



# **WESTERN RUBBER AND MANUFACTURING**

**SINCE 1977**

*"SERVING THE  
WATER, MONITORING  
& ENERGY  
INDUSTRIES"*

Prices  
Effective  
May 15, 2008

WITH  
**SWIVELS  
K-PACKERS  
SHALE TRAP  
PIPE WIPERS  
PUMP PARTS  
PIPE CLAMPS  
ROD HOOKS**



**TOLL FREE 800-367-5285  
936-588-3033 FAX 936-588-3132**

# HISTORY

WESTERN RUBBER & MANUFACTURING, INC. was started in 1977 by Mr. Charles Grantom as a custom rubber design and manufacturing plant for the oilfield industry. At this time our main products were piston rubbers and replacement stripper rubbers. Today we have increased our product line and now offer a complete line of **swivels, shale traps, pipe wipers, mud pump parts, and other products for the water well, oilfield, well servicing, and environmental drilling market.** Since our beginning, WESTERN RUBBER has been dedicated to providing the highest quality product at a fair market price while providing the technical support, service and availability that is required in today's market.

## TERMS AND CONDITIONS OF SALE

### 1. **WARRANTY**

We, Western Rubber & Mfg. (WRAM), warrant our parts and products against defects in material and/or workmanship under normal service for a period of (1) one year from date of purchase. Defective parts and/or product will be replaced without charge upon approved satisfactory proof of such defect caused by WRAM. The liability of WRAM will be solely limited to the replacement of such defective part(s) or product. WRAM makes no other warranty whatsoever, expressed or implied. No one is authorized to waive, change, or amend the foregoing in any particulars.

### 2. **PRICES**

Prices are subject to change without notice but quotations accepted within thirty (30) days of their date will be invoiced at the quoted price in the event of a price increase. We will not be responsible for prices quoted by any Jobber to customer from outdated price or discount sheets.

### 3. **TAXES AND COLLECTION CHARGES**

All taxes imposed by any Government shall be added to the amount to be paid by the purchaser. Transportation and collection taxes and/or charges shall be for the account of the purchaser.

### 4. **CANCELLATIONS**

Orders for products of special design size or materials are not cancelable upon our receipt of purchase order. Any item not shown in our catalog or listed in our price book is non-cancelable.

### 5. **RETURNED GOODS**

No returned good will be accepted without written authority from our Home office. Merchandise credit only will be issued after inspection at our factory and such credit will be subject to any cost necessary for Western Rubber to put item in saleable condition.

### 6. **DESIGN CHANGES**

We reserve the right to change or modify the design of any Western Rubber products without obligation to furnish or install such changes on products previously or subsequently sold.

### 7. **DELIVERY**

All deliveries quoted are estimates. Every effort will be made to ship within the time quoted, but we will not be responsible, nor be liable for any damage incurred on account of such delays.

### 8. **CASH TERMS**

A late payment finance charge will be assessed on all balances not paid by the due date indicated on each invoice at a monthly rate of 1 ½ %, which is an annual rate of 18%. This charge will be shown and so designated on the next monthly statement.

### 9. **GENERAL**

We have no control over the use or abuse of our products or equipment and our services are advisory only. The customer therefore agrees that Western Rubber shall have no liability for allegedly defective or inadequate service and the customer agrees to indemnify and hold Western Rubber harmless from all claims other than given in our foregoing warranty.



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# SHALE TRAPS

## (Formation Packers)



- For all sizes of casing & bore holes
- Available in soft and hard rubber
- Designed for grouting between casing and bore hole but have been used for numerous applications
- Constructed from neoprene rubber for elasticity and strength
- Attaches to casing with stainless steel clamp

PART NUMBER	DESCRIPTION	WT/LBS	
STSTD25	2" x 5" Standard Shale Trap	.50	
STSUP2412	2" x 4 ½" SUPREME Shale Trap	.70	
STSUP25	2" x 5" SUPREME Shale Trap	.80	
STSUP2612	2" x 6 ½" SUPREME Shale Trap	1.00	
STC2	2" Stainless Steel Clamp for Shale Trap	.15	
STSUP36	3" x 6" SUPREME Shale Trap	.90	
STC3	3" Stainless Steel Clamp for Shale Trap	.20	
STSTD47	4" x 7" Standard Shale Trap	.83	
STSUP47	4" x 7" SUPREME Shale Trap	1.20	
STSUP48	4" x 8" SUPREME Shale Trap	1.30	
STSUP4912	4" x 9 ½" SUPREME Shale Trap	1.40	
STC4	4" Stainless Steel Clamp for Shale Trap	.25	
STSUP5OD7	5" OD x 7", (4 ½" ID PVC) SUPREME Shale Trap	1.30	
STSUP5OD8	5" OD x 8", (4 ½" ID PVC) SUPREME Shale Trap	1.40	
STSUP5OD9	5" OD x 9", (4 ½" ID PVC) SUPREME Shale Trap	1.90	
STC5OD7	5" OD Stainless Steel Clamp for 5" ODx7" Shale Trap	.30	
STSUP58	5" x 8" SUPREME Shale Trap	1.40	
STSUP59	5" x 9" SUPREME Shale Trap	1.90	
STC5	5" Stainless Steel Clamp for Shale Trap (Also for STSUP5OD8 & STSUP5OD9)	.35	
STSTD610	6" x 10" Standard Shale Trap	1.40	
STSUP61012	6" x 10 ½" SUPREME Shale Trap	3.20	
STC6	6" Stainless Steel Clamp for Shale Trap	.35	
STSUP61411	6 ¼" x 11" SUPREME Shale Trap (OD of 6.90 casing)	2.80	
STSUP712OD11	7 ½" x 11" SUPREME Shale Trap (Bell of 6.90 casing)	2.80	
STC614	6 ¼" Stainless Steel Clamp for Shale Trap	.35	
STSUP814	8" x 14" SUPREME Shale Trap	4.60	
STC8	8" Stainless Steel Clamp for Shale Trap	.35	
STSUP101614	10" x 16 ¼" SUPREME Shale Trap	5.50	
STC10	10" Stainless Steel Clamp for Shale Trap	.40	
STSUP1220	12" x 20" SUPREME Shale Trap	10.20	
STC12	12" Stainless Steel Clamp for Shale Trap	.40	

# "K" PACKERS (TRI-SEALS)



**BLANK**  
**\*(FOR PVC PIPE—**  
**Not Included)**



**COUPLING**



**WELD-ON**

- Available in the three (3) types, COUPLING (Right by Right/Right by Left) BLANK (for gluing to PVC pipe) WELD ON
- Designed to seal in Schedule 40 pipe unless stated otherwise.
- Can be Furnished in STAINLESS STEEL
- Provides a "sand tight" seal between screen and casing
- Used for many applications in WATER WELL, CONSTRUCTION, AND ENVIRONMENTAL industry.
- Constructed from neoprene rubber being vulcanized and bonded under heat and pressure to coupling or pipe
- Available in two (2) rubber hardnesses  
70 durometer—STANDARD  
50 durometer—SOFT
- CUSTOM K-PACKERS AVAILABLE to 24", please call with your requirements.

PIPE SIZE	CASING SIZE	NOTES	RIGHT BY RIGHT		RIGHT BY LEFT		BLANK		WELD ON	
			PART NUMBER	WEIGHT	PART NUMBER	WEIGHT	PART NUMBER	WEIGHT	PART NUMBER	WEIGHT
1 1/4"	2"		KPRR1142	1.31	KPRL1142	1.31	KPB1142	.05		
	3"		KPRR1143	1.56	KPRL1143	1.56	KPB1143	.21		
	4"		KPRR1144	1.00	KPRL1144	1.00	KPB1144	.47		
2"	3"		KPRR23	1.75	KPRL23	1.75	KPB23	.13	KPWO23	ASK
	4"		KPRR24	1.00	KPRL24	1.00	KPB24	.34	KPWO24	ASK
	4 1/2"	SDR-17	KPRR2412	1.25	KPRL2412	1.25	KPB2412	.37	KPWO2412	ASK
	5"		KPRR25	1.25	KPRL25	1.25	KPB25	.87	KPWO25	ASK
2 1/2"	4"		KPRR2124	2.25	KPRL2124	2.25	KPB2124	.37	KPWO2124	ASK
	4"	SDR-17	KPRR212414	2.37	KPRL212414	2.37	KPB212414	.37	KPWO212414	ASK
	5"		KPRR2125	2.22	KPRL2125	2.22	KPB2125	.37	KPWO2125	ASK
	5"	SDR-17	KPRR2125-SDR17	3.00	KPRL2125-SDR17	3.00	KPB2125-SDR17	1.00	KPWO3382	ASK
3"	4"		KPRR34	1.50	KPRL34	1.50	KPB34	.28	KPWO34	ASK
	4"	SDR-26	KPRR3418	1.50	KPRL3418	1.50	KPB3418	.28	KPWO3418	ASK
	4"	.337W					KPB3382	.28	KPWO3382	ASK
	4 1/2"	SDR-17	KPRR3412-SDR17	1.50	KPRL3412-SDR17	1.50	KPB3412-SDR17	.36	KPWO3412-SDR17	ASK
	4 1/2"	SDR-26	KPRR3412-50/50	1.50	KPRL3412-50/50	1.50	KPB3412-50/50	.36	KPWO3412-50/50	ASK
	4 3/4" OD		KPRR3434	2.50	KPRL3434	2.50	KPB3434	.36	KPWO3434	ASK
	5"		KPRR35	2.50	KPRL35	2.50	KPB35	.62	KPWO35	ASK
	5"	SDR-17	KPRR35-OS	2.50	KPRL35-OS	2.50	KPB35-OS	.62	KPWO35-OS	ASK
	6"		KPRR36	3.75	KPRL36	3.75	KPB36	1.50	KPWO36	ASK
4"	6"	SDR-17	KPRR36-SDR17	3.75	KPRL36-SDR17	3.75	KPB36-SDR17	1.50	KPWO36-SDR17	ASK
	5"		KPRR45	2.50	KPRL45	2.50	KPB45	.20	KPWO45	7.25
	5"	SDR-26	KPRR4518	2.62	KPRL4518	2.62	KPB4518	.20	KPWO4518	7.25
	5 5/8" OD		KPRR4558	3.00	KPRL4558	3.00	KPB4558	.40	KPWO4558	7.25
	6"		KPRR46	3.00	KPRL46	3.00	KPB46	.75	KPWO46	8.05
	6"	.188W	KPRR4614	3.25	KPRL4614	3.25	KPB4614	.37	KPWO4614	8.25
	8"		KPRR48	6.50	KPRL48	6.50	KPB48	2.25	KPWO48	8.50
	4 1/2"						KPB50D6	.75		
5"		.188W					KPB50D614	.75		
	6"		KPRR56	3.00	KPRL56	84.62 / 3.00	KPB56	.22	KPWO56	8.75
	6"		DOUBLE (6 FINS Soft)	INLINE					KPWO56-6F	8.75
	6"	12" Long							KPWO56-12	12.75
	6"	24" Long							KPWO56-24	28.35
	6"	24" Long	DOUBLE (6 FINS Soft)	INLINE					KPWO56-246F	28.25
	6"	.250 W	KPRR5618	3.10	KPRL5618	3.10	KPB5618	.25	KPWO5618	8.75
	6"	.188 W	KPRR5614	3.10	KPRL5614	3.10	KPB5614	.25	KPWO5614	8.75
		6 5/8" OD	KPRR5658	3.50	KPRL5658	3.50	KPB5658	.38	KPWO5658	ASK
	8"		KPRR58	7.25	KPRL58	7.25	KPB58	1.66	KPWO58	1.75

Available for ALL APPLICATION\* including SPECIALS and STAINLESS STEEL. All weld on K-Packers have a minimum length of 8" unless otherwise stated. Rubber in the MIDDLE is available by request – our standard is rubber on the end.

# "K" PACKERS (TRI-SEALS) Cont'd.



PIPE SIZE	CASING SIZE	NOTES	RIGHT BY RIGHT		RIGHT BY LEFT		BLANK		WELD ON	
			PART NUMBER	WEIGHT	PART NUMBER	WEIGHT	PART NUMBER	WEIGHT	PART NUMBER	WEIGHT
<b>6JWS</b>	8"	Johnson	KPJWS68							
	8"	.250	KPJWS6814							
<b>6"</b>	8"		KPRR68	11.25	KPRL68	11.25	KPB68	1.00	KPWO68	13.75
	8"		KPRR6814	11.25	KPRL6814	11.25	KPB6814	1.66	KPWO6814	14.00
	9"	Special	KPRR69	11.75	KPRL69	11.75	KPB69	1.75	KPWO69	
	10"		KPRR610	13.00	KPRL610	13.00	KPB610	2.50	KPWO610	14.00
<b>6.9"</b>	8"	Certain T					KPB6.98			
	8"	.250W					KPB6.914			
	9"	Special					KPB6.99			
	10"						KPB6.910			
<b>7 1/2"</b>	8"		5 1/2" LONG						KPWO7128-S	8.75
	8"						KPB7128		KPWO7128	13.00
	8"	.250 W	5 1/2" LONG						KPWO712814-S	8.75
	8"	.250W					KPB712814		KPWO712814	13.00
<b>8"</b>	10"	.375W	KPRR810	23.75	KPRL810	441.19 / 23.75	KPB810-.25-50D		KPWO810	24.00
	10"	.250W					KPB810-.25		KPWO810-.25	25.00
	12"	.375W	KPRR812	23.75	KPRL812	565.19 / 23.75	KPB812-.25-50D		KPWO812	26.00
	12"	.250W					KPB812-.25		KPWO812-.25	28.00
	14"	.375W	KPWO-16" LONG				KPB814-.25-50D		KPWO814	
	14"	.250W					KPB814-.25		KPWO814-.25	
	16"	.375W	KPWO-16" LONG				KPB816-.25-50D		KPWO816	
	16"	.250W	KPWO-16" LONG				KPB816-.25		KPWO816-.25	
	<b>9 1/2"</b>	10"	.375W	KPWO-5 1/2" LONG			KPB91210		KPWO91210-S	14.00
									KPWO91210	19.00
<b>10"</b>	12"		KPRR1012		KPRL1012	525.41 / 22.50	KPB1012	2.00	KPWO1012	34.10
	12"	.250W					KPB1012-.25	2.00	KPWO1012-.25	34.00
	14"	.375W							KPWO1014	
	14"	.250W					KPB1014-.25		KPWO1014-.25	
	16"	.375W	KPWO-16" LONG						KPWO1016	
	16"	.250W	KPWO-16" LONG				KPB1016-.25		KPWO1016-.25	
<b>11 1/4"</b>	12"		KPWO-5 1/2" LONG				KPB111412		KPW011412-S	21.50
	12"								KPW011412	26.00
<b>12"</b>	14"	.375W					KPB1214-.25-50D	2.75	KPWO1214	32.50
	14"	.250W					KPB1214-.25	2.75	KPWO1214-.25	33.50
	16"	.375W	KPWO-16" LONG				KPB1216-.25-50D	3.25	KPWO1216	41.50
	16"	.250W	KPWO-16" LONG				KPB1216-.25	3.25	KPWO1216-.25	41.50
<b>14"</b>	16"	.375W					KPB1416		KPWO1416	44.00
	16"	.250W					KPB1416-.25	2.75	KPWO1416-.25	44.25

NOTE: LARGER SIZES AVAILABLE, CONSULT FACTORY, ALL WELD ON K-PACKERS CAN BE SUPPLIED ON 304 OR 316 STAINLESS STEEL PIPE (ADDITIONAL CHARGE WILL BE APPLIED).

Available for ALL APPLICATION\* including SPECIALS and STAINLESS STEEL. All weld on K-Packers have a minimum length of 8" unless otherwise stated. Rubber in the MIDDLE is available by request – our standard is rubber on the end.

## WELL PACKERS



WCJ



WC

- Seals in hard rock when using 6" to 6-1/4" hammer
- Used has liner seal in 6" to 6-1/4" ID casing
- Stays where you set it, will not drift up or down in well
- Available in PVC or Steel Pipe
- Can be threaded, NPT pin one or both ends
- 21" long standard length

### WC

PART NO.	DESCRIPTION	WT/LB	
WC-4.0x6.2P	4" x 6 1/4" PVC BLUE PACKER	4.50	
WC-4.0x6.2P-30	4" x 6 1/4" PVC BLACK PACKER, 30 Duro (very soft)	4.50	
WC-4.0x6.2P-50	4" x 6 1/4" PVC BLACK PACKER, 50 Duro (soft)	4.50	
WC-4.0x6.2S	4" x 6 1/4" SCH. 40 STEEL WELD ON BLUE PACKER	16.00	
WC-4.0x6.2S-T	4" x 6 1/4" THREADED ONE END, BLUE PACKER, 4 1/8 ID	16.00	
WC-4.1x6.2S	4 3/16" ID x 6 1/4" STEEL WELD ON BLUE PACKER	15.00	
WC-4.5x6.2P	4 1/2" ID (5" OD) x 6 1/4" PVC BLUE PACKER	5.50	
WC-5.0x6.2P	5" x 6 1/4" PVC BLUE PACKER	5.50	
WC-5.0x6.2S	5" x 6 1/4" SCH. 40 STEEL WELD ON BLUE PACKER	13.50	
WC-5.1x6.2S	5 3/16" ID x 6 1/4" STEEL WELD ON BLUE PACKER	13.50	
WC-6.0X10P	6" x 10" ON PVC PIPE		
WC-6.0X10S	6" x 10" ON STEEL PIPE		
WC-6.9X10P	6 1/4" x 10" ON PVC PIPE (6 1/4" ID)		
WC-7.5X10-PC	7 1/2" OD HALF COUPLING x 10" FOR 6 1/4" WELL CASING		

### WCJ

PART NO.	DESCRIPTION	WT/LB	
WCJ-4.0X6.2P	4" ID X 6 1/4", **PVC** PIPE, BLANK BOTH ENDS	16.00	
WCJ-4.0X6.2S-NT	4" ID X 6 1/4" STEEL – NO THREADS	22.00	
WCJ-4.1X6.2-T	4 1/8" ID X 6 1/4", STEEL, THREADED ONE END, WELL PACKER	15.00	
WCJ-4.1X6.2-2T	4 1/8" ID X 6 1/4", STEEL, THREADED BOTH ENDS, WELL PACKER	15.00	
WCJ-6.0X8.0P	6" X 8", **PVC** PIPE, BLANK ON BOTH ENDS		
WCJ-6.0X8.0-T	6" X 8", STEEL, THREADED ONE END, WELL PACKER		
WCJ-6.0X8.0-2T	6" X 8", STEEL, THREADED BOTH ENDS, WELL PACKER		



# BP SEAL ASSEMBLY

## BP SEAL TYPE

### This assembly features:

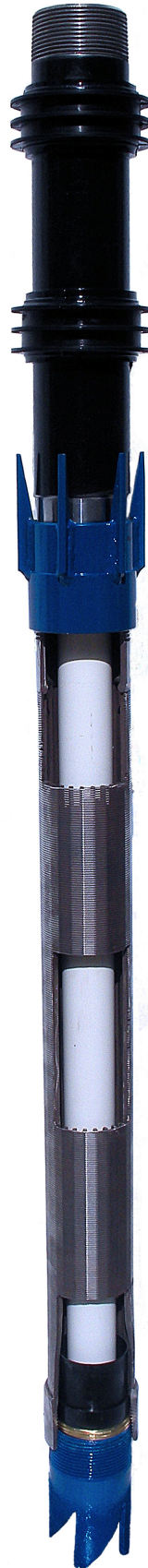
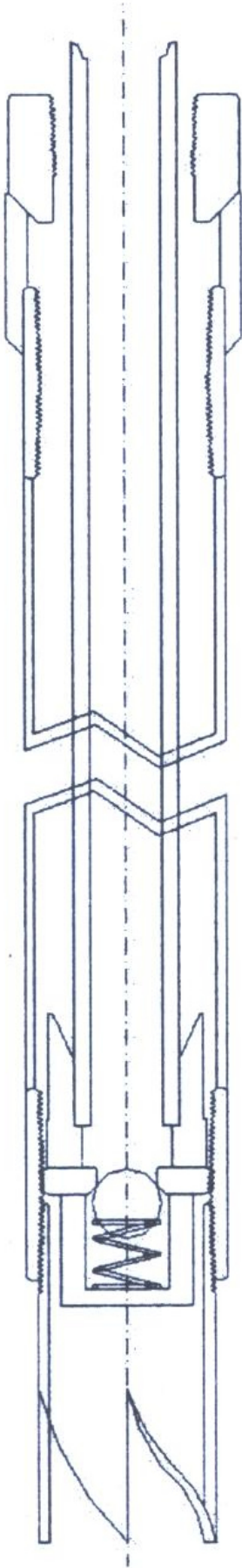
- Full control of the well screen while going into the well casing
- Allows for washout and cleaning of the production zone after the screen is set.
- Allows the well screen to be drilled down some if necessary.
- Screen is sealed into well casing after screen and production zone are cleaned.
- This system will help develop cleaner, trouble-free water well.

### Features of items in assembly:

- B.P. SEAL is threaded onto top of well screen and sealed after cleaning. An additional sealing trip is required.
- WASHPLUG is used to center and seal the customer provided washtube. This provides better flow and pressure to clean the formation.
- BACK PRESSURE VALVE is used to seal the bottom of well screen after washing is completed.
- SAW TOOTH NIPPLE is used to protect the valve and allows the screen to be drilled down if necessary, also provides resistance while un-threading from this assembly.

SCREEN	CASING	BP SEAL	WASHPLUG	VALVE	SAW-TOOTH NIPPLE	
2				BP-VALVE-02.0	BP-S.T.NIP-02.0	
2 ½	4	BP-RR2124	BP-WP212114	BP-VALVE-02.5	BP-S.T.NIP-02.5	
		BP-RL2124		BP-VALVE-02.5x1		
		BP-RL212412				
		BP-RR212412				
3	5	BP-RR35	BP-WP3114	BP-VALVE-03.0	BP-S.T.NIP-03.0	
		BP-RL35		BP-VALVE-03.0x2		
4	6	BP-RR46	BP-WP42	BP-VALVE-04.0	BP-S.T.NIP-04.0	
		BP-RL46		BP-VALVE-04x2		
5	6	BP-WP56				
6	8	BP-RR68	BP-WP62	BP-VALVE-06.0*	BP-S.T. NIP-06.0	
		BP-RL68				
8	10	BP-RR810	BP-WP82	BP-VALVE-08.0*	BP-S.T.NIP-08.0	
		BP-RL810				
10	12	BP-RR1012	BP-WP102	BP-VALVE-10.0*	BP-S.T.NIP-10.0	
12		BP-RL1012	BP-WP122	BP-VALVE-12.0*		

\*AVAILABLE IN BRONZE OR IRON CONSTRUCTION. STAINLESS STEEL AVAILABLE





## BP WELL SEAL

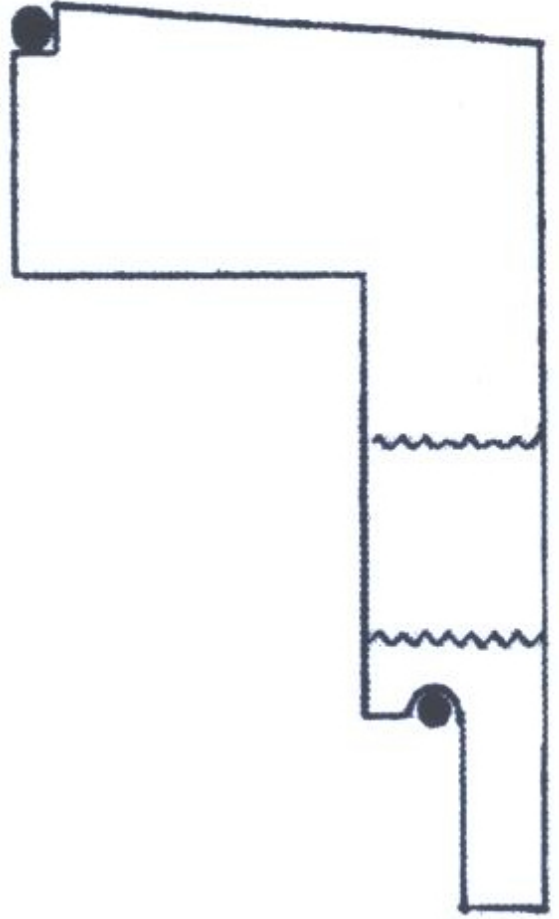
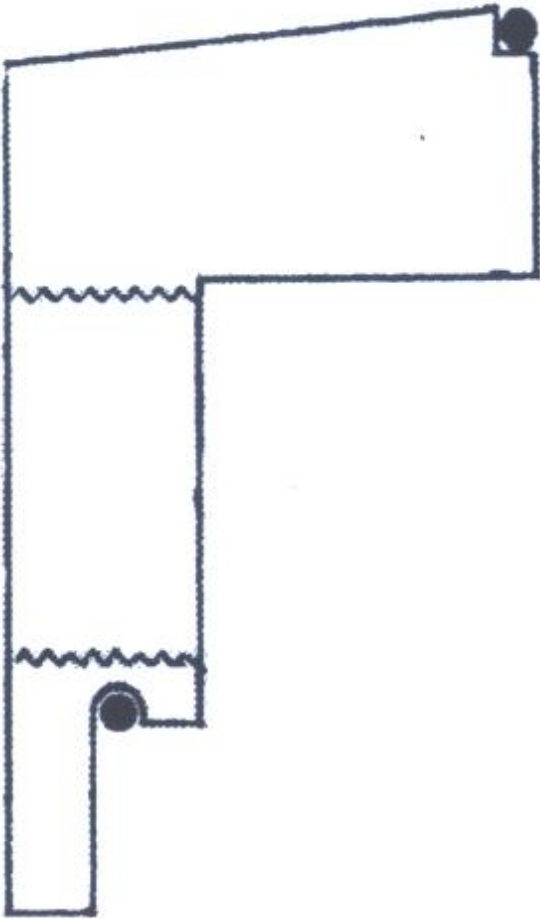


- Available for 4", 5", 6", 8", 10", 12", and 14" well casing
- Two (2) side opening for wires or additional pipe.
- O-Ring sealed in the ID of WELL SEAL and drop pipe.
- 4", 5" and 6" are constructed from lightweight high strength aluminum alloy.
- 8", 10", 12" and 14" are a two-piece, alloy steel construction design.
- Available with a large section of drop pipe sizes.
- Easy on – off design.
- Uses weight of drop pipe to seal on well casing.

CASING SIZE	DROP PIPE SIZE					
	1"	1 ¼"	1 ½"	2"	2 ½"	3"
4"	BP-WS-04.00-1.00	BP-WS-04.00-1.25	BP-WS-04.00-1.50	BP-WS-04.00-2.00	BP-WS-04.00-2.50	BP-WS-04.00-3.00
4 ½" (5OD)	BP-WS-04.50-1.00	BP-WS-04.50-1.25	BP-WS-04.50-1.50	BP-WS-04.50-2.00	BP-WS-04.50-2.50	BP-WS-04.50-3.00
5"	BP-WS-05.00-1.00	BP-WS-05.00-1.25	BP-WP-05.00-1.50	BP-WS-05.00-2.00	BP-WS-05.00-2.50	BP-WS-5.00-3.00
6"	BP-WS-06.00-1.00	BP-WS-06.00-1.25	BP-WS-06.00-1.50	BP-WS-06.00-2.00	BP-WS-06.00-2.50	BP-WS-06.00-3.00
8"	BP-WS-08.00-1.00	BP-WS-08.00-1.25	BP-WS-08.00-1.50	BP-WS-08.00-2.00	BP-WS-08.00-2.50	BP-WS-08.00-3.00
10"	BP-WS-10.00-1.00	BP-WS-10.00-1.25	BP-WS-10.00-1.50	BP-WS-10.00-2.00	BP-WS-10.00-2.50	BP-WS-10.00-3.00
12"	BP-WS-12.00-1.00	BP-WS-12.00-1.25	BP-WS-12.00-1.50	BP-WS-12.00-2.00	BP-WS-12.00-2.50	BP-WS-12.00-3.00
14"	BP-WS-14.00-1.00	BP-WS-14.00-1.25	BP-WS-14.00-1.50	BP-WS-14.00-2.00	BP-WS-14.00-2.50	BP-WS-14.00-3.00

OTHER SIZES OF DROP PIPE AVAILABLE – CONSULT FACTORY





# **COMING SOON:**

- **Tapered Nipple Assembly**
- **Centralizing Coupling**
- **Lug Coupling**

## PIPE WIPERS

- Available in six (6) different styles
- Seven (7) different OD's
- Several hardnesses of NATURAL RUBBER  
55 durometer — STANDARD 30 durometer — SOFT 70 durometer — HARD
- With or without stiffing ring, STEEL
- Large inventory for fast delivery
- Can be supplied for most drill pipe and casing sizes, SPECIALS AVAILABLE



**FLAT**



**CROWN**



**DUAL SPLIT**

PART NO.	STYLE & SIZE	WT/LBS
<b>FLAT</b>		
PWF6.7-X.XX-NS	6-3/4"	2.00
PWF8-X.XX-NS	8"	2.50
PWF9-X.XX	9"	2.70
PWF11-X.XX	11"	4.50
PWF12-X.XX	12"	5.10
PWF13-X.XX	13"	5.30
PWF14-X.XX	14"	6.00
PWF17-X.XX	17"	12.00
PWF19-X.XX	19"	13.60
PWF-9HD-X.XX	9", 1" THICK H D	3.00
PW2F9-X.XX-NS	9", 2" THICK	5.80
PWKM9-X.XX	9" TAPERED	2.60
<b>CROWN</b>		
PWC9-X.XX-NS	9"	3.00
PWC9BH-X.XX-NS	9" HEAVY DUTY	5.00
PWC12-XXX	12"	5.30
PWC14-X.XX	14"	7.00
PWC16-X.XX	16"	9.50
<b>DUAL</b>		
PWD14-X.XX	14"	13.00
<b>KELLY</b>		
PWKH10-X.XX	10"	3.10
<b>SPLIT</b>		
PWS9-X.XX	9"	3.00
PWS14-X.XX	14"	7.00
PWDS14-X.XX	14" DUAL	13.00

We recommend the hole size to be ¼" to ½" under the OD size of the drill pipe. If ordered by PIPE SIZE ONLY the hole will be furnished ½" under pipe size. The tolerance on all holes in our wipers are + / - 1/8". Consult factory for availability of other sizes, styles, and hole sizes.

**\*\*PLEASE ORDER BY HOLE SIZE ID\*\***

## PIPE FITTINGS



**NIPPLE**



**COUPLING**

- Available in RIGHT by RIGHT or RIGHT by LEFT
- Most couplings in Standard or TURNED OD, smaller diameter
- Shipped from our large stock
- A perfect mate when using our K-PACKERS

PIPE SIZE	NIPPLE R X LEFT	WT.		COUPLING R X R, STANDARD	WT.		COUPLING R X R TURNED	WT.	PRICE	COUPLING R X LEFT	WT.	
1-1/4"	F-NIP-01.2RL			F-CPLG-01.2RR			F-CPLG-1.2RR-T		8.41	F-CPLG-01.2RL-T		
	F-NIP-01.5RL									F-CPLG-01.2RL		
2"	F-NIP-02.0RL			F-CPLG-02.0RR			-----			F-CPLG-02.0RL		
2-1/2"	F-NIP-02.5RL			F-CPLG-02.5RR			-----			F-CPLG-02.5RL		
3"	F-NIP-03.0RL			F-CPLG-03.0RR			F-CPLG-03.0RR-T		26.94	F-CPLG-03.0RL-T		
										F-CPLG-03.0RL		
4"	F-NIP-04.0RL			F-CPLG-04.0RR			F-CPLG-04.0RR-T		36.44	F-CPLG-04.0RL-T		
										F-CPLG-04.0RL		
5"	F-NIP-05.0RL			F-CPLG-05.0RR			F-CPLG-05.0RR-T		41.70	F-CPLG-05.0RL-T		
										F-CPLG-05.0RL		
6"	F-NIP-06.0RL			F-CPLG-06.0RR			-----			F-CPLG-06.0RL		
8"	F-NIP-08.0RL			F-CPLG-08.0RR			-----			F-CPLG-08.0RL		
10"	F-NIP-10.0RL			F-CPLG-10.0RR			-----			F-CPLG-10.0RL		
12"	F-NIP-12.0RL			F-CPLG-12.0RR			-----			F-CPLG-12.0RL		



## TANK SEAL

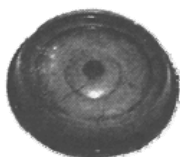
PRICE: TPS4 - 6.43  
TPS6 - 7.07

TPS4 – FOR 4" STEEL OR PVC PIPE  
TPS6 – FOR 6" STEEL OR PVC PIPE

- Low Pressure Sealing
- Easy to install
- Available in two (2) pipe sizes
- No gluing or bonding required
- Manufactured from 55 durometer Natural Rubber
- For 4" and 6" pipe

## CORD SEAL

PRICE: CONSULT



**CS**

- Low Pressure Sealing for wires
- Water Tight
- No gluing or bonding required
- One size for all wire sizes
- Manufactured from 55 durometer Natural Rubber

## MUD PUMP PARTS



### PISTON

Complete piston available from 3" to 7-1/2" for series A and B, having the following tapers:

SERIES A – GD-1 and API-1

SERIES B – API-3, API-4, API-5, API-6

### PISTON RUBBER KITS

For all SERIES A, SERIES B, and SERIES K piston hubs, manufactured for a high grade of coated fabric and 80 durometer XNBR. This provides a high degree abrasion resistance and oil resistance insuring longer life in most pumping applications. OUR PISTON RUBBER KITS ARE SUITABLE REPLACEMENT PARTS FOR ALL API PISTON HUBS.



### LINERS and PISTON RODS

For most GARDNER DENVER pumps, we are stocking liner and rods for the 4 x 5, 5 x 6, 5 x 8, 5-1/2 x 8, and the 7-1/2 x 10. These parts are manufactured from high grade alloy steel and hardened for durability.



### LINER SEALS

For most Gardner Denver Liners. Manufactured from a high grade nitrile rubber insuring long life and a positive seal.



### VALVES, VALVE SEATS and VALVE INSERTS

For most Gardner Pumps. Available in both STANDARD and GRAVEL. Manufactured from a high grade nitrile rubber and urethane material.

### ROD BAFFLES

For most Gardner Denver pumps.

# MUD PUMP PARTS

## ROD BAFFLES

PART NO.	DESCRIPTION		WT / LBS
RB-2FXF840	4 x 5 ROD BAFFLE, 15/16" ID		1/4
RB-1FXG840	5 x 6 ROD BAFFLE, 1" ID		1/4
RB-1FXX840	5, 5 1/2 & 7 1/2 x 8 AND 10 ROD BAFFLE, 1 1/2" ID		3/4

## ROD, PISTON (Hardened Steel)

MPP-R-4.5X05-G1	ROD, 4 – 4 1/2" X 5, GD-1 taper		7
MPP-R-5.0X06-G1	ROD, 5 X 6, GD taper		8
MPP-R-5.0X06-A1	ROD, 5 X 6, API-1 taper		8
MPP-R-5.0X08-A3	ROD, 5 X 5 1/2" X 8, API-3 taper		8
MPP-R-5.5X10-A3	ROD, 5 X 5 1/2" X 10, API-3 taper		8
MPP-R-7.5X08-A3	ROD, 7 1/2" X 8, API-3 taper		15
MPP-R-7.5X10-A3	ROD, 7 1/2" X 10, API-3 taper		20

## LINERS (Hardened Steel)

MPP-L-4.0X05-4.0	LINER, 4 X 5, 4" piston bore		8
MPP-L-4.0X05-4.5	LINER, 4 X 5, 4 1/2" piston bore		8
MPP-L-5.0X06-4.5	LINER, 5 X 6, 4 1/2" piston bore		10
MPP-L-5.0X06-5.0	LINER, 5 X 6, 5" piston bore		10
MPP-L-5.0X06-5S	LINER (SHORT), 5 X 6, 5" piston bore (for Failing pumps)		10
MPP-L-5.0X08-5.0	LINER, 5 X 8, 5" piston bore		15
MPP-L-5.5X08-5.5	LINER, 5 1/2 X 8, 5 1/2" piston bore		15

## VALVE & VALVE SEATS

MPP-VALVE-4X5-S	VALVE, 4x5, Standard		5
MPP-VALVE-4X5-G	VALVE, 4X5, Gravel		5
MPP-VALVE-5X6-S	VALVE, 5X6, Standard		6
MPP-VALVE-5X6-G	VALVE, 5X6, Gravel		6
MPP-SEAT-4X5-S	SEAT, Valve, 4X5, Standard		1
MPP-SEAT-4X5-G	SEAT, Valve, 4X5, Gravel		1
MPP-SEAT-5X6-S	SEAT, Valve, 5X6, Standard		1
MPP-SEAT-5X6-G	SEAT, Valve, 5X6, Gravel		1

## RUBBER, VALVE INSERT

VI-5EF452	INSERT, Valve, for 5"X8" FC series GD Pumps		1/4
VI-IFF452	INSERT, Valve, 4"X5" Standard		1/4
VI-227B	INSERT, Valve, 4"X5" Gravel		1/4
VI-IFG452	INSERT, Valve, 5"X6" Standard		1/4
VI-213B	INSERT, Valve, 5"X6" Gravel		1/4
VI-X308	INSERT, Valve		1/4
VI-DD7B	INSERT, Valve		1/4
VI-201PZL106	INSERT, Valve		1/4
VI-200FYY106	INSERT, Valve, 7 1/2" X 10" Gravel		1/2

## “MUD PUMP PARTS” PISTONS AND REPAIR KITS

### COMPLETE PISTON PART NO.

<b>SERIES A</b>	MPP-3.0A-xxxx	
	MPP-3.5A-xxxx	
	MPP-4.0A-xxxx	
	MPP-4.5A-xxxx	
	MPP-5.0A-xxxx	

### REPAIR KITS PART NO.

MPP-PRK-3.0A	
MPP-PRK-3.5A	
MPP-PRK-4.0A	
MPP-PRK-4.5A	
MPP-PRK-5.0A	

<b>SERIES B</b>	MPP-4.5B-xxxx			MPP-PRK-4.5B	
	MPP-4.5B-1.6-SA		SINGLE	MPP-PRK-4.5B-SA	
	MPP-5.0B-xxxx			MPP-PRK-5.0B	
	MPP-5.0B-1.6-SA		SINGLE	MPP-PRK-5.0B-SA	
	MPP-5.5B-xxxx			MPP-PRK-5.5B	
	MPP-5.5B-1.6-SA		SINGLE	MPP-PRK-5.5B-SA	
	MPP-6.0B-xxxx			MPP-PRK-6.0B	
	MPP-6.0B-1.6-SA		SINGLE	MPP-PRK-6.0B-SA	
	MPP-6.5B-xxxx			MPP-PRK-6.5B	
	MPP-7.0B-xxxx			MPP-PRK-7.0B	
	MPP-7.2B-xxxx			MPP-PRK-7.2B	
	MPP-7.5B-xxxx			MPP-PRK-7.5B	

<b>SERIES K</b>	MPP-3.5K-1.6-SA		SINGLE	MPP-PRK-3.5K-SA	
				MPP-PRK-3.5K-DA	
	MPP-4.0K-1.6-SA		SINGLE	MPP-PRK-4.0K-SA	
				MPP-PRK-4.0K-DA	
	MPP-4.5K-1.6-SA		SINGLE	MPP-PRK-4.5K-SA	
				MPP-PRK-4.5K-DA	

<b>SERIES L</b>	MPP-6.5L-1.6-SA		SINGLE	MPP-PRK-6.5L-SA	
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xxxx – Please state taper type of piston hub.

All repair kits are double acting unless otherwise stated.

All single acting repair kits includes (1) piston rubber, (1) retainer plate, and (1) retainer spring.

All double acting repair kits includes (2) piston rubber, (2) retainer plates, and (2) retainer springs.

### ROD PACKING (PER LB.)

MPP-RP-4.0X05.0	4 X 5 ROD PACKING	
MPP-RP-5.0X6.0	5 X 6 ROD PACKING	
MPP-RP-5.5X08	5 X 8 ROD PACKING	

### LINER SEALS

SL-200FFF519	4 ½ X 5 LINER SEAL	
SL-2FF519	4 X 5 LINER SEAL	
SL-4.5-L100	4 ½ X 5 FAILING	
SL-25T2T	5 X 6 LINER SEAL	
SL-D1826	5 X 6 FAILING	
SL-4EF519	5 X 8 LINER SEAL	
SL-5.5X08.0	5 ½ X 8 LINER SEAL	

**CONTACT US FOR THE FOLLOWING ITEMS:**  
**VALVE COVER GASKETS**  
**HEAD GASKETS**  
**JUNK RINGS**  
**OTHER FLUID END PARTS**



## MONITORING PRODUCTS

### BG SHALE TRAP (Formation Packer)



**TYPE BG**  
**FORMATION PACKER**

- Available for most standard environmental well casing
- Manufactured from a SILICON material
- Contains NO hydrocarbons or other toxic materials
- Designed for grouting between well casing and bore hole
- For identification – Colored BROWN
- Provided with STAINLESS STEEL CLAMP

#### AVAILABLE IN THE FOLLOWING SIZES

PART NUMBER	PIPE SIZE	OD OF PACKER	TYPE	WT/LBS.	
BG2612-C	2"	6-1/2"	CODE BROWN	1.15	
BG36-C	3"	6"	CODE BROWN	1.10	
BG4812-C	4"	8"	CODE BROWN	1.55	
BG61012-C	6"	10"	CODE BROWN	3.55	

\*\*OTHER SIZES AVAILABLE, PLEASE CONSULT FACTORY\*\*

### CG QUAD SEAL (Blank K-Packer)



**TYPE CG**  
**QUAD SEAL PACKER**

- Provides a sand tight seal between well casing and drop pipe.
- Manufactured from a SILICON material.
- Contains NO hydrocarbons or other toxic material
- Available in most popular sizes for the environmental market
- For identification – Colored BROWN

#### AVAILABLE IN THE FOLLOWING SIZES

PART NUMBER	PIPE SIZE	CASING SIZE	TYPE	WT/LBS	
CG12	1"	2", SCH. 40	CODE BROWN	.08	
CG1142	1-1/4"	2", SCH. 40	CODE BROWN	.05	
CG14	1"	4", SCH. 40	CODE BROWN	.50	
CG1144	1-1/4"	4", SCH. 40	CODE BROWN	.47	
CG24	2"	4", SCH. 40	CODE BROWN	.87	



# MONITORING PRODUCTS

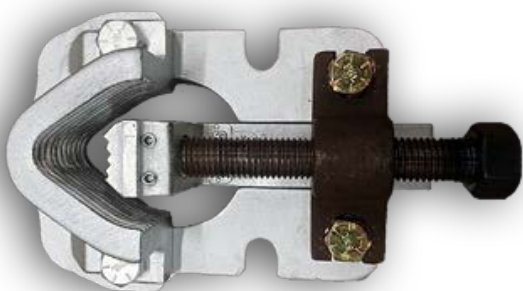


## ORANGE AID

- HYDROCARBON FREE Tool Joint Compound
- Contains NO METALS, Lead / Copper
- Protect and lubricates drill pipe threads
- HELPS STOP GALLING
- Field proven
- Easy to apply – Stays on thread even while wet.
- Packaged in one (1) gallon containers
- INDEPENDENT LAB ANALYSIS available upon request

PART NO.	DESCRIPTION	
OA	Orange Aid, one (1) gallon, HYDRO-CARBON FREE Tool Joint Compound	

## JS (PVC Pipe Clamps)



- Three Sizes, ½" – 2", 2" – 6", 8" – 10"
- Excellent on FLUSH JOINT PIPE
- Strong but light weight using an aluminum alloy base plate.
- Large opening in base plates allows couplings to pass through
- Tested to 4000 lbs.
- Field Proven, can be used in both the MONITORING and WATER WELL market.

## TECHNICAL DATA

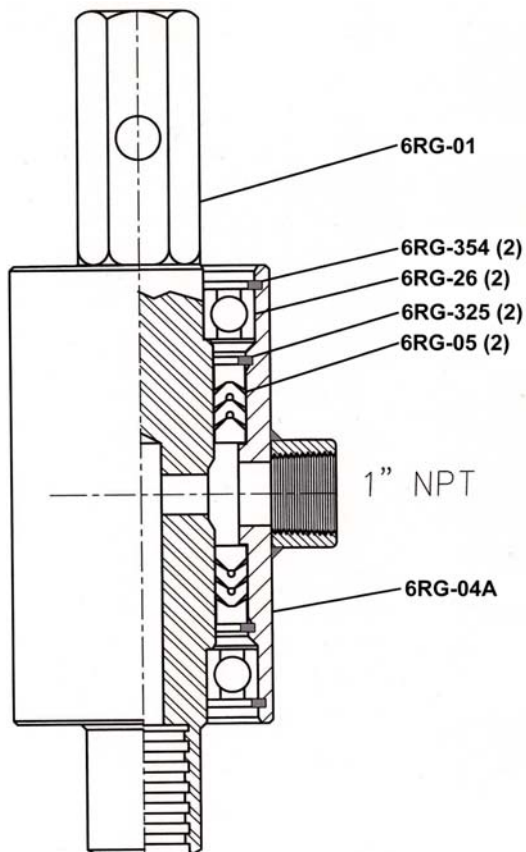
MODEL	PIPE SIZES	MAX. OPENING	BASE PLATE	CONSTRUCTION	WT/LB
122JS-7010-01	½" TO 2"	3"	7-1/2" X 5-3/4"	ALUMINUM/BRASS	7.00
26JS-7020-01	2" TO 6"	7-1/2"	16" X 10 ½"	ALUMINUM/BRASS	23.00
810JS-7020-01	8" TO 10"	12"	22-1/2" X 18-1/2"	ALUMINUM/BRASS	66.00

## PARTS LIST

PART NAME	NUM. REQ.	122JS	WT		26JS	WT.		810JS	WT.	
ASSEMBLY		122JS-7010-01	7.00		26JS-7020-01	23.0		810JS-7030-01	66.00	
NUT, ADJUSTING	1	122JS-01	.80		26JS-01	3.10		810JS-01	4.50	
CAP SCREW, ADJ. NUT	2	122JS-01A	.10		26JS-01A	.10		810JS-01A	.10	
SCREW W/HANDLE	1	122JS-02	.35		26JS-02	2.90		810JS-02	8.00	
SLIDE	1	122JS-03	.50		26JS-03	1.40		810JS-03	5.00	
RETAINER PIN, SLIDE	2	122JS-03A	.01		26JS-03A	.01		810JS-03A	.01	
SET SCREW, SLIDE	2	122JS-03B	.01		26JS-03B	.01		810JS-03B	.01	
HEEL	1	122JS-04	1.00		26JS-04	3.00		810JS-04	10.00	
CAP SCREW, HEEL	2	122JS-04A	.10		26JS-04A	.10		810JS-04A	.10	
BASE PLATE	1	122JS-05	1.60		26JS-05	11.50		810JS-05	37.00	
SLIDE ASSEMBLY*	OPTION	122JS-06	1.50		26JS-06	4.00		810JS-06	13.00	

\*CONTAINS: SCREW W/HANDLE, SLIDE, RETAINER PINS, AND SET SCREWS

## SPECIAL INLETS “SPECIAL SWIVEL” 6RG



- Manufactured from high grade alloy steel
- Working Pressures to 350 PSI
- Radial Ball Bearings for smooth rotation
- Non adjustable chevron (V-ring) packing
- Grease Lubricated
- Can be used for both mud and air drilling
- Can be repaired if necessary in the field
- 6RG-S-4005-XX has a working pressure to 750 PSI

### TECHNICAL DATA

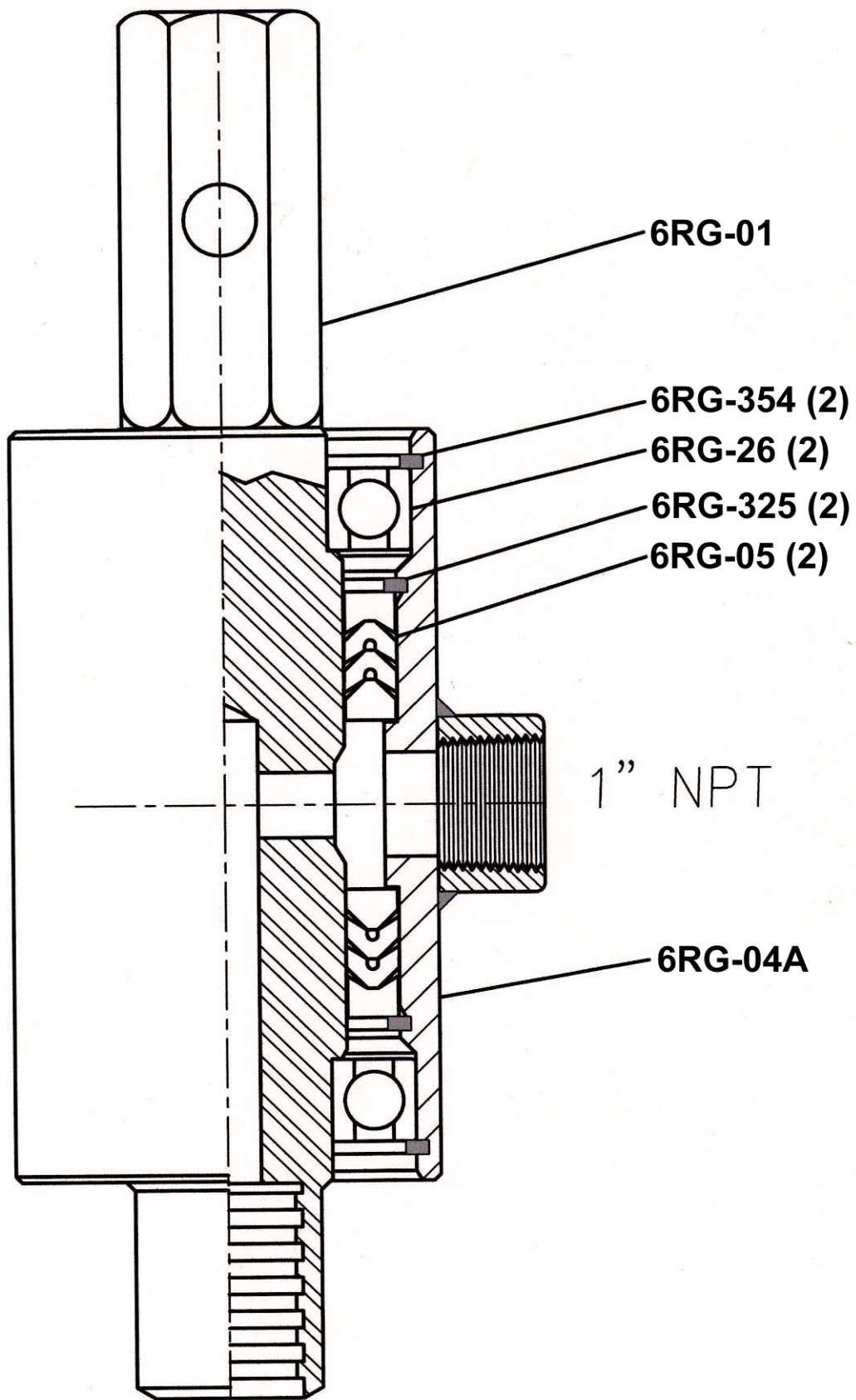
MODEL#	OVERALL LENGTH	WIDTH	WEIGHT LBS.	UPPER	HOSE CONN.	LOWER CONN.	WATERCOURSE CONN.
6RG	13-1/2"	4"	22.0	1-5/8" HEX	1"	AW BOX	5/8"

### PARTS LIST

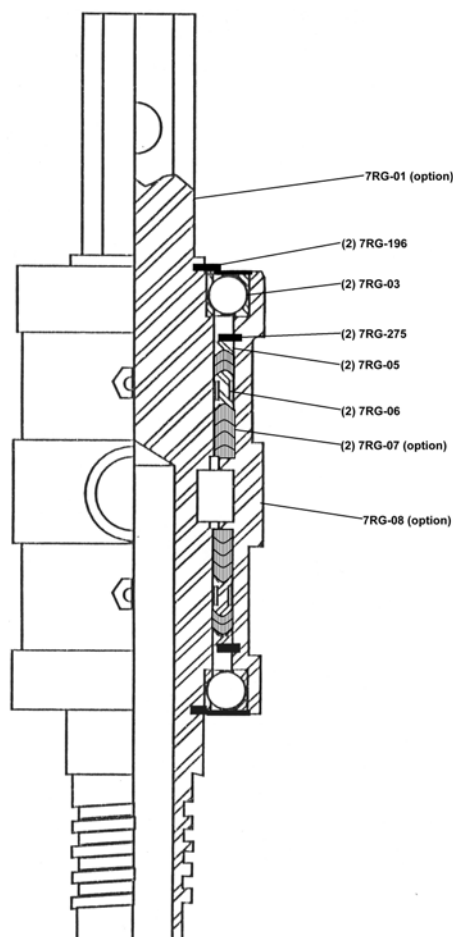
PART NO.	DESCRIPTION	WT/LB EACH	QTY. REQ.	
<b>6RG-4005-XX</b>	WESTERN SIDE INLET SWIVEL, 1 5/8" MALE HEX TOP CONN., 1" NPT FEMALE HOSE CONNECTION WITH AW ROD RH BOX LOWER CONNECTION			
<b>6RG-S-4005-XX</b>	WESTERN SIDE INLET SWIVEL WITH STEEL ADAPTER 1 5/8" MALE HEX TOP CONN., 1" NPT FEMALE HOSE CONNECTION WITH AW ROD RH BOX LOWER CONNECTION			
	ADD FOR "SPECIAL STEM"			
6RG-01	STEM, 1 5/8" HEX BY AW RH BOX	9.50	1	
6RG-04A	PACK OFF HOUSING 1" NPT H/C	8.50	1	
6RG-05	PACKING SET WITH MALE ADAPTER	.50	2	
6RG-05-FA-S	PACKING SEAT RING, <i>STEEL</i>	.25	Option	
6RG-26	BEARINGS	2.30	2	
6RG-325	RETAINER, PACKING	.10	2	
6RG-354	RETAINER, BEARING	.10	2	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory



## SIDE INLETS “SPECIAL SWIVEL” 7RG



- Manufactured from a high grade alloy steel
- WORKING PRESSURES TO 2000 PSI
- Can be used for mud and air drilling
- Proven CHEVRON PACKING, V-Ring
- Radial sealed ball bearing for smooth rotation
- Can be repaired if necessary in the field.
- Large selection of top and bottom connections

### TECHNICAL DATA

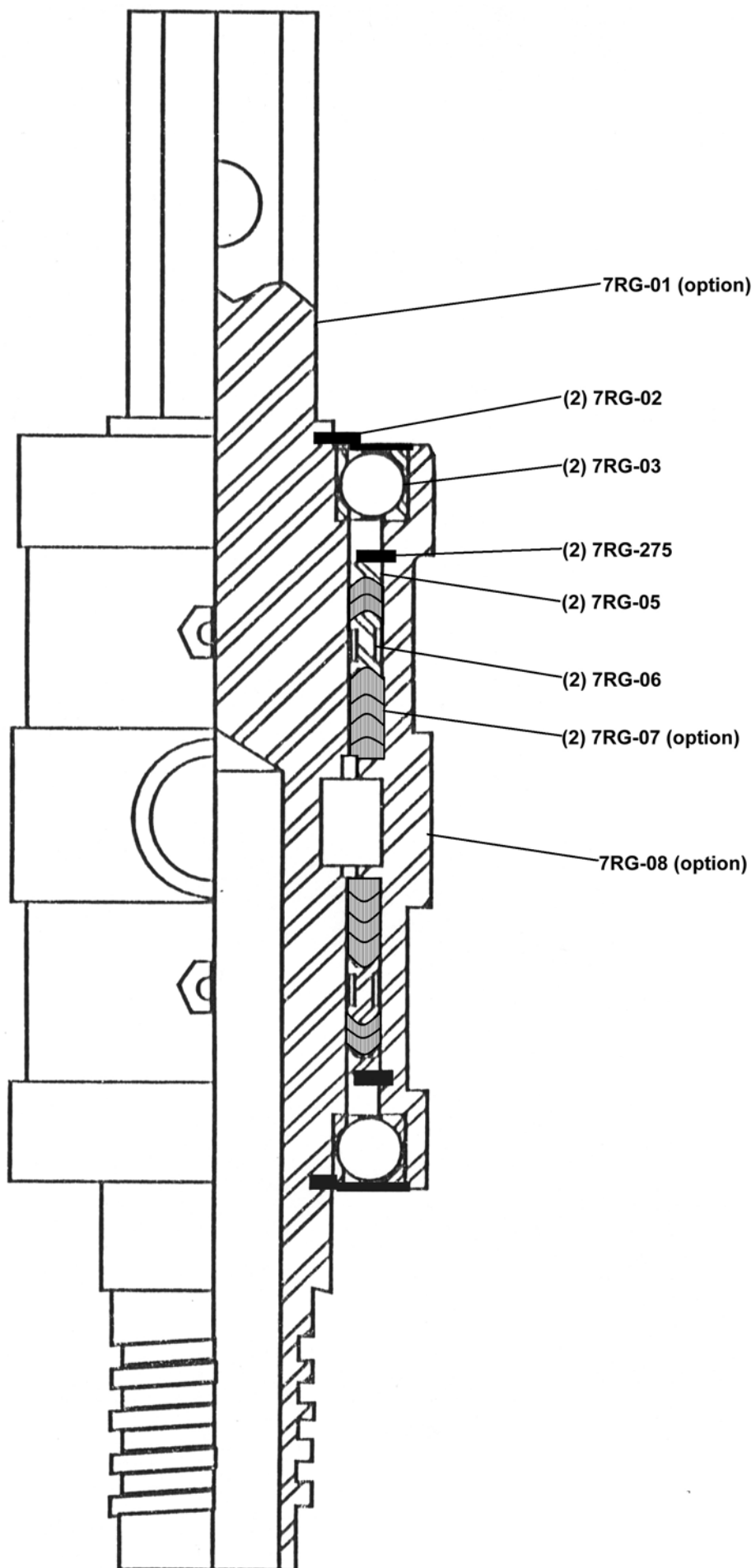
MODEL# LENGTH	OVERALL	WIDTH	WEIGHT LBS.	UPPER* CONN.	HOSE CONN.	LOWER * CONN.	WATER COURSE
7RG	12"	3-1/2"	15	1-5/8"	1"	AW PIN	5/8"

### PARTS LIST

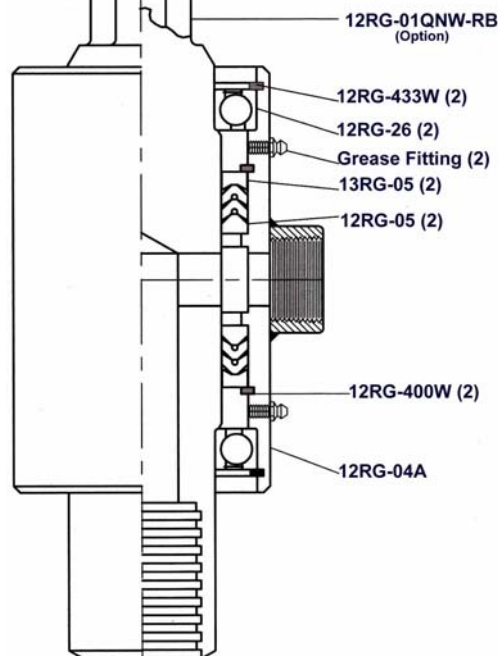
PART NAME	DESCRIPTION	WT/LB EACH	QTY REQ	
<b>7RG-4010-XX</b>	WESTERN SIDE INLET, 1 5/8" MALE HEX TOP CONN., 1" NPT FEMALE HOSE CONNECTION WITH AWJ RH PIN LOWER CONNECTION			
	ADD FOR "SPECIAL STEM"			
7RG-01QAW-RP	STEM, 1 5/8" MALE HEX BY AW RH PIN	9.00	1	
7RG-01QAWJ-RP	STEM, 1 5/8" MALE HEX BY AWJ RH PIN	9.00	OPTION**	
7RG-03	BEARINGS	.70	2	
7RG-05	SEAT RING, PACKING	.30	2	
7RG-06	LANTERN RING	.30	2	
7RG-07	PACKING SET W/MALE ADAPTER	.40	2	
7RG-07-416	PACKING SET (LOW PRESSURE) W/ MALE ADAPTER	.40	OPTION	
7RG-08A	PACKOFF BOX, 1" NPT FEMALE	6.00	1	
7RG-02	RETAINER, BEARING	.10	2	
7RG-275	RETAINER, PACKING	.10	2	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## SIDE INLETS “SPECIAL SWIVEL” 12RG



- Manufactured from high grade alloy steel
- Working Pressures to 750 PSI
- Radial Ball Bearings for smooth rotation
- Non adjustable chevron (V-ring) packing
- Grease Lubricated
- Can be used for both mud and air drilling
- Can be repaired if necessary in the field

### TECHNICAL DATA

MODEL#	OVERALL LENGTH	WIDTH	WEIGHT LBS.	UPPER	HOSE CONN.	LOWER CONN.	WATERCOURSE CONN.
12RG	14-1/16"	5"	35.0	1-5/8" OR 2" HEX	1-1/4"	NW BOX	1-1/4"

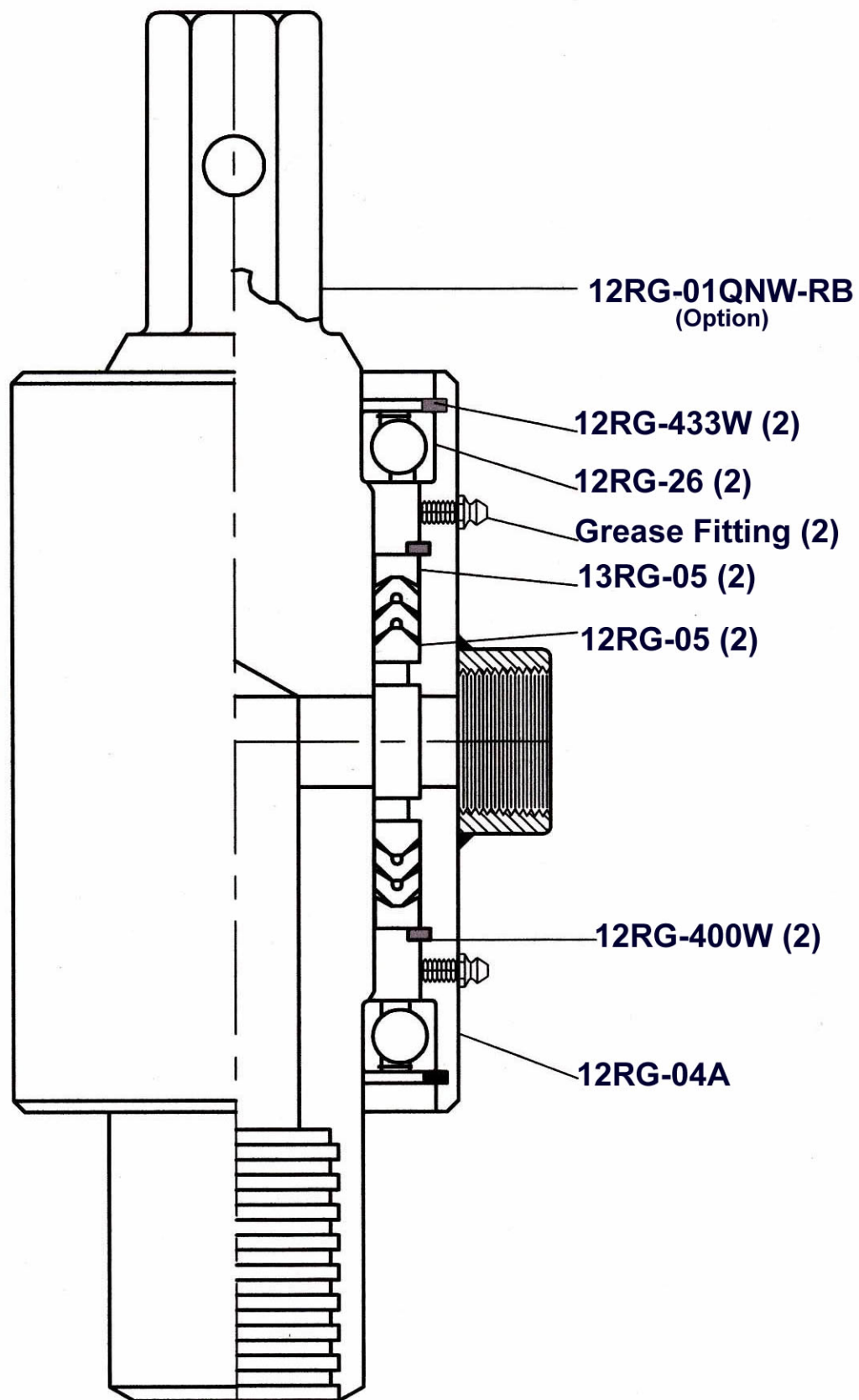
### PARTS LIST

PART NO.	DESCRIPTION	QTY REQ.	WT/LBS EACH	
<b>12RG-4015-XX</b>	WESTERN SIDE INLET SWIVEL 1 5/8" OR 2" MALE HEX TOP CONNECTION, 1 1/4" NPT FEMALE HOSE CONNECTION, WITH NW RH BOX OR NWJ RHP IN LOWER CONNECTION			
	ADD FOR "SPECIAL STEM"			
12RG-01QNW-RB	STEM, 1-5/8" HEX BY NW RH BOX	1	16.50	
12RG-01RNW-RB	STEM, 2" MALE HEX BY NW RH BOX	OPTION	18.50	
12RG-01QNWJ-RP	STEM, 1 5/8" MALE HEX BY NWJ RH PIN	OPTION	17.50	
12RG-01RNWJ-RP	STEM, 2" MALE HEX BY NWJ RH PIN	OPTION	19.50	
12RG-04	PACKOFF HOUSING	1	14.50	
12RG-05	PACKING SET	2	.50	
12RG-26	BEARINGS	2	2.50	
12RG-400W	RETAINER, PACKING	2	.10	
12RG-433W	RETAINER, BEARING	2	.10	
13RG-05	RING, PACKING SEAT	2	.30	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# SIDE INLETS “SPECIAL SWIVEL” 13RG



- Manufactured from a high grade alloy steel
- WORKING PRESSURES TO 2000 PSI
- Can be used for mud and air drilling
- Proven CHEVRON PACKING, V-Ring
- Radial sealed ball bearing for smooth rotation
- Can be repaired if necessary in the field.
- Large selection of top and bottom connections
- Grease lubricated bearings and packing

## TECHNICAL DATA

MODEL# LENGTH	OVERALL	WIDTH	WEIGHT LBS.	UPPER* CONN.	HOSE CONN.	LOWER * CONN.	WATER COURSE
13RG	19"	5-1/2"	50	1-5/8" OR 2"	1-1/2"	NW PIN	1-3/8"
						NWJ PIN	1-3/8"

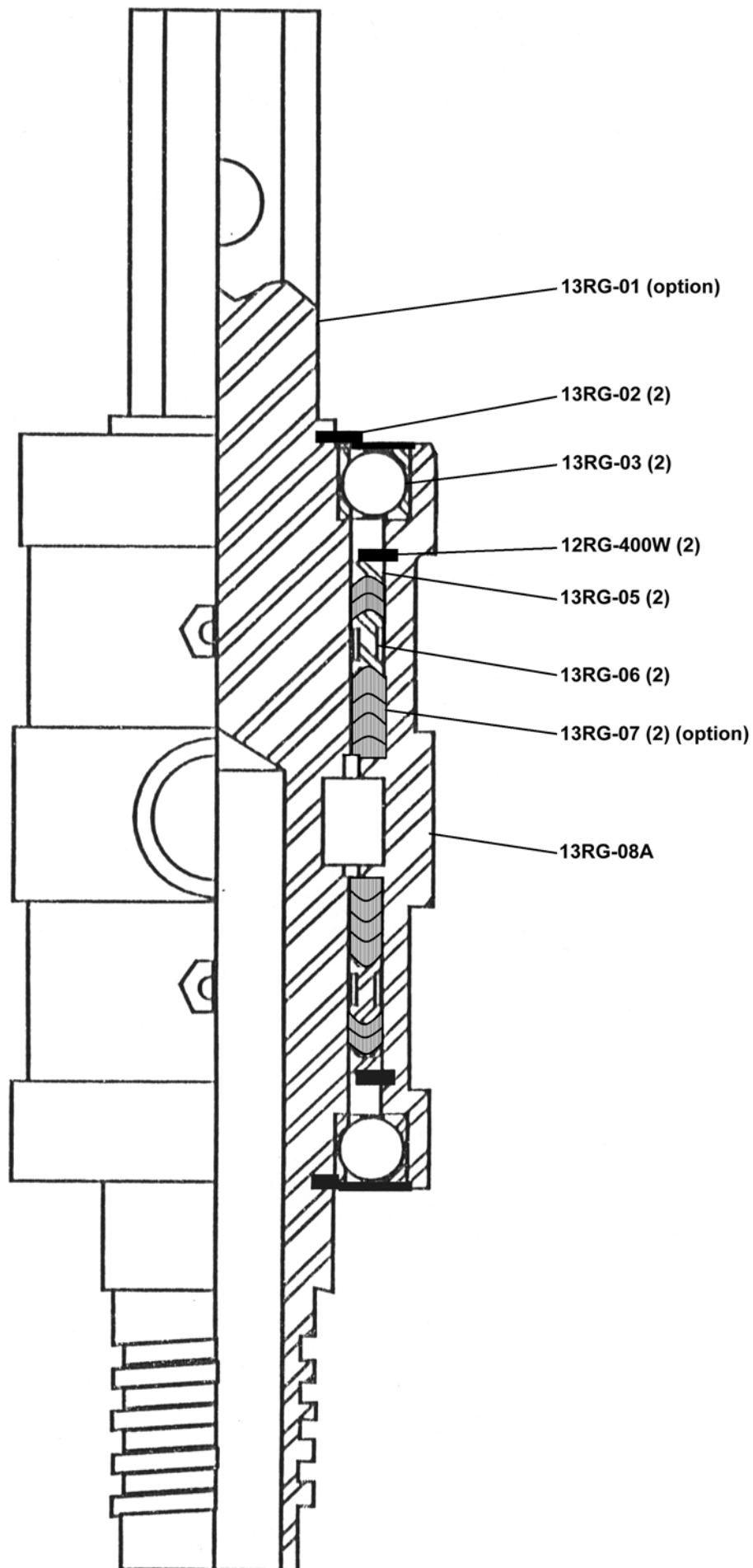
## PARTS LIST

PART NO.	DESCRIPTION	QTY REQ.	WT/LBS EACH	
<b>13RG-4020-XX</b>	WESTERN SIDE INLET SWIVEL 1 5/8" OR 2" MALE HEX TOP CONNECTION, 1 1/2" NPT FEMALE HOSE CONNECTION, WITH NW ROD RH PIN OR NWJ RH PIN LOWER CONNECTION			
	ADD FOR "SPECIAL STEM"			
13RG-01QNW-RR	STEM, 1 5/8" MALE HEX BY NW RH PIN	OPTION	24.50	
13RG-01RNW-RP	STEM, 2" MALE HEX BY NW RH PIN	OPTION	24.50	
13RG-01QNWJ-RP	STEM, 1 5/8" MALE HEX BY NWJ RH PIN	OPTION	24.50	
13RG-01RNWJ-RP	STEM, 2" MALE HEX BY NWJ RH PIN	OPTION	24.50	
13RG-03	BEARING	2	2.20	
13RG-05	SEAT RING, PACKING	2	.30	
13RG-06	LANTERN RING	2	.40	
13RG-07	PACKING SET WITH MALE ADAPTER	2	.50	
13RG-07-416	PACKING SET (LOW PRESSURE) WITH MALE ADAPTER	OPTION	.50	
13RG-08A	PACKOFF HOUSING, 1 1/2" NPT FEMALE	1	19.00	
13RG-02	RETAINER, BEARING	2	.10	
12RG-400W	RETAINER, PACKING	2	.10	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# SIDE INLETS “SPECIAL SWIVEL” 20RG



- Three (3) sizes for proper watercourse and torque selection
- Manufactured from a high grade alloy steel
- WORKING PRESSURES TO 2000 PSI
- Can be used for mud and air drilling
- Proven CHEVRON PACKING, V-Ring
- Radial sealed ball bearing for smooth rotation
- Can be repaired if necessary in the field.
- Large selection of top and bottom connections
- 20RG can be provided with an AUGER DRIVE CAP.

## TECHNICAL DATA

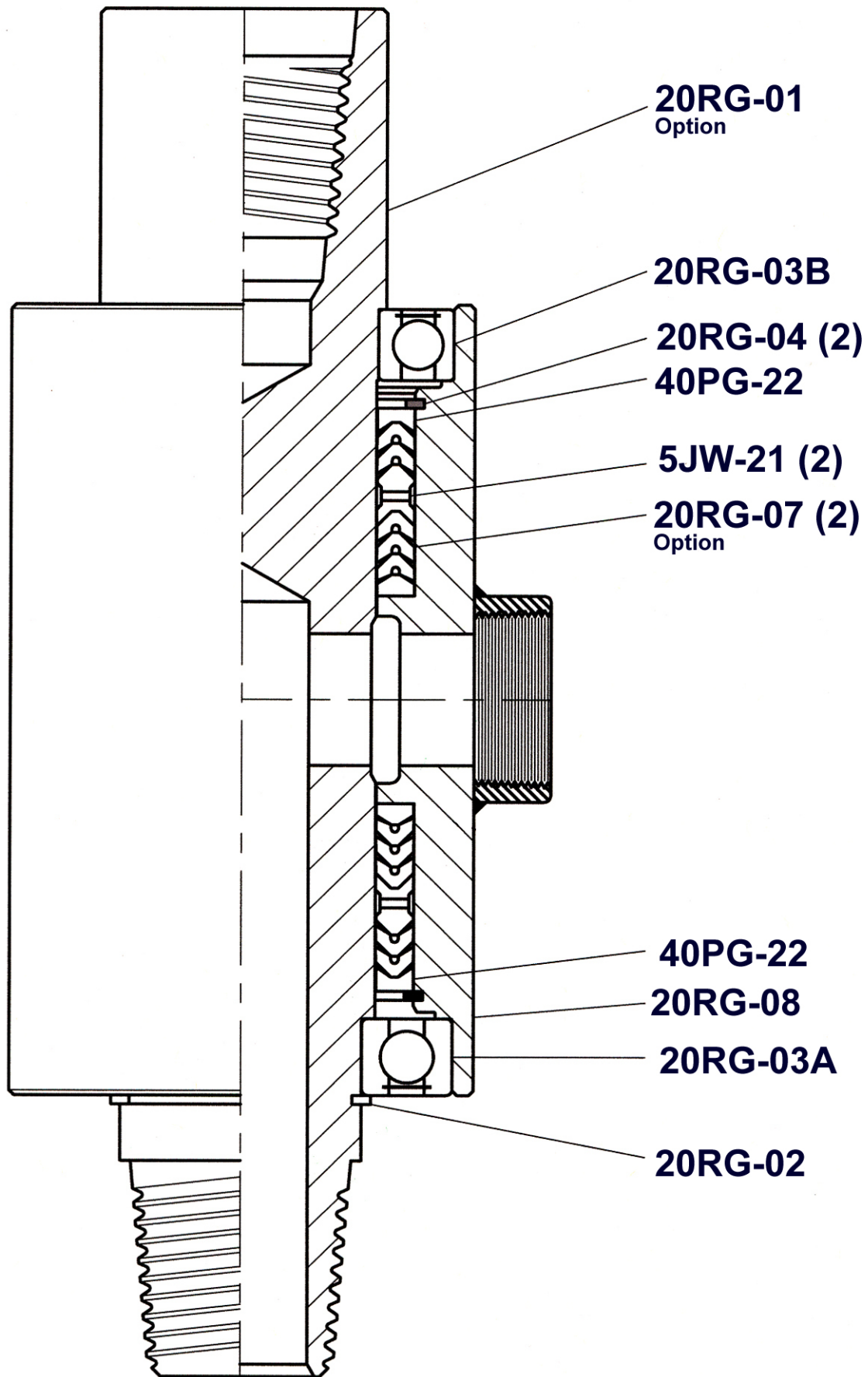
MODEL#	OVERALL LENGTH	WIDTH	WEIGHT LBS.	UPPER* CONN.	HOSE CONN.	LOWER* CONN.	WATER COURSE
20RG	21"	6"	75	1-5/8" OR 2"	2"	2-3/8" IF	1-3/4"
						2-7/8" IF	2"

## PARTS LIST

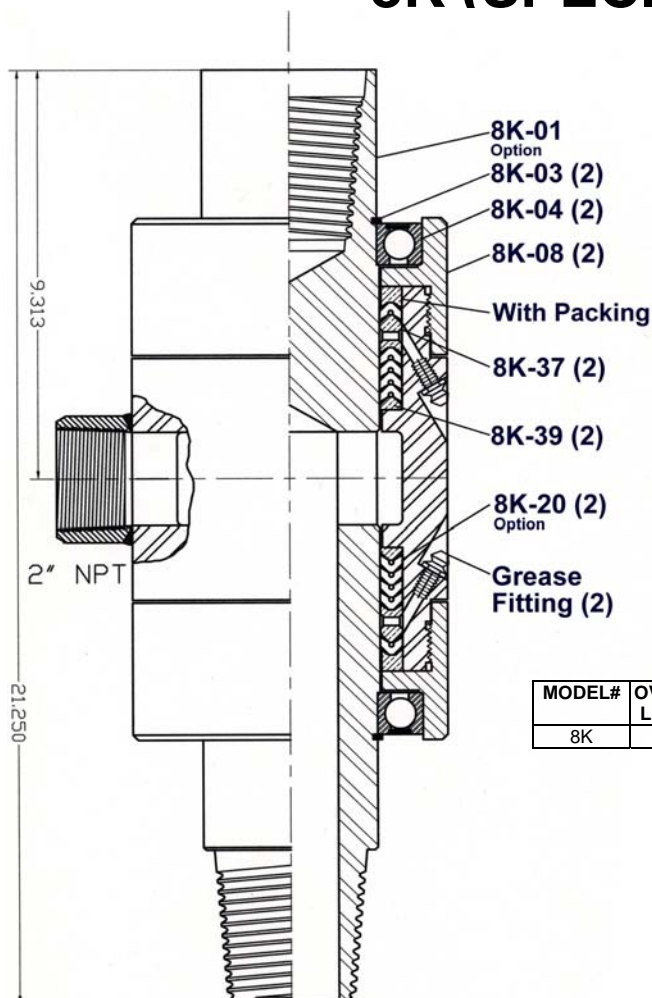
PART NO.	DESCRIPTION	QTY REQ.	WT/LBS EACH	
<b>20RG-4030-XX</b>	WESTERN SIDE INLET SWIVEL, 1 5/8" OR 2" MALE HEX TOP CONNECTION, 2" NPT FEMALE HOSE CONNECTION, WITH 2 3/8" OR 2 7/8" IF RH PIN LOWER CONNECTION			
	ADD FOR "SPECIAL STEM" OR DRILLING FOR DRIVE CAP			
	ADD FOR "DRIVE CAP ADAPTER"			
20RG-01QFE-RP	SHAFT, 1 5/8" MALE HEX BY 2 3/8" IF RH PIN	OPTION**	32.00	
20RG-01RFE-RP	SHAFT, 2" MALE HEX BY 2 3/8" IF RH PIN	OPTION**	35.00	
20RG-01QGE-RP	SHAFT, 1 5/8" MALE HEX BY 2 7/8" IF RH PIN	OPTION**	35.00	
20RG-01RGE-RP	SHAFT, 2" MALE HEX BY 2 7/8" IF RH PIN	OPTION**	38.00	
20RG-01RGE-RPPC	SHAFT, 2" MALE HEX BY 2 7/8" IF RH PIN (FOR DRIVE CAP ADAPTER)	OPTION**	38.00	
20RG-02	RETAINER, BEARING	1	.10	
20RG-03A	BEARING, TOP	1	2.60	
20RG-03B	BEARING, BOTTOM	1	2.60	
20RG-04	RETAINER, PACKING	2	.10	
20RG-07	PACKING SET WITH MALE ADAPTER	2	.60	
20RG-07-416	PACKING SET (LOW PRESSURE) WITH MALE ADAPTER	OPTION	.60	
20RG-08A	PACKOFF HOUSING, 2" NPT FEMALE	1	28.00	
20RG-45	DRIVE CAP ADAPTER	OPTION	8.00	
40PG-22	SEAT RING, PACKING	2	.40	
5JW-21	LANTERN RING	2	.50	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 8K (SPECIAL SWIVEL)



- 6,000 PSI Working Pressure
- For High Pressure grouting
- Compact design
- Sealed Radial Ball Bearings for smooth rotation
- Non Adjustable grease lubricated Chevron (V-Ring) packing
- 2" Watercourse
- Numerous applications in the directional drilling market

### TECHNICAL DATA

MODEL#	OVERALL LENGTH	WIDTH	WEIGHT LBS.	UPPER* CONN.	HOSE CONN.	LOWER* CONN.	WATER COURSE	WORKING PRESSURE
8K	24 1/4"	8"		2 7/8" IF	2"	2 7/8" IF	2"	6000 PSI

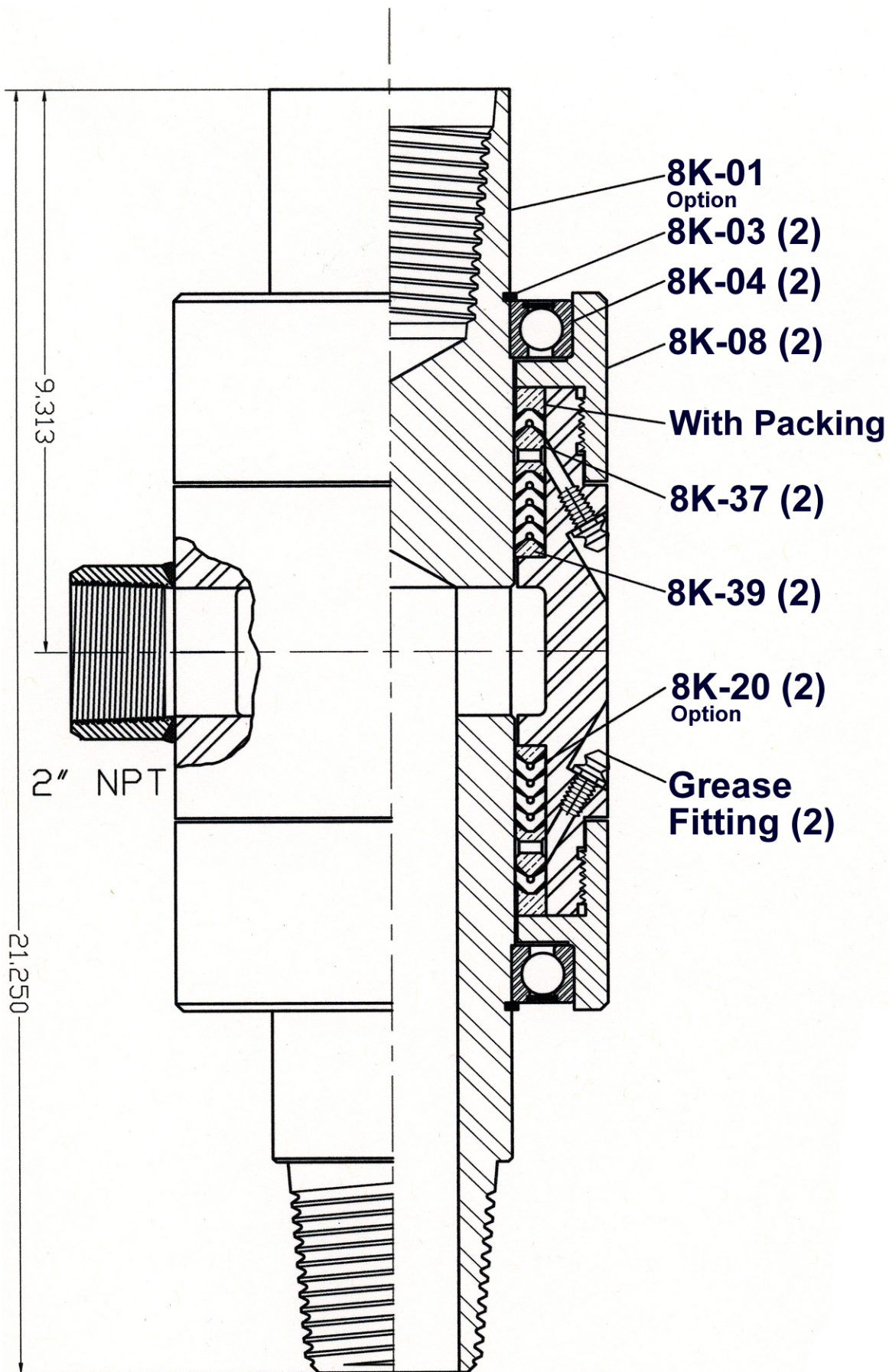
### PARTS LIST

PART NO.	DESCRIPTION	QTY. REQ.	
<b>8K-SPECIAL</b>	SPECIAL SIDE INLET SWIVEL, 8K W. P., 2 7/8" IF RH BOX UPPER CONNECTION, 2" FEMALE HOSE CONNECTION, WITH 2 7/8" IF RH PIN LOWER CONNECTION		
8K-01	SHAFT – 2 7/8" IF RH BOX BY PIN	1	
8K-02	PACKOFF BOX 2" NPT FEMALE HOSE CONNECTION	1	
8K-03	BEARING RETAINER	2	
8K-04	BEARING	2	
8K-08	BEARING HOUSING	2	
8K-08A	SET SCREW, BEARING HOUSING	2	
8K-20	PACKING SET WITH MALE ADAPTER (LOWER PRESSURE)	OPTION	
8K-20HP	PACKING SET (HIGH PRESSURE) WITH MALE ADAPTER	2	
8K-37	LANTERN RING	2	
8K-39	PACKING SEAT RING	2	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



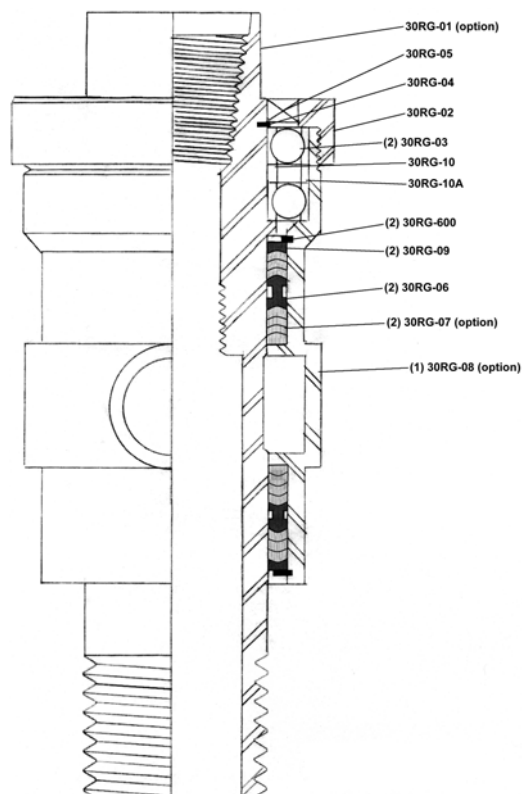


# SIDE INLET SWIVEL

30RG

SPECIAL SWIVEL

Obsolete – Parts Only



- Can be used to increase fluid passage, maximum of 2-1/2" ID
- Models for both WATER WELL and MINERAL EXPLORATION drilling
- Can be used for both air and mud rotary drilling
- Sealed radial ball bearings for smooth rotation
- Non adjustable Chevron (V-ring) packing, grease lubricated
- Compact design
- Can be easily repaired in the field if necessary
- Available with numerous thread forms and sizes

## TECHNICAL DATA

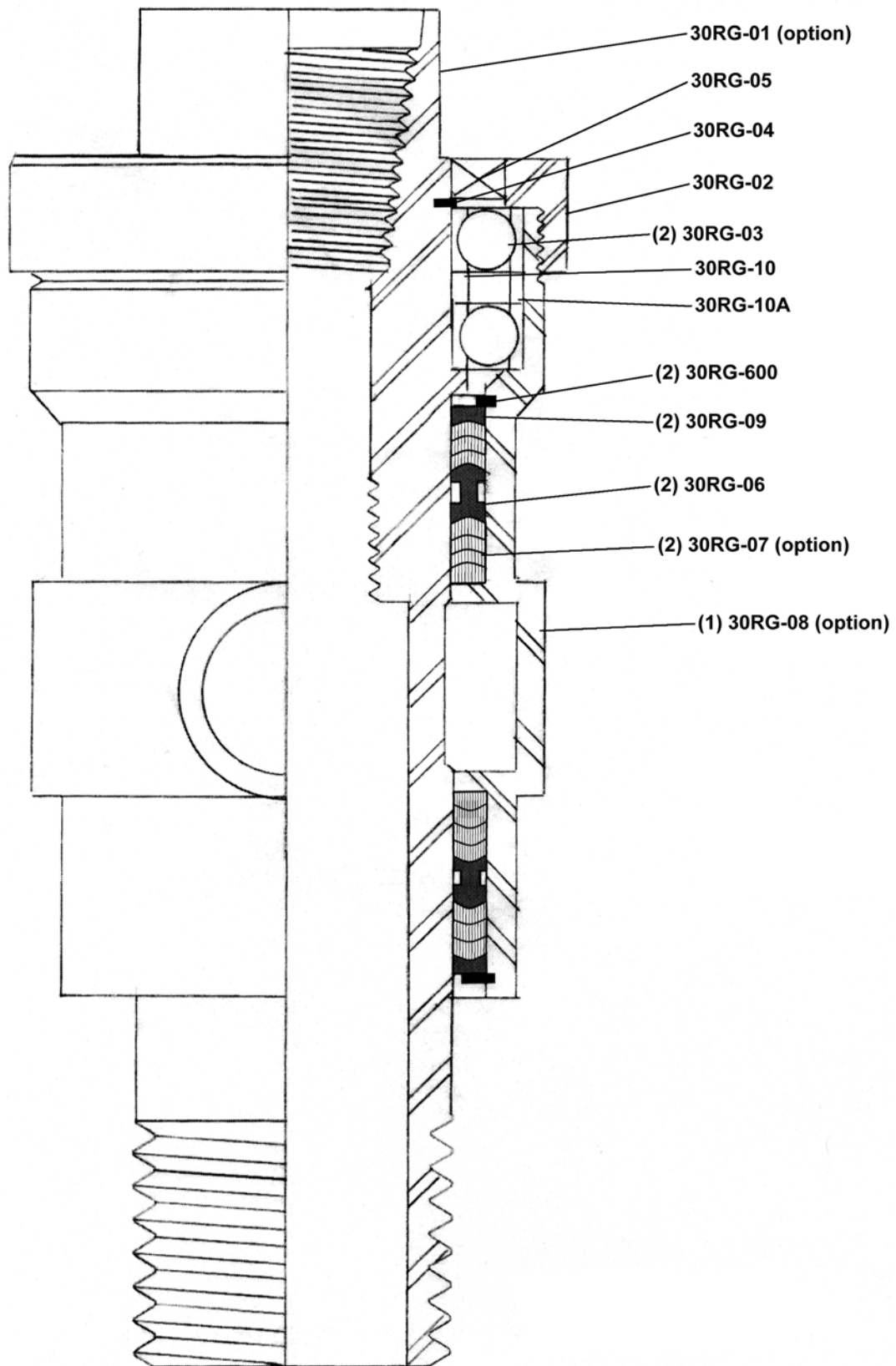
OVERALL LENGTH	WIDTH	TOP* CONN.	HOSE CONN.	LOWER* CONN	WATERCOURSE	WT/LB
21"	8"	3-1/2" REG BOX	2-1/2"	3-1/2" IF PIN	2-1/2"	150
21"	8"	3-1/2" REG BOX	2-1/2"	3-1/2" REG PIN	1-1/2"	150

## PARTS LIST

PART NUMBER	NAME	NUMBER REQ	WT/LBS EACH	RECOMMENDED SPARES FOR (1) YEAR	
<b>30RG-4040-XX</b>	WESTERN SIDE INLET	<b>NOT AVAILABLE</b>			
30RG-01	SHAFT**	1	95.00	----	
30RG-02	BEARING CAP	1	12.00	----	
30RG-03	BEARINGS	2	3.50	2	
30RG-04	BEARING RETAINER	1	.10	1	
30RG-05	GREASE SEAL	1	.30	1	
30RG-06	LANTERN RING	2	.70	----	
30RG-07	PACKING SET WITH MALE ADAPTER	2	.70	2	
30RG-07-416	PACKING SET W/MALE ADAPTER (LOW PRESSURE)	OPTION	.70	----	
30RG-08A	PACK OFF HOUSING, 2 1/2" NPT FEMALE HOSE CONNECTION	1	40.00	----	
30RG-09	PACKING SEAT RING	2	.50	----	
30RG-10	BEARING SPACER, INNER	1	1.00	----	
30RG-10A	BEARING SPACER, OUTER	1	1.00		
30RG-600	PACKING RETAINER	2	.10	2	

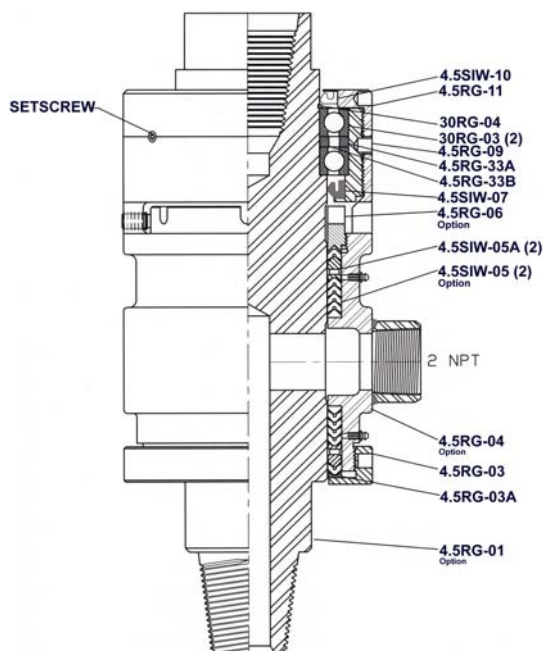
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 4.5RG Side Inlet Swivel



- For Mud and Air Rotary work
- Used for DUAL TUBE drilling
- Compact design
- Sealed Bearing above packing assembly
- Alloy steel construction with hardened packing areas.
- Available with a large choice of thread sizes and forms
- Adjustable Chevron (V-Ring) packing, grease lubricated
- Can be repaired in the field when necessary.

### TECHNICAL DATA

OVERALL LENGTH	WIDTH CONN.	TOP* CONN.	HOSE CONN.	LOWER* CONN.	WATERCOURSE	WT/LB.
22-3/4"	9"	3-1/2" REG.BOX	2"	3-1/2" REG. PIN	1-1/2"	230
22-3/4"	9"	3-1/2" REG.BOX	2-1/2"	3-1/2" IF PIN	2-1/2"	230
19-3/4"	9"	3-1/2" IF BOX	2-1/2"	4-1/8" DI-31 BOX	2"	215

### PARTS LIST

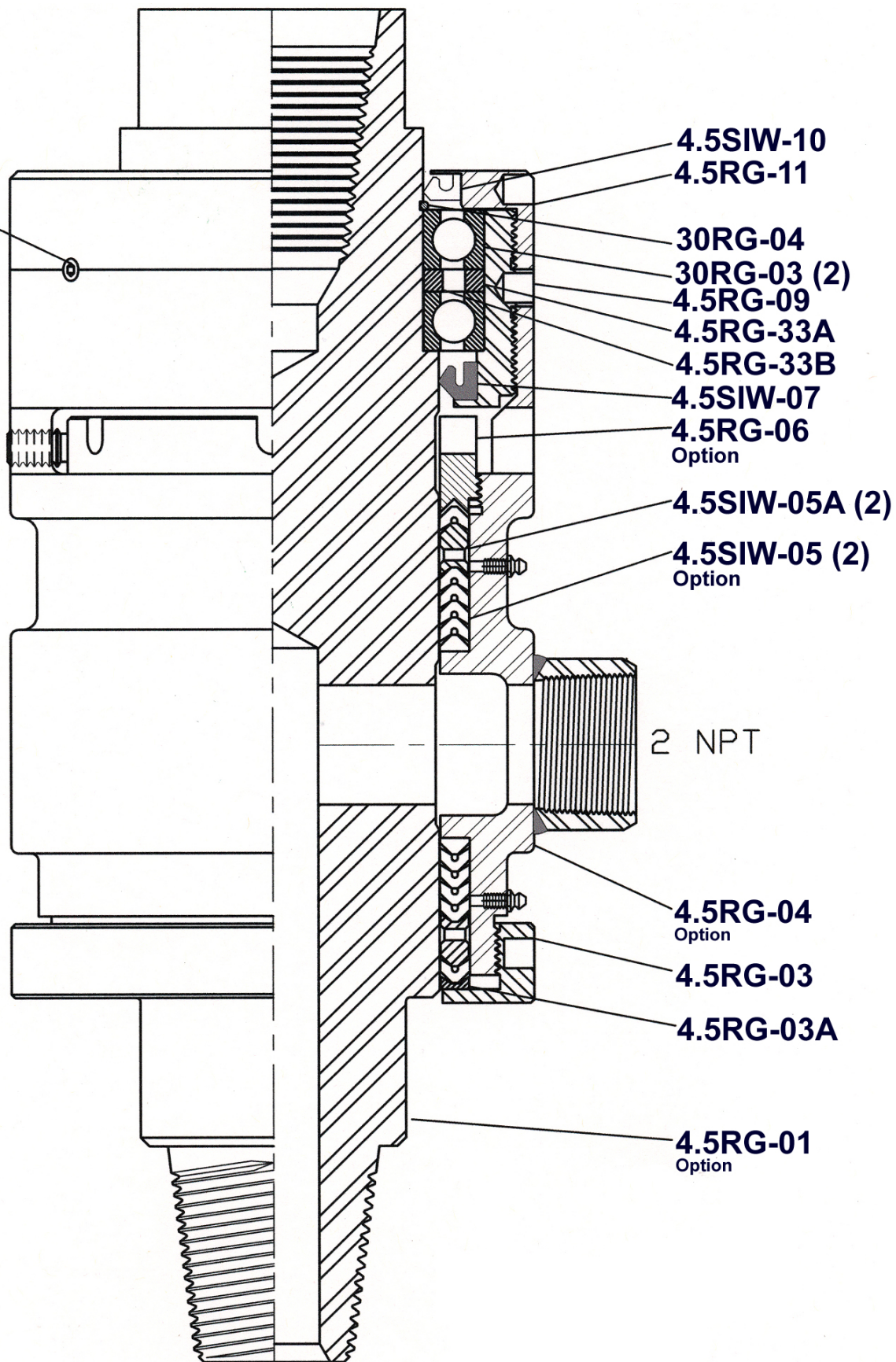
PART NUMBER	NAME	NUMBER REQ.	WT/LB EACH	SPARES ONE YEAR	
<b>4.5RG-4050-XX</b>	WESTERN SIDE INLET, 3 1/2" REG OR IF RH BOX UPPER CONNECTION, 2 OR 2 1/2 NPT FEMALE HOSE CONNECTION WITH 3 1/2" REG OR 3 1/2" IF RH PIN LOWER CONNECTION				
	ADD FOR 4 1/8" DI-31 RH BOX OR SPECIAL STEM				
4.5RG-01A	STEM, 3-1/2" REG BOX BY 3-1/2" IF PIN	OPTION	110.00		
4.5RG-01B	STEM, 3-1/2" REG BOX BY 3-1/2" REG PIN	OPTION	105.00		
4.5RG-01C	STEM, 3 1/2" IF RH BOX BY 4 1/8" DI-31 RH BOX	OPTION	105.00		
4.5RG-03	LOWER ADJUSTING GLAND	1	4.00		
4.5RG-03A	LOWER SEAT RING	1	.75	2	
4.5RG-04A	PACKOFF HOUSING, 2" NPT FEMALE	1	45.00		
4.5SIW-05	PACKING SET	2	.75	8	
4.5SIW-05-LOW	PACKING SET (10 to 125 PSI)	OPTION	.75		
4.5SIW-05-417	PACKING SET (HIGH PRESSURE)	OPTION	.75		
4.5SIW-05A	LANTERN RING	2	.75	2	
4.5RG-06	UPPER ADJUSTING NUT	1	4.00		
4.5SIW-07	LOWER HOUSING SEAL	1	.50	2	
4.5RG-09	BEARING HOUSING	1	20.00		
4.5SIW-10	UPPER HOUSING SEAL	1	.50	2	
4.5RG-11	CAP, BEARING HOUSING	1	5.00		
30RG-04	RETAINER, BEARING	1	.10	1	
30RG-03	BEARINGS	2	8.00	2	
4.5RG-33	SPACER, BEARINGS, INNER	1	1.00		
4.5RG-33A	SPACER, BEARING, OUTER	1	1.00		

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



**SETSCREW**



## 4.5PE Side Inlet Swivel



- Fluid Passage
- Replaceable Wearsleeves
- Superior Shaft Alignment
- Sealed Bearing Cases
- Working Pressures to 1500 PSI with optional packing.
- Simple Bolt Together Design

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	UPPER CONN.	LOWER CONN.	WATERCOURSE	WORKING PRESSURE
19 1/4 Shoulder	9	215	2 1/2	3 1/2 Reg Box	3 1/2 IF Pin	2 1/2	To 1500 PSI

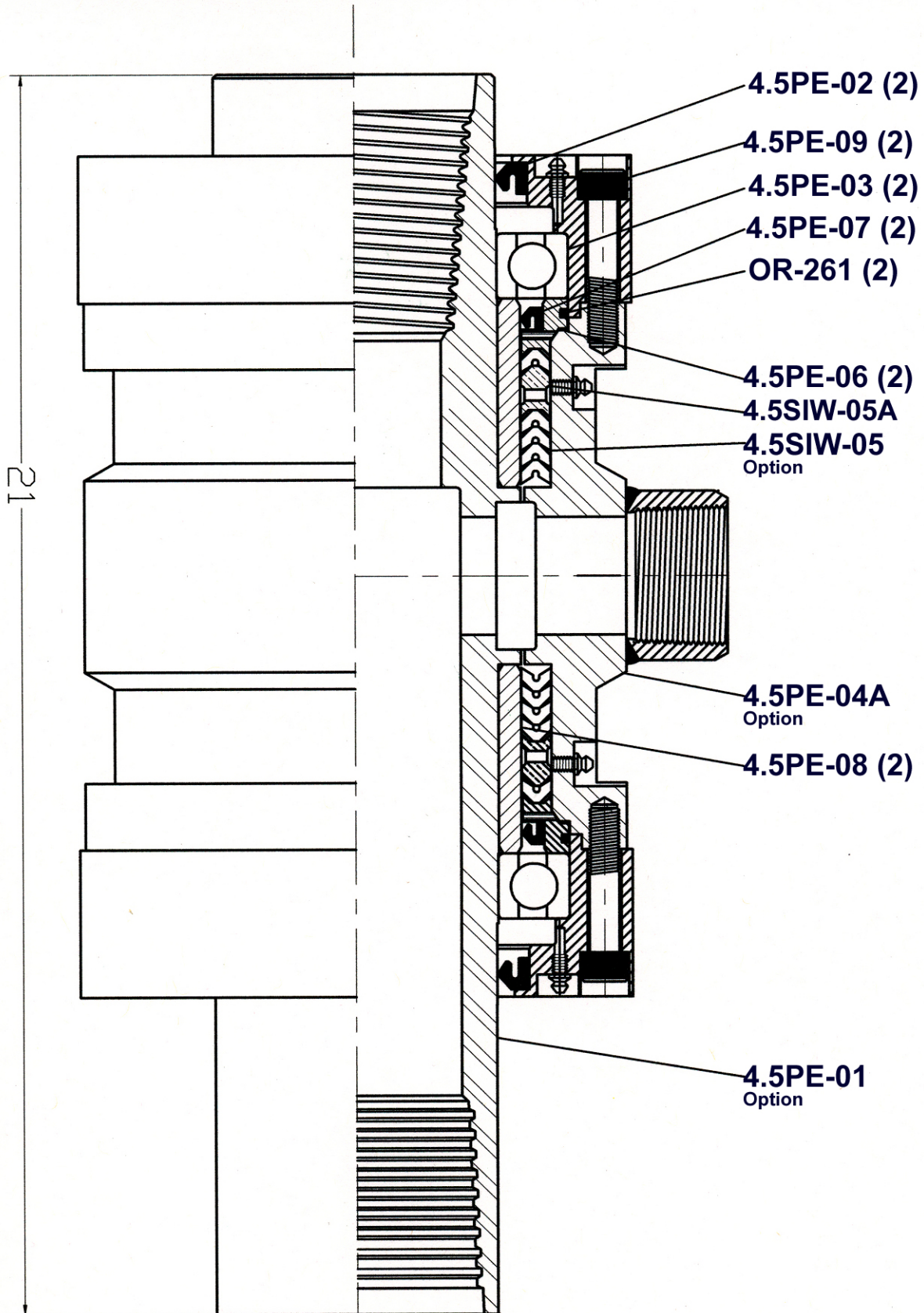
### PARTS LIST

PART NUMBER	NAME	NUMBER REQ.	
<b>4.5PE-4700-XX</b>	SIDE INLET SWIVEL, 3 1/2" REG. RH BOX UPPER CONNECTION, 2 1/2" NPT FEMALE HOSE CONNECTION, WITH 3 1/2" IF RH PIN LOWER CONNECTION		
	ADD FOR SPECIAL STEM OR 4 1/8" DI-31 RH BOX		
4.5PE-01A**	STEM, 3 1/2" REG RH BOX BY 3 1/2" IF RH PIN	1	
4.5PE-01F**	STEM, 3 1/2" IF RH BOX BY 4 1/8" DI-31 RH BOX	OPTION	
4.5PE-02	OUTER SEAL	2	
4.5PE-03	BEARING	2	
4.5PE-04A	PACKOFF BOX, 2 1/2" NPT FEMALE HOSE CONNECTION	OPTION	
4.5PE-06	TOP GLAND	2	
4.5PE-07	INNER HOUSING SEAL	2	
4.5PE-08	WEAR SLEEVE	2	
4.5PE-09	BEARING HOUSING	2	
4.5SIW-05	PACKING SET	2	
4.5SIW-05-LOW	PACKING SET (10 TO 125 PSI)	OPTION	
4.5SIW-05-417	PACKING SET, HIGH PRESURE	OPTION	
4.5SIW-05A	LANTERN RING	2	
OR-261	O-RING (TOP GLAND)	2	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.

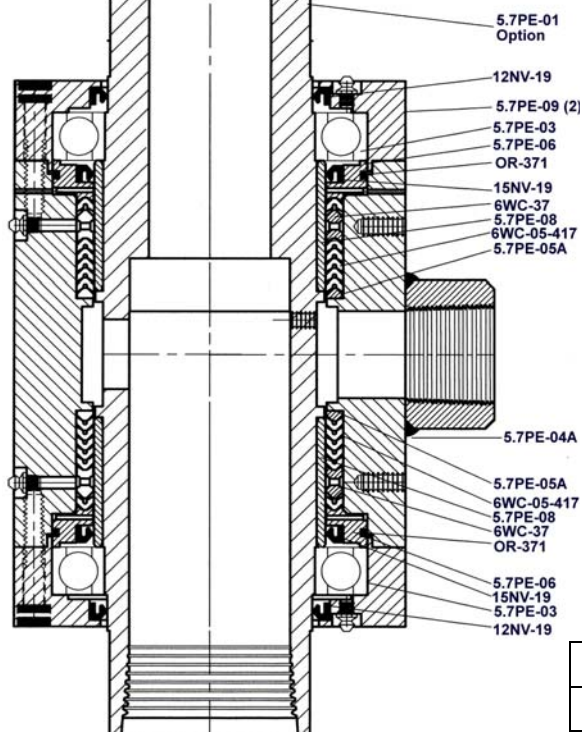




**COMING SOON:**

**5.0PE**

## Side Inlet Special Swivel 5.7PE



- Alloy Steel Construction
- Simple Bolt Together Design
- Angular Contact Ball Bearings on Each End for Maximum Shaft Alignment
- Grease Lubricated Packing & Bearing
- Replaceable Packing Wear Sleeves
- Simple Field Maintenance
- For Conventional and Dual Tube Drilling

### TECHNICAL DATA

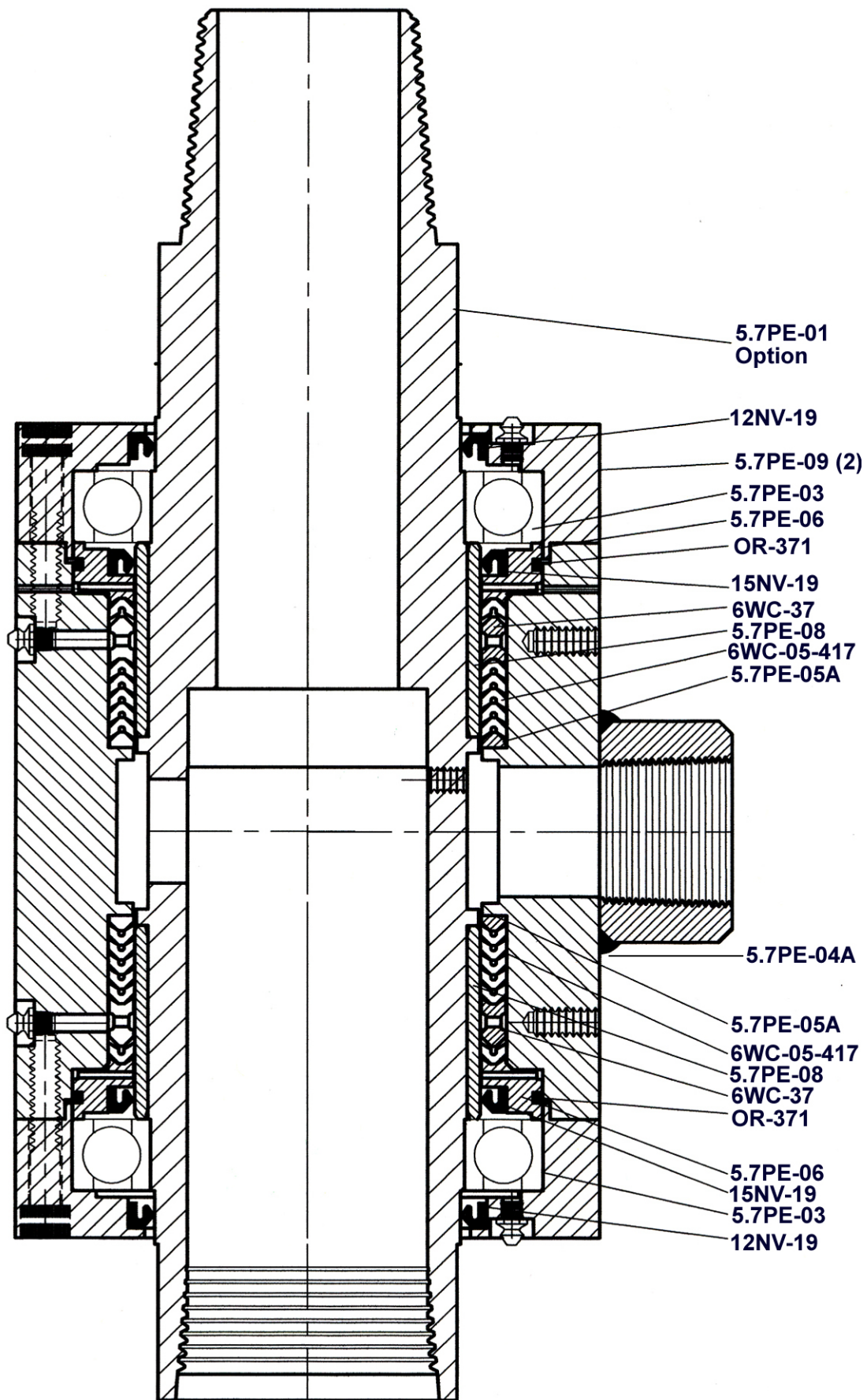
LENGTH	WIDTH	WEIGHT	HOSE CONN.	UPPER CONN.	LOWER CONN.	WATERCOURSE	WORKING PRESSURE
26 3/4"	11"		TO 3" NPT	4" IF	OPTION	TO 3 1/2"	TO 1500 PSI

### PARTS LIST

PART NUMBER	DESCRIPTION	NUMBER REQ.	
<b>5.7PE-4900-01</b>	SIDE INLET, 4" IF RH PIN UPPER CONNECTION, 2 1/2" NPT FEMALE HOSE CONNECTION WITH 5 1/2" CSR RH BOX LOWER CONNECTION, LESS AIR NEEDLE		
	ADD FOR "SPECIAL STEM"		
12NV-19	LOWER OIL SEALS	2	
15NV-19	LOWER HOUSING SEALS	2	
5.7PE-011E-X**	STEM 4" IF RH PIN X 5 1/2" CSR RH BOX	OPTION	
5.7PE-03	BEARINGS	2	
5.7PE-04A	PACKOFF HOUSING, 2 1/2" NPT FEMALE	1	
5.7PE-05A	BOTTOM PACKING GLAND	2	
5.7PE-06	TOP PACKING GLAND	2	
5.7PE-08	WEAR SLEEVE	2	
5.7PE-09	BEARING HOUSING	2	
6WC-05-417	PACKING SET, 417 HIGH PRESSURE	2	
6WC-37	LANTERN RING	2	
OR-371	O-RING	2	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







## 8.0PE SIDE INLET “SPECIAL SWIVEL”

- 6" Fluid passage
- Can be used for internal and external air lines
- For air-lift drilling but adaptable for all forms of drilling
- Large capacity tapered roller bearings for stem stability
- Grease lubricated packing and bearings
- Sealed bearing case

### TECHNICAL DATA

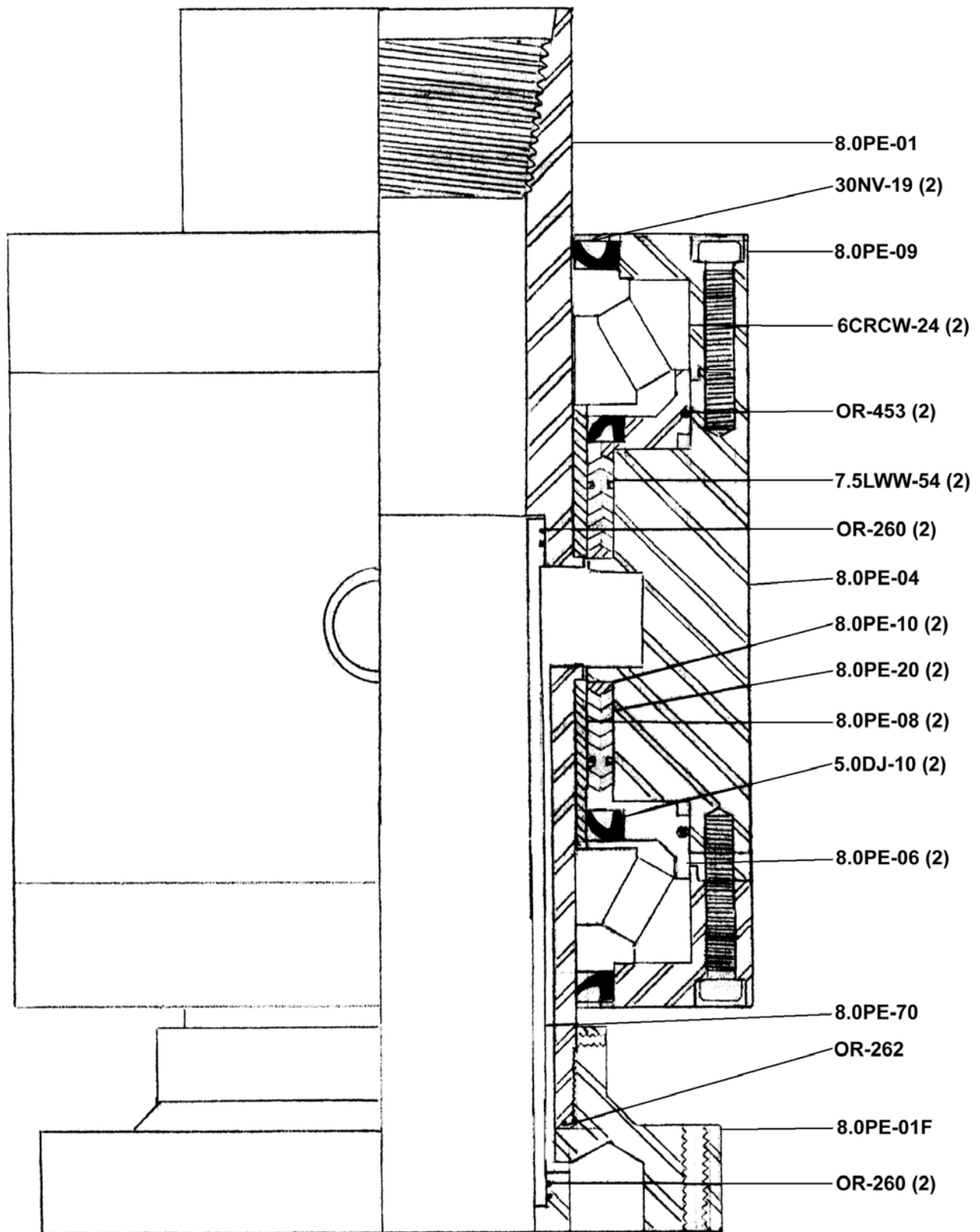
LENGTH	WIDTH	WEIGHT	UPPER CONN.	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
28"	14 1/2"		OPTION	TO 6"	OPTION	MAX 6"	TO 1000 PSI

### PARTS LIST

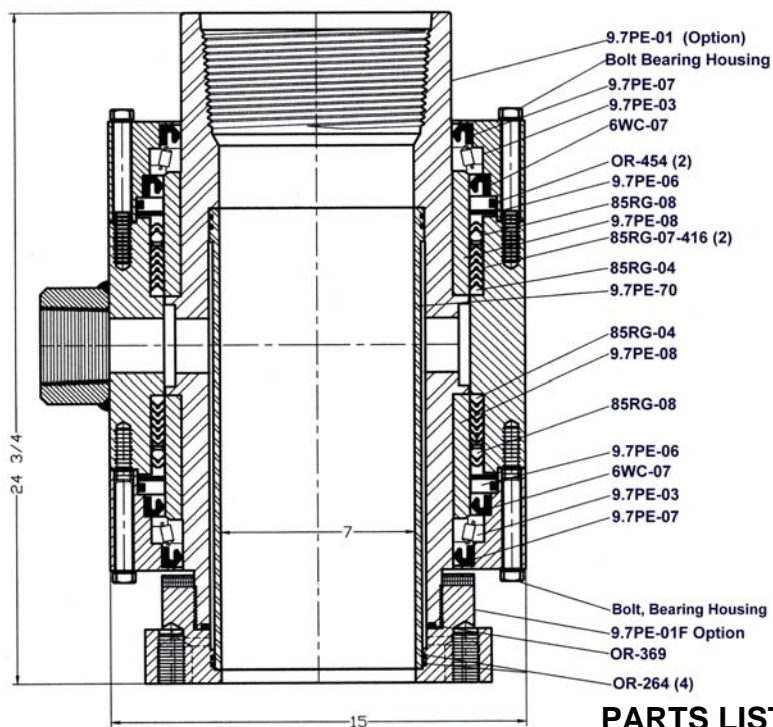
PART NUMBER	DESCRIPTION	NUMBER REQ.	
<b>8.0PE-4075-XX</b>	WESTERN SIDE INLET, 6" ID FLUID PASSAGE, TO 8" OD "CUSTOMER" SPECIFIED UPPER CONNECTION, 2" NPT FEMALE HOSE CONNECTION, WITH "CUSTOMER" SPECIFIED FLANGED LOWER CONNECTION		
8.0PE-01	STEM, 6WC LH BOX BY SPECIAL PIN	1	
8.0PE-01F-X	LOWER FLANGE	1	
8.0PE-04	PACKOFF HOUSING	1	
8.0PE-06	PACKING GLAND	2	
8.0PE-08	WEAR SLEEVE	2	
8.0PE-09	BEARING HOUSING	2	
8.0PE-10	PACKING SEAT RING	2	
8.0PE-20	PACKING SET	2	
8.0PE-70	INNERTUBE	1	
6CRCW-24	BEARINGS (CUP AND CONE)	2	
30NV-19	SEAL	2	
7.5LWW-54	LANTERN RING	2	
5.0DJ-10	SEAL	2	
OR-453	O RING	2	
OR-260	O RING	4	
OR-262	O RING	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



# Side Inlet Special Swivel 9.7PE



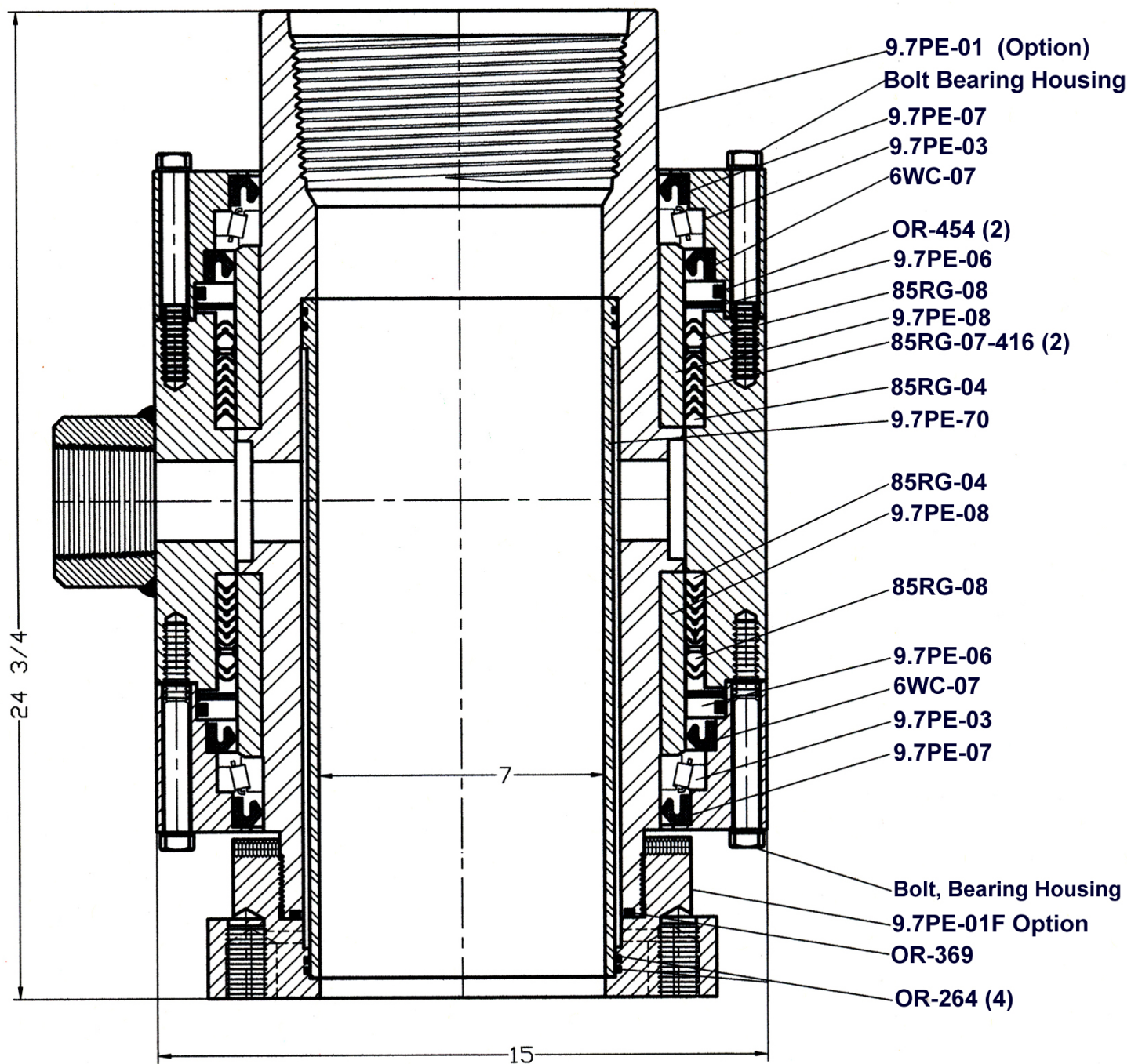
- Alloy Steel Construction
- Simple Bolt Together Design
- Large Capacity Tapered Roller Bearings
- Bearing On Each End for Maximum Shaft Alignment
- Grease Lubricated Packing & Bearing
- Replaceable Packing Wear Sleeves
- Simple Field Maintenance

## PARTS LIST

PART NUMBER	NAME	NUMBER REQ.	
<b>9.7PE-4810-01</b>	SPECIAL SIDE INLET 7-6WC LEFT HAND BOX UPPER CONN. 3" NPT FEMALE HOSE CONNECTION WITH 12 1/2" OD FLANGE LOWER CONNECTION WITH (2) EXT. AIR LINE PASSAGES		
6WC-07	HOUSING SEALS	2	
85RG-04	LOWER SEAT RING	2	
85RG-06	LANTERN RING	2	
85RG-07-416	PACKING SET	2	
9.7PE-01	STEM 7" MOD LH BOX BY SPECIAL PIN, LESS FLANGE	1	
9.7PE-01F	LOWER FLANGE	1	
9.7PE-03	BEARINGS	2	
9.7PE-04	PACKOFF HOUSING	1	
9.7PE-06	PACKING GLAND	2	
9.7PE-07	HOUSING SEALS	2	
9.7PE-08	WEAR SLEEVE	2	
9.7PE-09	BEARING HOUSING	2	
9.7PE-70	INNERTUBE	1	
OR-264	O RING	4	
OR-369	O RING	1	
OR-454	O RING	2	

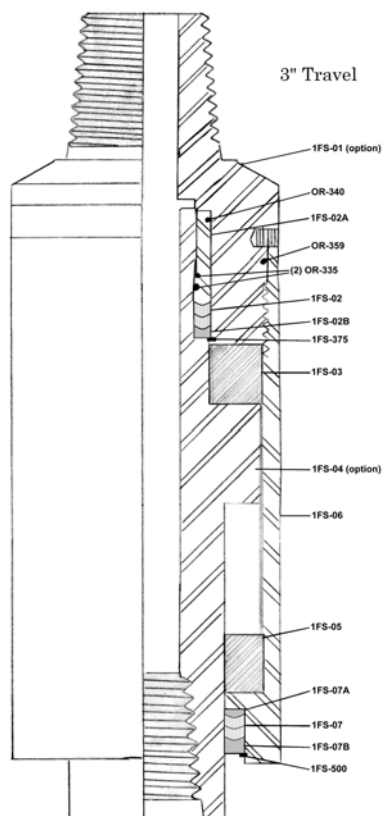
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# 1FS “SPECIAL” FLOATING SUB



- 3" of travel
- Fluid Passage – 1 3/4" Maximum
- Grease Lubricated
- Torques to 10,000 ft lbs
- Hoisting loads to 50,000 lbs
- Can be repaired in field

## TECHNICAL DATA

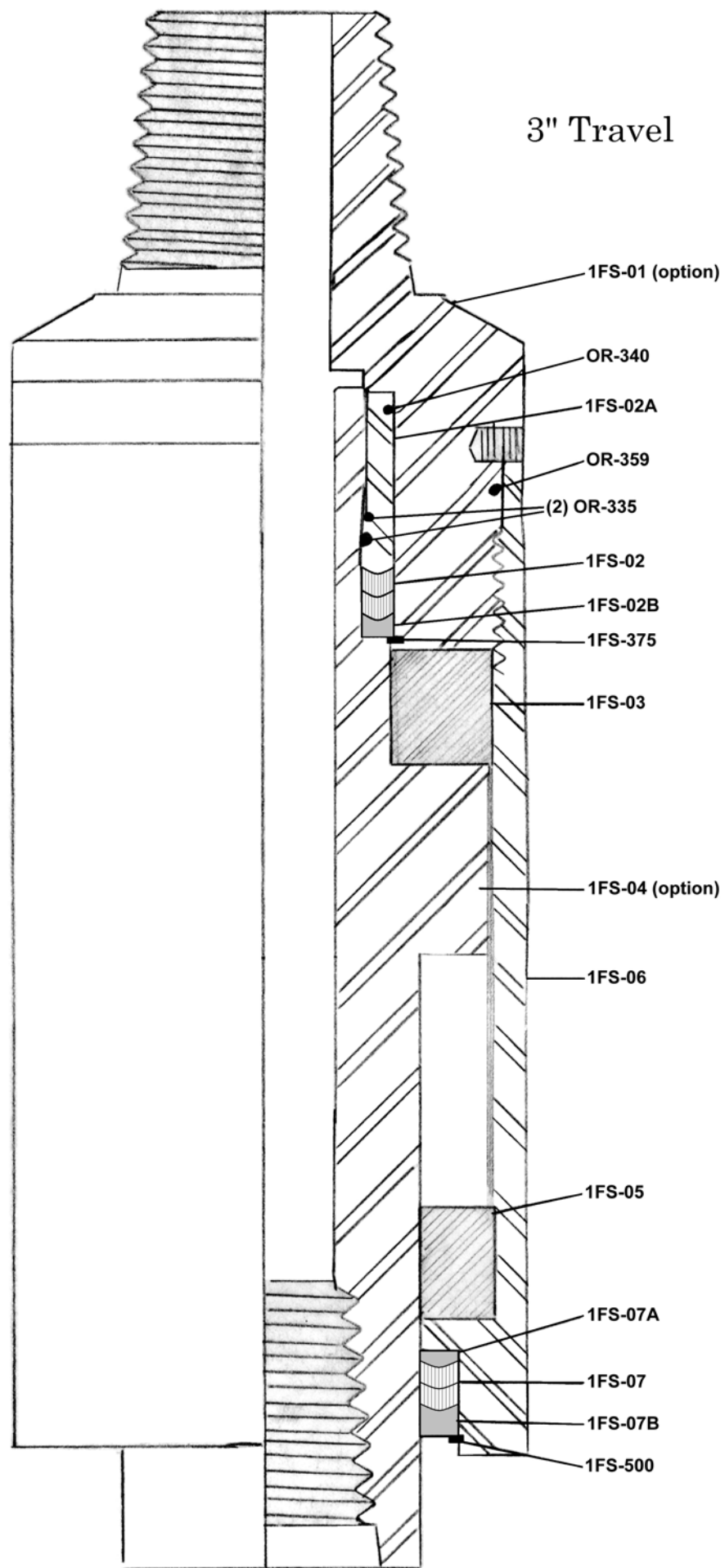
OPEN LENGTH	CLOSED	OD	WEIGHT	FLUID PASSAGE
23 7/8	20 7/8	7	170	1 3/4

## PARTS LIST

PART NUMBER	NAME	WT/LBS	NUMBER REQ.	PRICE
<b>1FS-1300-XX</b>	FLOATING SUB, 3 1/2" REG RH PIN UPPER CONNECTION WITH 2 7/8" IF RH BOX LOWER CONNECTION			CONSULT
OR-359	O RING BEARING HOUSING		1	
1FS-01A	HOUSING ADAPTER 3 1/2" REG RH PIN		1	<b>C</b>
1FS-02	UPPER PACKING SET		1	
1FS-02A	UPPER SEAT RING (MALE)		1	<b>O</b>
1FS-02B	UPPER SEAT RING (FEMALE)		1	
1FS-03	UPPER CUSHION		1	<b>N</b>
1FS-04A	SPINDLE 2 7/8" IF		1	
1FS-05	LOWER CUSHION		1	<b>S</b>
1FS-06	HOUSING (MAIN BODY)		1	
1FS-07	PACKING SET, LOWER		1	<b>U</b>
1FS-07A	LOWER SEAT RING (MALE)		1	
1FS-07B	LOWER SEAT RING (FEMALE)		1	<b>L</b>
OR-340	O RING UPPER SEAT		1	
1FS-375	UPPER PACKING RETAINER		1	<b>T</b>
1FS-500	LOWER PACKING RETAINER		1	
OR-335	O RING (WASHPIPE)		2	

Other sizes of connections available, please consult factory.

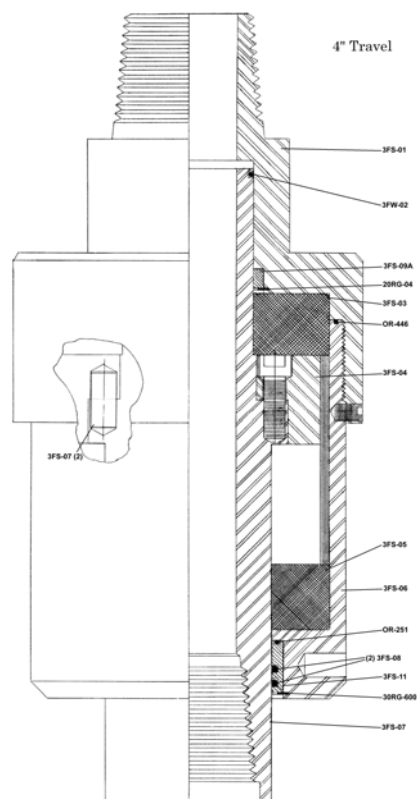
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 3FS

# "SPECIAL" FLOATING SUB



- 4" of travel
- Fluid Passage – 2 ½" Maximum
- Grease Lubricated
- Torques to 12,000 ft lbs
- Hoisting loads to 100,000 lbs
- Can be repaired in the field

### TECHNICAL DATA

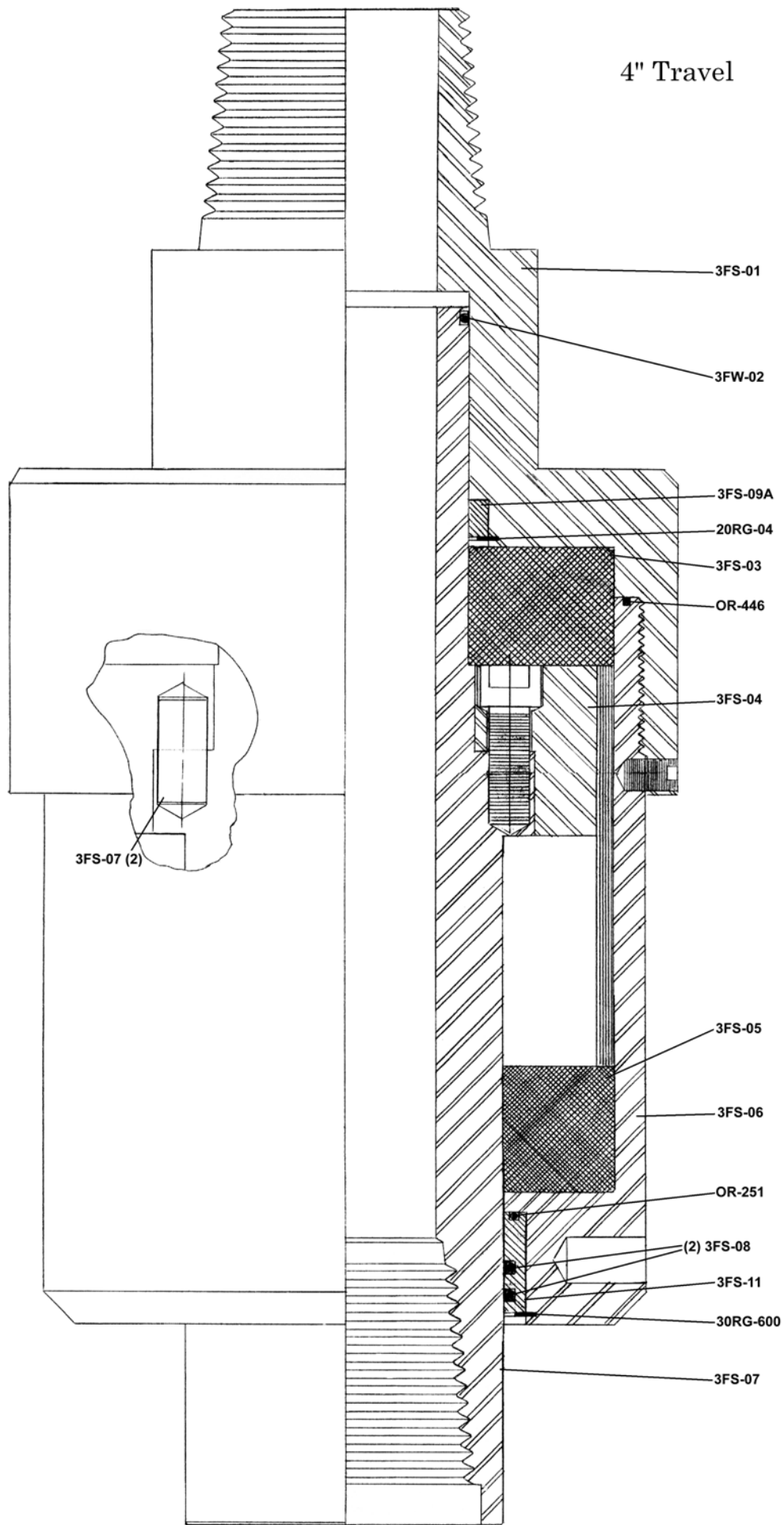
OPEN LENGTH	CLOSED	OD	FLUID PASSAGE
29	25	11" Max	2 ½

### PARTS LIST ONLY

PART NUMBER	NAME	WT/LBS	NUMBER REQ.	PRICE
<b>3FS-1500-XX</b>	FLOATING SUB, 4" FULL HOLE RH PIN UPPER CONNECTION WITH 3 ½" IF RH BOX LOWER CONNECTION			CONSULT
20RG-04	PACKING RETAINER		1	<b>C</b>
30RG-600	PACKING RETAINER		1	
3FS-01	HOUSING, ADAPTER, 4" FH RH PIN		1	
3FS-02	UPPER SEAL		1	
3FS-03	UPPER CUSHION		1	<b>O</b>
3FS-04	SLIDE DRIVE		1	
3FS-05	LOWER CUSHION		1	<b>N</b>
3FS-06	HOUSING DRIVE		1	
3FS-07	SPINDLE 3 ½" IF RH BOX		1	<b>S</b>
3FS-08	LOWER SEAL		2	
3FS-09	TORQUE PINS		4	<b>U</b>
3FS-09A	UPPER WEAR SLEEVE		1	
3FS-11	LOWER WEAR SLEEVE		1	<b>L</b>
OR-251	O RING (LOWER SLEEVE)		1	
OR-446	O RING (UPPER HOUSING)		1	<b>T</b>

Other sizes of connections available, please consult factory.

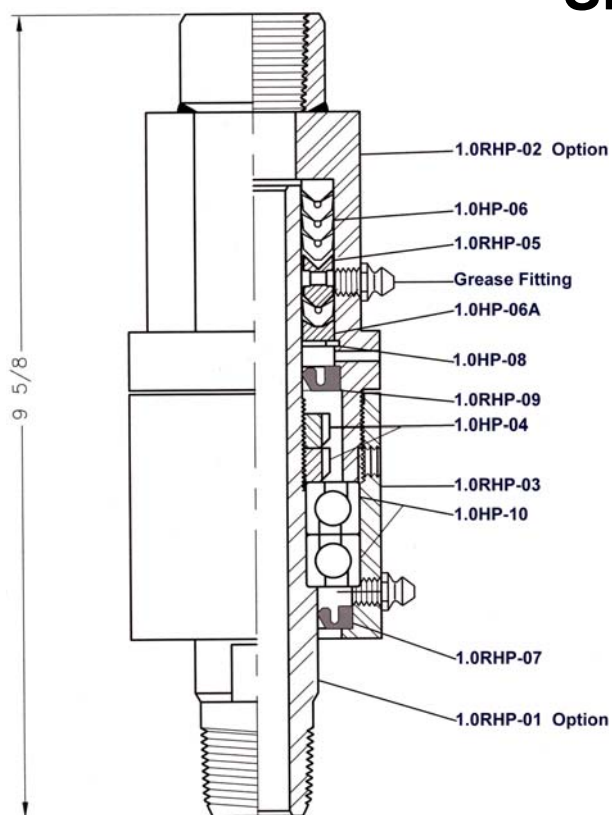
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



**COMING SOON:**

**1.0CS**

# 1.0RHP “SPECIAL SWIVEL”



- Fluid Passage –  $\frac{3}{4}$ "
- Compact Design
- Chevron (V-Ring) Packing – Grease Lubrication
- Thrust ball bearings for pressure and radial load support
- Choice of hose and lower connection thread
- Designed for easy field maintenance and repairs
- Working pressure to 2500 PSI

## TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	WATERCOURSE	WORKING PRESSURE
10	3	9 $\frac{1}{4}$ "	1"	1"	$\frac{3}{4}$ "	To 2500 PSI

## WEIGHT CAPACITY

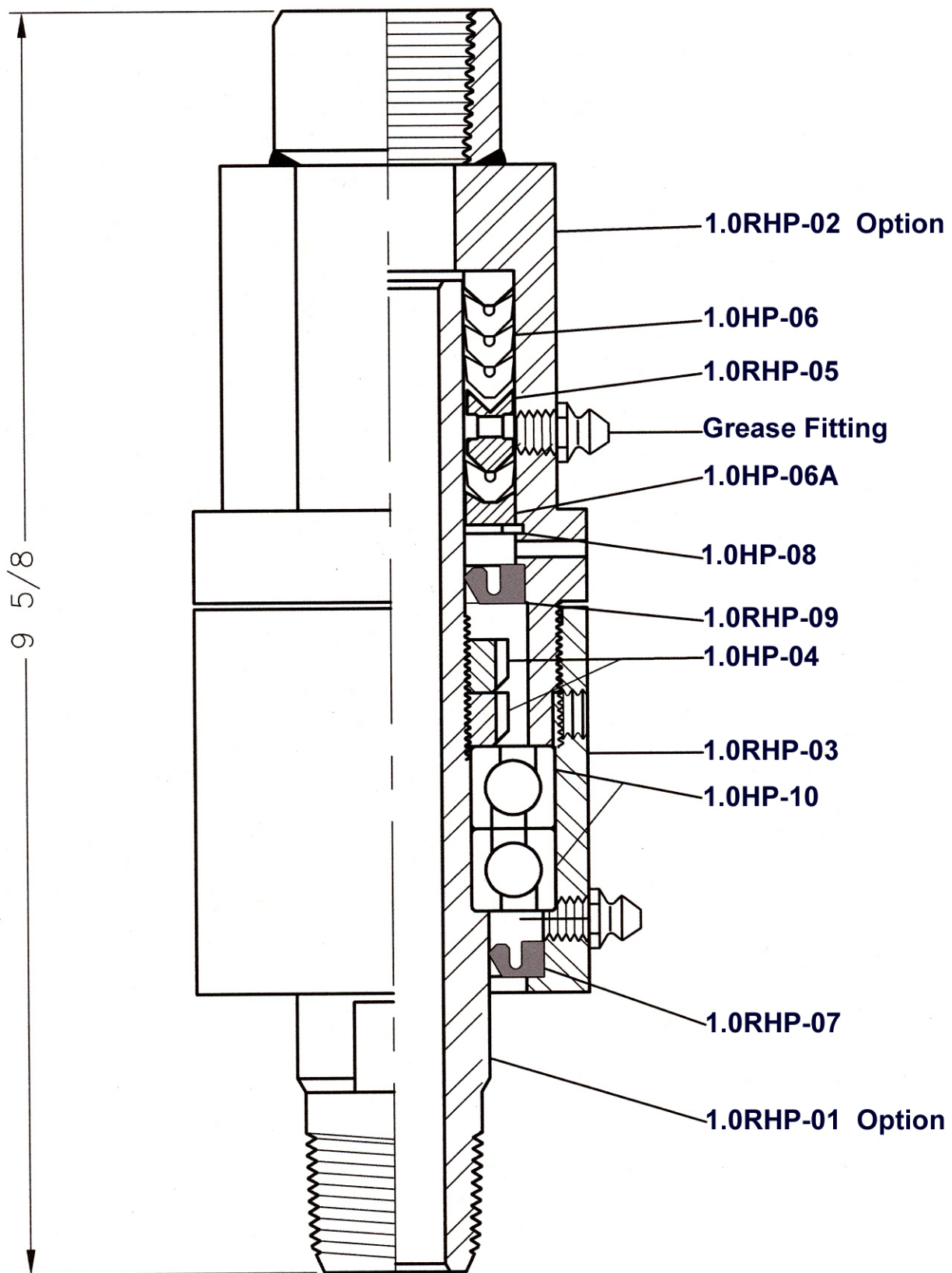
DESIGNED FOR PRESSURE LOAD ONLY

## PARTS LIST

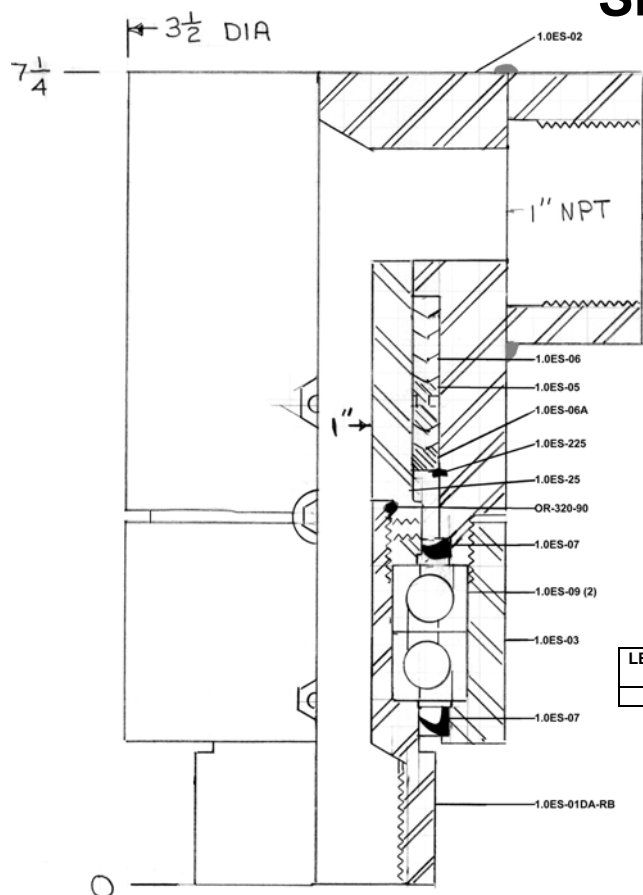
PART NUMBER	NAME	NUMBER REQ.	
<b>1.0RHP-9300-XX</b>	WESTERN HIGH PRESSURE SWIVEL, 1" NPT FEMALE HOSE CONNECTION STRIAHT UP WITH 1" NPT LH PIN LOWER CONNECTION STRAIGHT		
	ADD FOR SIDE WITH STRAIGHT UP HOSE CONNECTION		
	ADD FOR "SPECIAL SHAFT"		
1.0HP-04	BEARING LOCKNUT	2	
1.0HP-06	PACKING SET	1	
1.0HP-06A	PACKING SEAT RING	1	
1.0HP-08	PACKING RETAINER	1	
1.0HP-10	BEARING	2	
1.0RHP-01BA-LP	SPINDLE, 1" NPT LEFT HAND PIN	1	
1.0RHP-01BA-RB	SPINDLE, 1" NPT RIGHT HAND BOX	Option	
1.0RHP-02A	GOOSENECK 1" NPT FEMALE STRAIGHT UP	1	
1.0RHP-02B	GOOSENECK $\frac{3}{4}$ " NPT FEMALE STRIAHT OUT	Option	
1.0RHP-03	BEARING HOUSING	1	
1.0RHP-05	LANTERN RING	1	
1.0RHP-07	LOWER SEAL	1	
1.0RHP-09	UPPER SEAL	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 1.0ES ROTATING HEAD “SPECIAL SWIVEL”



- Extra short – 7 ¼”
- 1” Fluid passage
- Chevron V-Ring packing
- Grease lubricated packing and bearing
- Sealed bearing case
- Can be serviced in the field

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
7 ¼”	3 ½”		1” NPT	1 ½” NPT	1”	1500 PSI

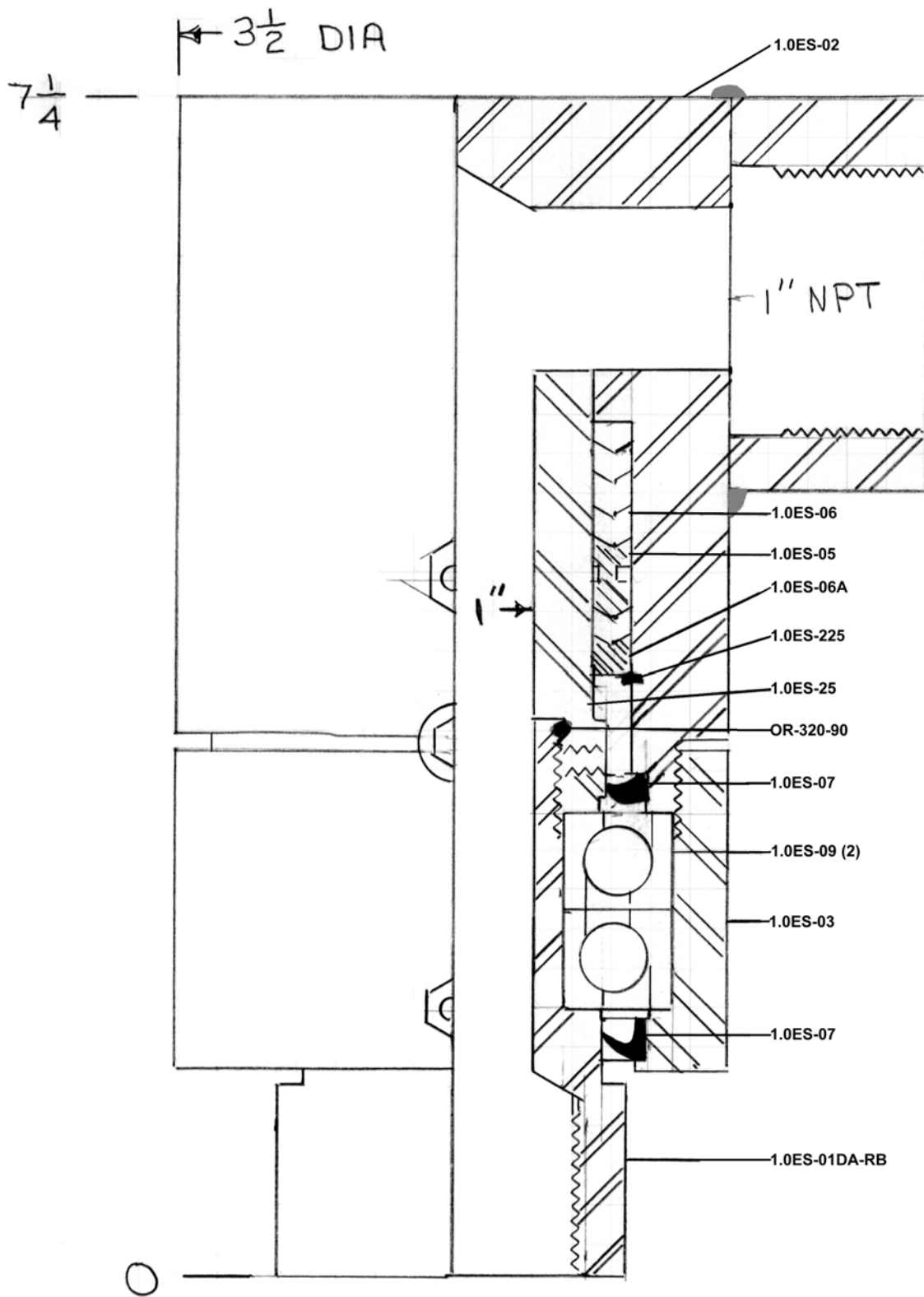
### WEIGHT CAPACITIES DESIGNED FOR PRESSURE LOAD ONLY

PART NUMBER	NAME	NUMBER REQ.	
<b>1.0ES-9100-01</b>	<b>WESTERN ROTATING HEAD, “HIGH PRESSURE”, 1” NPT FEMALE HOSE CONN. WTH 1 ½” NPT LH FEMALE LOWER CONNECTION</b>		
1.0ES-01DA-RB	SPINDLE, 1 ½” NPT RH FEMALE	1	
1.0ES-02	GOOSENECK, 1” NPT FEMALE	1	
1.0ES-03	BEARING HOUSING	1	
1.0ES-05	LANTERN RING	1	
1.0ES-06	PACKING WITH MALE ADAPTER	1	
1.0ES-06A	PACKING SEAT RING	1	
1.0ES-07	HOUSING SEALS	2	
1.0ES-09	BEARING	2	
1.0ES-225	RETAINER, PACKING	1	
1.0ES-25	WASHPIPE	1	
OR-320-90	RING, WASHPIPE	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# 1JW Swivel



- For all types of drilling requiring a small light weight swivel
- Alloy steel BAIL, SPINDLE, and LOWER CONNECTION
- High thrust ball bearings in a grease lubricated sealed housing
- Simple design allows quick packing replacement and easy field repairs.
- Available with several different hose connections.
- Special lower connections available upon request.

## TECHNICAL DATA

MODEL	LENGTH	WT/LB ALUM. IRON	HOSE CONN. NPT	LOWER CONN" LH OR RH NPT	WATER COURSE	WORKING PRESSURE
1JW	13"	10.0 15.0	1" FEMALE 1-1/4" MALE	1" OR 1-1/4"	1"	300 PSI

## CAPACITIES & SAFE DRILL DEPTHS

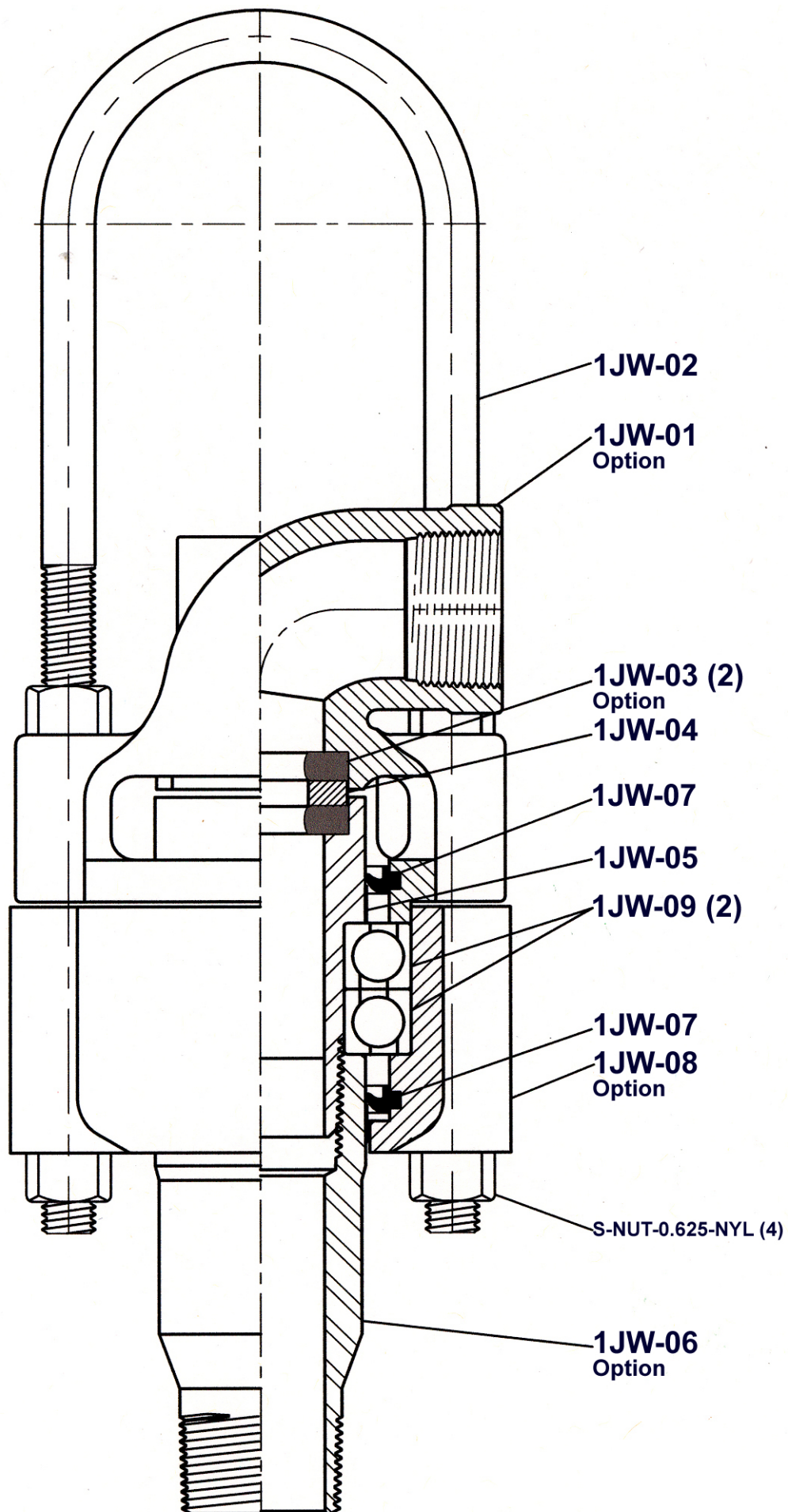
MODEL	STATIC LOAD	DRILL DEPTH	DRILL PIPE SIZE
1JW	5,000 LBS.	500 FT. @ 100 RPM	1-1/4" STANDARD PIPE

## PARTS LIST

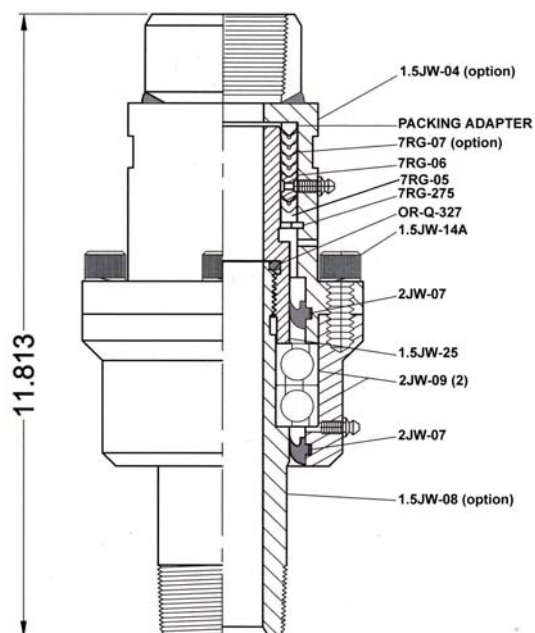
PART NUMBER	NAME	WT/LBS	QTY. REQ.	
<b>1JW-2010-XX</b>	SWIVEL, IRON OR ALUM., 1" FEMALE OR 1 1/4" MALE NPT HOSE CONNECTION WITH 1 1/4" NPT LEFT OR RIGHT HAND PIN LOWER CONNECTION			
	ADD FOR SPECIAL LOWER CONNECTION			
1JW-01B	IRON GOOSENECK, 1" FEMALE	4.12	Option	
1JW-01C	IRON GOOSENECK, 1 1/4" MALE	4.12	1	
1JW-01AB	ALUM. GOOSENECK, 1" FEMALE	1.56	Option	
1JW-01AC	ALUM. GOOSENECK, 1 1/4" MALE	1.56	Option	
1JW-02	BAIL WITH NUTS	1.62	1	
1JW-03	+ PACKING	.03	2	
1JW-03-90	PACKING, 90 DURO	.03	Option	
1JW-03V	PACKING, VITON	.03	Option	
1JW-04	+ WEARBUSHING	.18	1	
1JW-05	BEARING SPINDLE	1.12	1	
1JW-06BA-RP	LOWER CONNECTION, 1" NPT RH PIN	1.50	Option	
1JW-06BA-LP	LOWER CONNECTION, 1" NPT LH PIN	1.50	Option	
1JW-06CA-RP	LOWER CONNECTION, 1 1/4" NPT RH PIN	1.50	Option	
1JW-06CA-LP	LOWER CONNECTION, 1 1/4" NPT LH PIN	1.50	1	
1JW-06YA-RP	LOWER CONNECTION, A ROD RH PIN	3.00	Option	
1JW-07	+ HOUSING SEALS	.06	2	
1JW-07V	HOUSING SEALS VITON	.06	Option	
1JW-08A	ALUM., BEARING HOUSING	1.50	Option	
1JW-08	IRON, BEARING HOUSING	4.00	1	
1JW-09	+ BEARINGS	1.68	2	
1JW-40	MAINTENANCE KIT: (8) 1JW-03 (1) 1JW-04			
1JW-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 1.5 JW ROTATING HEAD



- Fluid Passage to 1 ½"
- Compact Design
- Thrust ball bearings for pressure and radial load support
- Choice of hose and lower connection threads
- Easy field maintenance and repair

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	WATERCOURSE	WORKING PRESSURE
12 ½"	5 3/16"	9 ¼"	2" NPT Male	2" NPT RHP	1 ½"	To 2500 PSI

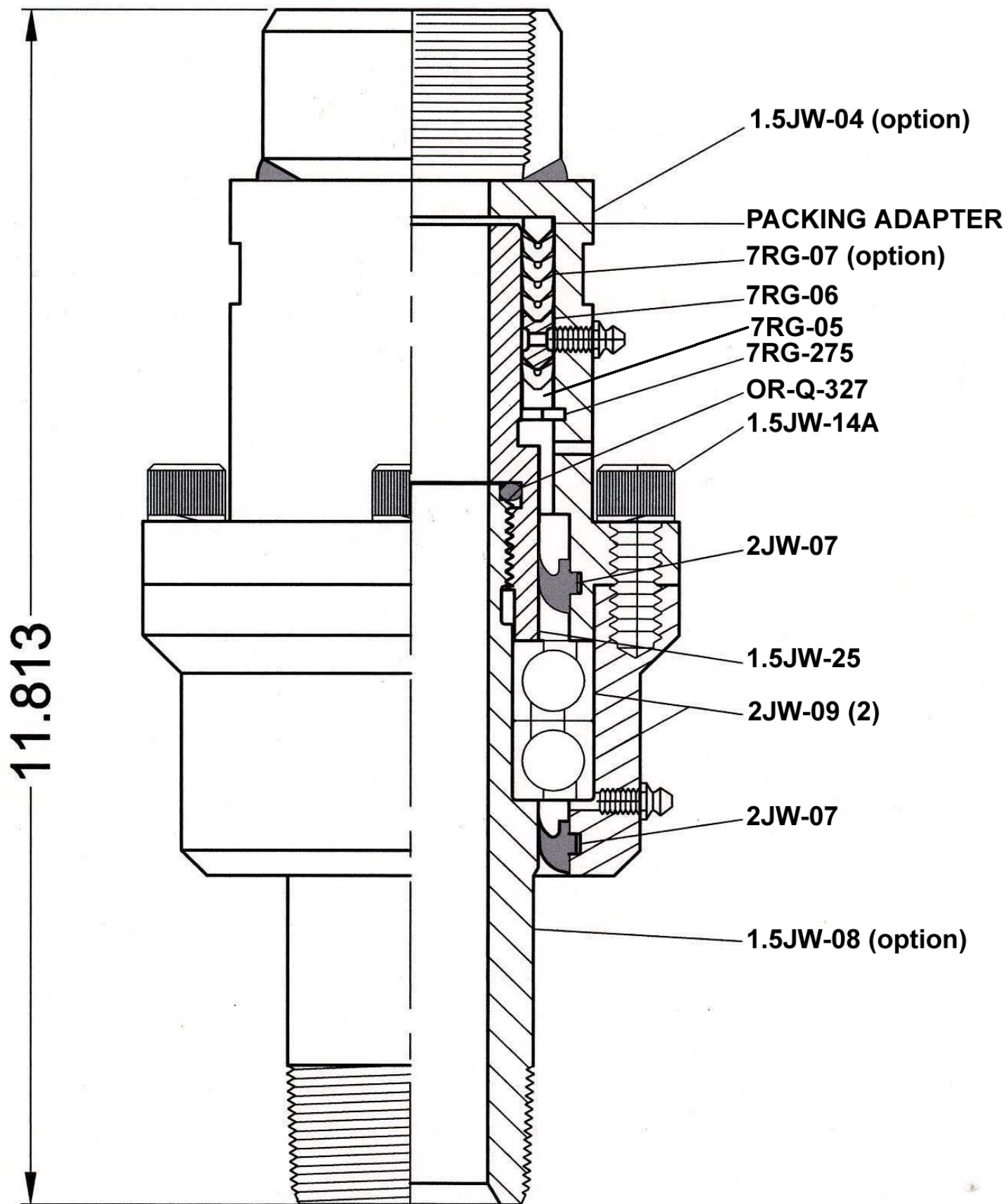
### WEIGHT CAPACITY DESIGNED FOR PRESSURE LOAD ONLY

### PARTS LIST

PART NUMBER	NAME	WT/LBS	NUMBER REQ.	
<b>1.5JW-2070-XX</b>	ROTATING HEAD, 2" NPT MALE HOSE CONNECTION WITH 2" NPT LH PIN LOWER CONNECTION			
	ADD FOR "SPECIAL STEM"			
1.5JW-04A	GOOSENECK, 2" NPT MALE HOSE CONNECTION		1	
1.5JW-08DA-RP	SPINDLE, 1 ½" NPT RH PIN		Option	
1.5JW-08EA-LP	SPINDLE, 2" NPT LH PIN		1	
1.5JW-14	BEARING HOUSING		1	
1.5JW-25	WASHPIPE		1	
OR-Q327	WASHPIPE QUAD RING		1	
2JW-07	HOUSING SEAL		2	
2JW-09	BEARINGS		2	
7RG-275	PACKING RETAINER		1	
7RG-05	PACKING SEAT RING		1	
7RG-06	LANTERN RING		1	
7RG-07	PACKING SET W/ADAPTER		1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







## 2JW Swivel

- For all types of drilling requiring a small light weight swivel
- Alloy steel BAIL, SPINDLE, and LOWER CONNECTION
- High thrust ball bearings in a grease lubricated sealed housing
- Simple design allows quick packing replacement and easy field repairs.
- Available with several different hose connections.
- Special lower connections available upon request.

### TECHNICAL DATA

MODEL	LENGTH	WT/LB ALUM. IRON	HOSE CONN. NPT	LOWER CONN* LH OR RH NPT	WATER COURSE	WORKING PRESSURE
2JW	16"	14.0 21.0	1-1/2" FEMALE 2" MALE	1-1/2" OR 2"	1-1/2"	300 PSI

### CAPACITIES & SAFE DRILL DEPTHS

MODEL	STATIC LOAD	DRILL DEPTH	DRILL PIPE SIZE
2JW	7,000 LBS.	500 FT. @ 100 RPM	2" STANDARD PIPE

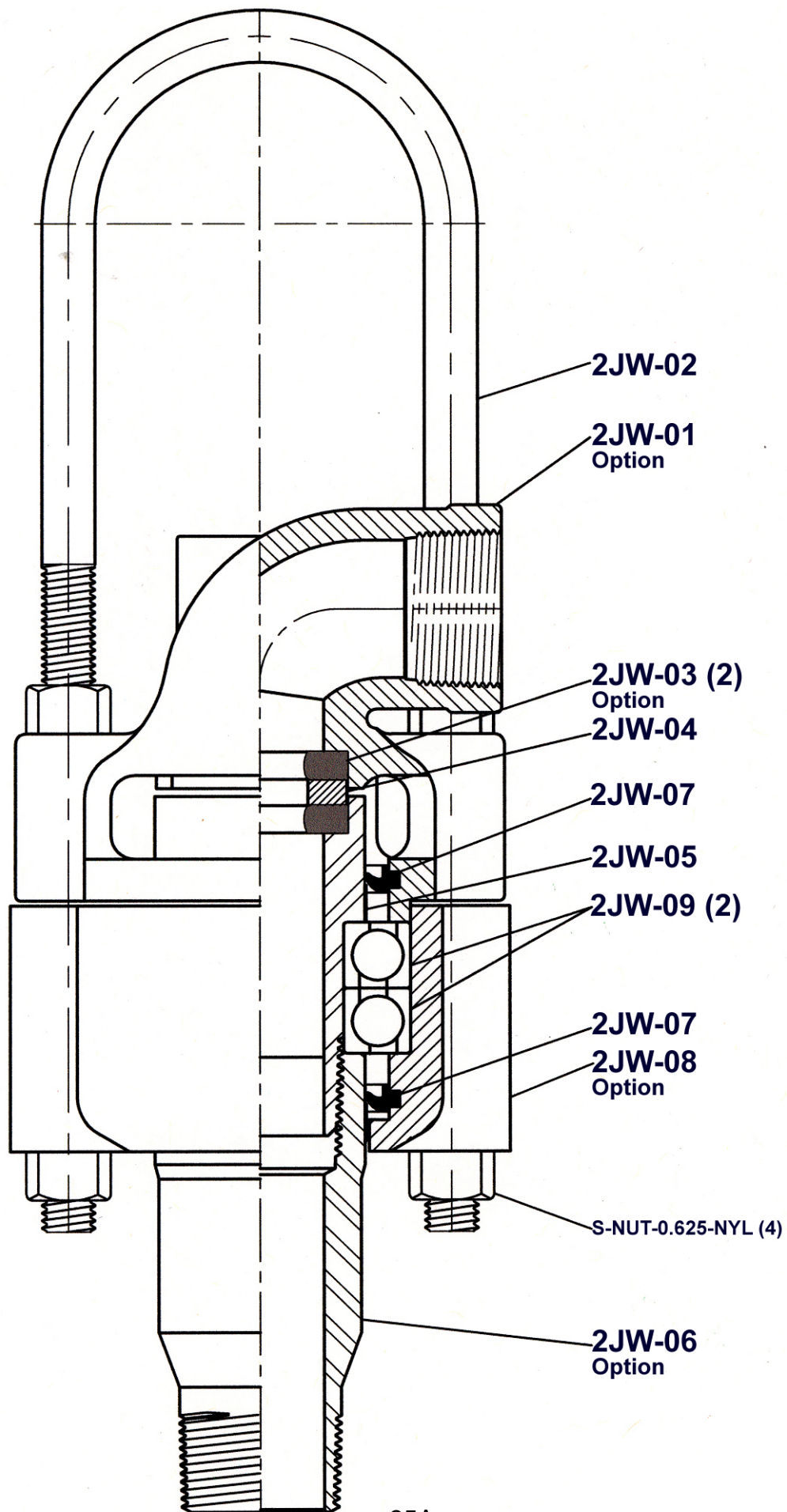
### PARTS LIST

PART NUMBER	NAME	WT/LBS	QTY. REQ.	
<b>2JW-2020-XX</b>	SWIVEL, IRON OR ALUM., 1 1/2" FEMALE OR 2" MALE NPT HOSE CONNECTION, WITH 1 1/2" OR 2" NPT RIGHT OR LEFT PIN LOWER CONNECTION			
	ADD FOR SPECIAL LOWER CONNECTION			
2JW-01D	IRON GOOSENECK, 1 1/2" FEMALE	5.62	1	
2JW-01E	IRON GOOSENECK, 2" MALE	5.62	Option	
2JW-01AD	ALUM. GOOSENECK, 1 1/2" NPT FEMALE	2.09	Option	
2JW-01AE	ALUM. GOOSENECK, 2" MALE	2.09	Option	
2JW-02	BAIL WITH NUTS	2.10	1	
2JW-03	+ PACKING	.04	2	
2JW-03-90	PACKING, 90 DURO	.04	Option	
2JW-03V	PACKING, VITON	.04	Option	
2JW-04	+ WEARBUSHING	.25	1	
2JW-05	BEARING SPINDLE	2.00	1	
2JW-06DA-RP	LOWER CONNECTION, 1 1/2" NPT RH PIN	2.50	Option	
2JW-06DA-LP	LOWER CONNECTION, 1 1/2" NPT LH PIN	2.50	Option	
2JW-06EA-RP	LOWER CONNECTION, 2" NPT RH PIN	2.50	Option	
2JW-06EA-LP	LOWER CONNECTION, 2" NPT LH PIN	2.50	1	
2JW-06YN3-RP	LOWER CONNECTION, N ROD RH PIN, 3 THREAD	4.75	Option	
2JW-06YNW-RP	LOWER CONNECTION, NW ROD RH PIN	4.75	Option	
2JW-07	+ HOUSING SEAL	.06	2	
2JW-07V	HOUSING SEAL, VITON	.06	Option	
2JW-08A	ALUM. BEARING HOUSING	2.00	Option	
2JW-08B	IRON, BEARING HOUSING	5.50	1	
2JW-09	+ BEARING	2.25	2	
2JW-40	MAINTENANCE KIT: (8) 2JW-03; (1) 2JW-04			
2JW-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 3JW



- For all types of drilling
- For rotating speed to 500 RPM
- Constructed from a high grade alloy steel
- Grease lubricated thrust ball bearings in a sealed housing
- Available with or without stiff bail
- Compact
- Simple design allows for easy field maintenance and repair
- Choice of lower connection threads

### TECHNICAL DATA

MODEL	LENGTH	WT/LBS	HOSE CONN.	LOWER CONN* RH OR LH NPT	WATER COURSE	WORKING PRESSURE
3JW	19"	36	2" PIN	2" OR 2-1/2" PIN	MAX. 2"	300 PSI

### CAPACITIES & SAFE DRILL DEPTHS

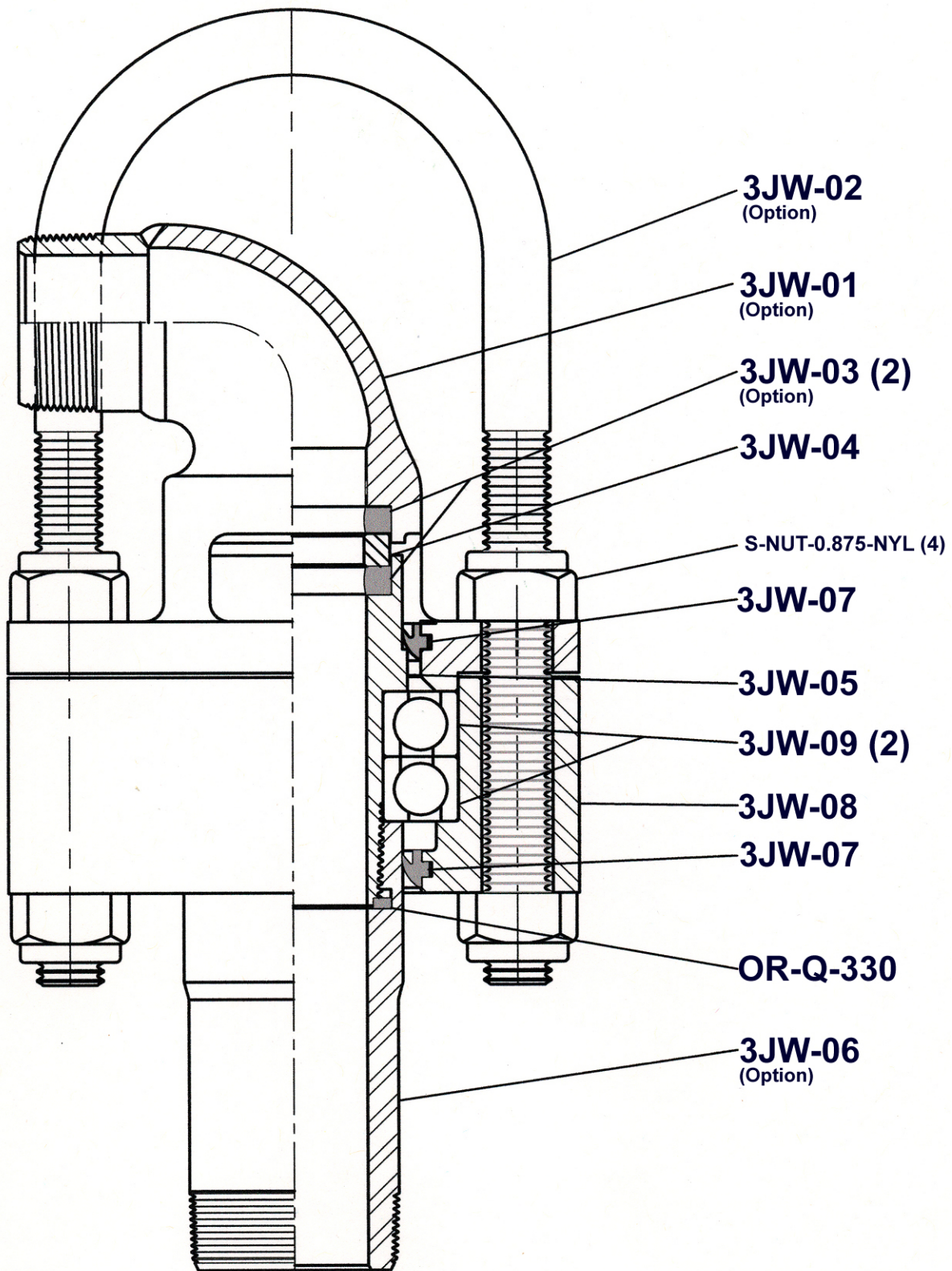
MODEL	STATIC LOAD	ROTATING LOADS	ROTATING SPEED	DRILL DEPTH	PIPE SIZE
3JW	10,000 LBS.	7,200 LBS.	100 RPM	2000 FT	2" STANDARD PIPE

### PARTS LIST

PART NO.	NAME	WT/LBS	QTY. REQ.	
<b>3JW-2030-XX</b>	WESTERN SWIVEL, BAIL, 2" NPT MALE OR FEMALE HOSE CONNECTION, WITH 2" RIGHT OR LEFT HAND PIN LOWER CONNECTION			
	ADD FOR SPECIAL LOWER CONNECTION			
3JW-01	GOOSENECK, 2" NPT MALE HOSE CONNECTION	8.00	Option	
3JW-02	BAIL WITH NUTS	6.00	1	
3JW-02L	BAIL, LONG WITH NUTS	7.50	Option	
3JW-02A	STUDS WITH NUTS	2.00	Option	
3JW-03	+ PACKING	.06	2	
3JW-03-90	PACKING, 90 DURO	.06	Option	
3JW-03V	PACKING VITON	.06	Option	
3JW-04	+ WEARBUSHING	.25	1	
3JW-05	BEARING SPINDLE	3.00	1	
3JW-06EA-RP	LOWER CONNECTION, 2" NPT RH PIN	4.00	Option	
3JW-06EA-LP	LOWER CONNECTION, 2" NPT LH PIN	4.00	1	
3JW-06TA-RP	LOWER CONNECTION, 2 1/2" NPT RH PIN	6.00	Option	
3JW-06TA-LP	LOWER CONNECTION, 2 1/2" NPT LH PIN	6.00	Option	
3JW-07	+ HOUSING SEAL	.25	2	
3JW-07V	HOUSING SEAL VITON	.25	Option	
3JW-08	BEARING HOUSING	9.00	1	
3JW-09	+ BEARING	3.00	2	
OR-Q-330	+ SPINDLE THREAD SEAL	.06	1	
3JW-40	MAINTENANCE KIT (8) 3JW-03 (1) 3JW-04			
3JW-40R	REPAIR KIT + Included in Repair Kit			

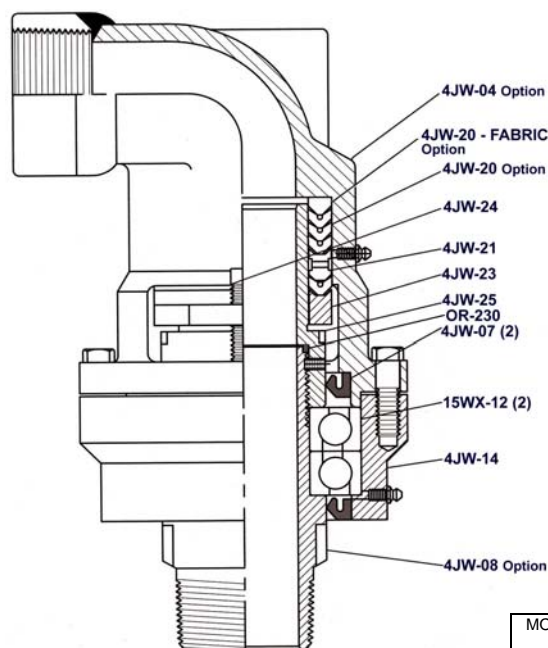
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 4JW ROTATING HEAD



- For all types of drilling
- For rotating speed to 500 RPM
- Constructed from a high grade alloy steel
- Grease lubricated thrust ball bearings in a sealed housing
- Available with or without stiff bail
- Compact
- Simple design allows for easy field maintenance and repair
- Large Watercourse, 2" and 2-1/4"
- Choice of lower connection threads
- Working Pressures to 1500 PSI

### TECHNICAL DATA

MODEL	LENGTH	WT/LBS	HOSE CONN.	LOWER CONN* RH OR LH NPT	WATER COURSE	WORKING PRESSURE
4JW	13" W/O BAIL	50	2-1/2" FEMALE	2-1/2" PIN	MAX. 2-1/4"	1500 PSI

### CAPACITIES & SAFE DRILL DEPTHS

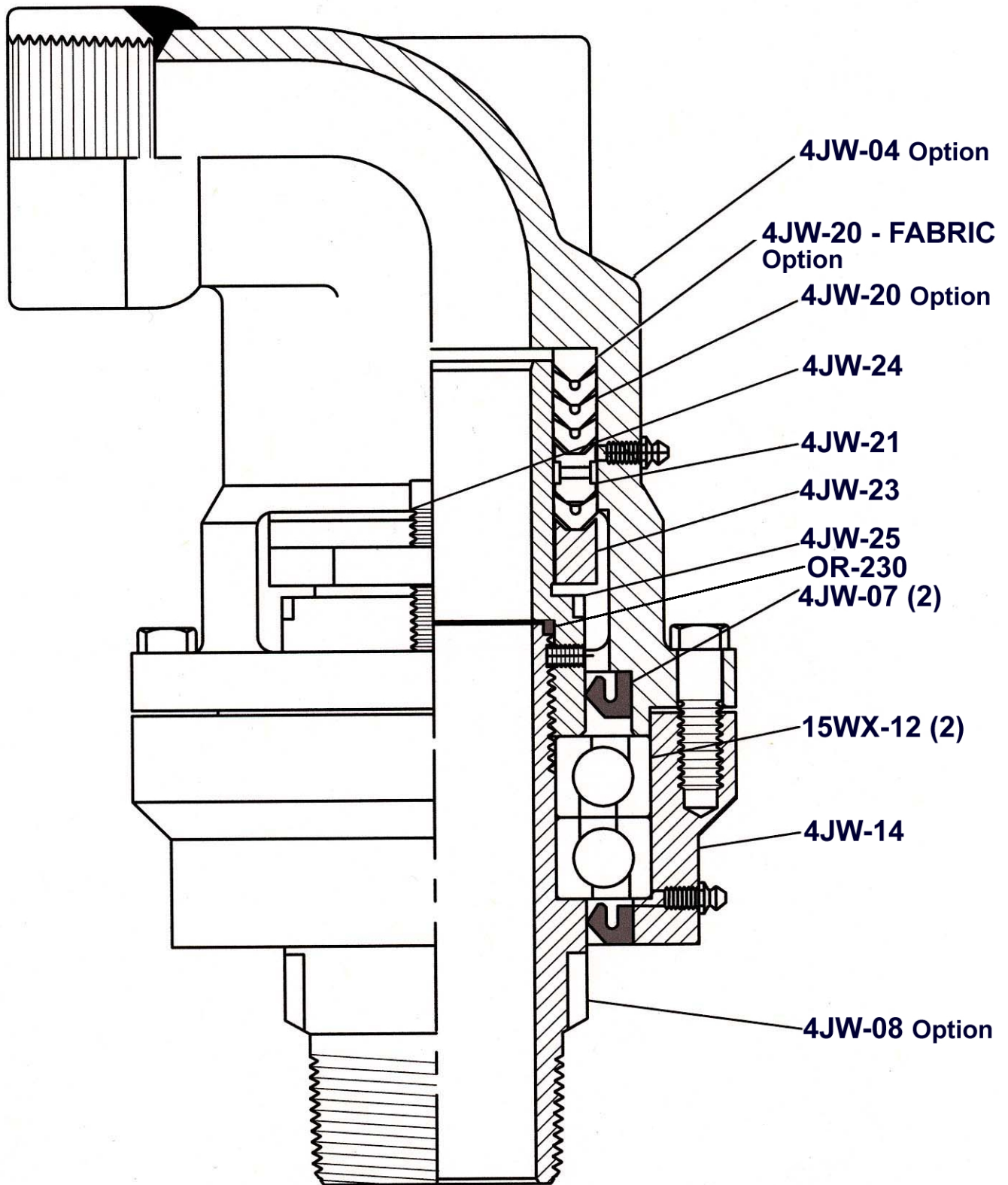
MODEL	STATIC LOAD	ROTATING LOADS	ROTATING SPEED	DRILL DEPTH	PIPE SIZE
4JW	20,000 LBS.	10,500 LBS.	100 RPM	3000 FT	2" STANDARD PIPE

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>4JW-2040-XX</b>	WESTERN SWIVEL, NO BAIL, 2 1/2" NPT FEMALE HOSE CONNECTION WITH 2 1/2" NPT LH PIN LOWER CONNECTION			
	ADD FOR STIFF BAIL			
	ADD FOR SPECIAL LOWER CONNECTION			
4JW-04	GOOSENECK, NO BAIL, 2 1/2" NPT FEMALE H/C	26.00	1	
4JW-04B	GOOSENECK, BAIL, 2 1/2" NPT FEMALE H/C	.25	Option	
4JW-07	+ HOUSING SEAL, UPPER	7.00	2	
4JW-08TA-LP	SPINDLE, 2 1/2" NPT LH PIN LOWER CONN	7.00	1	
4JW-08EA-LB	SPINDLE, 2" NPT LH BOX LOWER CONN		Option	
15WX-12	+ BEARINGS	5.50	2	
4JW-14	BEARING HOUSING	10.00	1	
4JW-14A	CAP SCREW W/LOCK WASHER	.25	4	
4JW-20	+ PACKING SET	1.00	1	
4JW-20-416	PACKING SET LOW PRESSURE	1.00	OPTION	
4JW-20-FABRIC	+ ADAPTER, MALE (FABRIC)	.10	1	
4JW-20-STEEL	ADAPTER, MALE (STEEL)	.75	Option	
4JW-21	LANTERN RING	.75	1	
4JW-23	PACKING ADJUSTING GLAND	2.00	1	
4JW-24	PACKING ADJUSTING BOLT AND NUT	.20	2	
4JW-25	+ WASHPIPE (SPINDLE NUT)	5.00	1	
4JW-25A	+ SET SCREW, WASHPIPE	.01	1	
OR-230	+ O-RING, WASHPIPE	.01	1	
4JW-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







## 5JW ROTATING HEAD

- Fluid Passage – 3" Maximum
- Compact Design
- Thrust Ball Bearings for pressure and radial load support
- Choice of hose and lower connection threads
- Easy field maintenance and repair
- Working Pressure to 2500 PSI

### WEIGHTS AND DIMENSIONAL DATA

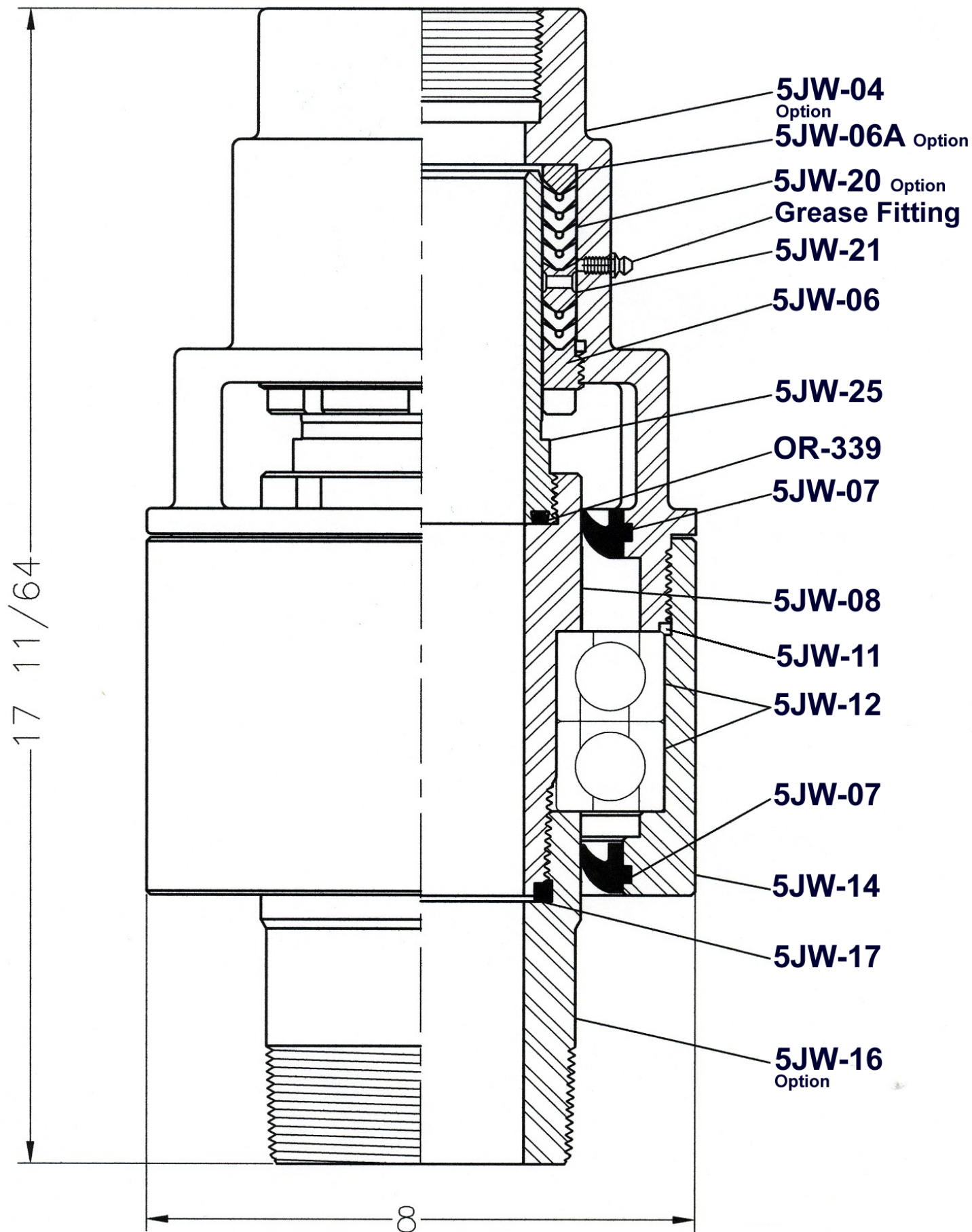
TYPE HEAD	WORKING PRES.	LENGTH INCHES	WT/LBS	LOWER CONN.* LH OR RH BOX OR PIN	HOSE CONN.	WATER COURSE
5JW	2500 PSI	17 ½"	95	3" NPT or 4"	3" or 4"	3"

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	NUMBER REQ.	
<b>5JW-2050-XX</b>	WESTERN SWIVEL, 3" FEMALE HOSE CONNECTION STRAIGHT UP, WITH 3" NPT, RIGHT OR LEFT HAND, BOX OR PIN LOWER CONNECTION			
	ADD FOR SPECIAL LOWER CONNECTION			
	ADD FOR 4" HOSE CONNECTION			
5JW-04	GOOSENECK, 3" NPT FEMALE HOSE CONNECTION	25.00	1	
5JW-04A	GOOSENECK, 4" MALE HOSE CONNECTION	25.75	Option	
5JW-06	PACKING ADJUSTING GLAND	1.12	1	
5JW-06A	+ PACKING SEAT RING	.25	1	
5JW-06S	PACKING SEAT RING (STEEL)	1.00	Option	
5JW-07	+ HOUSING SEAL	.25	2	
5JW-07V	HOUSING SEAL VITON	.25	Option	
5JW-08	BEARING SPINDLE, 3" FLUID PASSAGE	8.00	1	
5JW-11	BEARING RETAINER WIRE	.10	1	
5JW-12	+ BEARING	8.00	2	
5JW-14	BEARING HOUSING	10.00	1	
5JW-16HA-RB	LOWER CONNECTION, 3" NPT RH BOX	15.00	Option	
5JW-16HA-RP	LOWER CONNECTION, 3" NPT RH PIN	14.00	Option	
5JW-16HA-LB	LOWER CONNECTION, 3" NPT LH BOX	15.00	1	
5JW-16HA-LP	LOWER CONNECTION, 3" NPT LH PIN	14.00	Option	
5JW-16IA-RB	LOWER CONNECTION, 4" NPT RH BOX	18.00	Option	
5JW-16IA-RP	LOWER CONNECTION, 4" NPT RH PIN	17.00	Option	
5JW-16IA-LB	LOWER CONNECTION, 4" NPT LH BOX	18.00	Option	
5JW-16IA-LP	LOWER CONNECTION, 4" NPT LH PIN	17.00	Option	
5JW-17	+ SPINDLE THREAD SEAL	.25	1	
5JW-20	+ PACKING SET	.50	1	
5JW-20-416	PACKING (LOW PRESSURE)	.50	Option	
5JW-21	LANTERN RING	1.00	1	
5JW-25	+ WASHPIPE	4.50	1	
OR-339	+ O RING	.01	1	
5JW-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



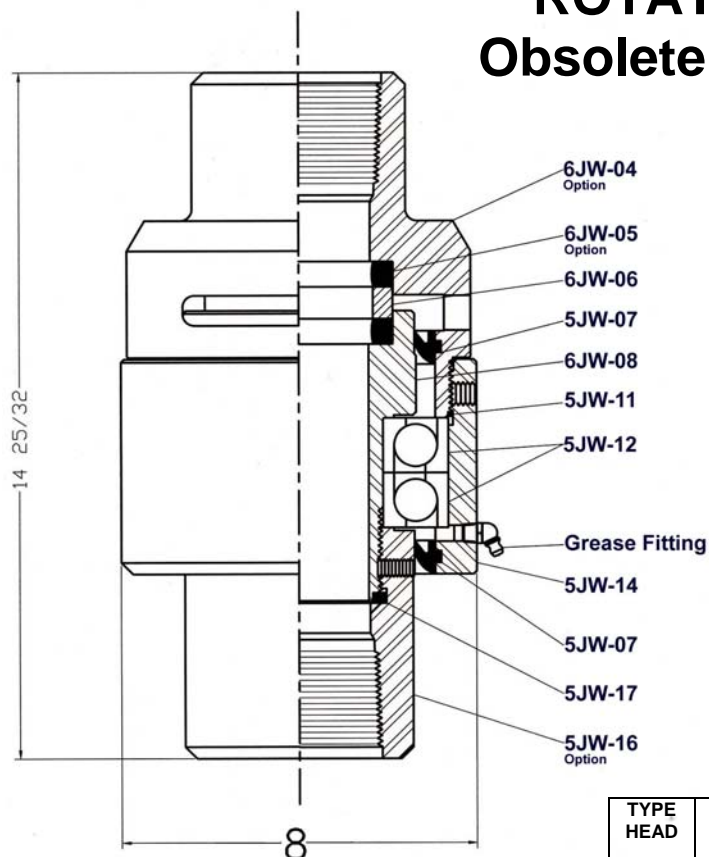
**COMING SOON:**

**5BD**

## 6JW

### ROTATING HEAD

### Obsolete – Parts Only



- Fluid Passage – 3" Maximum
- Compact Design
- Thrust Ball Bearings for pressure and radial load support
- Choice of hose and lower connection threads
- Easy field maintenance and repair
- Working Pressure to 300 PSI

#### WEIGHTS AND DIMENSIONAL DATA

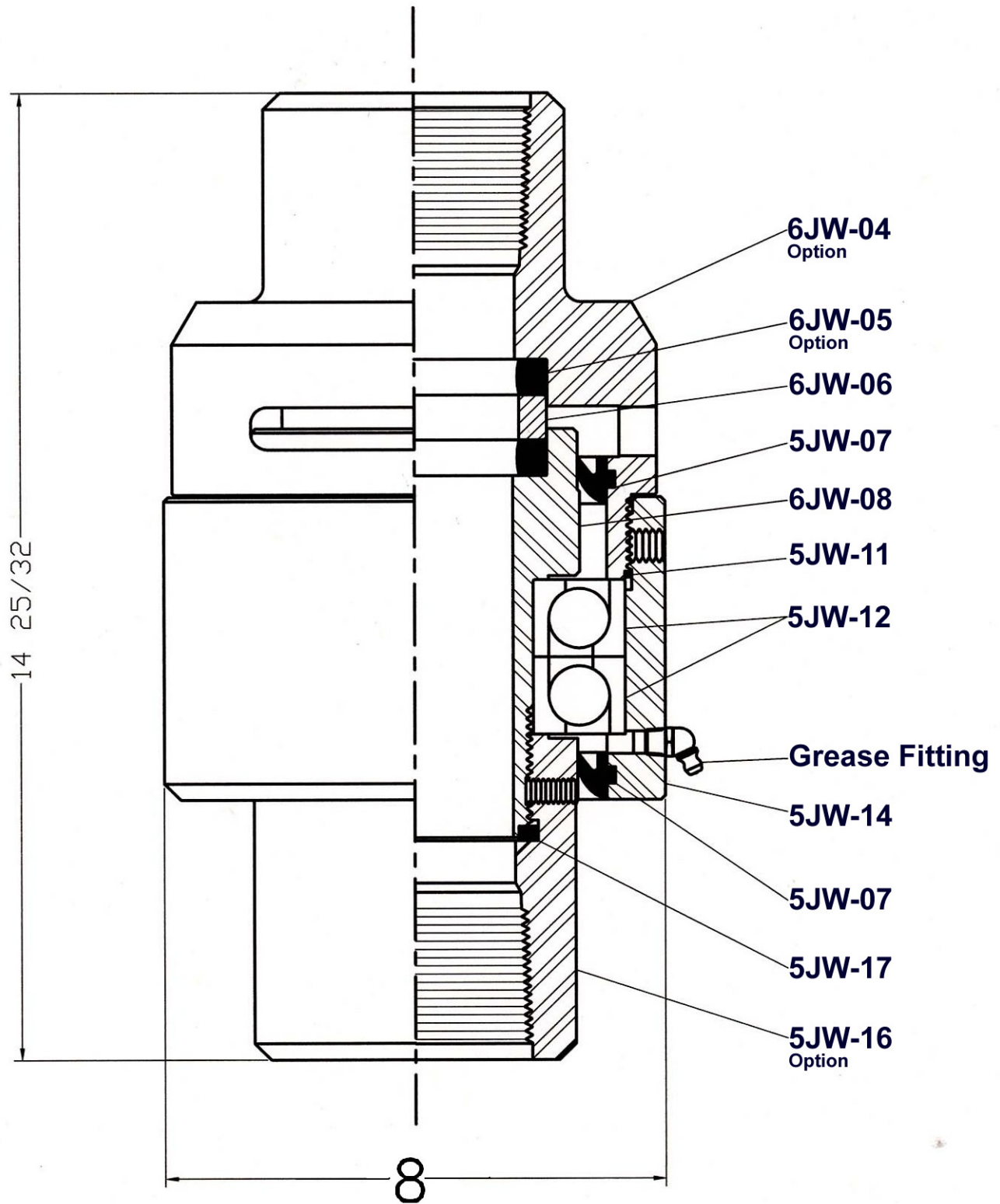
TYPE HEAD	WORKING PRES.	LENGTH INCHES	WT/LBS	LOWER CONN.* LH OR RH BOX OR PIN	HOSE CONN.	WATER COURSE
6JW	300	14 1/2"	70	3" NPT or 4"	3" or 4"	3"

#### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	NUMBER REQ.	
6JW-04	GOOSENECK, 3" NPT FEMALE HOSE CONNECTION	18.00	1	
6JW-04A	GOOSENECK, 4" NPT MALE HOSE CONNECTION	18.50	OPTION	
6JW-05	+ PACKING	.25	2	
6JW-05-90	PACKING, 90 DURO	.25	OPTION	
6JW-05V	PACKING, VITON	.25	OPTION	
6JW-06	+ WEARBUSING	1.00	1	
6JW-08	BEARING SPINDLE	8.00	1	
5JW-07	+ HOUSING SEAL	.25	2	
5JW-07V	VITON PACKING	.25	OPTION	
5JW-11	BEARING RETAINER WIRE	.10	1	
5JW-12	+ BEARING	8.00	2	
5JW-14	BEARING HOUSING	10.00	1	
5JW-16HA-LB**	LOWER CONNECTION, 3" NPT LH BOX		1	
5JW-16HA-RP	LOWER CONNECTION, 3" NPT RH PIN	15.00		
5JW-17	+ SPINDLE THREAD SEAL	.25	1	
6JW-40	MAINTENANCE KIT (8) 6JW-05, (1) 6JW-06			
6JW-40R	REPAIR KIT + Included in Repair Kit			

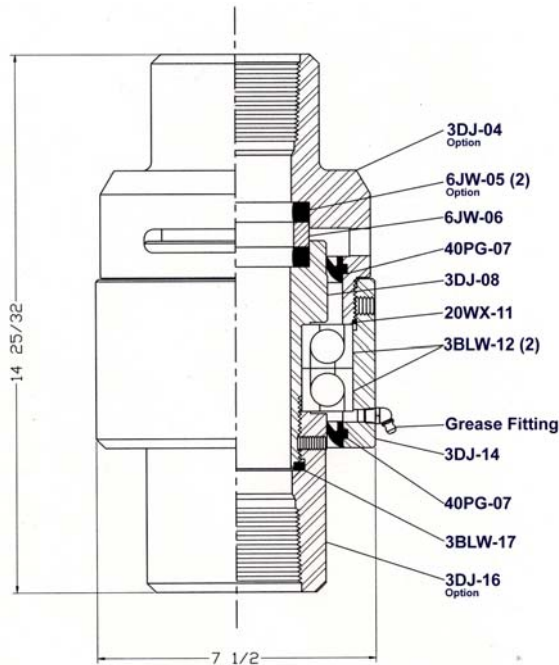
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 3DJ Rotating Head



- 3" Fluid Passage
- Compact Design
- Thrust ball bearings grease lubricated for radial and thrust loads
- Available with STIFF BAIL
- Available with 90 degree hose connection.
- For both air and mud rotary

### WEIGHTS AND DIMENSIONAL DATA

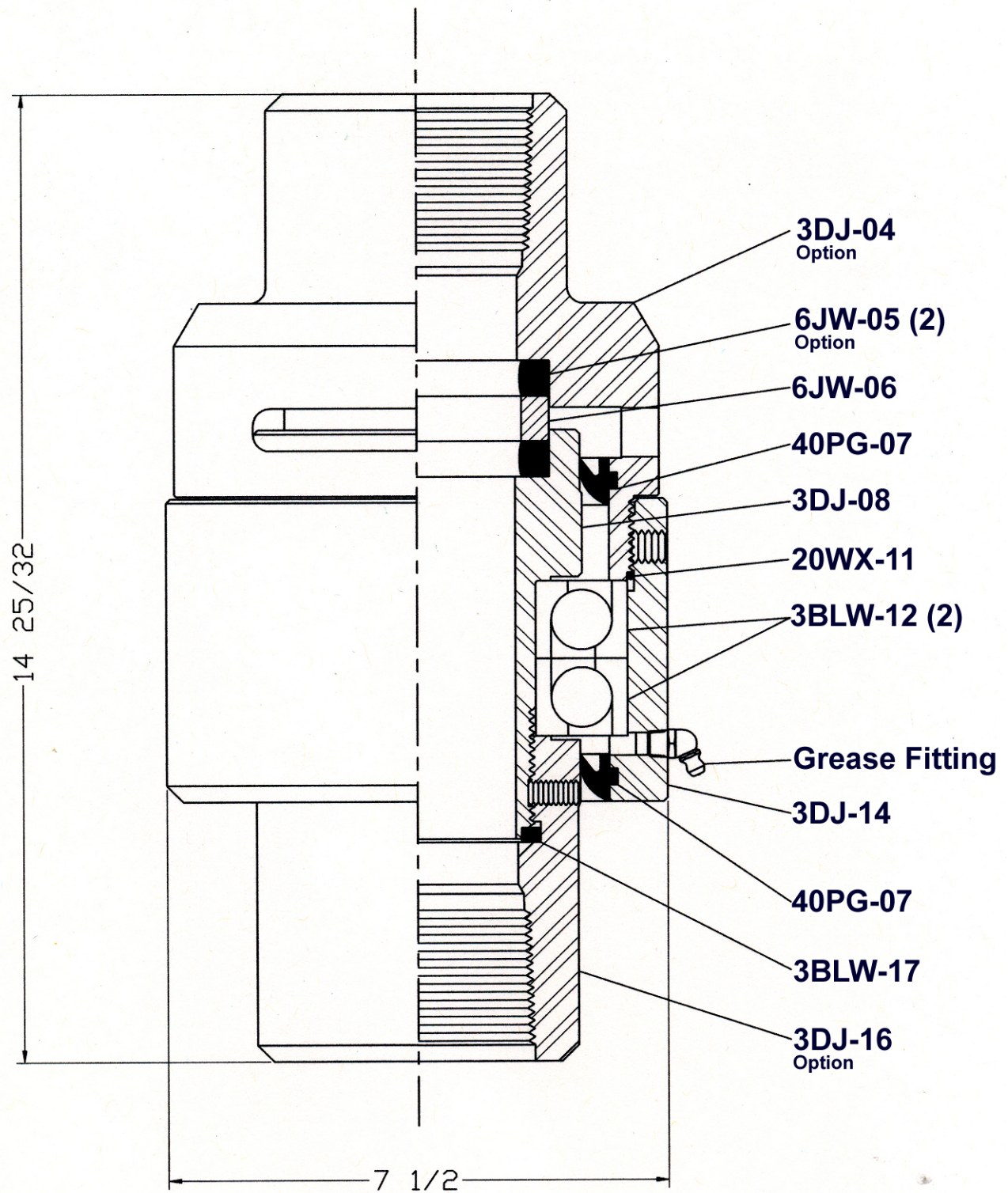
LENGTH	WT/LB	HOSE CONN	LOWER CONN	WATERCOURSE	WORKING PRESSURE
14 1/2"	65	3" NPT FEMALE	2 1/2" OR 3" NPT	3"	TO 300 PSI

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	NUMBER REQ.	
<b>3DJ-2500-XX</b>	WESTERN ROTATING HEAD, 3" FEMALE OR 4" MALE NPT HOSE CONNECTION, WITH 3" NPT RH/LH BOX OR PIN LOWER CONNECTION			
	ADD FOR STIFF BAIL			
	ADD FOR SPECIAL LOWER CONNECTION			
3DJ-04A **	GOOSENECK, 3" NPT BOX HOSE CONNECTION	18.00	1	
6JW-05	+ PACKING	.25	2	
6JW-05-90	PACKING, 90 DURO HIGH PRESSURE	.25	Option	
6JW-06	+ WEARBUSHING	1.00	1	
40PG-07	+ HOUSING SEALS	.20	2	
3DJ-08	BEARING SPINDLE	8.00	1	
20WX-11	BEARING RETAINER WIRE	.12	1	
3BLW-12	+ BEARING	7.50	2	
3DJ-14	BEARING HOUSING	10.00	1	
3DJ-16HA-RB	LOWER CONNECTION, 3" NPT RH BOX	15.00	Option	
3DJ-14HA-LB	LOWER CONNECTION, 3" NPT LH BOX	15.00	1	
3DJ-16IA-RB	LOWER CONNECTION, 4" NPT RH BOX	18.00	Option	
3DJ-16IA-LB	LOWER CONNECTION, 4" NPT RH PIN	17.00	Option	
3DJ-16HA-RP	LOWER CONNECTION, 3" NPT RH PIN	15.00	Option	
3DJ-16HA-LP	LOWER CONNECTION, 3" NPT LH PIN	15.00	Option	
3DJ-16IA-RP	LOWER CONNECTION, 4" NPT RH PIN	18.00	Option	
3DJ-16IA-LP	LOWER CONNECTION, 4" NPT LH PIN	18.00	Option	
3DJ-16TA-LP	LOWER CONNECTION, 2 1/2" NPT LH PIN	13.50	Option	
3BLW-17	+ SPINDLE THREAD SEAL	.15	1	
SS-37X37	SET SCREW, LOWER CONNECTION	.01	1	
SS-50X37	SET SCREW, BEARING HOUSING	.01	1	
6JW-40	MAINTENANCE KIT (8) 6JW-05 (1) 6JW-06 WEARBUSHING			
3DJ-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 3WRAM ROTATING HEAD SPECIAL SWIVEL



- High Pressure Rotating Head
- Grease Lubricated Packing & Bearings
- Simple Bolt Together Design
- Optional Connections
- Alloy Steel Constructed

**SAFE WEIGHT CAPACITY  
DESIGNED FOR PRESSURE LOAD ONLY**

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	UPPER CONN.	LOWER CONN.	SIDE CONN.	FLUID PASSAGE	WORKING PRESSURE
16 7/8	7 5/8	95 lbs.	Option	Option	Option	3"	To 3000 PSI

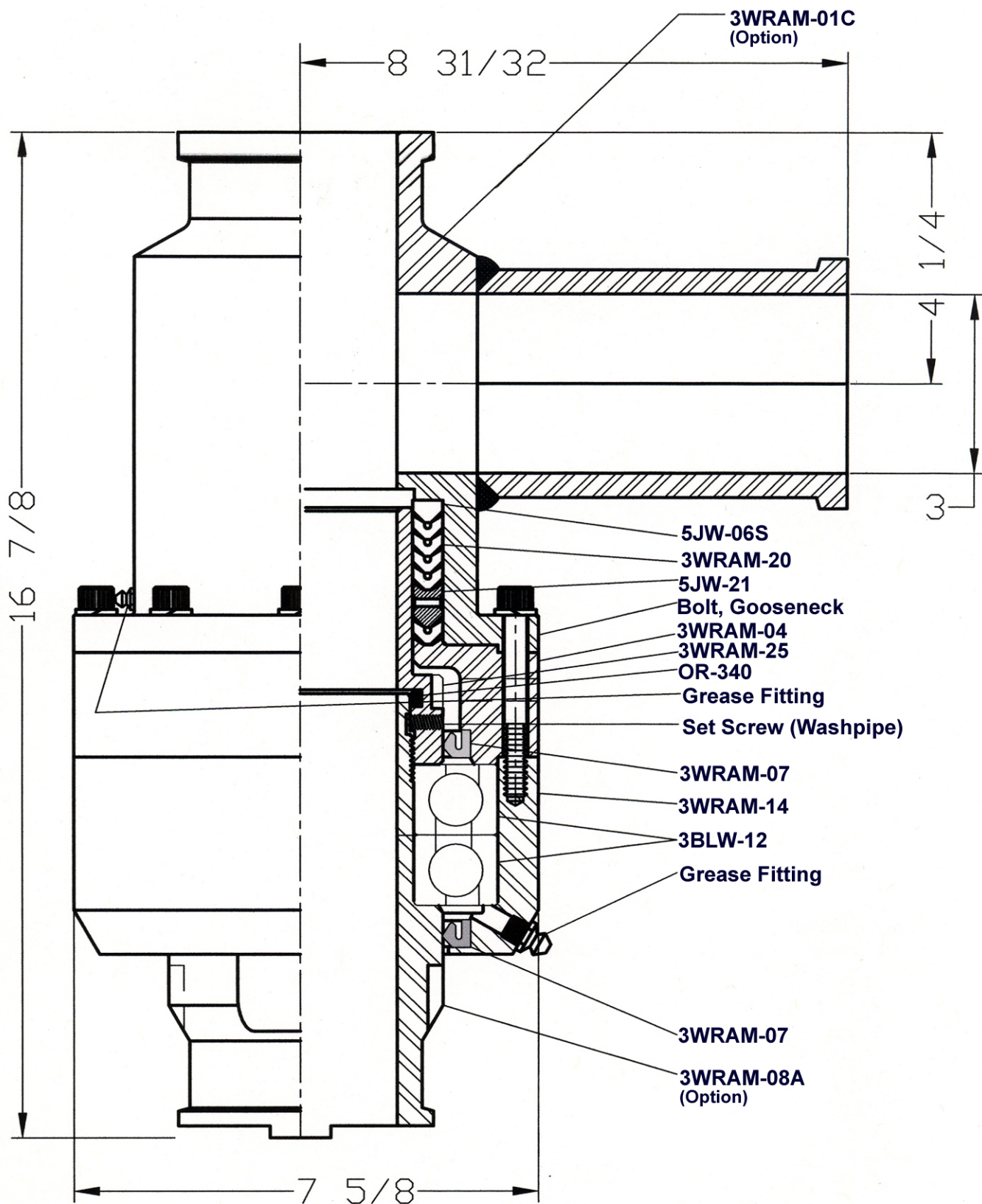
### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>3WRAM-2400-XX</b>	WESTERN ROTATING HEAD, 3" VICTOLIC STRAIGHT UP 3" VICTOLIC SIDE CONNECTION WITH 3" VICTOLIC LOWER CONNECTION		1	
3BLW-12	BEARING		2	
3WRAM-01C	GOOSENECK		1	
3WRAM-04	ADAPTER, PACKING		1	
3WRAM-07	HOUSING SEAL		2	
3WRAM-08A	SPINDLE, 3" VIC FLANGE		1	
3WRAM-14	HOUSING, BEARING		1	
3WRAM-20	PACKING SET		1	
3WRAM-25	WASHPIPE		1	
5JW-06S	PACKING SEAT RING (STEEL)		1	
5JW-21	LANTERN RING		1	
OR-340	O RING		1	

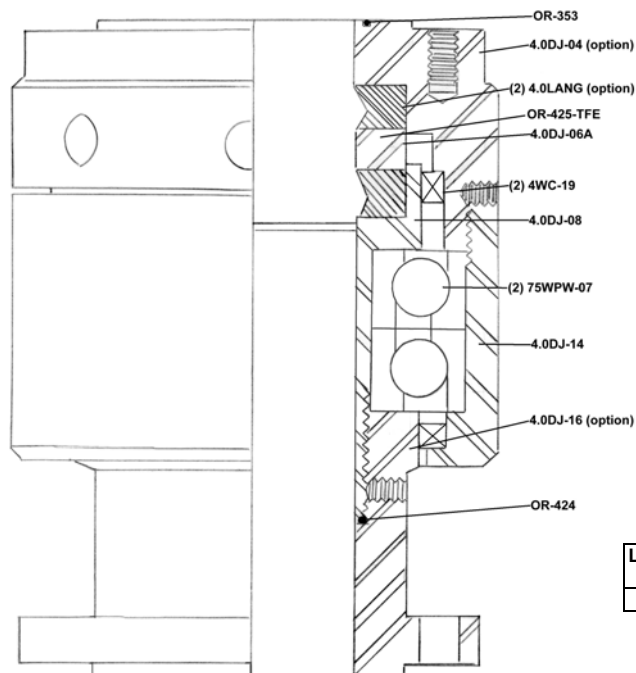
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 4.0 DJ ROTATING HEAD



- Fluid Passage – 4" Maximum
- Compact Design
- Thrust Ball Bearings for pressure and radial load support
- Choice of hose and lower connection threads
- Easy field maintenance and repair

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
13	9	145	150# Flange	150# Flange	4"	TO 300 PSI

**WEIGHT CAPACITY**  
DESIGNED FOR PRESSURE LOAD ONLY

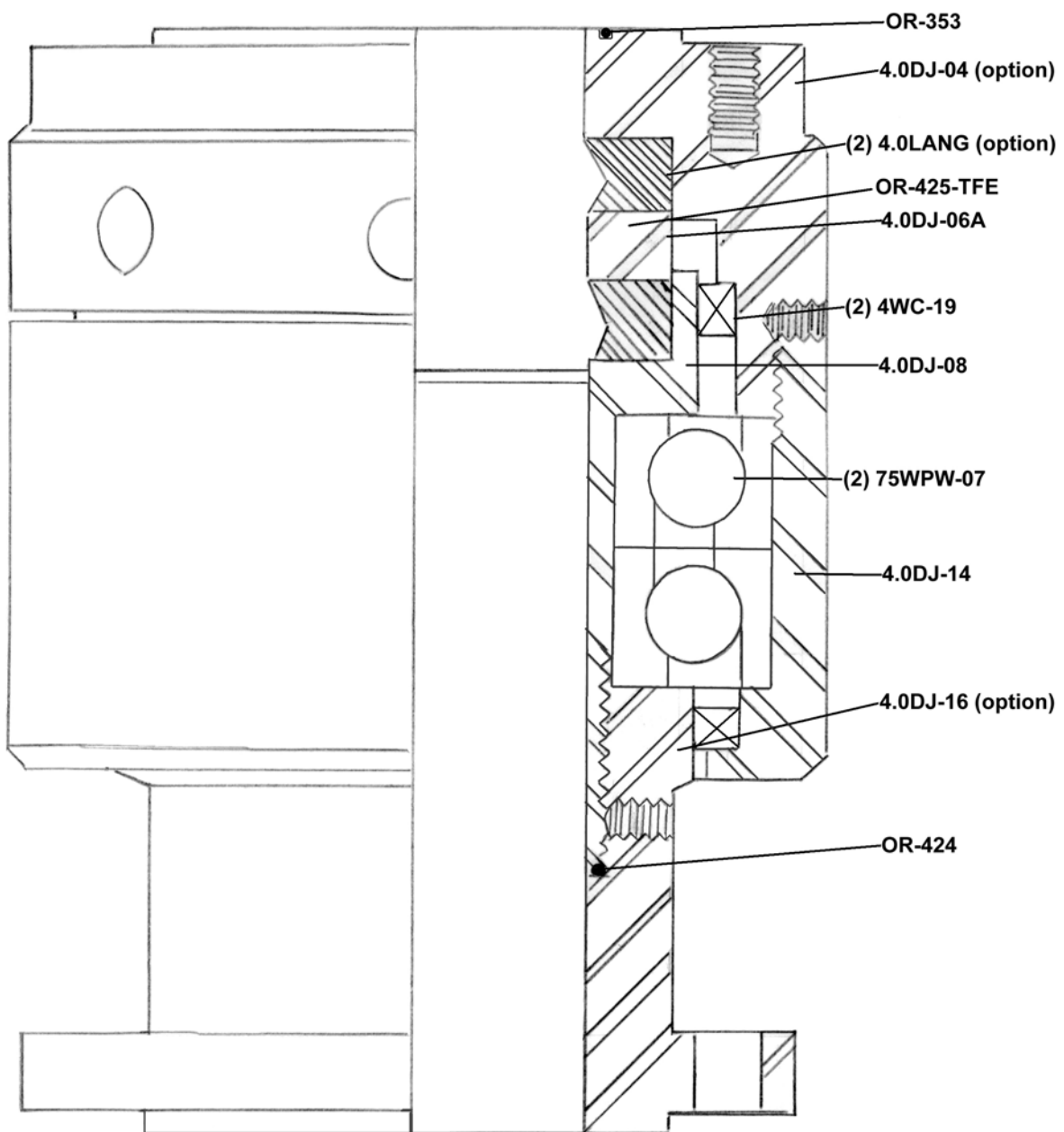
### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>4.0DJ-2800-XX</b>	WESTERN ROTATING HEAD, 4", 150# FLANGE HOSE CONNECTION WITH 4", 150# FLANGE LOWER CONNECTION 4" ID, TO 300 PSI W.P.			
4.0DJ-04	GOOSENECK, 150# FLANGE HOSE CONNECTION		OPTION	
4.0 LANG	PACKING		2	
4.0 LANG-90	PACKING, 90 DURO		OPTION	
4.0 DJ-06A	WEARBUSHING WITH O-RINGS		1	
4WC-19	HOUSING SEAL		2	
75WPW-07	BEARINGS		2	
4.0DJ-8	SPINDLE, BEARING		1	
4.0DJ-14	HOUSING, BEARING		1	
4.0DJ-16IK	CONNECTION, LOWER (4" 150# FLANGE)		OPTION	
OR-353	O-RING (GOOSENECK)		1	
OR-424	O-RING (THREAD SEAL)		1	
OR-425-TFE	O-RING (WEARBUSHING)		2	

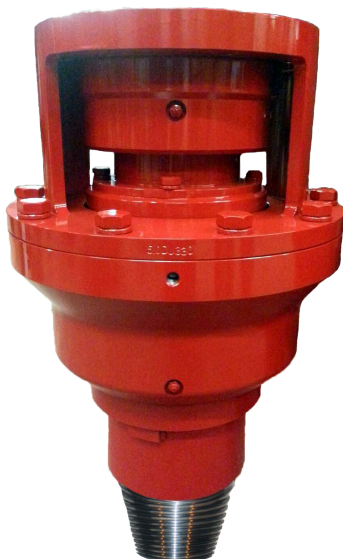
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 5.0 DJ ROTATING HEAD “SPECIAL SWIVEL”



- Fluid Passage – 5” Maximum
- Adjustable tapered roller bearing
- Chevron V-Ring Packing
- Grease Lubricated – Bearings & Packing
- For Working Pressure to 2500 PSI

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
20 5/8"	15"	395	5", 150 Flange	5 1/2 IF (MOD)	To 5"	TO 1500 PSI

### WEIGHT CAPACITY

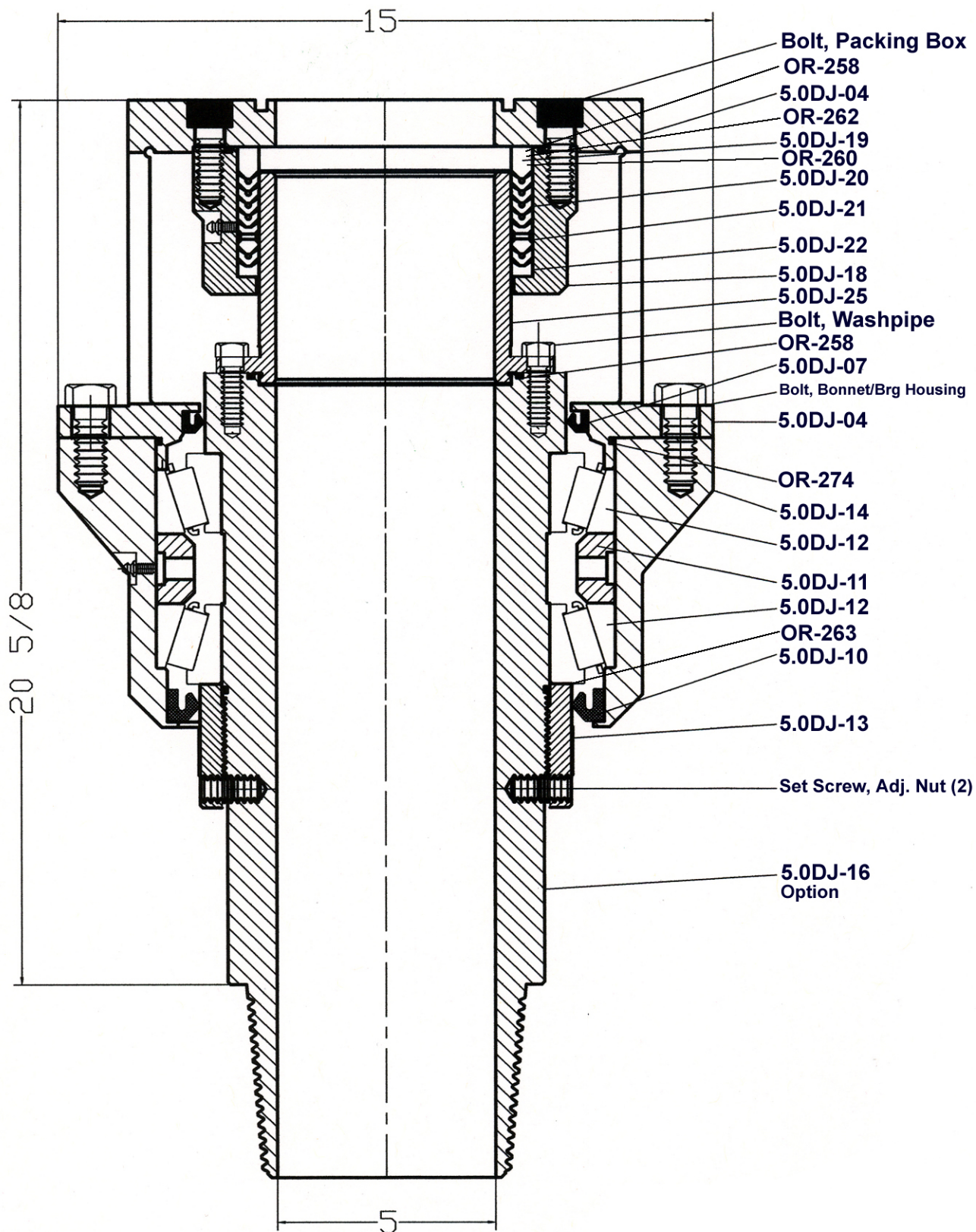
DESIGNED FOR PRESSURE LOAD ONLY

### PARTS LIST

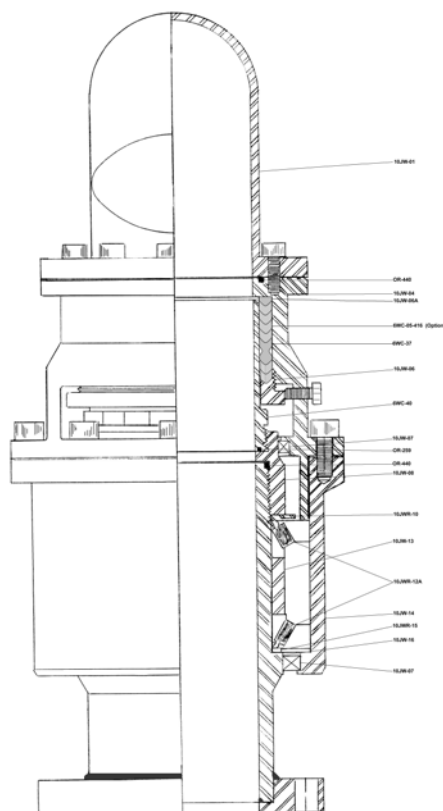
PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>5.0DJ-2600-XX</b>	WESTERN ROTATING HEAD, TO 5" ID, 5" FLANGED UPPER CONNECTION WITH O-RING GROOVE, 5 1/2" IF (MOD) LH PIN LOWER CONNECTION			
5.0DJ-04	BONNET		1	
5.0DJ-07	SEAL, UPPER		1	
5.0DJ-10	SEAL, LOWER		1	
5.0DJ-11	SPACER, BEARING		1	
5.0DJ-12	BEARING (CUP & CONE)		2	
5.0DJ-13	NUT, BEARING ADJUSTING		1	
5.0DJ-14	HOUSING, BEARING		1	
5.0DJ-16	SPINDLE, 5 1/2" IF (MOD) LH PIN		OPTION	
5.0DJ-18	BOX, PACKING		1	
5.0DJ-19	GLAND, PACKING		1	
5.0DJ-20	PACKING SET		1	
5.0DJ-20-416	PACKING SET (LOW PRESSURE)		OPTION	
5.0DJ-21	RING, LANTERN		1	
5.0DJ-22	RING, PACKING SEAT		1	
5.0DJ-25	WASHPIPE		1	
OR-258	O RING, WASHPIPE / PKG BOX		2	
OR-263	O RING, ADJ. NUT		1	
OR-274	O RING, BONNET		1	
OR-432	O RING, FLANGE		1	
OR-262	O RING, PKG BOX		1	
OR-260	O RING, PACKING GLAND		1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



# 10 JW “SPECIAL SWIVEL”



- Fluid Passage – 6”
- Adjustable tapered roller bearing
- Adjustable Chevron (V-Ring) Packing
- Grease Lubricated – Bearings & Packing
- Available for airlift reverse drilling

## TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
28”	12 7/8		150 Flange	150 Flange	6	TO 1500 PSI

## WEIGHT CAPACITY

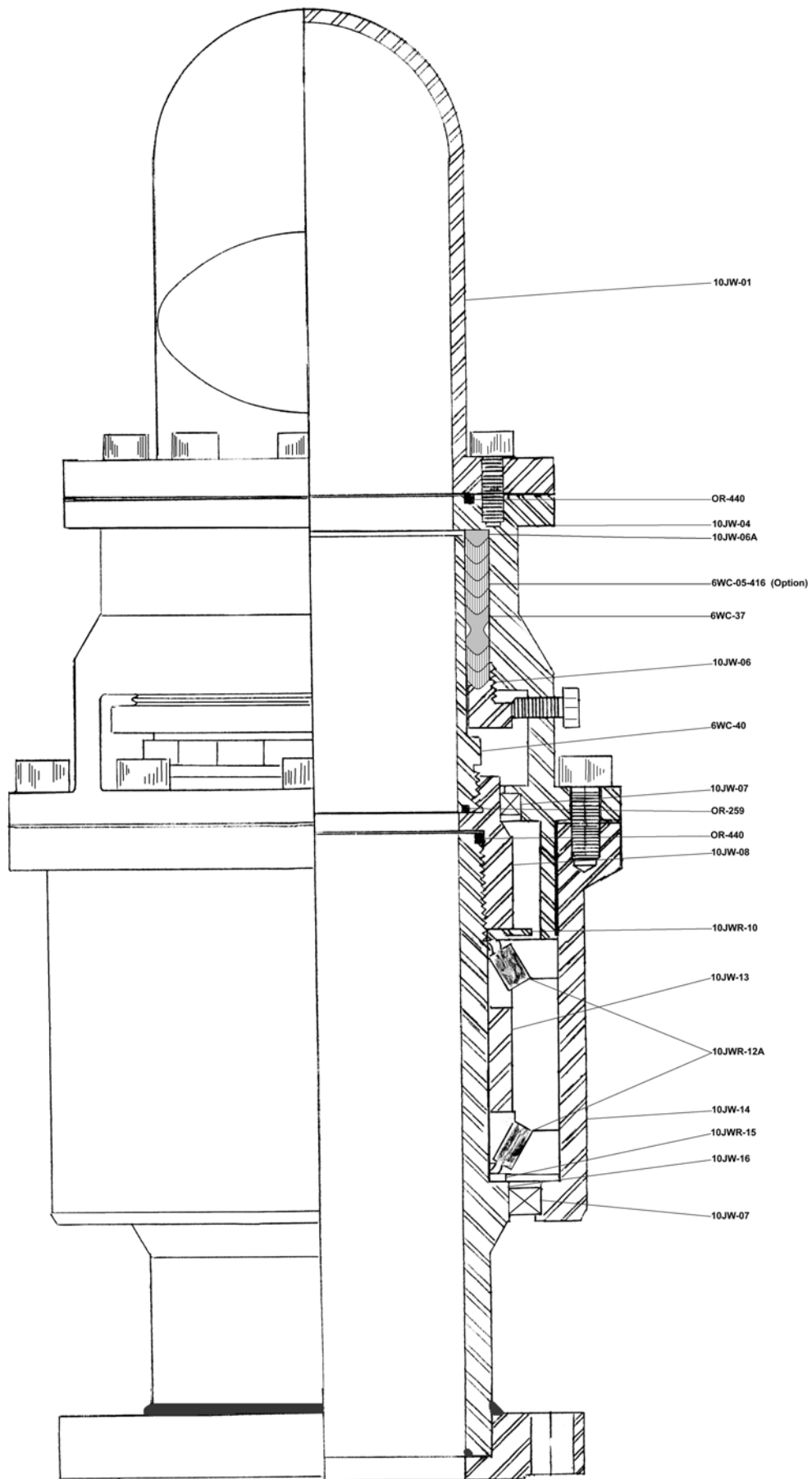
DESIGNED FOR PRESSURE LOAD ONLY

## PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>10JW-2090-XX</b>	WESTERN ROTATING HEAD, 6” ID, 6” 150# FLANGE HOSE CONNECTION, WITH 2” NPT FEMALE AIRLINE CONNECTION, 6” 150# FLANGE LOWER CONNECTION			
10JW-01	GOOSENECK, 6” 150# FLANGE WITH 2” NPT AIRLINE CONNECTION		1	
10JW-04	BONNET		1	
10JW-06	PACKING ADJUSTING GLAND		1	
10JW-06A	PACKING ADAPTER RING		1	
10JW-07	HOUSING SEAL		2	
10JW-08	SPINDLE NUT		1	
10JW-13	BEARING (CUP AND CONE)		2	
10JW-14	BEARING HOUSING		1	
10JW-16	SPINDLE, 6” 150# FLANGE		1	
10JWR-10	BEARING SHIELD		1	
10JWR-12A	INNER BEARING SPACER		1	
10JWR-15	LOWER BEARING SPACER		1	
6WC-05-416	PACKING SET, LOW PRESSURE		1	
6WC-05	PACKING SET, HIGH PRESSURE		OPTION	
6WC-37	LANTERN RING		1	
6WC-40	WASHPIPE		1	
OR-259	O RING (WASHPIPE)		1	
OR-440	O RING (BONNET AND NUT)		2	

Other sizes of connections available, please consult factory.

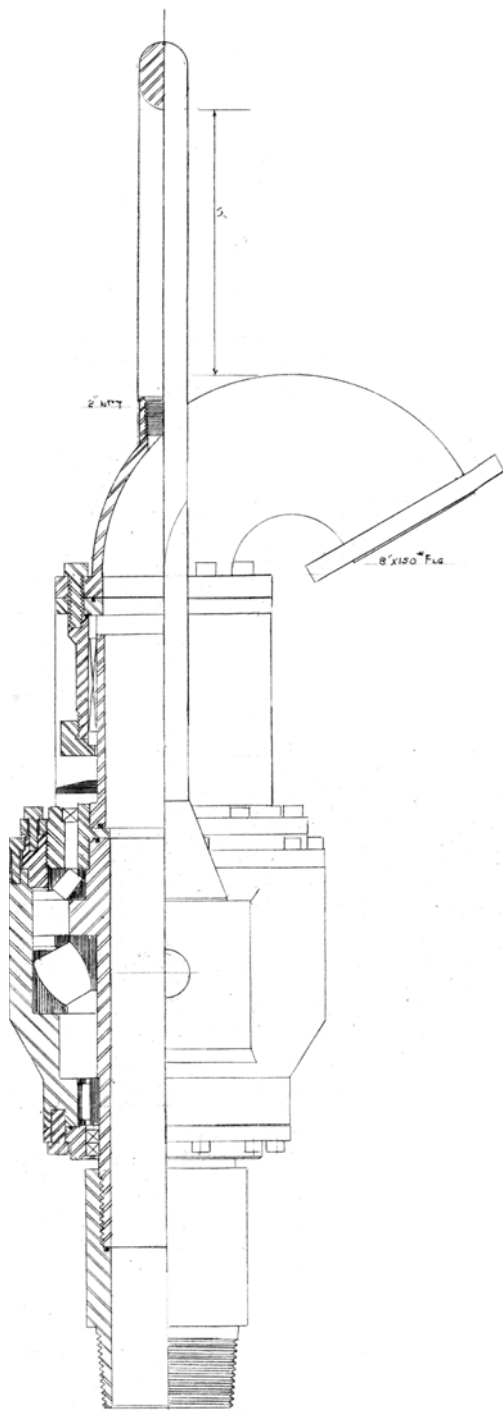
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 7WC “SPECIAL SWIVEL”

- Full 7” ID Watercourse
- Adjustable bearings
- Oil Bath Lubrication – Bearings
- Quick change packing assembly
- Adjustable Chevron packing
- For conventional and airlift drilling



### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
92"	19 5/8	13"	8", 150 Flange	Option	7"	TO 1000 PSI

### WEIGHT CAPACITY

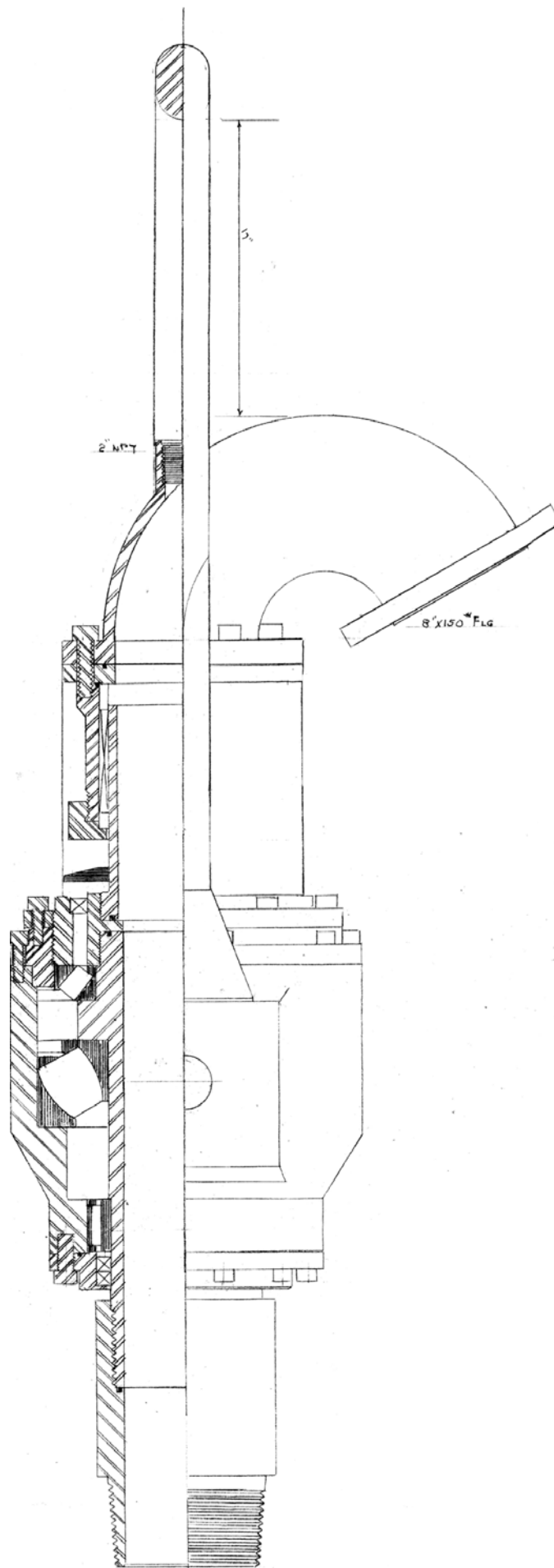
STATIC LOAD – 425,000 LBS	ROTATING LOAD – 325,000 LBS @ 20 RPM
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### PARTS LIST

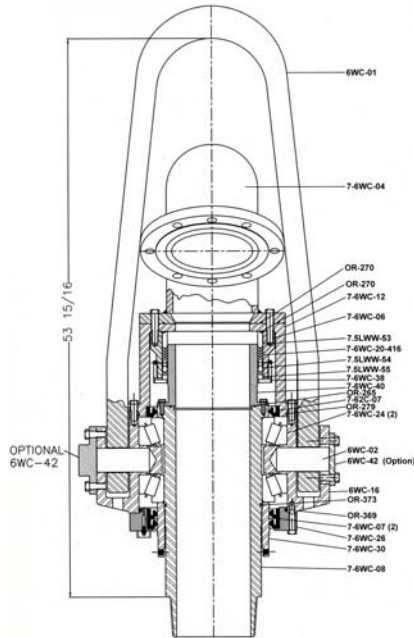
PART NUMBER	DESCRIPTION	QTY. REQ.	PRICE
<b>7WC-5080-XX</b>	WESTERN SWIVEL, 7" WATERCOURSE, 8" FLANGED HOSE CONNECTION, 2" NPT FEMALE AIRE LINE PASSAGE, WITH CHOICE OF LOWER CONNECTION THREADS		CONSULT

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 7-6WC SWIVEL “SPECIAL SWIVEL”



The 7-6WC is designed for the Water Well, Irrigation, and the Construction Drilling market. This compact swivel with its 7" ID watercourse can be used for both conventional and reverse circulation drilling.

- Large watercourse, full 7" ID
- Quick change packing box
- Equal hoisting and pulldown capacity
- Adjustable bearings and packing
- 2" NPT female airline connection
- Weld beveled sub furnished for Kelly connection

### TECHNICAL DATA & WEIGHT

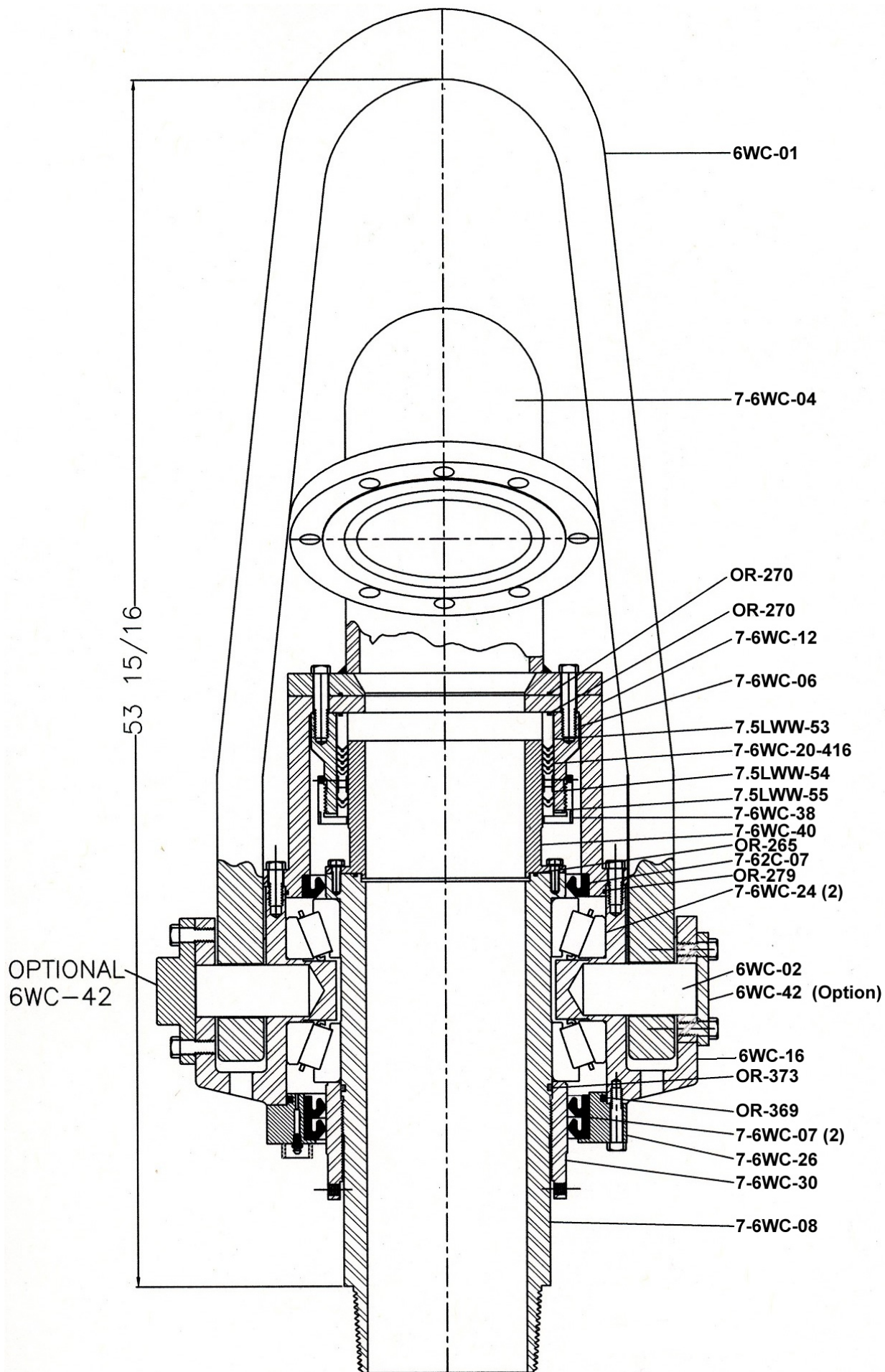
STATIC LOAD CAPACITY	ROTATING LOAD CAP. @ 35 RPM	WORKING PRESSURE	HOSE CONNECTION	WT/LB	WORKING LENGTH
175,000 LBS	80,000 LBS	TO 1500 PSI	8" FLANGE	825	60"

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY REQ	
<b>7-6WC-5002-XX</b>	WESTERN SWIVEL, 7" WATERCOURSE, 8" FLANGED HOSE CONN. WITH 2" NPT FEMALE AIR CONN., WITH 7" (MOD) LH PIN LOWER CONNECTION, FURNISHED WITH BEVEL FOR WELD SAVER SUB. (LIMITED TO 10" OD)			
6WC-01	BAIL	105.00	1	
6WC-02	BAIL PINS	8.00	2	
6WC-02A	BAIL PIN RETAINER	1.00	2	
7-6WC-04	GOOSENECK		1	
6WC-04-CS	CAP SCREW W/WASHER	.50	8	
7-6WC-06	PACKING BOX		1	
7-6WC-07	SEAL, HOUSING		3	
7-6WC-08	SPINDLE		1	
7-6WC-12	BONNET		1	
7-6WC-12-CS	CAP SCREW W/WASHER	.50	8	
6WC-16	BEARING HOUSING	120.00	1	
7-6WC-20-416	PACKING SET (LOW PRESSURE)		1	
7-6WC-20	PACKING SET		OPTION	
7-6WC-24	MAIN BEARING (CUP & CONE)		2	
7-6WC-26	LOWER OIL BOX		1	
6WC-26-CS	CAP SCREW W/WASHER	.20	6	
7-6WC-29	SUB, BEVEL FOR WELDING		1	
7-6WC-30	BEARING ADJUSTING NUT		1	
6WC-30-SS	SET SCREW	.20	4	
7-6WC-38	PACKING ADJUSTING GLAND		1	
7-6WC-40	WASHPIPE		1	
6WC-42	TORQUE FLANGE		OPTION	
7-5LWW-53	PACKING GLAND		1	
7-5LWW-54	LANTERN RING	71.66	1	
7-5LWW-55	RING, PACKING SEAT	48.51	1	
OR-270	O RING		2	
OR-265	O RING		1	
OR-279	O RING		1	
OR-456	O RING		1	
OR-373	O RING		1	
OR-178	O RING		1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 6WC

### “SPECIAL SWIVEL”

The 6WC is designed for the Water Well, Irrigation, and the Construction Drilling market. This compact swivel with its 6” ID watercourse can be used for both Conventional and Reverse Circulation drilling.

#### FEATURES IN BRIEF

- LARGE WATERCOURSE, full 6” ID
- QUICK CHANGE packing box.
- EQUAL HOISTING and PULLDOWN capacity.
- ADJUSTABLE BEARINGS and PACKING.
- 2” NPT female air line connection.
- WELD BEVELED SUB furnished for Kelly connection.

STATIC LOAD CAPACITY	ROTATING LOAD CAP. @ 35 RPM	WORKING PRESSURE	HOSE CONNECTION	WT/LB	WORKING LENGTH
175,000 LBS.	80,000 LBS.	To 1500 PSI	6” FLANGE	775	60”

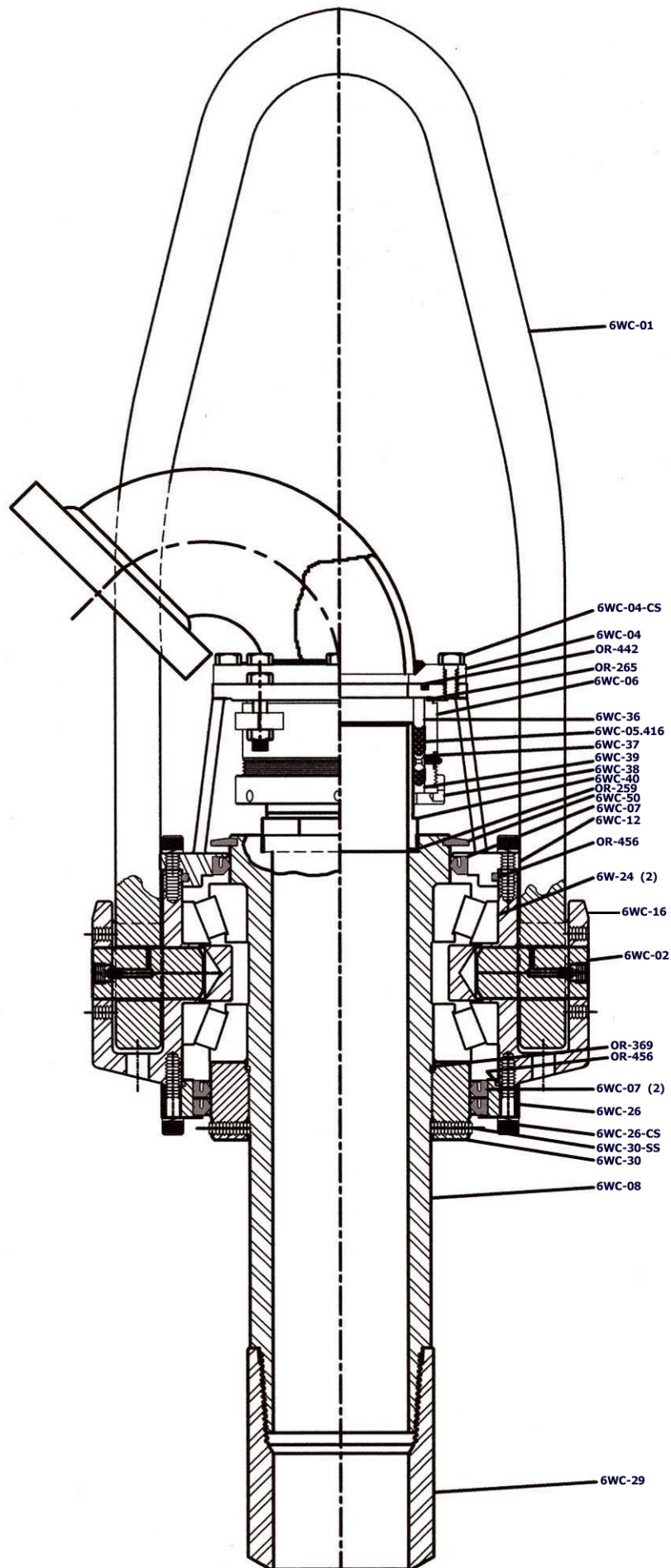
#### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>6WC-5000-XX</b>	WESTERN SWIVEL, 6” WATERCOURSE, 6” FLANGE HOSE CONN. WITH 2” NPT FEMALE AIR LINE CONN. WITH 6” MODIFIED LH PIN LOWER CONNECTION FURNISHED WITH SAVER SUB, BEVELED FOR WELDING, DRILLED FOR TORQUE FLANGES			
6WC-01	BAIL	105.00	1	
6WC-02	BAIL PINS	8.00	2	
6WC-02A	BAIL PIN RETAINER	1.00	2	
6WC-04	GOOSENECK	75.00	1	
6WC-04-CS	CAP SCREWS W/LOCK WASHER (GOOSENECK)	.50	8	
6WC-05	PACKING SET	2.00	Option	
6WC-05-416	PACKING SET (LOW PRESSURE)	2.00	1	
6WC-06	PACKING BOX	12.00	1	
6WC-07	HOUSING SEAL	2.00	3	
6WC-08	SPINDLE	125.00	1	
6WC-12	BONNET	75.00	1	
6WC-12-CS	CAP SCREW W/LOCK WASHER (BONNET)	.50	8	
6WC-16	BEARING HOUSING	120.00	1	
6WC-24	MAIN BEARING	60.00	2	
6WC-26	LOWER OIL BOX	15.00	1	
6WC-26-CS	CAP SCREW W/LOCK WASHER (LOWER OIL BOX)	.20	6	
6WC-29	SUB BEVELED FOR WELDING	60.00	1	
6WC-30	BEARING ADJUSTING NUT	8.00	1	
6WC-30-SS	SET SCREW (BRG. ADJUSTING NUT)	.20	4	
6WC-36	PACKING GLAND	2.00	1	
6WC-37	LANTERN RING	2.00	1	
6WC-38	PACKING ADJUSTING GLAND	7.00	1	
6WC-39	PACKING SEAT RING	1.50	1	
6WC-40	WASHPIPE	8.00	1	
OR-259	O’RING (WASHPIPE)	.10	1	
OR-369	O RING (SPINDLE/BRG ADJ NUT)	.10	1	
OR-265	O’RING (PACKING BOX)	.10	1	
OR-456	O’RING (LWR. OIL BOX, BONNET)	.10	2	
OR-442	O’RING (GOOSENECK)	.10	1	
6WC-41	SPANNER WRENCH, WASHPIPE	6.00	1	
6WC-42	TORQUE FLANGES	5.20	Option	
6WC-50	SLINGER RING	.25	1	

Other sizes of connections available, please consult factory.

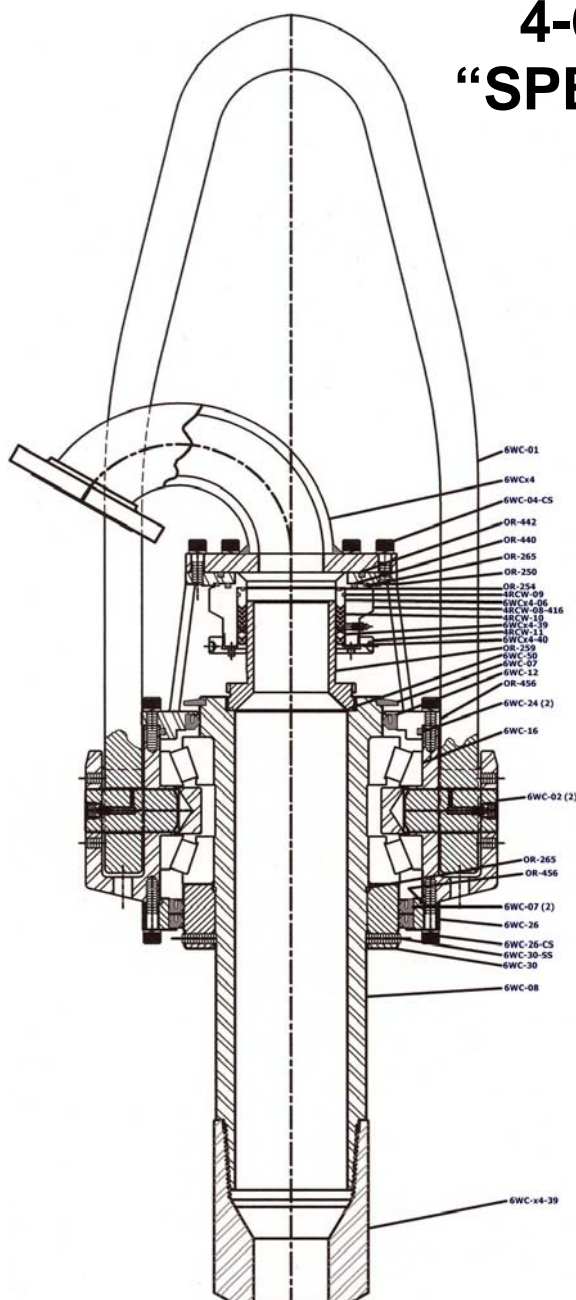
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 4-6WC SWIVEL “SPECIAL SWIVEL”

The 4-6WC is designed for the Water Well Irrigation, and the Construction Drilling Market. This compact swivel has a 4" ID but can be converted to a 6" ID with an additional packing capsule and gooseneck. This unit can be used for both conventional and reverse circulation drilling.



- Large 4" watercourse
- Quick change packing box
- Equal hoisting and pulldown capacity
- Adjustable bearings and packing
- 2" female airline connection
- Weld beveled sub

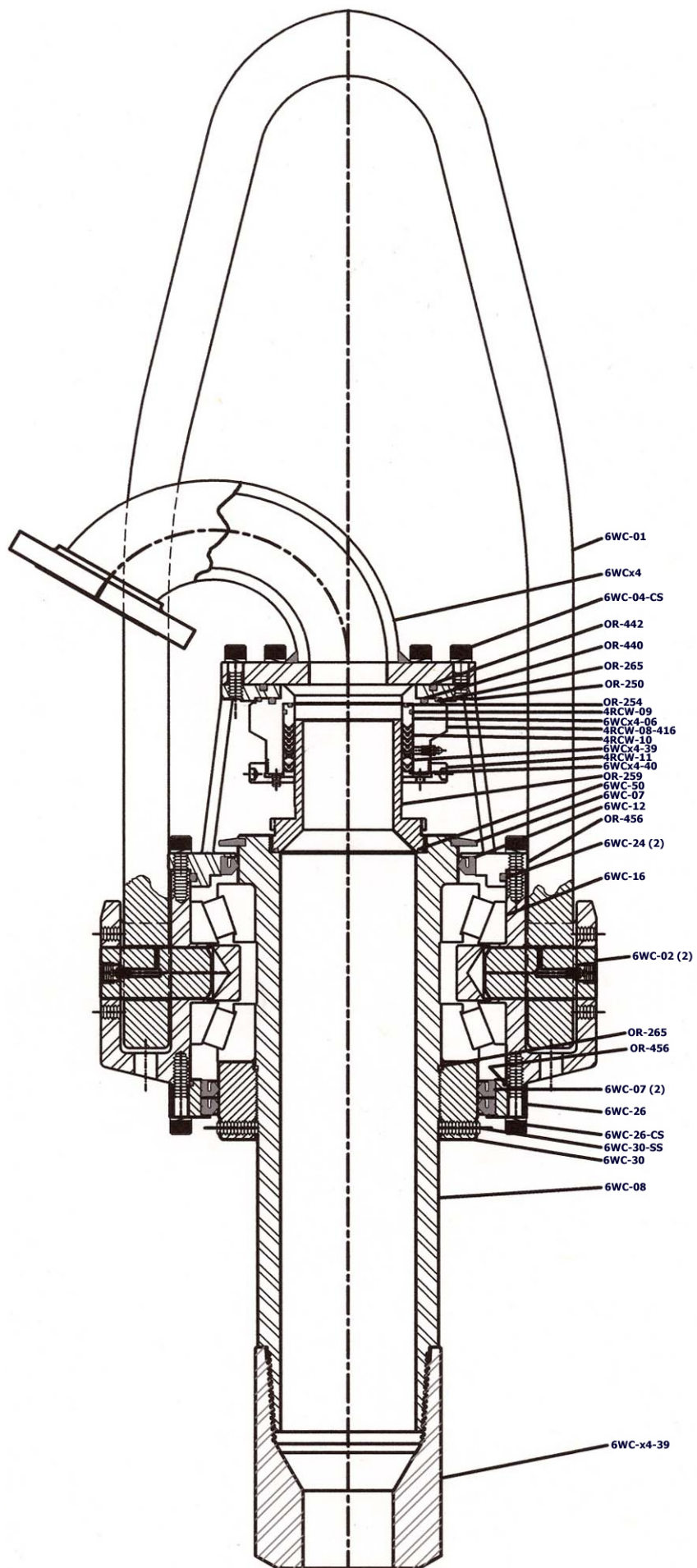
STATIC LOAD CAPACITY	ROTATING LOAD CAP. @ 35 RPM	WORKING PRESSURE	HOSE CONNECTION	WT/LB
175,000 LBS.	80,000 LBS.	To 1500 PSI	4", 150# FLANGE	775

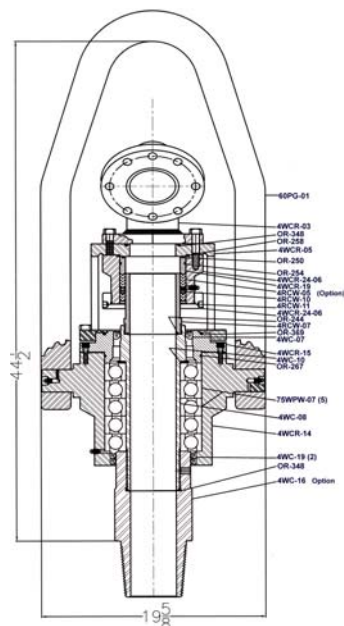
### PARTS LIST

PART NUMBER	DESCRIPTION	QTY. REQ.	
4-6WC-5001-XX	WESTERN SWIVEL, 4" WATERCOURSE, 4" FLANGE HOSE CONN. WITH 2" NPT FEMALE AIR LINE CONN. WITH 6" MODIFIED LH PIN LOWER CONNECTION FURNISHED WITH SAVER SUB, BEVELED FOR WELD (LIMITED TO 9 1/2" OD)		

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 4WCR

- Fluid Passage – 4"
- Adjustable Chevron (V-Ring) Packing
- Heavy Duty angular contact ball bearings
- Grease lubricated packing and bearings
- For conventional and airlift drilling
- Trunion pins available for pulldown and/or mounting

### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
44 1/2	19 5/8		4" 150 Flange	5 1/2 Full Hole	4	TO 1500 PSI

### WEIGHT CAPACITY

STATIC LOAD – 100,000 LBS	ROTATING LOAD – 60,000 LBS @ 30 RPM
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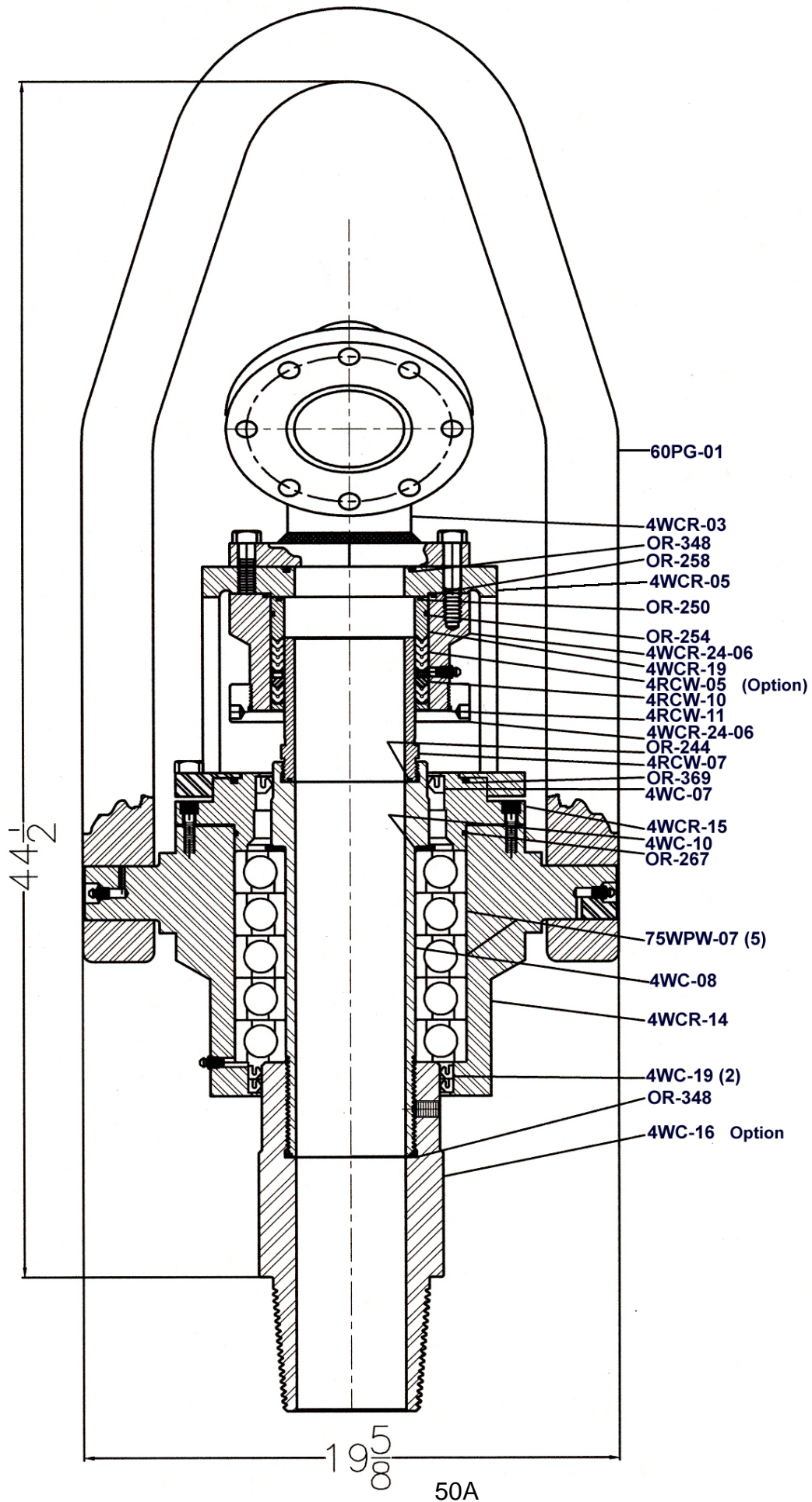
### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>4WCR-5040-XX</b>	WESTERN SWIVEL, 4" WATERCOURSE, 4" FLANGED HOSE CONNECTION, 2" NPT FEMALE AIR LINE PASSAGE, WITH 5 1/2" FULL HOLE LH PIN LOWER CONNECTION			
4RCW-08	PACKING SET		1	
4RCW-08-416	PACKING SET (LOW PRESSURE)		OPTION	
4RCW-07	WASHPIPE		1	
4RCW-10	RING, LANTERN		1	
4RCW-11	RING, PACKING SEAT		1	
4WC-07	SEAL, UPPER		1	
4WC-08	SPINDLE		1	
4WC-10	SHIELD, BEARING		1	
4WC-16-MG-LP	LOWER CONNECTION, 5 1/2" FH LH PIN		1	
4WC-19	SEAL, LOWER		2	
4WCR-03	GOOSENECK, 2" NPT AIR, 4" FLANGE		1	
4WCR-05	BONNET		1	
4WCR-14	HOUSING, BEARING		1	
4WCR-15	ADAPTER (HOUSING/BONNET)		1	
4WCR-19	GLAND, PACKING		1	
4WCR-06	PACKING BOX		1	
4WCR-24	RING, PACKING ADJUSTING		1	
60PG-01	BAIL		1	
75WPW-07	BEARINGS		5	
OR-348	O RING		2	
OR-244	O RING		1	
OR-250	O RING		1	
OR-254	O RING		1	
OR-267	O RING		1	
OR-369	O RING		1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.

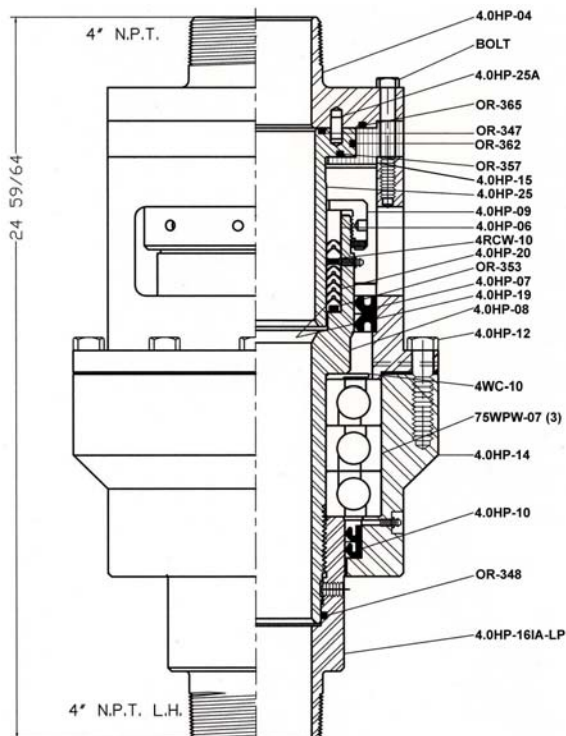






## 4.0HP “SPECIAL SWIVEL”

- High pressure rotating head
- 4" Fluid passage
- Adjustable Chevron V-ring packing
- Grease lubricated packing and bearings
- Floating washpipe (for better packing life)
- Alloy steel construction
- For directional drilling market
- Easy field service when necessary



### TECHNICAL DATA

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
25"			4" NPT	4" NPT	4"	TO 2500 PSI

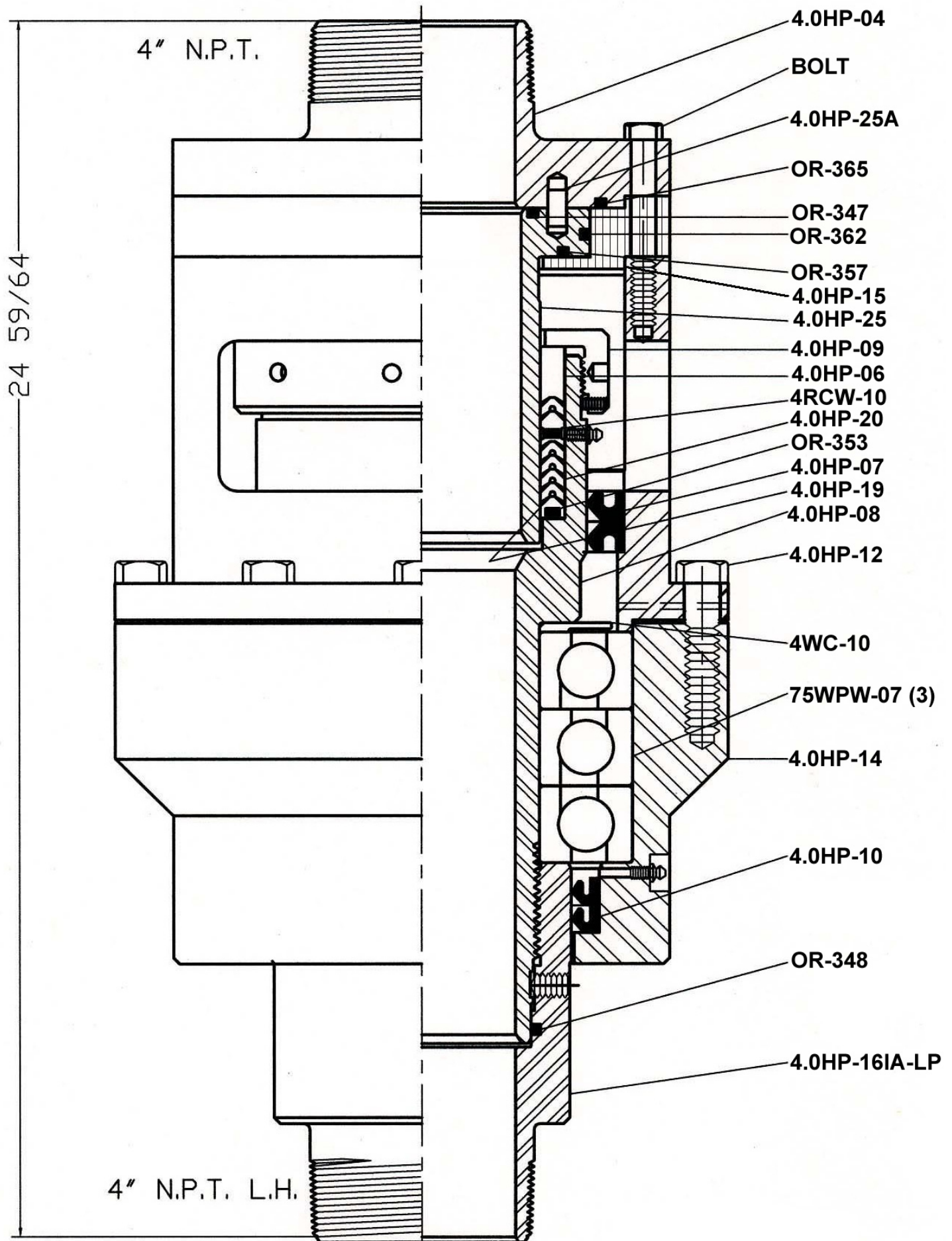
**WEIGHT CAPACITY  
DESIGNED FOR PRESSURE ONLY**

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LBS	QTY. REQ.	PRICE
<b>4.0HP-9600-01</b>	WESTERN ROTATING HEAD, 4" NPT MALE HOSE CONNECTION, WITH 4" NPT LH MALE LOWER CONNECTION			CONSULT
4.0HP-04	GOOSENECK, 4" NPT MALE		1	CONSULT
4.0HP-06	PACKING SEAT RING		1	CONSULT
4.0HP-07	UPPER HOUSING SEAL		2	CONSULT ea
4.0HP-08	BEARING SPINDLE		1	CONSULT
4.0HP-09	PACKING ADJUSTING GLAND		1	CONSULT
4.0HP-10	LOWER HOUSING SEAL		2	CONSULT ea
4.0HP-12	BONNET		1	CONSULT
4.0HP-14	BEARING HOUSING		1	CONSULT
4.0HP-15	LOCK RING (WASHPIPE/GOOSENECK)		1	CONSULT
4.0HP-16IA-LP	LOWER CONNECTION, 4" NPT LH PIN		1	CONSULT
4.0HP-19	PACKING GLAND		1	CONSULT
4.0HP-20	PACKING SET		1	CONSULT
4.0HP-25	WASHPIPE		1	CONSULT
4.0HP-25A	DOWELLS, WASHPIPE		2	CONSULT ea
4RCW-10	LANTERN RING		1	CONSULT
4WC-10	BEARING SHIELD		1	CONSULT
75WPW-07	BEARING		3	CONSULT ea
OR-347	O-RING (WASHPIPE)		1	CONSULT
OR-348	O-RING (THREAD SEAL)		1	CONSULT
OR-353	O-RING (PACKING GLAND)		1	CONSULT
OR-357	O-RING (WASHPIPE)		1	CONSULT
OR-362	O-RING (WASHPIPE)		1	CONSULT
OR-365	O-RING (GOOSENECK)		1	CONSULT

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 15 WX

- For WATER, GEOPHYSICAL, and MONITORING well drilling
- Light Weight
- Alloy Steel construction for strength
- Large Watercourse
- For Pulldown or Kelly Bar machines
- Flexible BAIL or ELEVATOR SHANK available
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available
- Choice of lower connection threads
- Designed for easy field service and maintenance

### TECHNICAL DATA

MODEL #	LENGTH	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING PRESSURE	BAIL OPENING
15WX	33"	95	2" NPT	2-7/8" OD 8-V LH	2" ID	To 300 PSI	3-3/4" X 8"

### SAFE WEIGHT LOADS

MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
15WX	50,000 LBS.	27,000 LBS. @ 100 RPM	2,700 FT	1,800 FT	----	----

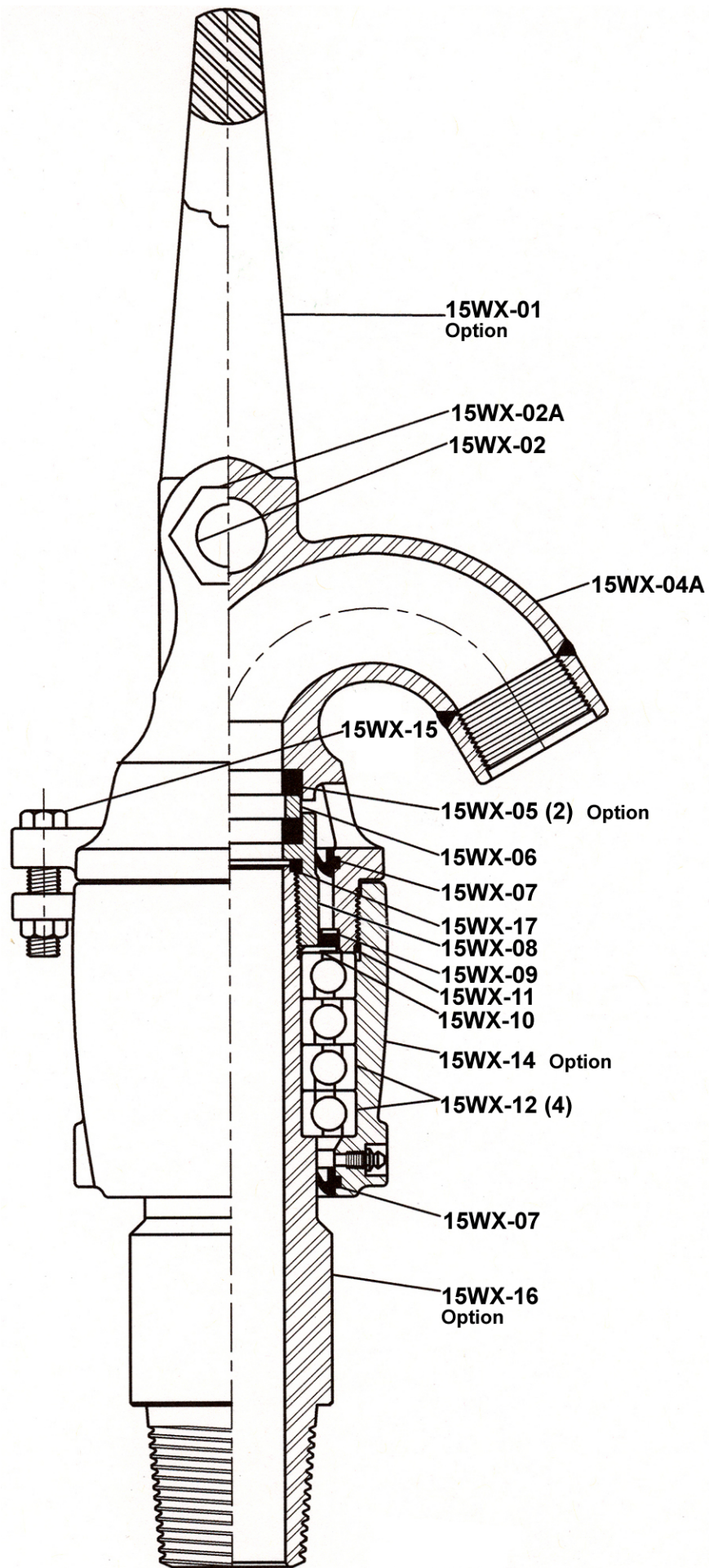
### PARTS LIST

PART NO.	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>15WX-3010-XX</b>	WESTERN SWIVEL, LESS BAIL, 2" NPT FEMALE HOSE CONNECTION AND 2 7/8" OD 8-V LEFT HAND PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR SPECIAL LOWER CONNECTION			
	ADD FOR TRUNNION PIN			
15WX-01	BAIL	16.00	1	
15WX-02	BAIL PIN	3.00	1	
15WX-02A	BAIL PIN NUT	.50	2	
15WX-04A	GOOSENECK, 2" NPT FEMALE HOSE CONNECTION	28.00	1	
15WX-05	+ PACKING	.25	2	
15WX-05-90	PACKING, 90 DURO HIGH PRESSURE	.25	Option	
15WX-05V	PACKING, VITON	.25	Option	
15WX-06	+ WEARBUSHING	.50	1	
15WX-07	+ HOUSING SEALS	.12	2	
15WX-07V	HOUSING SEALS, VITON	.12	Option	
15WX-08	SPINDLE NUT	3.50	1	
15WX-09	+ SHIELD SEAL	.25	1	
15WX-10	+ BEARING SHIELD	.37	1	
15WX-11	BEARING RETAINER WIRE	.12	1	
15WX-12	+ BEARINGS, DOWNTHRUST/UPTHRUST	5.00	4	
15WX-14	BEARING HOUSING	16.00	1	
15WX-14A	BEARING HOUSING, WITH (2) TRUNNION PINS	24.00	Option	
15WX-15	LOCK SCREW AND NUT, BEARING HOUSING	.25	1	
15WX-16GD-LP	SPINDLE, 2 7/8" OD 8-V LH PIN	15.00	1	
15WX-16GE-LP	SPINDLE, 2 7/8" IF LH PIN	15.00	Option	
15WX-17	+ SPINDLE THREAD SEAL	.06	1	
15WX-40	MAINTENANCE KIT (8) 15WX-05, (1) 15WX-06			
15WX-40R	REPAIR KIT + Included in Repair Kit			

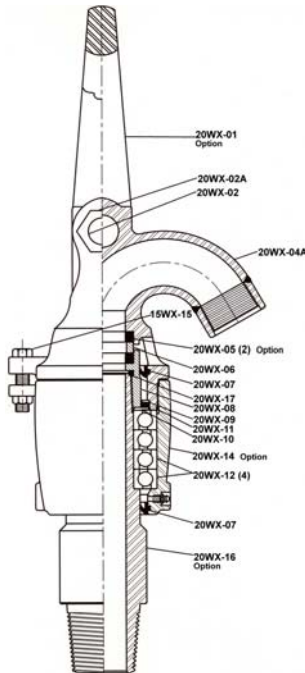
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 20 WX



- For WATER, GEOPHYSICAL, and MONITORING well drilling
- Light Weight
- Alloy Steel construction for strength
- Large Watercourse
- For Pulldown or Kelly Bar machines
- Flexible BAIL or ELEVATOR SHANK available
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available
- Choice of lower connection threads
- Designed for easy field service and maintenance

### TECHNICAL DATA

MODEL #	LENGTH	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING PRESSURE	BAIL OPENING
20WX	34"	140	2 1/2" NPT	3 1/2" OD 8-V LH	2 1/2" ID	To 300 PSI	4 1/4" X 8"

### SAFE WEIGHT LOADS

MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
20WX	70,000 LBS.	36,000 LBS. @ 100 RPM	3,600 FT	2,400 FT	1,800 FT	----

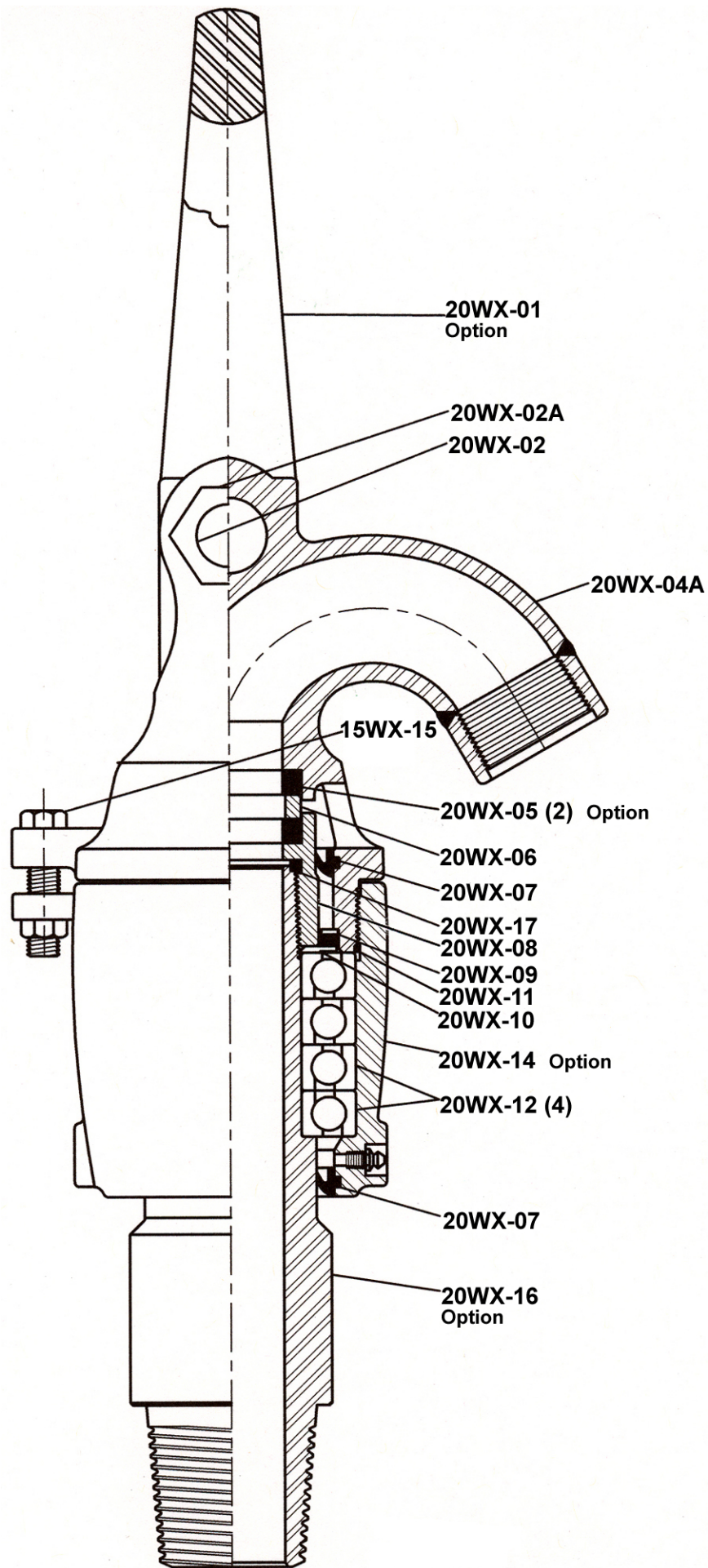
### PARTS LIST

PART NO.	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>20WX-3020-XX</b>	WESTERN SWIVEL, LESS BAIL, 2 1/2" NPT FEMALE HOSE CONNECTION WITH 3 1/2" OD 8V LH PIN / 3 1/2" IF LH PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR PULLDOWN TRUNNION PINS			
	ADD FOR SPECIAL LH PIN LOWER CONNECTION			
20WX-01	BAIL	21.00	1	
20WX-02	BAIL PIN	4.00	1	
20WX-02A	BAIL PIN NUT	.75	2	
20WX-04A	GOOSENECK, 2 1/2" NPT FEMALE HOSE CONNECTION	43.00	1	
20WX-05	+ PACKING	.25	2	
20WX-05-90	PACKING, 90 DURO HIGH PRESSURE	.25	Option	
20WX-05V	PACKING, VITON	.25	Option	
20WX-06	+ WEARBUSHING	1.00	1	
20WX-07	+ HOUSING SEALS	.12	2	
20WX-07V	HOUSING SEALS, VITON	.12	Option	
20WX-08	SPINDLE NUT	4.50	1	
20WX-09	+ SHIELD SEAL	.37	1	
20WX-10	+ BEARING SHIELD	.50	1	
20WX-11	BEARING RETAINER WIRE	.12	1	
20WX-12	+ BEARINGS	4.25	4	
20WX-14	BEARING HOUSING	28.00	1	
20WIR-14A	BEARING HOUSING, 7 1/2" SHOULDERS / 2" TRUNNION PINS	37.00	Option	
20WIR-14B	BEARING HOUSING, 8 5/16" SHOULDERS / 2" TRUNNION PINS	37.00	Option	
15WX-15	LOCK SCREW AND NUT, BEARING HOUSING	.25	1	
20WX-16JD-LP	LOWER CONNECTION, 3 1/2" OD 8-V LH PIN	28.00	1	
20WX-16JE-LP	LOWER CONNECTION, 3 1/2" IF LH PIN	34.00	Option	
20WX-16GE-LP	LOWER CONNECTION, 2 7/8" IF LH PIN	33.00	Option	
20WX-17	+ SPINDLE THREAD SEAL	.06	1	
20WX-40	MAINTENANCE KIT (8) 20WX-05, (1) 20WX-06			
20WX-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 30 WX

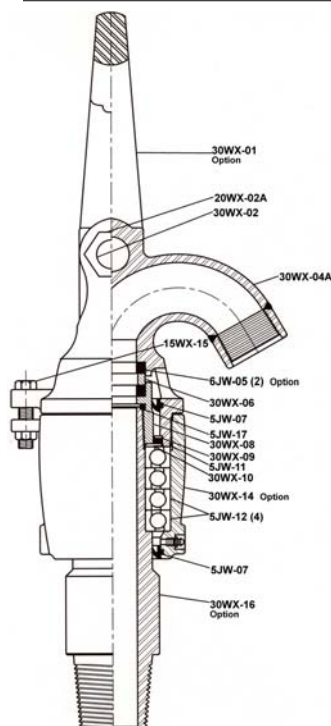
- For WATER, GEOPHYSICAL, and MONITORING well drilling
- Light Weight
- Alloy Steel construction for strength
- Large Watercourse
- For Pulldown or Kelly Bar machines
- Flexible BAIL or ELEVATOR SHANK available
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available
- Choice of lower connection threads
- Designed for easy field service and maintenance

### TECHNICAL DATA

MODEL #	LENGTH	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING PRESSURE	BAIL OPENING
30WX	39"	205	3" NPT	4-1/2" OD 8-V LH	3" ID	To 300 PSI	5" X 8"

### SAFE WEIGHT LOADS

MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
30WX	90,000 LBS.	50,000 LBS. @ 100 RPM	5,000 FT	3,300 FT	2,600 FT	2,100 FT

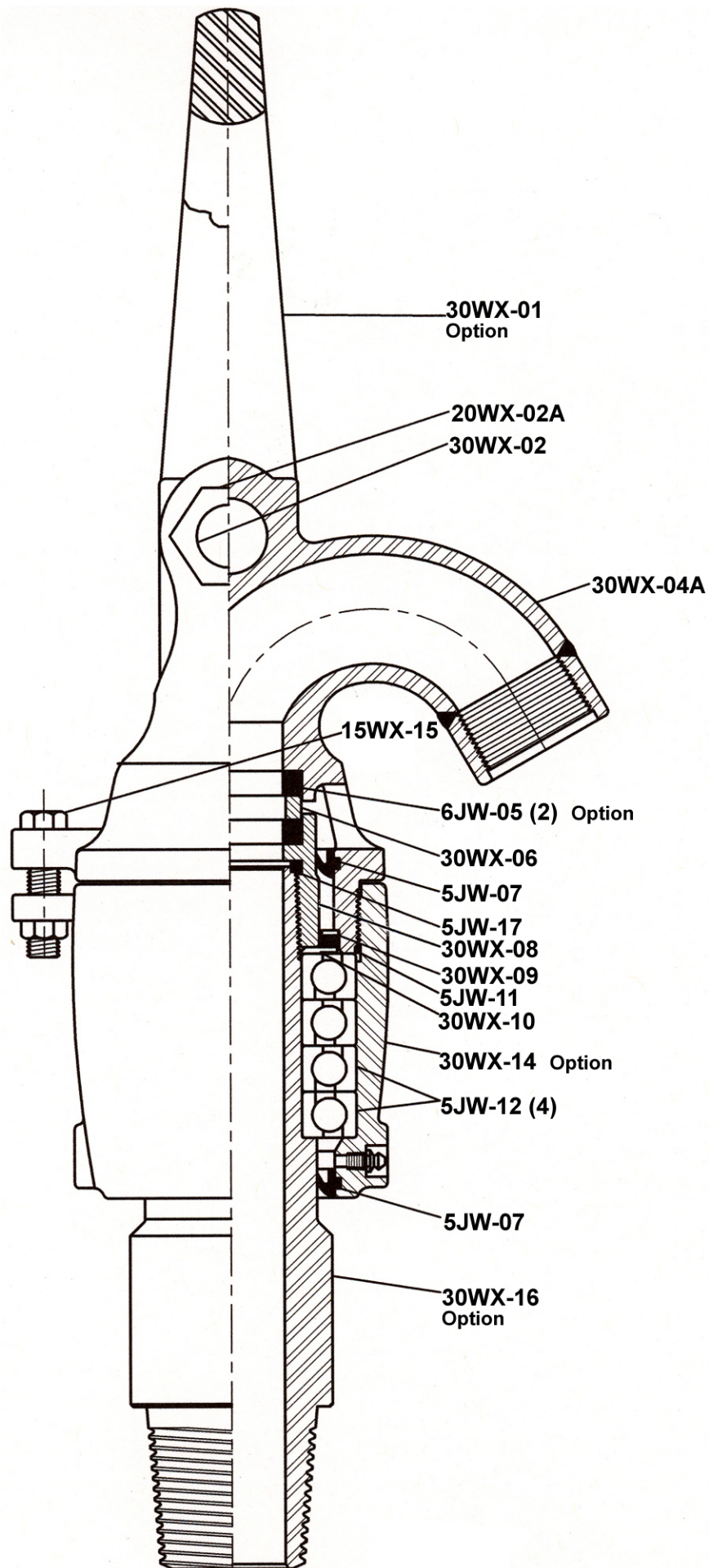


### PARTS LIST

PART NO.	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>30WX-3030-XX</b>	WESTERN SWIVEL, LESS BAIL, 3" NPT FEMALE HOSE CONNECTION WITH 4 1/2" OD 8-V LH PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR PULLDOWN TRUNNION PINS			
	ADD FOR SPECIAL LOWER CONNECTION			
	ADD FOR ELEVATOR SHANK (3 1/2" OR SMALLER)			
30WX-01	BAIL (5" X 8")	26.00	1	
30WX-01E	ELEVATOR SHANK (3 1/2" OR SMALLER)	71.00	Option	
30WX-02	BAIL PIN	6.50	1	
20WX-02A	BAIL PIN NUT	.75	2	
30WX-04A	GOOSENECK, 3" NPT FEMALE HOSE CONNECTION	43.00	1	
6JW-05	+ PACKING	.25	2	
6JW-05-90	PACKING, 90 DURO (HIGH PRESSURE)	.25	Option	
6JW-05V	PACKING VITON	.25	Option	
30WX-06	+ WEARBUSHING	2.00	1	
5JW-07	+ HOUSING SEAL	.25	2	
5JW-07V	HOUSING SEAL VITON	.25	Option	
30WX-08	SPINDLE NUT	6.00	1	
30WX-09	+ SHIELD SEAL	.50	1	
30WX-10	+ BEARING SHIELD	.75	1	
5JW-11	BEARING RETAINER WIRE	.12	1	
5JW-12	+ BEARINGS	8.00	4	
30WX-14	BEARING HOUSING	42.00	1	
30WX-14A	BEARING HOUSING WITH PINS, 2" OD, 8 15/16" SHOULDERS	57.00	Option	
15WX-15	HOUSING BOLT AND NUT	.25	1	
30WX-16KD-LP	SPINDLE, 4 1/2" OD 8-V LH PIN	37.00	1	
30WX-16JG-LP	SPINDLE, 3 1/2" FULL HOLE LH PIN	37.00	Option	
30WX-16JE-LP	SPINDLE, 3 1/2" IF LH PIN	39.25	Option	
30WX-16XJE-LP	SPINDLE, 3 1/2" IF LH PIN (SHORTEN PIN, FULL 3" ID)	38.50	Option	
5JW-17	+ SPINDLE THREAD SEAL	.06	1	
30WX-40	MAINTENANCE KIT (8) 6JW-05, (1) 30 WX-06			
30WX-40R	REPAIR KIT + Included in Repair Kit			

Other sizes of connections available, please consult factory.

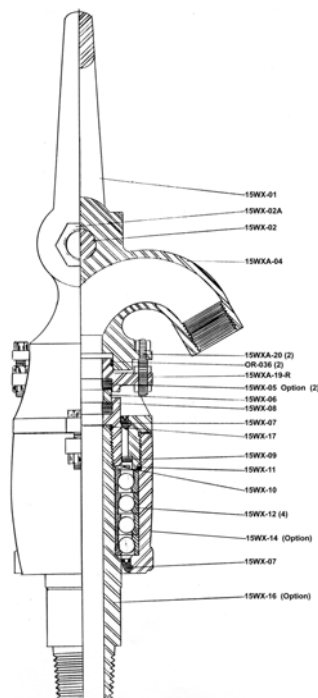
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# 15 WXA

## Adjustable Packing Swivel



- For WATER, GEOPHYSICAL, and MONITORING well drilling
- Light Weight
- Alloy Steel construction for strength
- Large Watercourse
- For Pulldown or Kelly Bar machines
- Flexible BAIL or ELEVATOR SHANK available
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available
- Choice of lower connection threads
- Designed for easy field service and maintenance

### TECHNICAL DATA

LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING OPENING	BAIL OPENING
36"	125	2" NPT	2-7/8" OD 8-V LH	MAX 2" ID	To 300 PSI	3-3/4" X 8"

### SAFE WEIGHT LOADS

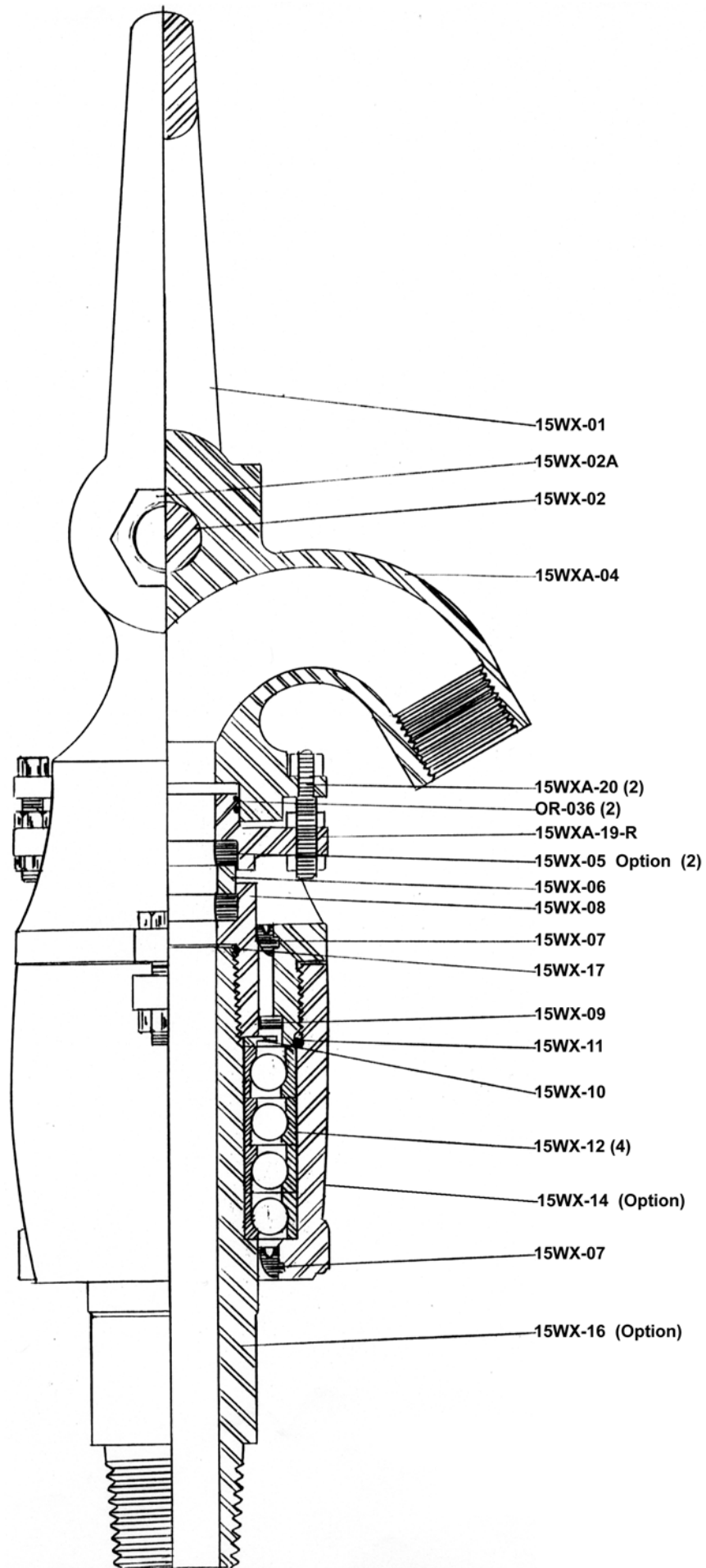
STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
		2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
50,000 LBS.	27,000 LBS. @ 100 RPM	2,700 FT	1,800 FT	----	----

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LB EACH	QTY. REQ.	
<b>15WXA-3010-XX</b>	WESTERN SWIVEL, LESS BAIL, 2" NPT FEMALE HOSE CONNECTION, WITH ADJUSTABLE PACKING, WITH 2 7/8" OD 8-V LH PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR "SPECIAL SPINDLE"			
	ADD FOR TRUNNION PINS			
15WX-01	BAIL	16.00	OPTION	
15WX-01E	ELEVATOR SHANK	38.00	OPTION	
15WX-02	BAIL PIN	3.50	1	
15WX-02A	BAIL PIN NUT	.50	2	
15WXA-04A	GOOSENECK, 2" NPT FEMALE	43.00	1	
15WX-05	+ PACKING	.25	2	
15WX-05-90	PACKING, 90 DURO (RED)	.25	OPTION	
15WX-05V	PACKING, VITON	.25	OPTION	
15WX-06	+ WEARBUSHING	.50	1	
15WX-07	+ HOUSING SEAL	.12	2	
15WX-07V	HOUSING SEAL, VITON	.12	OPTION	
15WX-08	SPINDLE NUT	3.50	1	
15WX-09	+ SHIELD SEAL	.25	1	
15WX-10	+ BEARING SHIELD	.37	1	
15WX-11	BEARING RETAINER WIRE	.12	1	
15WX-12	+ BEARINGS	2.75	4	
15WX-14	BEARING HOUSING	16.00	1	
15WX-14A	BEARING HOUSING, 2" OD PINS	28.00	OPTION	
15WX-15	LOCK SCREW AND NUT, BEARING HOUSING	.25	1	
15WX-16GD-LP	SPINDLE, 2 7/8" OD 8V LH PIN	15.00	1	
15WX-16GE-LP	SPINDLE, 2 7/8" IF LH PIN	23.00	OPTION	
15WX-17	+ SPINDLE THREAD SEAL	.06	1	
15WXA-19-R	PACKING ADJUSTING GLAND	8.25	1	
15WXA-20	ADJUSTING SCREW W/NUTS	1.00	2	
OR-036	+ O-RING, ADJUSTING GLAND	.01	2	
15WX-40	MAINTENANCE KIT (8) 15WX-05, (1) 15WX-06			
15WXA-40R	REPAIR KIT, + INCLUDED IN REPAIR KIT			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.

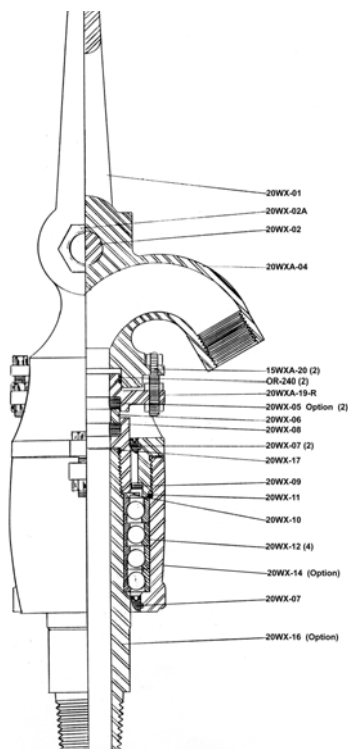




## 20 WXA

### Adjustable Packing Swivel

- For WATER, GEOPHYSICAL, and MONITORING well drilling
- Light Weight
- Alloy Steel construction for strength
- Large Watercourse
- For Pulldown or Kelly Bar machines
- Flexible BAIL or ELEVATOR SHANK available
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available
- Choice of lower connection threads
- Designed for easy field service and maintenance



#### TECHNICAL DATA

MODEL #	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING OPENING	BAIL OPENING
20WXA	38"	165	2-1/2" NPT	3-1/2" OD 8-V LH	MAX 2-1/2" ID	To 300 PSI	4-1/4" X 8"

#### SAFE WEIGHT LOADS

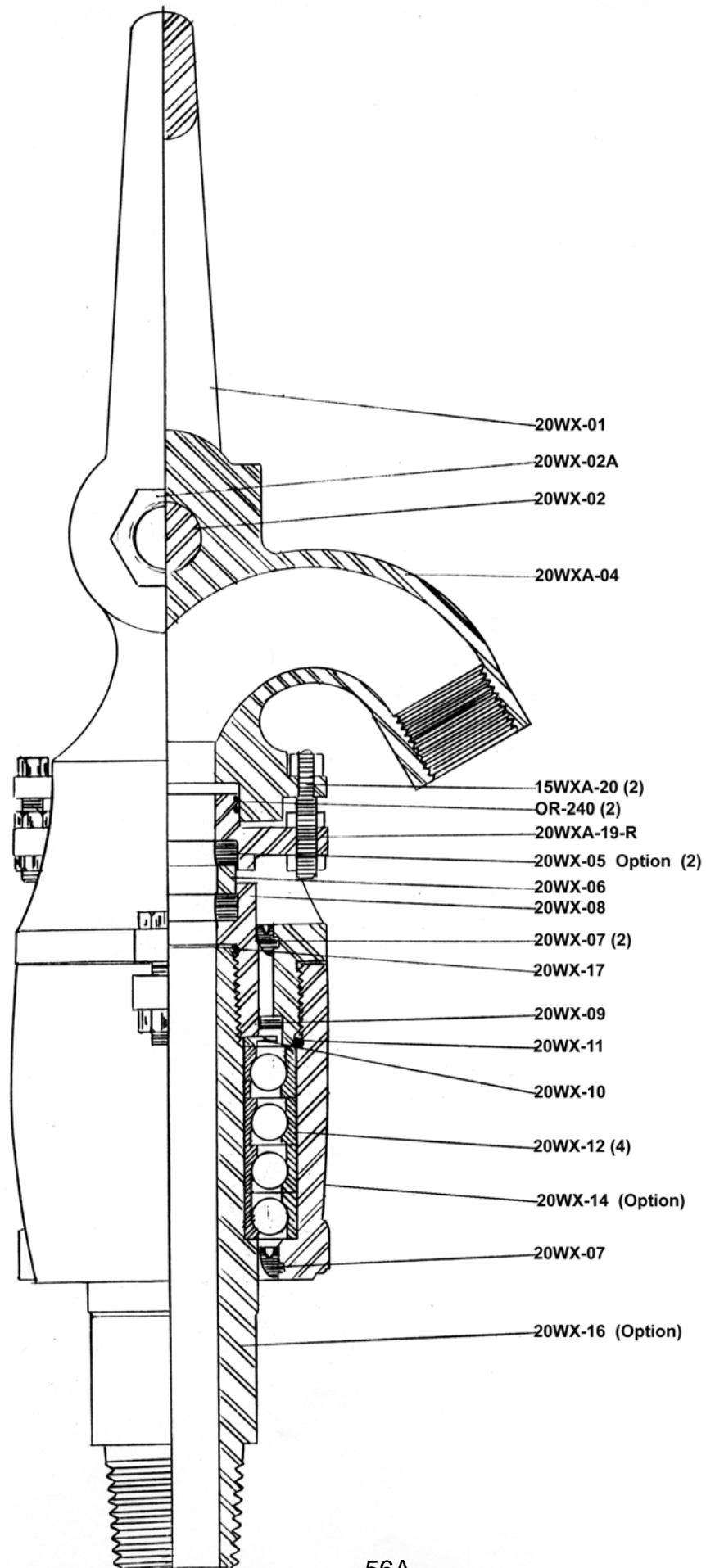
MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
20WXA	70,000 LBS.	36,000 LBS. @ 100 RPM	3,600 FT	2,400 FT	1,800 FT	---

### PARTS LIST

PART NUMBER	DESCRIPTION	WT/LB EACH	QTY. REQ.	
<b>20WXA-3120-XX</b>	WESTERN SWIVEL, LESS BAIL, 2 1/2" NPT FEMALE HOSE CONNECTION, WITH ADJUSTABLE PACKING, WITH 3 1/2" OD 8-V / 3 1/2" IF LH PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR "SPECIAL SPINDLE"			
	ADD FOR TRUNNION PINS			
20WX-01	BAIL	21.00	1	
20WX-01E	ELEVATOR SHANK	42.00	OPTION**	
20WX-02	BAIL PIN	4.00	1	
20WX-02A	BAIL PIN NUT	.75	2	
20WXA-04A	GOOSENECK, 2 1/2" NPT FEMALE	58.00	1	
20WX-05	+ PACKING	.25	2	
20WX-05-90	PACKING, 90 DURO (RED)	.25	OPTION	
20WX-05V	PACKING, VITON	.25	OPTION	
20WX-06	+ WEARBUSHING	1.00	1	
20WX-07	+ HOUSING SEAL	.12	2	
20WX-07V	HOUSING SEAL, VITON	.12	OPTION	
20WX-08	SPINDLE NUT	4.50	1	
20WX-09	+ SHIELD SEAL	.37	1	
20WX-10	+ BEARING SHIELD	.50	1	
20WX-11	BEARING RETAINER WIRE	.12	1	
20WX-12	+ BEARINGS	4.25	4	
20WX-14	BEARING HOUSING	37.00	1	
20WIR-14A	BEARING HOUSING, 7 1/2" SHOULDERS 2" PIN TRUNNION PINS	43.00	OPTION	
20WIR-14B	BEARING HOUSING, 8 5/16" SHOULDERS 2" PIN TRUNNION PINS	45.00	OPTION	
15WX-15	LOCK SCREW WITH NUT, BEARING HOUSING	.25	1	
20WX-16JD-LP	SPINDLE, 3 1/2" OD 8-V LH PIN	28.00	1	
20WX-16JE-LP	SPINDLE, 3 1/2" IF LH PIN	34.00	OPTION**	
20WX-16GE-LP	SPINDLE, 2 7/8" IF LH PIN	31.00	OPTION**	
20WX-17	+ SPINDLE THREAD SEAL	.06	1	
20WXA-19-R	PACKING ADJUSTING GLAND	7.25	1	
15WXA-20	ADJUSTING SCREW W/NUTS	1.75	2	
OR-240	+ O-RING, ADJUSTING GLAND	.01	2	
20WX-40	MAINTENANCE KIT (8) 20WX-05, (1) 20WX-06			
20WXA-40R	REPAIR KIT, + INCLUDED IN REPAIR KIT			

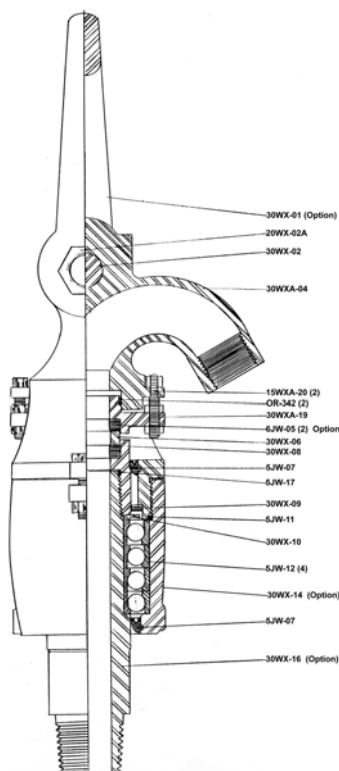
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



# 30 WXA

## Adjustable Packing Swivel



- For WATER, GEOPHYSICAL, and MONITORING well drilling
- Light Weight
- Alloy Steel construction for strength
- Large Watercourse
- For Pulldown or Kelly Bar machines
- Flexible BAIL or ELEVATOR SHANK available
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available
- Choice of lower connection threads
- Designed for easy field service and maintenance

### TECHNICAL DATA

LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING OPENING	BAIL OPENING
41"	225	3" NPT	4-1/2" OD 8-V LH	MAX 3" ID	To 300 PSI	5" X 8"

### SAFE WEIGHT LOADS

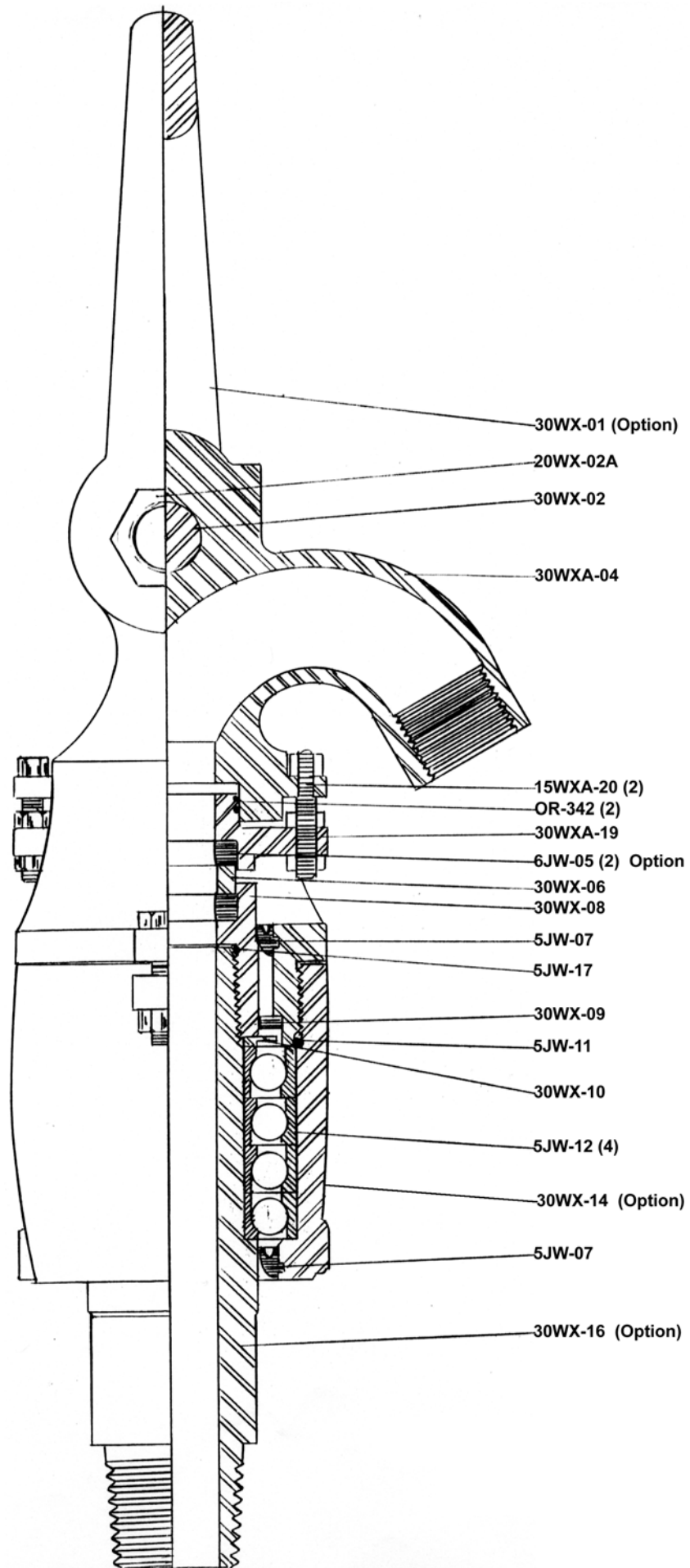
MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
30WXA	90,000 LBS.	50,000 LBS. @ 100 RPM	5,000 FT	3,300 FT	2,600 FT	2,100 FT

### PARTS LIST

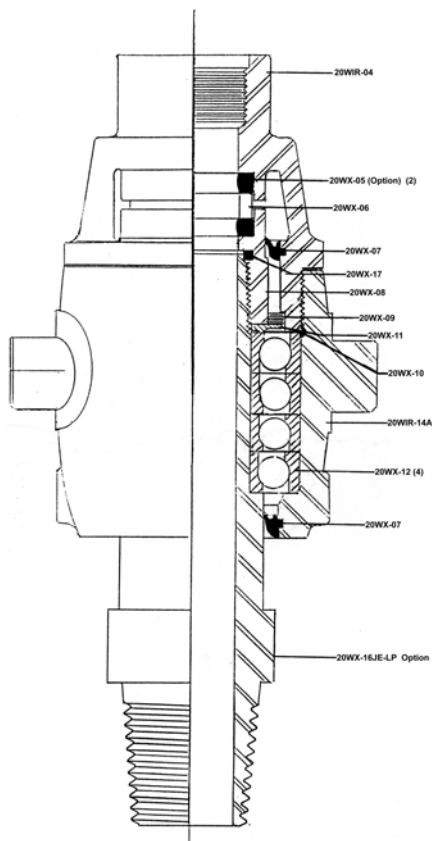
PART NUMBER	DESCRIPTION	WT/LB EACH	QTY. REQ.	
<b>30WXA-3120-XX</b>	WESTERN SWIVEL, LESS BAIL, 2 1/2" NPT FEMALE HOSE CONNECTION, WITH ADJUSTABLE PACKING, WITH 4 1/2" OD 8-V LH PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR ELEVATOR SHANK (3 1/2" OD OR SMALLER)			
	ADD FOR "SPECIAL SPINDLE"			
	ADD FOR TRUNNION PINS			
30WX-01	BAIL	21.00	1	
30WX-01E	ELEVATOR SHANK (3 1/2" OD OR SMALLER)	42.00	OPTION**	
30WX-02	BAIL PIN	4.00	1	
30WX-02A	BAIL PIN NUT	.75	2	
30WXA-04A	GOOSENECK, ADJUSTABLE, 3" NPT FEMALE	58.00	1	
6JW-05	+ PACKING	.25	2	
6JW-05-90	PACKING, 90 DURO (RED)	.25	OPTION	
6JW-05V	PACKING, VITON	.25	OPTION	
30WX-06	+ WEARBUSHING	1.00	1	
5JW-07	+ HOUSING SEAL	.12	2	
5JW-07V	HOUSING SEAL, VITON	.12	OPTION	
30WX-08	SPINDLE NUT	4.50	1	
30WX-09	+ SHIELD SEAL	.37	1	
30WX-10	+ BEARING SHIELD	.50	1	
5JW-11	BEARING RETAINER WIRE	.12	1	
5JW-12	+ BEARINGS	4.25	4	
30WX-14	BEARING HOUSING	37.00	1	
30WX-14A	BEARING HOUSING, 8 15/16" SHOULDERS 2" TRUNNION PINS	43.00	OPTION	
15WX-15	LOCK SCREW WITH NUT, BEARING HOUSING	45.00	1	
30WX-16KD-LP	SPINDLE, 4 1/2" OD 8V LH PIN	.25	1	
30WX-16JG-LP	SPINDLE, 3 1/2" FULL HOLE LH PIN	28.00	OPTION**	
30WX-16JE-LP	SPINDLE, 3 1/2" IF LH PIN	34.00	OPTION**	
30WX-16XJE-LP	SPINDLE, 3 1/2" IF LH PIN (SHORTEN PIN, 3" ID)	31.00	OPTION**	
5JW-17	+ SPINDLE THREAD SEAL	.06	1	
30WXA-19	PACKING ADJUSTING GLAND	7.25	1	
15WXA-20	ADJUSTING SCREW W/NUTS	1.75	2	
OR-342	+ O-RING, ADJUSTING GLAND	.01	2	
30WX-40	MAINTENANCE KIT (8) 6JW-05, (1) 30WX-06			
30WXA-40R	REPAIR KIT, + INCLUDED IN REPAIR KIT			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 20WIR SWIVEL



- For the TH-55 and TH-60 drills
- Alloy steel construction for strength and durability
- For MUD and AIR drilling
- Trunnion pins to 2"
- Thrust ball bearings for supporting pipe load and radial load
- Designed for easy service and field maintenance
- Equal hoisting and pull down load capacity
- Longer Spindle available

### TECHNICAL

MODEL #	PACKING	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN.*	WATER PRESSURE	WORKING OPENING
20WIR	FIXED	20-1/2"	116	3" NPT	3-1/2" IF LH	2-1/2"	To 300 PSI
		37-1/2"	155	3" NPT	3-1/2" IF LH (LONG)	2-1/2"	To 300 PSI

### SAFE WEIGHT LOADS

MODEL #	STATIC LOAD	ROTATING LOAD	DRILL DEPTH	SIZE/WT/FT
20WIR	40,000 LBS.	27,000 LBS. @ 100 RPM	1,800 FT	2-7/8" / 10.4 LBS
			1,400 FT	3-1/2" / 13.3 LBS

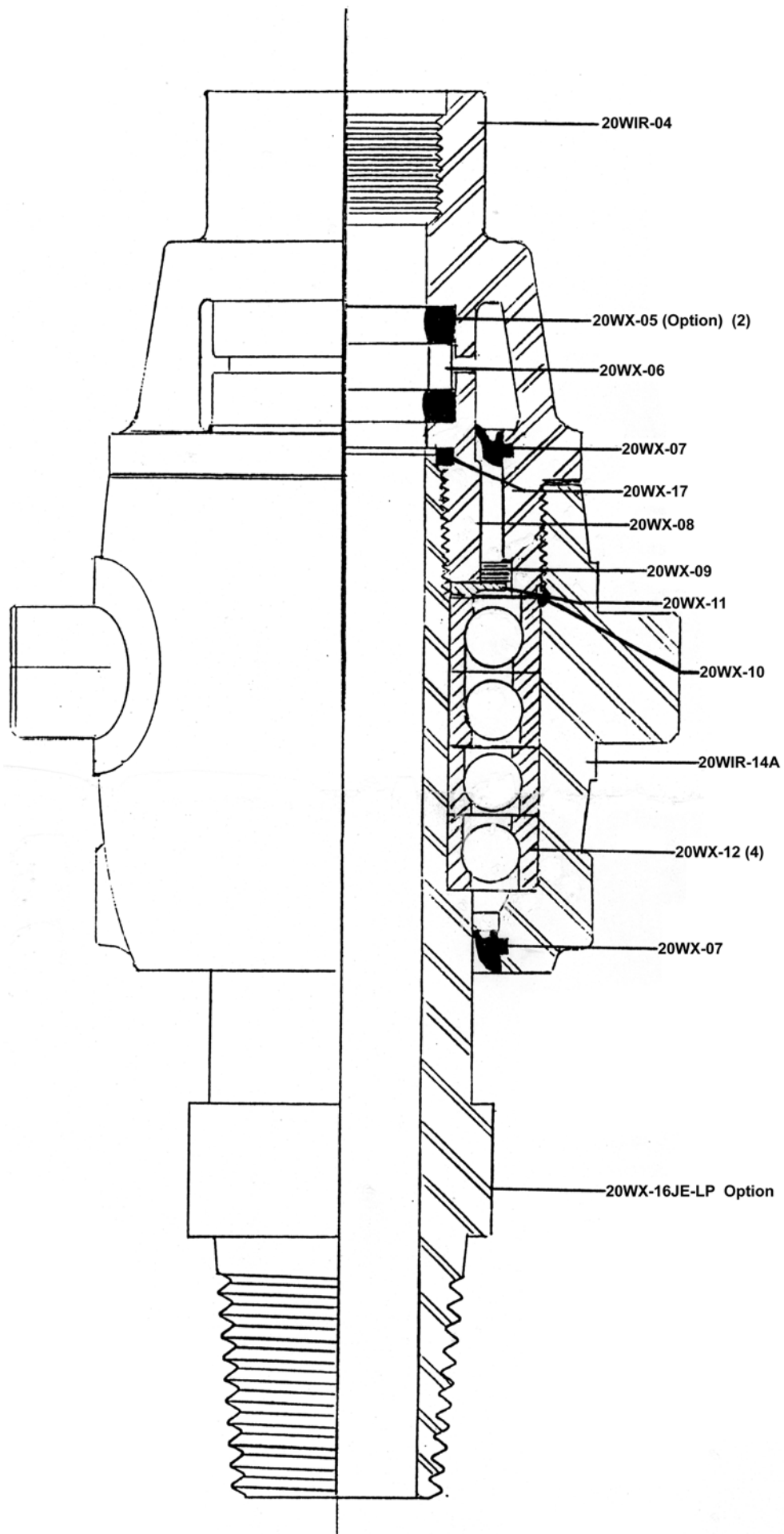
### PARTS LIST

PART NO.	DESCRIPTION	QTY. REQ.	
<b>20WIR-3200-XX</b>	WESTERN SWIVEL, 3" NPT FEMALE HOSE CONNECTION STRAIGHT UP, 2" OD TRUNNION PINS ON 7 1/2" SHOULDER, WITH 3 1/2" IF LH PIN LOWER CONNECTION		
	ADD FOR LONG 3 1/2" IF LH PIN LOWER CONNECTION		CONSULT
20WIR-04	GOOSENECK, 3" NPT FEMALE HOSE CONNECTION	1	
20WX-05	+ PACKING	2	
20WX-05-90	PACKING, 90 DURO (HIGH PRESSURE)	Option	
20WX-05V	PACKING VITON	Option	
20WX-06	+ WEARBUSHING	1	
20WX-07	+ HOUSING SEAL	2	
20WX-07V	HOUSING SEAL, VITON	Option	
20WX-08	SPINDLE NUT	1	
20WX-09	+ SHIELD SEAL	1	
20WX-10	+ BEARING SHIELD	1	
20WX-11	BEARING RETAINER WIRE	1	
20WX-12	+ BEARINGS	4	
20WIR-14A	BEARING HOUSING WITH PINS, 2" OD, 7 1/2" SHOULDERS	1	
15WX-15	LOCK SCREW AND NUT, BEARING HOUSING	1	
20WX-16JE-LP	LOWER CONNECTION, 3 1/2" IF LH PIN	1	
20WX-16XJE-LP	LOWER CONNECTION, LONG 3 1/2" IF LH PIN	Option	
20WX-17	+ SPINDLE THREAD SEAL	1	
20WX-40	MAINTENANCE KIT (8) 20WX-05, (1) 20WX-06		
20WX-40R	REPAIR KIT + Included in Repair Kit		

Other sizes of connections available, please consult factory.

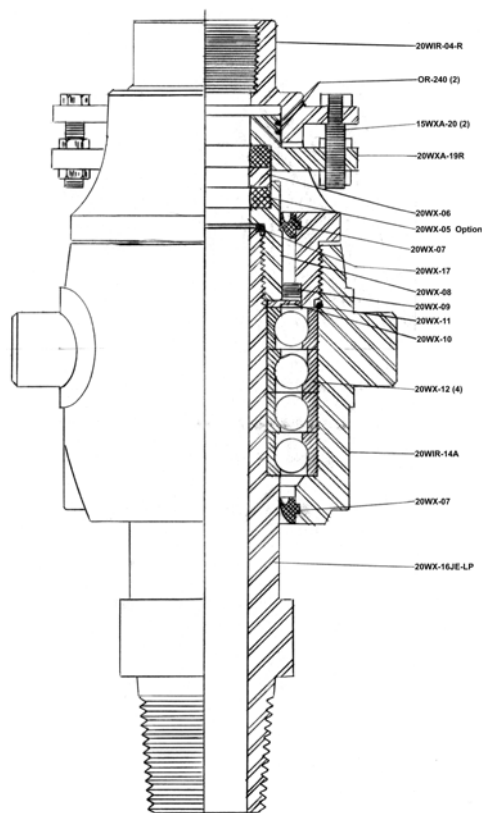
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# 20WIRA SWIVEL

## Adjustable Packing Swivel



- For the TH-55 and TH-60 drills
- Alloy steel construction for strength and durability
- For MUD and AIR drilling
- Trunnion pins to 2"
- Thrust ball bearings for supporting pipe load and radial load
- Designed for easy service and field maintenance
- Equal hoisting and pull down load capacity
- Longer Spindle available
- **ADJUSTABLE PACKING**

### TECHNICAL

MODEL #	PACKING	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN.*	WATER PRESSURE	WORKING OPENING
20WIRA	ADJUSTABLE	24-1/2"	138	3" NPT	3-1/2" IFLH	2-1/2"	To 300 PSI

### SAFE WEIGHT LOADS

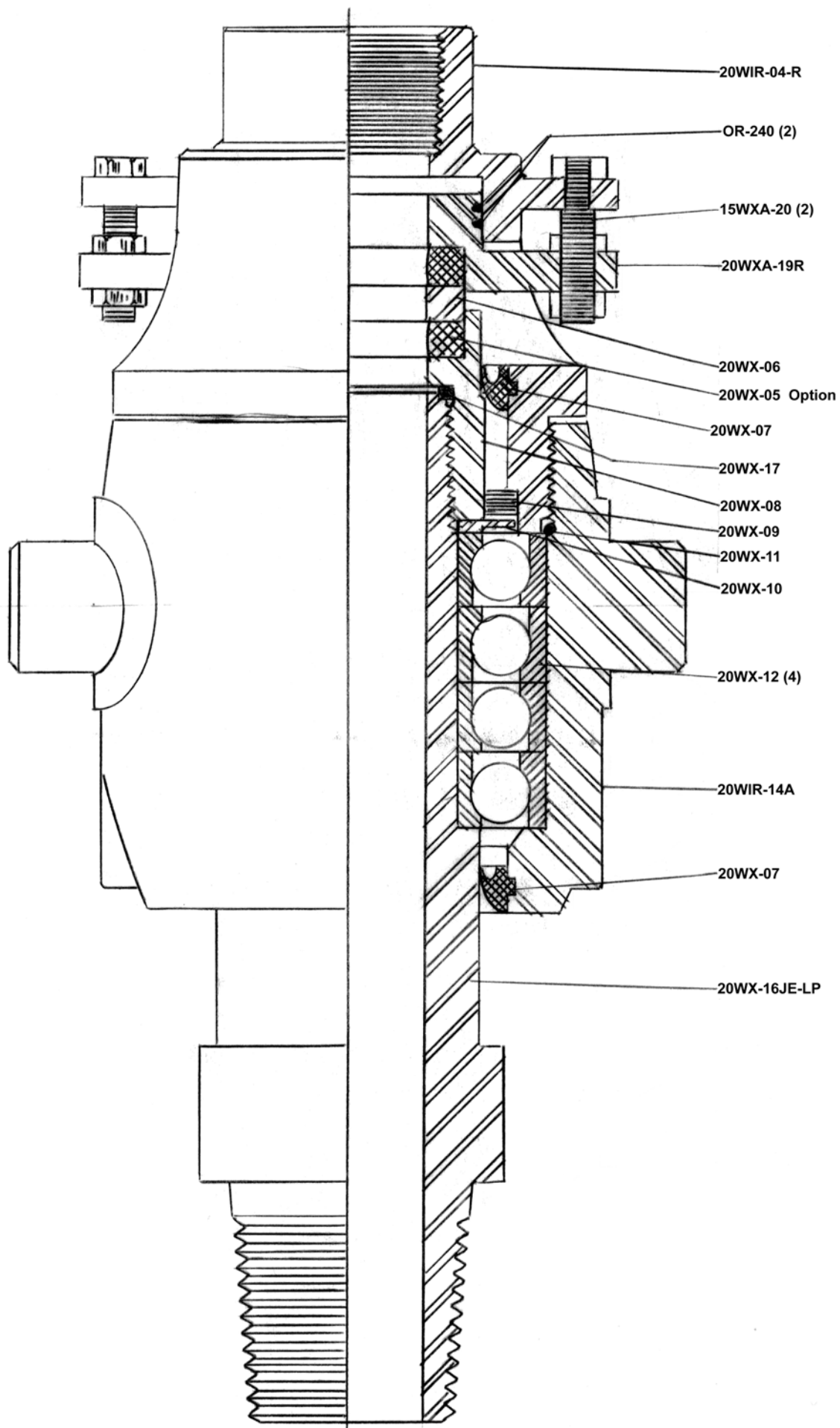
MODEL #	STATIC LOAD	ROTATING LOAD	DRILL DEPTH	SIZE/WT/FT
20WIRA	40,000 LBS.	27,000 LBS. @ 100 RPM	1,800 FT	2-7/8" / 10.4 LBS
			1,400 FT	3-1/2" / 13.3 LBS

### PARTS LIST

PART NO.	DESCRIPTION	QTY. REQ.	
<b>20WIRA-3521-XX</b>	WESTERN SWIVEL, 3" NPT FEMALE HOSE CONNECTION WITH <b>ADJUSTABLE PACKING</b> , TWO (2) 2" OD TRUNNION PINS ON 7 1/2" SHOULDER WITH 3 1/2" IF LH PIN LOWER CONNECTION		
	ADD FOR LONG 3 1/2" IF LH PIN LOWER CONNECTION		
20WIRA-04-R	GOOSENECK	1	
20WX-05	+ PACKING	2	
20WX-05-90	PACKING, 90 DURO	Option	
20WX-06	+ WEARBUSHING	1	
20WX-07	+ HOUSING SEAL	2	
20WX-08	SPINDLE NUT	1	
20WX-09	+ SHIELD SEAL	1	
20WX-10	+ BEARING SHIELD	1	
20WX-11	RETAINER WIRE	1	
20WX-12	+ BEARINGS	4	
20WIR-14A	BEARING HOUSING	1	
15WX-15	LOCK BOLT AND NUT	1	
20WX-16JE-LP	SPINDLE 3 1/2" IF LH PIN	1	
20WX-16XJE-LP	SPINDLE, 3 1/2" IF LH PIN, LONG	Option	
20WX-17	+ SPINDLE THREAD SEAL	1	
20WXA-19-R	ADJUSTING GLAND	1	
15WXA-20	ADJUSTING BOLT	2	
OR-240	+ O RING	2	
20WX-40	MAINTENANCE KIT (8) 20WX-05, (1) 20WX-06	Option	
20WXA-40R	REPAIR KIT + Included in Repair Kit	Option	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



# 15WM



- For Drilling Rigs with Chain or Cable PULL DOWN
- Constructed from alloy steel for durability
- For MUD and AIR drilling
- Can be furnished with bail
- Trunnion Pins to 1-3/4"
- Thrust ball bearing for supporting pipe load and radial load
- Designed for easy service and field maintenance
- Choice of Lower Connection Threads

## TECHNICAL DATA

PACKING	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN.	WORKING PRESSURE	FLUID OPENING
FIXED	19 1/2"	80	2" NPT	2 7/8" IF LH	To 300 PSI	2"

## SAFE WEIGHT LOADS

STATIC LOAD	ROTATING LOAD	DRILL DEPTH	SIZE/WT/FT
30,000 LBS.	27,000 LBS. @ 100 RPM	2,700 FT	2 3/8" / 6.65 LBS
		1,800 FT	2 7/8" / 10.4 LBS

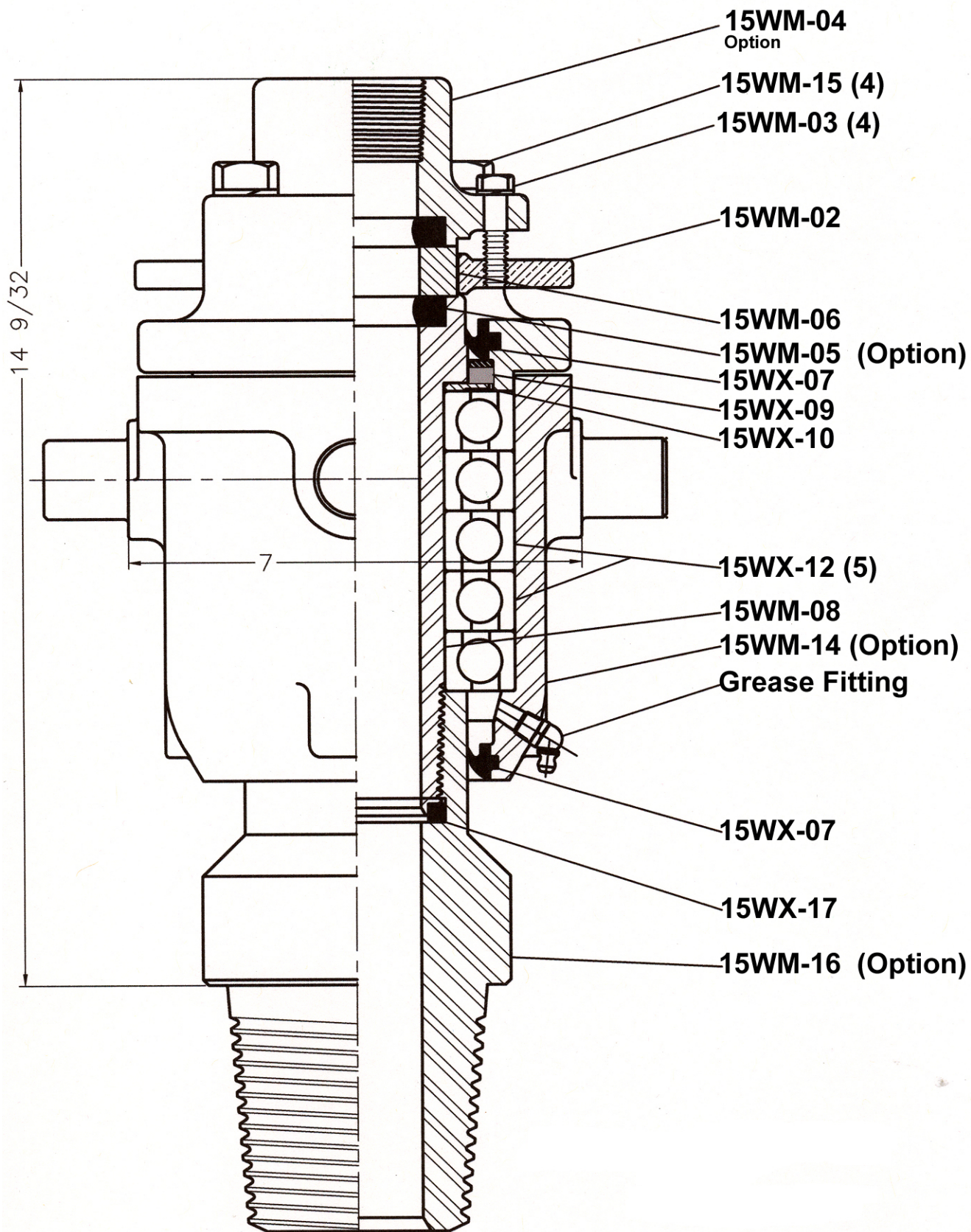
## PARTS LIST

PART NO.	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>15WM-3600-XX</b>	WESTERN SWIVEL, LESS BAIL, 2" NPT FEMALE HOSE CONNECTION, FOUR (4) PULLDOWN TRUNNION PINS, WITH 2 7/8" IF LH PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR SPECIAL LOWER CONNECTION			
15WM-01	BAIL	25.00	1	
15WM-02	+ WEARBUSHING RETAINER	3.00	1	
15WM-03	BOLT AND LOCKWASHER, W/B RETAINER	.10	4	
15WM-04	GOOSENECK, 2" NPT FEMALE HOSE CONNECTION	24.00	1	
15WM-05	+ PACKING	.12	2	
15WM-05-90	PACKING, 90 DURO (HIGH PRESSURE)	.12	Option	
15WM-05V	PACKING, VITON	.12	Option	
15WM-06	+ WEARBUSHING	1.00	1	
15WX-07	+ HOUSING SEALS	.25	2	
15WX-07V	HOUSING SEALS VITON	.25	Option	
15WM-08	BEARING SPINDLE	10.00	1	
15WX-09	+ SHIELD SEAL	.20	1	
15WX-10	+ BEARING SHIELD	.25	1	
15WX-12	+ BEARINGS	5.00	5	
15WM-14A	BEARING HOUSING, (4) 1 3/4" OD ON 7" SHOULDERS	24.00	1	
15WM-15	STUDS AND NUTS, BEARING HOUSING	.75	4	
15WM-16GD-LP	LOWER CONNECTION, 2 7/8" OD 8-V LH PIN	12.00	1	
15WM-16GE-LP	LOWER CONNECTION, 2 7/8" IF LH PIN	12.00	1	
15WM-16FE-LP	LOWER CONNECTION, 2 3/8" IF LH PIN	12.00	1	
15WX-17	+ SPINDLE THREAD SEAL	.06	1	
15WM-40	MAINTENANCE KIT (8) 15WM-05 (1) 15WM-06			
15WM-40R	REPAIR KIT + Included in repair kit			

Other sizes of connections available, please consult factory.

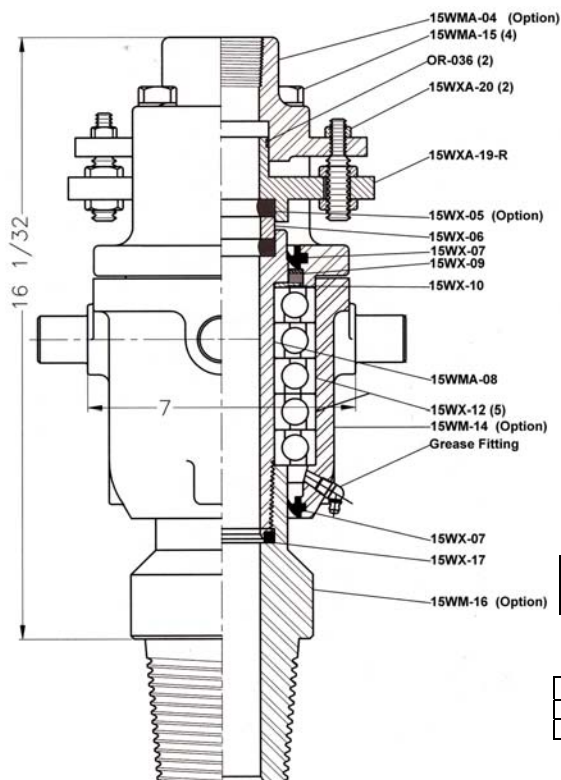
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







# 15WMA



- For Drilling Rigs with Chain or Cable PULL DOWN
- Constructed from alloy steel for durability
- For MUD and AIR drilling
- Can be furnished with bail
- Trunnion Pins to 1-3/4"
- Thrust ball bearing for supporting pipe load and radial load
- Designed for easy service and field maintenance
- Choice of Lower Connection Threads.
- 15WMA FEATURES ADJUSTABLE PACKING

## TECHNICAL DATA

PACKING	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN.	WATER PRESSURE	WORKING OPENING
ADJUSTABLE	24 1/2"	105	2" NPT	2 7/8" IF LH	2"	To 300 PSI

## SAFE WEIGHT LOADS

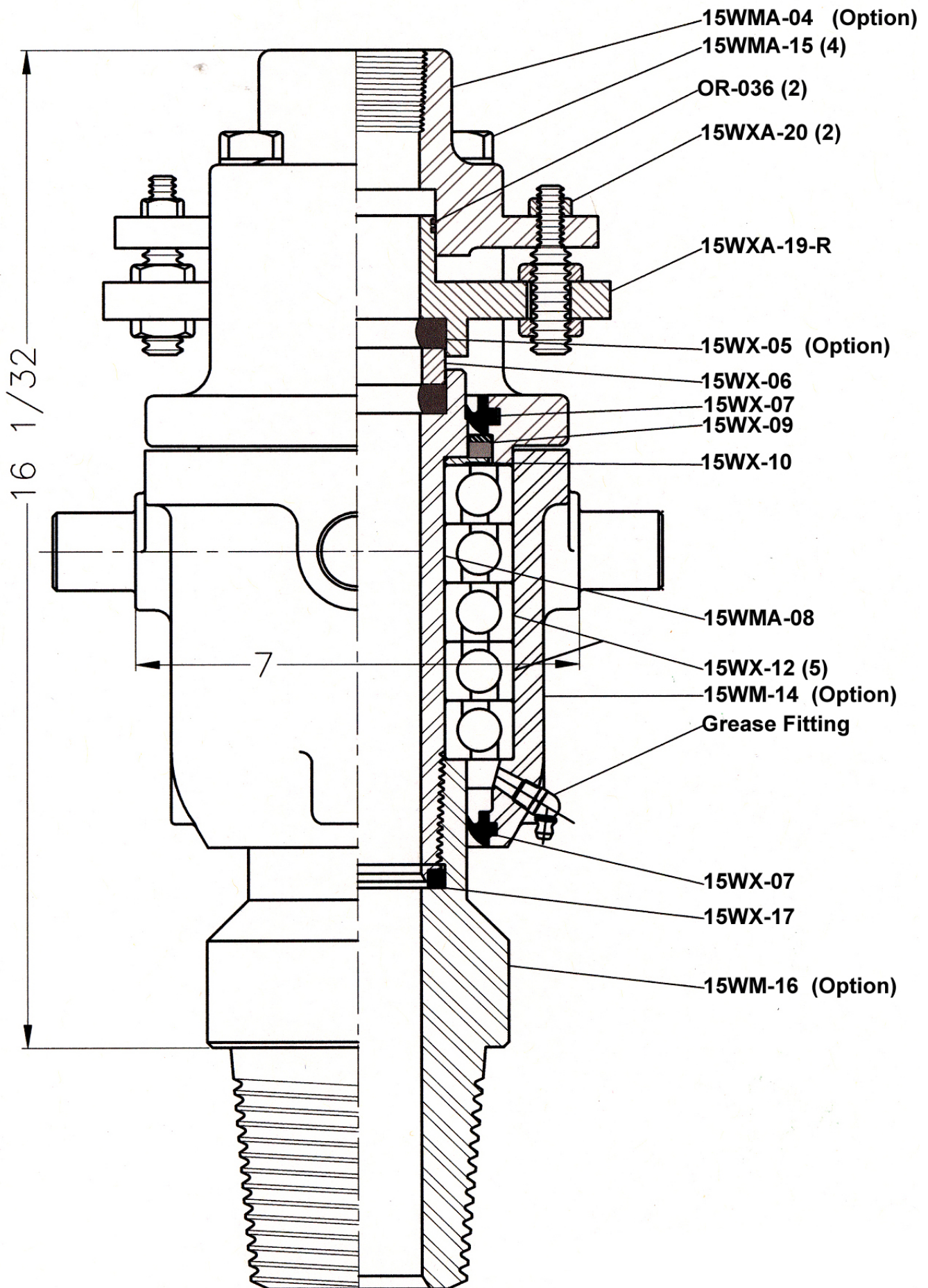
STATIC LOAD	ROTATING LOAD	DRILL DEPTH	SIZE/WT/FT
30,000 LBS.	27,000 LBS. @ 100 RPM	2,700 FT	2 3/8" / 6.65 LBS
		1,800 FT	2 7/8" / 10.4 LBS

## PARTS LIST

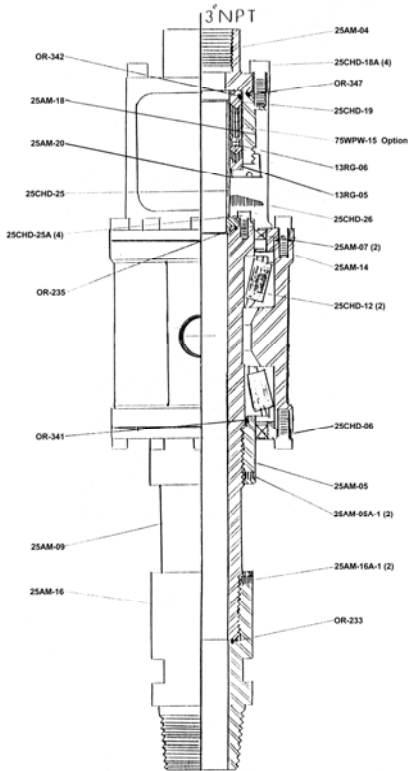
PART NO.	DESCRIPTION	WT/LBS	QTY. REQ.	
<b>15WMA-3700-XX</b>	WESTERN SWIVEL, LESS BAIL, 2" NPT FEMALE HOSE CONNECTION, WITH ADJUSTMENT PACKING, FOUR (4) PULLDOWN TRUNNION PINS, WITH 2 7/8" IF LEFT HAND PIN LOWER CONNECTION			
	ADD FOR BAIL			
	ADD FOR SPECIAL LOWER CONNECTION			
15WM-01	BAIL	25.00	OPTION	
15WMA-04	GOOSENECK	39.00	OPTION	
15WX-05	+PACKING	.12	2	
15WX-05-90	PACKING, 90 DURO	.12	OPTION	
15WX-06	+WEARBUSHING	.75	1	
15WX-07	+HOUSING SEAL	.25	2	
15WMA-08	SPINDLE	10.00	1	
15WX-09	+SHIELD SEAL	.20	1	
15WX-10	+BEARING SHIELD	.25	1	
15WX-12	+BEARINGS	5.00	5	
15WM-14A	BEARING HOUSING, 7" SHOULDERS, (4) 1 3/4" PINS	24.00	OPTION	
15WMA-15	STUDS W/NUT	.75	4	
15WM-16GD-LP	LOWER CONNECTION, 2 7/8" OD 8-V LH PIN	12.00	OPTION	
15WM-16GE-LP	LOWER CONNECTION, 2 7/8" IF LH PIN	12.00	1	
15WM-16FE-LP	LOWER CONNECTION, 2 3/8" IF LH PIN	12.00	OPTION	
15WX-17	+SPINDLE THREAD SEAL	.06	1	
15WXA-19-R	GLAND, PACKING ADJUSTING	8.25	1	
15WXA-20	ADJUST SCREW W/NUTS	1.25	2	
OR-036	+O RING	.01	2	
15WX-40	MAINTENANCE KIT (8) 15WX-05, (1) 15WX-06			
15WMA-40R	REPAIR KIT +INCLUDED IN REPAIR KIT			

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



# 25AM



- Adjustable Chevron packing
- 2 ½ Fluid Passage
- For Pulldown Rigs
- Adjustable Packing
- Grease Lubricated Packing & Bearing
- Adjustable tapered roller bearings
- Bolt in packing capsule (Quick Change)

## TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
	9 1/8		3" NPT	3 ½" IF	2 ½"	TO 1500 PSI

## WEIGHT CAPACITY

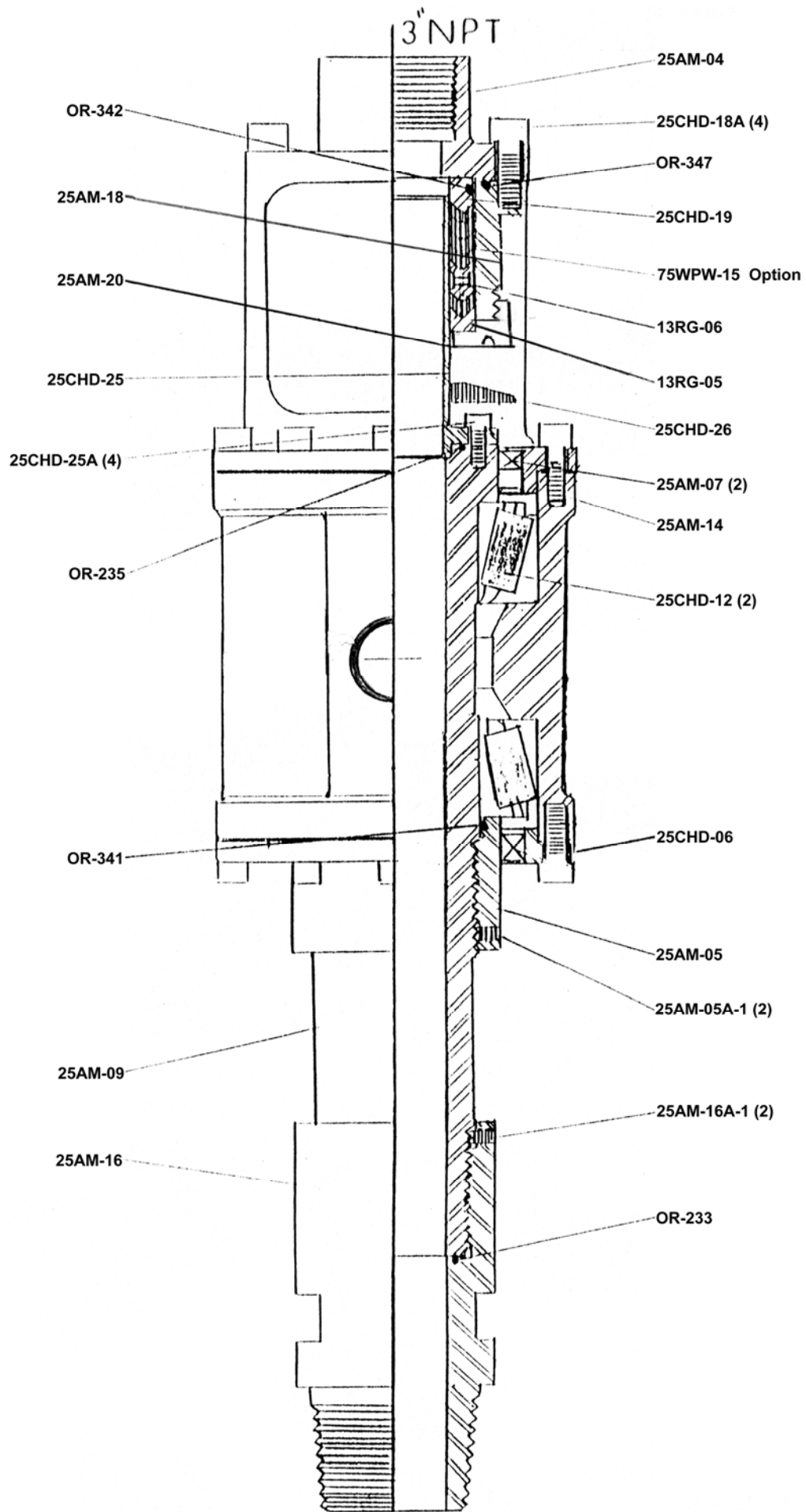
STATIC	ROTATING
60,000 LBS	28,000 LBS @ 100 RPM

## PARTS LIST

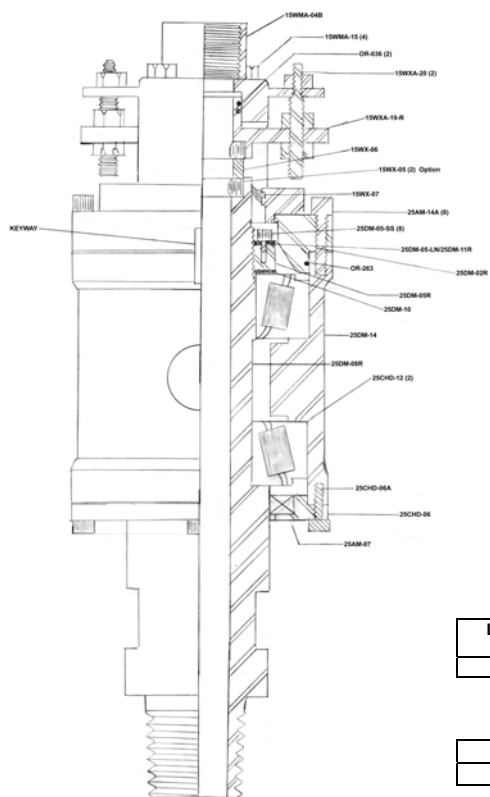
PART NUMBER	NAME	QTY. REQ.	
<b>25AM-8010-XX</b>	SWIVEL, HIGH PRESSURE WITH ADJUSTABLE PACKING, 3" HOSE CONNECTION WITH 2" OD PINS ON 9 1/8" SHOULDERS WITH 3 ½" IF LH PIN LOWER CONNECTION		
13RG-05	PACKING SEAT RING	1	
13RG-06	LANTERN RING	1	
25AM-18	PACKING BOX	1	
25AM-20	PACKING ADJUSTING GLAND	1	
25AM-04	BONNET 3" NPT HOSE STRAIGHT UP	1	
25AM-05	BEARING NUT	1	
25AM-05A-1	SET SCREWS, ADJUSTING NUT	2	
25CHD-06	LOWER SEAL BOX	1	
25AM-07	HOUSING SEAL	2	
25CHD-26	MUD SLINGER	1	
25AM-09	BEARING SPINDLE	1	
25CHD-12	BEARINGS (CUP AND CONE)	2	
25AM-16	LOWER SUB, 3 ½" IF LH PIN	1	
25AM-16A-1	SET SCREWS, LOWER SUB	2	
25CHD-19	PACKING GLAND	1	
25CHD-25	WASHPIPE	1	
25CHD-25A	CAP SCREWS, WASHPIPE	4	
OR-233	O RING (SPINDLE THREAD SEAL)	1	
OR-235	O RING (WASHPIPE)	1	
OR-341	O RING (BEARING ADJUSTING NUT)	1	
OR-342	O RING (PACKING GLAND)	1	
OR-347	O RING (PACKING BOX)	1	
25DM-14	BEARING HOUSING, 2" OD PINS ON 9 1/8" SHOULDERS	1	
75WPW-15	PACKING SET	1	
75WPW-15-416	PACKING SET (LOW PRESSURE)	Option	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 25DM



- Fluid Passage – 2 ½"
- For Pulldown Rig
- Grease Lubricated Bearings
- Adjustable Packing
- Packing can be changed without disassemble
- Adjustable tapered roller bearing

### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
	9 1/8"		3"	3 ½" IF	2 ½"	To 300 PSI

### WEIGHT CAPACITY

STATIC	ROTATING
60,000 LBS	28,000 LBS @ 100 RPM

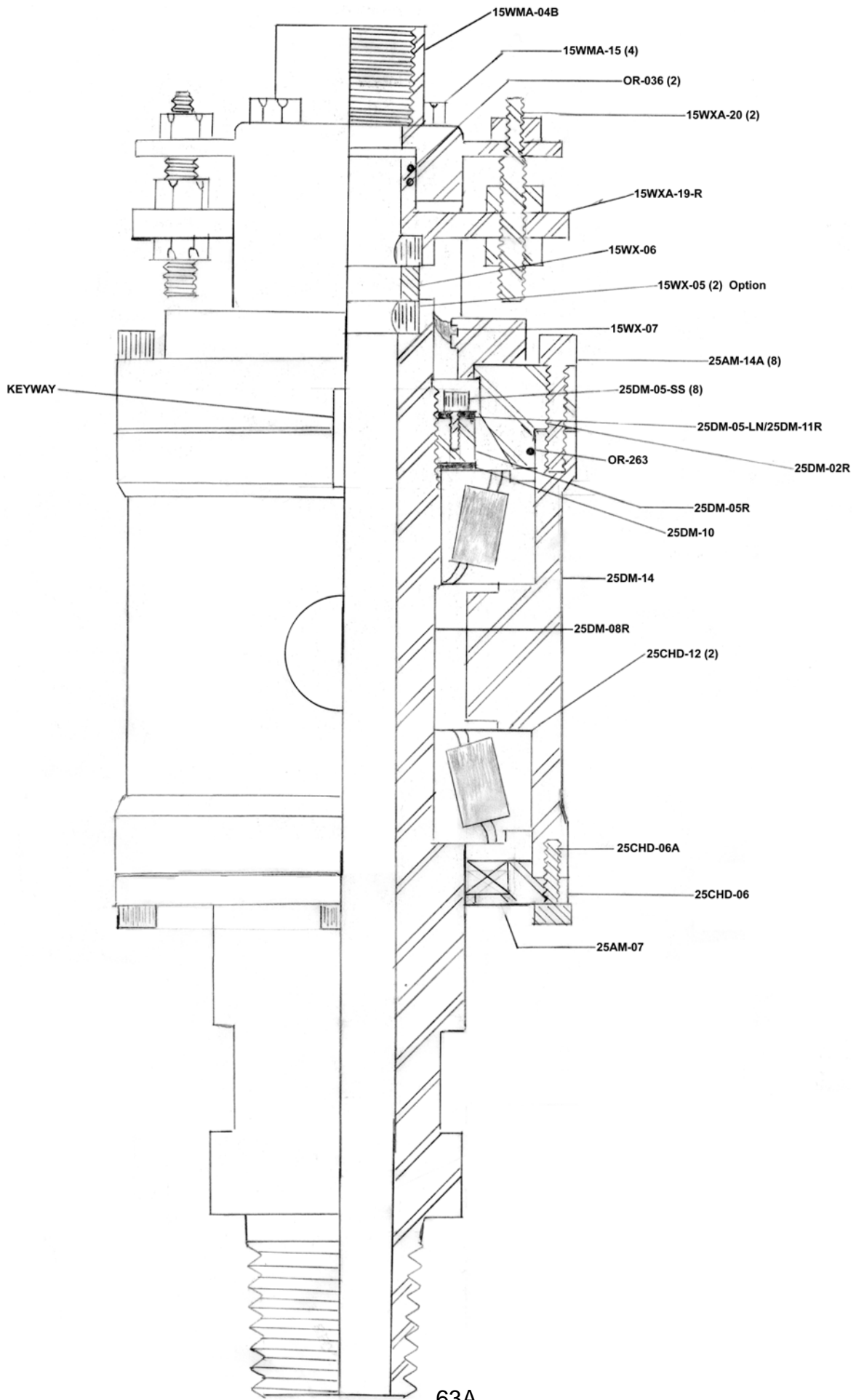
### PARTS LIST

PART NO.	DESCRIPTION	QTY. REQ.	
<b>25DM-8050-XX</b>	SWIVEL, ADJUSTING NUT WITH LOCK NUT, 2 ½" NPT FEMALE HOSE CONNECTION, ADJUSTABLE PACKING. 2" OD PINS ON 9 1/8" SHOULDERS, WITH 3 ½" IF LH PIN LOWER CONNECTION		
15WMA-04B	GOOSENECK, ADJUSTABLE (2 ½" NPT FEMALE)	1	
15WMA-15	STUD WITH NUT	4	
15WX-05	PACKING	2	
15WX-05-90	PACKING, 90 DURO	Option	
15WX-06	WEARBUSHING	1	
15WX-07	HOUSING SEAL	1	
OR-036	O RING, ADJUSTING GLAND	2	
15WXA-19-R	ADJUSTING GLAND	1	
15WXA-20	ADJUSTING SCREW WITH NUTS	2	
25CHD-06	LOWER SEAL BOX	1	
25AM-07	HOUSING SEAL	1	
25CHD-12	BEARINGS (CUP AND CONE)	2	CONSULT ea
25DM-02R	PLATE, COVER	1	
25DM-05-LN	BEARING LOCKNUT	1	
25DM-05R	ADJUSTING NUT	1	
25DM-08R	SPINDLE, 3 ½" IF LH PIN	1	
25DM-10	BEARING SHIELD	1	
25DM-11R	PLATE, LOCK	1	
25DM-14	BEARING HOUSING WITH PINS, 2" OD, 9 1/8" SHOULDERS	1	
OR-263	O RING COVER PLATE	1	

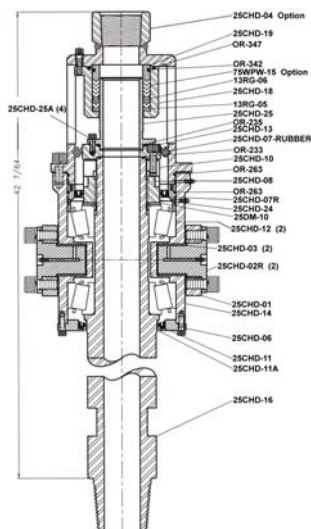
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 25CHD SWIVEL



- 2 ½ Fluid Passage
- For pulldown rigs
- Adjustable tapered roller bearings
- Grease lubricated packing & bearing
- Fits all TH60, T-3W and other drills

### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
45 ½	26 5/8	345	3" NPT	3 ½" IF	2 ½"	TO 1500 PSI

### WEIGHT CAPACITY

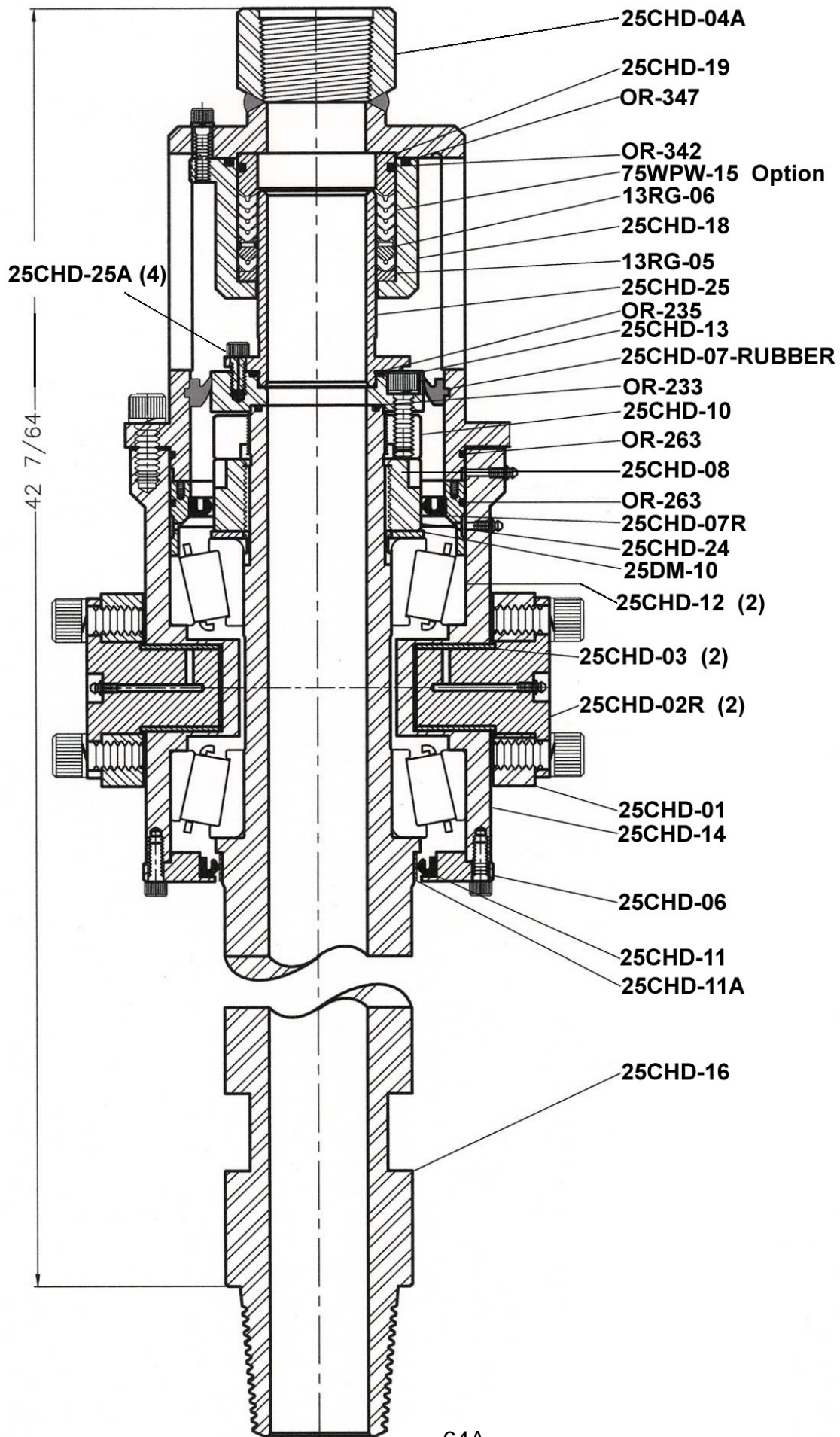
STATIC	ROTATING
90,000 LBS	40,000 LBS @ 100 RPM

### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>25CHD-8030-XX</b>	(REVISED) SWIVEL WITH YOKE ASSEMBLY, 3" NPT FEMALE HOSE CONNECTION, STRAIGHT UP, CHEVRON (V-RING) PACKING, WITH 3 ½" IF LH PIN LOWER CONNECTION <b>*FIXED PACKING, NO ADJUSTMENT*</b>		
13RG-05	PACKING SEAT RING	1	
13RG-06	LANTERN RING	1	
25CHD-01	YOKE ASSEMBLY	1	
25CHD-02R	TRUNNION PINS	2	
25CHD-03	BUSHING, TRUNNION PINS	2	
25CHD-04A	BONNET, 3" NPT FEMALE HOSE CONNECTION STRAIGHT UP	1	
25CHD-06	LOWER SEAL BOX	1	
25CHD-07R	SEAL, UPPER HOUSING (SEAL BOX)	1	
25CHD-07-RUBBER	SEAL, UPPER HOUSING (BONNET)	1	
25CHD-08	BEARING ADJUSTING NUT	1	
25CHD-10	BEARING LOCK NUT	1	
25CHD-11	SEAL, LOWER HOUSING	1	
25CHD-11A	SLEEVE, LOWER WEAR	1	
25CHD-12	BEARING (CUP AND CONE)	2	
25CHD-13	ADAPTER, WASHPIPE	1	
25CHD-14	BEARING HOUSING	1	
25CHD-16	SPINDLE, 3 ½" IF LH PIN	1	
25CHD-18	PACKING BOX	1	
25CHD-19	PACKING GLAND	1	
25CHD-24	SEAL BOX, UPPER	1	
25CHD-25	WASHPIPE	1	
25CHD-25A	CAP SCREWS, WASHPIPE	4	
25CHD-26	SLINGER RING	1	
25DM-10	BEARING SHIELD	1	
OR-234	O RING, SPINDLE	1	
OR-235	O RING, WASHPIPE	1	
OR-263	O RING, SEAL BOX AND BONNET	2	
OR-342	O RING, PACKING GLAND	1	
OR-347	O RING, PACKING BOX	1	
75WPW-15	PACKING	1	
75WPW-15-416	PACKING (LOW PRESSURE)	OPTION	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.

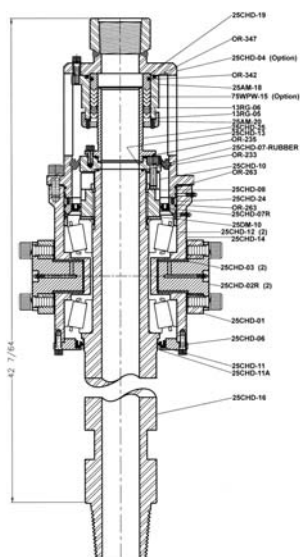


**COMING SOON:**

**25CHD-50RR**

**RUBBER RING  
ASSEMBLY**

## 25CHD-R SWIVEL & PARTS



- 2 ½" Fluid Passage
- For pulldown rigs
- Adjustable tapered roller bearings
- Adjustable Chevron packing
- Grease lubricated packing & bearing
- Fits all TH60, T-3W and other drills
- Bolt in packing capsule (Quick change)

### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
45 ½	26 5/8	345	3" NPT	3 ½" IF	2 ½"	TO 1500 PSI

### WEIGHT CAPACITY

STATIC	ROTATING
90,000 LBS	40,000 LBS @ 100 RPM

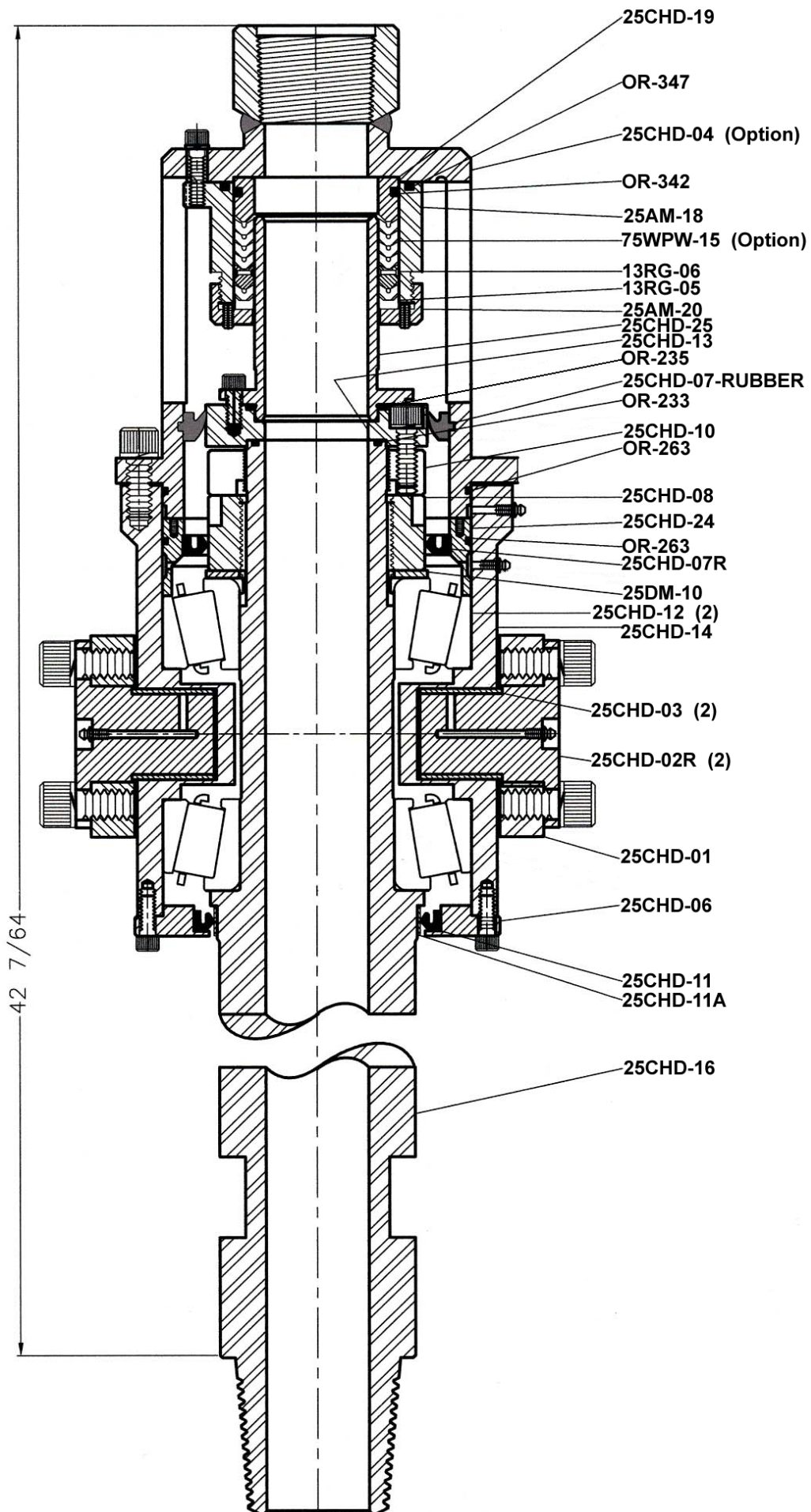
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>25CHD-R-8011-XX</b>	(REVISED) SWIVEL, WITH YOKE ASSEMBLY, 3" NPT FEMALE HOSE CONNECTION, STRIAIGHT UP, <b>ADJUSTABLE CHEVRON (V-RING) PACKING</b> , WITH 3 ½" IF LH PIN CONNECTION		
13RG-05	PACKING SEAT RING	1	
13RG-06	LANTERN RING	1	
25CHD-01	YOKE ASSEMBLY	1	
25CHD-02R	TRUNNION PINS	2	
25CHD-03	BUSHING, TRUNNION PINS	2	
25CHD-04	BONNET, 3" NPT FEMALE HOSE CONNECTION STRAIGHT UP	1	
25CHD-06	LOWER SEAL BOX	1	
25CHD-07R	SEAL, UPPER HOUSING (SEAL BOX)	1	
25CHD-07-RUBBER	SEAL, UPPER HOUSING (BONNET)	1	
25CHD-08	BEARING ADJUSTING NUT	1	
25CHD-10	BEARING LOCK NUT	1	
25CHD-11	SEAL, LOWER HOUSING	1	
25CHD-11A	SLEEVE, LOWER WEAR	1	
25CHD-12	BEARING (CUP AND CONE)	2	
25CHD-13	ADAPTER, WASHPIPE	1	
25CHD-14	BEARING HOUSING	1	
25CHD-16	SPINDLE, 3 ½" IF LH PIN	1	
25AM-18	PACKING BOX	1	
25CHD-19	PACKING GLAND	1	
25AM-20	PACKING ADJUSTING GLAND	1	
25CHD-24	SEAL BOX, UPPER	1	
25CHD-25	WASHPIPE	1	
25CHD-25A	CAP SCREWS, WASHPIPE	4	
25CHD-26	SLINGER RING	1	
25DM-10	BEARING SHIELD	1	
OR-234	O RING, SPINDLE	1	
OR-235	O RING, WASHPIPE	1	
OR-263	O RING, SEAL BOX AND BONNET	2	
OR-342	O RING, PACKING GLAND	1	
OR-347	O RING, PACKING BOX	1	
75WPW-15	PACKING	1	
75WPW-15-416	PACKING (LOW PRESSURE)	1	

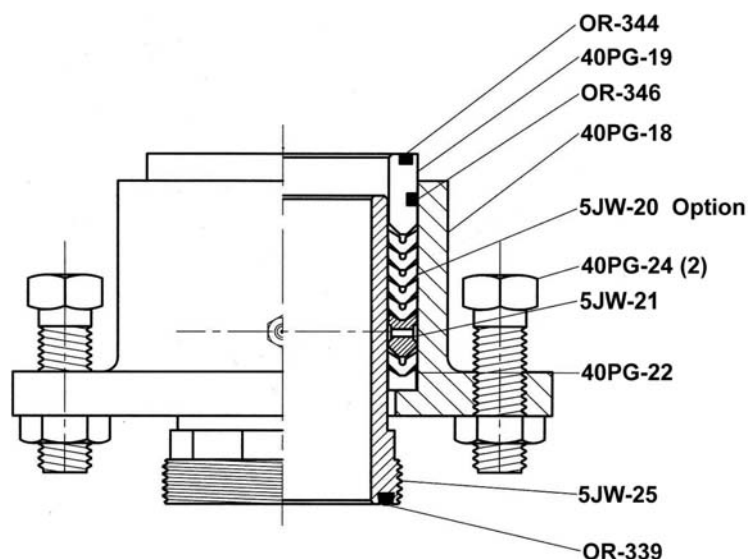
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## PACKING ASSEMBLY FOR 30 PG, 40 PG, 50 PG SWIVEL



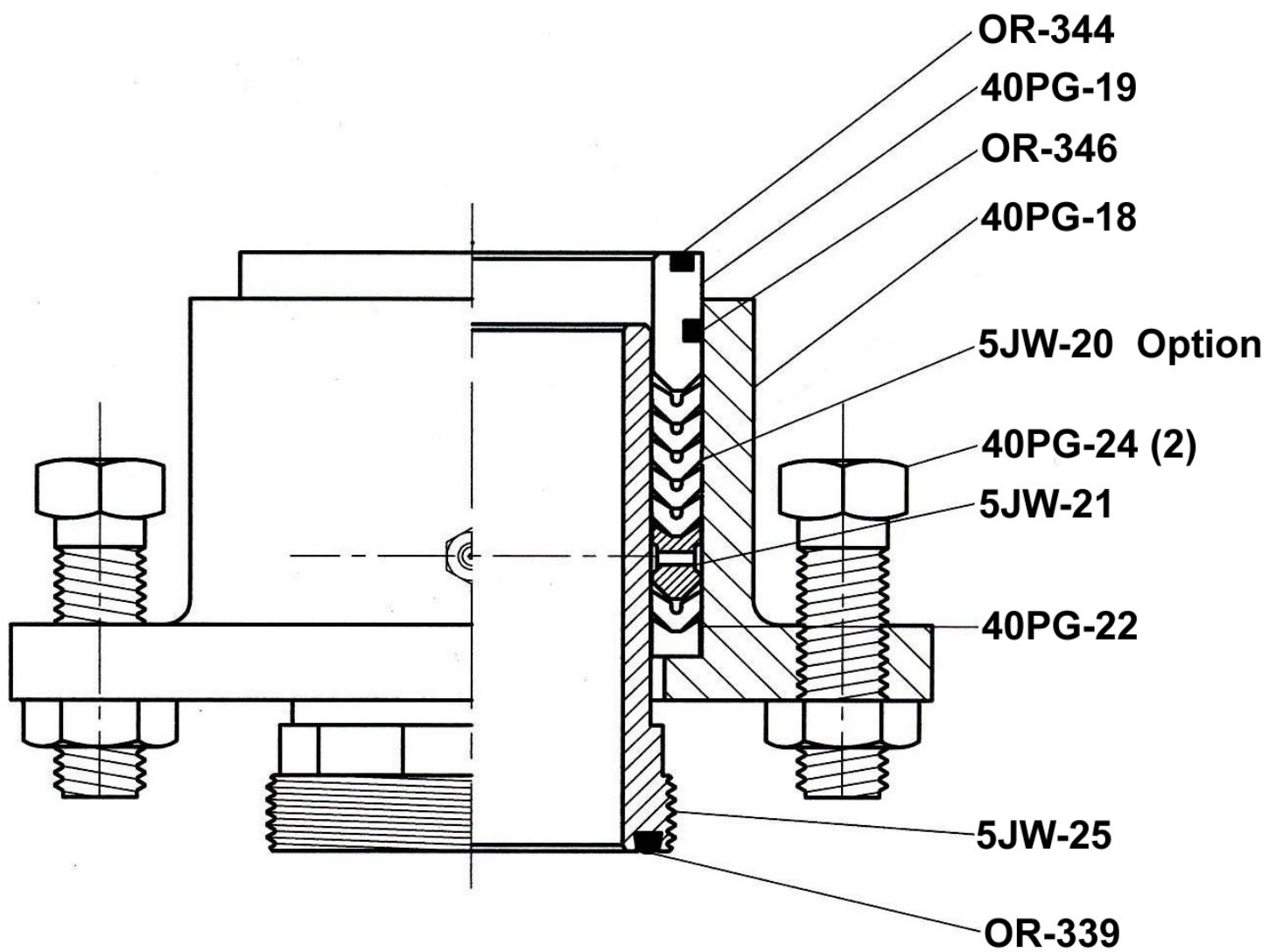
- Fits all KG and PG swivels
- Grease lubricated Chevron V-Ring Packing
- Adjustable

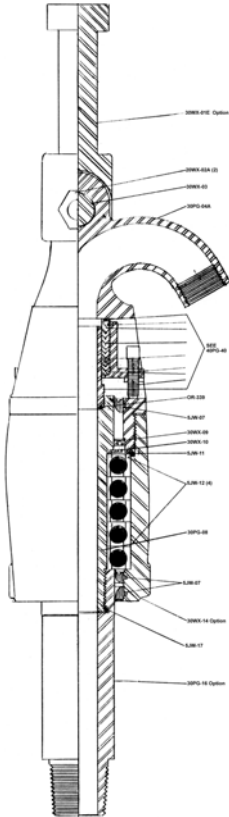
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>40PG-40</b>	PACKING ASSEMBLY (COMPLETE)	1	
40PG-18	PACKING BOX	1	
40PG-19	PACKING GLAND	1	
5JW-20	PACKING SET	1	
5JW-20-416	PACKING SET (LOW PRESSURE)	Option	
5JW-21	LANTERN RING	1	
40PG-22	PACKING SEAT RING	1	
40PG-24	PACKING ADJUSTING SCREW AND NUT	2	
5JW-25	WASHPIPE	1	
OR-339	O RING (WASHPIPE)	1	
OR-344	O RING (PACKING GLAND)	1	
OR-346	O RING (PACKING GLAND)	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





30PG Uses Only  
Four (4) Bearings

## 30PG SWIVEL

- For DEEP WATER WELL, WORKOVER, and SHALLOW OIL WELL Drilling
- Hardened ground WASHPIPE and CHEVRON (V-Ring) PACKING, grease lubricated
- Oversized WATERCOURSE, 3" ID
- Flexible BAIL or ELEVATOR SHANK available
- Adjustable Packing
- Packing can be changed quickly without disassembling swivel.
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available for pull down rigs
- Large choice of optional Lower Connections Threads
- Designed for easy field service and maintenance

### TECHNICAL

MODEL #	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING PRESSURE	BAIL OPENING
30PG	45"	225	3" NPT	4-1/2" OD 8-V LH	MAX. 3" ID	To 1500 PSI	5" X 8"

### SAFE WEIGHT LOADS

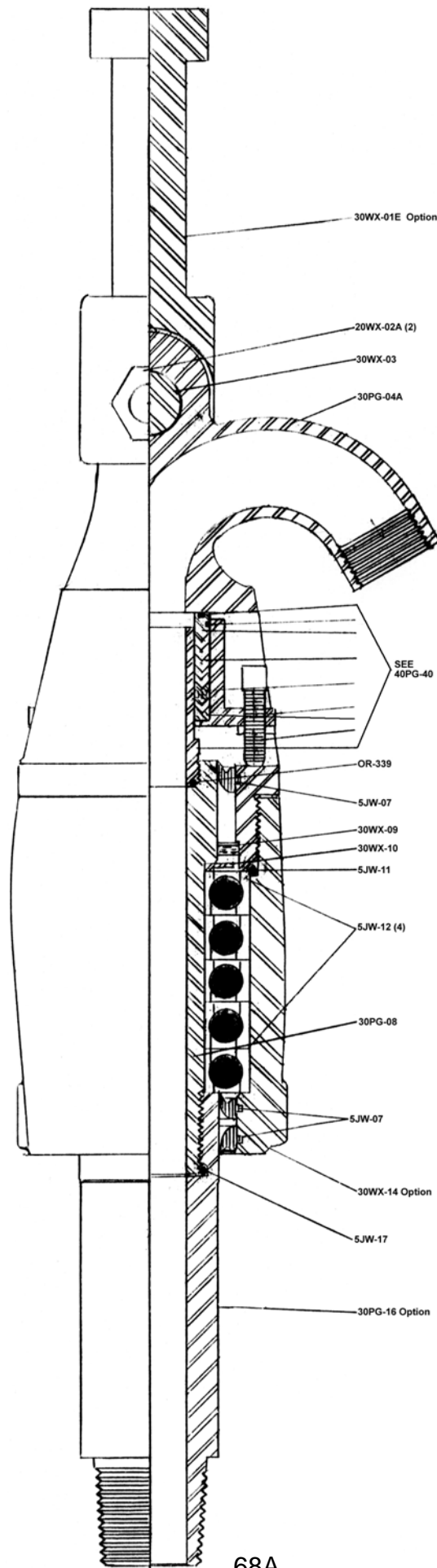
MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
30PG	95,000 LBS.	60,000 LBS. @ 100 RPM	6,400 FT	4,000 FT	3,400 FT	2,600 FT

### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>30PG-6500-XX</b>	WESTERN SWIVEL, LESS BAIL OR ELEVATOR SHANK, 3" NPT FEMALE HOSE CONNECTION, WITH 4 1/2" OD 8V LH PIN LOWER CONNECTION		
	ADD FOR BAIL		
	ADD FOR ELEVATOR SHANK (3 1/2" OD OR SMALLER)		
	ADD FOR PULLDOWN TRUNNION PINS		
	ADD FOR "SPECIAL LOWER CONNECTION		
30WX-01	BAIL	Option	
30WX-01E	ELEVATOR SHANK (3 1/2" OD OR SMALLER)	Option	
30WX-02	BAIL PIN	1	
20WX-02A	BAIL PIN NUT	2	
30PG-04A	GOOSENECK, 3" NPT FEMALE HOSE	1	
5JW-07	HOUSING SEAL	2	
30PG-08	BEARING SPINDLE	1	
30WX-09	SHIELD SEAL	1	
30WX-10	BEARING SHIELD	1	
5JW-11	BEARING RETAINER WIRE	1	
5JW-12	BEARING	4	
30WX-14	BEARING HOUSING	1	
30WX-14A	BEARING HOUSING W/PINS, 2" OD on 8 15/16" SHOULDERS	Option	
15WX-15	HOUSING BOLT AND NUT	1	
30PG-16KD-LP	LOWER CONNECTION, 4 1/2" OD 8V LH PIN	1	
30PG-16JG-LP	LOWER CONNECTION, 3 1/2" FULL HOLE LH PIN	Option	
5JW-17	SPINDLE THREAD SEAL	1	
40PG-40	PACKING CAPSULE	1	

Other sizes of connections available, please consult factory.

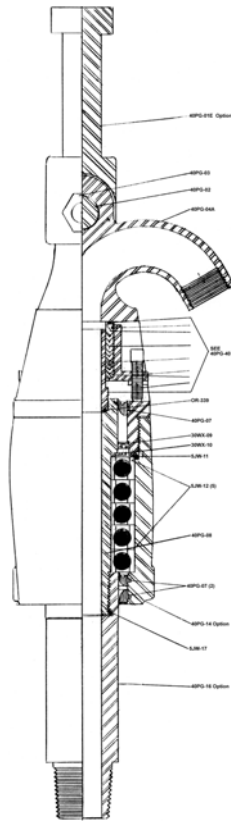
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 40PG SWIVEL

- For DEEP WATER WELL, WORKOVER, and SHALLOW OIL WELL Drilling
- Hardened ground WASHPIPE and CHEVRON (V-Ring) PACKING, grease lubricated
- Oversized WATERCOURSE, 3" ID
- Flexible BAIL or ELEVATOR SHANK available
- Adjustable Packing
- Packing can be changed quickly without disassembling swivel.
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available for pull down rigs
- Large choice of optional Lower Connections Threads
- Designed for easy field service and maintenance



### TECHNICAL

MODEL #	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING PRESSURE	BAIL OPENING
40PG	57"	347	3" NPT	4-1/2" OD 8-V LH	MAX. 3" ID	To 1500 PSI	6" X 14"

### SAFE WEIGHT LOADS

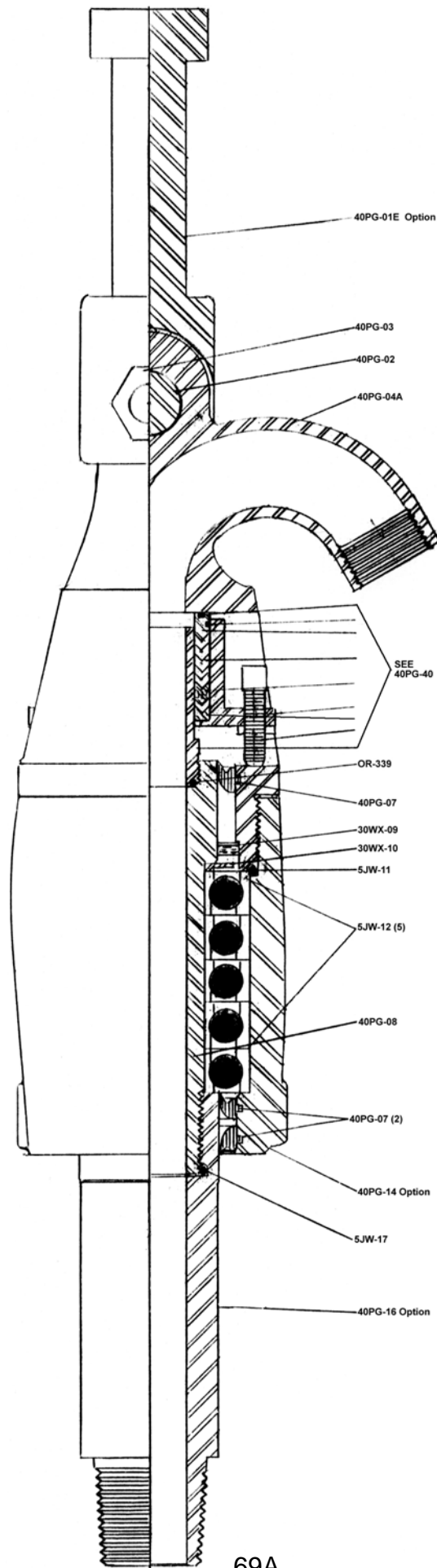
MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
40PG	140,000 LBS.	71,000 LBS. @ 100 RPM	8,000 FT	5,000 FT	3,800 FT	3,000 FT

### PARTS LIST

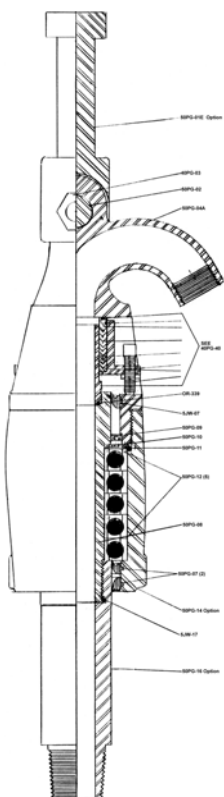
PART NUMBER	NAME	QTY. REQ.	
<b>40PG-6000-XX</b>	WESTERN SWIVEL, LESS BAIL OR ELEVATOR SHANK 3" NPT FEMALE HOSE CONNECTION, WITH 4 1/2" OD 8 V LH PIN LOWER CONNECTION		
	ADD FOR BAIL		
	ADD FOR ELEVATOR SHANK (3 1/2" OD OR SMALLER)		
	ADD FOR TRUNNION PINS		
	ADD FOR "SPECIAL" LOWER CONNECTION		
40PG-01	BAIL	Option	
40PG-01E	ELEVATOR SHANK (3 1/2" OR SMALLER)	Option	
40PG-02	BAIL PIN	1	
40PG-03	BAIL PIN NUT	2	
40PG-04A	GOOSENECK, 3" NPT FEMALE HOSE CONNECTION	1	
40PG-07	HOUSING SEAL	3	
40PG-08	BEARING SPINDLE	1	
30WX-09	SHIELD SEAL	1	
30WX-10	BEARING SHIELD	1	
5JW-11	BEARING RETAINER WIRE	1	
5JW-12	BEARING UPTHURST / DOWNTHRUST	5	
40PG-14B	BEARING HOUSING	1	
40PG-14A	BEARING HOUSING W/PINS, 2" OD on 8 15/16" SHOULDERS	Option	
15WX-15	HOUSING LOCK BOLT AND NUT	1	
40PG-16KD-LP	LOWER CONNECTION, 4 1/2" OD 8V LH PIN	1	
40PG-16JG-LP	LOWER CONNECTION, 3 1/2" FULL HOLE LH PIN	Option	
40PG-16JE-LP	LOWER CONNECTION, 3 1/2" IF LH PIN	Option	
5JW-17	SPINDLE THREAD SEAL	1	
40PG-40	PACKING CAPSULE	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 50PG SWIVEL



- For DEEP WATER WELL, WORKOVER, and SHALLOW OIL WELL Drilling
- Hardened ground WASHPIPE and CHEVRON (V-Ring) PACKING, grease lubricated
- Oversized WATERCOURSE, 3" ID
- Flexible BAIL or ELEVATOR SHANK available
- Adjustable Packing
- Packing can be changed quickly without disassembling swivel.
- Thrust ball bearings support drill pipe load while providing radial capacity.
- Seal Bearing Case with grease lubrication
- TRUNNION PINS available for pull down rigs
- Large choice of optional Lower Connections Threads
- Designed for easy field service and maintenance

### TECHNICAL

MODEL #	LENGTH OVERALL	WT/LBS EACH	HOSE CONN. FEMALE	LOWER CONN* PIN	WATER COURSE	WORKING PRESSURE	BAIL OPENING
50PG	63"	512	3" NPT	4-1/2" REG. LH	MAX. 3" ID	To 1500 PSI	7" X 16"

### SAFE WEIGHT LOADS

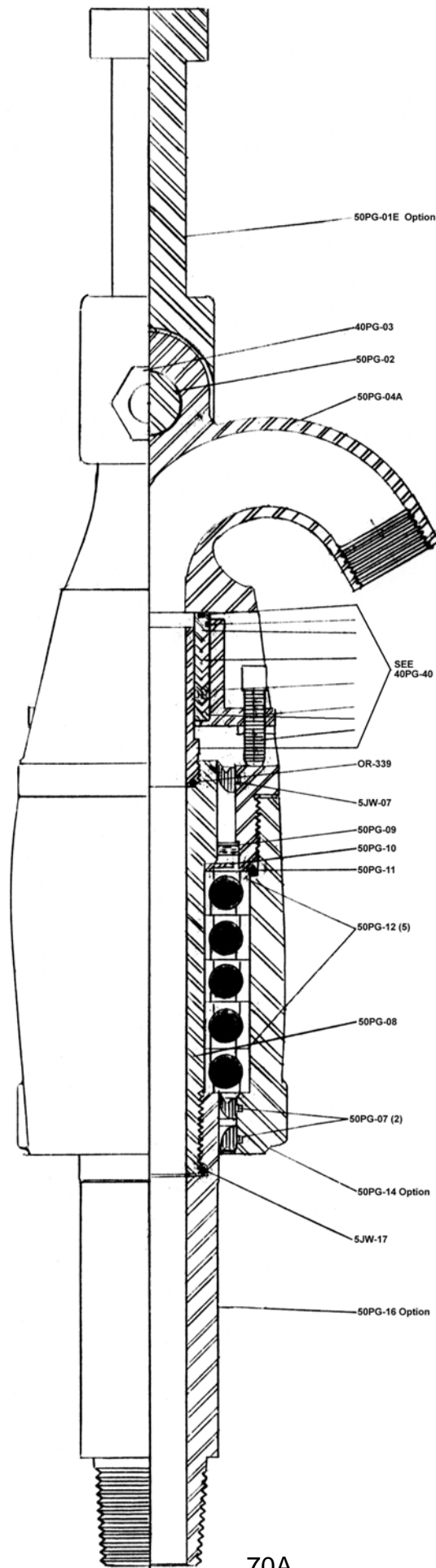
MODEL #	STATIC LOAD	ROTATING LOAD	SAFE DEPTH			
			2-3/8", 6.65	2-7/8", 10.4	3-1/2", 13.3	4-1/2", 16.6
50PG	160,000 LBS	87,000 LBS. @ 100 RPM	10,000 FT	6,200 FT	4,800 FT	3,800 FT

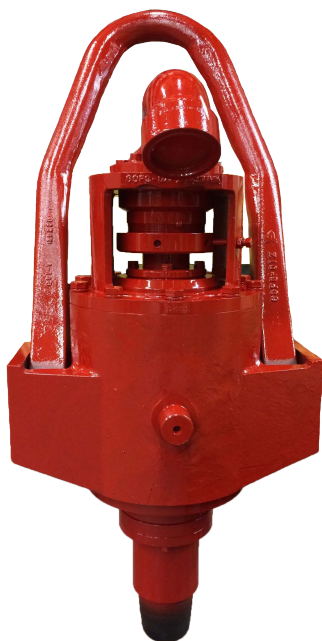
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>50PG-6300-XX</b>	WESTERN SWIVEL, LESS BAIL, 3" NPT FEMALE HOSE CONNECTION. WITH 4 1/2" REGULAR LH PIN LOWER CONNECTION		
	ADD FOR BAIL		
	ADD FOR ELEVATOR SHANK (3 1/2" OR SMALLER)		
	ADD FOR PULLDOWN TRUNNION PINS		
	ADD FOR 6 5/8" REGULAR LH PIN LWR. CONN.		
50PG-01	BAIL	Option	
50PG-01E	ELEVATOR SHANK (3 1/2" OR SMALLER)	Option	
50PG-02	BAIL PIN	1	
40PG-03	BAIL PIN NUTS	2	
50PG-04A	GOOSENECK, 3" NPT FEMALE HOSE CONNECTION	1	
5JW-07	UPPER HOUSING SEAL	1	
50PG-07	LOWER HOUSING SEAL	2	
50PG-08	BEARING SPINDLE	1	
50PG-09	FELT SEAL	1	
50PG-10	BEARING SHIELD	1	
50PG-11	BEARING RETAINER WIRE	1	
50PG-12	BEARINGS	5	
50PG-14	BEARING HOUSING	1	
50PG-14A	BEARING HOUSING WITH TRUNNION PINS	Option	
15WX-15	HOUSING LOCK BOLT AND NUT	1	
50PG-16KF-LP	LOWER CONNECTION, 4 1/2" REGULAR LH PIN	1	
50PG-160F-LP	LOWER CONNECTION, 6 5/8" REGULAR LH PIN	Option	
5JW-17	SPINDLE THREAD SEAL	1	
40PG-40	PACKING CAPSULE	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 60 PG

- Designed for water well but oilfield tough
- Full 3" fluid passage
- Adjustable tapered roller bearing
- Oil lubricated bearings
- Adjustable, grease lubricated Chevron packing
- Available with trunnion pins for pulldown
- Floating washpipe

### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
46 21/32	22 1/16	995	3" NPT	4" IF	3"	TO 3000 PSI

### WEIGHT CAPACITY

STATIC	ROTATING
87.5 TON	81,000 LBS @ 100 RPM

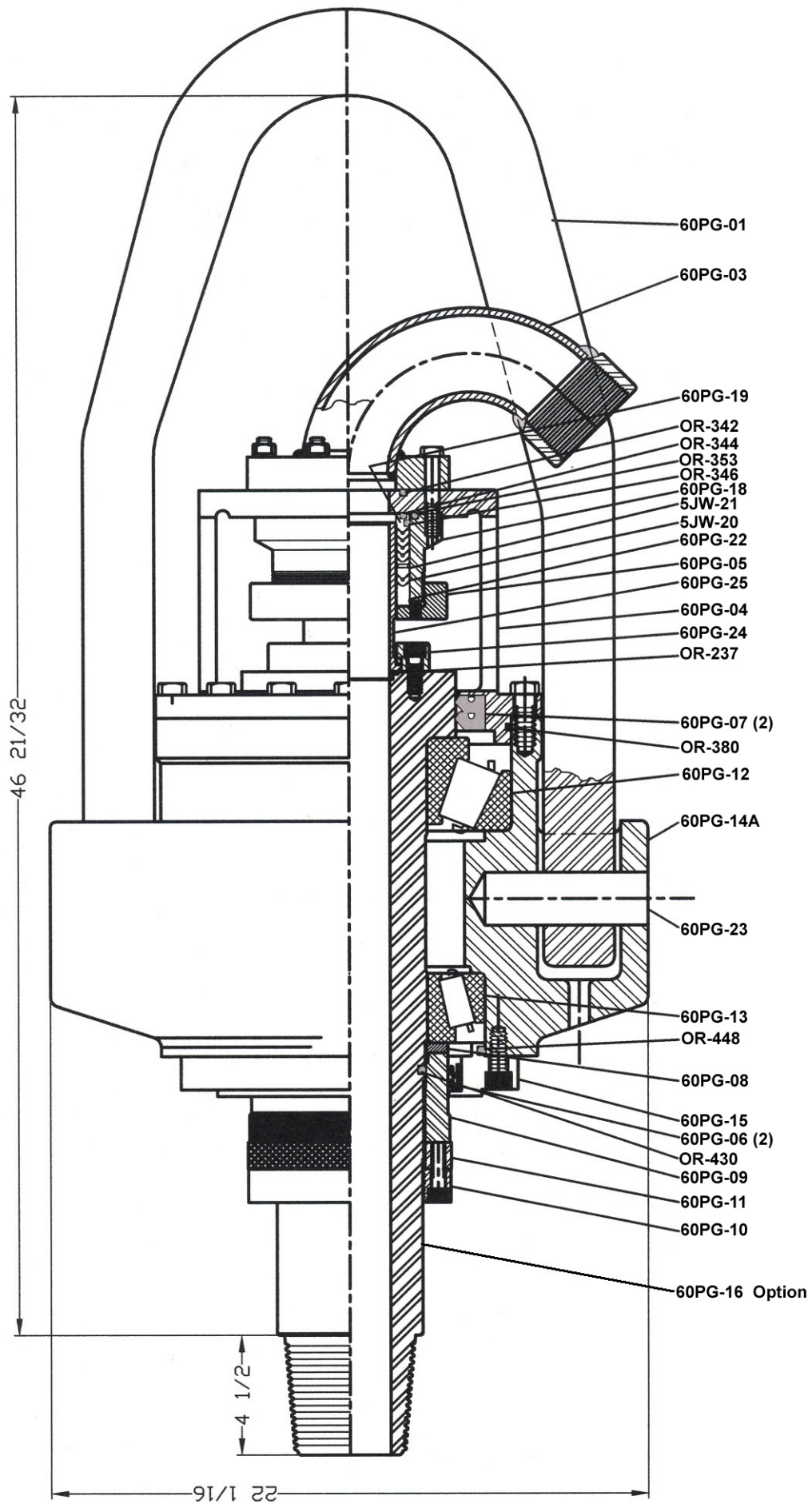
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>60PG-6400-XX</b>	SWIVEL WITH BAIL, 3" NPT FEMALE HOSE CONNECTION STRAIGHT OUT, WITH 2" OD TRUNNIONS PINS ON 14 1/4" SHOULDERS, WITH 4" IF LH PIN LOWER CONNECTION, 3" FLUID PASSAGE		
60PG-01	BAIL	1	
60PG-03	GOOSENECK ASSEMBLY, 3" NPT HOSE CONNECTION STRAIGHT OUT	1	
60PG-04	BONNET	1	
60PG-05	PACKING ADJUSTMENT GLAND	1	
60PG-06	LOWER HOUSING SEAL	2	
60PG-07	UPPER HOUSING SEAL	2	
60PG-08	BEARING SHIELD	1	
60PG-09	BEARING ADJUSTING NUT	1	
60PG-10	BEARING LOCK NUT	1	
60PG-11	BEARING ADJUSTMENT NUT LOCK RING	1	
60PG-12	BEARING, MAIN ASSEMBLY (CUP AND CONE)	1	
60PG-13	BEARING, LOWER ASSEMBLY (CUP AND CONE)	1	
60PG-14A	BEARING HOUSING FOR BAIL	1	
60PG-15	OIL BOX	1	
60PG-16IE-LP	SPINDLE, 4" IF LH PIN	1	
60PG-18	PACKING BOX	1	
60PG-19	PACKING GLAND	1	
60PG-22	PACKING SEAT RING	1	
60PG-23	BAIL PINS	2	
60PG-24	NUT, WASHPIPE HOLDDOWN	1	
60PG-25	WASHPIPE	1	
5JW-20	PACKING	1	
5JW-21	LANTERN RING	1	
OR-237	O RING, WASHPIPE	1	
OR-353	O RING, PACKING BOX	1	
OR-380	O RING, BONNET	1	
OR-430	O RING (STEM/ADJUSTING NUT)	1	
OR-448	O RING (OIL BOX)	1	
6WC-02A	RETAINER, BAIL PIN	2	
OR-342	O RING (GOOSENECK)	1	
OR-344	O RING (PACKING GLAND)	1	
OR-346	O RING (PACKING GLAND)	1	

Other sizes of connections available, please consult factory.

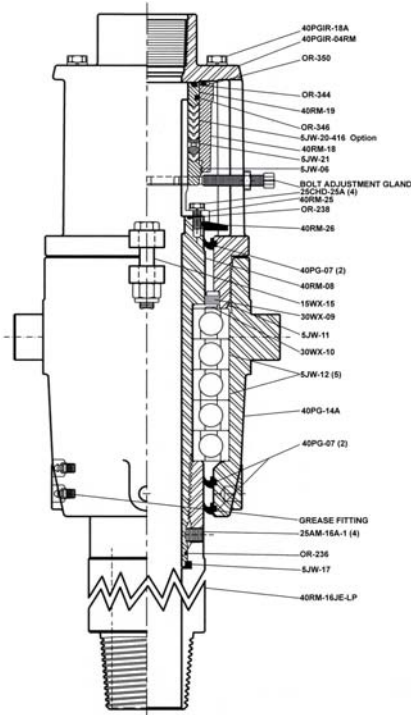
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





71A

# 40RM



- For TH-75 and TH-75W & T3W Deep Hole
- Adjustable Chevron V-Ring Packing
- Full 3" Fluid Passage
- Grease lubricated packing and bearing
- Quick change packing assembly
- Low pressure packing assembly available

## TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
40 ½	8 15/16	280	3" NPT	3 ½ IF (MOD)	3"	TO 1500 PSI

## WEIGHT CAPACITY

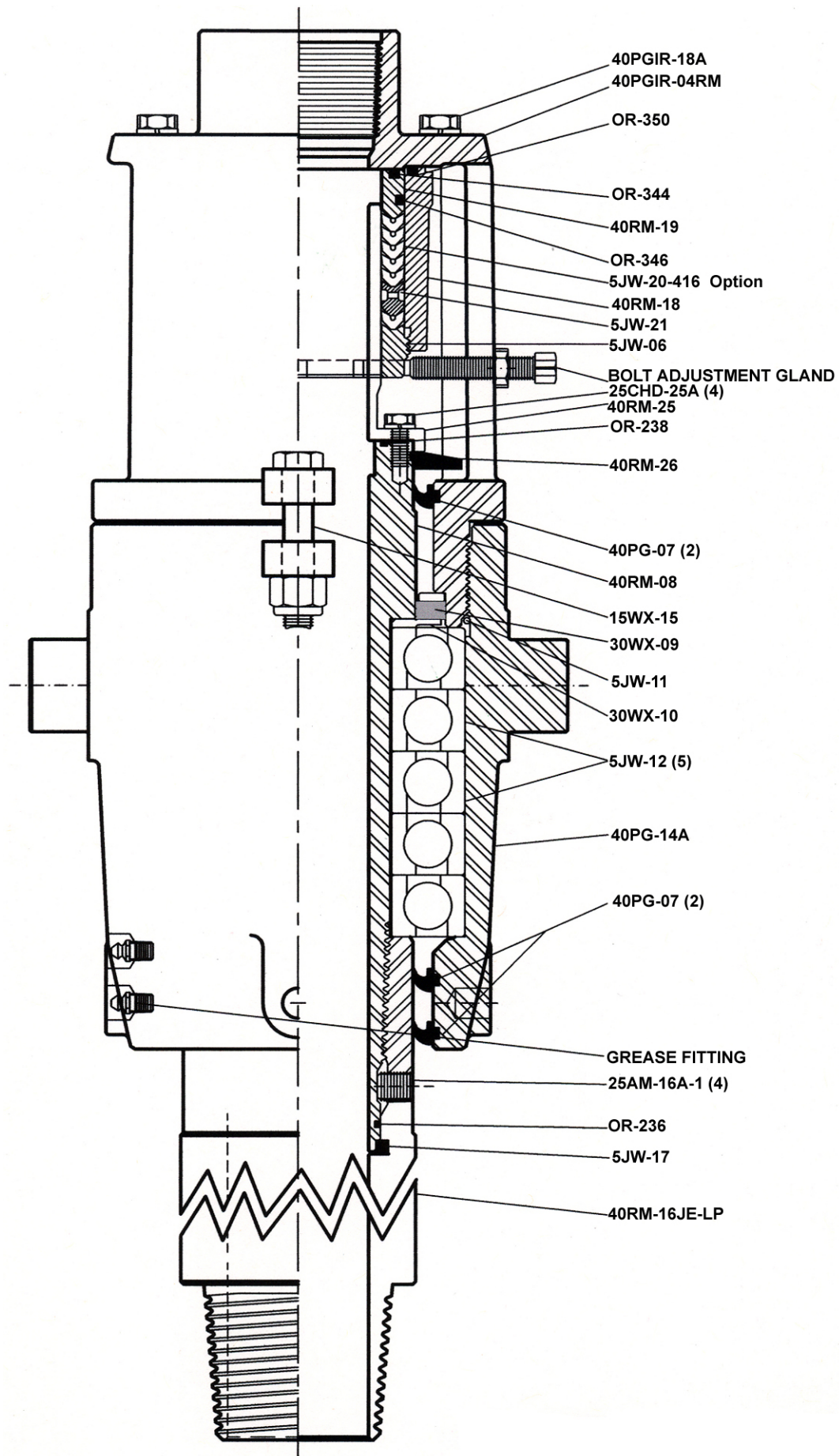
STATIC	ROTATING
140,000 LBS	71,000 LBS @ 100 RPM

## PARTS LIST

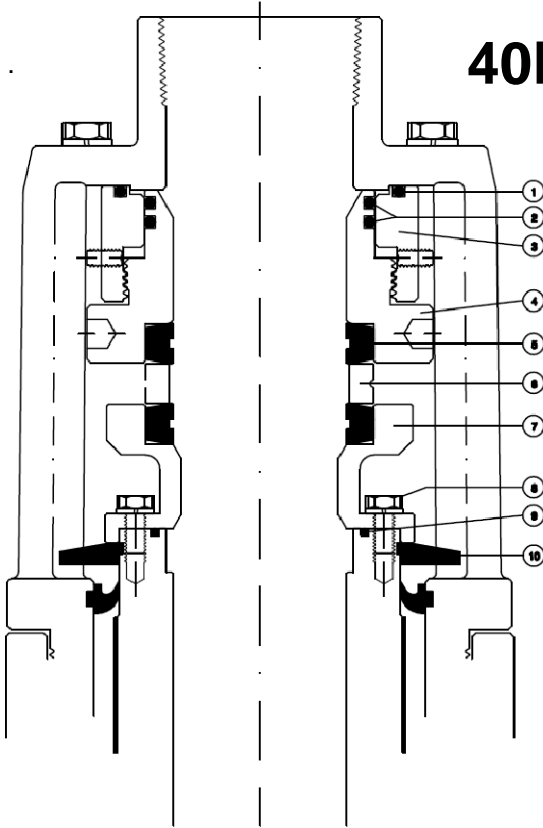
PART NUMBER	NAME	QTY. REQ.	
<b>40RM-6001-XXX</b>	SWIVEL, 3" NPT FEMALE STRAIGHT UP, 2" OD TRUNNION PINS 815/16" SHOULDER TO SHOULDER, WINDOW 45 LEFT OF TRUNNION PIN, 3 ½" IF LH PIN (MOD) LOWER CONNECTION LOW PRESSURE PACKING		
40PGIR-18A	BOLTS W/LOCK WASHER	4	
40PGIR-04RM	GOOSENECK, 3" NPT FEMALE, STR. UP	1	
OR-350	O RING, PACKING BOX	1	
OR-346	O RING, PACKING GLAND	1	
OR-344	O RING, PACKING GLAND	1	
5JW-20-416	PACKING SET, LOW PRESSURE	1	
5JW-20	PACKING SET	OPTION	
40RM-18	PACKING BOX	1	
40RM-19	PACKING GLAND	1	
5JW-21	LANTERN RING	1	
5JW-06	PACKING ADJUSTING GLAND	1	
40RM-25	WASHPIPE	1	
40RM-26	SLINGER RING	1	
OR-238	O RING, WASHPIPE	1	
40PG-07	HOUSING SEAL	3	
15WX-15	LOCK BOLT AND NUT	1	
30WX-09	SEAL, SHIELD	1	
5JW-11	WIRE, RETAINER	1	
30WX-10	SHIELD, BEARING	1	
40RM-08	BEARING SPINDLE	1	
5JW-12	BEARINGS	5	
40PG-14A	BEARING HOUSING, WITH 2" TRUNNION PINS	1	
25AM-16A-1	SET SCREWS	4	
OR-236	O RING	1	
5JW-17	SPINDLE THREAD SEAL	1	
40RM-16JE-LP	LOWER CONNECTION, 3 ½" IF LH PIN (MOD)	1	
25CHD-25A	BOLT, WASHPIPE	4	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 40RM – 50 RR



**40RM-50-RR**  
Low Pressure Pkg. Assy.

Bill Of Materials			
Item #	Part #	Description	Qty. Req'd.
1	OR - 350	O - Ring	1
2	OR - 342	O - Ring	2
3	T-2W-18RR	Plate, Top	1
4	T-2W-19RR	Gland, Adjusting	2
5	6JW-05, 6JW-05-90	Packing Standard, Packing 90 Duco (Red)	2 Option
6	6JW-06	Wear Bushing	1
7	40RM-21-RR	Box, Lower Packing	1
8	25CHD-25A	Bolt (Not Included With P/N 40RM-50-RR)	4
9	OR - 248	O - Ring	1
10	40RM-25	Slinger (Not Included With P/N 40RM-50-RR)	1

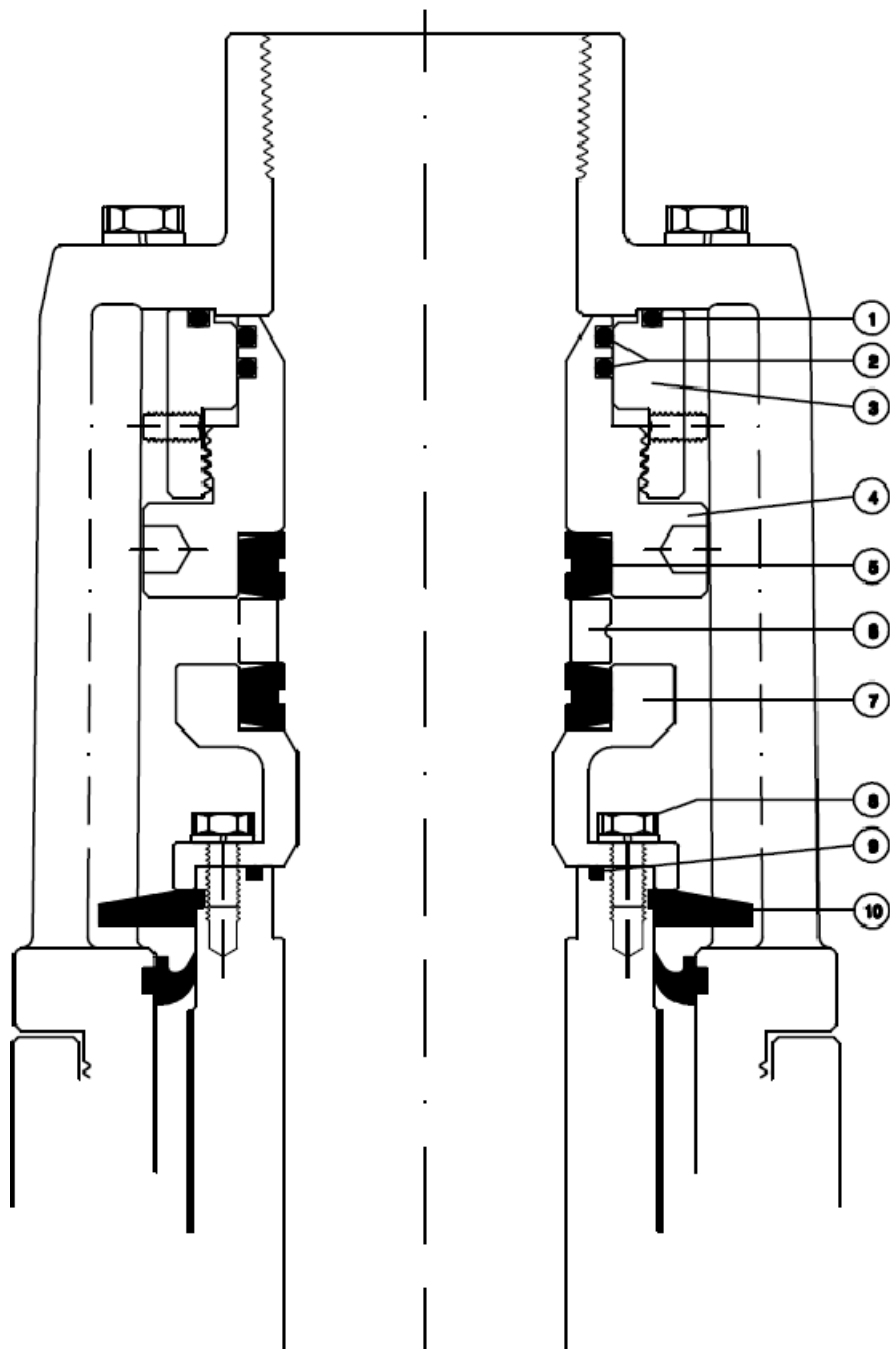
- Fits 40RM Swivel
- Working Pressure from 0 – 350 PSI
- Adjustable Packing
- Packing can be changed without removing capsule
- Rubber Ring Packing

### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	PRICE
<b>40RM-50RR</b>	<b>RUBBER RING PACKING ASSEMBLY</b>		<b>1811.70</b>
6JW-05	PACKING	2	15.34 ea
6JW-05-90	PACKING, 90 DURO (RED)	OPTION	15.34
6JW-06	WEARBUSHING	1	59.31
T-2W-18RR	TOP PLATE	1	926.31
T-2W-19RR	GLAND, ADJUSTING	1	595.57
40RM-21-RR	BOX, LOWER PACKING	1	765.34
25CHD-25A	BOLT	4	5.60 ea
OR-350	O RING	1	4.00
OR-342	O RING	2	4.00 ea
OR-248	O RING	1	4.00

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.

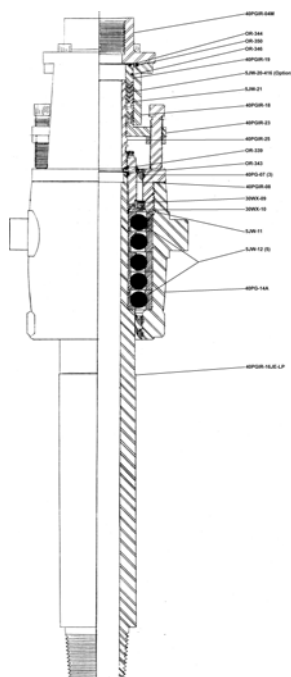


**40RM-50-RR  
Low Pressure Pkg. Assy.**

Bill Of Materials			
Item #	Part #	Description	Qty. Req'd.
1	OR - 390	O - Ring	1
2	OR - 342	O - Ring	2
3	T-2W-18RR	Plate, Top	
4	T-2W-18RR	Gland, Adjusting	2
5	6JW-05, 6JW-05-80	Packing Standard, Packing 90 Duro (Red)	2 Option
6	6JW-06	Wear Bushing	1
7	40RM-21-RR	Box, Lower Packing	1
8	25CHD-25A	Bolt (Not Included With P/N 40RM-50-RR)	4
9	OR - 238	O - Ring	1
10	40RM-28	Slinger (Not Included With P/N 40RM-50-RR)	1



## 40 PGIR



- Being replaced with 40RM
- Fits all TH-75 and TH-75E
- Grease lubricate and adjustable Chevron packing
- Full 3" fluid passage
- Available wear tube

### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
40 ½	8 15/16	280	3" NPT	3 ½ IF (MOD)	3"	TO 1500 PSI

### WEIGHT CAPACITY

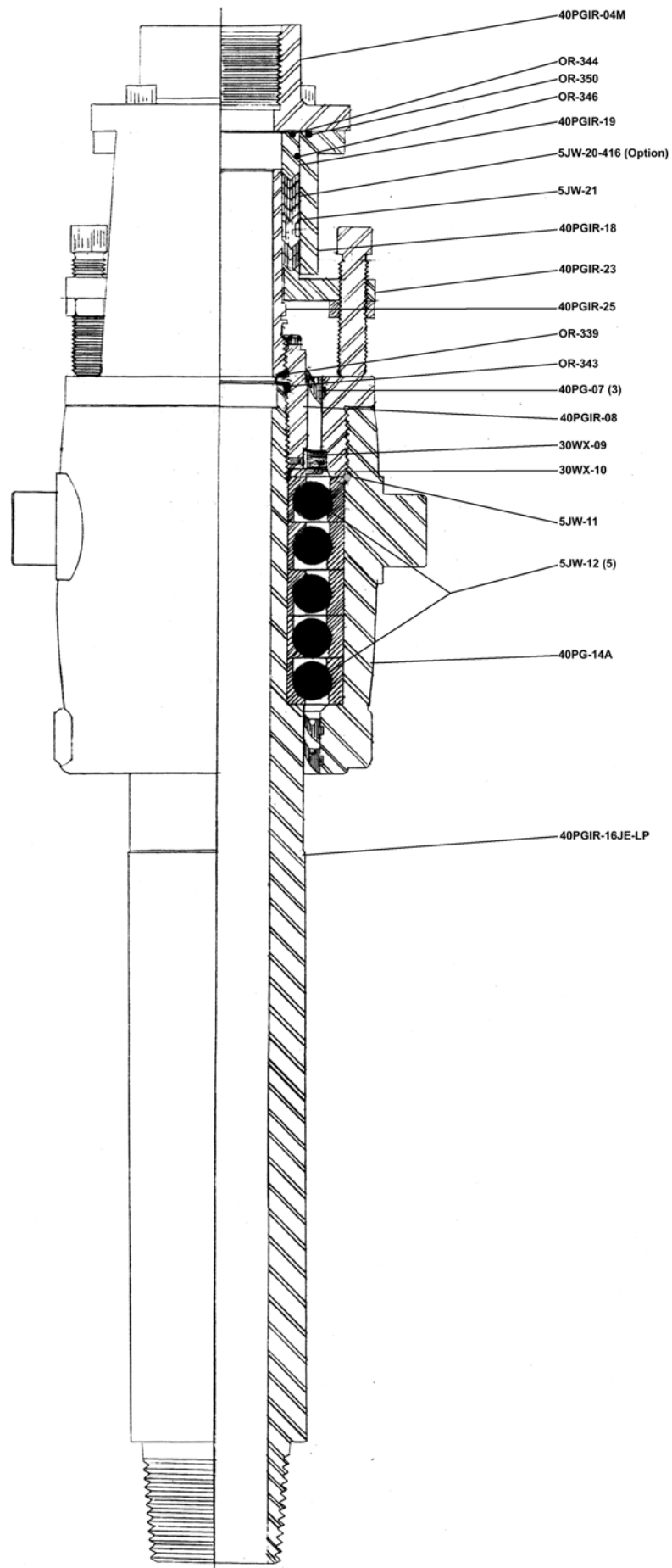
STATIC	ROTATING
140,000 LBS	71,000 LBS @ 100 RPM

### PARTS LIST

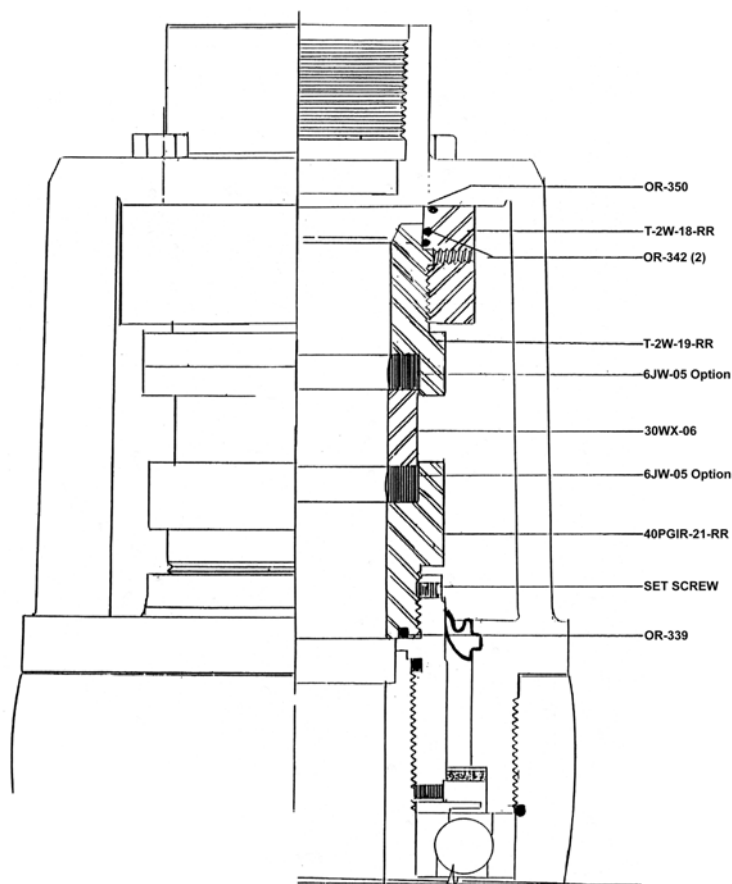
PART NUMBER	NAME	QTY. REQ.	
<b>40PGIR-6000-XX</b>	WESTERN SWIVEL, FOR TH-75 DRILL, 3" NPT H/C, STRAIGHT UP, (2) 2" OD TRUNNION PINS ON 8 15/16" SHOULDERS, WITH 3 ½" IF (MOD) LH PIN LOWER CONNECTION LH PIN LOWER CONNECTION		
40PGIR-04RM	GOOSENECK, 3" NPT FEMALE		
40PG-07	HOUSING SEAL	3	
40PGIR-08 SN	SPINDLE NUT, (NEW STYLE)	1	
40PGIR-08 SN-A	SET SCREW, SPINDLE NUT	2	
30WX-09	SHIELD SEAL	1	
30WX-10	BEARING SHIELD	1	
5JW-11	BEARING RETAINER WIRE	1	
5JW-12	BEARING	5	
40PG-14A	BEARING HOUSING, 2" PINS, 8 15/16" SHOULDERS	1	
15WX-15	HOUSING LOCK BOLT AND NUT	1	
40PGIR-16JE-LP	SPINDLE, LONG, W / 3 ½" IF (MOD) LH PIN	1	
40PGIR-18	PACKING BOX	1	
40PGIR-18A	BOLTS W/WASHERS, PACKING BOX	4	
40PGIR-19	PACKING GLAND	1	
5JW-20	PACKING SET	OPTION	
5JW-20-416	PACKING SET, LOW PRESSURE	1	
5JW-21	LANTERN RING	1	
40PGIR-23	PACKING ADJUSTING GLAND	1	
40PGIR-24	ADJUSTING SCREW WITH NUT	2	
40PGIR-25	WASHPIPE	1	
OR-339	O-RING, WASHPIPE	1	
OR-343	O-RING, THREAD SEAL	1	
OR-344	O-RING, PACKING GLAND	1	
OR-346	O-RING, PACKING GLAND	1	
OR-350	O-RING, PACKING BOX	1	
40PGIR-70WT	WEAR TUBE	OPTION	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 40 PGIR-50RR



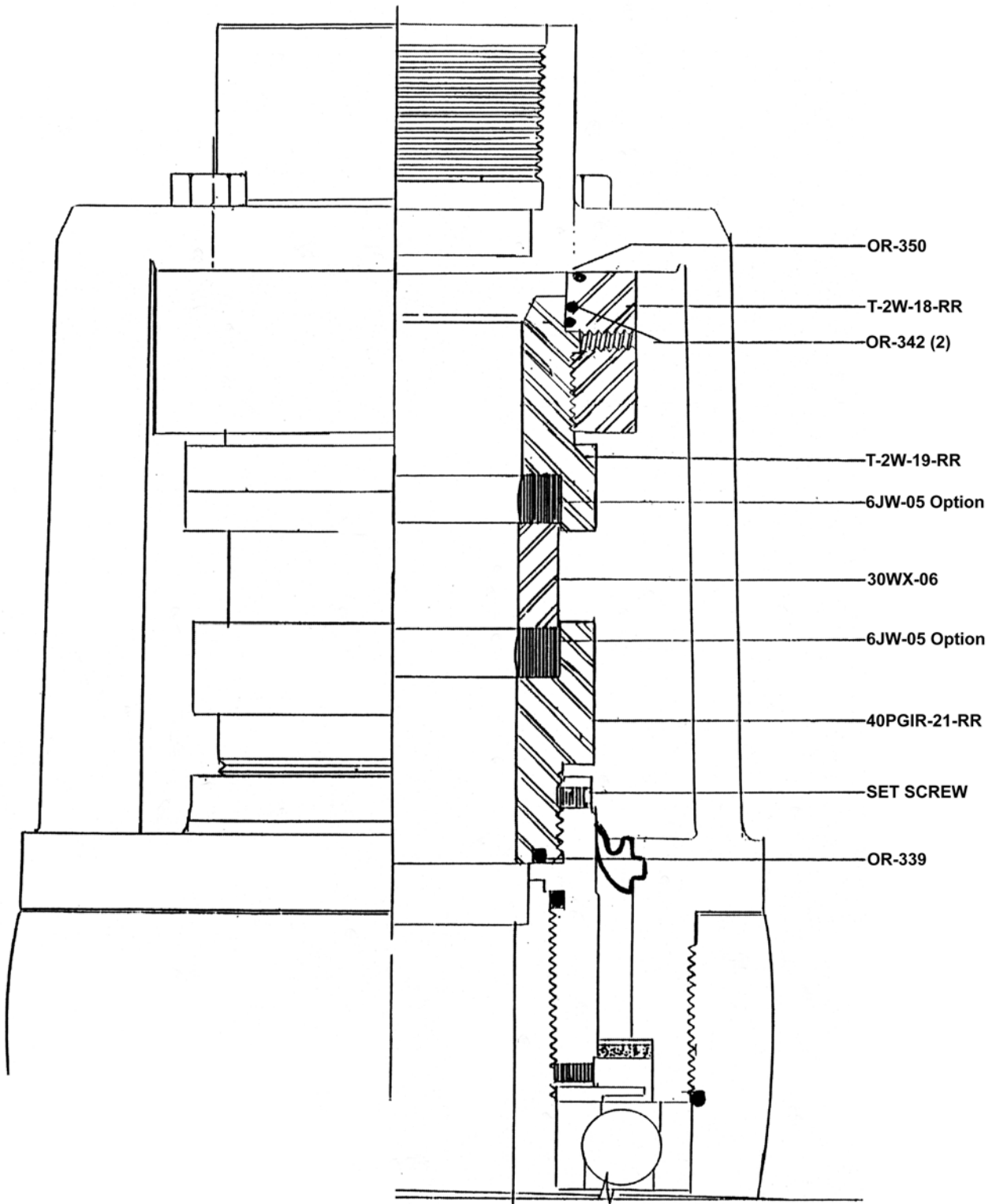
- Fits 40PGIR Swivel
- Working Pressure From 0 to 350 PSI
- Adjustable Packing
- Packing can be changed without removing capsule
- Rubber ring packing

### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>40PGIR-50RR</b>	RUBBER RING PACKING ASSEMBLY (COMPLETE)	Option	
30WX-06	WEARBUSHING	1	
6JW-05	PACKING	2	
6JW-05-90	PACKING, 90 DURO (RED)	Option	
40PGIR-21-RR	NUT, ADAPTER (RUBBER RING)	1	
T-2W-18-RR	PLATE, TOP (FOR ADJUSTING GLAND)	1	
T-2W-19-RR	GLAND, ADJUSTING	1	
OR-339	O RING (ADAPTER NUT)	1	
OR-342	O RING (ADJUSTING GLAND)	2	
OR-350	O RING (TOP PLATE)	1	
	SET SCREW (TOP PLATE)	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 60DWS

- Designed for well servicing and shallow oilfield drilling
- Grease lubricated Chevron packing
- Floating (self aligning) washpipe
- Oil lubricated bearings
- Three (3) bearing design:  
Tapered roller-upthrust/alignment  
Full apex roller – main  
Needle roller – alignment

### TECHNICAL

PACKING	LENGTH	WT/LB	HOSE CONN.	LOWER CONN.	WORKING PRESSURE	FLUID OPENING
Chevron	60 13/32	400	2 1/2" NPT	2 7/8 EUE LH	TO 3000 PSI	2"

### WEIGHT CAPACITY

STATIC LOAD	ROTATING LOAD	DRILL DEPTH	SIZE/WT/LB
120,000	60,000 @ 100 RPM	6000 FT 4000 FT	2 3/8" / 6.65 2 7/8" / 10.4

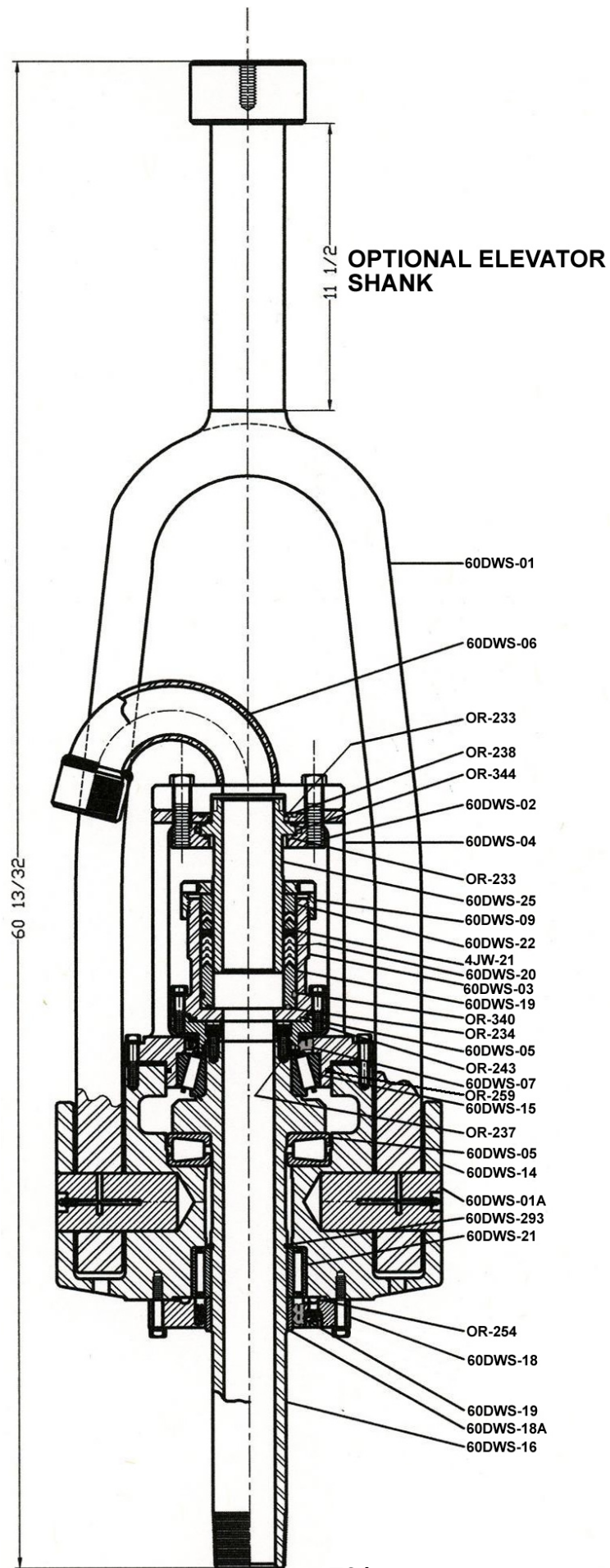
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	PRICE
60DWS-01	BAIL	OPTION	
60DWS-06	GOOSENECK	OPTION	
OR-259	O RING	2	<b>C</b>
OR-344	O RING	1	
60DWS-02	UPPER FLANGE	1	
60DWS-04	BONNET	1	<b>O</b>
OR-233	O RING	1	
60DWS-25	WASHPIPE	1	
60DWS-09	GLAND, PACKING ADJ.	1	<b>N</b>
OR-340	O RING	2	
60DWS-19	GLAND, PACKING	1	
4JW-21	RING, LANTERN	1	<b>S</b>
60DWS-20	PACKING SET	1	
60DWS-03	BOX, PACKING	1	
60DWS-22	RING, PACKING SEAT	1	<b>U</b>
OR-238	O RING	1	
60DWS-05	ADAPTER, SPINDLE	1	
OR-243	O RING	1	<b>L</b>
60DWS-07	SEAL, UPPER	1	
OR-237	O RING	1	
60DWS-14	HOUSING, BEARING	1	<b>T</b>
60DWS-01A	PIN, BAIL	2	
60DWS-293	RING, RETAINER	1	
60DWS-15	BEARING, UPPER	1	<b>T</b>
60DWS-05	BEARING, MAIN	1	
60DWS-21	BEARING, LOWER	1	
OR-254	O RING	1	<b>T</b>
60DWS-18	BOX, OIL	1	
60DWS-19	SEAL, LOWER	2	
60DWS-18A	SLEEVE, WEAR	1	<b>T</b>
60DWS-16GU-LP	SPINDLE, 2 7/8" EUE LH PIN	1	
OR-233	O RING	1	

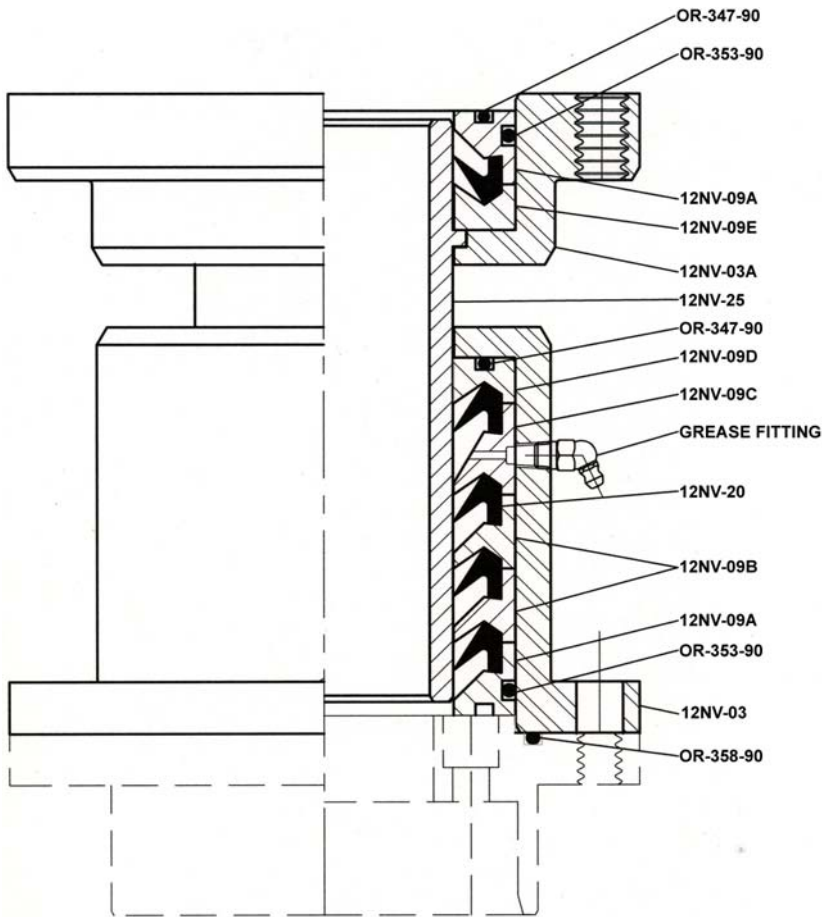
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 12NV, 15NV, 30 NV PACKING CAPSULE



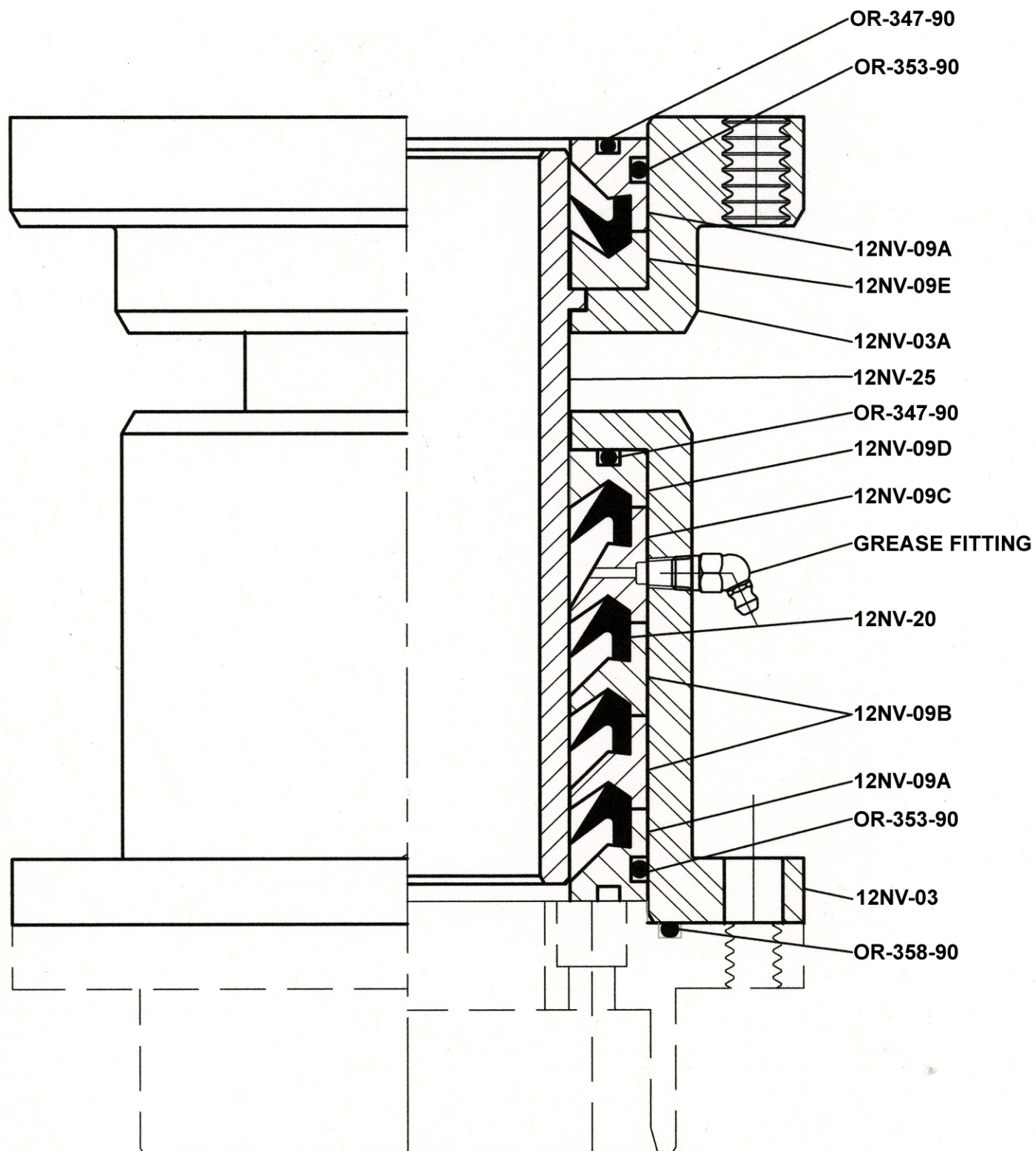
- Fits the "King" 15 MB, 25 MB, 35 MB, 50 MB

### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>12NV-40</b>	<b>PACKING CAPSULE COMPLETE</b>		
12NV-03	PACKOFF BOX	1	
12NV-03A	UPPER PACKING FLANGE	1	
12NV-09A	BOTTOM RING	2	
12NV-09B	SECOND & THIRD RING	2	
12NV-09C	GREASE RING	1	
12NV-09D	UPPER RING	1	
12NV-09E	UPPER LOCK RING	1	
12NV-25	WASHPIPE	1	
12NV-20	PACKING	1	
OR-347-90	O RING	3	
OR-353-90	O RING	2	
OR-358-90	O RING	1	
	1/8" NPT GREASE FITTING	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





# 12 NV DRILLING SWIVEL (120 TON)



- Oilfield tough
- Pressure seal lip type packing
- Ball bearing upthrust
- Main bearing – Full Apex roller
- Oil lubrication – 2.5 gallons
- Two (2) needle roller bearings for maximum shaft alignment
- Saver sub to 4 ½ Reg LH pin or optional 6 5/8" Reg LH pin
- Shank adapter available

## TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
84	22"	1950	4" L.P.	4 ½" EUE 8 RD LH PIN	3	TO 4500 PSI

## WEIGHT CAPACITY

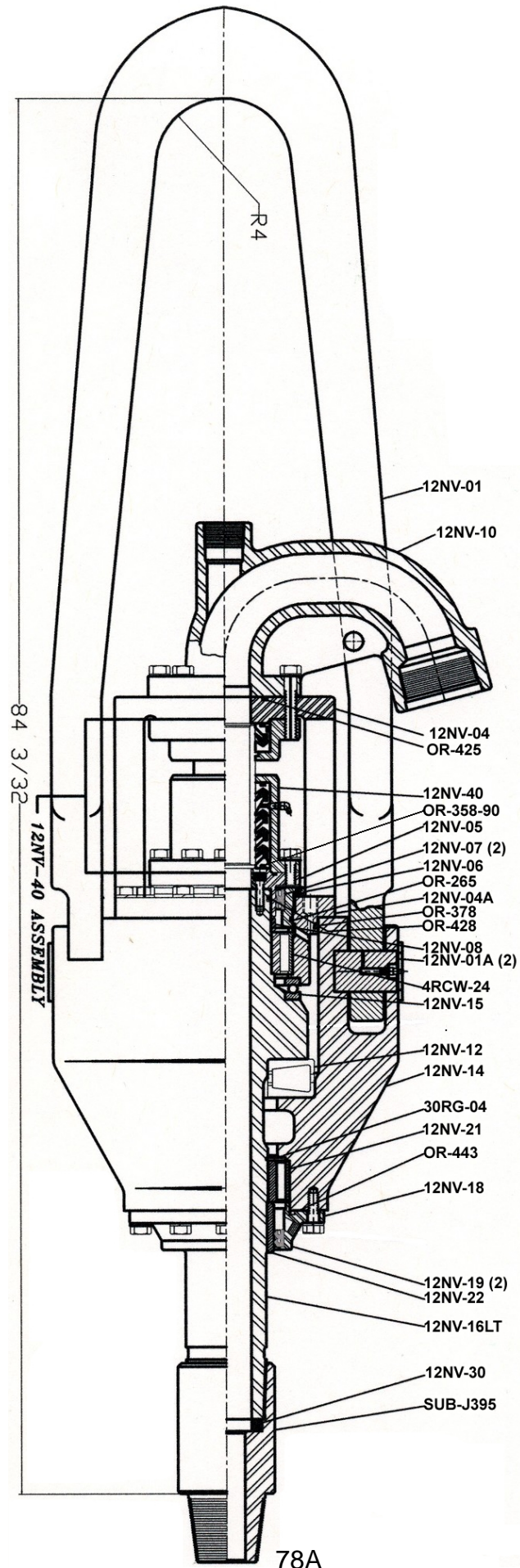
STATIC	ROTATING
120 TONS	78 TONS @ 100 RPM (API)

## PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>12NV-6710-XX</b>	SWIVEL, BAIL, 4" LINE PIPE HOSE CONNECTION, 2" NPT FEMALE WIRELINE PASSAGE, 4 ½" REG LH PIN SAVER SUB		
12NV-01	BAIL	1	
12NV-01A	BAIL PIN	2	
12NV-02	RETAINER, BAIL PIN	2	
12NV-04	BONNET	1	
12NV-04A	SHIM SET	1	
12NV-05	ADAPTER, SPINDLE	1	
12NV-05A	BOLT, ADAPTER SPINDLE	8	
12NV-06	BEARING RETAINER	1	
12NV-07	UPPER HOUSING SEAL	2	
12NV-08	UPPER BEARING SPACER	1	
12NV-12	BEARING, MAIN	1	
12NV-14	BEARING HOUSING	1	
12NV-15	UPTHRUST BEARINGS	1	
12NV-16LT	STEM, 4 ½" EUE LH PIN	1	
12NV-18	LOWER OIL BOX	1	
12NV-19	LOWER OIL SEALS	2	
12NV-21	LOWER ALIGNMENT BEARING ASSEMBLY	1	
12NV-22	WEAR SLEEVE	1	
12NV-30	SUB SEAL	1	
12NV-10	GOOSENECK	1	
SUB-B131	SUB, 4 ½" EUE LH BOX by 4 ½" REG LH PIN	OPTION	
30RG-04	BEARING RETAINER	1	
4RCW-24	UPPER ALIGNMENT BEARING	1	
OR-265	O RING	1	
OR-378	O RING (BONNET)	1	
OR-425	O RING (GOOSENECK)	1	
OR-428	O RING (SPINDLE)	1	
OR-443	O RING (OIL BOX)	1	
12NV-40	PACKING CAPSULE	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







**12NV**  
120 Ton

**12NV OILFIELD TOUGH. 5,000 PSI.**

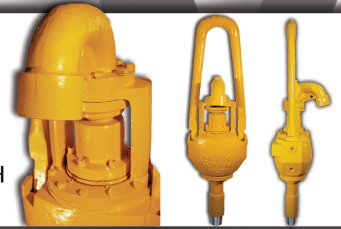
**WEIGHT CAPACITY**

Static Load	Rotating Load (@ 100 rpm)
120 tons	78 tons

**TECHNICAL DATA**

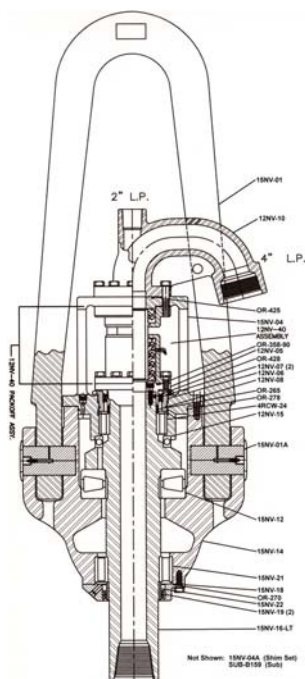
Max Pressure (psi.)	Weight (lbs.)	Dimensions (in.)				
		Overall	Width	Hose Connection	Lower Connection	Fluid Passage
5,000	1,950	84"	22"	4" Line-Pipe	4 1/2" EUE 8rd left-hand pin	3"

The 12NV is oilfield tough. With a maximum working pressure of 4,500 PSI, this 1,950lb. swivel has a pressure seal lip type packing, which takes 2.5 gallons of oil for lubrication. The main bearings are full apex roller bearings, along with two needle roller bearings for maximum shaft alignment. The 12NV is complete with a saver sub, of up to 4 1/2 Reg LH pin, or an optional 6 5/8 Reg LH pin. Also, a shank adapter is available.



## 15 NV

- Oilfield tough
- Pressure seal lip type packing
- Ball bearing upthrust
- Main bearing – Full Apex roller
- Oil lubrication – 4.5 gallons
- Two (2) needle roller bearings for maximum shaft alignment
- Saver sub to 4 ½" Reg LH pin
- Shank adapter available



### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
93"	27"	3960#	4" FEMALE LINE PIPE	5 ½" REG LH BOX	3"	TO 4500 PSI

### WEIGHT CAPACITY

STATIC	ROTATING
150 TONS	97 TONS @ 100 RPM (API)

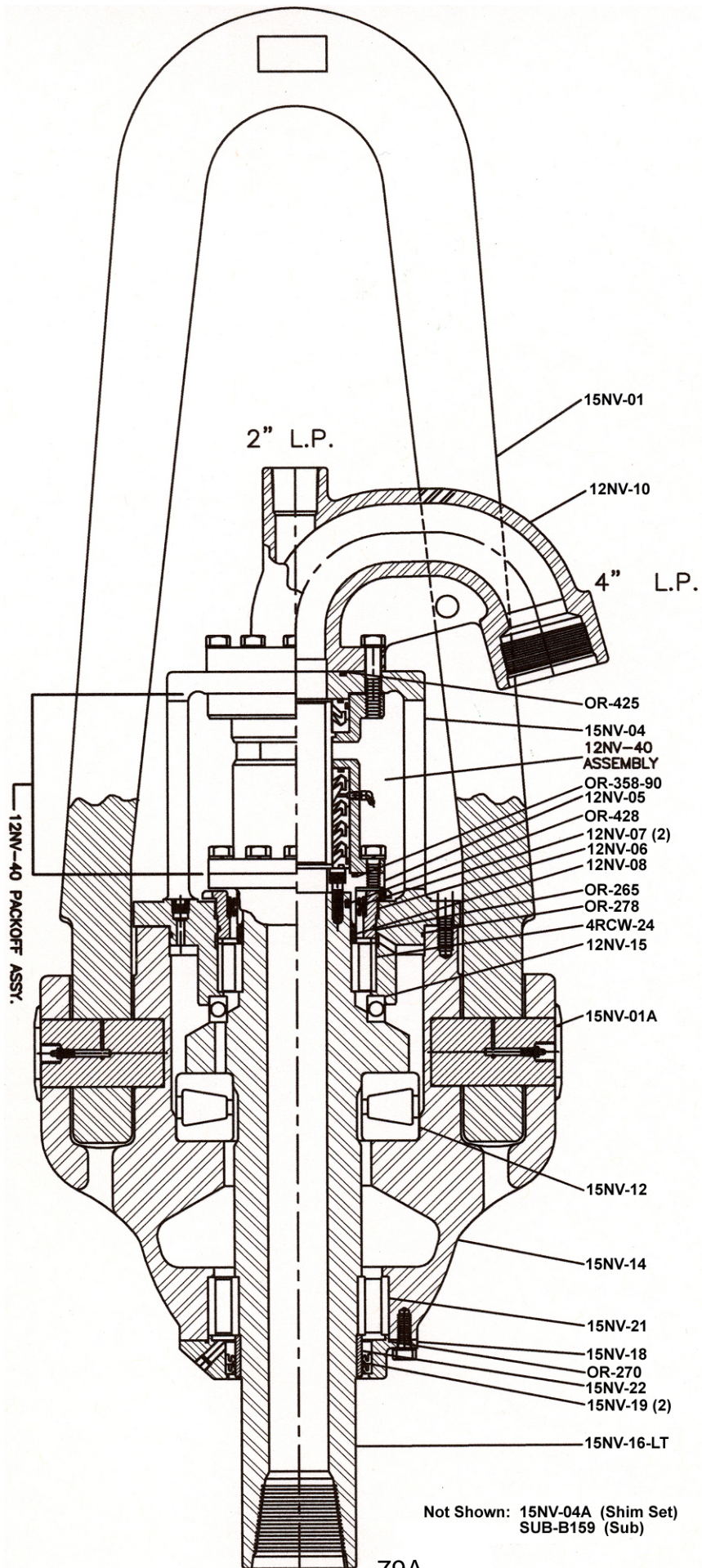
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>15NV-6720-XX</b>	<b>SWIVEL, BAIL, 4" LINE PIPE HOSE CONNECTION, 2" NPT FEMALE WIRELINE PASSAGE, 4 ½" FULL HOLE LH BOX STEM WITH 6 5/8" REG LH PIN SAVER SUB</b>		
15NV-01	BAIL	1	
15NV-01A	BAIL PIN	2	
15NV-02	RETAINER, BAIL PIN	2	
15NV-04	BONNET	1	
15NV-04A	SHIM SET	1	
12NV-05	ADAPTER SPINDLE	1	
12NV-05A	BOLT, ADAPTER SPINDLE	8	
12NV-06	RETAINER, BEARING	1	
12NV-07	SEAL, UPPER HOUSING	2	
12NV-08	SPACER, UPPER BEARING	1	
15NV-12	BEARING, MAIN	1	
15NV-14	HOUSING, BEARING	1	
15NV-14B	BUMPER PADS RUBBER	OPTION	
12NV-15	BEARING, UPTHURST	1	
15NV-16-LT	STEM, 4 ½" FH LH BOX	1	
15NV-18	BOX, LOWER OIL	1	
15NV-19	SEAL, LOWER OIL	2	
15NV-21	BEARING, LOWER ALIGNMENT	1	
15NV-22	SLEEVE, WEAR	1	
12NV-10	GOOSENECK	1	
SUB-B159	SUB, 4 ½" FH LH PIN BY 6 5/8" REG LH PIN	1	
4RCW-24	BEARING, UPPER ALIGNMENT	1	
12NV-40	PACKING CAPSULE	1	
OR-425	O RING (GOOSENECK)	1	
OR-358-90	O RING (SPINDLE ADAPTER)	1	
OR-428	O RING (STEM)	1	
OR-265	O RING (BEARING RETAINER)	1	
OR-278	O RING (BONNET)	1	
OR-270	O RING (OIL BOX)	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







## 30 NV

- Oilfield tough
- Pressure seal lip type packing
- Ball bearing upthrust
- Main bearing – Full Apex roller
- Oil lubrication – 7 gallons
- Two (2) needle roller bearings for maximum shaft alignment
- Saver sub to 6 5/8 Reg LH pin
- Shank adapter available

### TECHNICAL

LENGTH	WIDTH	WEIGHT	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
93"	33"	3960	4" LP 8- rd	5 1/2" REG LH BOX	3"	TO 4500 PSI

### WEIGHT CAPACITY

STATIC	ROTATING
300 TONS	193 TONS @ 100 RPM (API)

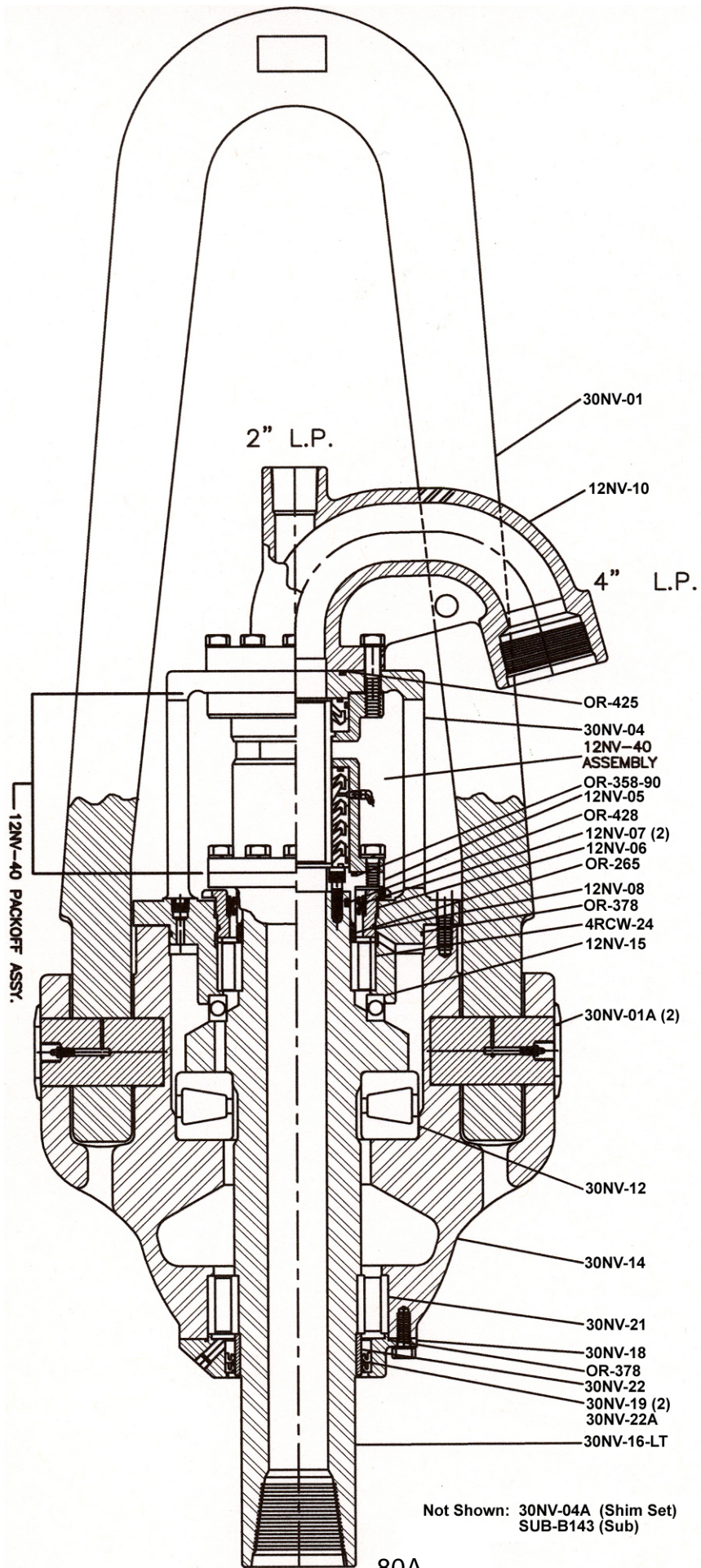
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
30NV-6720-XX	SWIVEL, BAIL, 4" LINE PIPE HOSE CONNECTION 2" NPT FEMALE WIRELINE PASSAGE, 5 1/2" REG LH BOX STEM CONNECTION WITH 6 5/8" REG LH PIN SAVER SUB		

Other sizes of connections available, please consult factory.

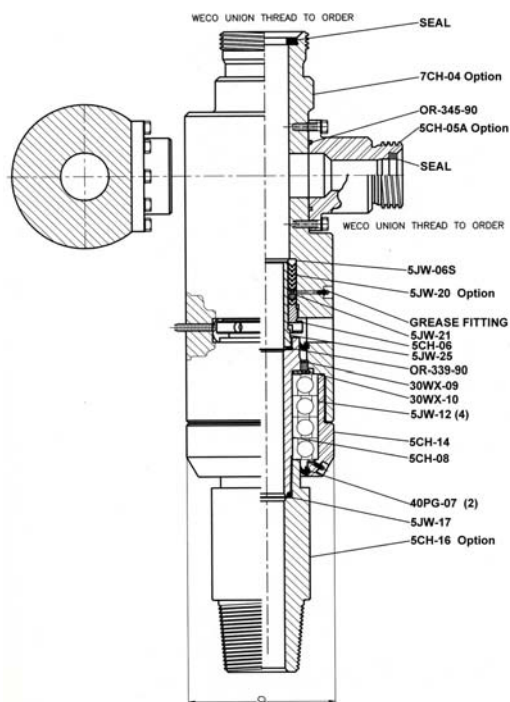
Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.







## 7CH – 10,000 PSI RATED



- Circulating head
- Alloy steel construction
- Angular contact ball bearing for ample pressure and radial load support
- Grease lubricated bearing
- Grease lubricated & adjustable Chevron packing
- Optional connections available

### TECHNICAL

LENGTH	WIDTH	WEIGHT	UPPER CONN.	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
38	9	315#	WECO TYPE UNION	WECO TYPE UNION	4 1/2 IF RH PIN	2 7/8	TO 10,000 PSI

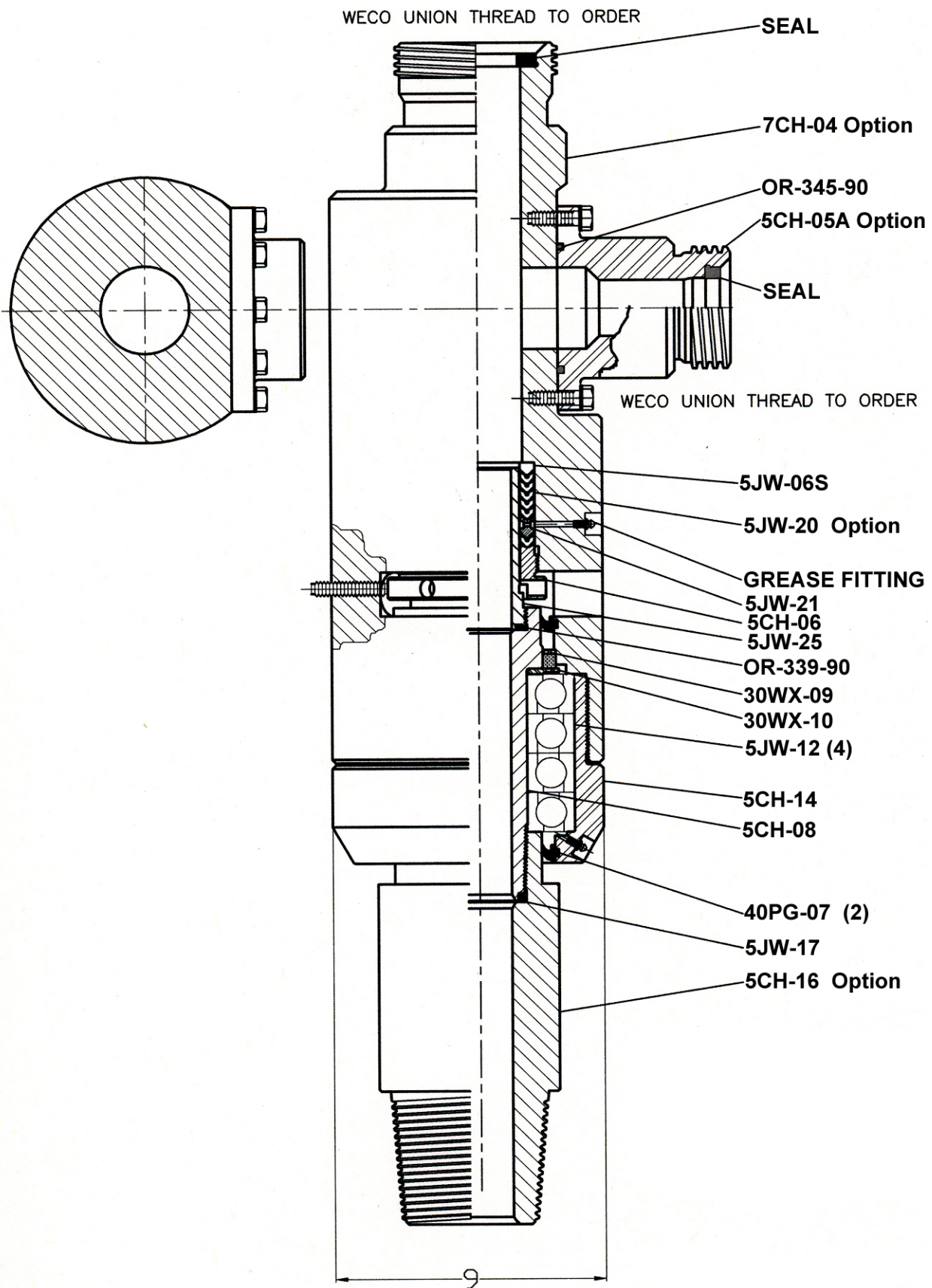
**WEIGHT CAPACITY  
DESIGNED FOR PRESSURE LOAD ONLY**

### PARTS LIST

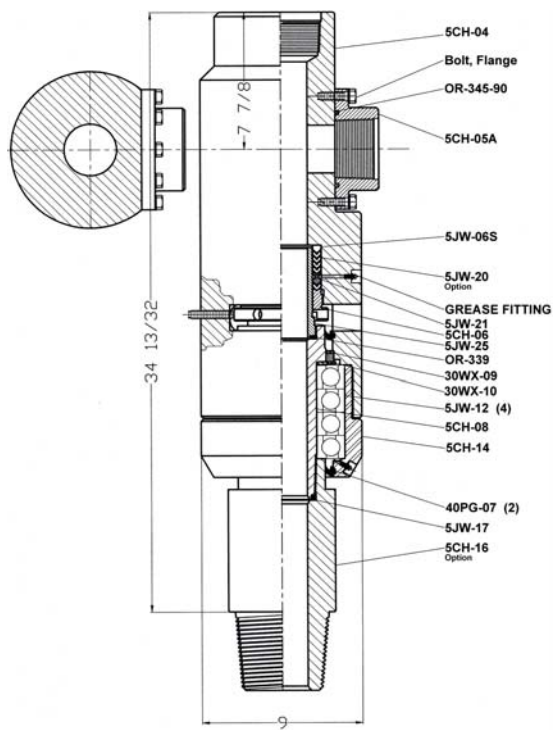
PART NUMBER	NAME	QTY. REQ.	
7CH-6930-XX	WESTERN CIRCULATING HEAD, INTEGRAL FEMALE SUB UNIONS FOR TOP AND BOLT ON (FLANGED) FEMALE SUB HOSE CONNECTION WITH 4 1/2" IF RH PIN LOWER CONNECTION		
	ADD FOR 3 1/2" IF RH PIN LOWER CONNECTION		
7CH-04	GOOSENECK	OPTION	
5CH-05C	HOSE CONNECTION, 3" 1502 FEMALE SUB	OPTION	
5JW-06S	ADAPTER, PACKING (STEEL)	1	
5JW-07	SEAL HOUSING	2	
5CH-08	SPINDLE, BEARING	1	
30WX-09	SEAL, SHIELD	1	
30WX-10	SHIELD, BEARING	1	
5JW-12	BEARING	4	
5CH-06	GLAND, PACKING ADJUSTING	1	
5CH-14	HOUSING, BEARING	1	
5CH-16KE-RP	LOWER CONNECTION, 4 1/2" IF RH PIN	1	
5CH-16JE-RP	LOWER CONNECTION, 3 1/2" IF RH PIN	OPTION	
5JW-17	SEAL, SPINDLE THREAD	1	
5JW-20-847	PACKING SET (HIGH PRESSURE)	1	
5JW-20	PACKING SET	OPTION	
5JW-21	RING, LANTERN	1	
5JW-25	WASHPIPE	1	
OR-339-90	O RING (WASHPIPE)	1	
OR-345-90	O RING (HOSE CONNECTION)	1	
15WX-15	BOLT, HOUSING LOCK W/NUT	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.



## 5CH – 6,000 PSI RATED



- Circulating head
- Alloy steel construction
- Angular contact ball bearing for ample pressure and radial load support
- Grease lubricated bearing
- Grease lubricated & adjustable Chevron V-ring packing
- Optional connection available

### TECHNICAL

LENGTH	WIDTH	WEIGHT	UPPER CONN.	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
34 1/2	9	285	4" L.P.	3" NPT	4 1/2" IF RH PIN	3	TO 6000 PSI

### WEIGHT CAPACITY

Designed for pressure load only

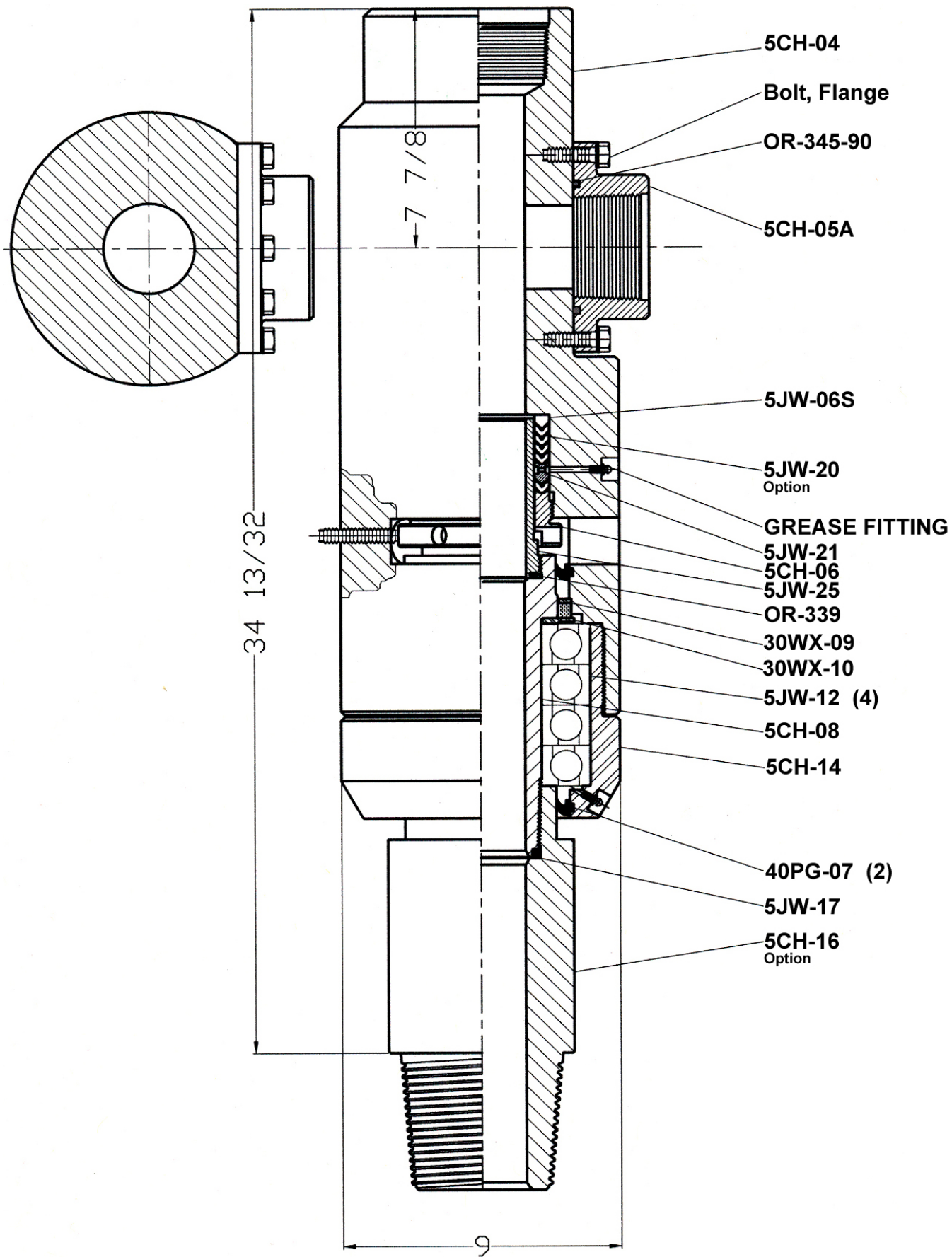
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>5CH-6920-XX</b>	WESTERN CIRCULATING HEAD, 4" FEMALE LINE PIPE UPPER CONNECTION, 3" NPT FEMALE HOSE CONNECTION WITH 4 1/2" IF RH PIN LOWER CONNECTION		
	ADD FOR 3 1/2" IF RH PIN LOWER CONNECTION		
5CH-04	GOOSENECK/BODY (LINE PIPE ONLY)	1	
5CH-05A	CONNECTION, HOSE, 3" NPT	1	
5CH-06	PACKING ADJUSTING GLAND	1	
5JW-07	HOUSING SEALS	2	
5CH-08	BEARING SPINDLE	1	
30WX-09	SHIELD SEAL	1	
30WX-10	BEARING SHIELD	1	
5JW-12	BEARINGS	4	
5CH-14	BEARING HOUSING	1	
15WX-15	HOUSING LOCK BOLT AND NUT	1	
5CH-16KE-RP	LOWER CONNECTION, (4 1/2" IF RH PIN)	1	
5CH-16JE-RP	LOWER CONNECTION, (3 1/2" IF RH PIN)	Option	
5JW-17	SPINDLE THREAD SEAL	1	
5JW-20	PACKING	1	
5JW-06S	PACKING SEAT RING, STEEL	1	
5JW-21	LANTERN RING	1	
5JW-25	WASHPIPE	1	
OR-339	O RING (WASHPIPE)	1	
OR-345-90	O RING (HOSE CONNECTION)	1	

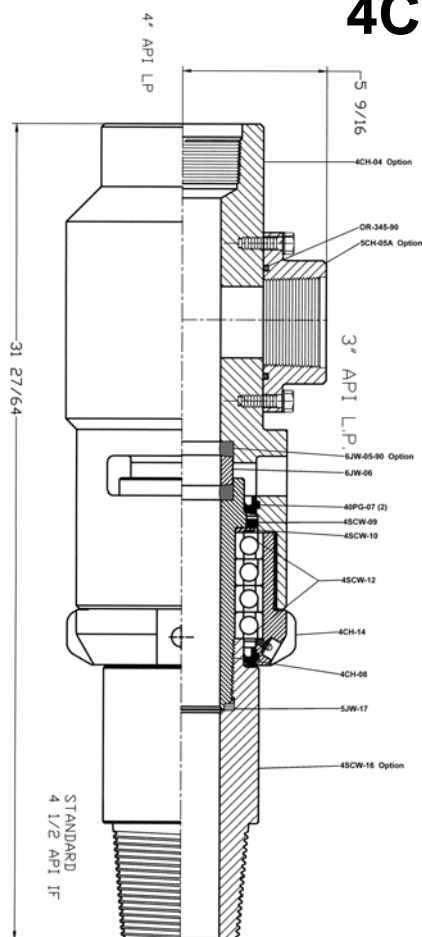
Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## 4CH – 3,000 PSI RATED



- Circulating head
- Alloy steel construction
- Angular contact ball bearings for ample pressure and radial load support
- Grease lubricated bearing
- Optional connection available

### TECHNICAL

LENGTH	WIDTH	WEIGHT	UPPER CONN.	HOSE CONN.	LOWER CONN.	FLUID PASSAGE	WORKING PRESSURE
34 1/2"	11"	232 LBS	4" LP FEMALE	3" NPT FEMALE	4 1/2" IF RH PIN	3"	TO 3000 PSI

### WEIGHT CAPACITY

Designed for pressure load only

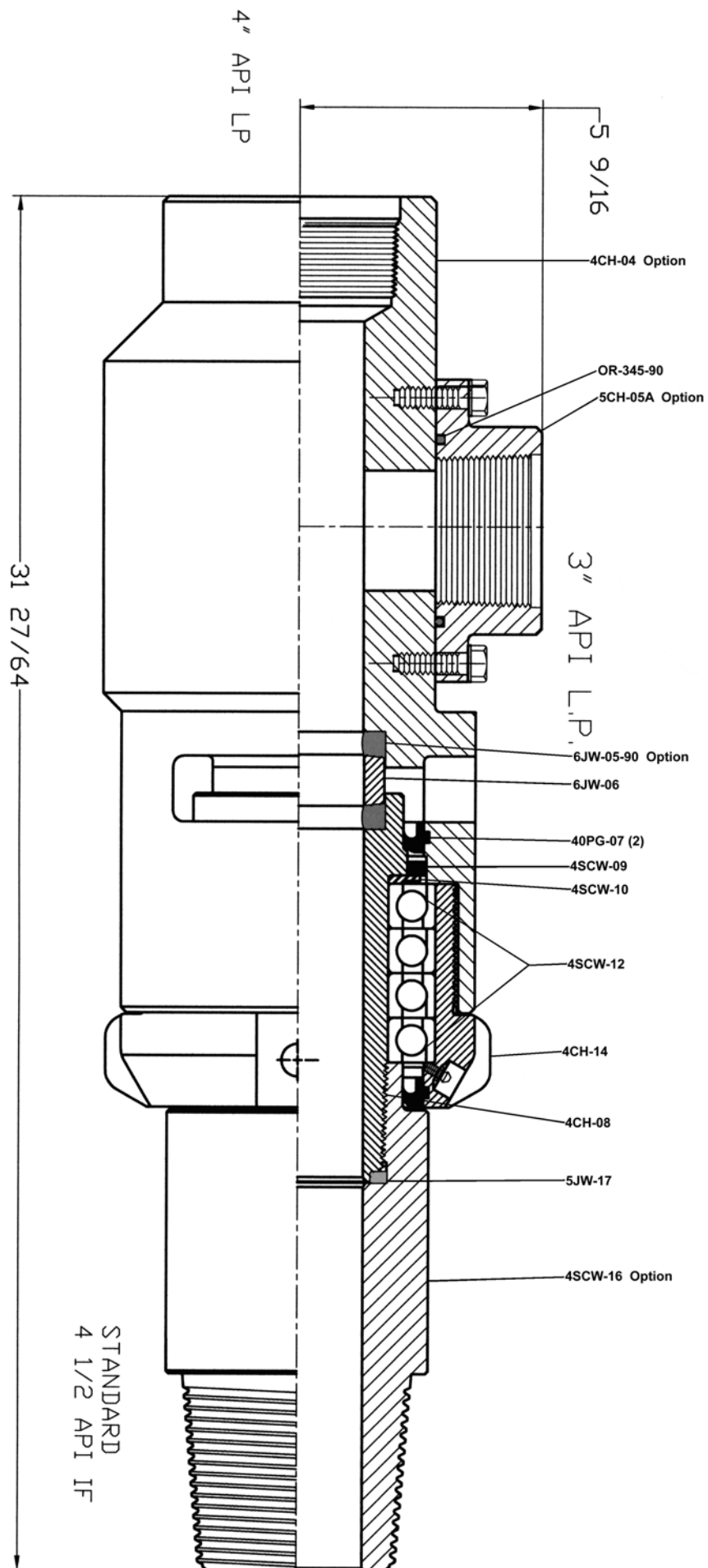
### PARTS LIST

PART NUMBER	NAME	QTY. REQ.	
<b>4CH-6910-XX</b>	WESTERN CIRCULATING HEAD, 4" FEMALE LINE PIPE UPPER CONNECTION, 3" NPT FEMALE HOSE CONNECTION WITH 4 1/2" IF RH PIN LOWER CONNECTION		
	ADD FOR 3 1/2" IF RH PIN LOWER CONNECTION		
4CH-04	GOOSENECK/BODY	1	
6JW-05-90	PACKING, 90 DURO	2	
6JW-06	WEARBUSHING	1	
40PG-07	HOUSING SEALS	2	
4CH-08	BEARING SPINDLE	1	
4SCW-09	SHIELD SEAL	1	
4SCW-10	BEARING SHIELD	1	
4SCW-12	BEARINGS (UPTHRUST AND DOWNTHRUST)	4	
4CH-14	BEARING HOUSING	1	
15WX-15	HOUSING LOCK BOLT AND NUT	1	
4SCW-16KE-RP	LOWER CONNECTION (4 1/2" IF RH PIN)	1	
4SCW-16JE-RP	LOWER CONNECTION (3 1/2" IF RH PIN)	Option	
5JW-17	SPINDLE THREAD SEAL	1	
5CH-05A	CONNECTION, HOSE (3" NPT FEMALE)	1	
OR-345-90	O RING (HOSE CONNECTION)	1	

Other sizes of connections available, please consult factory.

Option for above swivel, may affect pricing of complete swivel. Other options available, please consult factory.





## WATER SWIVEL REPLACEMENT PARTS

OUR PART NUMBER	DESCRIPTION	THEIR PART NUMBER	
W-P-118-014	PACKING, PORTADRILL	118-014	
W-102F800	PACKING, FAILING	102F800	
W-2.0GD-PKG	2" SWIVEL PACKING, GARDNER DENVER	147732	
W-1.5GD-PKG	1 ½" SWIVEL PACKING, GARDNER DENVER	101443	
W-1.2GD-PKG	1 ¼" SWIVEL PACKING, GARDNER DENVER	121414	
W-2.0SS-PKG	2" SWIVEL PACKING SPEEDSTAR	K-3163	
W-S-3372	PACKING SET, SPEEDSTAR	K-3372	
W-S-3025	PACKING SET, FAILING	S-3025	
W-S-2012	PACKING SET, FAILING	S-2012	
W-K-3309	WEARBUSHING 3" ID	K-3309	
W-K-3376	PACKING SET SPEEDSTAR	K-3376	
W-K-3376-416	PACKING SET SPEEDSTAR (LOW PRESSURE)		
3LGW-20	PACKING SET, 3" LITTLE GIANT		
3LGW-20-416	PACKING SET, 3" LITTLE GIANT (LOW PRESSURE)		
5CRCW-05	PACKING	5CRC-05	
5CRCW-06	WEARBUSHING	5CRC-06	
5LWW-20	PACKING SET	5LW-20	

## REPLACEMENT STRIPPER and BOP RUBBER



6-5/8" FOAM RUBBER

7" FOAM RUBBER

SHORT HALL

TALL HALL

OCT, STUDDER

PETROMEC

JU

GUIBERSON, BOP

All available for 2-3/8", 2-7/8", and 3-1/2" tubing sizes

## CUSTOM MOLDING

WESTERN invites your inquiries on all special applications. Our engineering staff will be happy to assist in designing tooling and supplying a quality product to meet your rubber requirements.

## Other Replacement Swivel Parts Manufactured & Supplied by Western Rubber & Manufacturing

### 10XV & 10PXV

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION
10WX-05	10XV-05*	PACKING
10WX-06	10XV-06*	WEARBUSHING
10WX-07	10XV-07*	HOUSING SEAL
10WX-09	10XV-09*	SHIELD SEAL
10WX-10	10XV-10*	BEARING SHIELD
10WX-11	10XV-11	RETAINER WIRE
10WX-12	10XV-12*	BEARING
OR-Q-327	10XV-17*	SPINDLE THREAD SEAL
10WX-40	10XV-40	MAINTENANCE KIT (8 10WX-05 & 1 10WX-06)
10WX-40R	10XV-40R	REPAIR KIT (PACKING, SEALS, & BEARINGS)

### 15KF

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
15KFW-10	15KF-10	BEARING SHIELD	
15KFW-12	15KF-12	BEARINGS	

### 10KM

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
10WM-02	10KM-02*	WEARBUSHING RETAINER	
10WM-05	10KM-05*	PACKING	
10WM-06	10KM-06*	WEARBUSHING	
10WM-08	10KM-08	BEARING SPINDLE	
10WM-40	10KM-40	MAINTENANCE KIT (8 10WM-05, 1 10WM-06)	
10WM-40R	10KM-40R	REPAIR KIT (PACKING, W/B RETAINER, SEALS & BEARINGS)	

Products described herein are manufactured by WESTERN RUBBER. These replacement parts are in no way sponsored by or authorized by the original equipment manufacturer.

## Other Replacement Swivel Parts Manufactured & Supplied by Western Rubber & Manufacturing

### 2KM

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
2WM-05	2KM-05	PACKING	
2WM-06	2KM-06	WEARBUSHING	
2WM-08	2KM-08	BEARING SPINDLE	
OR-Q-326	2KM-17	THREAD SEAL	
2WM-16FD-LP	2KM-16	LOWER CONNECTION 2 3/8 OD 8V LH PIN	
2WM-40	2KM-40	MAINTENANCE KIT (8 2WM-05, 1 2WM-06)	

### 25WG

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
25WGW-06	25WG-06	WEARBUSHING	
25WGW-08	25WG-08	BEARING SPINDLE	
25WGW-16JG-LP	25WG-16	LOWER CONNECTION 3 1/2 FULL HOLE LH PIN	

### 2.5BL

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
2.5BLW-08	2.5BL-08	BEARING SPINDLE	
5CH-06	2.5BL-06	ADJ. NUT, PACKING	

### 4RC

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
4WC-05	4RC-05	PACKING BOX	
4RCW-07	4RC-07	WASHPIPE	
4RCW-08	4RC-08	PACKING SET	
4RCW-08-416		PACKING SET – LOW PRESSURE	
4RCW-09	4RC-09	PACKING GLAND	
4RCW-10	4RC-10	LANTERN RING	
4RCW-11	4RC-11	PACKING SEAT RING	

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## Other Replacement Parts Manufactured & Supplied by Western Rubber & Manufacturing

### 32GA SWIVEL PARTS

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
32GAW-06	32GA-06	GLAND BOLT & NUT	
32GAW-07	32GA-07	LANTERN RING	
32GAW-08	32GA-08	PACKING SET	
32GAW-09	32GA-09	WASHPIPE	
32GAW-14	32GA-14	UPPER SEAL	
32GAW-15	32GA-15	BEARING	
32GAW-16	32GA-16	BEARING SPACER	
32GAW-18	32GA-18	BEARING LOCKNUT	
32GAW-19	32GA-19	LOWER SEAL	

### 53GA SWIVEL PARTS

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
53GAW-06	53GA-06	GLAND BOLTS & NUTS	
53GAW-07	53GA-07	LANTERN RING	
53GAW-08	53GA-08	PACKING SET	
53GAW-09	53GA-09	WASHPIPE	
53GAW-14	53GA-14	UPPER SEAL	
53GAW-15	53GA-15	BEARINGS	
53GAW-16	53GA-16	SPACER, BEARING	
53GAW-18	53GA-18	BEARING LOCKNUT	
53GAW-19	53GA-19	LOWER SEAL	

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## Other Replacement Parts Manufactured & Supplied by Western Rubber & Manufacturing

### 75WP

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
75WPW-05	75WP-05	FELT SEAL	
75WPW-06	75WP-06	UPPER SEAL	
75WPW-08	75WP-08	BEARING SPACER	
75WPW-11	75WP-11	BEARING LOCKNUT	
75WPW-12	75WP-12	LOWER SEAL	
75WPW-13	75WP-13	WASHPIPE	
75WPW-15	75WP-15	PACKING SET	
13RG-05	75WP-16A	PACKING SEAT RING	
13RG-06	75WP-16B	LANTERN RING	
75WPW-16C	75WP-16C	PACKING GLAND	
75WPW-17	75WP-17	PACKING BOX	
75WPW-19	75WP-19	ADJUSTING RING, PACKING	

### 7.5LW SWIVEL “SPECIAL”

OUR PART NUMBER	THEIR PART NUMBER	DESCRIPTION	
7.5LWW-20	7.5LW-20	PACKING SET	
7.5LWW-20-416		PACKING SET, LOW PRESSURE	
7.5LWW-25		WASHPIPE	
7.5LWW-53		PACKING GLAND	
7.5LWW-54		LANTERN RING	
7.5LWW-55		PACKING SEAT RING	

Consult for all other replacement parts – Available.

***Other replacement parts for other manufactured swivels – Please Consult.  
Many are available***

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Products described herein are manufactured by WESTERN RUBBER. These replacement parts are in no way sponsored by or authorized by the original equipment manufacturer.

# DRILL ROD THREAD INFORMATION

A = OUTSIDE DIAMETER  
 B = MAJOR THREAD DIAMETER  
 C = LENGTH OF PIN  
 D = THREADS PER INCH  
 E = TAPER PER FOOT  
 F = TOOL JOINT BORE



TOOL JOINTS &  
CABLE TOOL DRILLING JOINTS

FLUSH JOINT STRAIGHT THREAD

NAME OF TOOL JOINT	ABBREVIATION	A	B	C	D	E	F
2-3/8 API REGULAR	2-3/8 REG	3-1/8	2-5/8	3	5	3	1
2-3/8 API REGULAR (DSI MOD)	2-3/8 REG	3	2-5/8	2-5/8	5	3	1-1/2
2-7/8 API REGULAR	2-7/8 REG	3-3/4	3	3-1/2	5	3	1-1/4
3-1/2 API REGULAR	3-1/2 REG	4-1/2	3-1/2	3-3/4	5	3	1-1/2
4-1/2 API REGULAR	4-1/2 REG	5-1/2	4-5/8	4-1/4	5	3	2-1/4
5-1/2 API REGULAR	5-1/2 REG	6-3/4	5-33/64	4-3/4	4	3	2-3/4
6-5/8 API REGULAR	6-5/8 REG	7-3/4	6	5	4	2	3-1/2
7-5/8 API REGULAR	7-5/8 REG	8-7/8	7	5-1/4	4	3	4
2-3/8 API INTERNAL FLUSH LH, RH	2-3/8 IF (LH OR RH)	3-1/2	2-7/8	3	4	2	1-3/4
2-7/8 API INTERNAL FLUSH LH, RH	2-7/8 IF (LH OR RH)	4-1/2	3-25/64	3-1/2	4	2	2-1/8
3-1/2 API INTERNAL FLUSH LH, RH	3-1/2 IF (LH OR RH)	4-3/4	4-1/64	4	4	2	2-11/16
4 API INTERNAL FLUSH	4 IF	5-3/4	4-53/64	4-1/2	4	2	3-1/4
4-1/2 API INTERNAL FLUSH	4-1/2 IF	6-1/8	5-1/4	4-1/2	4	2	3-3/4
2-3/8 MAYHEW JUNIOR	MAYHEW JUNIOR	2-3/4	2-21/64	2-1/4	4	2	1-1/2
2-3/8 MAYHEW REGULAR	MAYHEW	3-1/4	2-35/64	3	4	1-1/2	1-5/8
2-3/8 JOY FULL HOLE	REGULAR	3-1/8	2-35/64	3	4	1-1/2	1-5/8
2-3/8 FAILING EXPLORATION	3/8 JOY FH	2-31/32	2-1/2	2-3/4	4	2	1-1/2
2-7/8 FAILING EXPLORATION	2-3/8 FEDP	3-3/4	3-1/8	3-1/4	4	2	1-7/8
3-1/2 API FULL HOLE	2-7/8 FEDP	4-5/8	4	3-3/4	5	3	2-1/8
4 API FULL HOLE	3-1/2 FH	5-1/4	4-9/32	4-1/2	4	2	2-13/16
4-1/2 API FULL HOLE	4FH	5-3/4	4-51/64	4	5	3	3
	4-1/2 FH						
FLUSH JOINT STRAIGHT THREAD	ABBREVIATION	A	B	C	D	E	F
M - 50	M - 50	2	1-3/4	1-5/16	4	NO	1-3/16
E - ROD	E - ROD	1-5/16	1	1-1/2	3	NO	7/16
EW - ROD	EW - ROD	1-3/8	1-1/16	1-9/16	3	NO	7/16
A - ROD	A - ROD	1-5/8	1-17/64	1-3/4	3	NO	9/16
AW - ROD	AW - ROD	1-3/4	1-3/8	1-3/4	3	NO	5/8
B - ROD	B - ROD	1-29/32	1-13/32	1-7/8	3	NO	5/8
BW - ROD	BW - ROD	2-1/8	1-11/16	2-1/4	3	NO	3/4
N - ROD	4 THREAD N - ROD	2-1/8	1-7/8	2-3/8	4	NO	1
N - ROD FAILING TYPE	3 THREAD N - ROD	2-3/8	1-7/8	2-3/4	3	NO	1-1/8
NW - ROD	NW - ROD	2-5/8	2-7/32	2-3/4	3	NO	1-3/8

**FOR ORDERING:**

**WESTERN RUBBER & MFG.**

7015 Old Hwy 105 W.

Conroe, TX 77304

**PHONE: 1-800-367-5285 936-588-3033**

**FAX: 936-588-3132**

# PIPE SIZES

NOMINAL PIPE SIZE INCHES	OD INCHES	5 S	10 S	10	20	30	STD	40S	40	60	XS	80S	80	100	120	140	160	XXS
<b>1</b>	1.315	0.065 0.89	0.109 1.43				0.133 1.68	0.133 1.71	0.133 1.68		0.179 2.17	0.179 2.21	0.179 2.17				0.250 2.84	0.353 3.66
<b>1-1/4</b>	1.660	0.065 1.13	0.109 1.85				0.140 2.27	0.140 2.32	0.140 2.27		0.191 3.00	0.191 3.06	0.191 3.00				0.250 3.76	0.382 5.21
<b>1-1/2</b>	1.900	0.065 1.31	0.109 2.13				0.145 2.72	0.145 2.77	0.145 2.72		0.200 3.63	0.200 3.70	0.200 3.63				0.281 4.86	0.400 6.41
<b>2</b>	2.375	0.065 1.64	0.109 2.69				0.154 3.65	0.154 3.72	0.154 3.65		0.218 5.02	0.218 5.12	0.218 5.02				0.344 7.46	0.436 9.03
<b>2-1/2</b>	2.875	0.083 2.53	0.120 3.60				0.203 5.79	0.203 5.91	0.203 5.79		0.276 7.66	0.276 7.81	0.276 7.66				0.375 10.01	0.552 13.69
<b>3</b>	3.500	0.083 3.09	0.120 4.42				0.216 7.58	0.216 7.73	0.216 7.58		0.300 10.25	0.300 10.46	0.300 10.25				0.438 14.32	0.600 18.58
<b>3-1/2</b>	4.000	0.083 3.55	0.120 5.07				0.226 9.11	0.226 9.29	0.226 9.11		0.318 12.50	0.318 12.76	0.318 12.50				----	----
<b>4</b>	4.500	0.083 4.00	0.120 5.72				0.237 10.79	0.237 11.01	0.237 10.79		0.337 14.98	0.337 15.28	0.337 14.98		0.438 19.00		0.531 22.51	0.674 27.54
<b>5</b>	5.563	0.109 6.49	0.134 7.93				0.258 14.62	0.258 14.91	0.258 14.62		0.375 20.78	0.375 21.20	0.375 20.78		0.500 27.04		0.625 32.96	0.750 38.55
<b>6</b>	6.625	0.109 7.75	0.134 9.48				0.280 18.97	0.278 19.35	0.280 18.97		0.432 28.57	0.432 29.14	0.432 28.57		0.562 36.39		0.719 45.35	0.864 53.16
<b>7</b>	7.625						.301 23.57						.500 30.05					.870 63.0
<b>8</b>	8.625	0.109 10.13	0.148 13.67		0.250 22.36	0.277 24.70	0.322 28.55	0.322 29.12	0.322 28.55	0.406 35.64	0.500 43.39	0.500 44.26	0.500 43.49	0.534 50.95	0.719 60.71	0.812 67.76	0.906 74.69	0.875 72.42
<b>10</b>	10.750	0.134 15.49	0.165 19.02		0.250 28.04	0.307 34.24	0.365 40.48	0.365 41.29	0.365 40.48	0.500 54.74	0.500 54.74	0.500 55.83	0.539 64.43	0.719 77.03	0.844 89.29	1.000 104.13	1.125 115.64	1.000 104.13
<b>11</b>	11.75						.375 45.55						.500 60.07					
<b>12</b>	12.750	0.156 21.40	0.180 24.65		0.330 43.77	0.330 43.77	0.375 49.56	0.375 50.55	0.406 53.52	0.562 73.15	0.500 65.42	0.500 66.73	0.688 88.63	0.844 107.32	1.000 125.49	1.125 139.67	1.312 160.27	1.000 125.49
<b>14</b>	14.000	0.156 23.53	0.188 28.28	0.250 36.71	0.312 45.61	0.375 54.57	0.375 54.57		0.438 63.44	0.594 85.05	0.500 72.09		0.750 106.13	0.938 130.85	1.094 150.79	1.250 170.21	1.406 189.11	
<b>16</b>	16.000	0.165 28.46	0.165 32.39	0.250 42.05	0.312 52.27	0.375 62.58	0.375 62.58		0.500 82.77	0.656 107.50	0.500 82.77		0.844 136.61	1.031 164.82	1.219 192.43	1.438 223.64	1.594 245.25	
<b>18</b>	18.000	0.165 32.06	0.188 36.48	0.250 47.39	0.312 58.94	0.438 82.15	0.375 70.59		0.562 104.67	0.750 138.17	0.500 93.45		0.938 170.92	1.156 207.96	1.375 244.14	1.562 274.22	1.781 308.50	
<b>20</b>	20.000	0.188 40.58	0.218 49.68	0.250 52.73	0.375 78.60	0.500 104.13	0.375 78.60		0.594 123.11	0.812 166.40	0.500 104.13		1.031 208.87	1.281 256.10	1.500 296.37	1.750 341.09	1.969 379.17	
<b>22</b>	22.000	0.188 44.68	0.218 51.72	0.250 58.07	0.375 88.61	0.500 114.81	0.375 86.61		----	0.875 197.41	0.500 114.81		1.125 250.81	1.375 302.88	1.625 353.61	1.875 403.00	2.125 451.06	
<b>24</b>	24.000	0.218 56.48	0.250 64.68	0.250 63.41	0.375 94.62	0.562 140.68	0.375 94.62		0.688 171.29	0.969 238.35	0.500 125.49		1.219 296.58	1.531 367.39	1.812 429.39	2.062 583.12	2.344 542.13	
<b>26</b>	26.000			0.312 85.60	0.500 136.17	----	0.375 102.63		----		0.500 136.17							

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