

Swivel

32GA, 53GA

For drilling shallow oil wells, core drilling, slim hole drilling and working over oil wells

The GA Swivels have been popular for many years. They have proved to be rugged, dependable and durable. They are in use around the world for drilling shallow oil wells, exploration drilling, water well drilling and on lease service jobs.

The bearings are angular-contact type ball bearings. Weight of the drill pipe (downthrust) is carried on quadruplex units. The (4) four bearings are flush ground, on their faces and matched so that each bearing will support its share of the load.

Reverse loads (upthrust) are absorbed by a single bearing, in the 32GA, and a duplex set in the 53GA. These upthrust bearings are mounted opposed to the quadruplex units.

The type of bearings used and the manner in which they are mounted provide ample radial stability for the swivels.

These swivels are furnished with either a bail or elevator shank, at the option of the purchaser.

Features in Brief

- Packaging is often called Chevron V-Type.
- Washpipes are seamless alloy tubes, casehardened and ground.
- Grease lubrication for the packing.
- Multiple ball bearing units provide ample capacity.
- Oil bath lubrication for the bearings.
- Choice of bail or elevator shank.



TYPE GA SWIVEL
PATENTED
WITH BALL



WITH SHANK

Weights and Dimensional Data

| Type | Weight lbs. | Length Overall | Working Length | Lower Conn., Drill Pipe Thread, LH | Hose Connections | Size Washpipe | Bail Openings |
|------|-------------|----------------|----------------|------------------------------------|------------------|---------------|---------------|
| 32GA | 170 | 42" | 35" | 3 1/2" O.D., 8-V | 2" NPT | 1 1/2" | 6" x 14" |
| 53GA | 340 | 52" | 45" | 4 1/2" O.D., 8-V | 2 1/2" NPT | 2" | 7 1/2" x 18" |

Capacity and Safety Data

| Type Swivel | Capacity, lbs. at 100 R.P.M. | Static Load Limit, lbs. | Safe Depths (Feet) With Drill Pipe | | | |
|-------------|------------------------------|-------------------------|------------------------------------|------------------|------------------|------------------|
| | | | 2 3/8" 6.65 lbs. | 2 7/8" 10.4 lbs. | 3 1/2" 13.3 lbs. | 4 1/2" 16.6 lbs. |
| 32GA | 39,000 | 80,000 | 3,900 | 2,600 | 2,000 | |
| 53GA | 60,000 | 120,000 | 6,000 | 4,000 | 3,100 | 2,400 |

Parts List for Type 53GA King Swivel

| Part Number | Name of Part | Number Required | Net Weight lbs. | Spares for One Year Service |
|-------------|-----------------------|-----------------|-----------------|-----------------------------|
| 53GA | Swivel Complete | ... | 340* | ... |
| N53GA01 | Gooseneck | 1 | 70 | ... |
| N53GA02 | Outer Housing | 1 | 51 | ... |
| N53GA03 | Bearing Housing | 1 | 74 | ... |
| N53GA04 | Housing Lock Nut | 1 | 13 1/2 | ... |
| N53GA05 | Packing Gland | 1 | 4 | 1 |
| N53GA06 | Gland Bolts and Nuts | 2 each | 1 1/2 (2) | 2 |
| N53GA07 | Lantern Ring | 1 | 3/4 | 1 |
| N53GA08 | Packing | 1 set | 3/4 | 6 sets |
| N53GA09 | Washpipe | 1 | 6 1/4 | 3 |
| N53GA10 | Bail | 1 | 53 | ... |
| N53GA10E | Elevator Shank** | 1 | 65 | ... |
| N53GA11 | Bail Gudgeon | 1 | 10 | ... |
| N32GA11A | Gudgeon Retainer Nuts | 2 | 1 1/8 (2) | ... |
| N20XV09A | Felt Washer | 1 | 1/32 | 1 |
| N53GA14 | Upper Housing Seal | 1 | 1/2 | 1 |
| N53GA15 | Bearing*** | 1 set (6) | 25 | 1 set |
| N53GA16 | Bearing Spacer | 1 | 1/2 | ... |
| N53GA18 | Bearing Lock Nut | 1 | 4 7/8 | ... |
| N53GA19 | Lower Housing Seal | 2 | 1 1/8 (2) | 2 |

*Swivel boxed for export weighs approximately 410 lbs.

** State size of elevator when ordering shank.

***Downthrust bearings should always be replaced by full matched sets. Never renew one or two bearings in an old set.

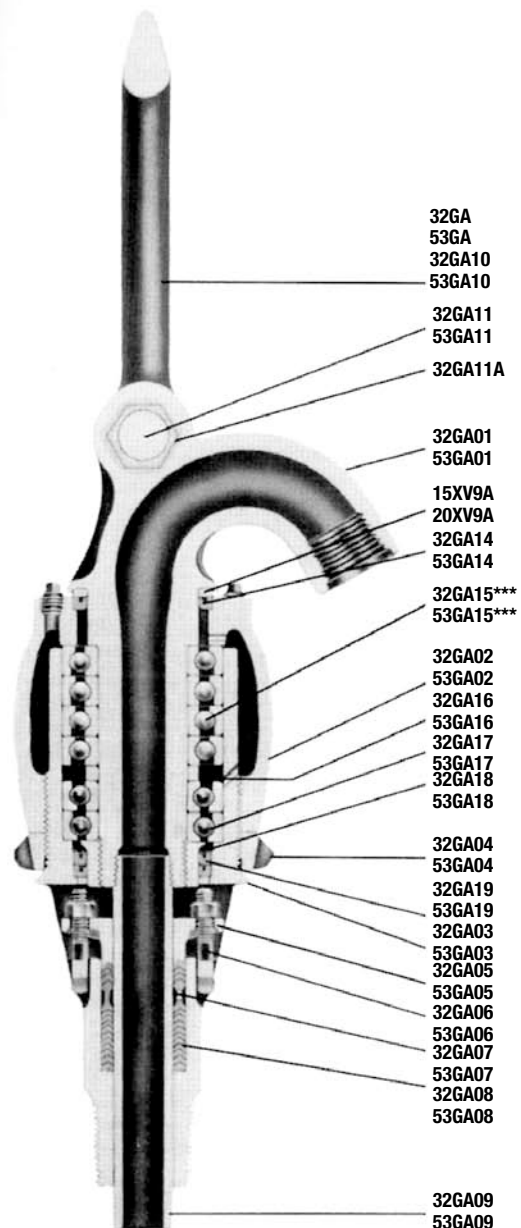
Parts List for Type 32GA King Swivel

| Part Number | Name of Part | Number Required | Net Weight lbs. | Spares for One Year Service |
|-------------|-----------------------|-----------------|-----------------|-----------------------------|
| 32GA | Swivel Complete | ... | 170* | ... |
| N32GA01 | Gooseneck | 1 | 37 1/2 | ... |
| N32GA02 | Outer Housing | 1 | 24 | ... |
| N32GA03 | Bearing Housing | 1 | 34 | ... |
| N32GA04 | Housing Lock Nut | 1 | 5 | ... |
| N32GA05 | Packing Gland | 1 | 2 5/8 | 1 |
| N32GA06 | Gland Bolts and Nuts | 2 each | 1 (2) | 2 |
| N32GA07 | Lantern Ring | 1 | 1/2 | 1 |
| N32GA08 | Packing | 1 set | 3/8 | 6 sets |
| N32GA09 | Washpipe | 1 | 3 7/8 | 3 |
| N32GA10 | Bail | 1 | 32 | ... |
| N32GA10E | Elevator Shank** | 1 | 46 | ... |
| N32GA11 | Bail Gudgeon | 1 | 6 1/2 | ... |
| N32GA11A | Gudgeon Retainer Nuts | 2 | 1 (2) | ... |
| N15XV9A | Felt Washer | 1 | 1/32 | 1 |
| N32GA14 | Upper Housing Seal | 1 | 3/8 | 1 |
| N32GA15 | Bearing*** | 1 set (5) | 12 | 1 set |
| N32GA16 | Bearing Spacer | 1 | 3/8 | ... |
| N32GA18 | Bearing Lock Nut | 1 | 3 1/4 | ... |
| N32GA19 | Lower Housing Seal | 1 | 3/8 | 1 |

*Swivel boxed for export weighs approximately 220 lbs.

** State size of elevator when ordering shank.

***Downthrust bearings should always be replaced by full matched sets. Never renew one or two bearings in an old set.



The bearings in the 32GA and 53GA Swivel should be lubricated with a medium weight oil of good quality. Packing boxes are equally equipped with a grease fitting and packing should be lubricated often with water pump grease.