





## VIEWING OPTIONS:

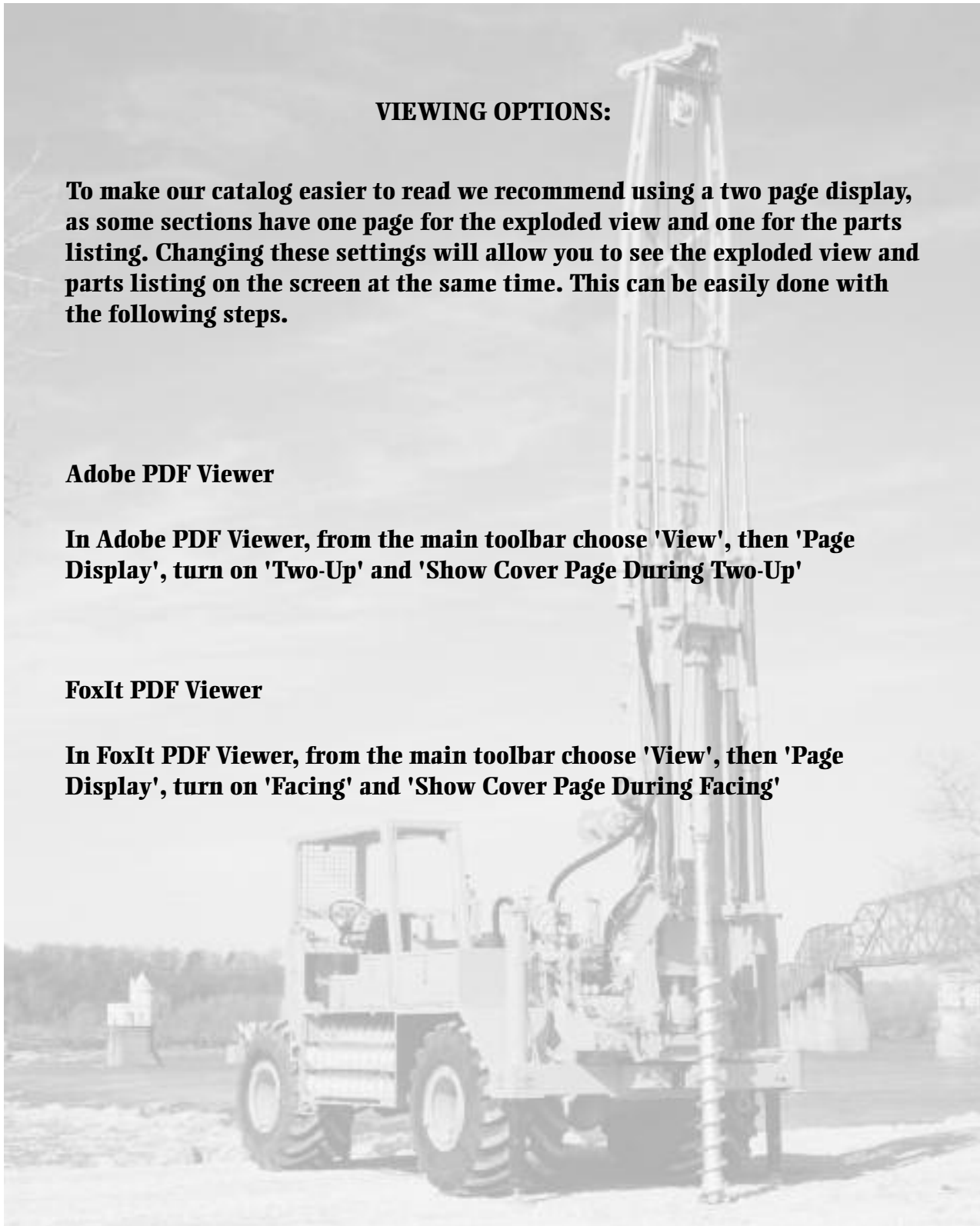
**To make our catalog easier to read we recommend using a two page display, as some sections have one page for the exploded view and one for the parts listing. Changing these settings will allow you to see the exploded view and parts listing on the screen at the same time. This can be easily done with the following steps.**

### **Adobe PDF Viewer**

**In Adobe PDF Viewer, from the main toolbar choose 'View', then 'Page Display', turn on 'Two-Up' and 'Show Cover Page During Two-Up'**

### **FoxIt PDF Viewer**

**In FoxIt PDF Viewer, from the main toolbar choose 'View', then 'Page Display', turn on 'Facing' and 'Show Cover Page During Facing'**





## CME Drilling Tools

<b>Drilling Tools .....</b>	<b>5.1</b>
<b>Casing - W Series Flush Joint .....</b>	<b>5.6</b>
<b>Casing Advancer .....</b>	<b>5.8</b>
<b>Casing Accessories .....</b>	<b>5.10</b>
<b>Drag Bits .....</b>	<b>5.19</b>
<b>Drill Rods .....</b>	<b>5.2</b>
<b>Drill Rod Clean Out Taps.....</b>	<b>5.33</b>
<b>Drill Rod Recovery Taps .....</b>	<b>5.32</b>
<b>Drill Rod Wipers .....</b>	<b>5.33</b>
<b>Hoisting Swivels .....</b>	<b>5.32</b>
<b>Kwik Klamps.....</b>	<b>5.30</b>
<b>Roller Rock Bits .....</b>	<b>5.18</b>
<b>Slip Rings &amp; Holding Iron .....</b>	<b>5.31</b>
<b>Subs &amp; Adapters .....</b>	<b>5.12</b>
<b>Water Swivels, Side Feed &amp; Bail Type .....</b>	<b>5.20</b>



<b>DRILL ROD (DCDMA) W SERIES - COUPLED</b>					
<b>AW</b>			<b>NW</b>		
	<b>Part No.</b>	<b>Weight</b>		<b>Part No.</b>	<b>Weight</b>
1 Ft.	30009	5.4 lb / 2.4 KG	1 Ft.	30025	11.4 lb / 5.2 KG
2 Ft.	30010	9.4 lb / 4.3 KG	2 Ft.	30026	18.7 lb / 8.5 KG
5 Ft.	30011	21.6 lb / 9.8 KG	5 Ft.	30027	32.2 lb / 14.6 KG
10 Ft.	30012	41.9 lb / 19 KG	10 Ft.	30028	80.3 lb / 36.4 KG

<b>DRILL ROD COUPLING</b>			
<b>AW</b>		<b>NW</b>	
<b>Part No.</b>	<b>Weight</b>	<b>Part No.</b>	<b>Weight</b>
30031	2 lb / .9 KG	30035	5.5 lb / 2.5 KG

<b>W SERIES SPECIFICATIONS*</b>			
<b>AW</b>			
<b>OD Tube</b>	<b>Tube Wall Thickness</b>	<b>ID Coupling</b>	<b>Treads Per Inch</b>
1.75" / 44.5 mm	.250" / 6.35 mm	.625" / 15.9 mm	3
<b>NW</b>			
<b>OD Tube</b>	<b>Tube Wall Thickness</b>	<b>ID Coupling</b>	<b>Treads Per Inch</b>
2.625" / 66.7 mm	.313" / 7.95 mm	1.375" / 34.9 mm	3
* NOTE: All AW & NW Drill Rods are parallel walls.			



<b>DRILL ROD (DCDMA) W SERIES - SPECIFICATIONS</b>				
<b>EW</b>				
OD Of Drill Rod	Tube Wall Thickness	ID Of Drill Rod	Treads Per Inch	Weight of Drill Rod / per ft.
1.375" / 34.9 mm	.218" / 5.5 mm	.9375" / 23.8 mm	3	2.8 lb / 4.2 KG
<b>ID Of Coupling</b>		<b>Weight Of Coupling</b>		
.4375" / 11.1 mm		1 lb. / .45 KG		
<b>AW</b>				
OD Of Drill Rod	Tube Wall Thickness	ID Of Drill Rod	Treads Per Inch	Weight of Drill Rod / per ft.
1.75" / 44.5 mm	.250" / 6.3 mm	1.25" / 31.8 mm	3	4.3 lb / 6.4 KG
<b>ID Of Coupling</b>		<b>Weight Of Coupling</b>		
.625" / 15.8 mm		2 lb. / .90 KG		
<b>BW</b>				
OD Of Drill Rod	Tube Wall Thickness	ID Of Drill Rod	Treads Per Inch	Weight of Drill Rod / per ft.
2.125" / 53.9 mm	.187" / 4.7 mm	1.75" / 44.4 mm	3	4.3 lb / 6.4 KG
<b>ID Of Coupling</b>		<b>Weight Of Coupling</b>		
.75" / 19 mm		3.5 lb. / 1.6 KG		
<b>NW</b>				
OD Of Drill Rod	Tube Wall Thickness	ID Of Drill Rod	Treads Per Inch	Weight of Drill Rod / per ft.
2.625" / 66.6 mm	.187" / 4.7 mm	2.25" / 57.1 mm	3	5.5 lb / 8.2 KG
<b>ID Of Coupling</b>		<b>Weight Of Coupling</b>		
1.375" / 34.9 mm		5.5 lb. / 2.5 KG		
<b>HW</b>				
OD Of Drill Rod	Tube Wall Thickness	ID Of Drill Rod	Treads Per Inch	Weight of Drill Rod / per ft.
3.5" / 88.9 mm	.218" / 5.5 mm	3.062" / 77.8 mm	3	8.8 lb / 13.1 KG
<b>ID Of Coupling</b>		<b>Weight Of Coupling</b>		
2.375" / 60.3 mm		7.6 lb. / 3.4 KG		



<b>DRILL ROD (DCDMA) WJ SERIES - JOINTED</b>					
<b>AWJ</b>			<b>NWJ</b>		
	<b>Part No.</b>	<b>Weight</b>		<b>Part No.</b>	<b>Weight</b>
1 Ft.	30036	4.6 lb / 2.1 KG	1 Ft.	30727	9.7 lb / 4.4 KG
2 Ft.	30037	8.8 lb / 4.0 KG	2 Ft.	30728	14.5 lb / 6.5 KG
3 Ft.	30048	15 lb / 6.8 KG	3 Ft.	30049	19 lb / 8.6 KG
5 Ft.	30038	21.1 lb / 9.6 KG	5 Ft.	30729	30 lb / 13.6 KG
10 Ft.	30039	41 lb / 18.6 KG	10 Ft.	30730	51.5 lb / 23.4 KG

<b>WJ SERIES SPECIFICATIONS</b>			
<b>AWJ</b>			
<b>OD Tube</b>	<b>Tube Wall Thickness</b>	<b>ID Pin</b>	<b>Treads Per Inch</b>
1.75" / 44.5 mm	.250" / 6.35 mm	.625" / 15.9 mm	5
<b>NWJ</b>			
<b>OD Tube</b>	<b>Tube Wall Thickness</b>	<b>ID Pin</b>	<b>Treads Per Inch</b>
2.625" / 66.7 mm	.188" / 4.78 mm	1.125" / 28.6 mm	4



## DRILL ROD - HEAVY DUTY (3.5" OD)


	Part No.	Weight		Part No.	Weight
1 Ft.	-	-	5 Ft.	37229	61.7 lb / 28.0 KG
2 Ft.	37230	26.4 lb / 12.0 KG	10 Ft.	37228	114.5 lb / 52.0 KG

## HEAVY DUTY DRILL ROD SPECIFICATIONS


Rod Size	OD Tube	Tube Wall Thickness	ID Pin	Treads Per Inch	Flat Box End
3.5"	3.5" 88.9 mm	.337" 8.56 mm	1.75" 44.5 mm	4	2"x2.75 51x69.85 mm

## SUBS - 2.375 API IF

### BOX to PIN

	Part No.	Description
	37231	NW Box - 2.375 API IF Pin 6"
	37232	NW Box - 2.375 API IF Pin
	37233	NWJ Box - 2.375 API IF Pin

### BOX to BOX

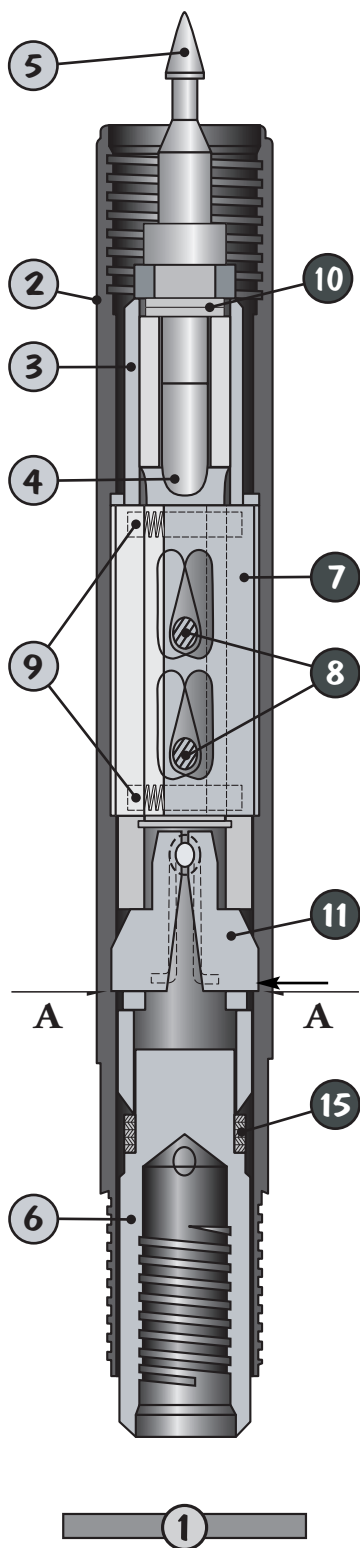
	Part No.	Description
	37234	2.375 Reg. Box - 2.375 API IF Box
	37235	2.875 Reg. Box - 2.375 API IF Box
	37236	3.5 Reg. Box - 2.375 API IF Box
	37237	4.5 Reg. Box - 2.375 API IF Box



<b>CASING</b>					
<b>W SERIES - FLUSH JOINT</b>					
<b>BW</b>			<b>NW</b>		
	<b>Part No.</b>	<b>Weight</b>		<b>Part No.</b>	<b>Weight</b>
1 Ft.	30072	7.0 lb / 3.1 KG	1 Ft.	30076	9.0 lb / 4.1 KG
2 Ft.	30073	14.0 lb / 6.3 KG	2 Ft.	30077	17.0 lb / 7.7 KG
5 Ft.	30074	35.0 lb / 15.9 KG	5 Ft.	30078	43.0 lb / 19.5 KG
10 Ft.	30075	70.0 lb / 31.8 KG	10 Ft.	30079	86.0 lb / 39.1 KG
<b>HW</b>			<b>PW</b>		
	<b>Part No.</b>	<b>Weight</b>		<b>Part No.</b>	<b>Weight</b>
1 Ft.	30080	12.0 lb / 5.4 KG	1 Ft.	30000	15.0 lb / 6.8 KG
2 Ft.	30081	23.0 lb / 10.4 KG	2 Ft.	30001	29.0 lb / 13.1 KG
5 Ft.	30082	58.0 lb / 26.3 KG	5 Ft.	30002	70.0 lb / 31.8 KG
10 Ft.	30083	117.0 lb / 53.1 KG	10 Ft.	30003	144.0 lb / 65.4 KG
<b>SW</b>			<b>UW</b>		
	<b>Part No.</b>	<b>Weight</b>		<b>Part No.</b>	<b>Weight</b>
1 Ft.	30088	20.0 lb / 9.1 KG	1 Ft.	30092	23.0 lb / 10.4 KG
2 Ft.	30089	40.0 lb / 18.1 KG	2 Ft.	30093	46.0 lb / 20.9 KG
5 Ft.	30090	100.0 lb / 45.4 KG	5 Ft.	30094	117.0 lb / 53.1 KG
10 Ft.	30091	200.0 lb / 90.9 KG	10 Ft.	30095	234.0 lb / 106.3 KG
<b>ZW</b>					
	<b>Part No.</b>	<b>Weight</b>			
1 Ft.	30096	24.0 lb / 10.9 KG			
2 Ft.	30097	48.0 lb / 21.8 KG			
5 Ft.	30098	119.0 lb / 54.0 KG			
10 Ft.	30099	238.0 lb / 108.1 KG			

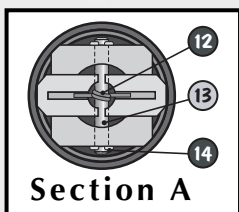


<b>CASING</b>			
<b>W SERIES - SPECIFICATIONS</b>			
<b>BW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
2.875" / 73.0 mm	.250" / 12.7 mm	2.375" / 60.3 mm	4
<b>NW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
3.5" / 88.9 mm	.250" / 12.7 mm	3.0" / 76.2 mm	4
<b>HW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
4.5" / 114.3 mm	.250" / 12.7 mm	4.0" / 101.6 mm	4
<b>PW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
5.5" / 139.7 mm	.250" / 12.7 mm	5.0" / 127.0 mm	3
<b>SW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
6.625" / 168.3 mm	.312" / 15.9 mm	6.0" / 152.4 mm	3
<b>UW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
7.625" / 193.7 mm	.312" / 15.9 mm	7.0" / 177.8 mm	2
<b>ZW</b>			
OD Of Casing	Tube Wall Thickness	ID Of Casing	Treads Per Inch
8.625" / 219.1 mm	.312" / 15.9 mm	8.0" / 203.2 mm	2

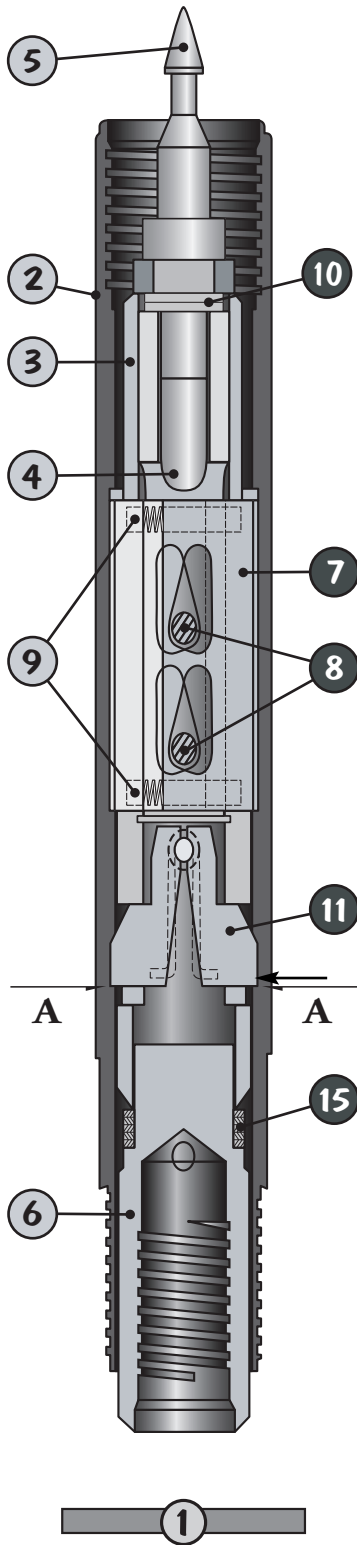


## NW Casing Advancer

Ref. No.	Part No.	Description
1	37100	Assembly NW Casing Advancer
2	37101	Driver NW Casing Advancer
3	37102	Latch Body NW Casing Advancer
4	37103	Release Shaft NW Casing Advancer
5	37104	Spear Head NW Casing Advancer
6	37105	Bit Sub NW Casing Advancer
7	37106	Latch Shoe Set NW Casing Advancer
8	37107	Locating Pin NW Casing Advancer (2 req'd.)
9	37108	Spring NW Casing Advancer (2req'd.)
10	37109	Disk Loc Washer NW Casing Advancer
11	37110	Stop Latch Set NW Casing Advancer
12	37111	Stop Latch Spring NW Casing Advancer
13	37112	Stop Latch Pin NW Casing Advancer
14	37113	Split Cotter NW Casing Advancer (2 req'd.)
15	37114	Spacer Set NW Casing Advancer
	37115	Loading Sleeve NW Casing Advancer (included in assembly)

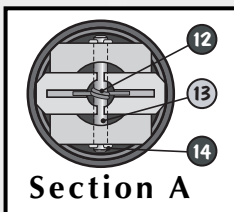


**\* NOTE: Casing Shoe and Rock Bit not included.**



## HW/HWT Casing Advancer

Ref. No.	Part No.	Description
1	37117	Assembly HW Casing Advancer
1	37128	Assembly HWT Casing Advancer
2	37118	Driver HW Casing Advancer
2	37129	Driver HWT Casing Advancer
3	37119	Latch Body HW Casing Advancer
4	37103	Release Shaft HW Casing Advancer
5	37104	Spear Head HW Casing Advancer
6	37120	Bit Sub HW Casing Advancer
7	37121	Latch Shoe Set HW Casing Advancer
8	37107	Locating Pin HW Casing Advancer (2 req'd.)
9	37108	Spring HW Casing Advancer (2req'd.)
10	37109	Disk Loc Washer HW Casing Advancer
11	37122	Stop Latch Set HW Casing Advancer
12	37111	Stop Latch Spring HW Casing Advancer
13	37123	Stop Latch Pin HW Casing Advancer
14	37113	Split Cotter HW Casing Advancer (2 req'd.)
15	37114	Spacer Set HW Casing Advancer
	37125	Loading Sleeve HW Casing Advancer (included in assembly)
	37130	Loading Sleeve HWT Casing Advancer (included in assembly)

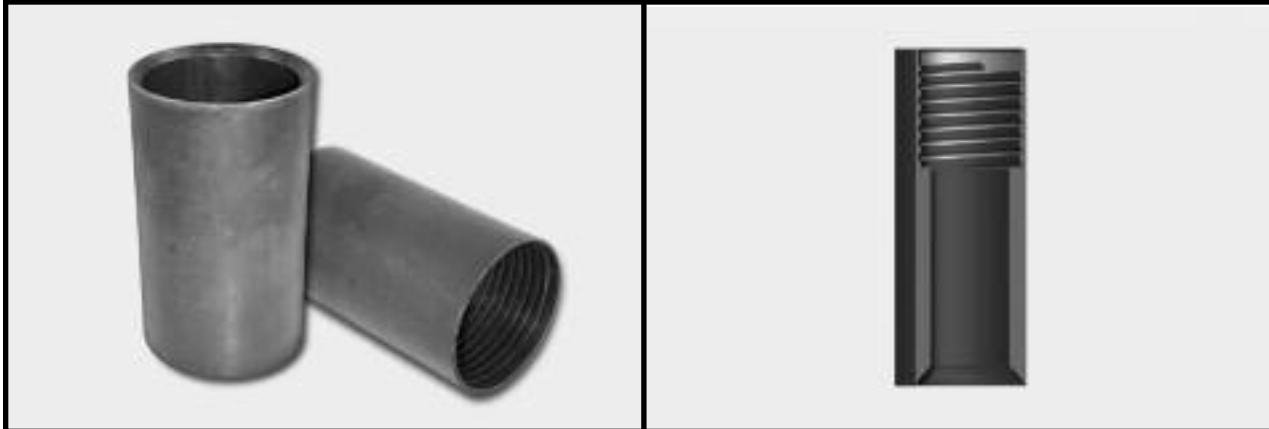


\* NOTE: Casing Shoe and Rock Bit not included.



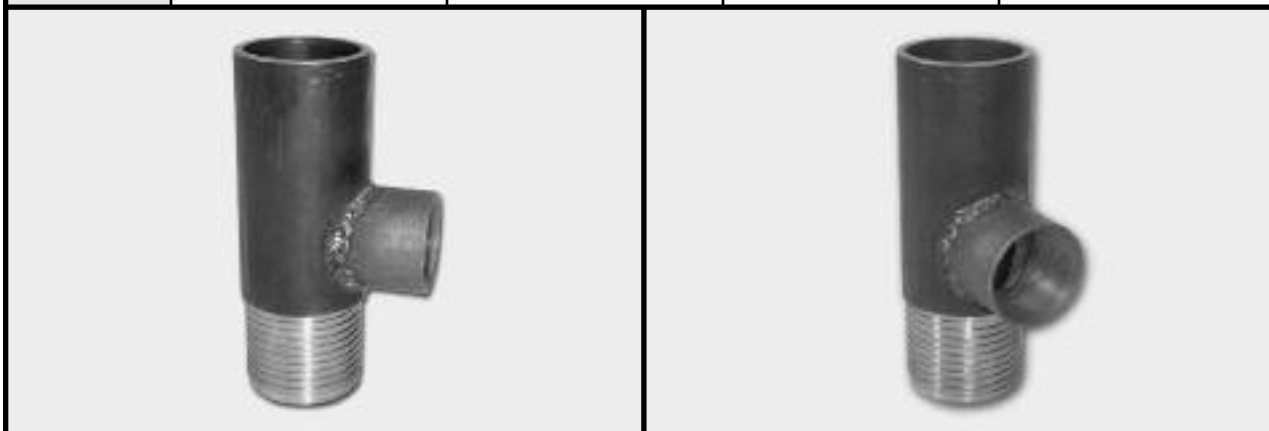
## CASING - DRIVE SHOES

	BW	NW	HW	HWT
Part No.	30124	30125	30126	30127



## WATER TEES - FLUSH JOINT CASING

	BW	NW	HW	HWT
Part No.	29995	29996	29997	29994





## SUBS - FLUSH JOINT CASING

### BOX to PIN



Part No.	Description
30274	AW Rod - NW Casing
30299	AWJ Rod - NW Casing
30377	NW Rod - NW Casing
30407	NWJ Rod - NW Casing
30378	NW Rod - HW Casing
30408	NWJ Rod - HW Casing
30379	NW Rod - HWT Casing
30380	NWJ Rod - HWT Casing

**Note:** HWT Casing is not interchangeable with HW series casing.  
HWT rod/casing is used as the Drill Rod for the P W/L Core Barrel.



## SUBS - ADAPTERS

### BOX to PIN



Part No.	Description	Part No.	Description
30252	A - AW	30294	AWJ - N4
30253	A - AWJ	30295	AWJ - N3
30254	A - BW	30296	AWJ - NW
30256	A - N4	30297	AWJ - NWJ
30257	A - N3	30311	AWJ - 1.125 Hex
30258	A - NW	30312	AWJ - 1.625 Hex
30259	A - NWJ	30725	AWJ - 1.25-7 UNC
30265	AW - A	30314	BW - A
30266	AW - AWJ	30315	BW - AW
30267	AW - BW	30316	BW - AWJ
30269	AW - N4	30318	BW - N4
30270	AW - N3	30319	BW - N3
30271	AW - NW	30320	BW - NW
30272	AW - NWJ	30321	BW - NWJ
30286	AW - 1.125 Hex	30339	N4 - A
30287	AW - 1.625 Hex	30340	N4 - AW
30755	AW - 1.25-7 UNC	30341	N4 - AWJ
30290	AWJ - A	30342	N4 - BW
30291	AWJ - AW	30344	N4 - N3

## SUBS - ADAPTERS

### BOX to PIN

	Part No.	Description	Part No.	Description
	30345	N4 - NW	30370	NW - N4 *
	30346	N4 - NWJ	30371	NW - N3 *
	30349	N4 - 1.125 Hex	30372	NW - NWJ *
	30350	N4 - 1.625 Hex	30392	NW - 1.125 Hex
	30352	N3 - A	30393	NW - 1.625 Hex
	30353	N3 - AW	30395	NWJ - A
	30354	N3 - AWJ	30396	NWJ - AW
	30355	N3 - BW	30397	NWJ - AWJ
	30357	N3 - N4	30398	NWJ - BW
	30358	N3 - NW	30400	NWJ - N4
	30359	N3 - NWJ	30401	NWJ - N3
	30362	N3 - 1.125 Hex	30402	NWJ - NW
	30363	N3 - 1.625 Hex	30422	NWJ - 1.125 Hex
	30365	NW - A *	30423	NWJ - 1.625 Hex
	30366	NW - AW *	37231	NW Box - 2.375 API IF Pin 6"
30606	NW - AWJ *	37232	NW Box - 2.375 API IF Pin	
30368	NW - BW *	37233	NWJ Box - 2.375 API IF Pin	
<p><b>Note: Other combinations &amp; sizes of subs available.</b> * 6" Body length.</p>				



## CME 3.5 KELLY SUBS - 2.375 API IF

### BOX to PIN



Part No.	Description
30356	2.375 API IF Box - N W/L Pin
30592	2.375 API IF Box - H W/L Pin 4 Lg.
30608	2.375 API IF Box - NWJ Pin 5 Lg.
30609	2.375 API IF Box - NW Pin 5 Lg.
30611	2.375 API IF Box - N3 Pin 5 Lg.
30612	2.375 API IF Box - N4 Pin 5 Lg.
30613	2.375 API IF Box - AW Pin 5 Lg.
30614	2.375 API IF Box - AWJ Pin 5 Lg.

## SUBS - ADAPTERS

### PIN to PIN



Part No.	Description	Part No.	Description
30446	A - AW	30476	AWJ - 1.625 Hex
30447	A - AWJ	30479	BW - N4
30448	A - BW	30480	BW - N3
30450	A - N4	30481	BW - NW
30451	A - N3	30482	BW - NWJ
30452	A - NW	30484	BW - 1.125 Hex
30453	A - NWJ	30485	BW - 1.625 Hex
30454	A - 1.125 Hex	30495	N4 - N3
30455	A - 1.625 Hex	30496	N4 - NW
30457	AW - AWJ	30497	N4 - NWJ
30458	AW - BW	30499	N4 - 1.125 Hex
30460	AW - N4	30500	N4 - 1.625 Hex
30461	AW - N3	30502	N3 - NW
30462	AW - NW	30503	N3 - NWJ
30463	AW - NWJ	30505	N3 - 1.125 Hex
30465	AW - 1.125 Hex	30506	N3 - 1.625 Hex
30466	AW - 1.625 Hex	30508	NW - NWJ
30470	AWJ - N4	30515	NW - 1.125 Hex
30472	AWJ - NW	30516	NW - 1.625 Hex
30473	AWJ - NWJ	30519	NWJ - 1.125 Hex
30475	AWJ - 1.125 Hex	30520	NWJ - 1.625 Hex



## SUBS - ADAPTERS

### BOX to BOX



Part No.	Description	Part No.	Description
30132	A - AW	30193	N4 - NW
30133	A - AWJ	30194	N4 - NWJ
30134	A - BW	30195	N4 - 2.375 API
30140	A - 1.125 Hex	30196	N4 - 2.875 API
30141	A - 1.625 Hex	30199	N4 - NXWL
30144	AW - AWJ	30201	N4 - NW/L
30145	AW - BW	30204	N4 - 1.125 Hex
30147	AW - N4	30205	N4 - 1.625 Hex
30148	AW - N3	30208	N3 - NW
30149	AW - NW	30209	N3 - NWJ
30150	AW - NWJ	30210	N3 - 2.375 API
30156	AW - 1.125 Hex	30211	N3 - 2.875 API
30157	AW - 1.625 Hex	30215	N3 - 1.125 Hex
30151	AW - 2.375 API	30216	N3 - 1.625 Hex
30152	AW - 2.875 API	30219	NW - NWJ
30162	AWJ - N4	30220	NW - 2.375 API
30164	AWJ - NW	30221	NW - 2.875 API
30165	AWJ - NWJ	30222	NW - 3.500 API
30171	AWJ - 1.125 Hex	30226	NW - 1.125 Hex
30172	AWJ - 1.625 Hex	30227	NW - 1.625 Hex
30166	AWJ - 2.375 API	30230	NWJ - 2.375 API
30167	AWJ - 2.875 API	30231	NWJ - 2.875 API
30176	BW - N4	30232	NWJ - 3.500 API
30178	BW - NW	30236	NWJ - 1.125 Hex
30179	BW - NWJ	30237	NWJ - 1.625 Hex
30180	BW - 1.125 Hex	34415	NW/L - 2.375 API
30181	BW - 1.625 Hex	34416	NW/L - 2.875 API
30192	N4 - N3		



## ROLLER/Drag BIT - SUBS

### BOX to BOX



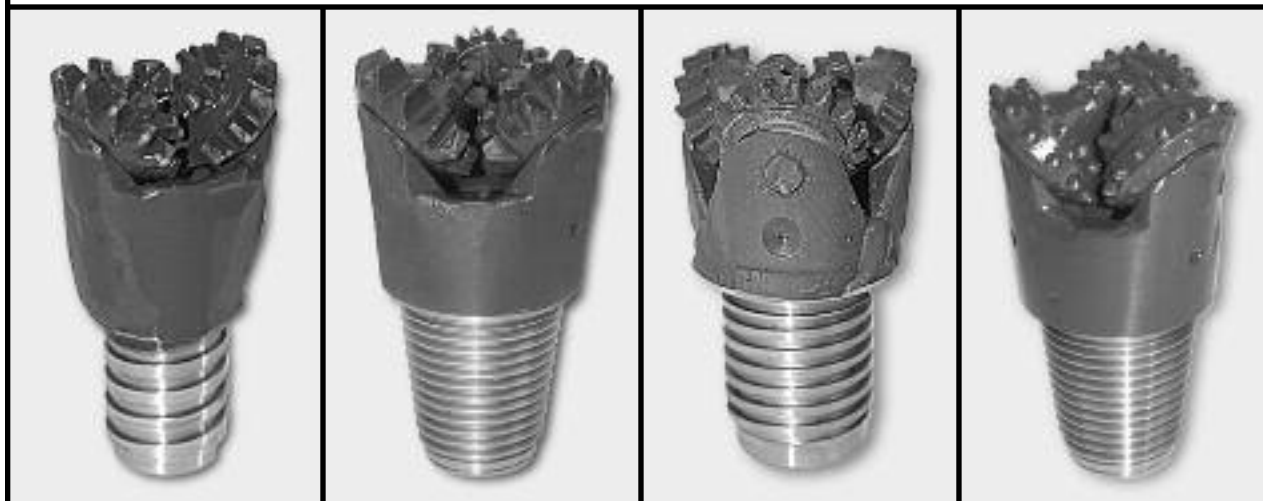
Part No.	Description
30147	AW - N4
30162	AWJ - N4
30193	N4 - NW
30194	N4 - NWJ
30199	N4 - NXWL
30201	N4 - NW/L
30151	AW - 2.375 API
30166	AWJ - 2.375 API
30152	AW - 2.875 API
30167	AWJ - 2.875 API
30220	NW - 2.375 API
30221	NW - 2.875 API
30222	NW - 3.500 API
30230	NWJ - 2.375 API
30231	NWJ - 2.875 API
30232	NWJ - 3.500 API
34415	NW/L - 2.375 API
34416	NW/L - 2.875 API
37234	2.375 Reg. Box - 2.375 API IF Box
37235	2.875 Reg. Box - 2.375 API IF Box
37236	3.5 Reg. Box - 2.375 API IF Box
37237	4.5 Reg. Box - 2.375 API IF Box



## ROLLER ROCK BITS - MILLTOOTH

Part No.	Size	Type	Connection
32016	2.125"	2 Cone	A Box
32018	2.125"	2 Cone	AW Box
32027	2.375"	2 Cone	AW Pin
32060	2.9375"	3 Cone	N4 Pin
32069	3.125"	3 Cone	N4 Pin
32095	3.625"	3 Cone	2.375" API
32103	3.875"	3 Cone	2.375" API
32111	4.125"	3 Cone	2.375" API
32119	4.5"	3 Cone	2.375" API
32124	4.875"	3 Cone	2.875" API
32135	5.625"	3 Cone	3.500" API
32139	5.875"	3 Cone	3.500" API

**NOTE:** Also available, Bits w/Tungsten Carbide Inserts (TCI), shown picture, below right.  
Retips and Reruns available upon request.



**NOTE:** See page 5.17 for Bit Subs

## CARBIDE INSERT DRAG BITS - CHEVRON

Part No.	Size	Type	Connection
32167	2.000"	3 Wing	AW Pin
32175	2.250"	3 Wing	AW Pin
32179	2.500"	3 Wing	AW Pin
32191	2.9375"	3 Wing	N4 Pin
32195	3.125"	3 Wing	N4 Pin
32207	3.500"	3 Wing	N4 Pin
32225	3.875"	3 Wing	2.375" API
32233	4.125"	3 Wing	2.375" API
32240	4.750"	3 Wing	2.375" API
32258	6.000"	3 Wing	3.500" API

**NOTE:** Also available in Step Type, shown picture, below right.

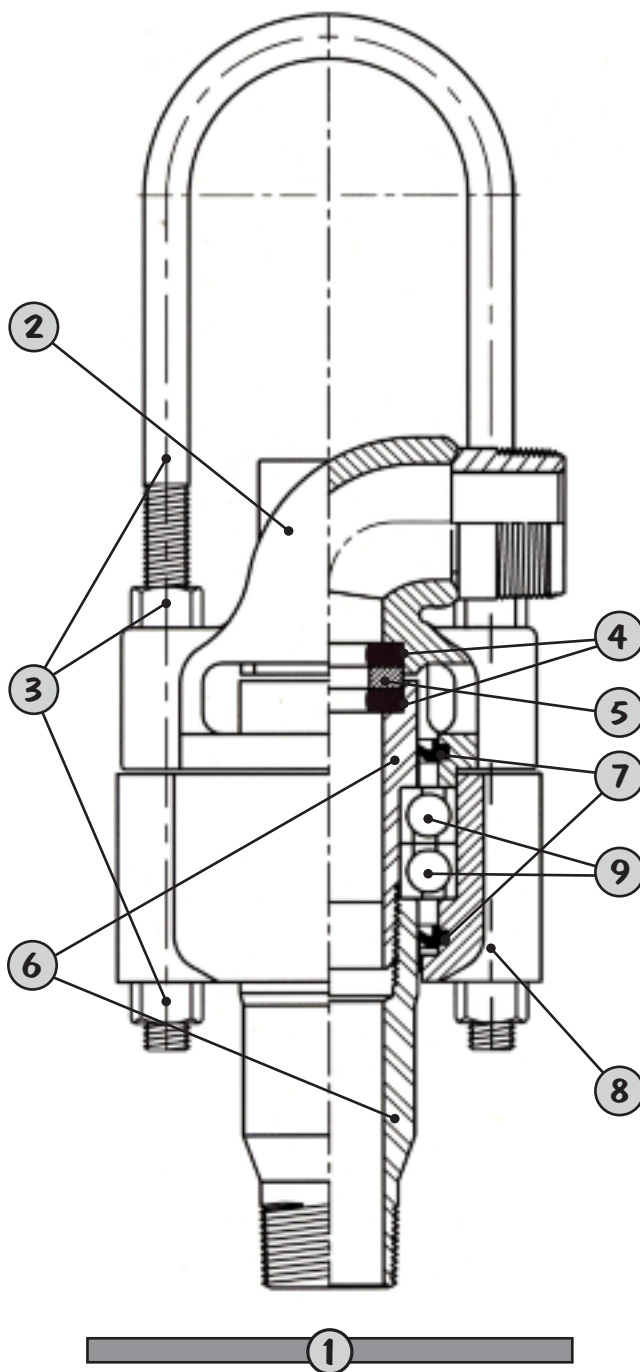


**NOTE:** See page 5.17 for Bit Subs



## Water Swivel

1 J

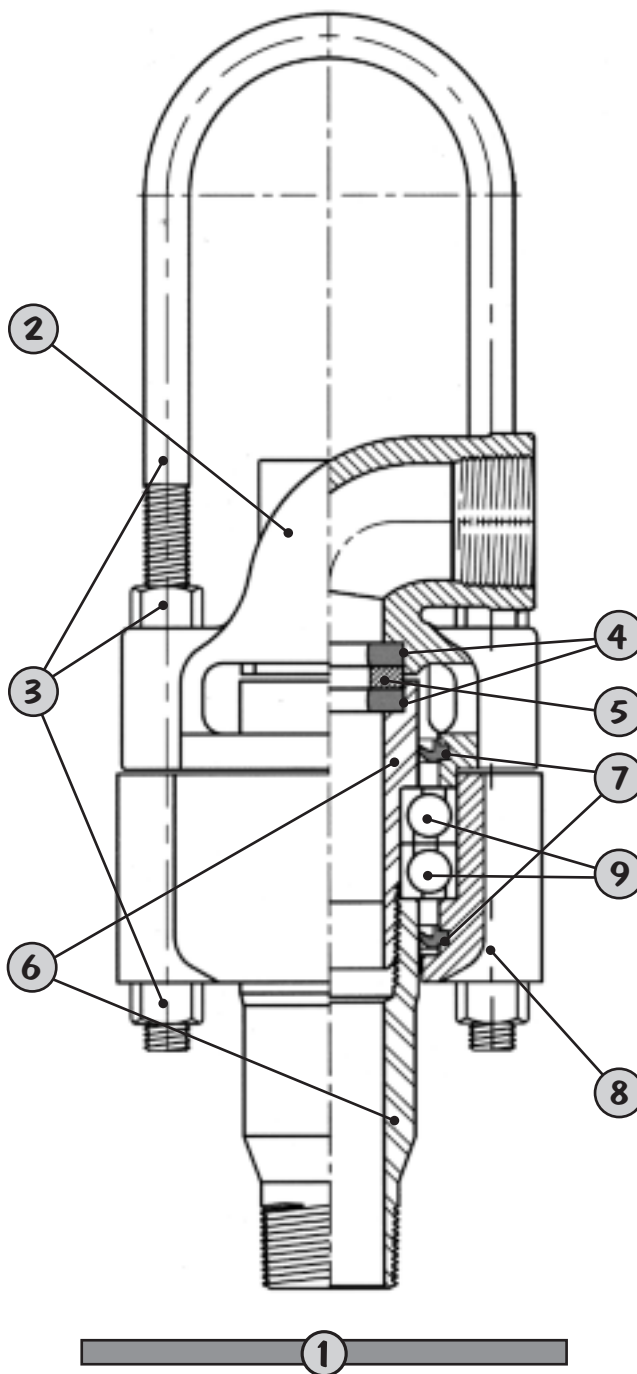






## Water Swivel

2 J

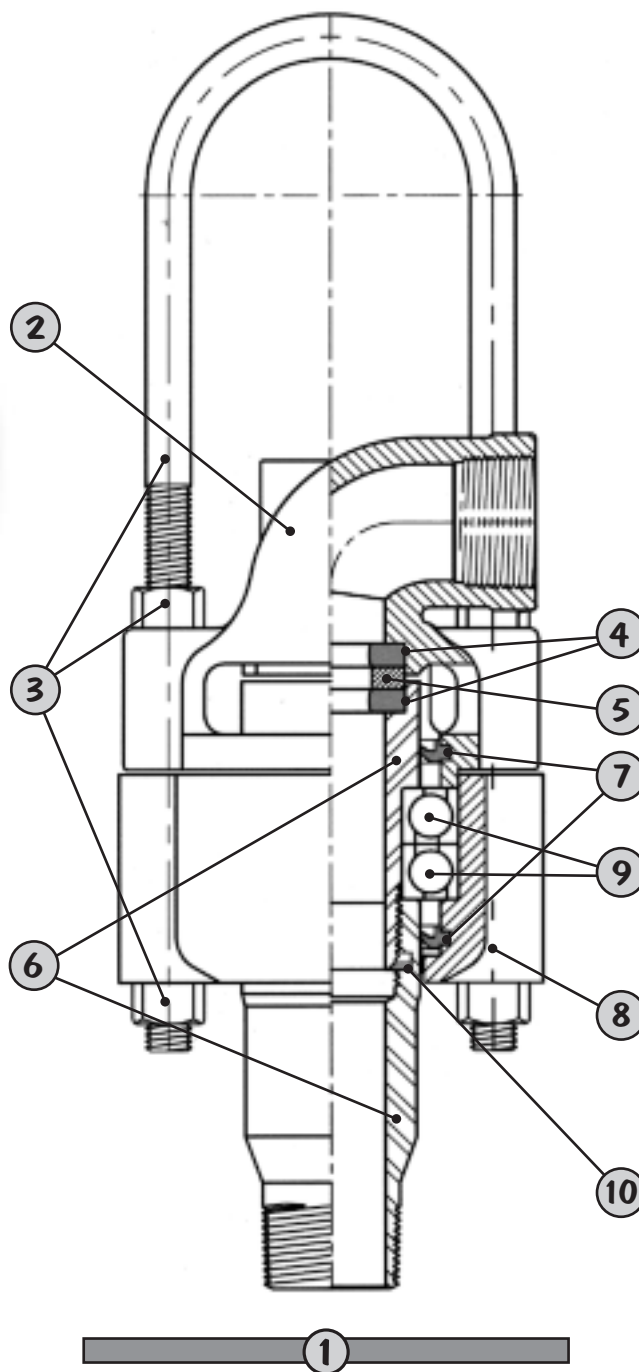






## Water Swivel

3 J



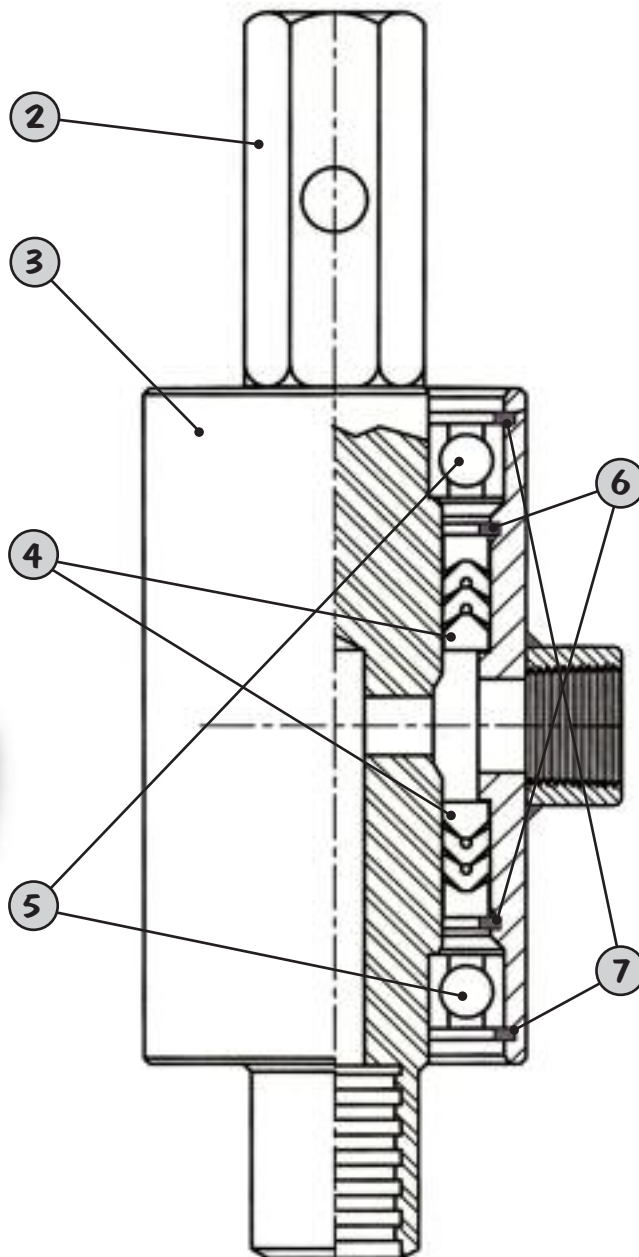


<b>Water Swivel</b>		
<b>3 J</b>		
Ref. No.	Part No.	Description
1	31069	Swivel, Iron, 2" female NPT hose connection with 2" NPT LH pin lower connection
1	31064	Swivel, Iron, 2" female NPT hose connection with CMK 6V LH pin lower connection
2	31037	Gooseneck, 2" female NPT
3	31038	Bail with nuts
4	30904	Packing (2 req'd.)
4	31035	Packing, 90 Duro (2 req'd.) Air
4	31139	Packing, Viton (2 req'd.)
5	30905	Wearbushing
6	31128	Bearing Spindle Shaft 3J with 2" NPT LH pin lower connection (Mated set)
6	31129	Bearing Spindle Shaft 3J with CMK 6V LH pin lower connection (Mated set)
7	30908	Housing Seals (2 req'd.)
8	30909	Bearing Housing
9	30910	Bearings (2 req'd.)
10	30912	Spindle Thread Seal



## Side Feed Swivel

AW

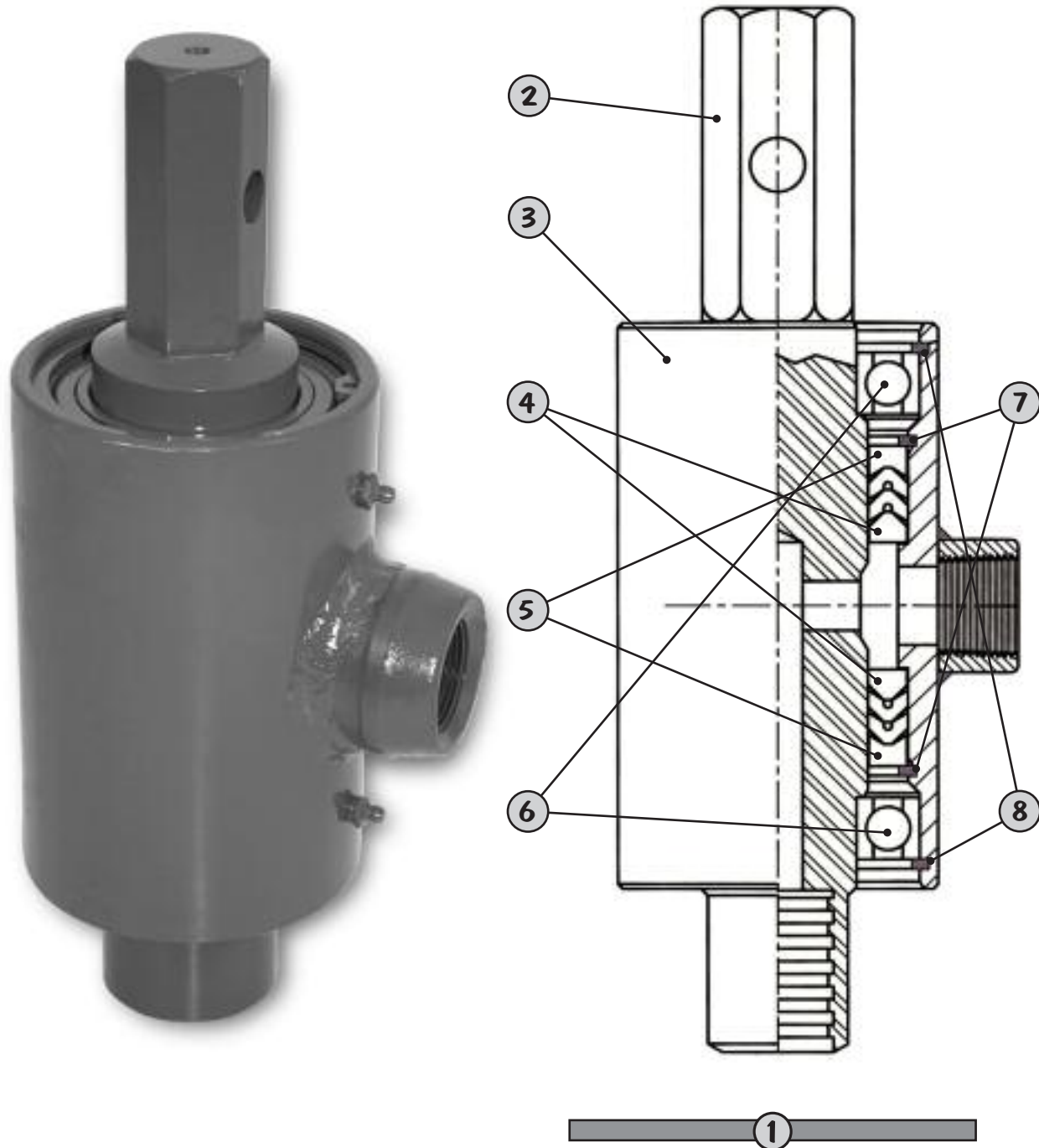






## Side Feed Swivel

NW

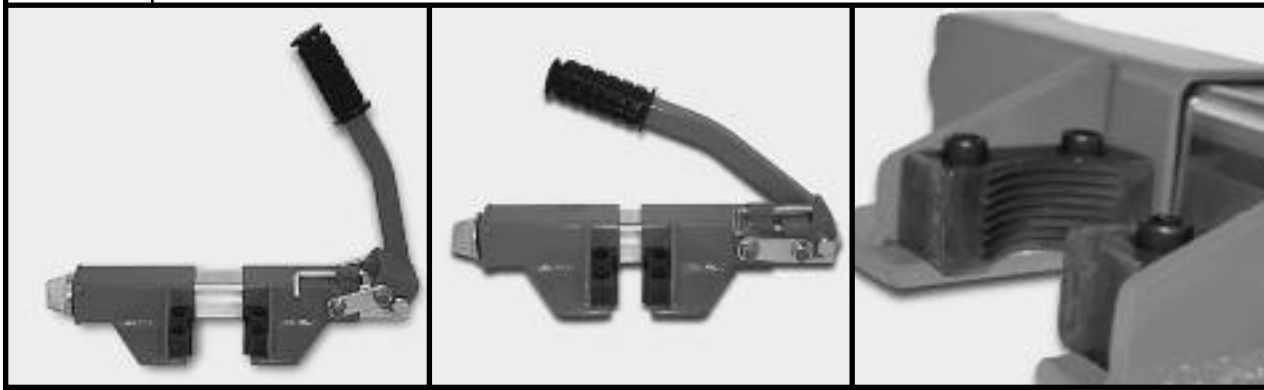






## KWIK KLAMP

Part No.	Description
32459	Kwik Klamp (1.25" to 2.625" - 3,500 lbs. capacity)
32460	Jaw w/screws (2 Req'd)




## KWIK KLAMP 2

Part No.	Description
32461	Kwik Klamp 2 (2.5" to 4.5" - 7,000 lbs. capacity)
32464	Gripper Carbide Tipped (16 Req'd)







SLIP RINGS				
<b>OPEN</b>				
<b>A</b>	<b>AW</b>	<b>N</b>	<b>NW</b>	
32287	32288	32290	32291	
<b>CLOSED</b>				
<b>A</b>	<b>AW</b>	<b>N</b>	<b>NW</b>	
32292	32293	32295	32296	

HOLDING IRONS				
<b>OPEN</b>				
<b>A</b>	<b>AW</b>	<b>N</b>	<b>NW</b>	
32297	32298	32300	32301	
<b>CLOSED</b>				
<b>A</b>	<b>AW</b>	<b>N</b>	<b>NW</b>	
32302	32303	32305	32306	



## HOISTING SWIVEL - H.D. - BALL BEARING TYPE

	A	AW	AWJ	N4	N3	NW	NWJ
Part No.	32268	32269	32270	32272	32273	32274	32275
							

## DRILL ROD RECOVERY TAPS \*

INSIDE TAP			OUTSIDE TAP		
Part No.	Connection	Rod Size	Part No.	Connection	Rod Size
32307	AW	A / AW	32310	AW	A
			32311	AW	AW
32308	BW	BW	32312	BW	BW
32309	NW	N / NW	32313	NW	N / NW

NOTE: \*Right-hand rod thread - Right-hand tap thread





## DRILL ROD WIPERS

Part No.	Size	O.D.
32366	A-Rod	9"
32367	AW-Rod	9"
32369	N-Rod	9"
32370	NW-Rod	9"
32371	HW-Rod	9"
32372	NW-Rod	12"
32373	N W/L-Rod	12"
32374	3.5"-Rod	12"
32375	4.5"-Rod	12"



## DRILL ROD CLEAN-OUT TAPS

<b>A</b>	<b>AW</b>	<b>BW</b>
32279	32280	32282
<b>N4</b>	<b>N3</b>	<b>NW</b>
32283	32284	32285





# Drilling Tools

