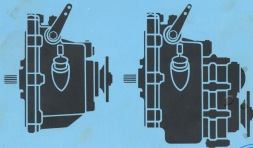




Velvet Drive[®] Series 1000 Hydraulic Marine Transmission

Specialty designed for smaller diesel and gasoline engines.



This manual is offered to you by
© Dintra Transmissies Putten

Warner Gear
Division of Borg-Warner Corporation

JUN 22 1984

**Series 1000
brings Valve Drive
features to
smaller engine
applications.**

More than twenty years and 500,000 production-built marine gears ago, Dynapower built its first hydraulic transmission for pleasurecraft, and today leads under 20 feet.

The use of helion-gearing gives Marine Gear Valve Drive marine transmissions durability and quiet operation. Hydraulic cushion offers the

luxury of smooth, fingertip shifting.

Each model is self-contained with its own pump and hydraulic dump, separate from the engine. The gear-driven pump ensures positive lubrication at all times.

Direct Drive

Maximum 540 HP input

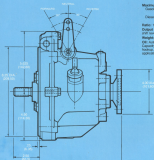
Capacity	64 hp (47 kw) @ 1500 rpm
Class	64 hp (47 kw) @ 1500 rpm

Ratio: 1:1

Output rotation: Same as input with shift lever in forward position.

Weight: 21 lbs. (9.5 kg)

9001 automatic transmission that capacity is dependent upon oil water balance. Engine oil may be used if conditions under 1000 rpm.



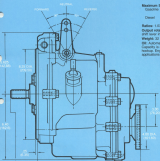
This manual is offered to you by
© Dintra Transmissions Putten

10001 and 10002 series

Important:

Transmission ratings are subject to change without notice and are intended only as a general guide.

Exaggerated misuses or vibrations can occur at low engine speeds which can cause gear rattle and result in damage to the host engine as well as to the transmission. Fluorac Gear is not responsible for total system-related vibration of this type.

SERIES 100 TORQUE CURVES**Reduction****Maximum 5000 HP Input**

Gearcase: 100 hp (5000 feet)
(1) 4000 rpm

Gears: 50 hp (4000 feet)
(1) 4000 rpm

Ratio: 1.5:1, 1.8:1, 2.1:1, 2.4:1

Output options: Opposite to input with
and lever in forward position.

Weight: 30 lbs. (7.6 kg)

Oil: Automatic transmission fluid
Capacity is dependent upon oil cooler
layout. Engine oil may be used in
applications under 2000 rpm.

This manual is offered to you by
© Diatra Transmissions Putten

Series 1000 features.

Modern design.

- Hydraulic operation
- Quiet helical gearing
- Pressurized lubrication
- Light weight
- Minimal length
- Light shift effort

Easily installed and maintained.

- Offset reduction for low propeller installation angle
- Reduction units use a right-hand propeller with a standard rotation engine
- Provision for an external oil cooler
- In-line direct drive can be mated to an add-on V-drive
- Uses Velvet Drive standard mounting pattern and 4-inch (10.16 cm) propeller shaft coupling

Flexible performance.

- Can be free-wheelled
- Four ratio options
- Simple ratio change in reduction units
- Engine oil can be used in applications under 3000 rpm
- Easily adapted to either engine rotation
- Worldwide sales and service



Other Velvet Drive Transmissions

In-Line

The Velvet Drive In-line model series is the accepted standard in its power rating class. With over 500,000 In-Line marine gears installed, Borg-Warner has become the world's largest producer of inboard pleasure boat transmissions.



CR2

The Velvet Drive CR2 marine gear was designed especially for twin-screw applications. Its counter-rotating feature eliminates the need for opposite rotating engines. The CR2's "drop-center" design permits a very easy interchange of units for repowering applications—single or twin-screw.



V-Drive

Velvet Drive integral V-drive is compact. It requires no universal joints. Like the Velvet Drive CR2, it allows opposite propeller rotation with two standard-rotation engines in twin-engine installations.

Accessories



Danger drive assemblies and couplings.

Complete range of sizes. Helps isolate engine cyclic or torsional vibration and noise. Flare half propeller shaft couplings of forged steel to 2 1/4-inch shaft diameter also available.



Transmission alarm kit.

Alerts operator to unsafe transmission oil temperature. Includes sensor and circuit tester. Provides signal to an operator-installed light or audible alarm. (Alarm not included.)

This manual is offered to you by

© Dintra Transmissions Puffin

BOSS & BROS. MARINE LIMITED

1000-400-1000

Remover, 400-100-1000

Phone 200-4125 or 200-4126

Division of Borg-Warner Corporation
P.O. Box 9999, Minnetonka, Minnesota 55302
Telephone: (612) 284-5100, Telex: 27491

Warner Gear International
Division of Borg-Warner Limited
Helen Way, Luton, Bedfordshire, England
Buckingham, Bucks., MK35 9PD, England
Telephone: (0763) 213994, Telex: 610049