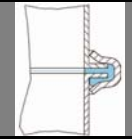
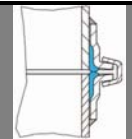


10-bar Shock Explosion Proof Summary

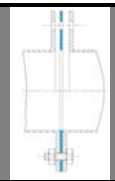
Jacob Tubing components have been tested and certified for shock explosion ratings up to 10-bar (145-psi). Tests were performed and certified by two different independent institute specialized in system safety. Certificates are available upon request.

TYPE 1 CONNECTION w/ machined lip for pull-ring*		NOTES
		
NOTE (1): 100mm, 120mm dia., 2mm thk. 150mm, 175mm, 200mm dia., 3mm thk.		
Tubes	200-2000mm lg.	
Weld Ends	60mm lg.	
Elbows, 2D	30° to 90°	

(*) - These parts use the bolted pull-ring (part #3..2383) for 100/120mm or (part #..2926) for 150/175/200mm and 2mm u-gasket

TYPE 2 CONNECTION w/ slip over flange for pull-ring**		NOTES
		
NOTE (2): 80mm, 150mm, 175mm, 200mm, 250mm, 300mm dia., 2mm thk. 250mm, 300mm dia., 3mm thk. (100mm, 120mm dia. - upon request, unless otherwise noted)		
Tubes	200-2000mm lg.	
Weld Ends	60mm lg.	
Elbows, 2D	30° to 90°	
Laterals	30° and 45°, 2mm thick (incl. 100/120mm diameters)	
Conical laterals	30° (upon special request)	
Inspection sections	2mm thick, with end covers (incl. 100/120mm diameters)	

(**) - These parts have built-in mastic seal and use the 10-bar pull-ring (part #..2382).

TYPE 3 CONNECTION, 350-630mm dia. w/ welded flange connection***	THK.	NOTES
		
Tubes	3mm	200-2000mm lg.
Elbows	3mm	30° to 90°
Flat Gaskets	3mm	Perbunan (NBR), Silicone (SI), Keltan (EPDM), Viton (FKM)

(***) - Both welded flange and flat gasket pattern is in accordance with dwg. #21DSF001b

To guarantee 10-bar (145-psi) application, the following requirements must be maintained:

1. A new gasket must be used at each connection when the components are to be re-assembled.
2. The bolts of the pull-rings/flanges must be quality grade 5/Metric class 8.8 and must be tightened with a torque wrench as follows:

FOR PULL-RINGS:	FOR LOOSE DIN FLANGE CONNECTIONS
Bolted style = 25Nm (18.4 lb-ft)	10mm bolts = 40Nm (29.5 lb-ft) 12mm bolts = 60Nm (44.3 lb-ft)