques can be transmitted. The external aluminum ring has a profile corresponding to the rubber molded compound and can be directly mounted on the output flange of the prime mover, allowing it to absorb small angular and radial misalignments.

SELECTION
1) $T_{in}>T_{ex}+S$ ($T_{in}$ = load torque; $S$ = 1.3)

$T_{in(max)} > T_{ex}+S$ ($T_{in}$ = load peak torque)

$T_{in(max)} > T_{ex}+S_{max}$ ($T_{in}$ = load torque; $S_{max}$ = 1.56)

1) For torsional vibration calculation, contact TRANSFLUID.

On request other rubber blocks with elastic features and hardness different from the standard are available. For details please contact TRANSFLUID.

<table>
<thead>
<tr>
<th>Size</th>
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<th>Weight (kg)</th>
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<tr>
<td></td>
<td>Flanged</td>
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<tr>
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<tr>
<td>6S</td>
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Maximum parallel and angular misalignment 0.7 mm (T.I.R.)
### SRBD Single Pump Drives

The single pump drive is a whole kit that includes all the components to connect a Diesel engine to a pump.

Components are:
- RBD coupling
- QD bushing (machined)
- SAE housing with inch threaded holes

### RBD Couplings with QD

- Ease of assembly
- High torque transmission
- Quick disassembly without using special tools
- Positive contact between locking hub and shaft eliminates contact fretting

### RBD-QD with Single Rubber Blocks

- RBD-QD with Single Rubber Blocks with Housing
- RBD-QD with Double Rubber Blocks with Housing and Spacer

### Dimensions are Subject to Change Without Notice

<table>
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<tr>
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<th>Bolt Material</th>
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### Bolt Material

- M8 x 35
- M10 x 50
- M12 x 55

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<tr>
<th>Engine Housing SAE J617 &amp; Flywheel SAE J620</th>
<th>SAE SINGLE PUMP DRIVE ASSEMBLY (ELASTIC COUPLING+MACHINED QD BUSHING+HOUSING+SPACER)</th>
<th>Engine Housing SAE J617 &amp; Flywheel SAE J620</th>
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SAE housings 2-4 bolts supplied with 6 hole with six plastic industrial plugs.

<table>
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<tr>
<th>Engine Housing SAE J617 &amp; Flywheel SAE J620</th>
<th>SINGLE PUMP DRIVE WITH DIN 5480 SPLINE ASSEMBLY (ELASTIC COUPLING+MACHINED QD BUSHING+HOUSING+SPACER)</th>
<th>Engine Housing SAE J617 &amp; Flywheel SAE J620</th>
<th>SINGLE PUMP DRIVE WITH DIN 5480 SPLINE ASSEMBLY (ELASTIC COUPLING+MACHINED QD BUSHING+HOUSING+SPACER)</th>
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<td>Pump D5480 spline shaft</td>
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SAE housings 2-4 bolts supplied with 6 hole with six plastic industrial plugs.
RBD POWER TAKE OFF

The PT-PTO is suitable for both in line and radial load applications. The output shaft is supported by a heavy bearing designed to absorb the high shock loads generated by the transmitted power. For permissible radial loads apply Transfluid.

**PF10S - PF11S - PF14S**

For PF10SS-PF11S special square key 15.88x15.88x76.2
For PF14S key as per ANSI B92.1 USAS square

*DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE*
ATEX VERSIONS

It is possible to get a Transfluid RBD, SRBD, PF certified as equipment for intended use in hazardous zones according to directive 94/9/EC (Atex).
The selection must consider, in addition to the service factor $S_t$, a safety factor (Atex factor) $A_f = 1.2$ to obtain the selection torque.
With reference to selection table in pag. 1, nominal torque $T_{nn}$ has to be higher than load torque $T_L \times S_t \times A_f$:

$$T_{nn} > T_L \times S_t \times A_f = T_L \times S_{Atex}$$

Certification can be provided for the following categories:
- $\varepsilon x II 3 G/D c T4$ - Surface (Non-mining) application
- $\varepsilon x II 2 G/D c T4$ - Surface (Non-mining) application
- $\varepsilon x I M2 c T4$ - Mining application

In case of inquiry for Atex products, you have to apply providing the application form TF6830 duly filled up.

APPLICATION DATA SHEET

Company: Ref. person:
Address: E-mail:
Project:

PRIME MOVER

Diesel engine: N° of cylinder: □ in line □ "V" installed power: kW
MAX torque: Nm

APPLICATION DATA

Flywheel size: Housing size:

RBD/SRBD □ for pumps / compressor □ for generators:
Shaft end □ Spline dimension: □ Keyway dimension:

PF □ with fluid cplg □ with pulley □ with cardan shaft □ with flex cplg
Dp: mm N° and type of grooves cardan type:

Weight of pumps: kg Center of gravity, distance from flange (SRBD): mm
Inertia: kgm²
Absorbed power: kW Speed: rpm

AMBIENT CONDITIONS

Ambient type: □ Indoor □ Outdoor □ Marine
Sea level: m Min temperature: °C Max temperature: °C
Dust level: □ low □ medium □ High

Aggressive agents (please list if any):
Explosive ambient in conformity with:
- □ Atex $\varepsilon x II 3 G/D c T4$
- □ Atex $\varepsilon x II 2 G/D c T4$
- □ Atex $\varepsilon x I M2 c T4$

Group II - Surface (Non-mining) Category 3 Temperature T4 (135°C)
Group II - Surface (Non-mining) Category 2 Temperature T4 (135°C)
Group I - mining Category M2 Temperature T4 (135°C)
SALES NETWORK

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ASC GMBH
4470 Enns

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BMG BEARING MAN GROUP
Johannesburg

OCEANIA

NEW ZELAND
HENLEY ENGINEERING Ltd
Auckland

ASIA

ASIA South East
ATRAN TRANSMISSION PT LTD
Singapore 608 579

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Fax +86 10 60442305
btcinfo@sina.com

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Barat Jakarta 11710

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LEBON CO.
Tehran 15166

IRAQ (Oil & Gas appl.)
EVANPALA Inc
Tehran 1433643115

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Emek Hefer 38800

JAPAN
ASAHI SEIKO CO. LTD.
Osaka 593

KOREA
KIWON CORP.
Pusan - South Korea

TAIWAN
FAIR POWER TECHNOLOGIES CO.LTD
105 Taipei

THAILAND
SYSTEM CORP. LTD.
Bangkok 10140

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BAHRAIN - YEMEN - QATAR
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Dubai

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ECOMMERCE WEB SITE: www.buy-transfluid.com

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