



## Hydraulic Live Swivels

*A New Twist on  
Leak-Free Hydraulic  
Connections*



# Gates Live Swivels

***Increase productivity and reduce operating costs with Gates Live Swivels. Gates Live Swivels use a new patented technology eliminating the weaknesses present in traditional ball bearing design swivels. Our advanced “Ball-Less” design will outlast and outperform all bearing and race products in the market today.***

## **Gates Innovative Live Swivel Coupling Features:**

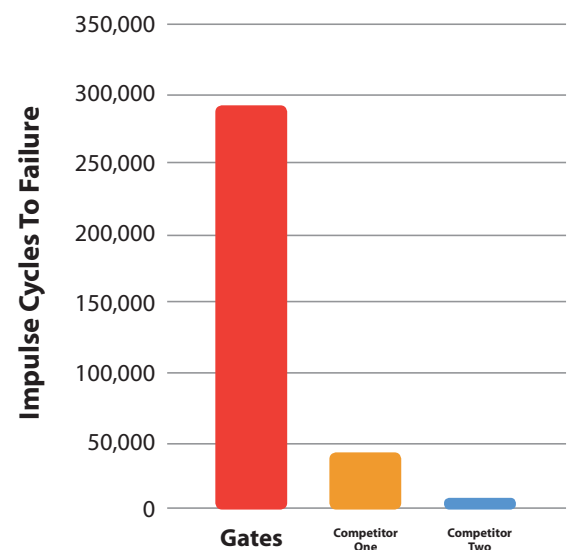
- 270° swivel rotation
- No ball bearing design eliminates metal to metal fatigue
- Rebuildable to increase overall component life
- Handles high operating pressure up to 6,000 PSI rating
- Self lubricating with superior sealing capacity
- Unsurpassed reliability and hydraulic shock resistant
- Will not separate under extreme operating conditions
- Increased component service life – 290,000 Impulse Cycles at max. PSI
- Temp Range -40°F to 212°F



## **Robust Design Outperforms Competition**

- Robust design with free-floating, self-lubricating thrust washer has replacement factor of up to 10x traditional swivels
- Compact body size to fit a wide range of applications
- Withstands higher pull forces as compared to bearing and race swivels which remain loose to allow for bearing play
- No lock screw to break or become damaged
- Double O-Ring design protects against contamination and premature seal deterioration
- Engineered to weep as an indicator of service interval eliminating emergency breakdowns
- Lower cost due to longer service life, fewer hydraulic leaks and less downtime
- Simple de-torque and rebuild serviceability in the field or shop
- No special tools required for service

**In Side-By-Side Tests, Gates Lasts Longer**





# Cost Saving Rebuild Kits

## *Reduce operating costs and down time by rebuilding Gates Live Swivels.*

Gates patented leak-free Live Swivels are specifically engineered to begin weeping as an indicator that rebuilding is required. This allows for scheduled maintenance versus emergency breakdown situations. If you notice the swivel starting to weep, servicing can be done easily in the field or shop. There are no ball bearings to fumble with and it takes less than five minutes to replace the seals and O-Rings.

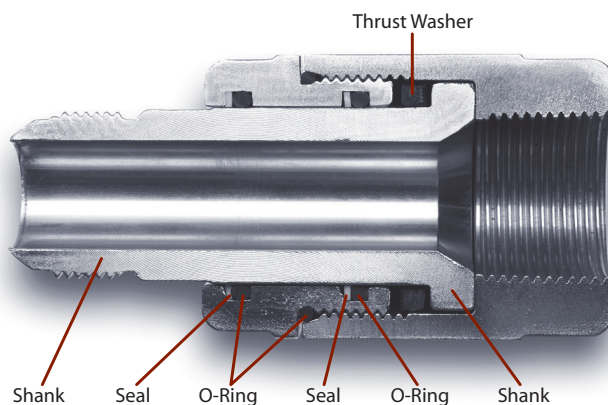
### Rebuild kits allow for:

- Increased productivity
- Longer component life
- More equipment uptime
- Improved return-on-investment

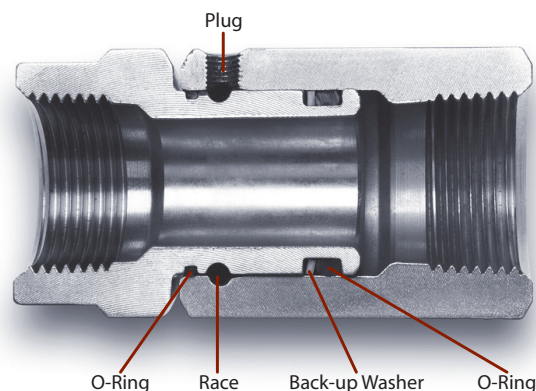
Gates Live Swivel Rebuild Kits are matched to specific applications ensuring superior performance. Kits contain genuine low friction, self-lubricating polymer thrust washers and Viton O-Rings for durability and longer product life.

Gates Live Swivel Rebuild Kits		
Part Number	Catalog Descriptions	Product Number
G93500-0006	6JIC Live Swivel Seal Kit	725212155
G93500-0008	8JIC Live Swivel Seal Kit	725212165
G93500-0012	12JIC Live Swivel Seal Kit	725212175
G93500-0016	16JIC Live Swivel Seal Kit	725212185
G93500-0020	20JIC Live Swivel Seal Kit	725212195
G93500-0024	24JIC Live Swivel Seal Kit	725212205
G93500-0032	32JIC Live Swivel Seal Kit	725212215
Part Number	Catalog Descriptions	Product Number
G93700-0008	8ORS/8BSPP Live Swivel Seal Kit	725212225
Part Number	Catalog Descriptions	Product Number
G93600-0012	12ORS Live Swivel Seal Kit	725212235
G93600-0016	16ORS Live Swivel Seal Kit	725212245

Gates Live Swivel Design



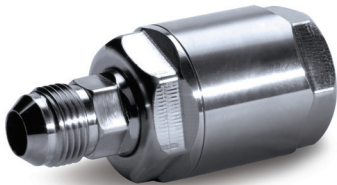
Competitor Bearing and Race



## Cost factors to consider when purchasing Live Swivels:

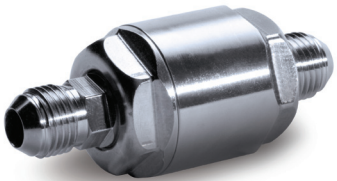
- Component life expectancy and durability
- Rebuildability
- Hydraulic fluid loss due to component failure
- Contaminant ingress
- Non-productive downtime
- Clean-up of heavy oil spills
- Safety concerns

# Part Numbers and Specifications



## Male 37° Flare - Female Pipe

Part Number	Catalog Descriptions	Working Pressure	Thread Size (1)	Thread Size (2)
G93510-0808	8MJ-8FP-LX	6,000	3/4 - 16	1/2 - 14
G93510-1212	12MJ-12FP-LX	6,000	1 1/16 - 12	3/4 - 14
G93510-1616	16MJ-16FP-LX	6,000	1 5/16 - 12	1 - 11 1/2



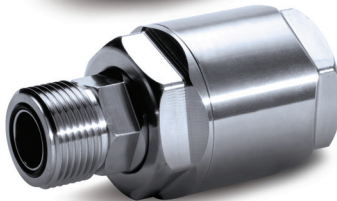
## Male 37° Flare - Male 37° Flare

Part Number	Catalog Descriptions	Working Pressure	Thread Size (1)	Thread Size (2)
G93410-0606	6MJ-6MJ-LX	6,000	9/16 - 18	9/16 - 18
G93410-0808	8MJ-8MJ-LX	6,000	3/4 - 16	3/4 - 16
G93410-1212	12MJ-12MJ-LX	6,000	1 1/16 - 12	1 1/16 - 12
G93410-1616	16MJ-16MJ-LX	6,000	1 5/16 - 12	1 5/16 - 12
G93410-2020	20MJ-20MJ-LX	5,500	1 5/8 - 12	1 5/8 - 12
G93410-2424	24MJ-24MJ-LX	4,500	1 7/8 - 12	1 7/8 - 12
G93410-3232	32MJ-32MJ-LX	3,000	2 1/2 - 12	2 1/2 - 12



## Male British Standard Pipe Parallel - Male British Standard Pipe Parallel

Part Number	Catalog Descriptions	Working Pressure	Thread Size (1)	Thread Size (2)
G93345-0808	8MBSPP-8MBSPP-LX	6,000	1/2 - 14	1/2 - 14
G93345-1212	12MBSPP-12MBSPP-LX	6,000	3/4 - 14	3/4 - 14
G93345-1616	16MBSPP-16MBSPP-LX	6,000	1 - 11	1 - 11



## Male Flat Face O-Ring - Female Flat Face O-Ring

Part Number	Catalog Descriptions	Working Pressure	Thread Size (1)	Thread Size (2)
G93724-1212	12MFFOR-12FFORX-LX	6,000	3/4 - 14	3/4 - 14
G93724-1616	16MFFOR-16FFORX-LX	6,000	1 - 11	1 - 11



## Male Flat Face O-Ring - Male Flat Face O-Ring

Part Number	Catalog Descriptions	Working Pressure	Thread Size (1)	Thread Size (2)
G93742-0808	8MFFOR-8MFFOR-LX	6,000	1/2 - 14	1/2 - 14
G93742-1212	12MFFOR-12MFFOR-LX	6,000	3/4 - 14	3/4 - 14
G93742-1616	16MFFOR-16MFFOR-LX	6,000	1 - 11	1 - 11



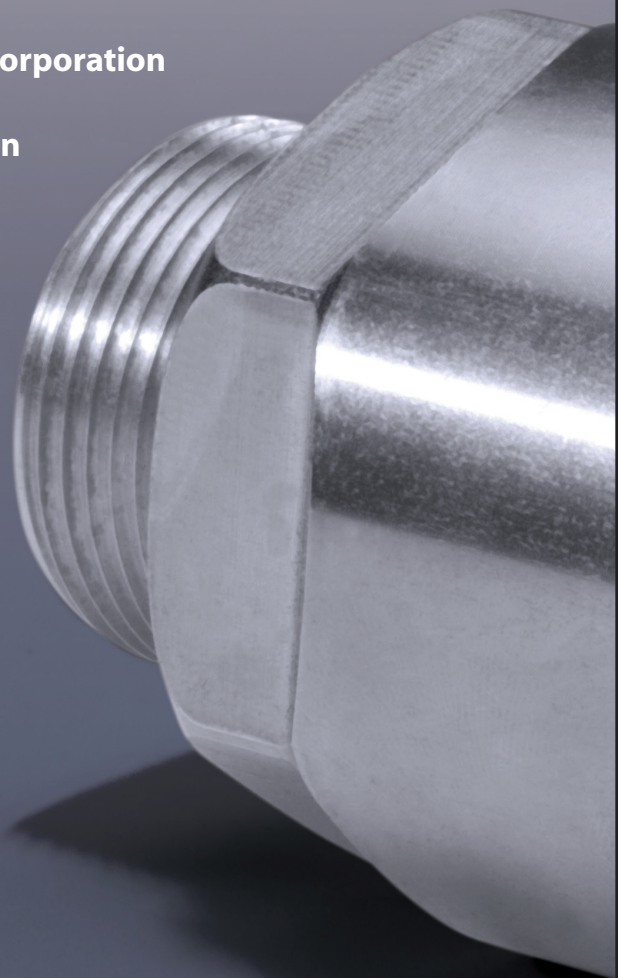
## MALE JIC - FEMALE O-Ring Boss

Part Number	Catalog Descriptions	Working Pressure	Thread Size (1)	Thread Size (2)
G93450-0808	8MJ-8FB-LX	6,000	3/4 - 16	3/4 - 16
G93450-1212	12MJ-12FB-LX	6,000	1 1/16 - 12	1 1/16 - 12
G93450-1616	16MJ-16FB-LX	6,000	1 5/16 - 12	1 5/16 - 12
G93450-2020	20MJ-20FB-LX	5,500	1 5/8 - 12	1 5/8 - 12
G93450-2424	24MJ-24FB-LX	4,500	1 7/8 - 12	1 7/8 - 12
G93450-3232	32MJ-32FB-LX	3,000	2 1/2 - 12	2 1/2 - 12

# The World's Most Trusted Name in Belts, Hose and Hydraulics.

With almost 100 years of innovation and experience, Gates Corporation supplies the highest quality hydraulic parts and equipment in the market today. Gates offers a full line of the most reliable and advanced swivel technologies to increase productivity and reduce operating costs of modern hydraulic systems.

*For more information about Gates Live Swivels, contact your local Gates Hydraulic Representative.*



A Tomkins Company

**Gates Corporation**

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