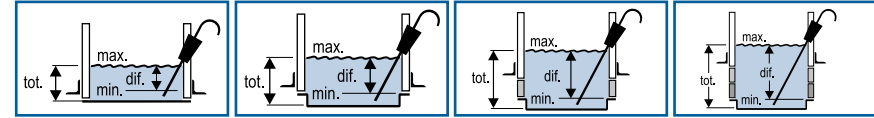
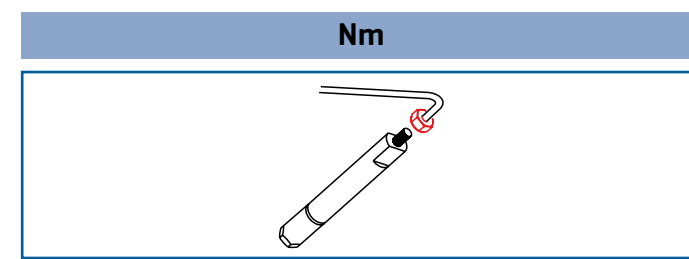
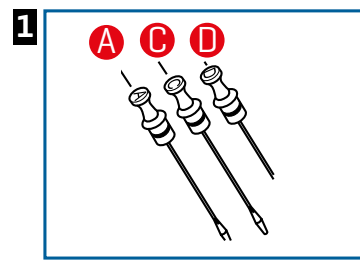


API: CD | CE | CF | CF-4 | CG-4
ACEA: B2 | E2

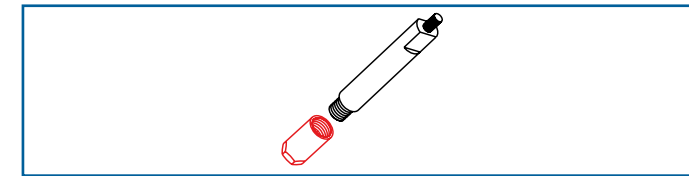
L/M43: ACEA E6 (recom. „Low Saps“)
ACEA E9
ACEA C3 | C4 (HTHS ≥ 3,5 mPas)



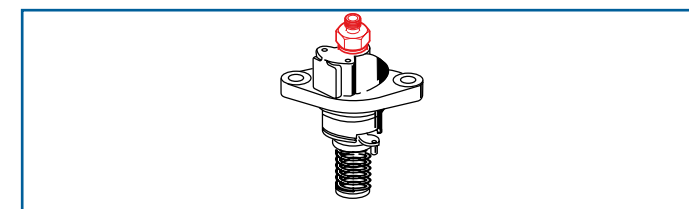
	tot. /	diff. /	tot. /	diff. /	tot. /	diff. /	tot. /	diff. /
1 B 20 (V) 1 B 27 (V)	0.9	0.5	2.6	1.6	—	—	—	—
1 B 30 (V)	1.1	0.5	2.8	1.8	—	—	—	—
1 B 40 (V) 1 B 50 (V)	1.5	0.8	3.2	2.2	—	—	—	—
1 D 41 42	—	—	1.2	0.4	2.8	2.0	4.4	3.6
1 D 50	—	—	1.5	0.5	—	—	—	—
1 D 81 90	—	—	1.9	0.9	3.2	2.2	4.5	3.5
1 D 90 V	1.6	0.7	—	—	—	—	—	—
2 G 40	2.5	0.8	3.0	0.8	—	—	—	—
2 L M 41 S	1 5.5 A	2.5	8.5 C	5.0	—	—	—	—
2 L M 41 C Z	1 4.5 A	2.0	7.5 C	4.5	—	—	—	—
3 L M 41 S	1 8.5 A	3.5	11.0 D	6.5	—	—	—	—
3 L M 41 C Z	1 8.0 A	3.0	10.5 D	6.0	—	—	—	—
3 M 43 S	1 —	—	11.0 D	6.5	—	—	—	—
3 L M 43 C Z	1 —	—	10.5 D	6.0	—	—	—	—
4 L M 41 42 43 S	1 —	—	14.0 D	9.0	—	—	—	—
4 L M 41 42 43 C Z	1 —	—	13.0 D	8.0	—	—	—	—



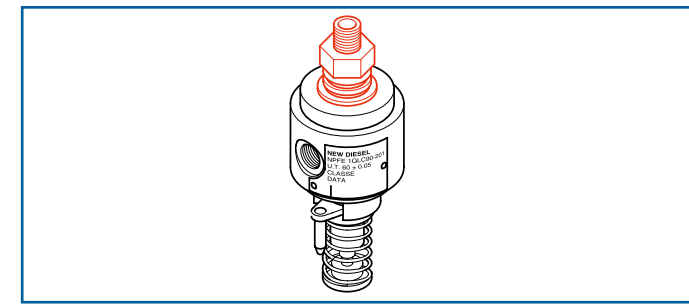
B | D | G 22 - 25



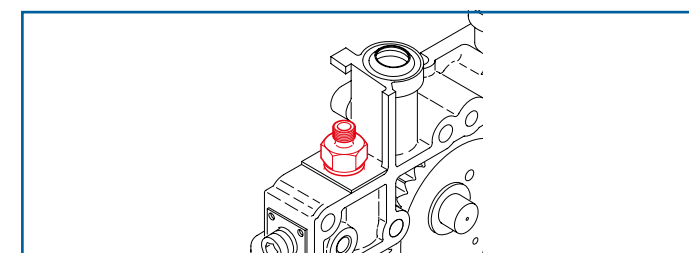
	8 5
1 B 20 27 30 40 50	30 - 35
1 D 41 42 50	50 - 60
1 D 81 90 L/M 41 42 43	60
2 G 40	60



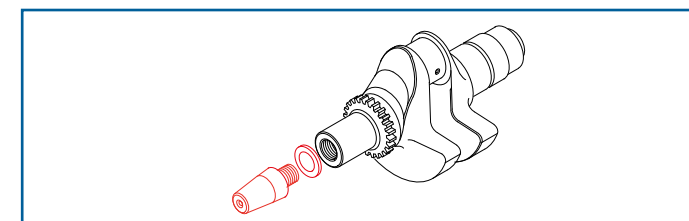
SW=19 mm	SW=22 mm
25	35



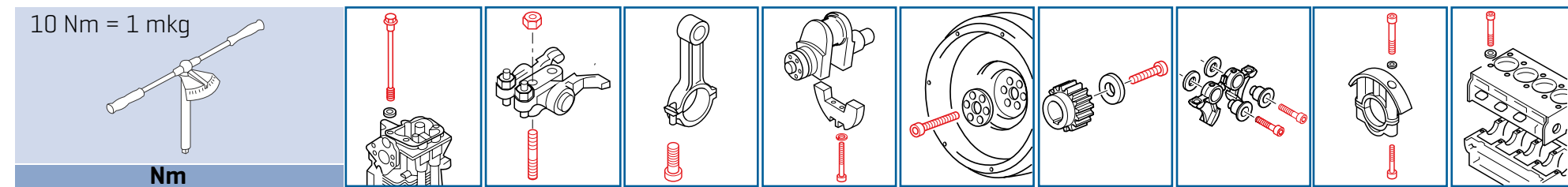
	SW=17 mm	SW=22 mm
1 D 41 42 50	60+5 - 0 - 40+5	
1 D 81 90	60+5 - 0 - 40+5	
L/M 41 42 43		60+5



1 B 20 | 27 | 30 | 40 | 50 23 - 0 - 23 - 0 - 25

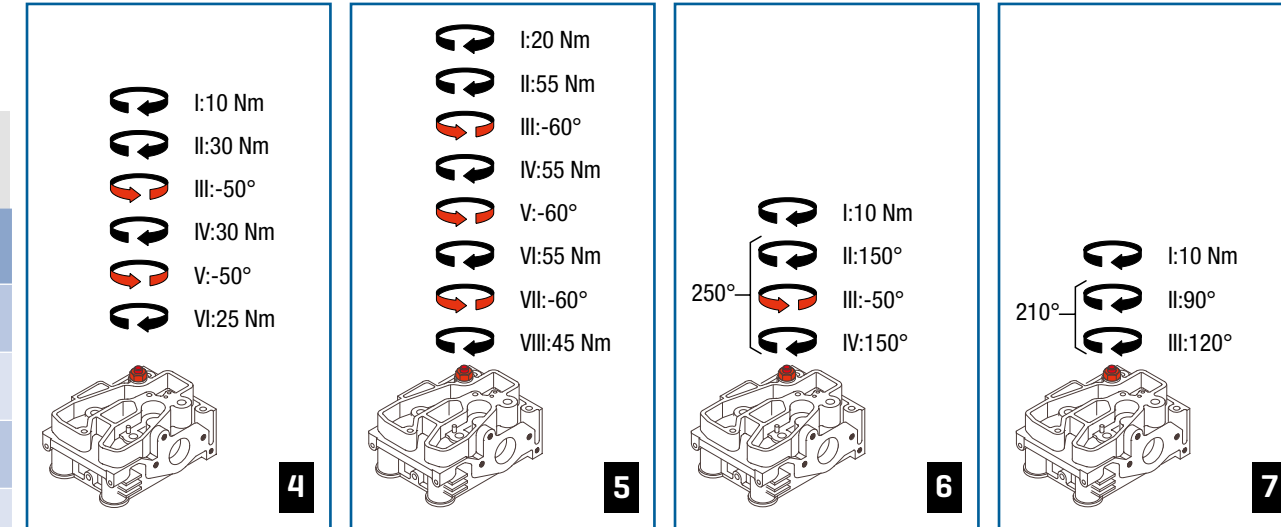


1 B 20 | 27 | 30 | 40 | 50 I 80 ⇌ II 150



1 B 20 1 B 20 V	25	4	—	22	—	350 + 20	—	9.6	—	—
1 B 27 1 B 27 V	10+ $\nless 210^\circ$	7	—	22	—	350 + 20	—	9.6	—	—
1 B 30 1 B 30 V	45	5	—	31	—	350 + 20	—	9.6	—	—
1 B 40 1 B 40 V	45	5	—	42	—	40 + 2	—	9.6	—	—
1 B 50 1 B 50 V	10+ $\nless 250^\circ$	6	—	42	—	40 + 2	—	9.6	—	—
1 D 41 42 50	50	—	—	40	40	68	—	11	—	—
1 D 81 90 V	80	—	—	85	75	M12{6x}:115 M14{5x}:190	—	11	—	—
2 G 40	55	23	—	40	—	1:30 2:280 $\nless 300^\circ$ max.	—	—	—	10
2 3 4 L M 41 42 43	65	—	—	M10:60 M11:115	65	200	30	—	—	90

	8.8	10.9	12.9
M 4	2.8	3.9	4.7
M 5	5.5	7.8	9.3
M 6	9.5	13.0	16.0
M 8	23.0	33.0	39.0
M 10	46.0	65.0	78.0
M 12	80.0	110.0	140.0
M 14	130.0	180.0	220.0
M 16	190.0	270.0	330.0
M 18	270.0	380.0	450.0
M 20	380.0	530.0	640.0
M 22	510.0	720.0	860.0



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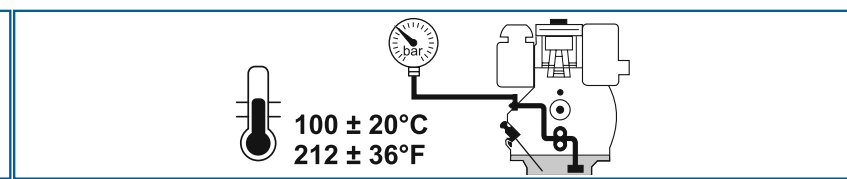
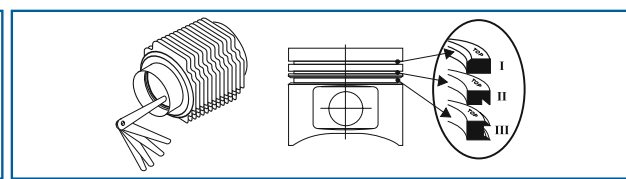
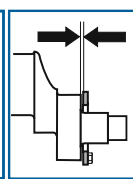
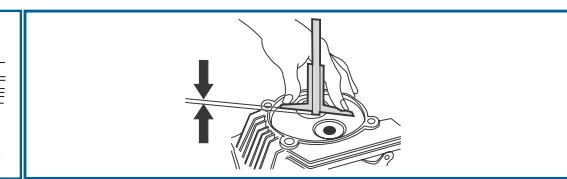
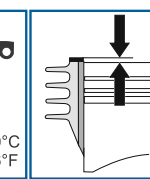
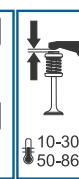
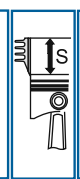
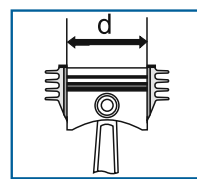


CREATING POWER SOLUTIONS.

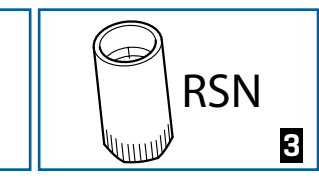
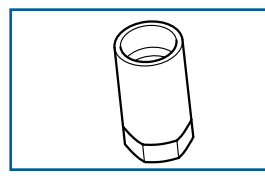
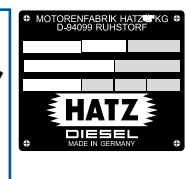
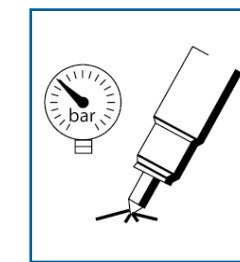


Service
Aktuelles Motorenprogramm
05/2015

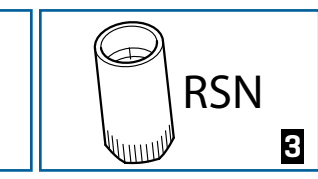
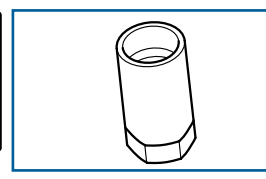
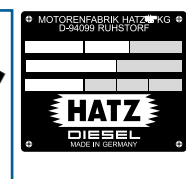
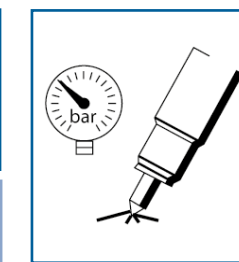
Hatz Service



	Engine-No. / Serial-No.	nom. mm	max. mm	mm		In.		Ex.		III												r.p.m. ± 10 %					
						mm	mm	mm	mm	mm	nom. mm	max. mm	nom. mm	max. mm	850		1500		2300		3000						
						mm	mm	mm	mm	mm	nom. mm	max. mm	nom. mm	max. mm	nom.	min.	nom.	min.	nom.	min.	nom.	min.					
1 B 20 1 B 20 R 1 B 20V	100.10-29 300.28-29 111.10-19 301.18-19	69.00	69.11	62		0.1	0.55-0.65	0±0.10	0.40	0±0.10	0.40																
	100.30 300.30 111.20 301.20					0.2	0.45-0.55	0.5 neg. 2	0.1 neg.	0.5 neg. 2	0.1 neg.																
	100.31-34 300.31 111.22-24 301.21					0.2	0.45-0.55	0.5 neg. 2	0.1 neg.	0.5 neg. 2	0.1 neg.																
1 B 27	125.10-13	74.00	74.11	65		0.45-0.55	0.5 neg. 2	0.1 neg.	0.5 neg. 2	0.1 neg.																	
1 B 30 1 B 30V	101.10-24 302.24 112.10-15 303.14-15	80.00	80.11	69		0.50-0.55	0±0.10	0.40	0±0.10	0.40																	
	101.25-29 302.25-26 112.16-20 303.16-17					0.55-0.60	0.6 neg. 2	0.2 neg.	0.6 neg. 2	0.2 neg.	—	0.25-0.45	0.8	0.25-0.45	1.4	0.20-0.45	1.2	—	—	1.5-2.6	1.0	2.0-3.2	1.5	3.0-4.0	2.0		
	110.10-13 304.12-13 117.10-13 305.12-13					0.1 3	0±0.10	0.40	0±0.10	0.40																	
1 B 40 1 B 40V	110.14-18 304.14 117.14-19 305.14	88.00	88.13	76		0.55-0.60	0.6 neg. 2	0.2 neg.	0.6 neg. 2	0.2 neg.																	
	124.10-13 306.10-11 126.10-13 307.10-11					0.55-0.60	0.6 neg. 2	0.2 neg.	0.6 neg. 2	0.2 neg.																	
	124.14-15 126.14-16					0.55-0.60	0.6 neg. 2	0.2 neg.	0.6 neg. 2	0.2 neg.																	
1 D 41	094.10-20 094.21-22	90.00	90.13	65		0.6±0.1	0.2	0.6±0.1	0.2																		
	0.6±0.1neg. 2					0.2 neg.	0.6±0.1neg. 2	0.2 neg.																			
1 D 42	133.10-11 155.10 157.10	90.00	90.13	70	in. 0.1 +0.05	0.60-0.65	0.6±0.1neg. 2	0.2 neg.	0.6±0.1neg. 2	0.2 neg.																	
	109.10-15 109.16-20 156.10					ex. 0.2 +0.05	1.0±0.1	1.40	1.0±0.1	1.40	0.1-0.25																
1 D 81	073.10-27 159.27 160.27 316.27	100.00	100.16	85		0.75-0.85	0±0.10	0.40	0±0.10	0.40																	
	108.10-19 108.20 113.10-16					0.3 +0.05	0.30-0.45	0.50-0.75	1D90V/W: 0.05-0.10	0.30-0.45	0.50-0.75																
2 G 40	091.10-18 091.19-22	92.00	92.13	75		0.1 +0.05	0.65-0.70	0±0.10	0.4	0±0.10	0.4	0.10-0.20	0.40-0.65	1.0	0.40-0.65	1.6	0.30-0.60	1.4	1.3-2.6	0.6	1.6-4.0	1.0	2.6-5.0	1.6	3.4-5.0	2.2	
	2 3 4 L M 41					10-14	0.85-0.95	—	—																		
4 L M 42	10	102.00	102.17	105		0.1 +0.05	0.85-0.90	0.15-0.00 neg. 2	—	0.15-0.00 neg. 2	—	0.15-0.7	0.40-0.65	1.2	0.40-0.65	1.8	0.30-0.60	1.6	1.0-1.8	0.6	1.6-2.5	1.2	2.0-2.8	1.6	2.3-3.0	1.8	
3 4 L M 43	10						0.85-0.90	—	—																		



	Engine-No. / Serial-No.	bar	psi	bar	psi
1 B 20V	111 [10 - 12]				
1 B 20	100 [23 - 29] 300 [28 - 29]	250+12	3600+175		
	1 B 20V			111 [13 - 19] 301 [18 - 19]	
1 B 20	100 [30 - 34] 300 [30 - 31]			200+10	2900+145
	1 B 20V	111 [20 - 24] 301 [20 - 24]			
1 B 20 R	144 [10 - 13]			200+10	2900+145
1 B 27	125 [10 - 11]			200+10	2900+145
1 B 30	101 [10 - 16]	180+8	2600+110		
1 B 30	101 [17 - 24] 302 [24]	220+12	3170+175		
	1 B 30V			112 [10 - 15] 303 [14 - 15]	
1 B 30	101 [25 - 29] 302 [25 - 26]			200+10	2900+145
	1 B 30V	112 [16 - 20] 303 [16 - 17]			
1 B 40	110 [10 - 13] 304 [12 - 13]	220+12	3170+175		
	1 B 40V			117 [12 - 13] 305 [14]	
1 B 40	110 [14 - 18] 304 [14]			200+10	2900+145
	1 B 40V	117 [14 - 19] 305 [14]			
1 B 50	124 [10 - 15] 306 [10 - 11]			200+10	2900+145
	1 B 50V	126 [10 - 16] 307 [10 - 11]			



	Engine-No. / Serial-No.	bar	psi	bar	psi	
						1 D 41 S,Z,T,U,C
1 D 41 S,Z,T,U,C	094 [18 - 20]	225+12	3250+175			
1 D 41 S,Z,C	094 [21 - 22]			225+8	3250+110	
	1 D 42 S,Z,C	133 [10 - 11] 155 [10] 157 [10]			225+8	3250+110
1 D 50 S,Z,T,U	109 [10 - 15]	225+12	3250+175			
	1 D 50 S,Z	109 [16 - 20] 156 [10]			225+12	3250+175
1 D 81 S,Z,T,U,C	073 [10 - 19]	235+8	3400+110			
	1 D 81 S,Z,C	073 [20 - 23]	270+12	3870+175		
1 D 81 S,Z,C	073 [24 - 27] 159.27 160.27 316 [27]			250+8	3600+110	
	1 D 90 S,Z	108 [10 - 14]	235+8	3400+110		
	1 D 90 V,W	113 [10]				
	1 D 90 S,Z	108 [15 - 17] 113 [11 - 14]	270+12	3875+175		
1 D 90 S,Z	108 [18 - 19]			250+8	3600+110	
	1 D 90 V,W	113 [15 - 16]				
2 G 40	091 [10 - 20]	250+12	3600+175			
2 G 40	091 [21]			250+12	3600+175	
2 3 4 L M 41	102 [10 - 12] 105 [10 - 12] 103 [10 - 12] 106 [10 - 12] 104 [10 - 12] 107 [10 - 12]	230+12	3300+175			
	102 [13 - 14] 105 [13 - 14] 153 [10] 154 [10] 103 [13 - 14] 106 [13 - 14] 104 [13 - 14] 107 [13 - 14]	240+12	3450+175			
	4 L M 42	[10]		250+5	3600+70	
	3 4 L M 43	[10]	260+12	3740+175		

