

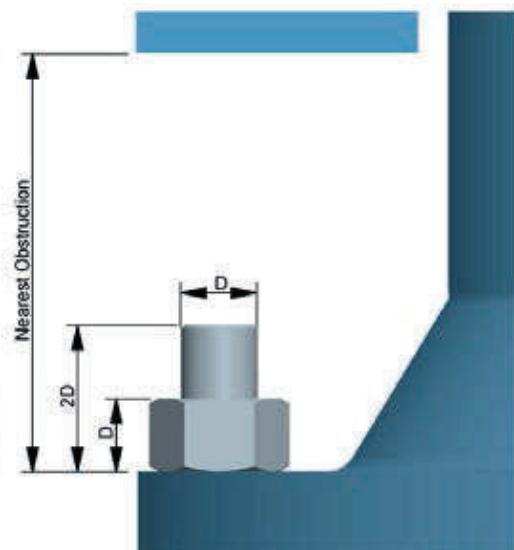
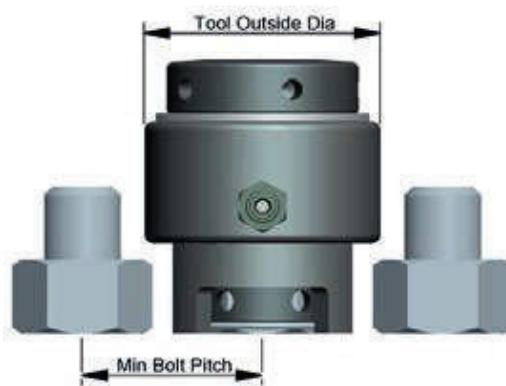


HSR BOLT TENSIONER Spring Return Bolt Tensioner

- Unique quick release bridge adaptation
- Piston overstroke prevention
- Piston stroke indication
- Piston / cylinder misalignment compensation
- Bolt coverage from 1" to 3 1/2" with just 4 tools
- Designed to fit BS1560 / ANSI B16.5 / API flanges
- Fully enclosed load cell design eliminates entry of debris into piston retraction mechanism

The Spring Return design dramatically increases productivity and safety on the job site when compared to older technology manual return tensioners.

topside.



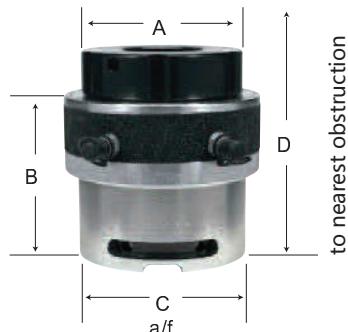
SPRING RETURN BOLT TENSIONER

Our spring return bolt tensioner reduces operator fatigue, saving time and improving safety and productivity.



Order a load cell and an adaptor kit to make a complete tensioner. each are sold separately.

Specifications and Dimensional Data



- Piston stroke - 10mm except for HS 0-8mm
- Max tool pressure - 21750psi(1500bar)
- Bolt protrusion above nut=1xbolt diameter
- "D" includes an allowance for tool removal after bolt tightening with 10mm tlls stroke
- Weight excludes puller sleeve
- Product development is constantly taking place and dimensions may change without notice

Load Cell	Stud Diameter	Tool	Load	Hydraulic Area		A in	B in	C in	D							
				Lbs	KN	in ²	mm ²	in	Imp mm	Metric mm						
HSR 0	3/4"	M20	35500	160	1.65	1067	2.6	66	3.7	93	2.5	63	5.4	136	5.5	142
	7/8"	M22							3.7	93	2.5	63	5.6	142	5.6	144
HSR 1	1.1/8"	M24	61950	280	2.89	1867	3.4	87	4.6	117	2.7	68	6.9	175	6.9	175
		M27							4.6	117	2.7	68	7.1	181	7.0	178
HSR 2	1.1/8"	M24	99700	450	4.65	3001	4.1	103	4.6	117	3.0	75	6.9	175	6.9	175
		M27							4.6	117	3.0	75	7.0	178	7.0	178
HSR 3	1.3/8"	M30	145950	660	6.82	4401	4.7	118	4.7	120	3.2	80	7.1	181	7.2	184
		M33							4.8	123	3.3	84	7.4	188	7.5	190
HSR 4	1.1/4"	M36	223550	1000	10.34	6668	5.5	140.5	4.8	123	3.5	88	7.5	190	7.6	192
		M39							5.0	126	3.8	96	7.8	197	7.8	198
HSR 5	1.5/8"	M42	331400	1500	15.50	10003	6.9	175.5	5.0	133	4.1	105	8.0	203	8.0	204
		M45							5.2	133	4.1	105	8.2	209	8.3	211
HSR 6	2.1/2"	M39	553200	2500	25.84	16671	8.6	219	5.2	132	4.4	112	8.3	211	8.4	212
		M42							5.3	135	4.5	114	8.5	217	8.6	218
HSR 7	2.3/4"	M45	708200	3200	33.06	21339	9.9	252	5.5	139	4.7	118	8.8	223	8.9	225
		M48							5.6	142	4.5	114	9.1	230	9.1	231
HSR 8	3"	M52	223550	1000	10.34	6668	5.5	140.5	5.7	145	4.7	120	9.3	236	9.4	237
		M56							5.8	148	4.7	120	9.7	246	9.8	248
HSR 9	2.3/4"	M60	331400	1500	15.50	10003	6.9	175.5	6.1	154	5.4	138	10.2	259	10.2	258
		M64							6.3	161	5.4	138	10.2	259	10.3	262
HSR 10	3.1/4"	M64	553200	2500	25.84	16671	8.6	219	6.3	161	6.0	153	10.7	272	10.8	273
		M68							6.6	167	6.1	156	11.2	284	11.1	283
HSR 11	3.1/2"	M72	708200	3200	33.06	21339	9.9	252	6.6	167	6.2	157	11.6	294	11.7	297
		M76							6.9	171	7.2	182	12.1	307	12.1	308
HSR 12	3.1/2"	M80	223550	1000	10.34	6668	5.5	140.5	7.1	180	7.5	190	12.6	320	12.7	323
		M85							7.1	180	7.5	190	13.1	332	13.2	334
HSR 13	3.1/2"	M90	331400	1500	15.50	10003	6.9	175.5	7.3	186	8.1	205	13.2	339	13.3	341
		M90							7.3	186	7.9	200	13.2	339	13.3	341
HSR 14	3.3/4"	M95	708200	3200	33.06	21339	9.9	252	7.3	186	7.9	200	13.7	352	13.5	346
		M100							7.6	192	7.9	200	14.2	363	13.9	356
HSR 15	4"								7.8	199	8.3	210	14.2	363		