

# Lightweight Lubricator

## Pressure Control Equipment

**Hunting lubricators are designed to act as a pressure chamber used to either deploy or recover tools from the wellbore whilst under pressure. There are three different lubricators manufactured by Hunting; integral single piece versions for working pressures of 15K, conventional multi part assemblies, and lightweight for 10K working pressures.**

Lightweight Lubricators use specially designed quick union connections, however, this does not define the lubricator as lightweight. It is the use of a high strength Corrosion Resistant Alloy (CRA) as the main tube that greatly reduces the weight of the assembly due to the reduced wall thickness compared to thick walled carbon steel lubricators.

Hunting also supply Lightweight Lubricators with traditional Otis or Bowen quick union connections should the client require, but with the advantage of the CRA lightweight tube.

The Lightweight Lubricator threaded connections where the CRA tube is attached to the quick union end subs have a metal to metal primary seal and an elastomer o-ring as the secondary barrier. This arrangement keeps the secondary barrier elastomer seal in prime condition as it is never exposed to well fluids. Safety is also a prime consideration; in the event that both the primary and secondary seals fail, the connection will not expand and separate, maintaining structural integrity.

All lightweight lubricators have been fully temperature tested, covering a range from -29 to + 121°C.

Lightweight Lubricators are supplied in standard lengths of 4ft, 6ft, 8ft, 10ft and 12ft although bespoke lengths have been supplied to match customer requests, and can be supplied with ports if required, being placed in the quick union connection end sub and not the CRA tube.



Weight Comparison									
ID	3"			4.06"			5 1/8"		
	Conventional Lb/Kg	Integral Lb/Kg	LTWT Lb/Kg	Conventional Lb/Kg	Integral Lb/Kg	LTWT Lb/Kg	Conventional Lb/Kg	Integral Lb/Kg	LTWT Lb/Kg
4ft	141 / 64	124 / 56	75 / 34	216 / 98	179 / 81	135 / 61	483 / 219	408 / 185	223 / 101
6ft	190 / 86	172 / 78	93 / 42	278 / 126	240 / 109	165 / 75	620 / 281	549 / 249	276 / 125
8ft	238 / 108	221 / 100	110 / 50	340 / 154	298 / 135	196 / 89	756 / 343	690 / 313	329 / 149
10ft	287 / 130	269 / 122	128 / 58	401 / 182	359 / 163	227 / 103	893 / 405	831 / 377	381 / 173
12ft	335 / 152	318 / 144	146 / 66	463 / 210	419 / 190	258 / 117	1030 / 467	972 / 441	434 / 197