

Kelly Bushings

Kelly Bushing Pin Drive

Model: 27 PDHD and 20 PDHD

Spectrum Drilling Tools International specializes in manufacturing Rotary Bushings (including Kelly Bushings), confirming API-7K specifications. We ensure compliance with industry standards.

Our Kelly Bushing models, 27PDHD or 20PDHD, are manufactured following API-7K specifications. They are designed for pin drive Master Bushings, suitable for Rotary Table sizes ranging from 27.1/2" to 49.1/2", Master Bushing with 25.3/4" pin circle 27PDHD of 23" pin circle, 20PDHD. The Kelly Bushing is utilized in drilling operations, particularly in offshore and onshore high torque conditions. It effectively handles Square or Hexagonal Kelly sizes ranging from 3" to 6".

The Kelly Bushing is supplied with the following components:

- Roller Assembly (Pre-fitted)
- Wiper Assembly (Pre-fitted)
- Wrench
- Wear Gauge



Pin Drive Kelly Bushing
Figure No. 16

Kelly Bushing Square Drive

Model: SDHD

The Kelly Bushing Model SDHD confirms to API-7K specifications for Square Drive Master Bushings, designed for Rotary Table sizes ranging from 27.1/2" to 49.1/2". It is utilized in drilling operations, both Offshore and Onshore, particularly in high torque conditions, and is capable of handling Square or Hexagonal Kelly sizes from 3" to 6".

The Kelly Bushing is supplied with the following components:

- Roller Assembly (Pre-fitted)
- Wiper Assembly (Pre-fitted)
- Wrench
- Wear Gauge



Square Drive Kelly Bushing
Figure No. 17

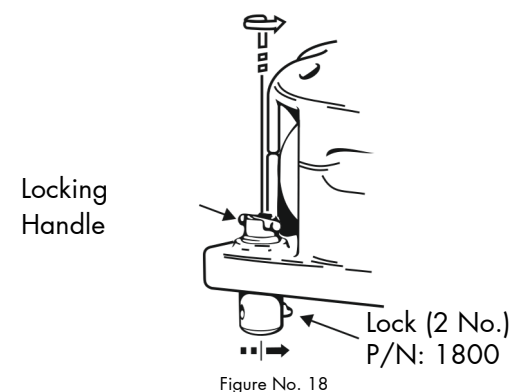
Note: Roller Assembly is compatible with 27 PDHD, 20 PDHD, and SDHD models.
(All the parts are interchangeable with Varco 27HDP, 20HDP, or HDS models, as well as other Kelly bushings compliant with API-7K standards)

Optional Pin Lock Assembly

The Optional Drive Pin Lock Assembly secures the Kelly Bushing within the Master Bushing, particularly useful for offshore drilling operations employing motion compensators. These lock assemblies are specifically designed for the 27 PDHD series Bushing. To order an assembly, simply add "L" to the part number of the unit.

For Lock Type Kelly Bushing:

Particular	P/N For 27 PDHD Model	Identical Varco P/N
Lock Assembly	2721	3695
Drive Pin	2721-A	3697
Locking Pin	2721-B	3698
Eccentric Pin	2721-C	3696
Drive Pin Washer	2721-D	1506



Kelly Bushing 27PDHD, 20PDHD & SDHD Complete:

Kelly Size/Type	Heavy Duty Roller Kelly Bushing				Roller Assembly Complete*	
	27 PDHD Complete Kelly Bushing		20 PDHD Complete Kelly Bushing	SDHD Complete Kelly Bushing	SDTI P/N	Identical VARCO P/N
	SDTI P/N	Identical VARCO P/N				
3" Hex	2701-P	3650-30	2001-P	2701-S	2101	3667
3.1/2" Hex	2702-P	3650-35	2002-P	2702-S	2102	3668
4.1/4" Hex	2703-P	3650-42	2003-P	2703-S	2103	3669
5.1/4" Hex	2704-P	3650-52	2004-P	2704-S	2104	3672
6" Hex	2705-P	3650-60	2005-P	2705-S	2105	3673
3" Sq.	2706-P	3651-30	2006-P	2706-S	2106	3660
3.1/2" Sq.	2721-P	3651-35	2011-P	2711-S	2110	3661
4.1/4" Sq.	2707-P	3651-42	2007-P	2707-S	2107	3662
5.1/4" Sq.	2708-P	3651-52	2008-P	2708-S	2108	3665
6" Sq.	2709-P	3651-60	2009-P	2709-S	2109	3666

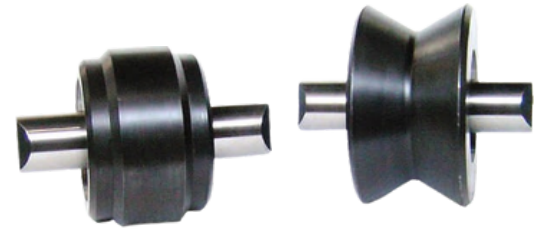
*The Roller Assembly comprises Flat/V-roller (1 No.), Roller Pin (1 No.), Bearing (1 No.), and Thrust Washer (2 No.).

Part List of Kelly Bushing:

S. No.	Description	Qty. Per Unit	27 PDHD		20 PDHD	SDHD
			SDTI P/N	Identical VARCO P/N		
1.	Kelly Bushing Body less Roller Assembly	1 No.	2710-P	3653	2010-P	2710-S
2.	Hold Down Bolt	4 No.	2711	13501	2711	2711
3.	Hold Down Bolt Lock Screw	4 No.	2711-A	50110-8-S	2711-A	2711-A
4.	Nut for Hold Down Bolt	4 No.	2712	1208	2712	2712
5.	Lock Washer for Nut	4 No.	2713	51110-C	2713	2713
6.	Drive Pin with Washer	4 No.	2714	1605	2714-S	-
7.	Wrench	1 No.	2715	1210	2715	2715
8.	Wiper Assembly	1 No.	2716	-	2716	2716
9.	Wiper Retainer Plate	1 No.	2716-B	1321	2716-B	2716-B
10.	Wiper Retainer Plate Screw	8 No.	2716-C	50008-10-S	2716-C	2716-C
11.	Roller Pin	4 No.	2717	3609	2717	2717
12.	Roller Bearing	4 No.	2718	1312	2718	2718
13.	Sleeve Bush	4 No.	2719	1326	2719	2719
14.	Thrust Washer	8 No.	2720	3618	2720	2720
15.	Lifting Sling (Four Hooks Type)	1 No.	2721	-	2721	2721

Individual Rollers:

Kelly Size	For Hex Kelly				For Square Kelly	
	Flat Roller		V Roller		Flat Roller	
	SDTI P/N	Identical Varco P/N	SDTI P/N	Identical Varco P/N	SDTI P/N	Identical Varco P/N
2.1/2"	2111	–	2119	–	2111-S	–
3"	2112	1338	2120	1339	2112-S	1331
3.1/2"	2113	1340	2121	1341	2113-S	1332
4.1/4"	2114	1342	2122	1343	2114-S	1333
4.1/2"	2115	1385	2123	1386	2115-S	–
5"	2116	1387	2124	1388	2116-S	–
5.1/4"	2117	1344	2125	1345	2117-S	1334
6"	2118	1346	2126	1347	2118-S	1335



Flat & V Roller
Figure No. 19

Note :

- Items numbered 2 to 10 are pre-fitted within the Kelly Bushing Body (Item Serial No. 1).
- Items numbered 11 to 13 are pre-fitted within the complete Roller Assembly.

Kelly Bushing 17PDMD & 17SDMD Complete:

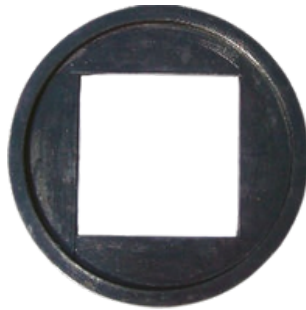
Kelly Size/Type	17 PDMD Kelly Bushing Complete	17 SDMD Kelly Bushing Complete	17 4KRVS Kelly Bushing Complete	Roller Assembly	Individual Roller for Hex	
					V Roller	Flat Roller
2.1/2" SQ	1701-P	1701-S	1701-KR	1721	1729	1737
3" SQ	1702-P	1702-S	1702-KR	1722	1730	1738
3.1/2" SQ	1703-P	1703-S	1703-KR	1723	1731	1739
4.1/4" SQ	1704-P	1704-S	1704-KR	1724	1732	1740
5.1/4" SQ	1705-P	1705-S	1705-KR	1725	1733	1741
3" HEX	1706-P	1706-S	1706-KR	1726	1734	1742
3.1/2" HEX	1707-P	1707-S	1707-KR	1727	1735	1743
4.1/4" HEX	1708-P	1708-S	1708-KR	1728	1736	1744

Part List of Kelly Bushing:

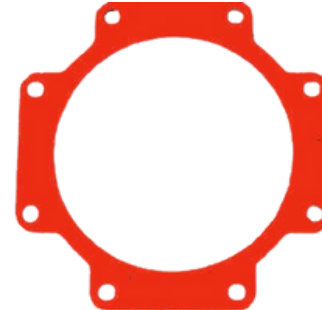
S. No.	Description	Qty. Per Unit	17 PDMD	17 SDMD	17 4KRVS
1.	Kelly Bushing Body less Roller Assembly	1 No.	1710-P	1710-S	1710-KR
2.	Hold Down Bolt	4 No.	1711	1711	1711
3.	Hold Down Bolt lock screw	4 No.	1711-A	1711-A	1711-A
4.	Nut for hold down bolt	4 No.	1712	1712	1712
5.	Lock washer for nut	4 No.	1713	1713	1713
6.	Drive pin with washer	4 No.	1714	–	1714
7.	Wrench	1 No.	1715	1715	1715
8.	Wiper assembly	1 No.	1716	1716	1716
9.	Wiper Retainer plate	1 No.	1716-B	1716-B	1716-B
10.	Wiper Retainer plate screw	8 No.	1716-C	1716-C	1716-C
11.	Roller Pin	4 No.	1717	1717	1717
12.	Roller Bearing	4 No.	1718	1718	1718
13.	Sleeve Bush	4 No.	1719	1719	1719
14.	Thrust Washer	8 No.	1720	1720	1720

Note:

- Item No. 2 to 10 are fitted in Kelly Bushing Body. (Item S.No. 1)
- Item No. 11 to 13 are fitted in
- Roller Assembly Complete.



Wipers
Figure No. 20



Wiper Retainer Plate
Figure No. 21

Kelly Wiper Assembly Part List for 27" & 20" Kelly Bushing:

Kelly Size	For Square		For Hex	
	SDTI P/N	Identical Varco P/N	SDTI P/N	Identical Varco P/N
2.1/2"	2151	-	2159	-
3"	2152	12100	2160	12107
3.1/2"	2153	12101	2161	12108
4.1/4"	2154	12102	2162	12109
4.1/2"	2155	-	2163	-
5"	2156	-	2164	12110
5.1/4"	2157	12103	2165	12111
6"	2158	12104	2166	12112

Kelly Wiper Assembly Part List for 17" Kelly Bushing:

Kelly Size	For Hex Kelly	For Square Kelly
2.1/2"	-	17545-S
3"	17546-H	17546-S
3.1/2"	17547-H	17547-S
4.1/4"	17548-H	17548-S
5.1/4"	-	17549-S