www.torcup.com

Eight Compact Tensioners
Capable of Tensioning Over
400 Standard Flanges

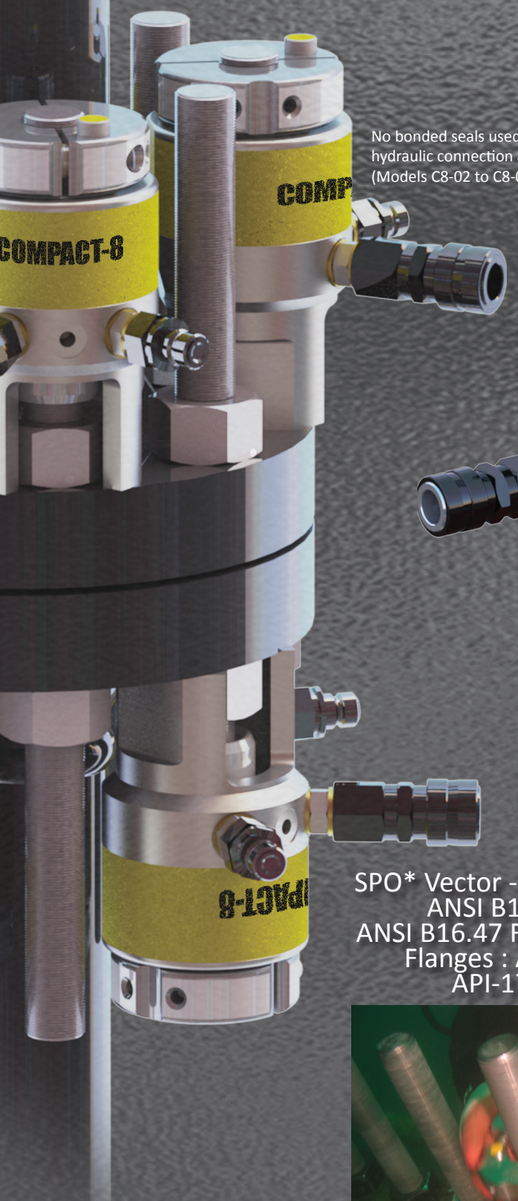
The COMPACT-8 range of subsea bolt tensioning tools brings a new generation of bolting solutions.

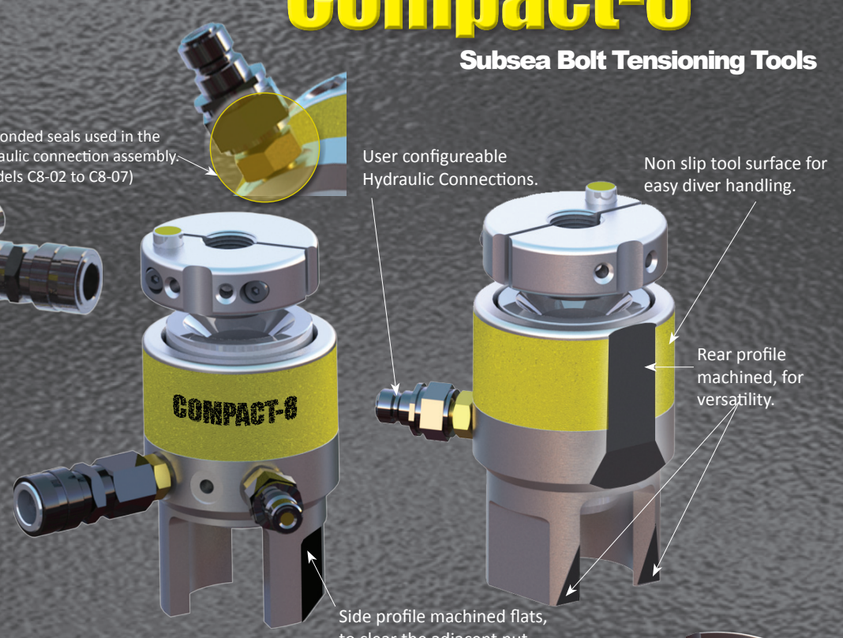
Comprised of eight bolt tensioning tools, the COMPACT-8 series is capable of tensioning most standard flanges including the newer Vector SPO* Compact flanges. The COMPACT-8 series is made from high strength stainless steel which greatly reduces maintenance work to a minimum after subsea use.

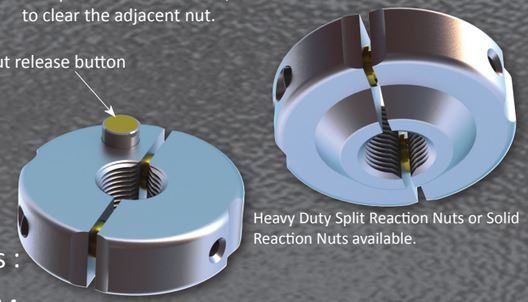
TorcUP subsea bolt tensioning tools have been used around the world since 1996 and have a proven reliability and safety record.

Compact-8

Subsea Bolt Tensioning Tools







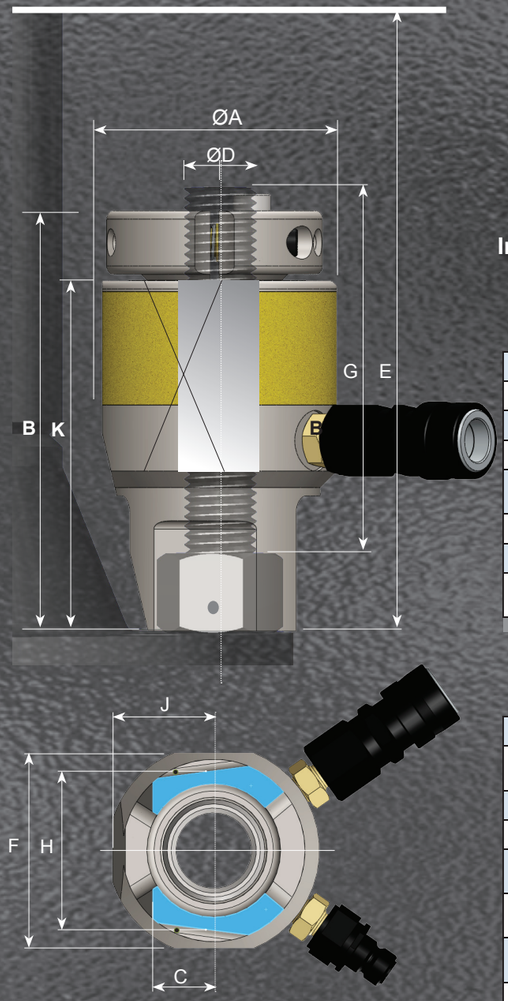
SPO* Vector - Compact Flanges :
ANSI B16.5 Flanges :
ANSI B16.47 Flanges : MSS-SP44
Flanges : API-6A Flanges
API-17D Flanges

Split Reaction Nut

The Compact-8 range of subsea Bolt Tensioning tools can be supplied with quick acting Split Reaction Nuts. Simply mount the tensioning tool over the stud to be tensioned, slide the open reaction nut over the bolt and snap the reaction nut halves together for rapid and reliable assembly. The rapid speed of fit ensures the most efficient use of expensive diver time.

Technical Specifications

Maximum Working Pressure: 1500Bar : 21750psi
Maximum ram stroke (Tools 01 to 07): 30mm : 1.181”
Maximum ram stroke (Tool 00): 20mm : 0.787”



Main Features and Benefits

- High strength Stainless Steel material.
- 30mm ram stroke available.
- Compact size for maximum usability on Vector* SPO Compact flanges.
- Quick fitting split reaction nuts available on all models.
- High quality reliable seals. 1000’s of pressure cycles
- Uses industry standard quick connect couplings.
- Non slip tool surface for easy diver handling.
- Fitted with lifting straps for easy diver handling.

Imperial Bolts

	Bolt Dia	Thread Pitch	Tool Dia	Effective Side Diameter	Tool Height	Radial Dim'n	Max Initial Bolt Load	Hydraulic Area	Ram Stroke	Extra Stud Length (Inc 3xPitches extra)	Headroom Dimension	Across Flats	Radial Dim'n	Dim'n
	D		A	F	B	C				G	E	H	J	K
	Inch		Inch	Inch	Inch	Inch	lbf	in2	Inch	Inch	Inch	Inch	Inch	Inch
C8-00	0.75	UNC	2.60	2.60	4.84	0.79	42762	1.97	0.79	4.47	8.45	1.98	1.24	3.82
	0.875	UNC	2.60	2.60	4.84	0.79	42762	1.97	0.79	4.34	8.45	1.98	1.24	3.82
C8-01	1	8-UN	3.43	3.43	6.02	0.98	73932	3.40	1.18	5.40	10.65	2.56	1.63	5.00
	1.125	8-UN	3.43	3.43	6.02	0.98	73932	3.40	1.18	5.27	10.65	2.56	1.63	5.00
C8-02	1.25	8-UN	4.11	4.11	6.50	1.10	115741	5.32	1.18	5.62	11.28	3.25	1.97	5.31
	1.375	8-UN	4.11	4.11	6.50	1.10	115741	5.32	1.18	5.50	11.28	3.25	1.97	5.31
C8-03	1.5	8-UN	4.66	4.66	7.26	1.38	167865	7.72	1.18	6.14	12.66	3.54	2.33	5.93
	1.625	8-UN	4.66	4.66	7.26	1.38	167865	7.72	1.18	6.01	12.66	3.54	2.33	5.93
C8-04	1.75	8-UN	5.65	5.65	8.30	1.89	264670	12.17	1.18	6.92	14.37	4.33	2.82	6.68
	1.875	8-UN	5.65	5.65	8.30	1.89	264670	12.17	1.18	6.80	14.37	4.33	2.82	6.68
	2	8-UN	5.65	5.65	8.30	1.89	264670	12.17	1.18	6.67	14.37	4.33	2.82	6.68
C8-05	2.25	8-UN	6.86	6.86	9.28	2.32	428046	19.68	1.18	7.41	15.47	5.35	3.43	7.08
	2.5	8-UN	6.86	6.86	9.28	2.32	428046	19.68	1.18	7.16	15.47	5.35	3.43	7.08
C8-06	2.75	8-UN	8.27	8.27	10.23	2.56	571489	26.28	1.18	7.85	17.01	6.44	4.13	7.86
	3	8-UN	8.27	8.27	10.23	2.56	571489	26.28	1.18	7.60	17.01	6.44	4.13	7.86
C8-07	3.25	8-UN	10.16	10.16	11.92	3.35	912570	41.96	1.18	9.05	19.39	8.03	5.08	9.14
	3.5	8-UN	10.16	10.16	11.92	3.35	912570	41.96	1.18	8.80	19.39	8.03	5.08	9.14
	3.75	8-UN	10.16	10.16	11.92	3.35	912570	41.96	1.18	8.55	19.39	8.03	5.08	9.14

	Bolt Dia	Thread Pitch	Tool Dia	Effective Side Diameter	Tool Height	Radial Dim'n	Max Initial Bolt Load	Hydraulic Area	Ram Stroke	Extra Stud Length (Inc 3xPitches extra)	Headroom Dimension	Across Flats	Radial Dim'n	Dim'n
	D		A	F	B	C				G	E	H	J	K
	Metric		Inch	Inch	Inch	Inch	lbf	in2	Inch	Inch	Inch	Inch	Inch	Inch
C8-00	20	2.5	2.60	2.60	4.84	0.79	42,761	1.97	0.79	4.35	8.37	1.98	1.24	3.82
	22	2.5	2.60	2.60	4.84	0.79	42,761	1.97	0.79	4.27	8.37	1.98	1.24	3.82
C8-01	24	3	3.43	3.43	6.02	0.98	73,933	3.40	1.18	5.43	10.63	2.56	1.63	5.00
	27	3	3.43	3.43	6.02	0.98	73,933	3.40	1.18	5.31	10.63	2.56	1.63	5.00
	30	3.5	3.43	3.43	6.02	0.98	73,933	3.40	1.18	5.26	10.69	2.56	1.63	5.00
C8-02	33	3.5	4.11	4.11	6.50	1.10	115,741	5.32	1.18	5.61	11.32	3.25	1.97	5.31
	36	4	4.11	4.11	6.50	1.10	115,741	5.32	1.18	5.55	11.38	3.25	1.97	5.31
C8-03	39	4	4.85	4.66	7.28	1.38	167,865	7.72	1.18	6.22	12.78	3.54	2.33	5.93
	42	4.5	4.85	4.66	7.28	1.38	167,865	7.72	1.18	6.16	12.83	3.54	2.33	5.93
C8-04	45	4.5	5.91	5.65	8.31	1.89	264,670	12.17	1.18	7.07	14.54	4.33	2.82	6.68
	48	5	5.91	5.65	8.31	1.89	264,670	12.17	1.18	7.01	14.60	4.33	2.82	6.68
	52	5	5.91	5.65	8.31	1.89	264,670	12.17	1.18	6.85	14.60	4.33	2.82	6.68
C8-05	56	5.5	7.19	6.86	9.29	2.32	428,045	19.68	1.18	7.74	15.76	5.35	3.43	7.08
	60	5.5	7.19	6.86	9.29	2.32	428,045	19.68	1.18	7.58	15.76	5.35	3.43	7.08
	64	6	7.19	6.86	9.29	2.32	428,045	19.68	1.18	7.48	15.82	5.35	3.43	7.08
C8-06	68	6	8.27	8.27	10.24	2.56	571,489	26.28	1.18	8.27	17.35	6.44	4.13	7.86
	72	6	8.27	8.27	10.24	2.56	571,489	26.28	1.18	8.11	17.35	6.44	4.13	7.86
	76	6	8.27	8.27	10.24	2.56	571,489	26.28	1.18	7.95	17.35	6.44	4.13	7.86
C8-07	80	6	10.16	10.16	11.93	3.35	912,571	41.96	1.18	9.49	19.73	8.03	5.08	9.14
	85	6	10.16	10.16	11.93	3.35	912,571	41.96	1.18	9.29	19.73	8.03	5.08	9.14
	90	6	10.16	10.16	11.93	3.35	912,571	41.96	1.18	9.09	19.73	8.03	5.08	9.14
	95	6	10.16	10.16	11.93	3.35	912,571	41.96	1.18	8.90	19.73	8.03	5.08	9.14

BTS Bolt Tightening Software

Takes the complexity out of bolt tightening calculations.

The use of TorcUP Bolt Load Software package along side the COMPACT-8 range of subsea bolt tensioning tools completely removes the complexity of calculating what pressure to operate the tensioning tools. A complete bolt tensioning project can be defined and rapid joint specific technical datasheets can be produced.

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