



UN Regulation 129 Phase 2 -
UMTRI seating procedure
Overview

Q10: Pressure exceeds threshold without UMTRI procedure

Q10 dummy – Dorel hip liner – 50 mm APTS (1.2 bar threshold)

Test condition	Lab	CRS	Submarining	Belt in Abdomen	Pressure (L) (bar)	Pressure (R) (bar)
R129	Dorel	None	Yes	Not reported		2.53 (max)
R129	TRL	None	Yes	Yes	2.01	1.43
R129	TRL	Poor	Yes	Yes	1.32	1.40
R129	Dorel	Inflatable	Yes	Yes		3.64 (max)
R129 & UMTRI	TRL	Poor	Yes	Yes	2.41	1.31
R129+	TRL	Poor	Yes	Yes	1.94	1.32
R129+ & UMTRI	TRL	Poor	Yes	Yes	2.62	1.44
R129+ & UMTRI	TRL	Good	No	No	0.60	1.06

Q6: Pressure at / exceeds threshold without UMTRI procedure

Q6 dummy – Humanetics hip liner – 40 mm APTS (1.0 bar threshold)

Test condition	Lab	CRS	Submarining	Belt in Abdomen	Pressure (L) (bar)	Pressure (R) (bar)
R129	Dorel*	None	Yes	Not reported		1.21
R129	TRL	None	No	Yes	0.83	0.89
R129	TRL	Poor	Yes	Yes	0.93	0.93
R129 & UMTRI	TRL	Poor	Yes	Yes	1.21	1.18
R129+	TRL	Poor	Yes	Yes	1.81	1.39
R129+ & UMTRI	TRL	Good	No	No	0.32	0.32

*with Dorel hip liner

Q3: Pressure exceeds threshold only with severe pulse & UMTRI procedure

Q3 dummy – Dorel hip liner – 40 mm APTS (1.0 bar threshold)

Test condition	Lab	CRS	Submarining	Belt in Abdomen	Pressure (L) (bar)	Pressure (R) (bar)
R129	Dorel	None	No	Not reported	0.3	0.3
R129	TRL	Poor	No	Yes	0.39	0.47
R129 & UMTRI	TRL	Poor	No	Yes	0.51	0.56
R129+	TRL	Poor	No	Yes	0.56	0.58
R129+ & UMTRI	TRL	Poor	Yes	Yes	1.06	0.95
R129+ & UMTRI	TRL	Good	No	No	0.22	0.41

Q3 behaves differently to other Q-Series dummies - design issue?



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