Varco™ Circular Buttons

Circular Buttons for Varco Drill Collar Slips*

Part number	Description	OEM reference number	OEM set number	Number per set	Wt per set
6426280	3" - 4" DCS-S	2628	2628-49	49	13.0
6426204	4" - 4 7/8" DCS-S	2620	2620-49	49	8.0
6426280	4 1/2" - 6" DCS-R	2628	2628-63	63	16.0
6426204	5 1/2" - 7" DCS-R	2620	2620-63	63	11.0
6426131	5 1/2" - 7" DCS-L	2513	2513-88	88	22.0
6426301	6 3/4" - 8 1/4" DCS-L	2630	2630-88	88	15.0
6426301	8" - 9 1/2" DCS-L	2630	2630-96	96	16.0
6426271	8 1/2" - 10" DCS-L	2627	2627-104	104	26.0
6426301	9 1/4" - 11 1/4" DCS-L	2630	2630-112	112	19.0
6426255	11 " - 12 3/4" DCS-L	2625	2625-136	136	13.0
6426301	12" - 14" DCS-L	2630	2630-136	136	16.0

Circular Buttons for Varco Casing Slips (CMS-XL)*

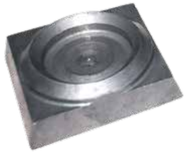
Part number	Description	OEM reference number	OEM set number	Number per set	Wt per set
6426280	6 5/8"	2628	2628-144	144	36.0
6426190	7"	2619	2619-144	144	36.0
6426301	7 5/8"	2630	2630-156	144	24.0
6426301	8 5/8"	2630	2630-156	156	26.0
6426301	9 5/8"	2630	2630-168	168	28.0
6426301	10 3/4"	2630	2630-180	180	30.0
6426271	11 3/4"	2627	2627-204	204	51.0
6426301	12 3/4" & 13 3/8"	2630	2630-216	216	36.0
6426310	16"	2631	2631-252	252	43.0
6426263	18 5/8"	2626	2626-300	300	60.0
6426310	20"	2631	2631-312	312	52.0
6413868	22"	13868	13868-360	360	60.0
6426310	24"	2631	2631-360	360	60.0
6426310	26"	2631	2631-396	396	64.0
6413868	28"	13868	13868-432	432	68.0
6426310	30"	2631	2631-444	444	72.0

Circular Buttons for Varco Conductor Pipe Slip (CP-S)*

Part number	Description	OEM reference number	OEM set number	Number per set	Wt per set
6426310	24"	2631	2631-156	156	26.0
6426310	26"	2631	2631-168	168	28.0
6426310	30"	2631	2631-192	192	32.0

*Note: these buttons also fit DenCon™ or Blohm + Voss™ drill collar, casing and conductor pipe slips

Circular buttons
(Left to right):
Standard small,
reducing medium,
reducing large



Rig Systems

CORPORATE HEADQUARTERS
7909 Parkwood Circle Drive
Houston, Texas 77036
United States
Phone: 713 375 3700
Toll-Free: 888 262 8645

Mailing Address
P.O. Box 4638
Houston, Texas 77210
United States

CUSTOMER SERVICE
11300 Windfern
Houston, Texas 77064 United States
Phone: 281 517 3100
Toll-Free: 800 800 4110
Fax: 281 517 0340

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Fax: 724 222 3100

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Alice
Phone: 361 664 2300
Fax: 361 664 2357

Fort Worth
Phone: 817 696 0800
Fax: 817 696 0805

Houston – Windfern Road
Phone: 281 517 3100
Toll-Free: 800 800 4110
Fax: 281 517 0340

Kilgore
Phone: 903 983 3531
Fax: 903 983 5212

Odessa – Oregon Street
Phone: 432 368 0014
Fax: 432 368 0171

San Angelo
Phone: 325 655 8225
Fax: 325 655 1115

Wyoming

Casper
Phone: 307 235 2751
Fax: 307 265 2484

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Argentina
Buenos Aires
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Fax: 54 11 4763 3490

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Brisbane, Queensland
Phone: 61 407 732 922

Brazil
Macae, Rio de Janeiro
Phone: 55 22 2796 9200
24-hours: 55 22 8111 1400
Fax: 55 22 2773 3631

Canada
Edmonton, Alberta
Phone: 780 414 7616
Toll-Free: 866 855 7867
Fax: 780 465 7060

China
Beijing
Phone: 86 10 5707 0900
Fax: 86 10 5977 6100

Egypt
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Phone: 2 012 355 4000
Fax: 2 02 3335 4184

Libya
Tripoli
Phone: 21821 7144274, ext. 108
Fax: 21821 7205704

Russia
Moscow
Phone: 7 495 775 2540
Fax: 7 495 981 3470

Saudi Arabia
Dammam
Phone: 966 53 6000859

Singapore
Phone: 65 6513 3640
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United Arab Emirates
Jebel Ali, Dubai
Phone: 971 4 811 0100
Fax: 971 4 811 0285

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Fax: 44 0 1224 723034

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Fax: 44 0 191 4878835

Montrose
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Fax: 44 0 1674 662266

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Phone: 58 261 7362636
Fax: 58 261 7362636

For your nearest National Oilwell Varco distributor, call 918 - 447 - 4600.

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Corporate Headquarters
7909 Parkwood Circle Drive
Houston, Texas 77036
USA

Rig Systems Headquarters
10000 Richmond Avenue
Houston, Texas 77042
USA

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Rig Systems rig@nov.com nov.com

Mission™ Custom Dies and Inserts

Rig Systems

Consistent quality and proper fit

National Oilwell Varco™ dies and inserts are accurately machined to exacting tolerances using state-of-the-art CNC machinery. All dies and inserts are then heat treated to specific standards to provide the best wear resistance in even the harshest environments. Consistent quality and proper fit are guaranteed by extensive testing and gauging programs. Various tooth patterns are available for specific applications.

Features and benefits

- Most extensive range of dies and inserts in the marketplace today
- Consistent quality, proper fit and improved product life by design
- Shaped steel, precision tooling and fixtures, and CNC equipment
- Several stocking distributors with large inventory for short delivery times
- Valuable experience gained in many decades of die and insert specialization

Tong dies
(Left to right):
Pyramid tooth tong die,
coarse tooth tong die,
diamond tooth tong die

Manual Tongs

Tong Dies

Die slot	CDI tooth number	Varco/ BJ tooth number	Size	Place of use	OEM reference number	Wt
1" slot	6419011	N/A	⅜" x 1" x 1 15⁄16"	BJ™ Type MS and MS Backup W/Slot	6209	0.19
	6415024	N/A	⅜" x 1" x 2 1⁄8"	Web Wilson™ Type E Tong	4216	0.19
	6415032	N/A	⅜" x 1" x 2 1⁄2"	Eckel™ 4 1⁄2" Tong, 4"and 4 1⁄2" Jaw	85005112	0.25
	6415040	N/A	⅜" x 1" x 2 5⁄8" w/ slot	BJ™ CTS 4 1⁄2", 5", and 5 1⁄2" Tongs	30869	0.13
	6400019	N/A	⅜" x 1" x 3 7⁄8"	BJ™ Powermatic Tong, Farr Power Tong	6473	0.38
				Weatherford 5 1⁄2" and 7 5⁄8" Tong		
	6415067	N/A	⅜" x 1" x 1 7⁄16" w/ slot	BJ™ Powermatic and Hydratorc Tong w/1" Die Slot (4 1⁄8"- 4 1⁄2")	24554-2	0.19
	6415075	N/A	⅜" x 1" x 1 7⁄16" w/ slot	4 1⁄2" Contour For CTS Tong	31175	0.19
	6400027	N/A	⅜" x 1" x 4 1⁄4"	Web Wilson™ Type C,D, and ADF Tongs	4316	0.38
				BJ™	12612-1	
	6415091	N/A	⅜" x 1" x 4 1⁄2"	Hillman Kelley™ Backup Die	8500-5113	0.44
	6400035	N/A	⅜" x 1" x 5 3⁄4"	Web Wilson™ Type B and Old Style AAX	4516	0.50
				BJ™	12512	
				B+V "BV-37"		
⅝" slot	6400086	N/A	⅜" x ⅝" x 1 15⁄16"	BJ™ Type S and WS Tongs	6472	0.10
				Eckel™ 4 1⁄2" Tong, 2 1⁄16" Jaw	101-257	
	6440010	N/A	⅜" x ⅝" x 4 1⁄2"	Hillman Kelley™ Standard	8500-5565	0.24
				All Sizes Drill Pipe and Casing Power Tongs		
1 ¼" slot	6416012	N/A	½" x 1 ¼" x 3 7⁄8"	BJ™ Drill Pipe Power,Tong	24768-2	0.55
				Eckel™ 5 1⁄2" - 30" Power Tongs	101-251	
				Farr Power Tongs	337-02-098	
	6416020 6416187 "Pyramid Tooth	6416401-2	½" x 1 ¼" x 5"	BJ™ Types SDD, C, F and LF Tong	16401-2	0.75
				BJ™ Power Casing Tong (4 1⁄2" - 13 3⁄8")		
				Woolley Type Super C, SLF and SDD Tong	627-185-1500	
				Eckel™ Model 850	103426	
				Web Wilson™	4616	
				B + V "BV-25", "BV-35", "BV-100"		
	6416039 6416195 "Pyramid Tooth	6416402-2	½" x 1 ¼" x 5 7⁄8"	BJ™ Type B and DB Tongs	16402-2	0.84
				Web Wilson™ Types AAX, H and AAX-ST-160	4716	
				Woolley Type Super A	627-185-1578	
				Super B Rotary and Super B Casing Tongs		
				B+V "BV-55", "BV-57", "BV-65", "BV-80"		

Manual Tongs

Diamond tooth tong dies

Die slot	CDI tooth number	Size	Place of use	OEM reference number	Wt
1"	6419054	⅜" x 1" x 3 7⁄8"	Same as 6400019 above	N/A	0.38
1"	6419089	⅜" x 1" x 5 3⁄4"	Same as 6400035 above	N/A	0.50
⅝"	6440436	⅜" x ⅝" x 4 1⁄2"	Same as 6440010 above	N/A	0.24
1 ¼"	6419518	½" x 1 ¼" x 3 7⁄8"	Same as 6416012 above	N/A	0.55
1 ¼"	6419577	½" x 1 ¼" x 5"	Same as 6416020 above	16401-6	0.75
1 ¼"	6419666	½" x 1 ¼" x 5 7⁄8-	Same as 6416039 above	16402-6	0.84

Manual Tongs

Reducing tong dies

Die slot	Part number	Description	Reduction	WT
⅝" slot	6440010	⅜" x ⅝" x 4 1⁄2"	Standard	0.24
	6440029	5⁄16" x ⅝" x 4 1⁄2"	1⁄8" Undersize	0.20
	6440061	17⁄32" x ⅝" x 4 1⁄2"	5⁄16" Reduction	0.34
	6440045	⅝" x ⅝" x 4 1⁄2"	1⁄2" Reduction	0.40
	6440053	11⁄16" x ⅝" x 4 1⁄2"	3⁄8" Reduction	0.43
1" slot	6415113	7⁄16" x 1" x 3 7⁄8"	1⁄8" Reduction	0.40
	6415210	½" x 1" x 3 7⁄8"	1⁄4" Reduction	0.45
	6415229	½" x 1" x 5"	1⁄4" Reduction	0.50
	6415318	9⁄16" x 1" x 2 1⁄2"	3⁄8" Reduction	0.54
	6415326	9⁄16" x 1" x 3 7⁄8"	3⁄8" Reduction	0.48
	6415415	⅝" x 1" x 3 7⁄8"	1⁄2" Reduction	0.50
	6415423	11⁄16" x 1" x 3 7⁄8"	5⁄8" Reduction	0.55
	6415431	¾" x 1" x 3 7⁄8"	¾" Reduction	0.60
	6415466	1" x 1" x 3 7⁄8"	1" Reduction	0.70
1 ¼" slot, 2 ½" long	6416110	7⁄16" x 1 ¼" x 2 1⁄2"	Standard	0.38
	6416209	½" x 1 ¼" x 2 1⁄2"	1⁄8" Reduction	0.40
	6416217	9⁄16" x 1 ¼" x 2 1⁄2"	1⁄4" Reduction	0.41
	6416314	⅝" x 1 ¼" x 2 1⁄2"	3⁄8" Reduction	0.45
	6416411	11⁄16" x 1 ¼" x 2 1⁄2"	1⁄2" Reduction	0.49
1 ¼" slot, 3 7⁄8" long	6416128	7⁄16" x 1 ¼" x 3 7⁄8"	1⁄8" Undersize	0.50
	6416225	9⁄16" x 1 ¼" x 3 7⁄8"	1⁄8" Reduction	0.63
	6416322	⅝" x 1 ¼" x 3 7⁄8"	1⁄4" Reduction	0.69
	6416420	11⁄16" x 1 ¼" x 3 7⁄8"	3⁄8" Reduction	0.77
	6416519	¾" x 1 ¼" x 3 7⁄8"	1⁄2" Reduction	0.83
	6416616	13⁄16" x 1 ¼" x 3 7⁄8"	5⁄8" Reduction	0.88
	6416713	7⁄8" x 1 ¼" x 3 7⁄8"	3⁄4" Reduction	0.95
	6416810	15⁄16" x 1 ¼" x 3 7⁄8"	7⁄8" Reduction	1.16
	6416918	1" x 1 ¼" x 3 7⁄8"	1" Reduction	1.25
	6416900	1 1⁄16" x 1 ¼" x 3 7⁄8"	1 1⁄8" Reduction	1.30
1 ¼" slot, 5" long	6416233	9⁄16" x 1 ¼" x 5"	1⁄8" Reduction	.77
	6416330	⅝" x 1 ¼" x 5"	1⁄4" Reduction	.88
	CDI-1646	11⁄16" x 1 ¼" x 5"	3⁄8" Reduction	.96
	6416934	¾" x 1 ¼" x 5"	1⁄2" Reduction	1.0
	6416641	13⁄16" x 1 ¼" x 5"	5⁄8" Reduction	1.12
	6416730	7⁄8" x 1 ¼" x 5"	¾" Reduction	1.22
	6416764	1 1⁄2" x 1 ¼" x 5"	2" Reduction	2.43
	6416829	15⁄16" x 1 ¼" x 5"	7⁄8" Reduction	1.31
	6416841	1 7⁄8" x 1 ¼" x 5"	1 ¼" Reduction	1.57
	6416977	1" x 1⁄4" x 5"	1" Reduction	1.37

Die slot	Part number	Description	Reduction	WT
1 ¼" slot, 5 7⁄8" long	6416926	1" x 1 ¼" x 5 7⁄8"	1" Reduction	1.69
	6416241	9⁄16" x 1 ¼" x 5 7⁄8"	1⁄8" Reduction	.91
	6416446	11⁄16" x 1 ¼" x 5 7⁄8"	3⁄8" Reduction	1.12
	6416497	¾" x 1 ¼" x 5 7⁄8"	1⁄2" Reduction	1.23
	6416624	13⁄16" x 1 ¼" x 5 7⁄8"	5⁄8" Reduction	1.32
	6416721	7⁄8" x 1 ¼" x 5 7⁄8"	¾" Reduction	1.41
	6416802	1 3⁄16" x 1 ¼" x 5 7⁄8"	1 3⁄8" Reduction	1.52
	6416942	5⁄8" x 1 ¼"x 5 7⁄8"	1⁄4" Reduction	1.03

Reducing dies
Available widths: s", 1" and 1 ¼"
Available lengths: 2 1⁄2" to 5d"

Inserts

Inserts for Varco™ rotary slips

CDI tooth number	Varco/ BJ tooth number	Description	OEM reference number	Slip size	Pipe size (OD)	Number of inserts required				Wt each (oz)
						SDS	SDML and SDM	SDXL	SDL	
6421601	642160V	Reducer	2160	3 1⁄2"	2 3⁄8"	24	30		36	0.87
6421610	642161V	Reducer	2161	3 1⁄2"	2 7⁄8"	24	30		36	0.64
6421628	642162V	Basic	2162	3 1⁄2"	3 1⁄2"	24	30		36	0.42
6421636	642163V	Reducer	2163	4 1⁄2"	3 1⁄2"	36	45	54	54	0.81
6421644	642164V	Reducer	2164	4 1⁄2"	4	36	45	54	54	0.61
6421652	642165V	Basic	2165	4 1⁄2"	4 1⁄2"	36	45	54	54	0.42
6421687	642168V	Reducer	2168	5	4		45	54	54	0.81
6421660	642166V	Reducer	2166	5	4 1⁄2"		45	54	54	0.63
6421679	642167V	Basic	2167	5	5		45	54	54	0.42
6421687	642168V	Reducer	2168	5 1⁄2"	4 1⁄2"		45	54	54	0.81
6421695	642169V	Reducer	2169	5 1⁄2"	5		45	54	54	0.61
6421709	642170V	Basic	2170	5 1⁄2"	5 1⁄2"		45	54	54	0.42
6421725	642172V	Reducer	2172	7"	6 5⁄8"			60	60	0.61
6421733	642173V	Basic	2173	7"	7			60	60	0.42

*Note: these inserts also fit DenCon™ or Blohm + Voss™ rotary slips

Inserts

Inserts for Varco™ casing elevator spider slips

CDI tooth number	Varco/ BJ tooth number	Description	OEM reference number	Slip size	Pipe size (OD)	Number of inserts required							Wt each (oz)
						200 ton 7 5⁄8"	350 ton 14"	500 ton 14"	750 ton 14"	1000 ton 24"	500 ton 24"	750 ton 24"	
6421601	642160V	Reducer	2160	3 1⁄2"	2 3⁄8"	12B/12							0.87
6421610	642161V	Reducer	2161	3 1⁄2"	2 7⁄8"	12B/12							0.64
6421628	642162V	Basic	2162	3 1⁄2"	3 1⁄2"	24							0.42
6421636	642163V	Reducer	2163	4 1⁄2"	3 1⁄2"	16B/16							0.81
6421644	642164V	Reducer	2164	4 1⁄2"	4	16B/16							0.61
6421652	642165V	Basic	2165	4 1⁄2"	4 1⁄2"	32							0.42
6421687	642168V	Reducer	2168	5 1⁄2"	4 1⁄2"	16B/16	16B/24	16B/32					0.81
6421695	642169V	Reducer	2169	5 1⁄2"	5	16B/16	16B/24	16B/32					0.61
6421709	642170V	Basic	2170	5 1⁄2"	5 1⁄2"	32	40	48					0.42
6426328	642632V	Reducer	2632	7 5⁄8"	6 5⁄8"	24B/24	24B/36	24B/48	24B/60				0.81
6426239	642623V	Reducer	2623	7 5⁄8"	7	24B/24	24B/36	24B/48	24B/60				0.64
6426522	642652V	Reducer	2652	7 5⁄8"	7 5⁄8"	24B/24	24B/36	24B/48	24B/60				0.61
6426336	642633V	Basic	2633	7 5⁄8"	7 5⁄8"	48	60	72	84				0.42
6426492	642649V	Undersize	2649	7 5⁄8"	7 3⁄4"	48	60	72	84				0.4
6426409	642640V	Reducer	2640	9 5⁄8"	8 5⁄8"		32B/48	32B/64	32B/80	24B/96			0.81
6426506	642650V	Reducer	2650	9 5⁄8"	8 3⁄4"		32B/48	32B/64	32B/80	24B/96			0.75
6426336	642633V	Basic	2633	9 5⁄8"	9 5⁄8"		80	96	112	120			0.42
6426492	642649V	Undersize	2649	9 5⁄8"	9 3⁄4"		80	96	112	120			0.4
6426492	642649V	Undersize	2649	9 5⁄8"	9 7⁄8"		80	96	112	120			0.4
6426409	642640V	Reducer	2640	11 3⁄4"	10 3⁄4"		40B/60	40B/80	40B/100	36B/144			0.81
6426379	642637V	Basic	2637	11 3⁄4"	11 3⁄4"		100	120	140	180			0.42
6426514	642651V	Undersize	2651	11 3⁄4"	11 7⁄8"		100	120	140	180			0.4
6426379	642637V	Basic	2637	13 3⁄8"	13 3⁄8"		100	120	140				0.42
6426492	642649V	Undersize	2649	13 3⁄8"	13 1⁄2"		100	120	140				0.4
N/A	642657V	Reducer	2657	14"	12 3⁄4"		40B/60	40B/80	40B/100	36B/144			
N/A	642656V	Reducer	2656	14"	12 7⁄8"		40B/60	40B/80	40B/100	36B/144			
6426360	642636V	Reducer	2636	14"	13 3⁄8"		40B/60	40B/80	40B/100	36B/144			0.64
6426522	642652V	Reducer	2652	14"	13 1⁄2"		40B/60	40B/80	40B/100	36B/144			0.61
6426530	642653V	Reducer	2653	14"	13 5⁄8"		40B/60	40B/80	40B/100	36B/144			0.52
6426816	642655V	Reducer	2655	14"	13 3⁄4"		40B/60	40B/80	40B/100	36B/144			0.5
6426352	642635V	Basic	2635	14"	14"		100	120	140	180			0.42
6426352	642635V	Basic	2635	16"	16"					240	180	210	0.42
6426689	642638V	Reducer	2638	20"	18 5⁄8"					720	420	510	0.52
6426352	642635V	Basic	2635	20"	20"					300	180	210	0.42
6426352	642635V	Basic	2635	24"	24"						180	210	0.42

*Note: "B" in the chart under "Number of inserts required" indicates the number of beveled reducer inserts required in that set