ZAC de la Lorie - 38 rue Bobby Sands 4800 Saint Herblain FRANCE
Tél : (33) 40 80 20 00 - Fax : (33) 40 33 27 07

Performance of tools according to VDI/VDE 2647

General information		
Testing date:	March 2024	
General information about tool		
Manufacturer:	Desoutter	
Machine type:	CVI3 Tool	
Model:	EFD43-8	
Part number:	6151662040	
Square:	3/8	
Maximum speed:	2000 rpm	
Minimal torque:	1 Nm	0,7 ft,lb
Nominal torque	8 Nm	5,9 ft,lb
Maximum torque:	10 Nm	7,4 ft,lb
Weight	1,8 Kgs	3,97 lb
Length	372 mm	14,6 ''
Serial number:	21A90539	
	21A90540	
	23B51523	
Picture of tool		

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Tightening at torque

Value for the duration of break between cycles					
30% soft:	5		***30 % hard:***	5	
80% soft:	20		***80 % hard:***	20	
100% soft:	45		***100 % hard***	45	
Number of tightenings for the test					
30 % of the torque range:	100				
80 % of the torque range:	100				
100 % of the torque range:	100				
Number of free speed					
All torque range:	4				
Torque test - test point specification					
Torque and torsion tested					
P1: 30 % of the torque range:	3.1 N.m	***Soft:***	30°	***Hard:***	360°
P2: 80 % of the torque range:	6.6 N.m	***Soft:***	30°	***Hard:***	360°
P3: 100 % of the torque range:	8.0 N.m	***Soft:***	30°	***Hard:***	360°
Revolutions per minute					
30 % of the torque range					
Hard	***Rundown speed (Rpm):***	50 Rpm	***Downshift speed (Rpm):***	20 Rpm	
Soft	***Rundown speed (Rpm):***	50 Rpm	***Downshift speed (Rpm):***	20 Rpm	
80 % of the torque range					
Hard	***Rundown speed (Rpm):***	50 Rpm	***Downshift speed (Rpm):***	25 Rpm	
Soft	***Rundown speed (Rpm):***	50 Rpm	***Downshift speed (Rpm):***	25 Rpm	
100 % of the torque range					
Hard	***Rundown speed (Rpm):***	50 Rpm	***Downshift speed (Rpm):***	30 Rpm	
Soft	***Rundown speed (Rpm):***	50 Rpm	***Downshift speed (Rpm):***	30 Rpm	
Torsion angle start moment (Angle threshold)					
30 % of the torque range:	***Soft:***	1.55 Nm	***Hard:***	1.55 Nm	
80 % of the torque range:	***Soft:***	3.30 Nm	***Hard:***	3.30 Nm	
100 % of the torque range:	***Soft:***	4.00 Nm	***Hard:***	4.00 Nm	
Downshift torque					
30 % of the torque range:	***Soft:***	0.2 Nm	***Hard:***	0.2 Nm	
80 % of the torque range:	***Soft:***	0.5 Nm	***Hard:***	0.5 Nm	
100 % of the torque range:	***Soft:***	0.6 Nm	***Hard:***	0.6 Nm	
Information for tightening with a battery tool					
Numbers of battery used for the tightening					
30 % of the torque range:	***Soft:***	0	***Hard:***	0	
80 % of the torque range:	***Soft:***	0	***Hard:***	0	
100 % of the torque range:	***Soft:***	0	***Hard:***	0	
Temperature maximum of tool at 80% of the torque range (360°)					
Angle head:	***Start:***	20	***End:***	20	
Motor:	***Start:***	20	***End:***	20	
Handle:	***Start:***	20	***End:***	20	

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Tightening at angle

Value for the duration of break between cycles				
40°	10			
180°	20			
Number of tightening for the test				
Tightening hard	100			
Tightening soft	100			
Number of free speed				
All tightening:	4			
Rotation angle test - test points specification				
Rotation angle				
Hard of 50 at 100% of tightening	40°			
Soft of 50 at 100% of tightening	180°			
Revolutions per minute				
40 °				
Rundown speed (Rpm):	50 Rpm		***Downshift speed (Rpm):***	20 Rpm
180°				
Rundown speed (Rpm):	50 Rpm		***Downshift speed (Rpm):***	24 Rpm
Torsion angle start moment (Angle threshold)				
40° (20% of torque range)	1.6 Nm			
180° (20% of the torque range)	1.6 Nm			
Target torque				
40° (60 % of the torque range)	4.8 Nm			
180° (80 % of the torque range)	6.4 Nm			
Information for tightening with a battery tool				
Numbers of battery used for the tightening				
40°				
180°				

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Torque tightening test

Test point			30%		80%		100%	
Test torque			3.1 N.m		6.6 N.m		8 N.m	
Joints (of 50 at 100% of tightening)			hard (30°) (±5°)	soft (360°) (±15°)	hard (30°) (±5°)	soft (360°) (±15°)	hard (30°) (±5°)	soft (360°) (±15°)
Torque tolerance upper limit (Nm)			3.3	3.3	7.1	7.1	8.6	8.6
Torque tolerance lower limit (Nm)			2.9	2.9	6.1	6.1	7.4	7.4
*Tolerance interval * (±)*			7%	7%	7%	7%	7%	7%
Serial numbers	21A90539	*Cm*	3.26	3.04	5.83	6.03	5.95	6.72
		Cmk	3.08	2.98	5.04	5.54	5.05	6.18
	21A90540	*Cm*	3.41	3.78	3.33	5.78	4.11	5.66
		Cmk	3.14	3.31	2.81	4.54	3.50	4.57
	23B51523	*Cm*	5.63	5.71	7.00	10.34	6.90	10.64
		Cmk	5.35	5.25	6.48	9.75	6.10	9.41

Min Cm/Cmk							
	Cm	***3.26***	***3.04***	***3.33***	***5.78***	***4.11***	***5.66***
	Cmk	***3.08***	***2.98***	***2.81***	***4.54***	***3.50***	***4.57***

	*Cm >2 **	*Cmk >1,67 **	
Index Min Cm	3.04	/	Compliant
Index Min Cmk	/	2.81	Compliant

Angle tightening test

			hard	soft
Angle tested (of 50 at 100% of thightening)			**40°**	**180°**
Target torque			4.8 N.m	6.4 N.m
Serial numbers	21A90539	*IT (±) (torque)*	1.6%	1.7%
		IT (±) (angle)	1.3 °	3.5 °
	21A90540	*IT (±) (torque)*	1.9%	2.5%
		IT (±) (angle)	1.7 °	3.6 °
	23B51523	*IT (±) (torque)*	1.5%	0.7%
		IT (±) (angle)	1.6 °	2.7 °

		hard 40°	soft 180°	hard 40°	soft 180°
Index IT (±) (torque)	*Must be*	*< 7%**	*< 7%**	Compliant	Compliant
	Max is	1.9%	2.5%		
Index IT (±) (angle)	*Must be*	*H ard < 5° **	*Soft < 15° **	Compliant	Compliant
	Max is	1.7 °	3.6 °		

(*) Informations for reference