



Injectoarele asamblate cu pulverizatoare sunt produse de precizie care fac parte din instalatia de alimentare a motoarelor cu aprindere prin comprimare (Diesel). Ele au rolul sa introduca motorina pulverizata in camera de ardere a motorului la o anumita presiune, pe o anumita directie si cu o anumita forma a jetului astfel incat arderea sa fie cat mai completa.

A. - Fixare cu flansa :

1. - Cu tija scurta :
 - 1) - normal tip RO - KB...S..;
 - 2) - cu masa redusa tip RO - KBA...S..
 - 3) - cu masa redusa tip RO - KBA...SD..
 - 4) - cu masa redusa tip RO - KBA...P...
2. - Cu tija lunga :
 - 1) - marime P tip RO - KBAL...P.,
 - 2) - marime S
 - 1 - normal tip RO - KBL...S.,
 - a) - pentru familia de motoare D.110; AVL; SR;
 - b) - pentru familia de motoare SAVIEM;
 - c) - pentru familia de motoare FIAT;
 - d) - pentru familia de motoare PERKINS;
 - e) - pentru familia de motoare NAVALE.
 - f) - pentru banc de centricubat;
 - g) - pentru motoare (Italia);
 - h) - pentru motoare (Spania);
 - 2 - masa redusa tip RO - KBAL....S..
 - 3) - marime T
 - 1 - normal tip RO - KBL...T..
 - a) - pentru motor locomotiva LDE si LDH;
 - b) - pentru motoare navale 6 VD 26/20 AL2; VD 26/20 AL1;
 - c) - pentru motoare navale NVD 26 A2;
 - d) - pentru motoare navale 5T 23 LH;
 - 2 - cu masa redusa tip RO - KBAL....T..
 - a) - pentru motor locomotiva ALCO;
 - b) - pentru motoare navale 6 NVD 36 A1A; 6 NVD 36 A1;
 - 4) - marime U
 - 1 - normal tip RO-KBL...U...;
 - 2 - cu masa redusa tip RO-KBAL...U...;
 - 3 - cu racire tip RO-KBF...U...;

B. - Fixare pe filet:

1. - Normal tip RO-KC...SD...(filet pe corpul injectorului);
2. - Cu masa redusa tip RO-KCA...SD...;
 - 1)- eliminarea surplusului de motorina prin tevute
 - 2)- eliminarea surplusului de motorina prin bulon racord

C. - Fixare cu bucsa filetata :

1. - Normal tip RO-KDL...S...;
 - 1)- pentru pulverizator RO-DLLA...S...;
 - 2)- pentru pulverizator RO-DLL...S...;
 - 3)- pentru pulverizator RO - DN...S...;
2. - Cu masa redusa tip RO-KDAL...S...;
 - 1)- cu eliminarea surplusului de motorina prin tevute fixe;
 - 2)- cu eliminarea surplusului de motorina prin tevute
 - a)- pentru motor MTU V331 si V396
 - b)- pentru motor M836 SR
 - c)- pentru motor MB836; MB820
 - 3)- cu eliminarea surplusului de motorina prin bulon racord
3. - Cu masa redusa tip RO - KDAL.....P...

Pe injectoarele enumerate mai sus se monteaza pulverizatoare de marime P,S,T si U.

The injectors assembled with nozzles are precision items which are part of the feeding installation of Diesel engine.

The pulverized diesel - oil enter the combustion chamber at a certain pressure, on a certain direction to get a complete combustion.

A. Fastening by flange:

1. With short bar:
 - 1) normale ,type RO-KB...S... :
 - 2) with reduced weight, type RO - KBA...S... ;
 - 3) with reduced weight tip RO - KBA...SD...;
 - 4) with reduced weight tip RO - KBA...P...;
2. With long bar
 - 1) P size, type RO- KBAL...P...;
 - 2) S size
 1. normale, type RO-KBL...S...;
 - a) for Diesel engines D110; AVL; SR;
 - b) for SAVIEM engines
 - c) for FIAT engines
 - d) for PERKINS engines
 - e) for marine engines
 - f) for
 - g) Italia engines;
 - h) Spania engines;
 2. reduced weight, type RO-KBAL...S...;
- 3) T size
 1. normale ,type RO-KBL...T...;
 - a. for LDE ,LDH engines
 - b. for marine engines 6 VD 26/20 AL2; VD26/20 AL1
 - c. for marine engines NVD26A2
 - d. for marine engines 5T23LH
 2. with reduced weight , type RO-KBAL...T...;
 - a. for ALCO engine
 - b. for marine engines 6NVD 36A1A, 6NVD36A1
- 4) U size
 1. normale, type RO-KBL...U...;
 2. with reduced weight, type RO-KBAL...U...;
 3. With cooling, type RO-KBF...U...;

B. Fastening by flange:

1. Normale, type RO-KC...SD...(threath on the injector body)
2. With reduced weight, type RO-KCA...SD..;
 - 1) elimination of the oil excess through pipes
 - 2) elimination of the oil excess through a connecting sleeve

C. Fastening with threaded sleeve:

1. Normale, type RO-KDL...S...;
 - 1) for nozzles RO-DLLA...S...;
 - 2) for nozzles RO-DLL...S...;
 - 3) for nozzles RO - DN...S...;
2. With reduced weight, type RO-KDAL...S...;
 - 1)- elimination of the oil excess through fixed pipes
 - 2)- elimination of the oil excess through pipes
 - a) for MTU V331 and V396 engines;
 - b) for M836 SR engines;
 - c) for MB836; MB820 engines;
 - 3)- elimination of the oil excess through a connecting sleeve;
3. - With reduced weight, type RO - KDAL....P..

On the above mentioned injectors, it mounted nozzles size P,S,T,U, according to their features.

INJECTOARE

	RO	K	B	A	L	242	T	45	R	
Romania										Romania
Injector										Cod de fabricatie
Sistem de fixare										Marime P ; S ; T ; U .
B - cu flansa										lungime totala (mm)
C - pe filet										
D - cu bucsa filetata										
Masa redusa										Tip lung

	RO	K	B	A	L	242	T	45	R	
Romania										Romania
Injector										Manufacturing code
The fixing system										Size P ; S ; T ; U .
B - with flange										Total lenght (mm)
C - thread fitted										
D - thread sleeve fitted										
Reduced weight										Long type

INJECTORS

INJECTOARE

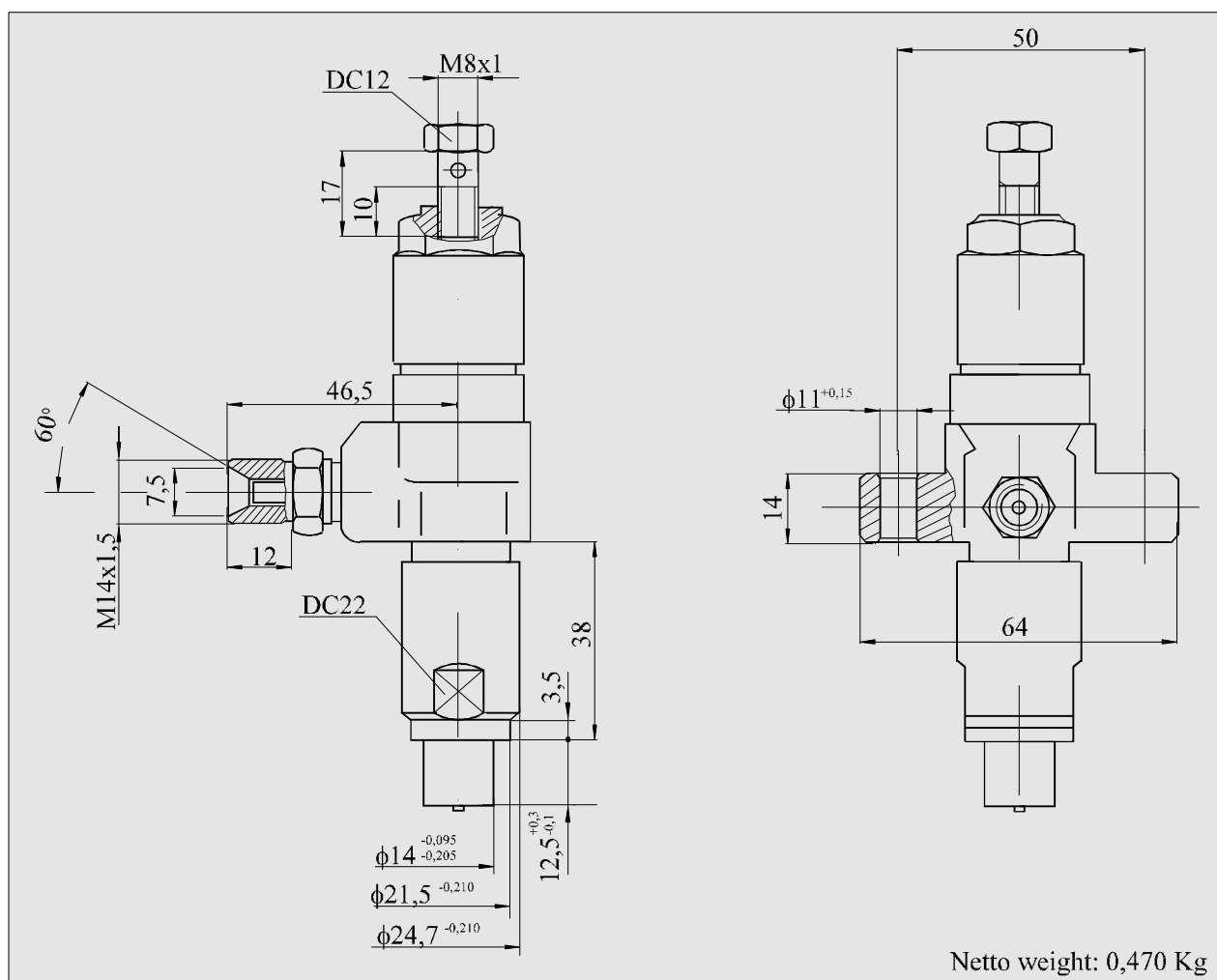
Pag	Simbol	Simbol/item injector	Simbol/item Nozzle	Opening pressure	Main use engines
49	0 832 281 012	RO-KB 36 SD 25 0 831 201 002	RO-DN 15 SD 1R 0 834 250 000	⁺⁸ 130	KD 35
50	0 832 281 029	RO-KB 52 S 31 0 831 201 001	RO-DN 5 S 85 2G16-S42 - 1	⁺⁵ 125	D 15
51	0 832 280 001	RO-KB32 S 112 0 831 201 003	RO-DL110 S 177 0 833 200 009	⁺⁸ 190	M 33T
52	0 832 296 000	RO-KBA 51 S 38 0 830 212 000	RO-DN 4 S 47 0 834 200 000	⁺⁵ 130	S 312 C (RAK)
53	0 832 296 001	RO-KBA 38 S 63 0 831 211 000	RO-DN 15 SD 1R 0 834 250 000	⁺⁸ 130	KD 35
54	0 832 291 020	RO-KBA 66 S 99 0 831 212 003	RO-DLLA 149 S119 0 833 271 040	⁺⁵ 175	DEUTZ
55	0 832 296 003	RO-KBA 65S 124 0 831 212 004	RO-DLL 150S 188 0 833 272 034	⁺⁸ 175	IRAN
56	0 832 297 000	RO-KBA 41 SD75 0 831 211 001	RO-DNOS 206 0 834 200 008	⁺⁸ 140	ANDORIA
57	0 832 296 002	RO-KBA 51 SD 74 0 831 212 001	RO-DN0SD 102 0 834 250 012	⁺⁵ 110	E 780;E79 E71; E75 HATZ
58	0 832 291 032	RO-KBA 66P 127 0 831 220 001	RO-DLL 150P 190 0 831 171 017	⁺⁸ 210	DT 3900G
59	0 832 291 018	RO-KBAL 108 P 93 0 831 222 001	RO-DLLA147 P 163 0 833 171 008	⁺⁸ 240	1070 -L6- DT
60	0 832 291 002	RO-KBAL 108 P 37 0 831 213 003	RO-DLLA 150 P44 0 833 171 000	⁺⁸ 240	V8-DT 1240-V8
61	0 832 291 009	RO-KBAL 88 P69 0 831 213 009	RO-DLLA 150 P 162 0 833 171 007	⁺⁵ 240	550 -L6-DT 550-L6-DTi
62	0 832 281 000	RO - KBL 103 S 15 /13 0 831 204 013	RO - DLLA 150 S 720 0 433 271 036	⁺⁸ 175	D 110; D 120
	0 832 281 016	RO - KBL 103 S 15 /13 0 831 204 013	RO - DLLA 150 S 720 0 433 271 036	⁺⁸ 200	D 109 B
	0 832 281 004	RO - KBL 101 S 5 R 0 831 204 001	RO - DLLA 150 S 7 R 0 833 271 001	⁺⁸ 190	D 140; D 118 D 118 050
	0 832 281 006	RO - KBL 103 S 6 R 0 831 204 002	RO -DLLA 140 S 10 R 0 833 272 003	⁺⁸ 185	M 836 SR spare part
63	0 832 281 005	RO-KBL 76 S 2R 0 831 204 000	RO-DLLA 25 S 9R 0 833 270 003	⁺⁸ 190	SAVIEM 795-05
	0 832 281 018	RO-KBL 76 S 15 0 831 204 007	RO-DLLA 18 S 16 0 833 271 008	⁺⁸ 220	SAVIEM supraalimentat
64	832 281 024	RO - KBL 70 S 23 0 831 204 011	RO - DLLA 145 S 448 0 433 271 199	⁺⁸ 230	D 115 D 127
	0 832 281 027	RO - KBL 70 S 23 0 831 204 011	RO - DLLA 141 S 662 0 433 271 325	⁺⁸ 230	Fiat with bigger bore D 115050,D 121 050
	0 832 281 030	RO - KBL 70 S 23 0 831 204 011	RO - DLLA 160 S 39 0 833 271 017	⁺⁸ 200	1 L82 82 D si 1... 4 L95 95 D
	0 832 281 033	RO - KBL 70 S 34 0 831 204 015	RO - DLLA 141 S 662 0 433 271 325	⁺⁸ 230	D 2601050 ...060
	0 832 281 034	RO - KBL 70 S 34 0 831 204 015	RO - DLLA 145 S 448 0 433 271 199...910	⁺⁸ 175	D 2601000,

Pag	Simbol	Simbol/item injector	Simbol/item Nozzle	Opening pressure	Main use engines
65	0 832 281 031	RO - KBL 67 S 33 0 831 204 014	RO - DLLA 150 S13 R 0 833 271 005	⁺⁵ 195	Perkins D 3900
	0 832 281 032	RO - KBL 67 S 33 0 831 204 014	RO - DLLA 150 S 8 R 0 833 271 002	⁺⁵ 195	Perkins D3. 152
66	0 832 281 028	RO-KBL 130 S 27 0 831 204 012	RO-DL 140 S 22 M 0 833 200 000	⁺⁵ 210	5 CIN 18 / 22
67	0 832 281 052	RO-KBL 100 S 103 0 831 204 023	RO-DN 12 SD 5 E 182 B 681 443 014	⁺⁵ 210	banc centricubat
68		RO-KBL 106 S 86 0 831 204 021			ITALIA piese schimb
69		RO-KB 91 S 90 0 831 203 001			ITALIA piese schimb
70	0 832 281 049	RO-KBL138 S 87 0 831 205 022	RO-DLLA 144 S 58 0 833 271 019	⁺⁸ 190	SPANIA
71	0 832 280 000	RO-KBL 112 S 81 0 831 204 019	RO-DL 120 S 144 0 833 200 008	⁺⁵ 210	D - 160
72	0 832 291 008	RO-KBAL 69 S 68 0 831 213 008	RO-DLLA 160 S 95 0 833 271 028	⁺⁸ 215	AS 30
73	0 832 291 003	RO-KBAL 108 S 39 0 831 213 004	RO-DLLA 150 S 36 0 833 271 013	⁺⁵ 240	1240 V8... V8 DT
74	0 832 291 011	RO-KBAL 87 S 72 0 831 213 012	RO-DLLA 160 S 101 0 833 271 032	⁺⁵ 240	E 786 HATZ
75	0 832 291 013	RO-KBAL 90 S71 0 831 213 011	RO-DLLA 160 S 100 0 833 271 031	⁺⁵ 250	3 M 40 ,4 M40 3 M 31 ,4 M 31 HATZ
76	0 832 291 021	RO-KBAL 76 S 105 0 831 213 016	RO-DLLA 151 S 164 0 833 271 051	⁺⁵ 240	VAMO
77	0 832 291 034	RO-KBAL 83S 129 0 831 213 018	RO-DLLA 124S 191 0 833 271 114	⁺⁸ 230	PAKISTAN
78	0 832 291 007	RO-KBAL 79 S 64 0 831 213 007	RO-DLLA 160 S 93 0 833 271 027	⁺⁵ 190	M 511
79	0 832 380 000	RO-KB 200 TA 822/12 0 431 308 019	RO-DL 145 T 1113 0 433 300 258	⁺⁸ 250	12 LDA 28 12 LDA 28
	0 832 380 001	RO-KB 200 TA 822/12 0 431 308 019	RO-DL 145 T 1122 0 433 300 261	⁺⁸ 250	6 LDA 28 6 LDS 28
80	0 832 380 002	RO-KB 200 TA 26 0 831 308 000	RO-DL 155 T 27 0 833 300 002		6VD 26/20 AL1
	0 832 380 003	RO-KB 200 TA 26 0 831 308 000	RO-DL 155 T 28 0 833 300 003		6VD 26/20 AL2
81	0 832 380 007	RO-KB 140 TA 59 0 831 308 003	RO-DL 130 T 41 0 833 300 008	⁺⁵ 250	NVD 26 A 2
82	Y 45 - 00	RO-KBAL 242 T 45 R Y 45-01	RO-DL 145 T 11 Y 45-02	⁺⁸ 250	ALCO 6 R 251
	Y 59 - 00	RO-KBAL 242 T 45 R Y 45-01	RO-DL 145 T 40 0 833 300 007	⁺⁸ 250	6 R 251 CGE
	Y 65 - 00	RO-KBAL 242 T 45 R Y 45-01	RO-DL 145 T 46 0 833 300 009	⁺⁸ 250	6 R 251 FLO
83	0 832 380 004	RO-KBAL 180 T 47 0 831 308 001	RO-DL 130 TA 29 0 833 300 004	⁺⁸ 280	8 NVD 36 A1

Pag	Simbol	Simbol/item injector	Simbol/item Nozzle	Opening pressure	Main use engines
83	0 832 380 005	RO - KBAL 180 T 47 0 831 308 001	RO - DL 130 TA 30 0 833 300 005	⁺⁸ 280	8 NVD 36 A1A
84	0 832 482 000	RO-KBF 246 UV 57 0 831 428 000	RO-DLF 150 UV 69 0 833 450 001	⁺⁸ 250	5 AL 25/30
85	0 832 207 005	RO - KC 57 SD 10 R 0 830 202 001	Y 1-02	⁺⁸ 170	MB - 836 MB - 820
	0 832 207 004	RO - KC 57 SD 10 R 0 830 202 001	2G16-S 42	⁺⁸ 140	MB 836,MB 820 element 12
	0 832 207 003	RO - KC 57 SD 9 R 0 830 202 000	2G16-S-42T	⁺⁸ 145	D 105 A
	0 832 207 002	RO - KC 57 SD 9 R 0 830 202 000	Y28-02-1	⁺⁸ 110	D 105
	0 832 207 001	RO - KC 57 SD 23 4 0 430 202 001	RO-DN0SD 130 0 434 250 004	⁺⁸ 175	D 55 , D 80 D 110 T N
	0 832 207 000	RO - KC 57 SD 224 0 430 202 004	RO-DN0SD 130 0 434 290 003	⁺⁸ 175	M - 581 M - 583
86	0 832 207 012	RO-KCA30 SD 66 0 830 211 005	RO-DN0SD21 0 834 250 003	⁺⁵ 115	Mercedes Volvo
87	0 832 207 006	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 21 0 834 250 003	⁺⁸ 130	ARO L 27D
	0 832 207 006Z	RO-KCA 30 SD 16Z 0 830 211 000	RO-DN0SD 21 0 834 250 003	⁺⁸ 110	ARO 24 Polonia
88	0 832 207 014	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 18 0 834 250 002	⁺⁵ 125	Audi, Fiat, Volvo Mercedes, Renault
	0 832 207 015	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 127 0 834 250 013	⁺⁵ 130	Audi, Nisan, Volvo Wolswagen
	0 832 207 019	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 51 0 834 250 006	⁺⁵ 120	Mercedes Agregat frigorific
	0 832 207 020	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 21 0 834 250 003	⁺⁵ 115	Alfa Romeo, Peugeot Mercedes, Rover
	0 832 207 022	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 128 0 834 250 014	⁺⁵ 125	Mercedes Isuzu
	0 832 207 023	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 137 0 834 250 018	⁺⁵ 135	Fiat, Ford, Opel, Seat Volvo, Vauxhall
	0 832 207 024	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 134 0 834 250 015	⁺⁵ 120	Citroen, Ford Peugeot
	0 832 207 025	RO-KCA 30 SD 16 0 830 211 000	RO-DN 12 SD 136 0 834 250 017	⁺⁵ 130	Fiat, Lancia Iveco
89	0 832 217 000	RO-KCA 17SD 142 0 830 211 007	RO-DN0SD 140 0 834 250 020	⁺⁸ 130	
90	0 832 207 011	RO-KCA 30 SD 53 0 830 211 004	RO-DN0SD 131 0 434 290 003	⁺⁸ 190	6VD 18/15AL1
91	0 832 207 009	RO-KCA 30 SD 43 0 830 211 002	RO-DN0SD 21 0 834 250 003	⁺⁸ 130	D 2601050 MN D 2610030 MA locomotiva mina
92	0 832 207 013	RO-KCA 30 SD 92 0 830 211 006	RO-DN12 SD 5R 0 834 290 000	⁺⁵ 125	VD 8
93	0 832 281 002	RO - KDL 94 S 3 R 0 831 210 000	RO - DLLA 35 S 377 0 833 270 002	⁺⁸ 175	D-2156 HMN 8 D-2356 HMN 8

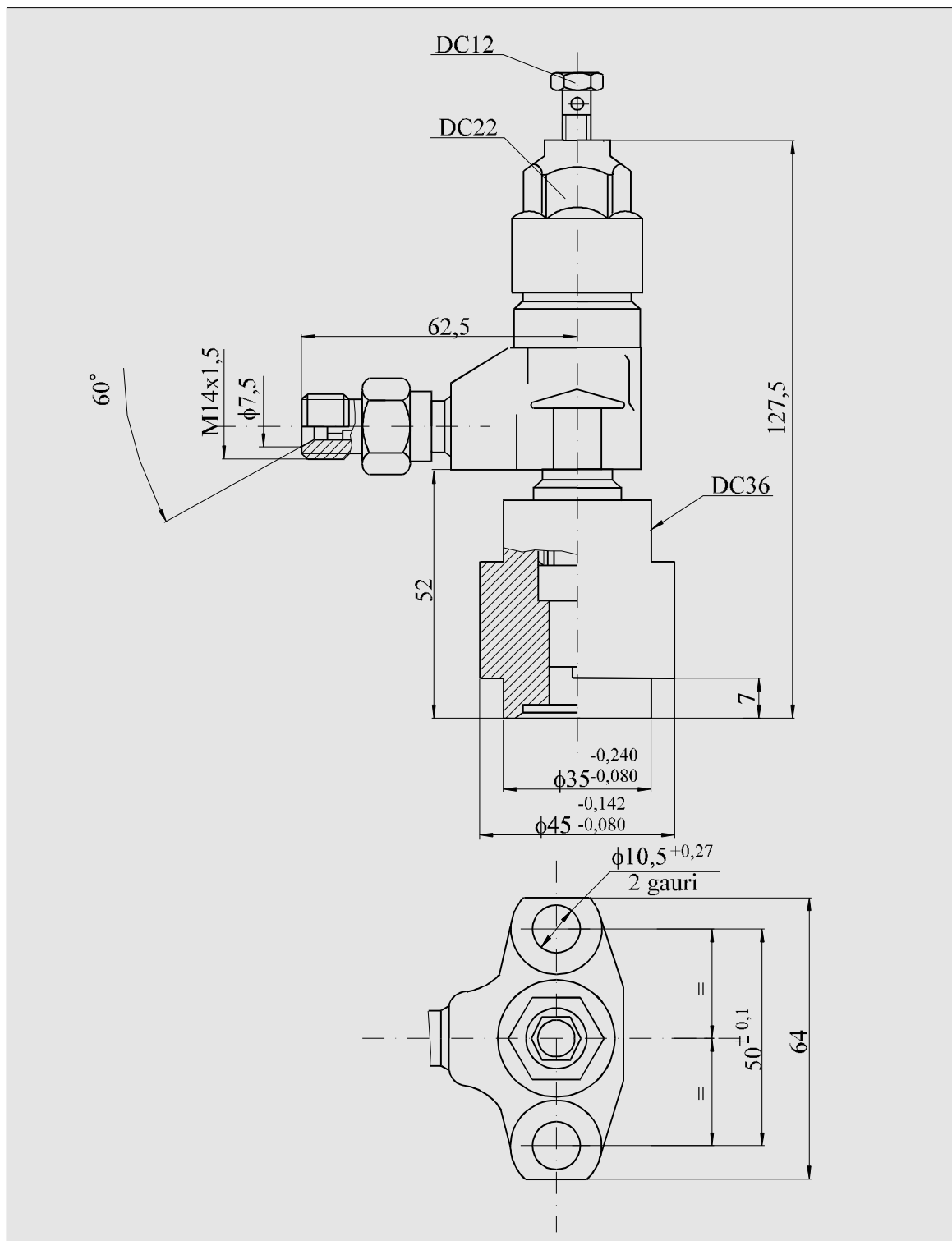
Pag	Simbol	Simbol/item injector	Simbol/item Nozzle	Opening pressure	Main use engines
93	0 832 281 011	RO - KDL 94 S 3 R 0 831 210 000	RO - DLLA 38 S 208 0 833 271 006	⁺⁸ 175	D - 2156 MTN8
	0 832 281 023	RO - KDL 94 S 3 R 0 831 210 000	RO - DLLA 38 S 208 0 833 271 006	⁺⁸ 190	Ungaria D-2156 MT6
	0 832 281 007	RO - KDL 94 S 1813 0 831 210 001	RO - DLLA 35 S 2180 0 833 271 003	⁺⁸ 175	D-128; D-131 D-2156 HMN 6
	0 832 281 010	RO - KDL 54 S 1813 0 831 210 001	RO - DLLA 35 S 262 0 433 270 081	⁺⁸ 175	D-2156 HMN 81 85 U
94	0 832 281 043	RO-KDL 112 S 62 0 831 210 000 M	RO-DLL 130 S 122 0 833 272 021	⁺⁸ 200	DVT 330
95	0 832 227 000	RO-KDL 78 S 36 0 831 210 003	2G16 - S42-1	⁺⁸ 110	MG-450
96	0 832 281 035	RO-KDL 70 S35 0 831 210 002	2G16 - S42 -1	⁺⁸ 120	Tractor S-80 (Y30-00)
97	0 832 231 000	RO - KDAL 96 S 16/4 0 830 233 006	RO - DLL 35 S 559 0 433 220 130	⁺⁸ 175	D-2156 HMN 8 D-2356 HMN 8
	0 832 231 001	RO - KDAL 96 S 16/4 0 830 233 006	RO - DLL 35 S 562 0 433 220 133	⁺⁸ 175	D-2156 HM 81 U D-2156 HM 85 U
	0 832 231 002	RO - KDAL 96 S 16/4 0 830 233 006	RO - DLL 35 S 560 0 433 220 131	⁺⁸ 175	D-215 6 MTN 8
98	0 832 281 019	RO-KDAL 62 S 18 0 830 233 003	RO - DLL 152 S 19 0 833 272 005	⁺⁸ 240	MTU 8 VSA
99	0 832 281 036	RO-KDAL 101 S 44 0 830 233 004	RO - DLL 140 S 10 R 0 833 272 003 M	⁺⁸ 185	M 836 SR
100	0 832 281 026	RO-KDAL 63 S 24 0 830 233 005	RO - DN0SD 131 0 434 290 003	⁺⁸ 175	MB 836 MB 820
101	0 832 231 011	RO-KDAL 74 S 111 0 830 232 001	RO-DLLA 79 S 104 0 833 271 033	⁺⁸ 200	
	0 832 231 010	RO-KDAL 74 S 111 0 830 232 001	RO-DLLA 150 S 179 0 833 271 054	⁺⁸ 175	
	0 832 231 009	RO-KDAL 74 S 111 0 830 232 001	RO-DLLA 150 S 99 0 833 271 030	⁺⁸ 200	Mercedes (Iran)
	0 832 231 008	RO-KDAL 74 S 111 0 830 232 001	RO-DLLA 150 S 98 0 833 271 029	⁺⁸ 175	
102	0 832 231 019	RO-KDAL 74 S 118 0 830 232 002	RO-DLLA 150 S 99 0 833 271 030	⁺⁵ 200	
	0 832 231 016	RO-KDAL 74 S 118 0 830 232 002	RO-DLLA 150 S 179 0 833 271 054	⁺⁵ 175	
	0 832 231 015	RO-KDAL 74 S 118 0 830 232 002	DLLA 134S 183	⁺⁸ 240	
103	0 832 133 003	RO-KDAL 84 P100 0 830 230 001		⁺⁵ 240	392-L4-DT
	0 832 133 004	RO-KDAL 79 P102 0 830 230 002	RO-DLLA 145 P 161 0 833 171 006	⁺⁵ 250	392-L4 D4 AVL
	0 832 133 005	RO-KDAL 64 P 104 0 830 229 001	RO-DLLA 145 P 161 0 833 171 006	⁺⁵ 240	D 2900

A.1.1. Injectoare cu fixare cu flansa , cu tija scurta normale tip. RO-KB.....S
Injectors with fastening by flange , with short bar normal type RO-KB.....S



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 281 012	RO-KB 36 SD 25 0 831 201 002	RO-DN 15 SD 1R 0 834 250 000	130	KD 35

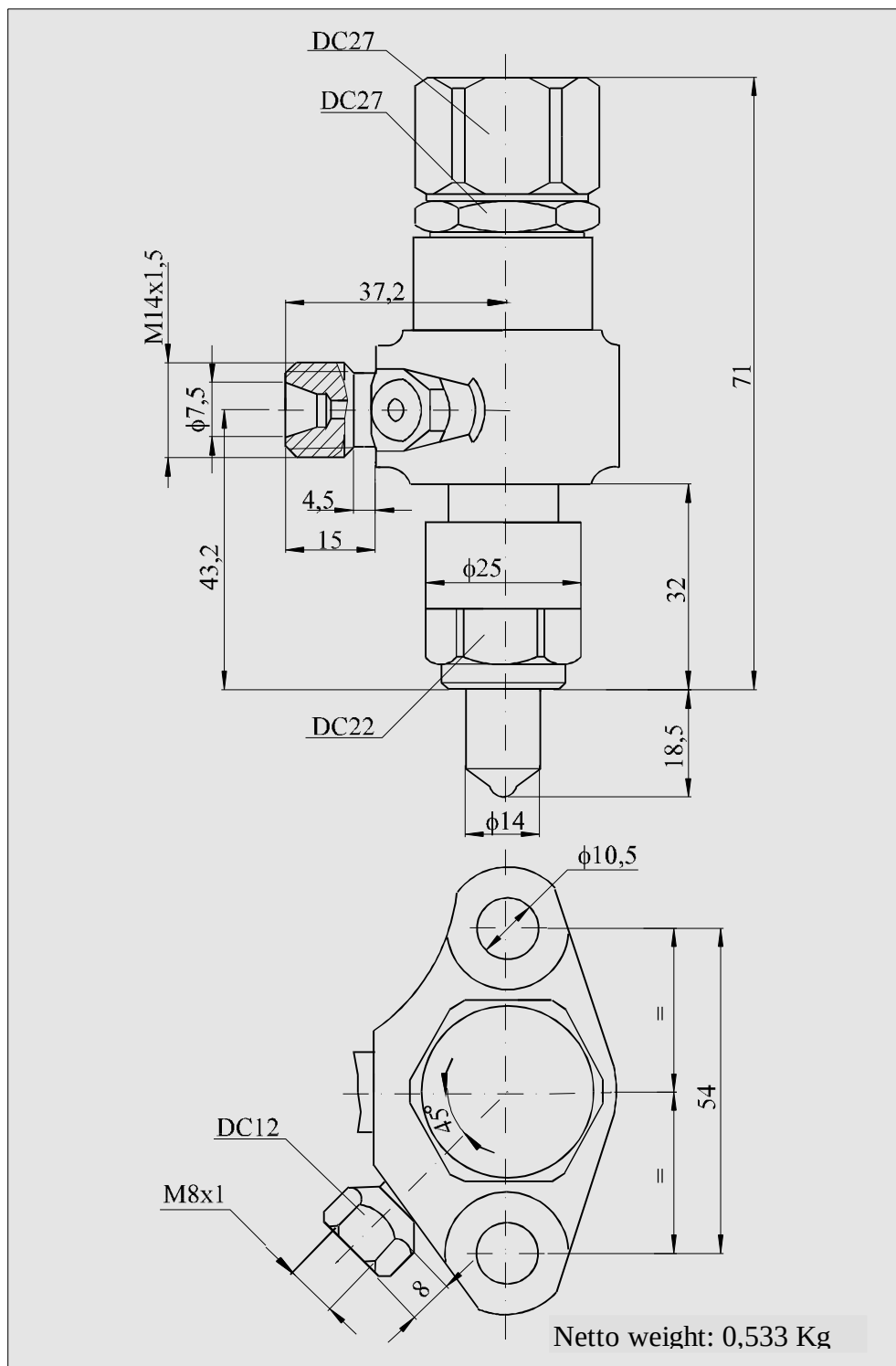
A.1.1. Injectoare cu fixare cu flansa , cu tija scurta normale tip. RO-KB.....S
Injectors with fastening by flange , with short bar normal type RO-KB.....S



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 281 029	RO-KB 52 S 31 0 831 201 001	RO-DN 5 S 85 2G16-S42 - 1	125	D 15

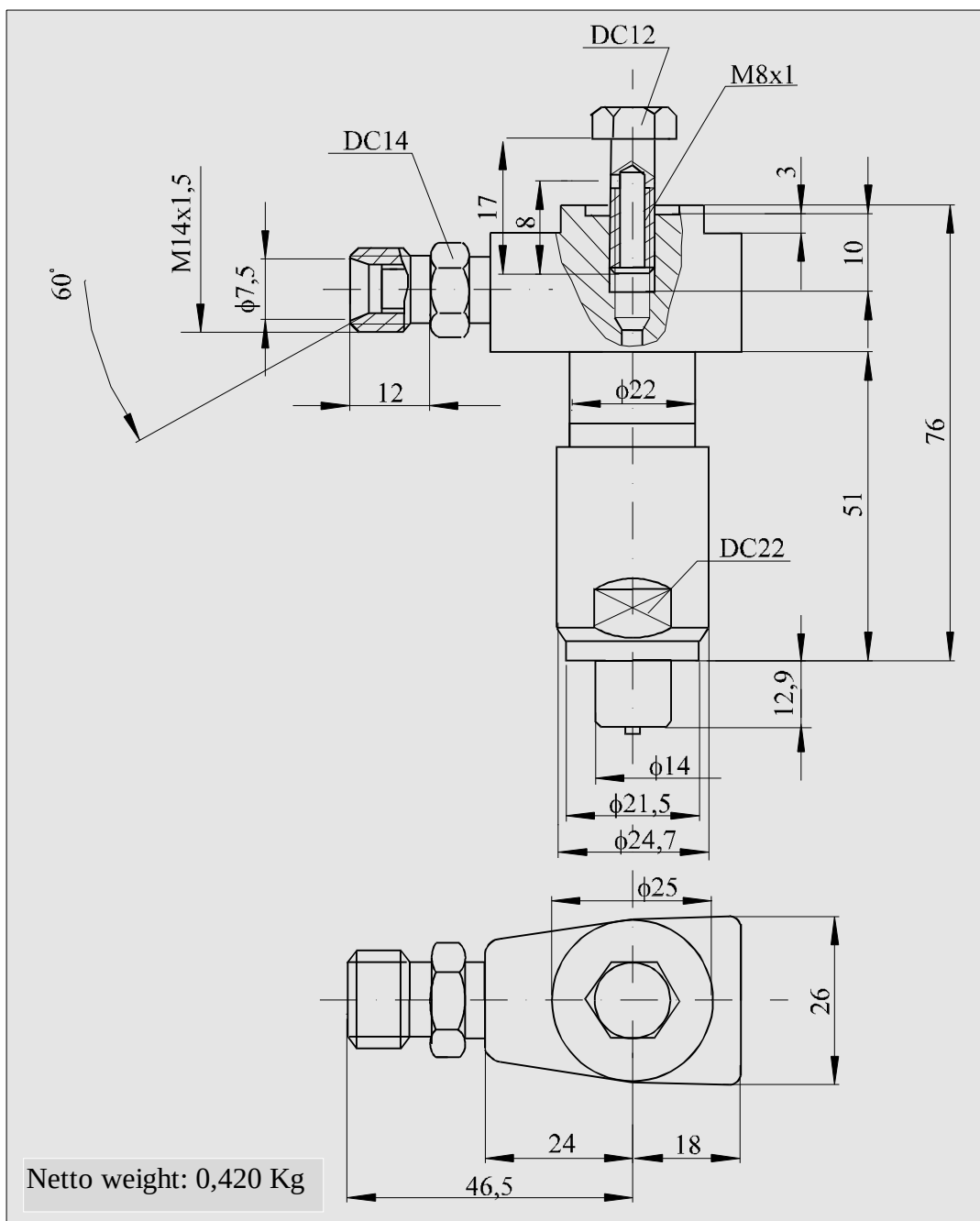
**A.1.1. Injectoare cu fixare cu flansa, cu tija scurta, de marime S, normale, tip. RO - KB...S
pentru familia de motoare M 33.**

*Injectors with fastening by flange, short bar, size S, normal weight, type RO - KBL..S.
for the engines M 33.*



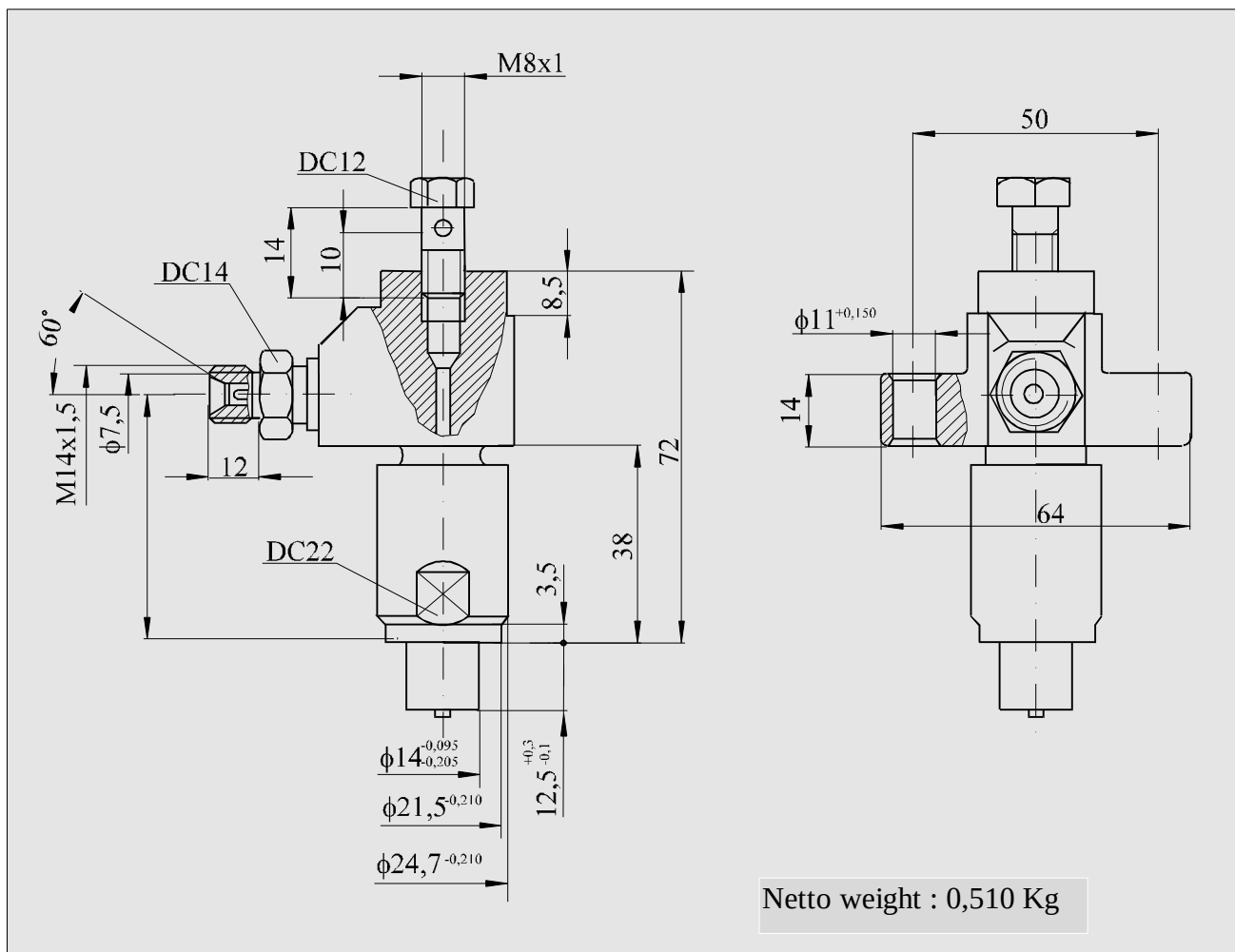
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 280 001	RO-KB32 S 112	RO-DL110 S 177	190	M 33T
	0 831 201 003	0 833 200 009		

A.1.1. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....S
Injectors with fastening by flange , with short bar and weight type RO-KBA.....S



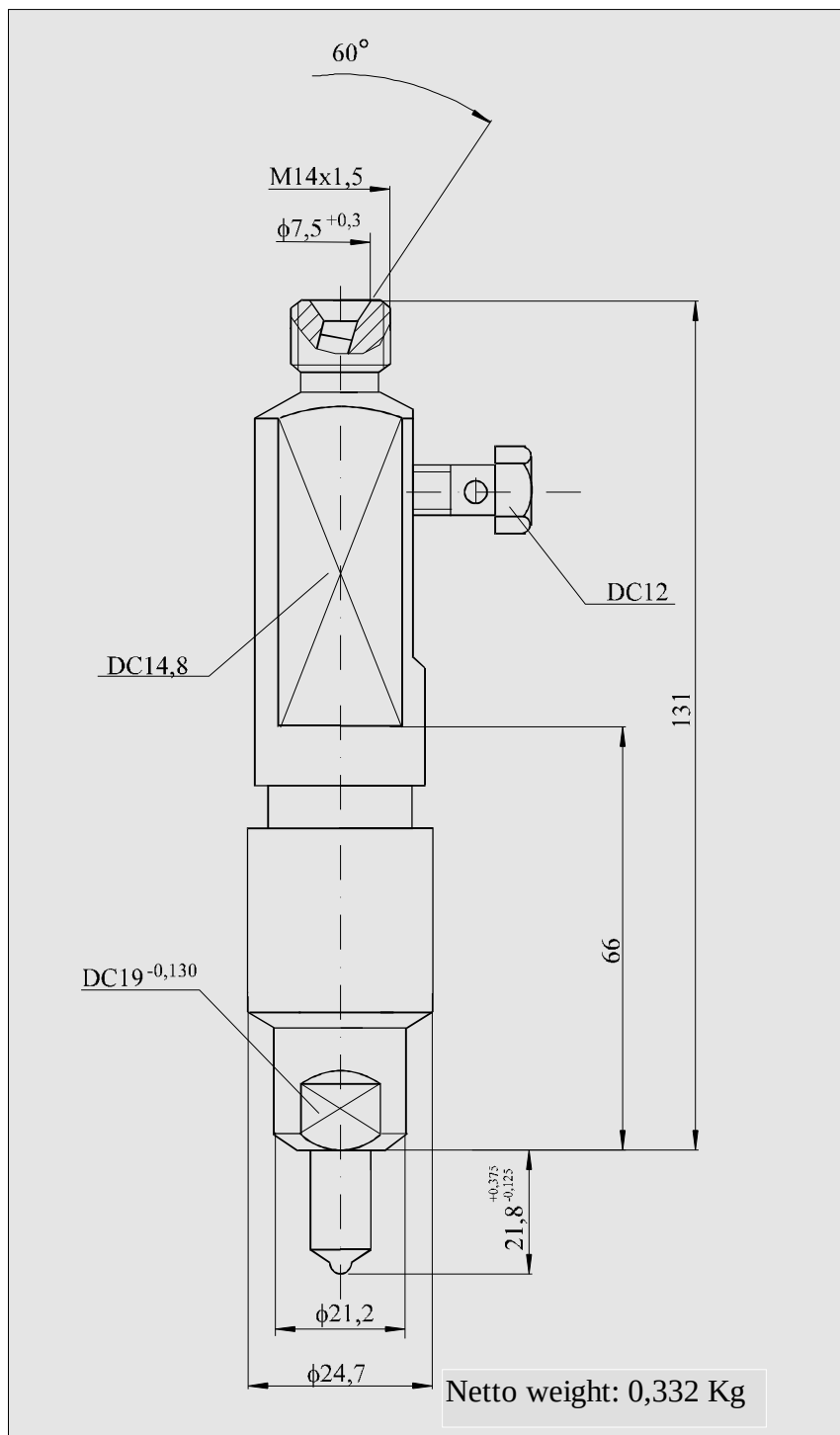
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 296 000	RO-KBA 51 S 38 0 830 212 000	RO-DN 4 S 47 0 834 200 000	130	S 312 C (RAK)

A.1.2. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....S
Injectors with fastening by flange , with short bar and weight type RO-KBA.....S



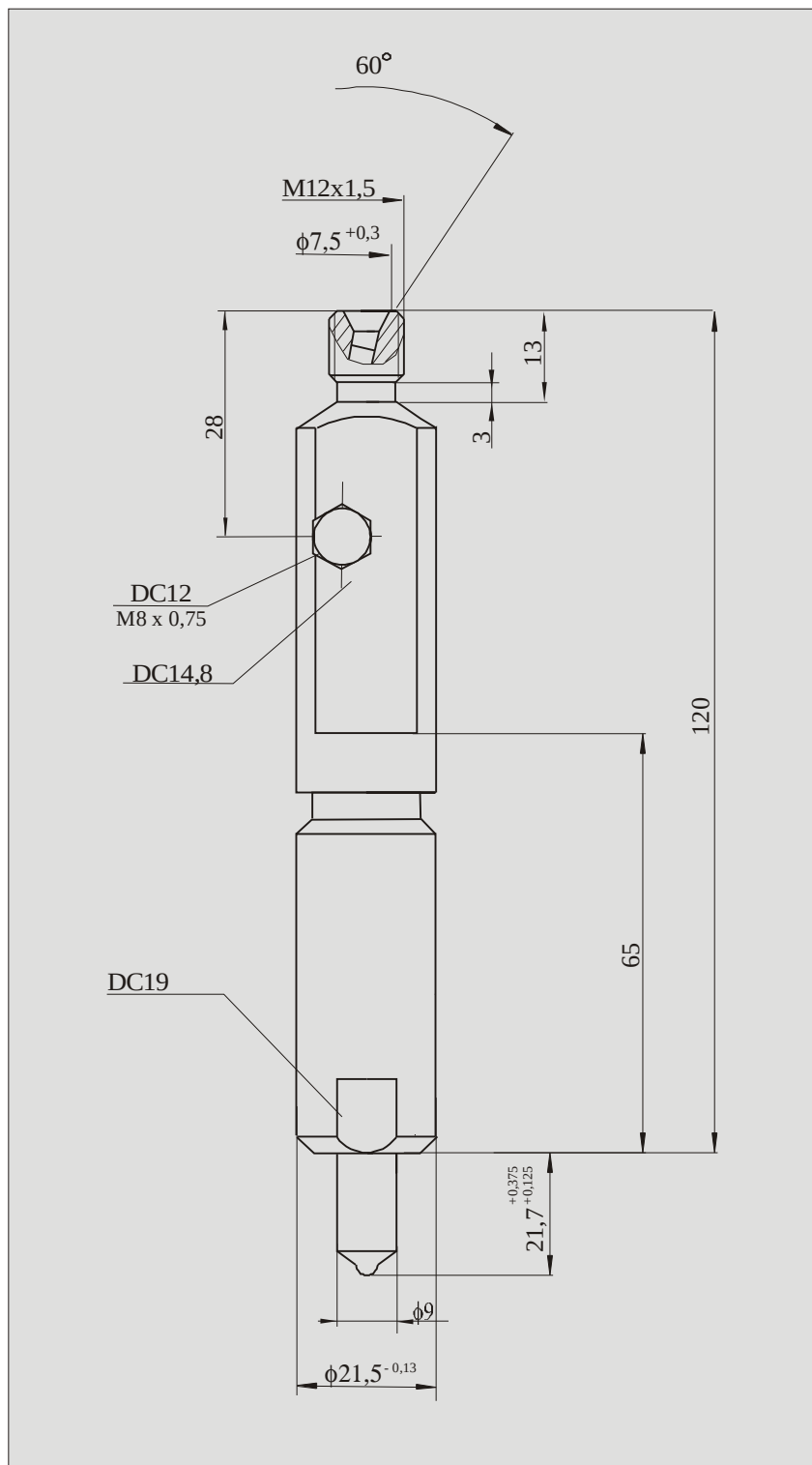
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 296 001	RO-KBA 38 S 63 0 831 211 000	RO-DN 15 SD 1R 0 834 250 000	130	KD 35

A.1.2. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....S
Injectors with fastening by flange , with short bar and weight type RO-KBA.....S



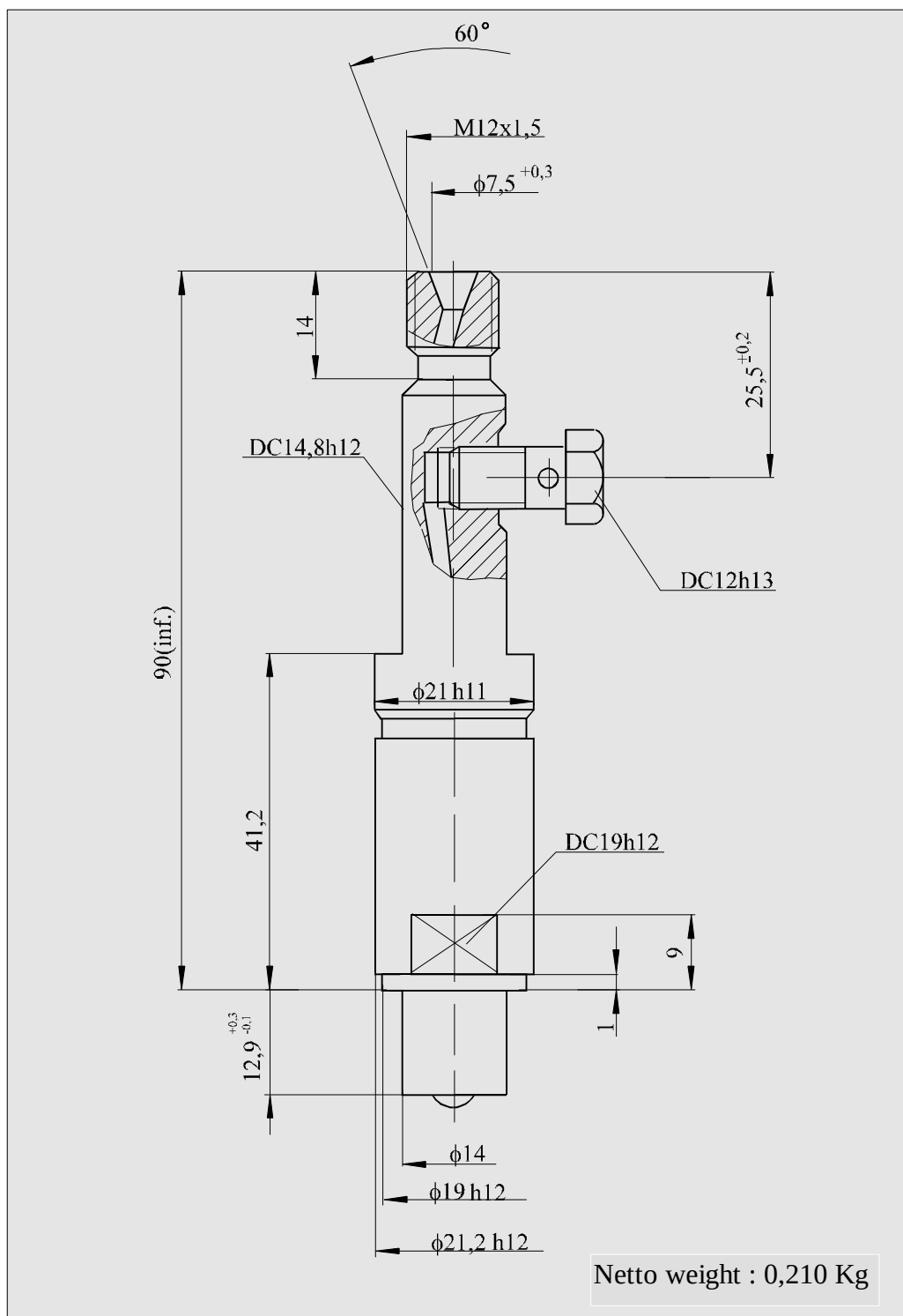
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 291 020	RO-KBA 66 S 99 0 831 212 003	RO-DLLA 149 S119 0 833 271 040	175	DEUTZ

A.1.2. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....S
Injectors with fastening by flange , with short bar and weight type RO-KBA.....S



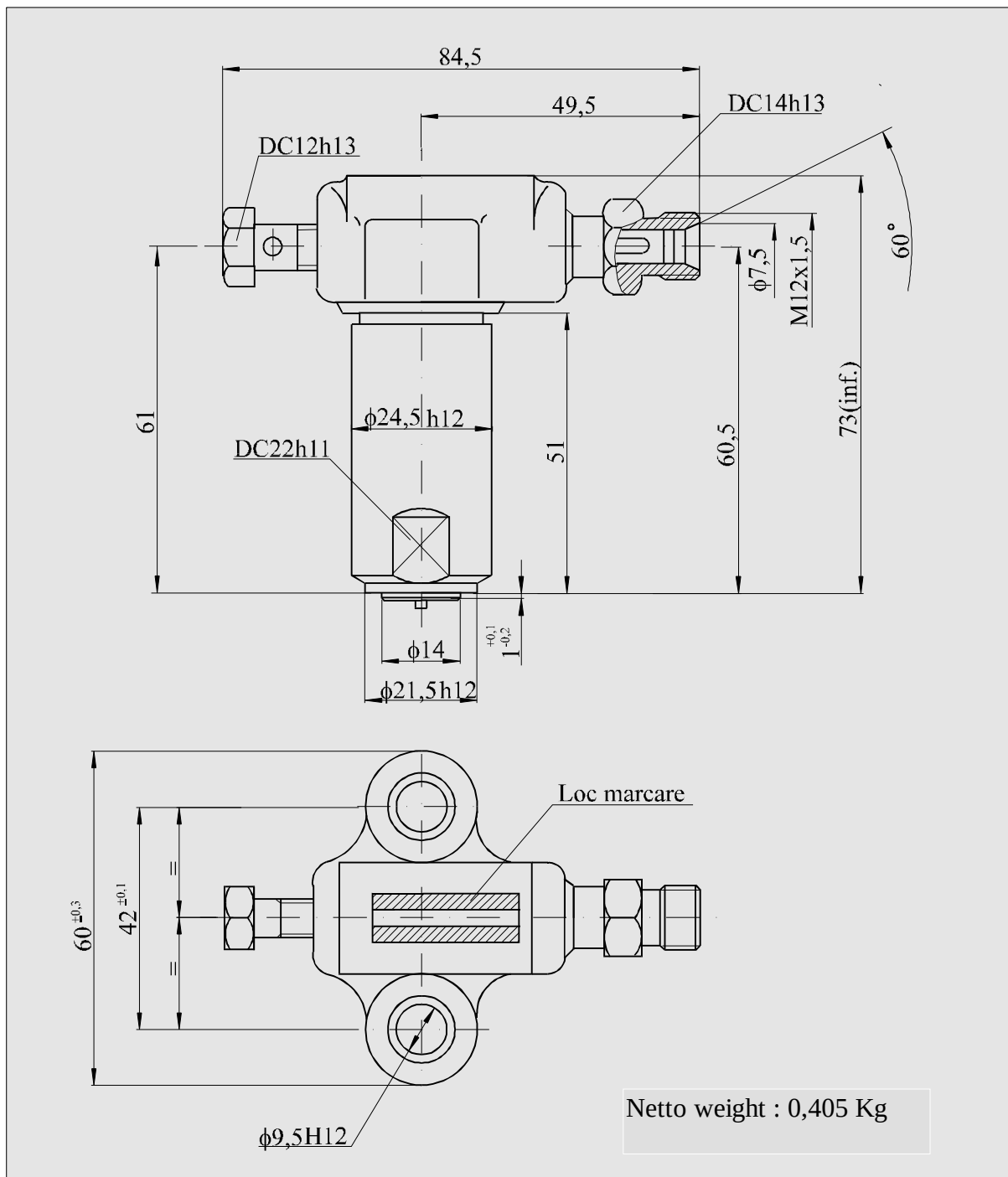
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 296 003	RO-KBA 65 S 124 0 831 212 004	RO-DLL 150S 188 0 833 272 034	175	IRAN

A.1.2.a. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....S
Injectors with fastening by flange , with short bar and weight type RO-KBA.....S



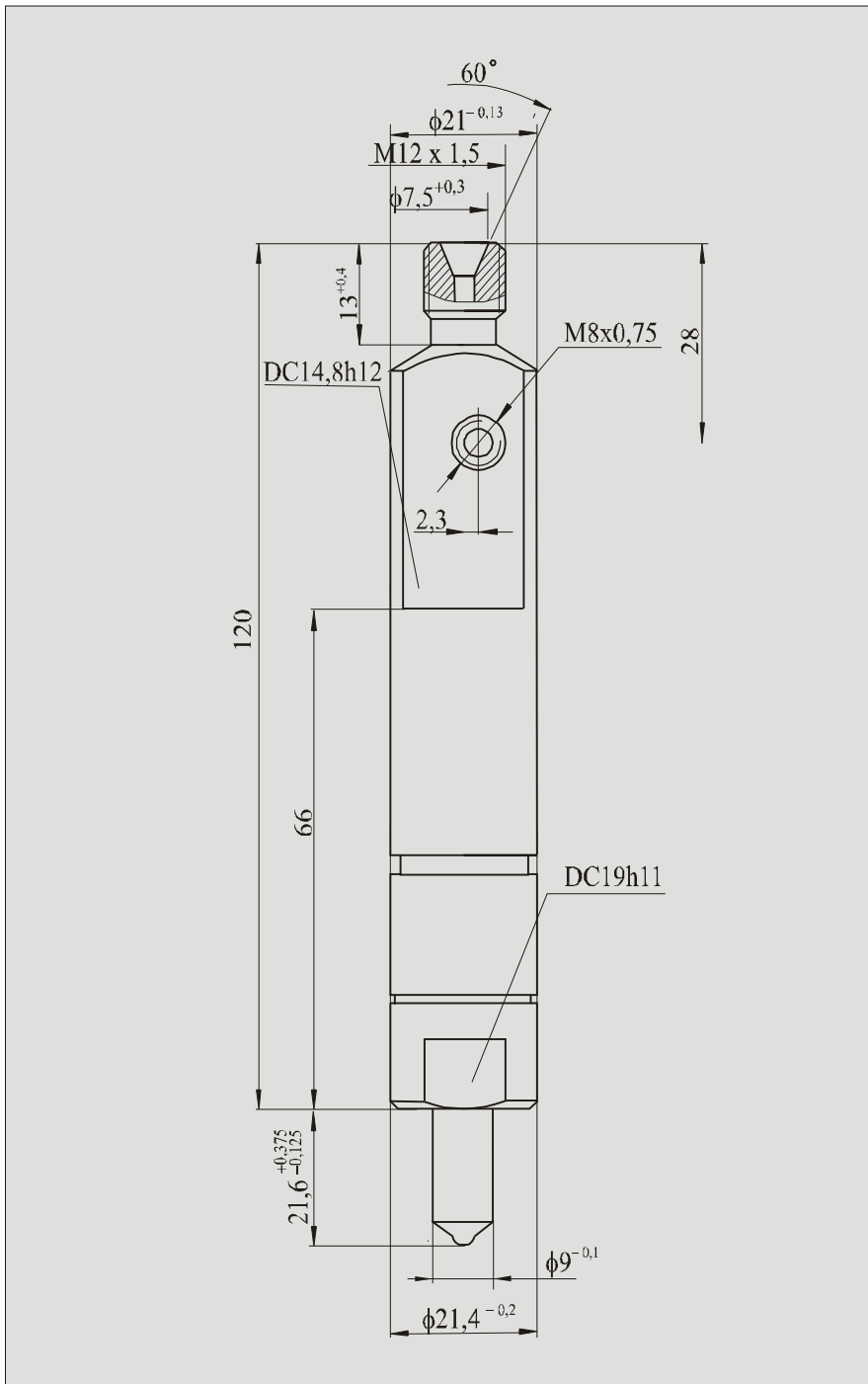
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 297 000	RO-KBA 41 SD 75 0 831 211 001	RO-DNOS 206 0 834 200 008	140	ANDORIA

A.1.3. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....SD
Injectors with fastening by flange , with short bar and weight type RO-KBA.....SD



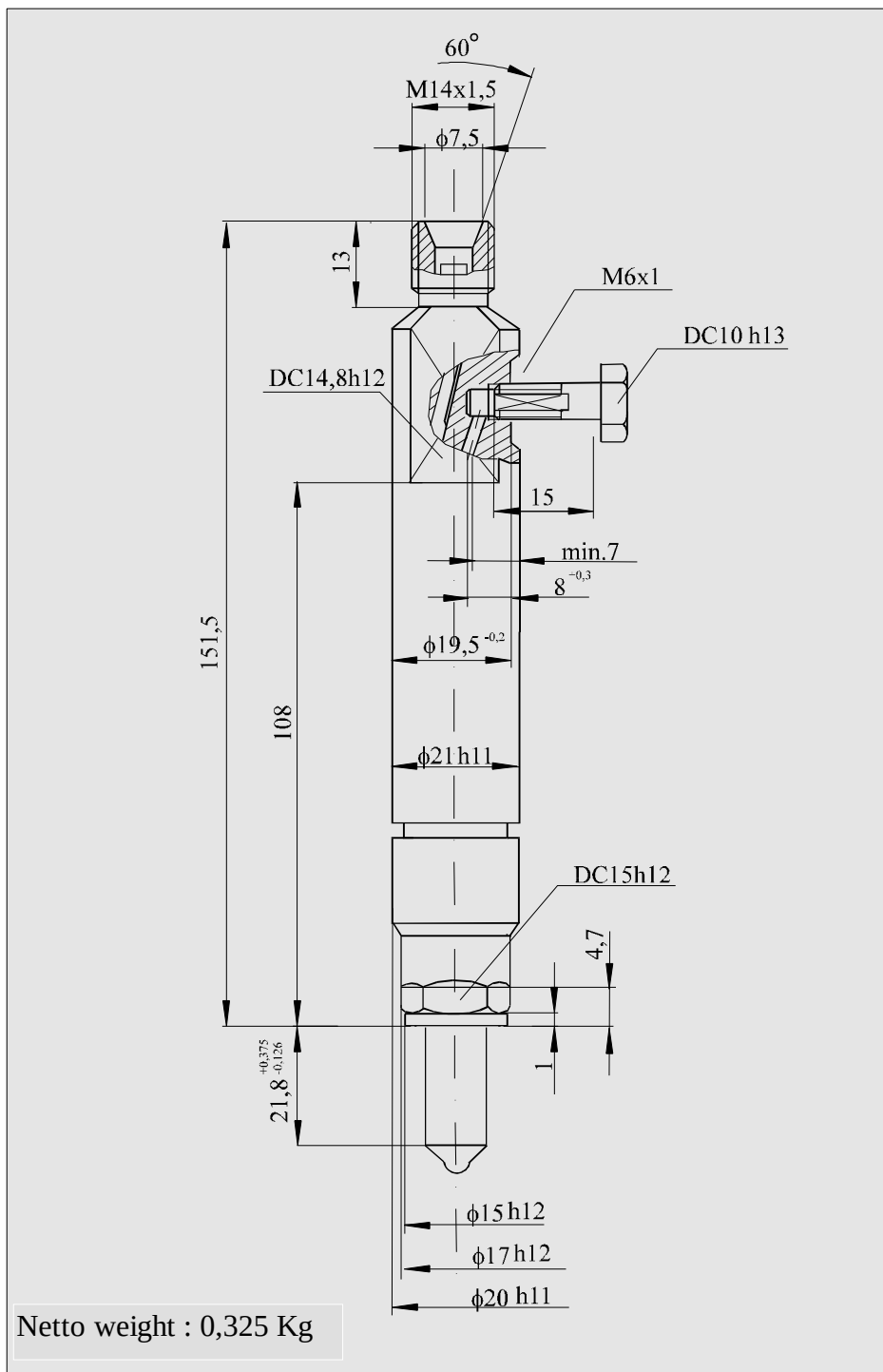
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +5	Main use engines
0 832 296 002	RO-KBA 51 SD 74 0 831 212 001	RO-DN0SD 102 0 834 250 012	110	E 780;E79 E71; E75 HATZ

A.1.4. Injectoare cu fixare cu flansa , cu tija scurta cu masa redusa tip. RO-KBA.....P
Injectors with fastening by flange , with short bar and weight type RO-KBA.....P



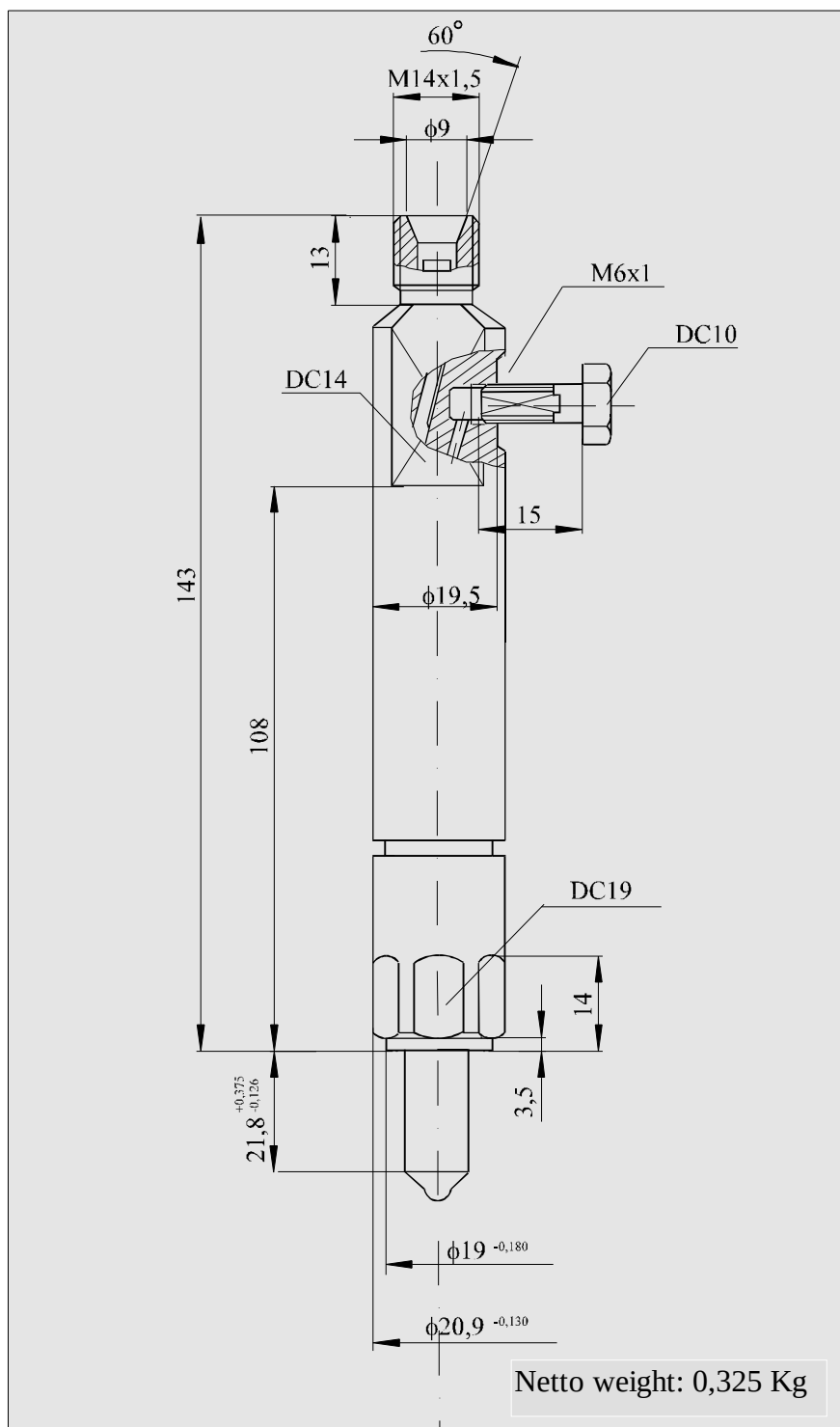
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 291 032	RO-KBA 66P 127 0 831 220 001	RO-DLLA 150S 190 0 833 171 017	210	DT 3900G

A.2.1. Injectoare cu fixare cu flansa , cu tija lunga de marime P tip RO-KBAL.....P
Injectors with fastening by flange , with long bar ,size P, type RO-KBAL.....P



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 291 018	RO-KBAL 108 P 93 0 831 222 001	RO-DLLA147 P 163 0 833 171 008	240	1070 -L6- DT

A.2.1. Injectoare cu fixare cu flansa , cu tija lunga de marime P tip . RO- KBAL....P
Injectors with fastening by flange , with long bar , size P, type RO- KBAL.....P



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 291 002	RO-KBAL 108 P 37	RO-DLLA 150 P44	240	V8-DT
	0 831 213 003	0 833 171 000		1240-V8

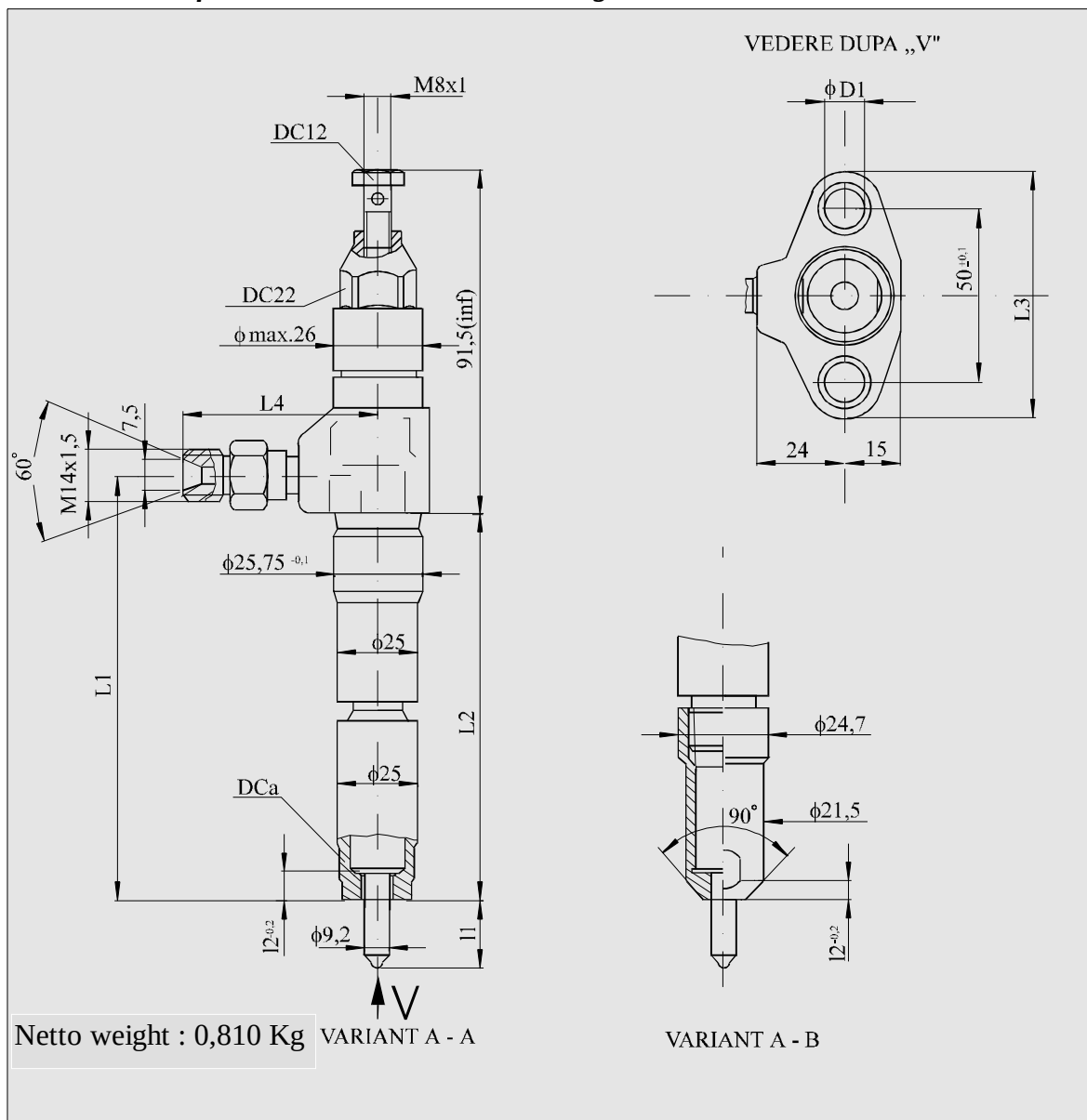
Injectors with fastening by flange , with long bar , size P, type RO- KBAL.....P



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 291 009	RO-KBAL 88 P69 0 831 213 009	RO-DLLA 150 P 162 0 833 171 007	240	550 -L6-DT 550-L6-DTi

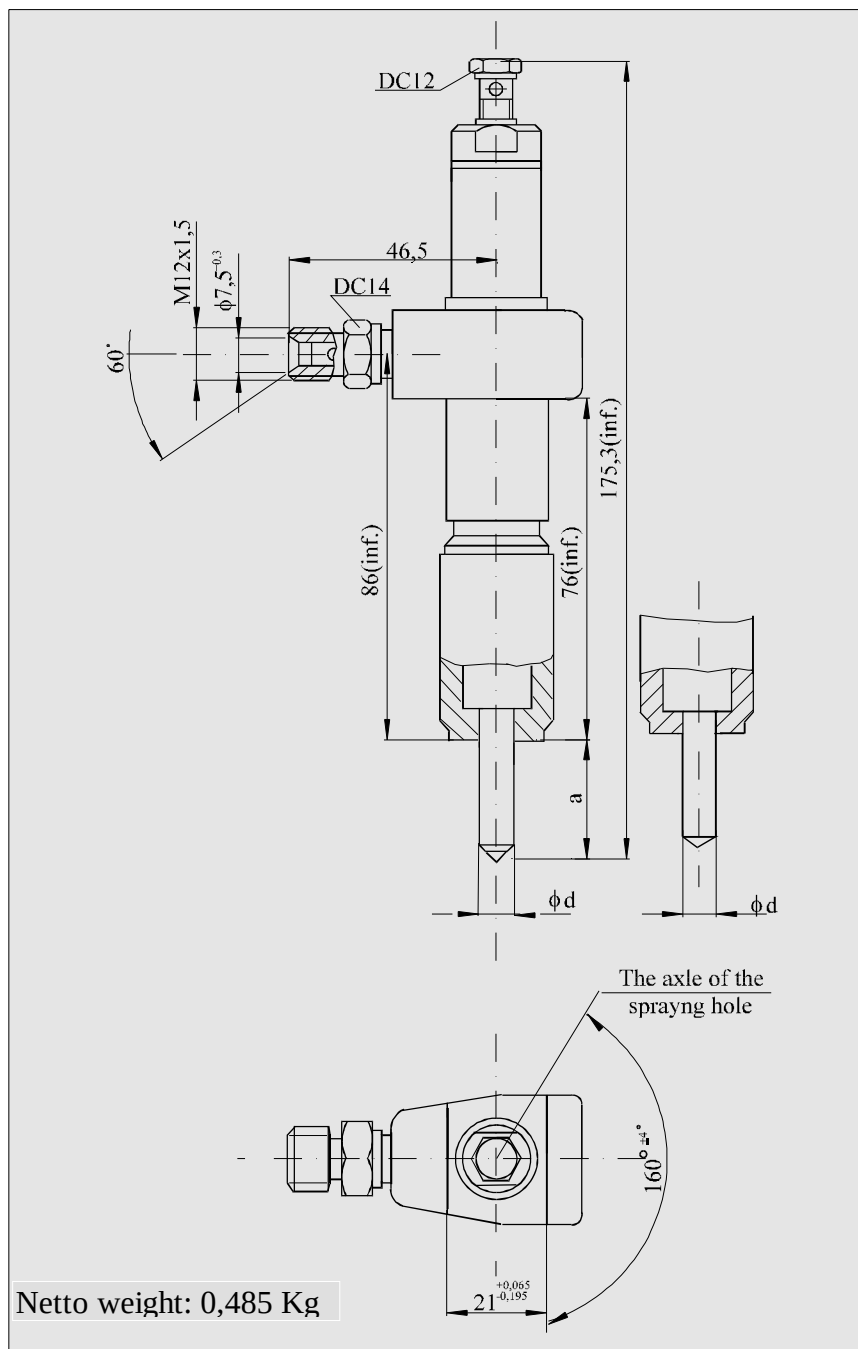
**A.2.2.1.a. Injectoare cu fixare cu flansa cu tija lunga, de marime S normale tip. RO - KBL....S.
pentru familia de motoare D - 110; AVL; SR.**

*Injectors with fastening by flange, with long bar, size S, normal weight, type
RO - KBL..S. for D - 110; AVL; SR - diesel engines*



Symbol	Symbol/Item Injector	Symbol/Item Nozzle	L1 mm	L2 mm	L3 mm	L4 mm	l1 mm	l2 mm	D1 mm	Dca mm	Opening pressure +8	Main use engines
0 832 281 000	RO - KBL 103 S 15 /13 0 831 204 013	RO - DLLA 150 S 720 0 433 271 036	113	103	68,5	58	21,6	6,2	10,5	22	A 175	D 110; D 120
0 832 281 016	RO - KBL 103 S 15 /13 0 831 204 013	RO - DLLA 150 S 720 0 433 271 036	113	103	68,5	58	21,6	6,2	10,5	22	A 200	D 109 B
0 832 281 004	RO - KBL 101 S 5 R 0 831 204 001	RO - DLLA 150 S 7 R 0 833 271 001	111,3	101,3	68	58	20,9	7,5	8,5	19	B 190	D 140; D 118 D 118 050
0 832 281 006	RO - KBL 103 S 6 R 0 831 204 002	RO - DLLA 140 S 10 R 0 833 272 003	113	103	63,5	62,5	22,9	6,2	10,5	22	B 185	M 836 SR spare part

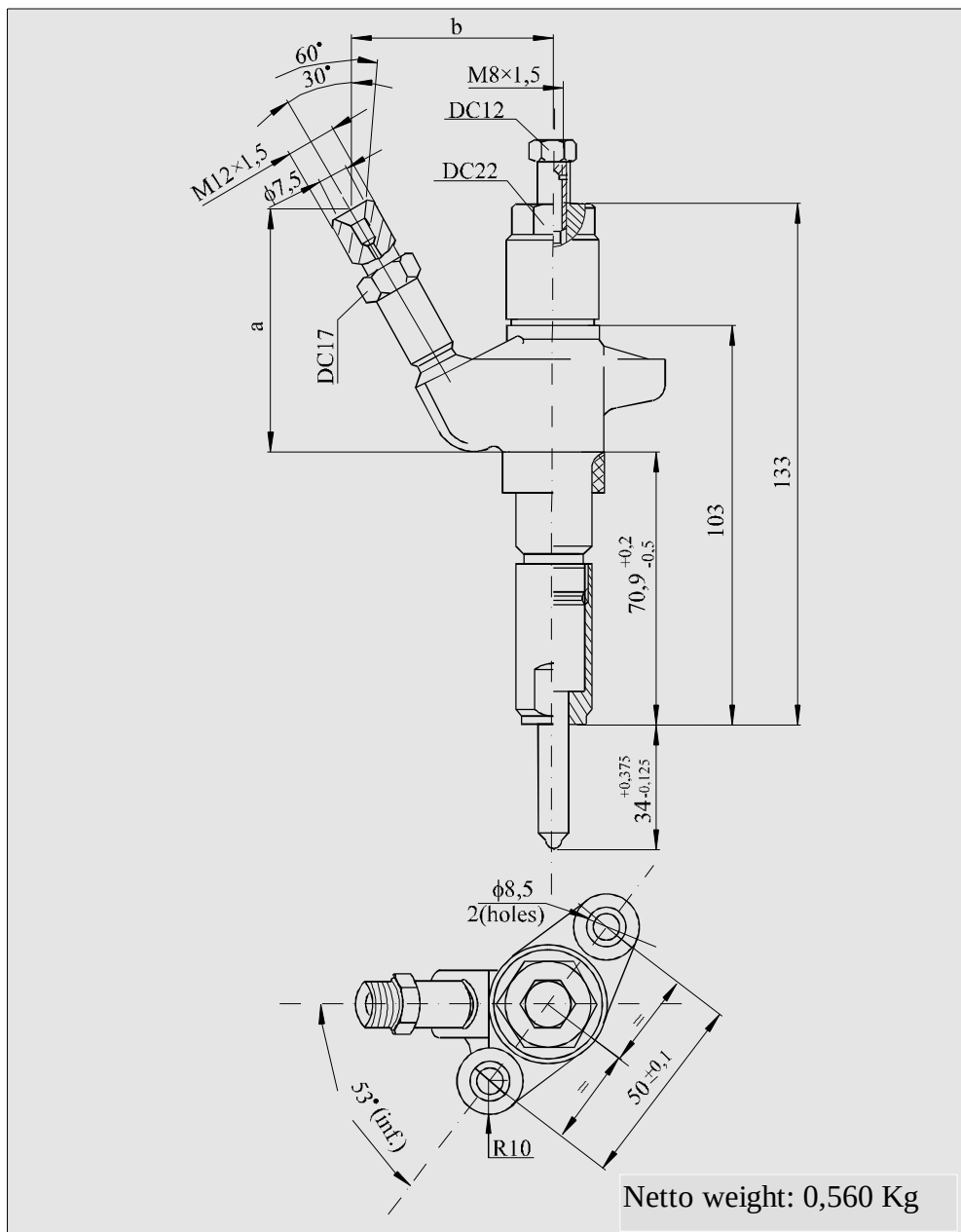
**A.2.2. 1.b. Injectoare cu fixare cu flansa , cu tija lunga de marime S normale
tip. RO-KBL.....S . pentru familia SAVIEM.
Injectors with fastening by flange , with long bar , size S , normal weight,
type RO-KBL.....S. for SAVIEM - diesel engines.**



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
0 832 281 005	RO-KBL 76 S 2R 0 831 204 000	RO-DLLA 25 S 9R 0 833 270 003	190 ⁺⁸	SAVIEM 795-05
0 832 281 018	RO-KBL 76 S 15 0 831 204 007	RO-DLLA 18 S 16 0 833 271 008	220 ⁺⁸	SAVIEM supraalimentat

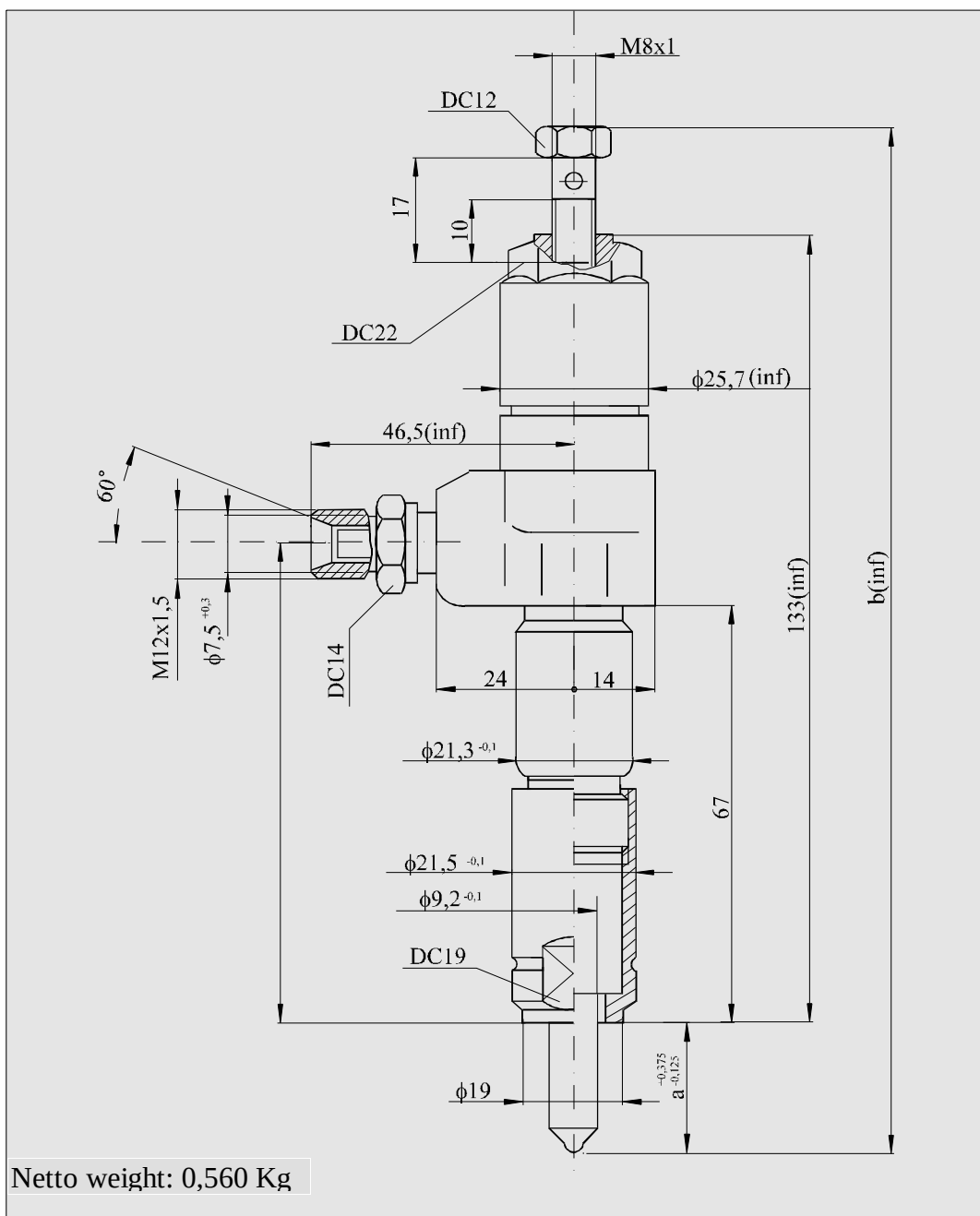
A. 2.2. 1.c. Injectoare cu fixare cu flansa cu tija lunga de marime S normale tip. RO - KBL....S. pentru familia de motoare FIAT.

Injectors with fastening by flange, with long bar, size S, normal weight, type RO - KBL...S. for FIAT - diesel engines.



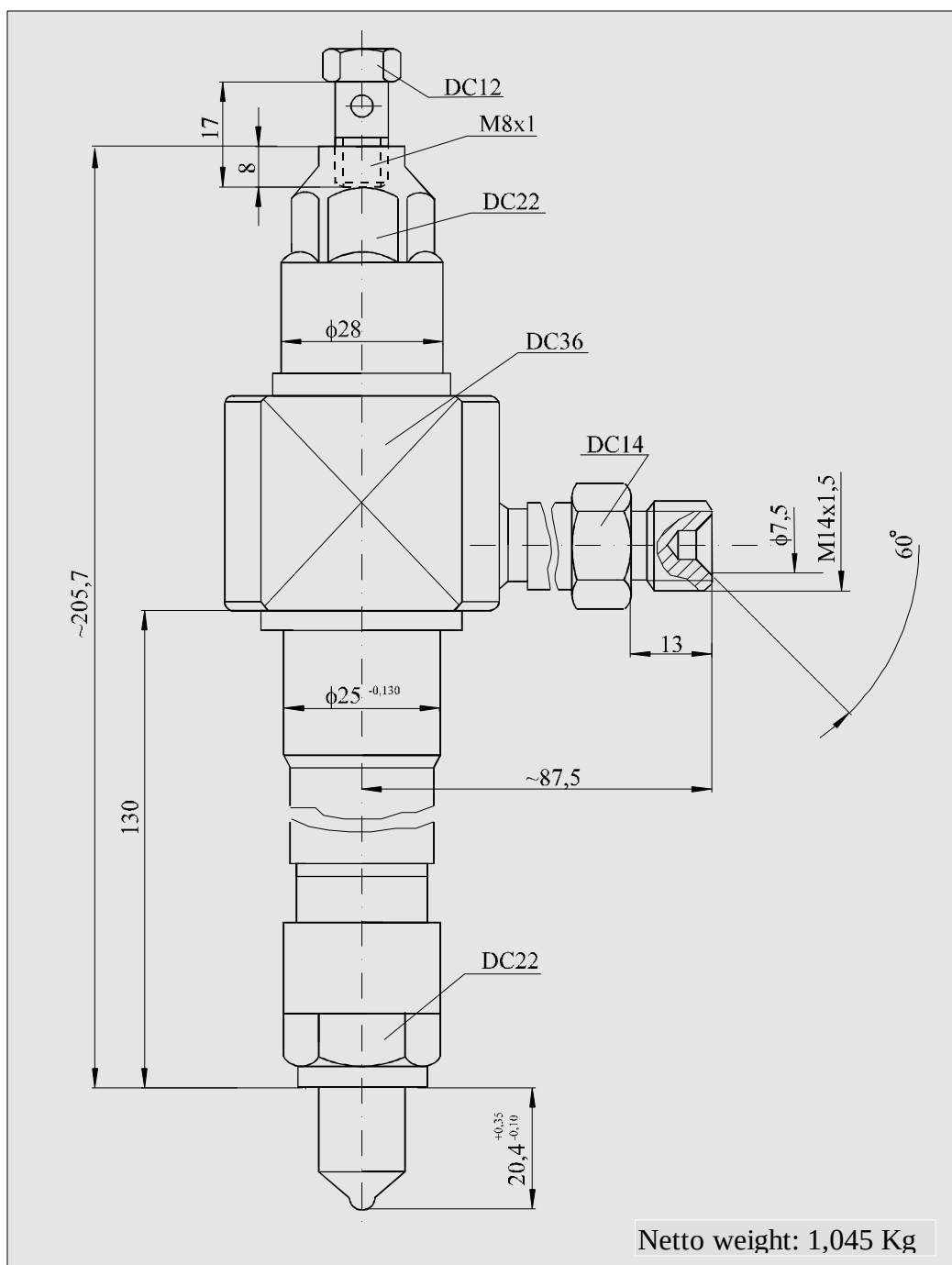
Symbol	Symbol/Item Injector	Symbol/Item Nozzle	a mm	b mm	Opening pressure	Main use engines
0 832 281 024	RO - KBL 70 S 23 0 831 204 011	RO - DLLA 145 S 448 0 433 271 199	42	37	+8 230	D 115 D 127
0 832 281 027	RO - KBL 70 S 23 0 831 204 011	RO - DLLA 141 S 662 0 433 271 325	42	37	+8 230	Fiat with bigger bore D 115050, D 121 050
0 832 281 030	RO - KBL 70 S 23 0 831 204 011	RO - DLLA 160 S 39 0 833 271 017	42	37	+8 200	1 L82 82 D si 1... 4 L95 95 D
0 832 281 033	RO - KBL 70 S 34 0 831 204 015	RO - DLLA 141 S 662 0 433 271 325	61	47	+8 230	D 2601050 ...060
0 832 281 034	RO - KBL 70 S 34 0 831 204 015	RO - DLLA 145 S 448 0 433 271 199	61	47	+8 175	D 2601000, ...910

**A.2.2. 1.d. Injectoare cu fixare cu flansa , cu tija lunga de marime S normale
tip. RO-KBL.....S . pentru familia de motoare PERKINS.
Injectors with fastening by flange , with long bar , size S , normal weight,
type RO-KBL.....S. for PERKINS - diesel engines.**



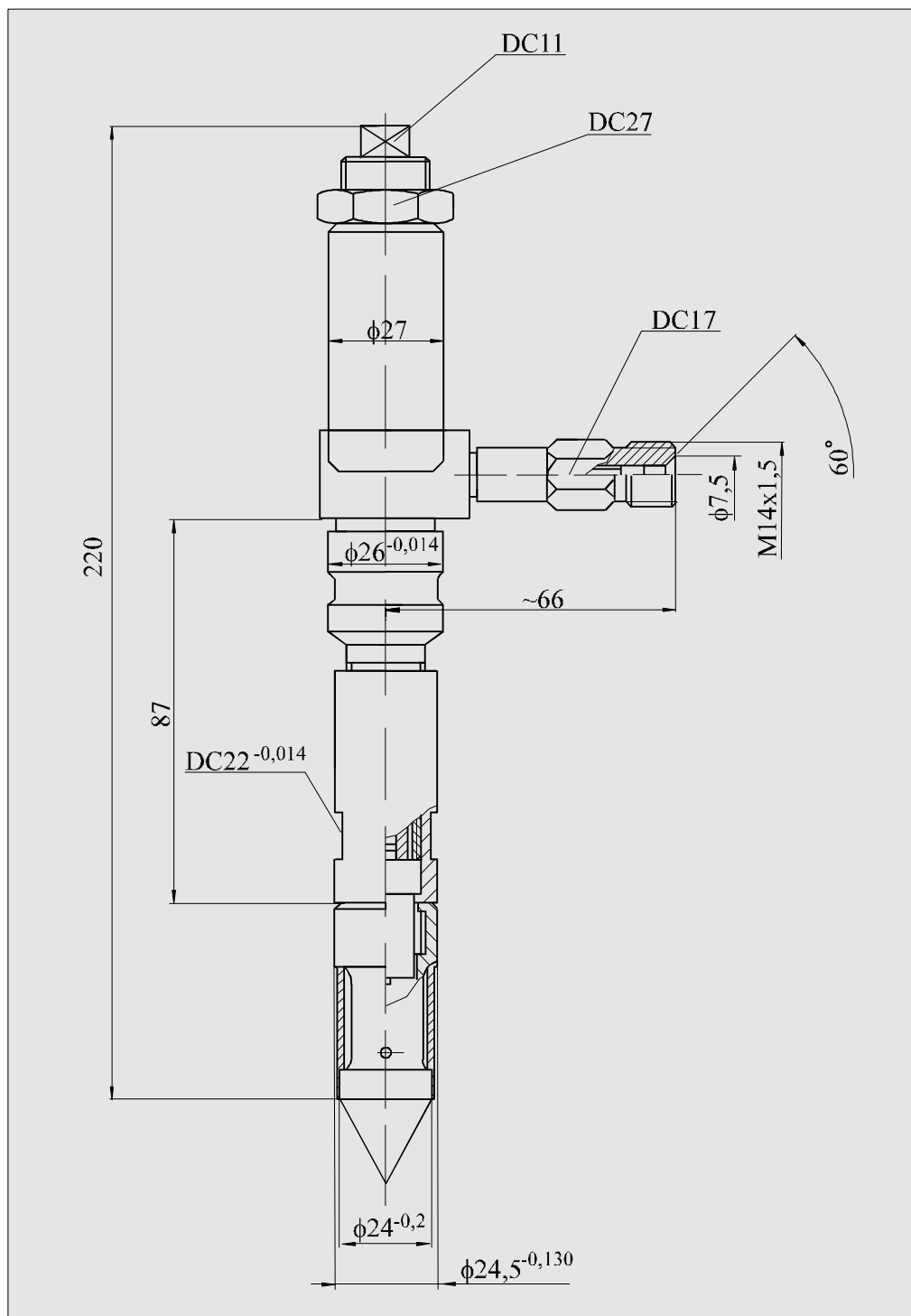
Symbol	Symbol/Item Injector	Symbol/Item Nozzle	a mm	b mm	Opening pressure	Main use engines
0 832 281 031	RO - KBL 67 S 33 0 831 204 014	RO - DLLA 150 S13 R 0 833 271 005	21,1	144	+5 195	Perkins D 3900
0 832 281 032	RO - KBL 67 S 33 0 831 204 014	RO - DLLA 150 S 8 R 0 833 271 002	21,6	144	+5 195	Perkins D3. 152

**A.2.2. 1.e. Injectoare cu fixare cu flansa , cu tija lunga de marime S normale
tip. RO-KBL.....S . pentru familia de motoare NAVALE.
Injectors with fastening by flange , with long bar , size S , normal weight,
type RO-KBL.....S. for NAVAL - diesel engines.**



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 281 028	RO-KBL 130 S 27 0 831 204 012	RO-DL 140 S 22 M 0 833 200 000	210	5 CIN 18 / 22

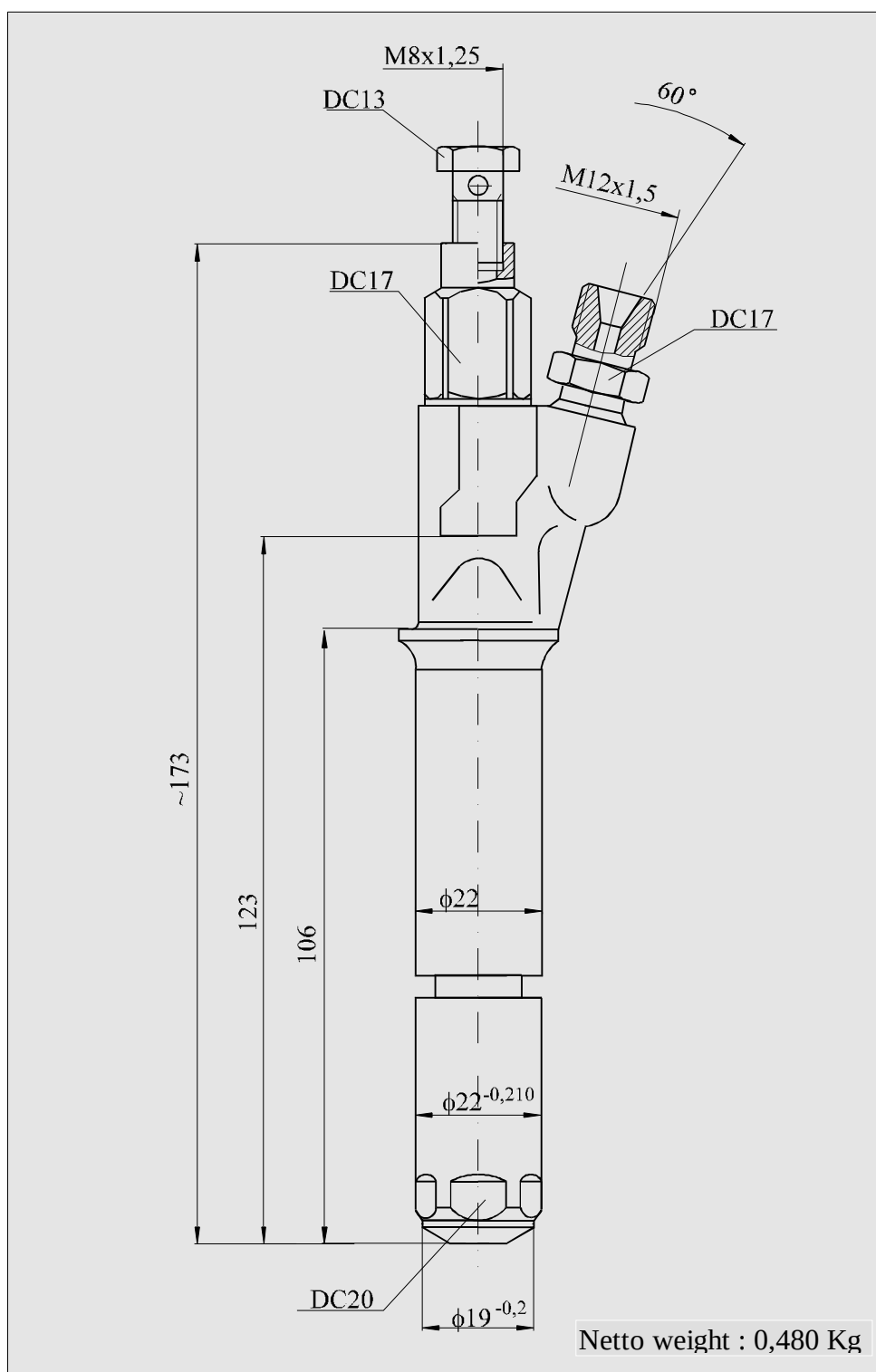
**A.2.2. 1.f. Injectoare cu fixare cu flansa , cu tija lunga de marime S normale
tip. RO-KBL.....S . pentru banc de centricubat.
Injectors with fastening by flange , with long bar , size S , normal weight,
type RO-KBL.....S.**



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 281 052	RO-KBL 100 S 103 0 831 204 023	RO-DN 12 SD 5 E 182 B 681 443 014	210	banc centricubat

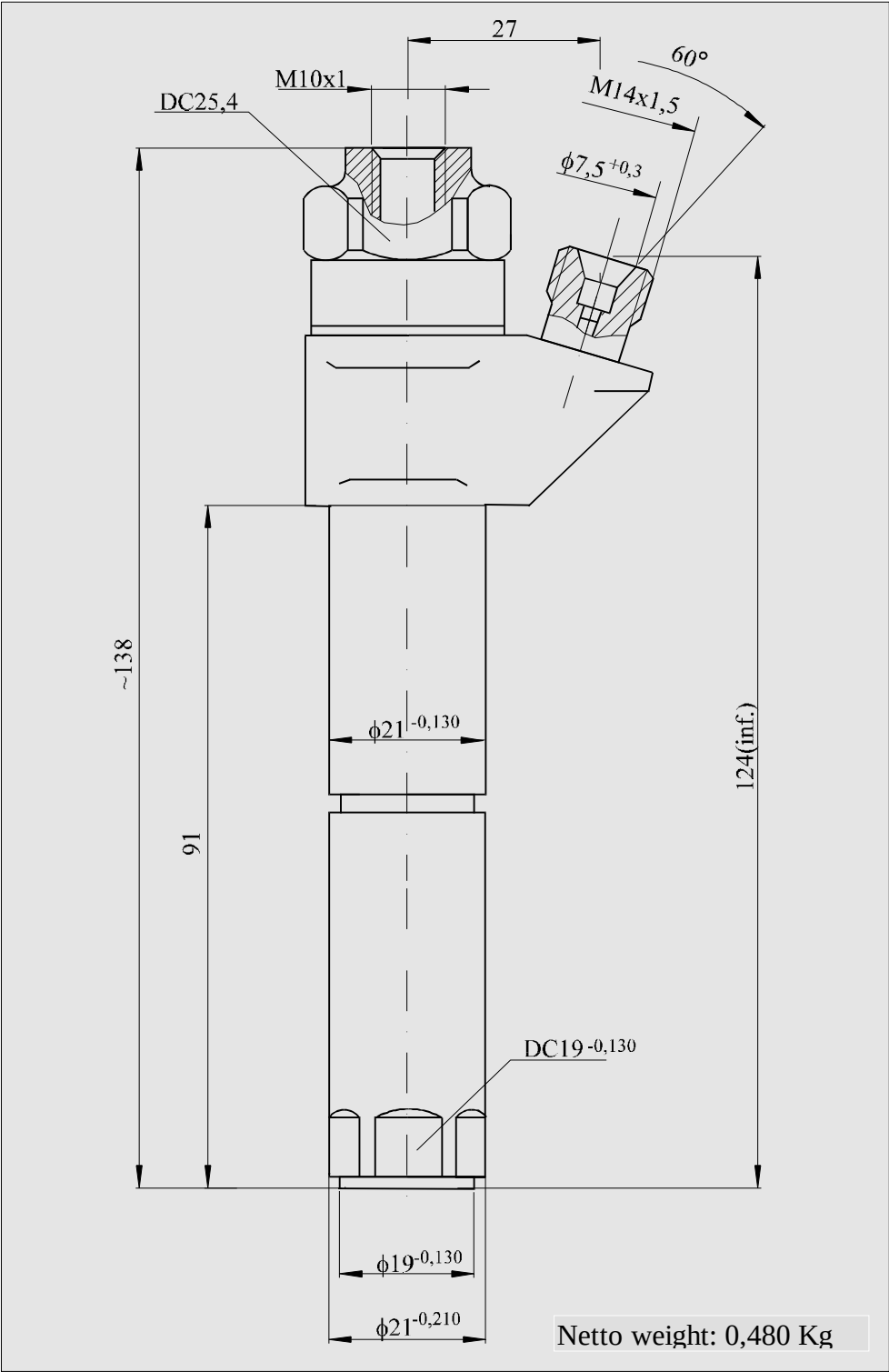
A.2.2. 1.g. Injectoare cu fixare cu flansa , cu tija lunga de marime S fara pulverizator tip. RO-KBL.....S .

Injectors with fastening by flange , with long bar , size S , without nozzle type RO-KBL.....S.



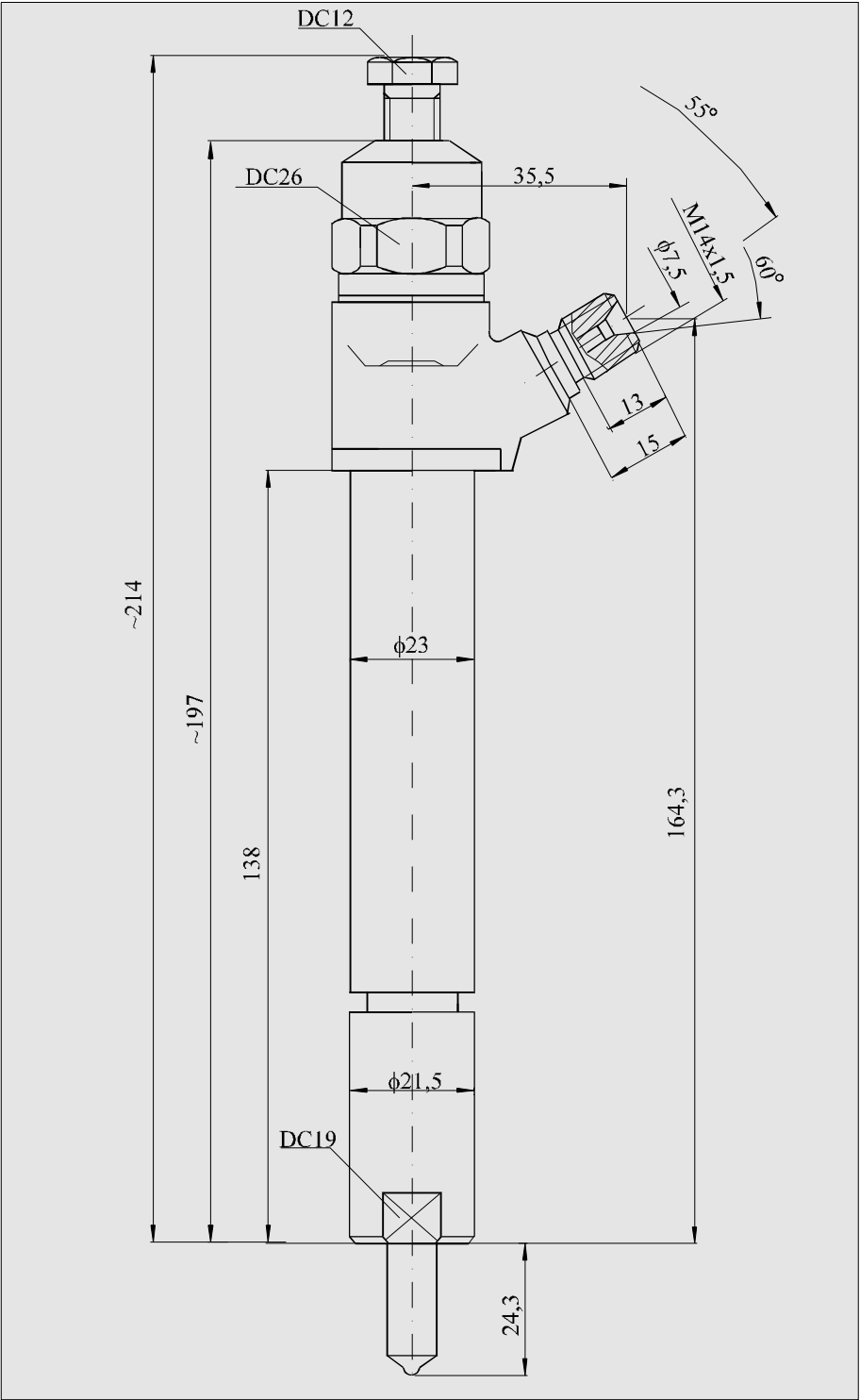
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
	RO-KBL 106 S 86 0 831 204 021			ITALIA piese schimb

A.2.2. 1.g. Injectoare cu fixare cu flansa , cu tija kunga de marime S normale fara pulverizator tip. RO-KB.....S .
Injectors with fastening by flange , with long bar , size S , normal weight without nozzle type RO-KB.....S.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
	RO-KB 91 S 90 0 831 203 001			ITALIA piese schimb

A.2.2.1.h. Injectoare cu fixare cu flansa, cu tija lunga, de marime S, normale tip RO - KBL...S.
Injectors with fastening by flange, with long bar, size S, normal weight, type
RO - KBL..S.



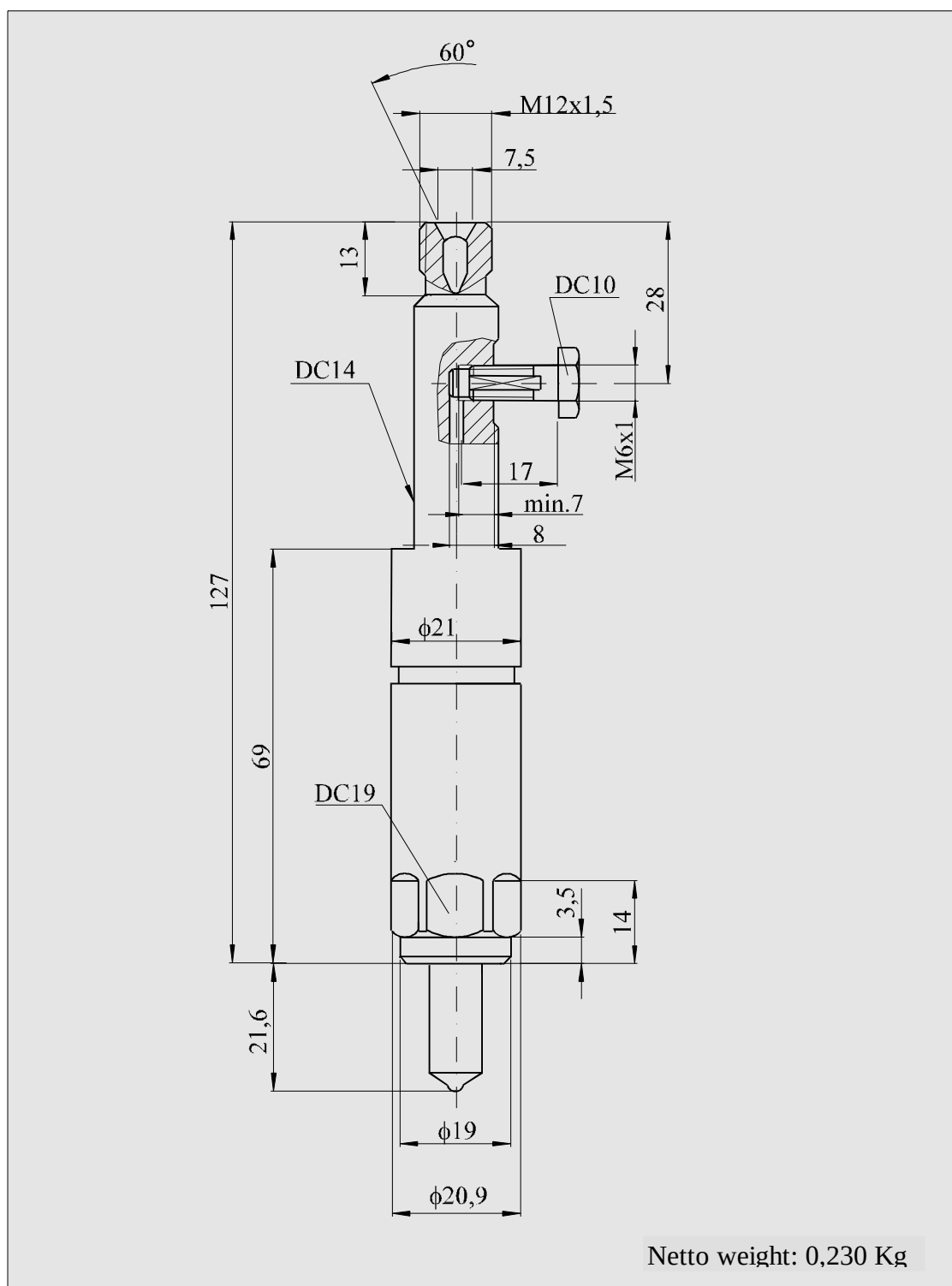
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 281 049	RO-KBL138 S 87 0 831 205 022	RO-DLLA 144 S 58 0 833 271 019	190	SPANIA

Injectors with fastening by flange, with long bar, size S, normal weight, type RO - KBL...S...



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 280 000	RO-KBL 112 S 81 0 831 204 019	RO-DL 120 S 144 0 833 200 008	210	D - 160

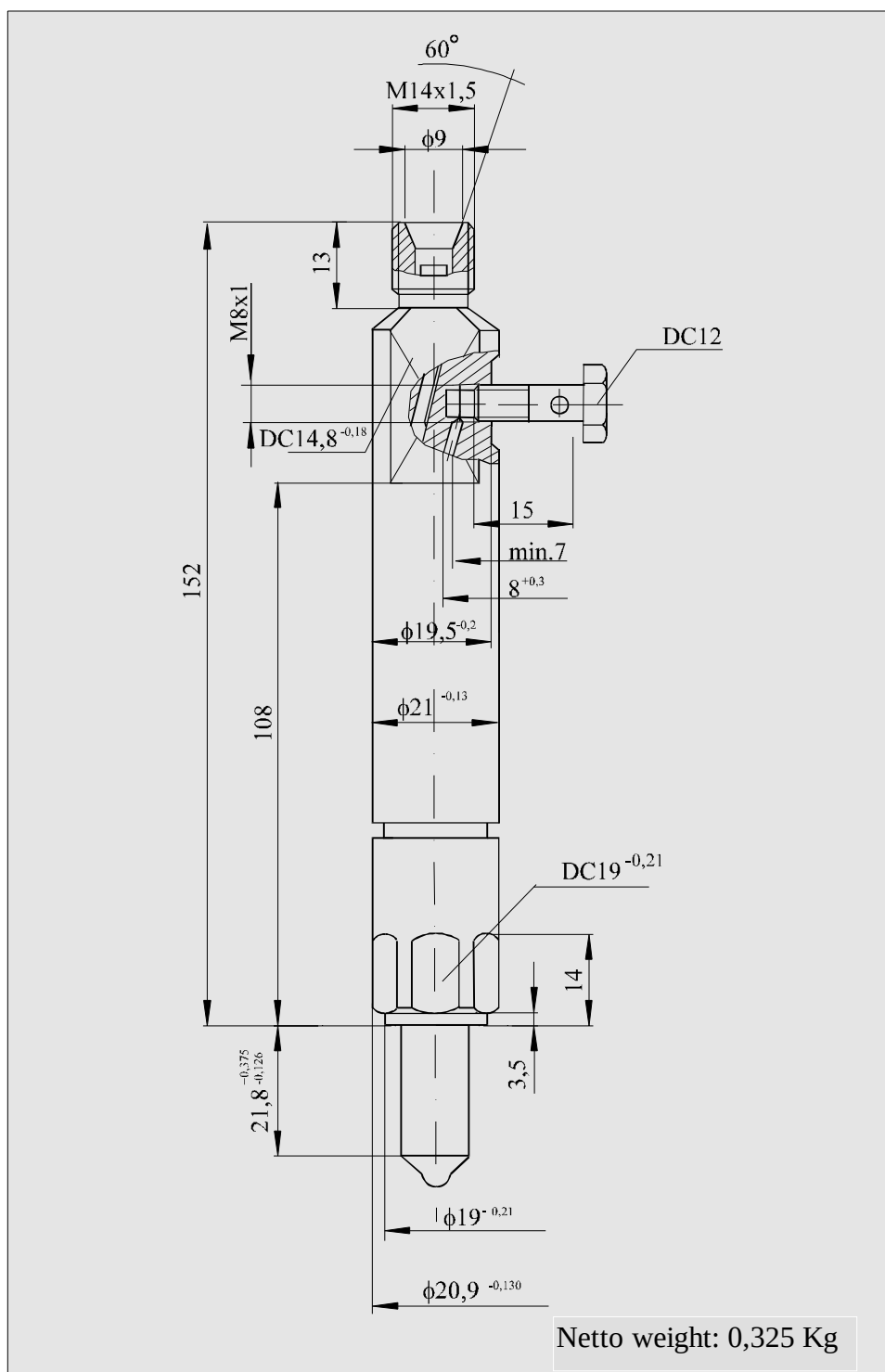
A.2.2.2. Injectoare cu fixare cu flansa, cu tija lunga, de marimeS, cu masa redusa, tip RO - KBAL...S.
Injectors with fastening by flange, with long bar, size S, leight weight, type RO - KBAL..S...



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 291 008	RO-KBAL 69 S 68 0 831 213 008	RO-DLLA 160 S 95 0 833 271 028	215	AS 30

A.2.2. 2. Injectoare cu fixare cu flansa , cu tija lunga de marime S cu masa redusa tip. RO-KBAL.....S .

Injectors with fastening by flange , with long bar , size S , leight weight, type RO-KBAL.....S.



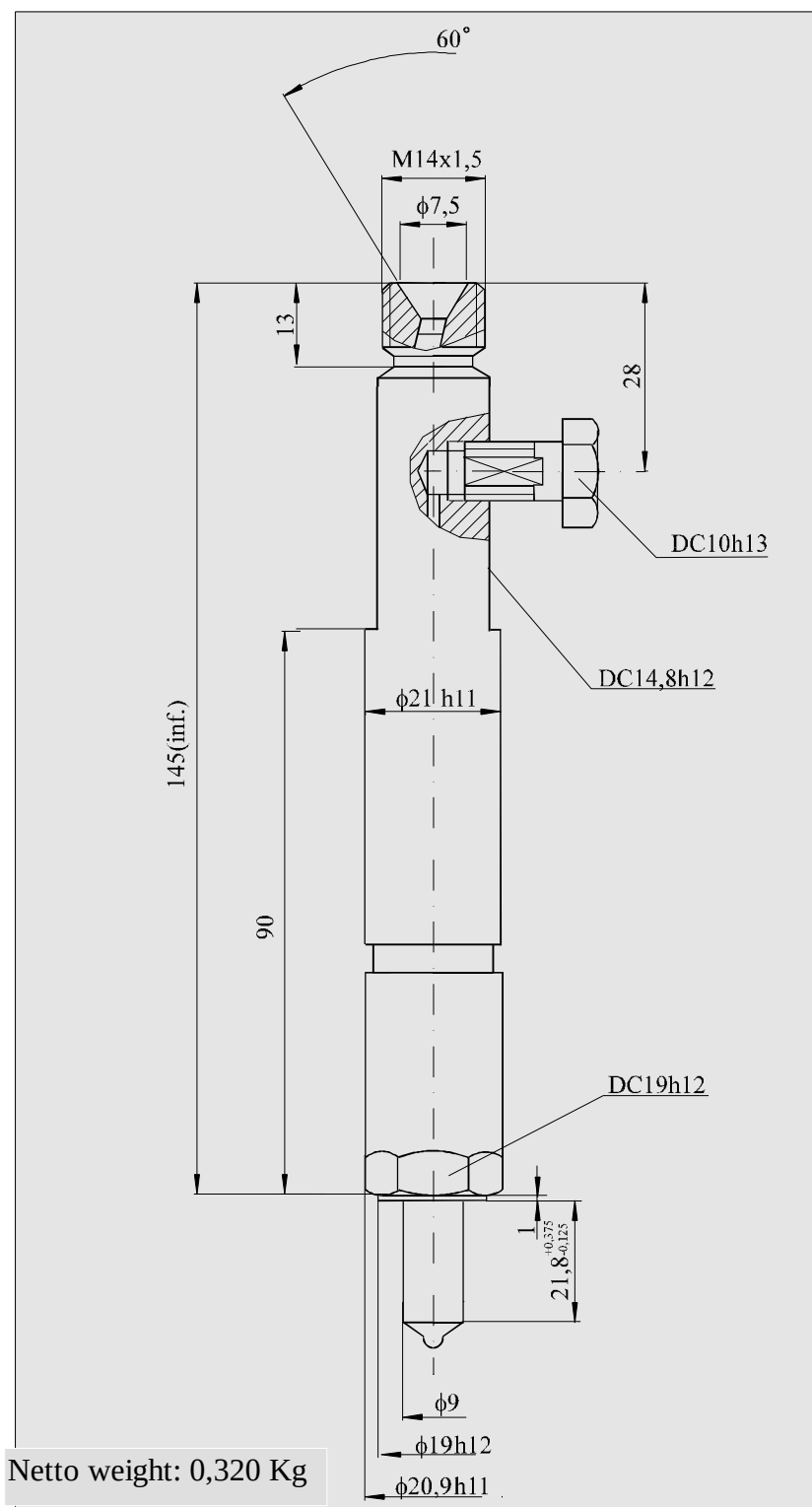
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 291 003	RO-KBAL 108 S 39	RO-DLLA 150 S 36	240	1240 V8...
	0 831 213 004	0 833 271 013		V8 DT

Injectors with fastening by flange , with long bar , size S , leight weight, type RO-KBAL.....S.

34

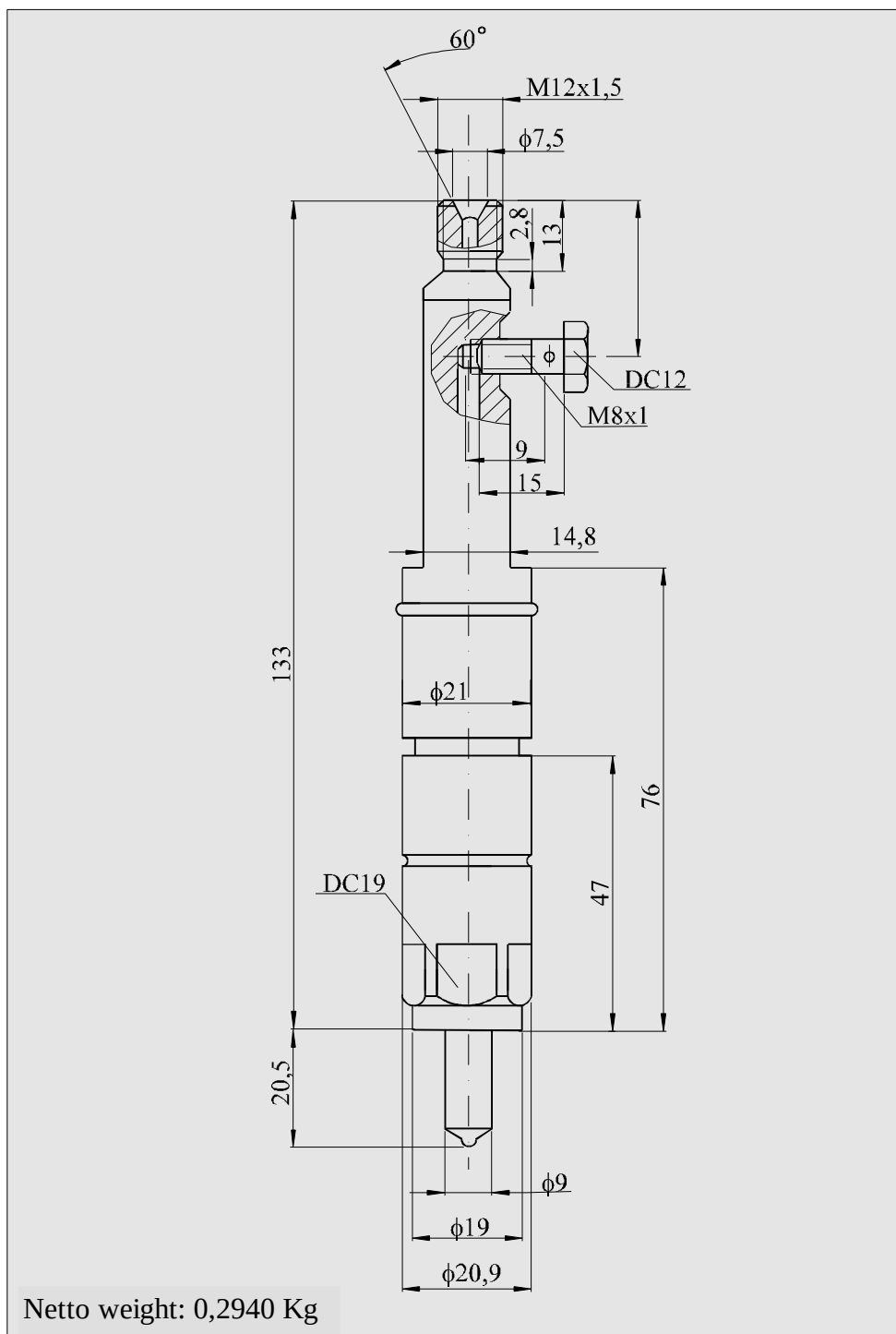
A.2.2.2. Injectoare cu fixare cu flansa , cu tija lunga de marime S cu masa redusa tip. RO-KBAL.....S .

Injectors with fastening by flange , with long bar , size S , leight weight, type RO-KBAL.....S.



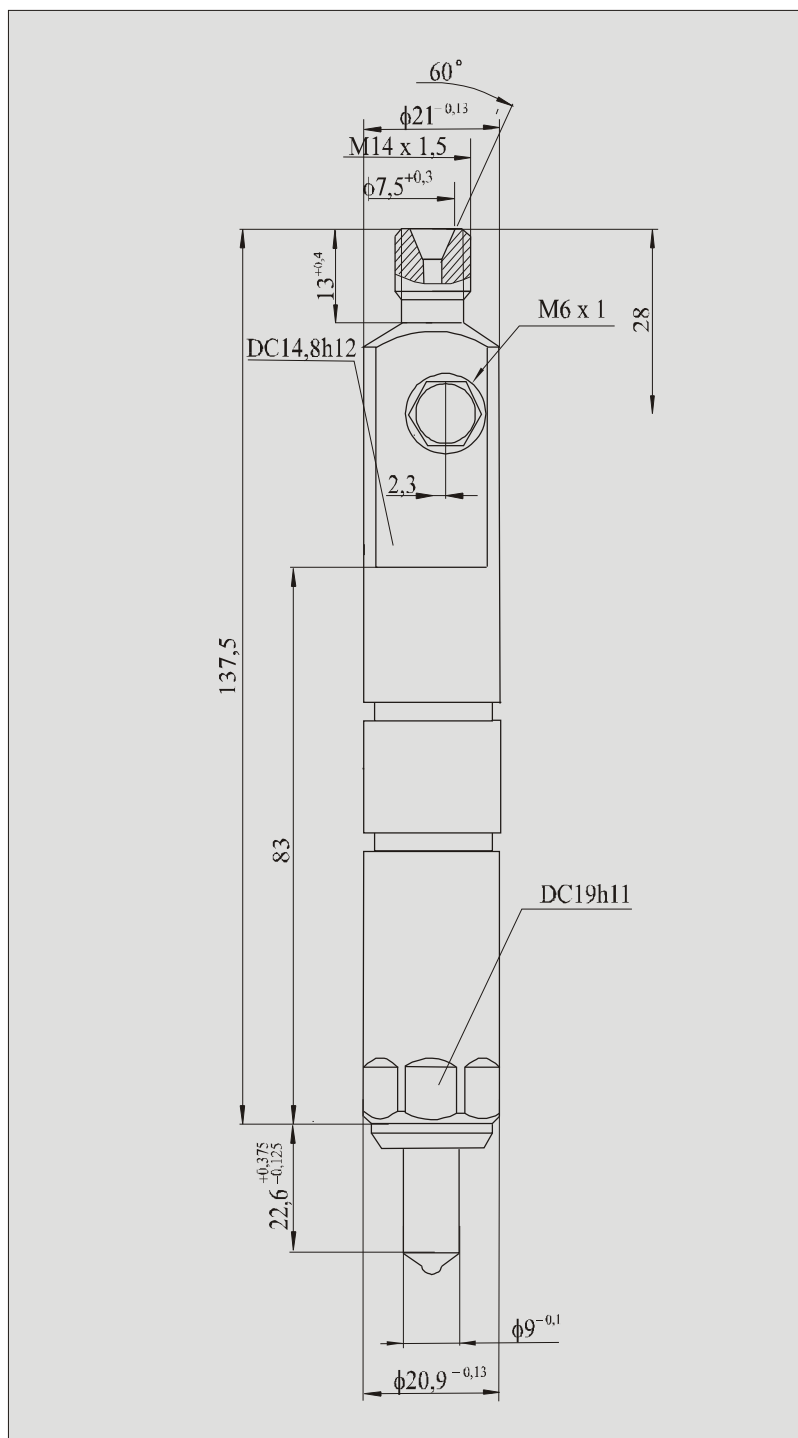
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +5	Main use engines
0 832 291 013	RO-KBAL 90 S71	RO-DLLA 160 S 100	250	3 M 40 ,4 M40
	0 831 213 011	0 833 271 031		3 M 31 ,4 M 31
				HATZ

A.2.2.2. Injectoare cu fixare cu flansa, cu tija lunga, cu masa redusa, de marime S, tip. RO - KBAL...S.
Injectors with fastening by flange, with long bar , size S, leight weight, type RO - KBAL....S.



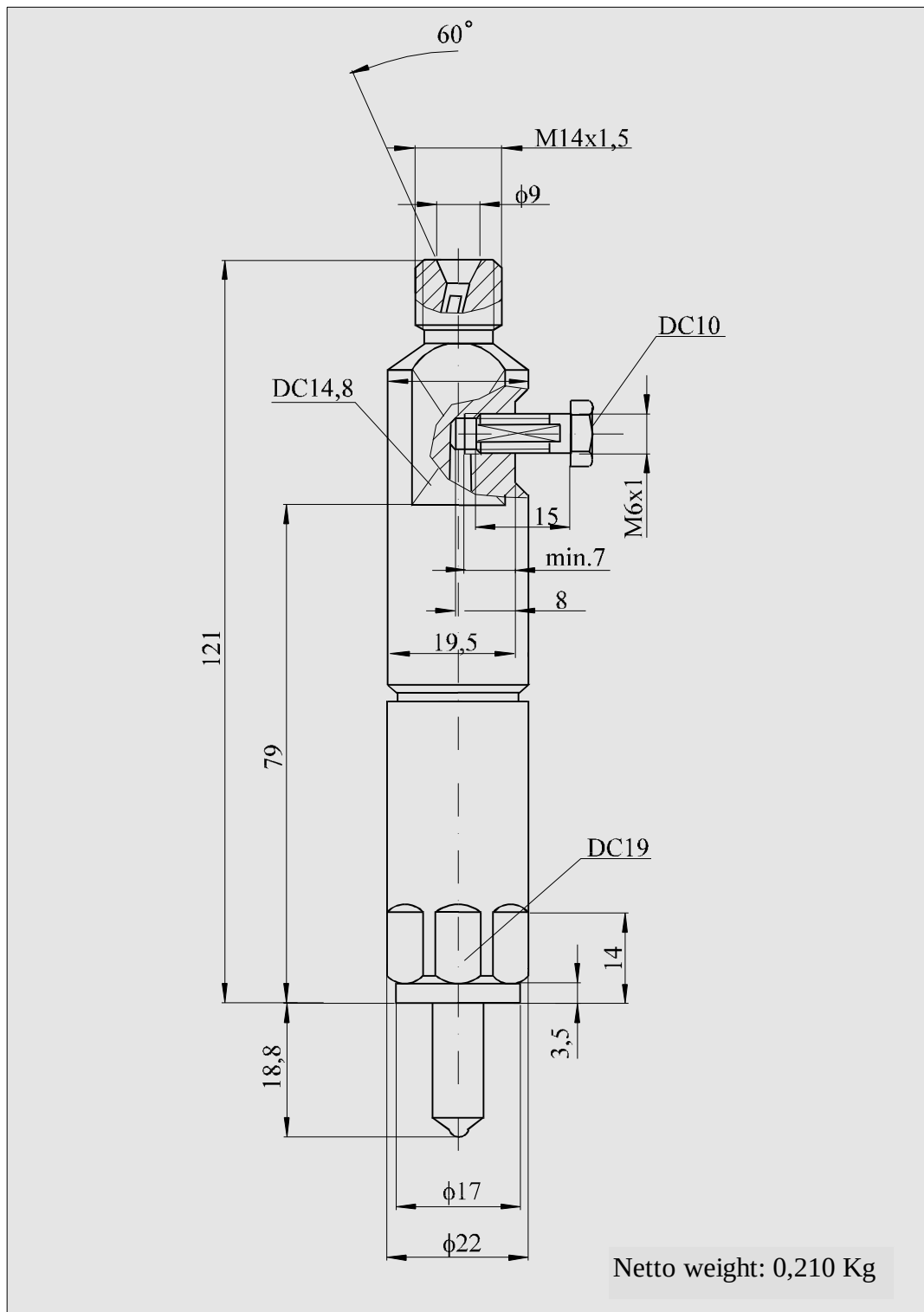
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +5	Main use engines
0 832 291 021	RO-KBAL 76 S 105	RO-DLLA 151 S 164	240	VAMO
	0 831 213 016	0 833 271 051		

A.2.2.2. Injectoare cu fixare cu flansa, cu tija lunga, cu masa redusa, de marime S, tip. RO - KBAL...S.
Injectors with fastening by flange, with long bar, size S, leight weight, type RO - KBAL....S.



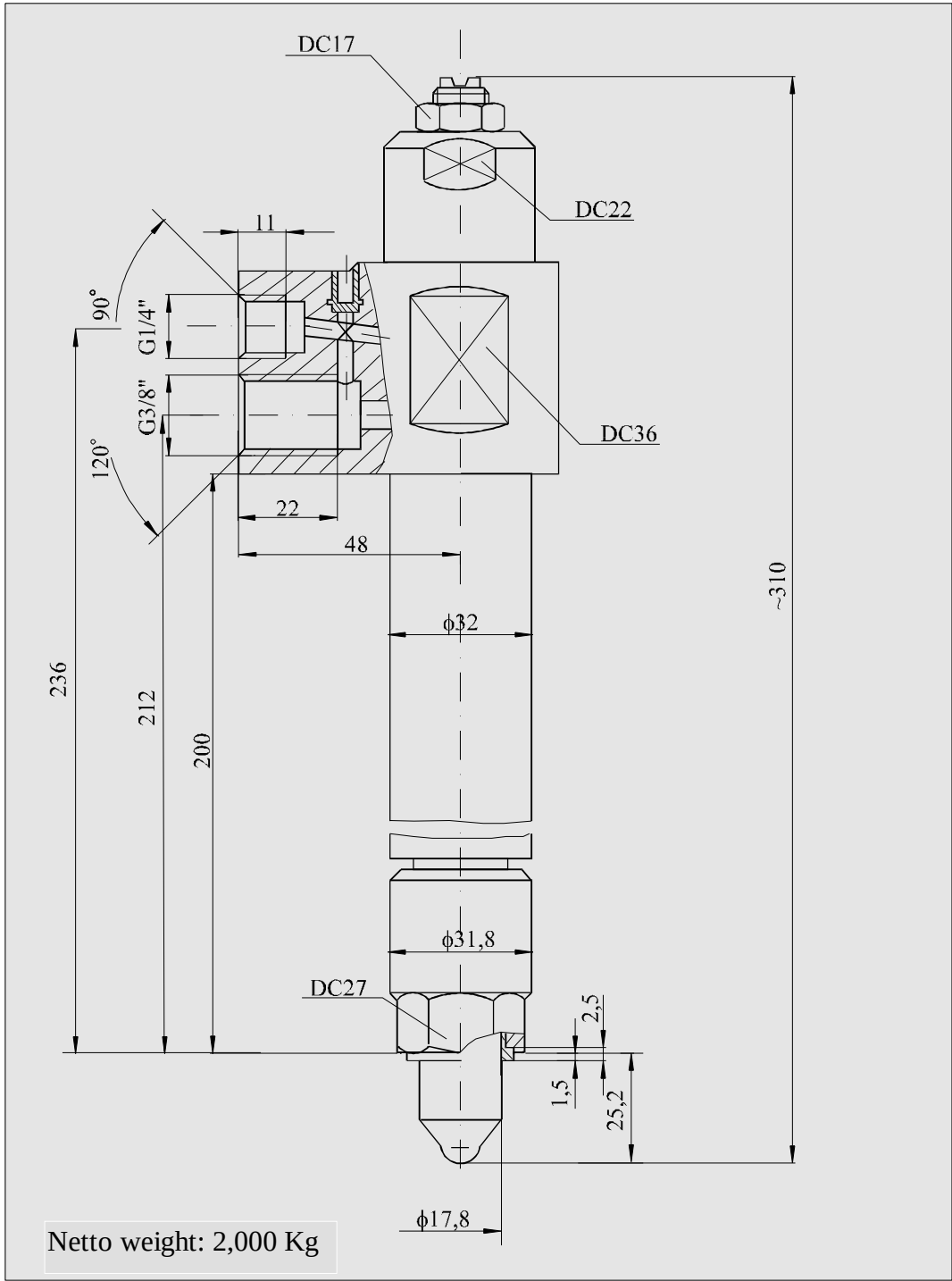
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 291 034	RO-KBAL 83S 129 0 831 213 018	RO-DLLA 124S 191 0 833 271 114	230	PAKISTAN

Injectors with fastening by flange, with long bar, leight weight, size S, , type RO - KBL..S.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 291 007	RO-KBAL 79 S 64 0 831 213 007	RO-DLLA 160 S 93 0 833 271 027	190	M 511

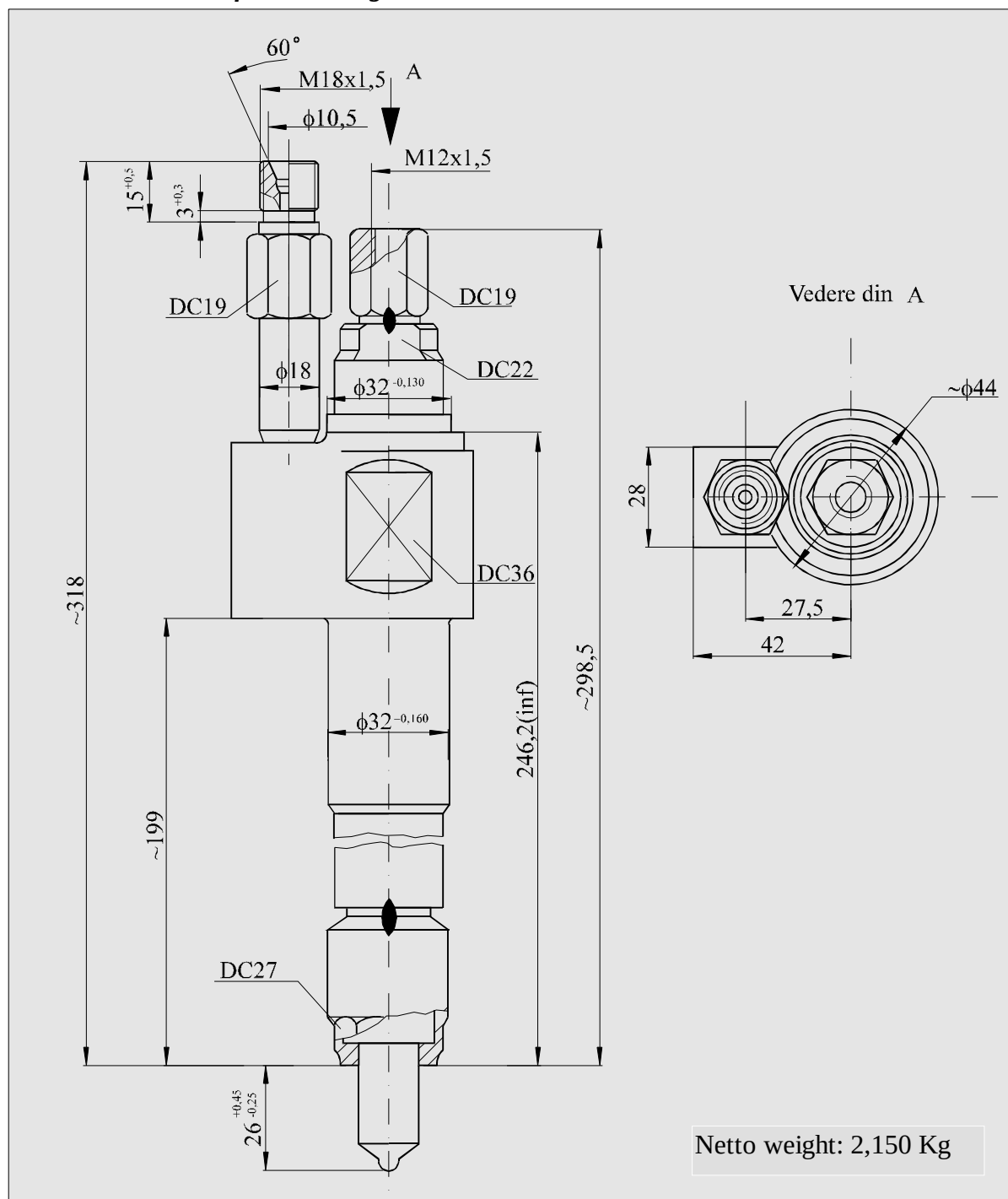
A.2.3.1.a. Injectoare cu fixare cu flansa , cu tija lunga de marime T normale tip. RO-KBL.....T.. pentru motor de locomotiva LDE si LDH.
Injectors with fastening by flange , with long bar , size T , normal weight, type RO-KBL.....T..for locomotive diesel engines LDE and LDH



Symbol	Symbol / item Injector	Symbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 380 000	RO-KB 200 TA 822/12 0 431 308 019	RO-DL 145 T 1113 0 433 300 258	250	12 LDA 28 12 LDA 28
0 832 380 001	RO-KB 200 TA 822/12 0 431 308 019	RO-DL 145 T 1122 0 433 300 261	250 +8	6 LDA 28 6 LDS 28

A.2.3.1.b. Injectoare cu fixare cu flansa , cu tija lunga de marime T normale tip. RO-KBL.....T pentru moare navale 6VD 26/20 AL 2; 6VD 26/20 AL 1.

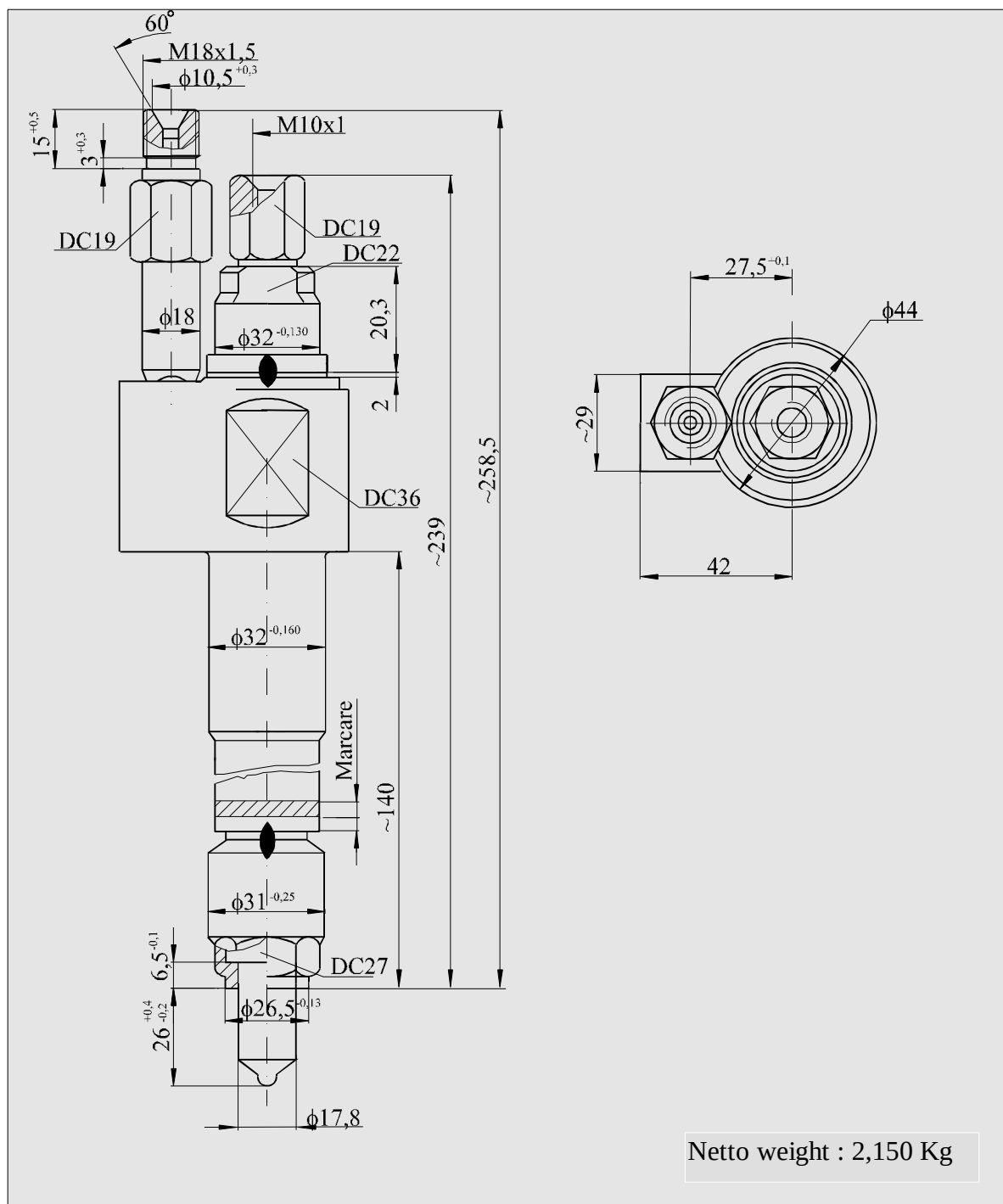
Injectors with fastening by flange , with long bar , size T , normal weight, type RO-KBL.....T , for naval engines 6VD 26/20 AL2 ; 6VD 26/20 AL 1.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
0 832 380 002	RO-KB 200 TA 26 0 831 308 000	RO-DL 155 T 27 0 833 300 002		6VD 26/20 AL1
0 832 380 003	RO-KB 200 TA 26 0 831 308 000	RO-DL 155 T 28 0 833 300 003		6VD 26/20 AL2

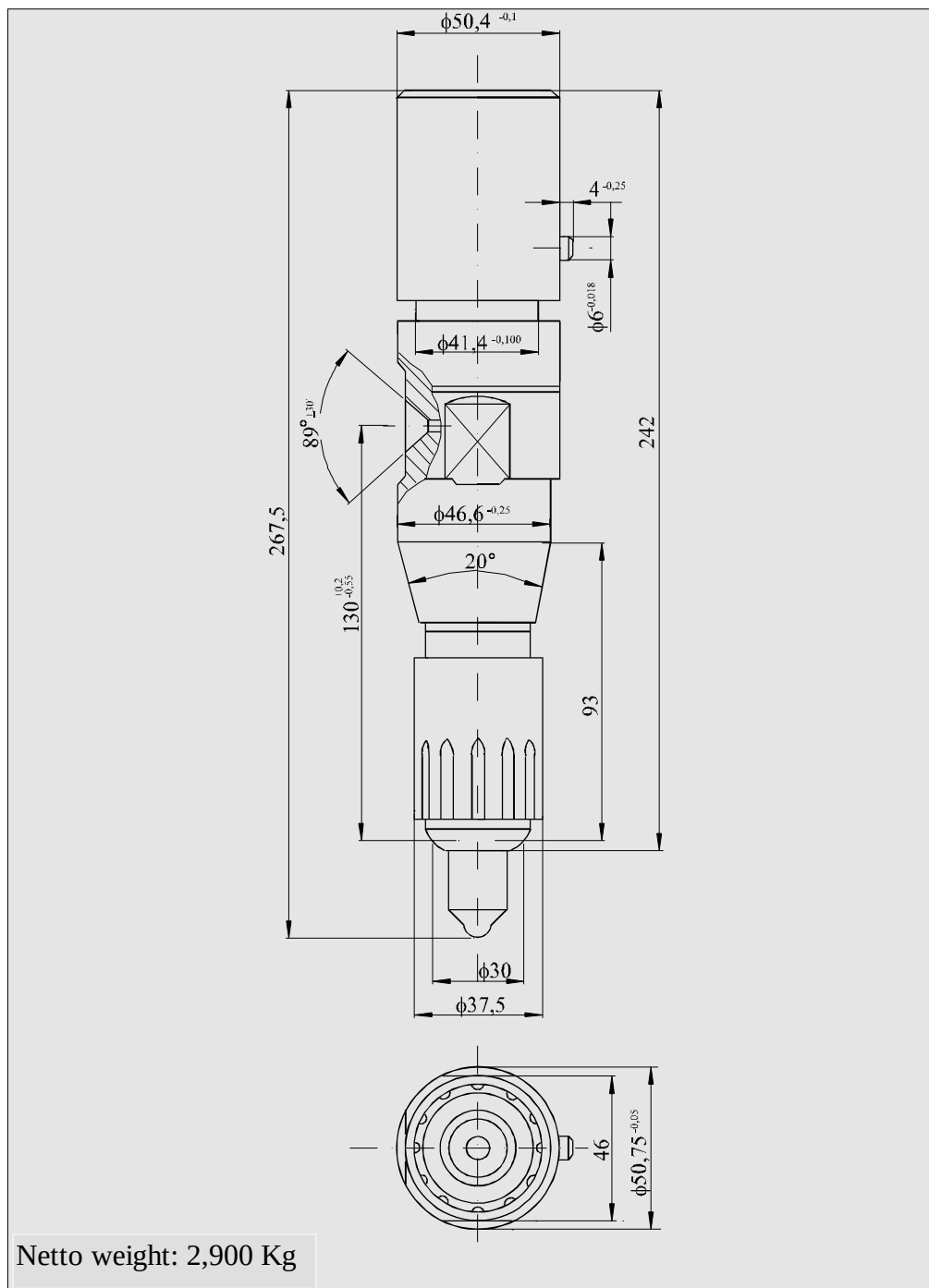
A.2.3.1.c. Injectoare cu fixare cu flansa , cu tija lunga de marime T normale tip. RO-KBL.....T pentru moare navale NVD 26 A 2.

Injectors with fastening by flange , with long bar , size T , normal weight, type RO-KBL.....T , for naval engines NVD 26 A 2.



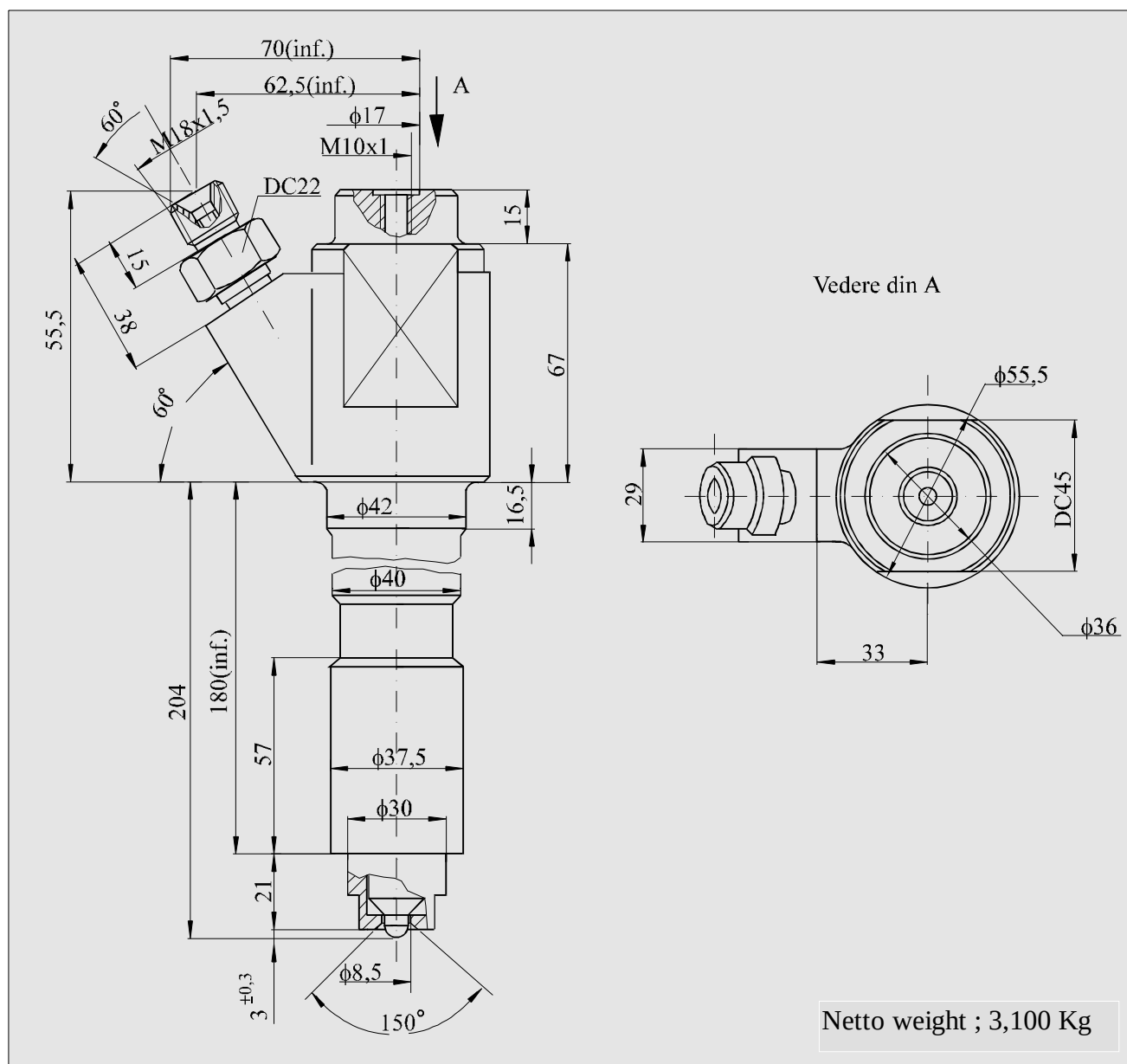
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 380 007	RO-KB 140 TA 59 0 831 308 003	RO-DL 130 T 41 0 833 300 008	250	NVD 26 A 2

A.2.3.2.a. Injectoare cu fixare cu flansa , cu tija lunga de marime T cu masa redusa tip. RO-KBAL.....T pentru motor locomotiva ALCO.
Injectors with fastening by flange , with long bar , size T , with leight weight, type RO-KBL.....T..for locomotive ALCO diesel engine.



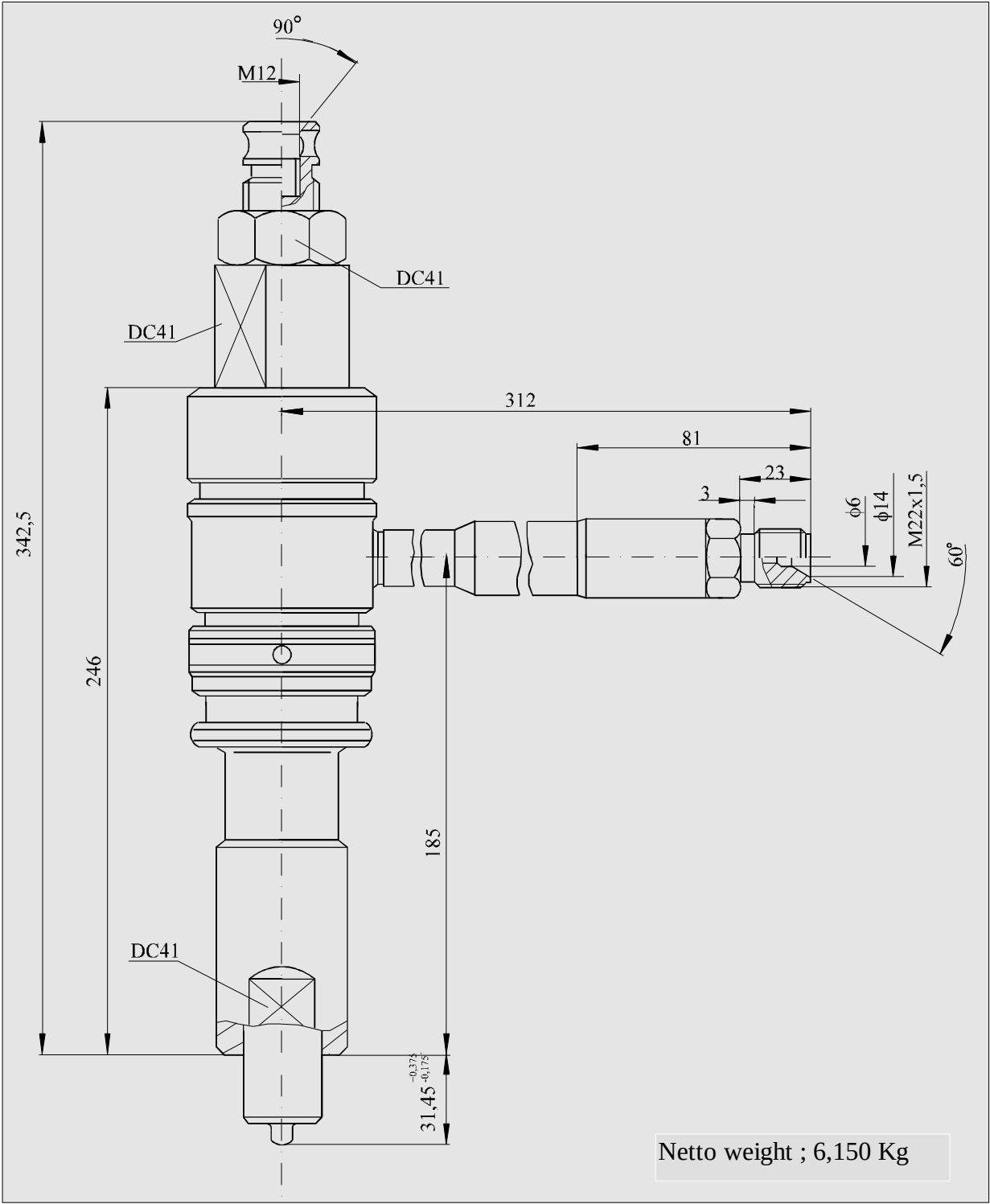
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
Y 45 - 00	RO-KBAL 242 T 45 R Y 45-01	RO-DL 145 T 11 Y 45-02	250 +8	ALCO 6 R 251
Y 59 - 00	RO-KBAL 242 T 45 R Y 45-01	RO-DL 145 T 40 0 833 300 007	250 +8	6 R 251 CGE
Y 65 - 00	RO-KBAL 242 T 45 R Y 45-01	RO-DL 145 T 46 0 833 300 009	250	6 R 251 FLO

A.2.3.2.b. Injectoare cu fixare cu flansa , cu tija lunga de marime T cu masa redusa tip. RO-KBAL.....T pentru motoare navale 6 NVD 36 A 1 A; 6 NVD 36 A 1.
Injectors with fastening by flange , with long bar , size T , with leight weight, type RO-KBL.....T..for naval engines 6 NVD 36 A 1A; 6 NVD 36 A 1.



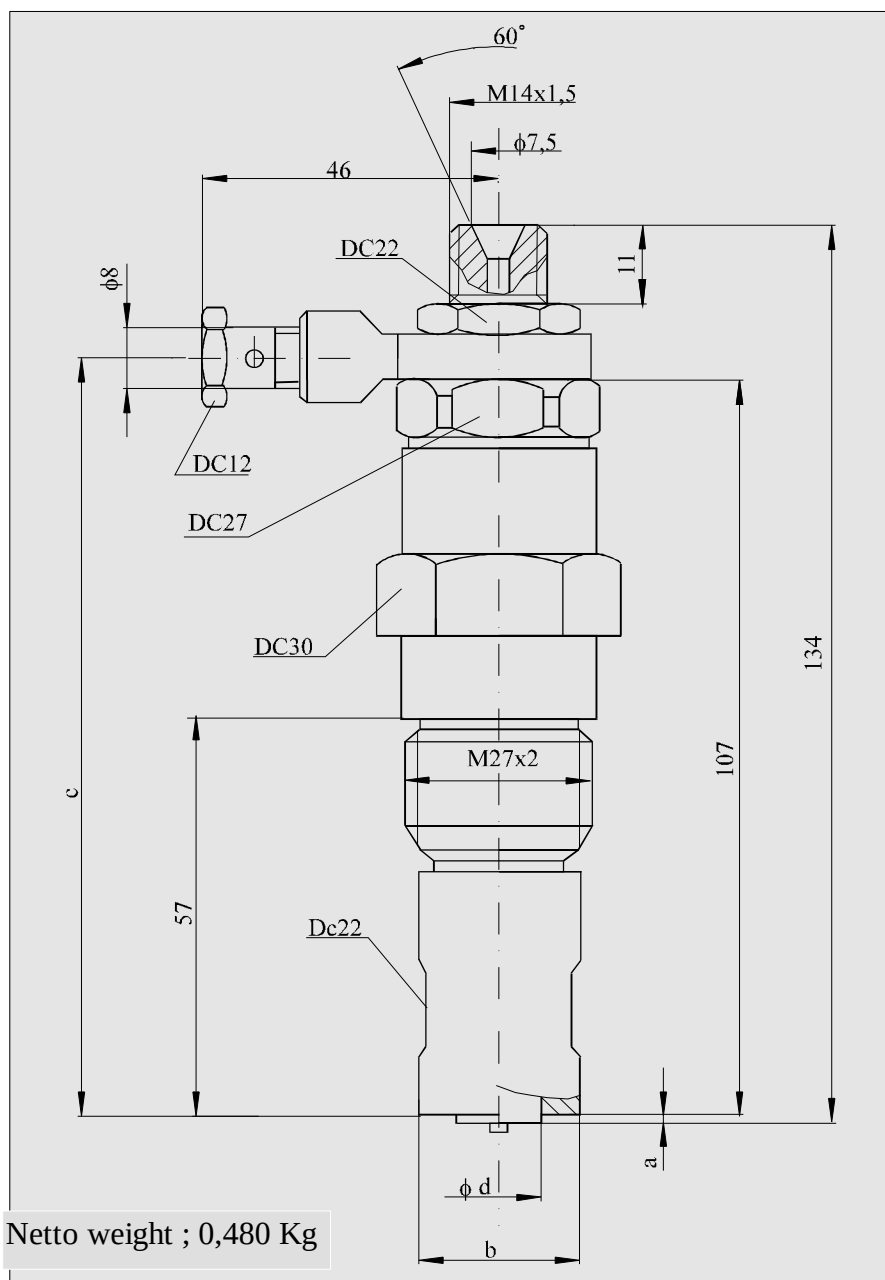
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 380 004	RO-KBAL 180 T 47 0 831 308 001	RO-DL 130 TA 29 0 833 300 004	280	8 NVD 36 A1
0 832 380 005	RO - KBAL 180 T 47 0 831 308 001	RO - DL 130 TA 30 0 833 300 005	280 +8	8 NVD 36 A1A

A .2.4.3. Injectoare cu fixare cu flansa cu tija lunga de marime U cu racire tip. RO-KBF...U.
Injectors with fasteningby flange,with long bar , size U, cooling type RO-KBF.....U.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 482 000	RO-KBF 246 UV 57 0 831 428 000	RO-DLF 150 UV 69 0 833 450 001	250	5 AL 25/30

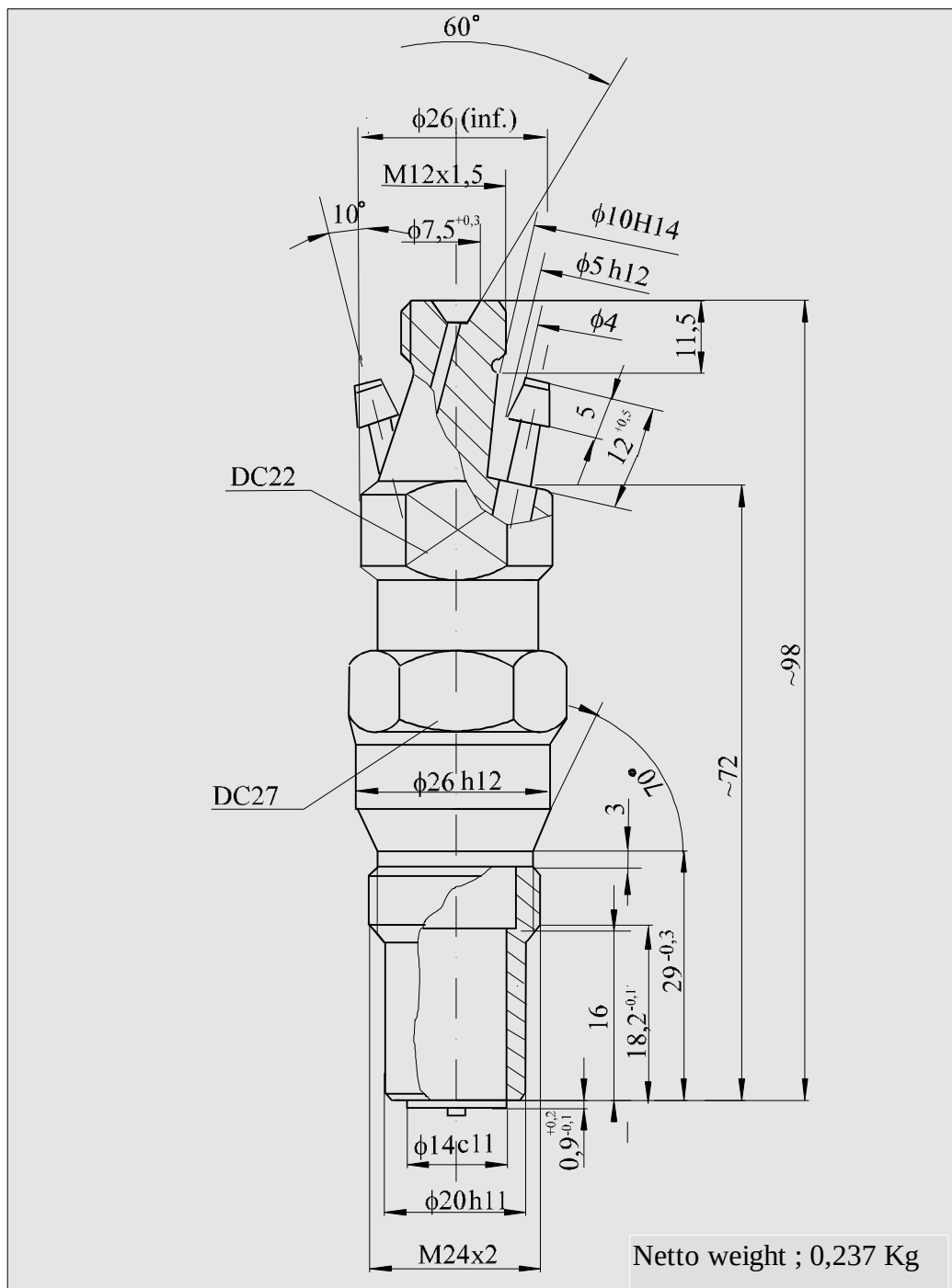
B. 1. Injectoare cu fixare pe filet, normale tip. RO-KC....SD..(filet pe corpul injectorului).
Injectors with fastening on thread, normal weight type RO-KC..SD..
(fastening on the bearing of the injectors).



Symbol	Symbol/Item Injector	Symbol/Item Nozzle	a mm	b mm	c mm	d mm		Opening pressure ⁺⁸	Main use engines
0 832 207 005	RO - KC 57 SD 10 R 0 830 202 001	Y 1-02	0,5	24	111,5	14	Y 1-00	170	MB - 836 MB - 820
0 832 207 004	RO - KC 57 SD 10 R 0 830 202 001	2G16-S-42	0,5	24	111,5	14	Y 7-00	140 ⁺⁸	MB 836,MB 820 element 12
0 832 207 003	RO - KC 57 SD 9 R 0 830 202 000	2G16-S-42 T	1,7	23,8	110,5	14	Y 2800T ⁺⁸	145	D 105 A
0 832 207 002	RO - KC 57 SD 9 R 0 830 202 000	Y 28-02-1	1,7	23,8	110,5	14	Y 28 00 ⁺⁸	110	D 105
0 832 207 001	RO - KC 57 SD 23 4 0 430 202 001	RO-DN0SD 130 0 434 250 004	1	23,8	111	14	-	175 ⁺⁸	D 55 , D 80 D 110 T N
0 832 207 000	RO - KC 57 SD 22 4 0 430 202 004	RO-DN0SD 130 0 434 290 003	1	23,8	111	14	-	175 ⁺⁸	M - 581 M - 583

B.2.1. Injectoare cu fixare pe filet cu masa redusa tip. RO-KCA...SD..cu eliminarea surplusului de motorina prin tevute.

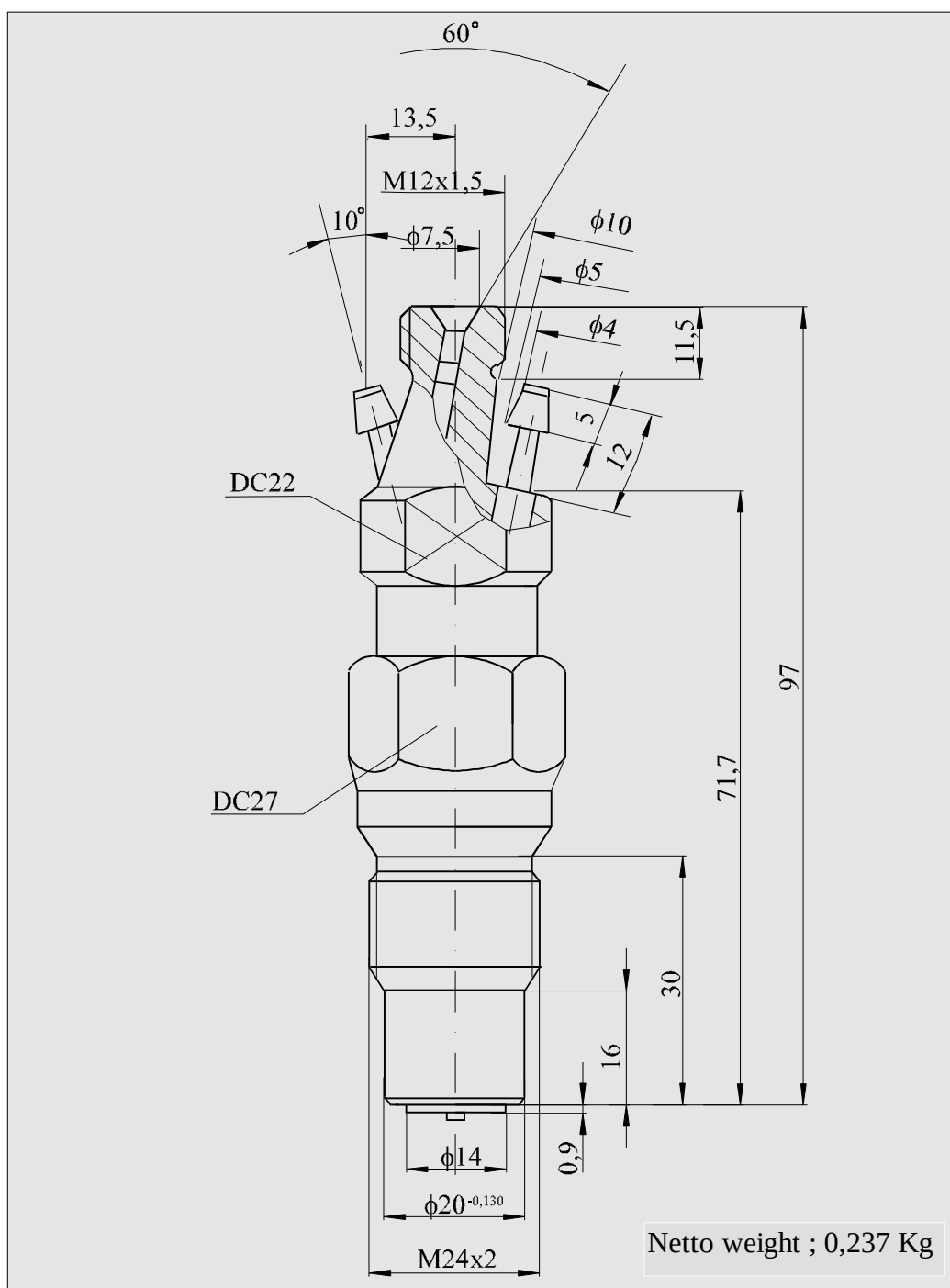
Injectors with fastening on thread light weight, type RO-KCA...SD..with the elimination of the gas-oil excess through outlet pipes.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +5	Main use engines
0 832 207 012	RO-KCA30 SD 66 0 830 211 005	RO-DN0SD21 0 834 250 003	115	Mercedes Volvo

B.2.1. Injectoare cu fixare pe filet cu masa redusa tip. RO-KCA...SD..cu eliminarea surplusului de motorina prin tevute.

Injectors with fastening on thread leight weight, type RO-KCA...SD..with the elimination of the gas-oil excess through outlet pipes.

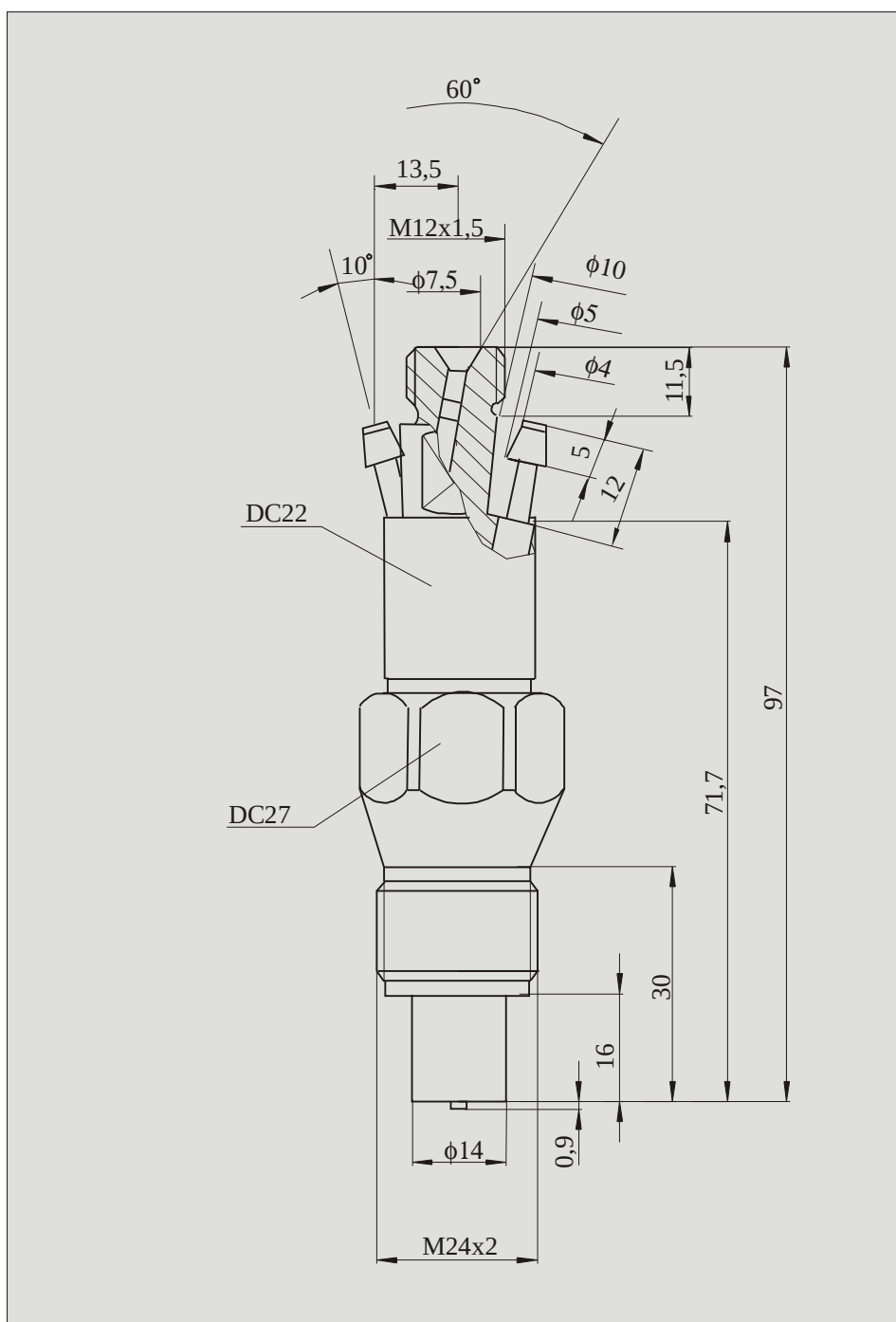


Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 207 006	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 21 0 834 250 003	130	ARO L 27D
0 832 207 006Z	RO-KCA 30 SD 16Z 0 830 211 000	RO-DN0SD 21 0 834 250 003	110	ARO 24 Polonia

Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
0 832 207 014	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 18 0 834 250 002	+5 125	Audi, Fiat, Volvo Mercedes , Renault
DN0SD 193				
0 832 207 015	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 127 0 834 250 013	+5 130	Audi, Nisan, Volvo Wolswagsn
DN0SD 293				
0 832 207 019	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 51 0 834 250 006	+5 120	Mercedes Agregat frigorific
DN0SD 211				
0 832 207 020	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 21 0 834 250 003	+5 115	Alfa Romeo, Peugeot Mercedes, Rover
DN0SD1510				
0 832 207 022	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 128 0 834 250 014	+5 125	Mercedes Isuzu
DN0SD 2110				
0 832 207 023	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 137 0 834 250 018	+5 135	Fiat, Ford, Opel, Seat Volvo, Vauxhall
DN0SD1930				
0 832 207 024	RO-KCA 30 SD 16 0 830 211 000	RO-DN0SD 134 0 834 250 015	+5 120	Citroen, Ford Peugeot
DN0SD 230				
0 832 207 025	RO-KCA 30 SD 16 0 830 211 000	RO-DN 12 SD 136 0 834 250 017	+5 130	Fiat, Lancia Iveco
DN 12 SD 1750				
Simbol BOSCH				

B.2.1. Injectoare cu fixare pe filet cu masa redusa tip. RO-KCA...SD..cu eliminarea surplusului de motorina prin tevute.

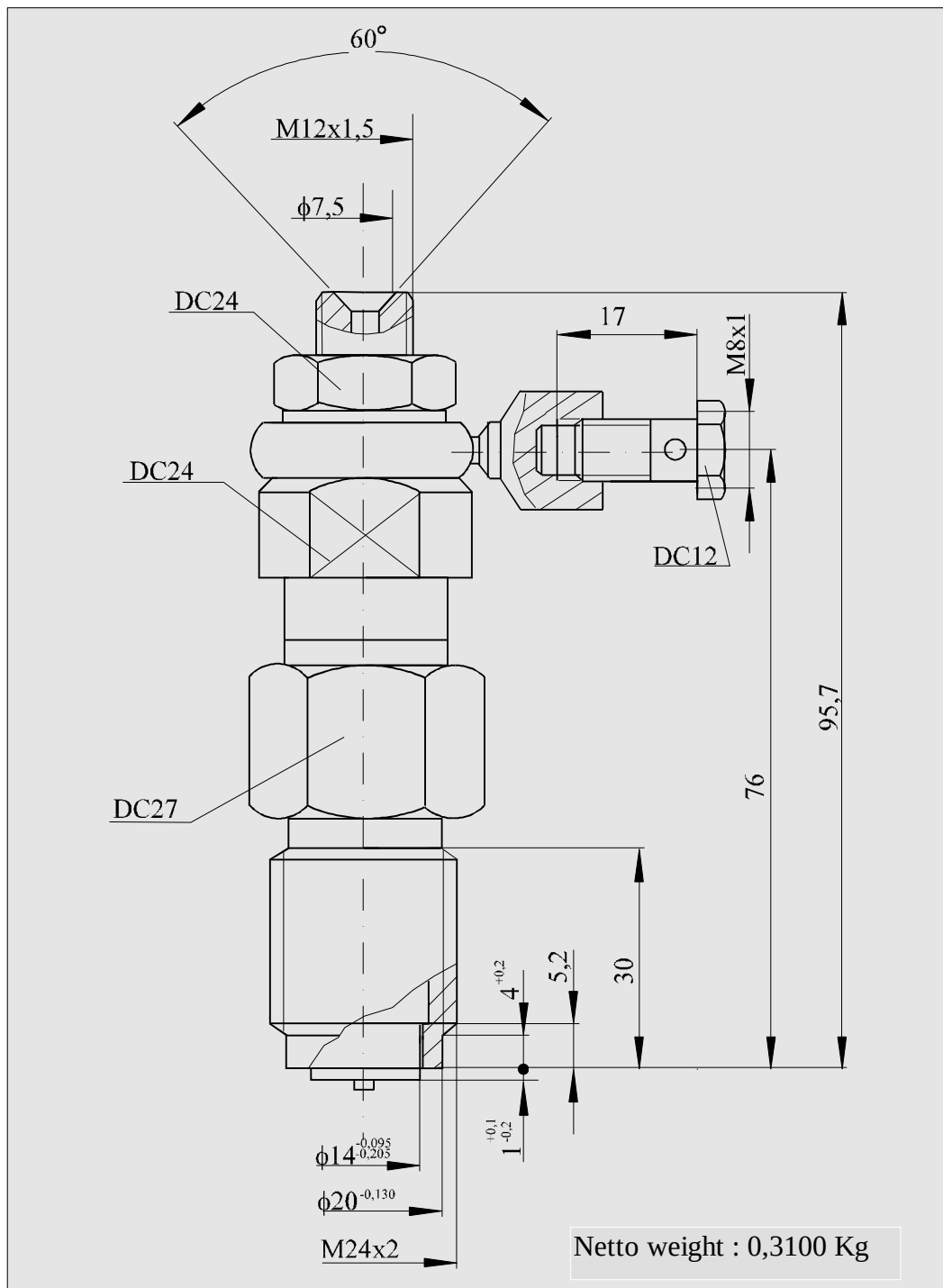
Injectors with fastening on thread leight weight, type RO-KCA...SD..with the elimination of the gas-oil excess through outlet pipes.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 217 000	RO-KCA 17SD 142 0 830 211 007	RO-DNOSD 140 0 834 250 020	130	F9 Q 1,9 L

B.2.2. Injectoare cu fixare pe filet cu masa redusa tip. RO-KCA...SD..cu eliminarea surplusului de motorina prin bulon racord.

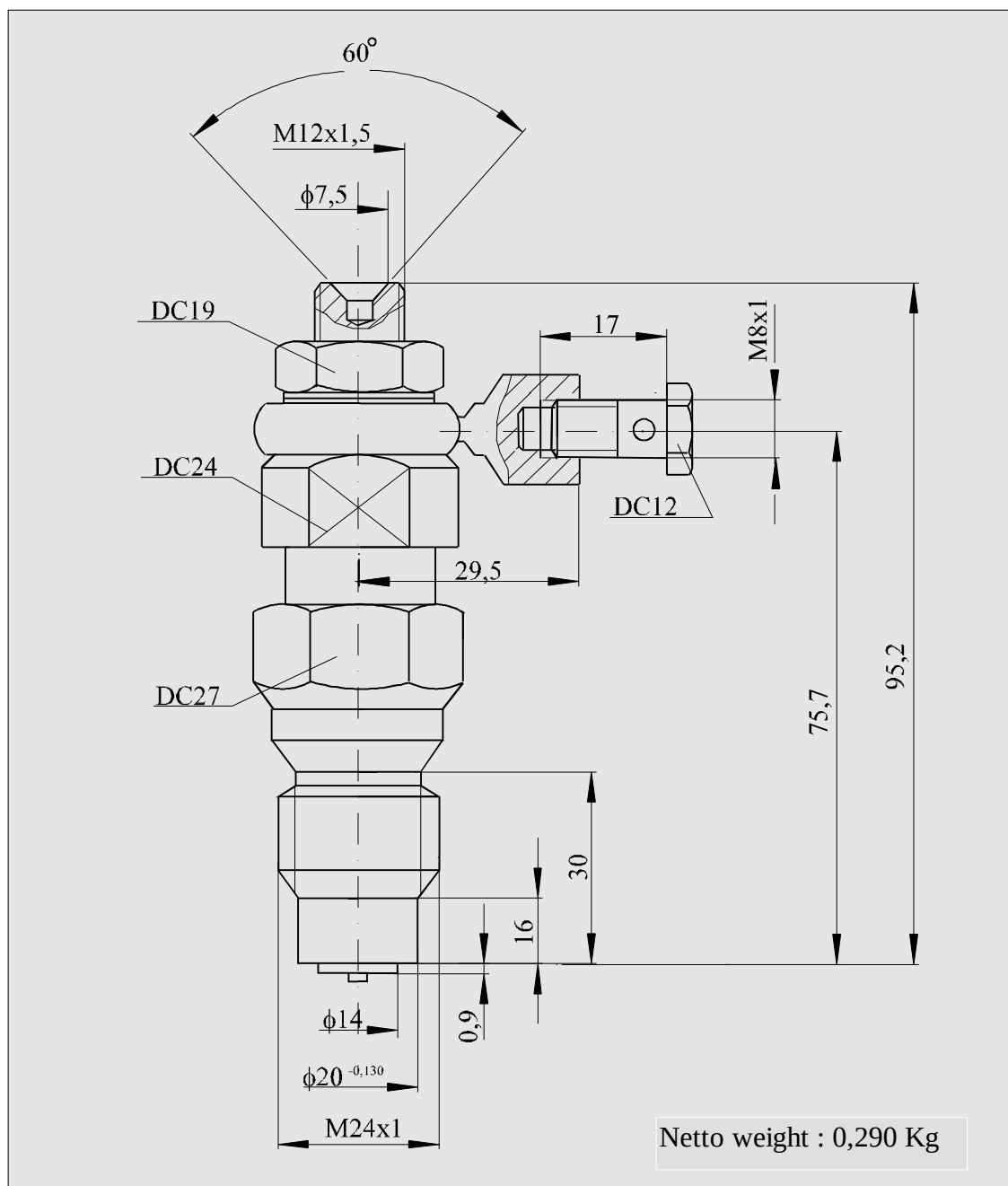
Injectors with fastening on thread light weight, type RO-KCA...SD..with the elimination of the gas-oil excess through outlet connecting bolt.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 207 011	RO-KCA 30 SD 53 0 830 211 004	RO-DN0SD 131 0 434 290 003	190	6VD 18/15AL1

B.2.2. Injectoare cu fixare pe filet cu masa redusa tip. RO-KCA...SD..cu eliminarea surplusului de motorina prin bulon racord.

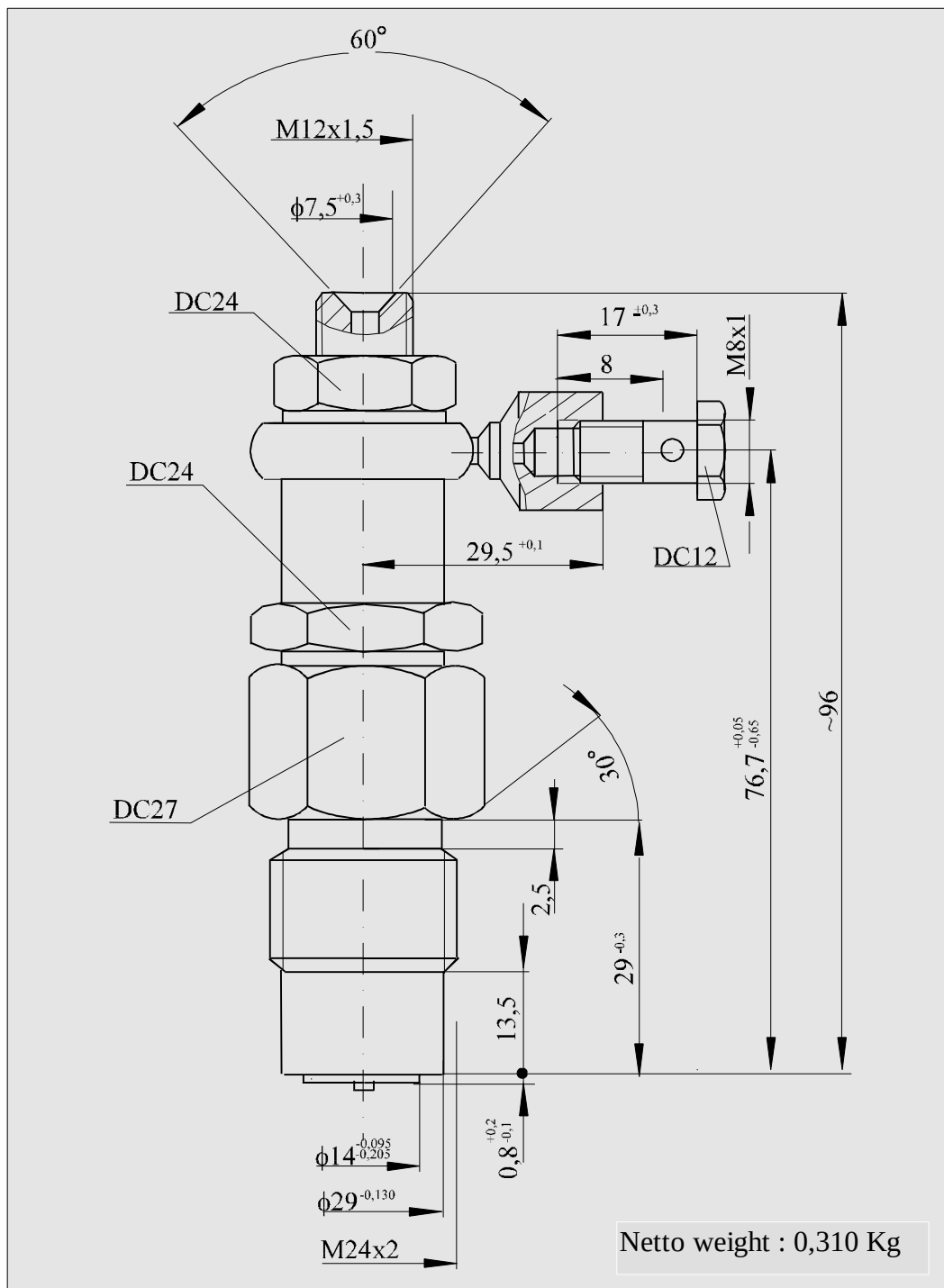
Injectors with fastening on thread leight weight, type RO-KCA...SD..with the elimination of the gas-oil excess through outlet connecting bolt.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 207 009	RO-KCA 30 SD 43 0 830 211 002	RO-DN0SD 21 0 834 250 003	130	D 2601050 MN D 2610030 MA locomotiva mina

B.2.2. Injectoare cu fixare pe filet cu masa redusa tip. RO-KCA...SD..cu eliminarea surplusului de motorina prin bulon racord.

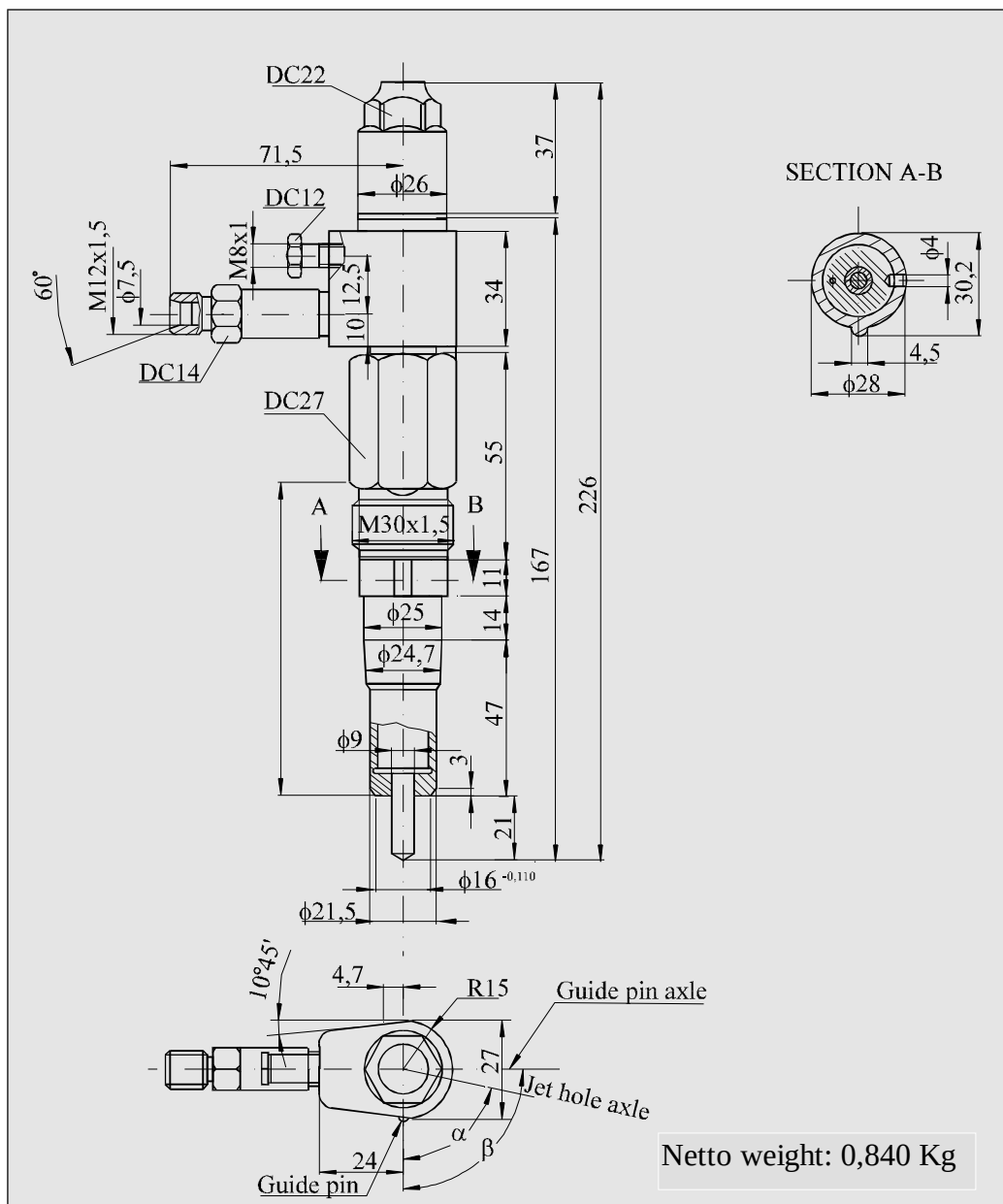
Injectors with fastening on thread leight weight, type RO-KCA...SD..with the elimination of the gas-oil excess through outlet connecting bolt.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁵	Main use engines
0 832 207 013	RO-KCA 30 SD 92 0 830 211 006	RO-DN12 SD 5R 0 834 290 000	125	VD 8

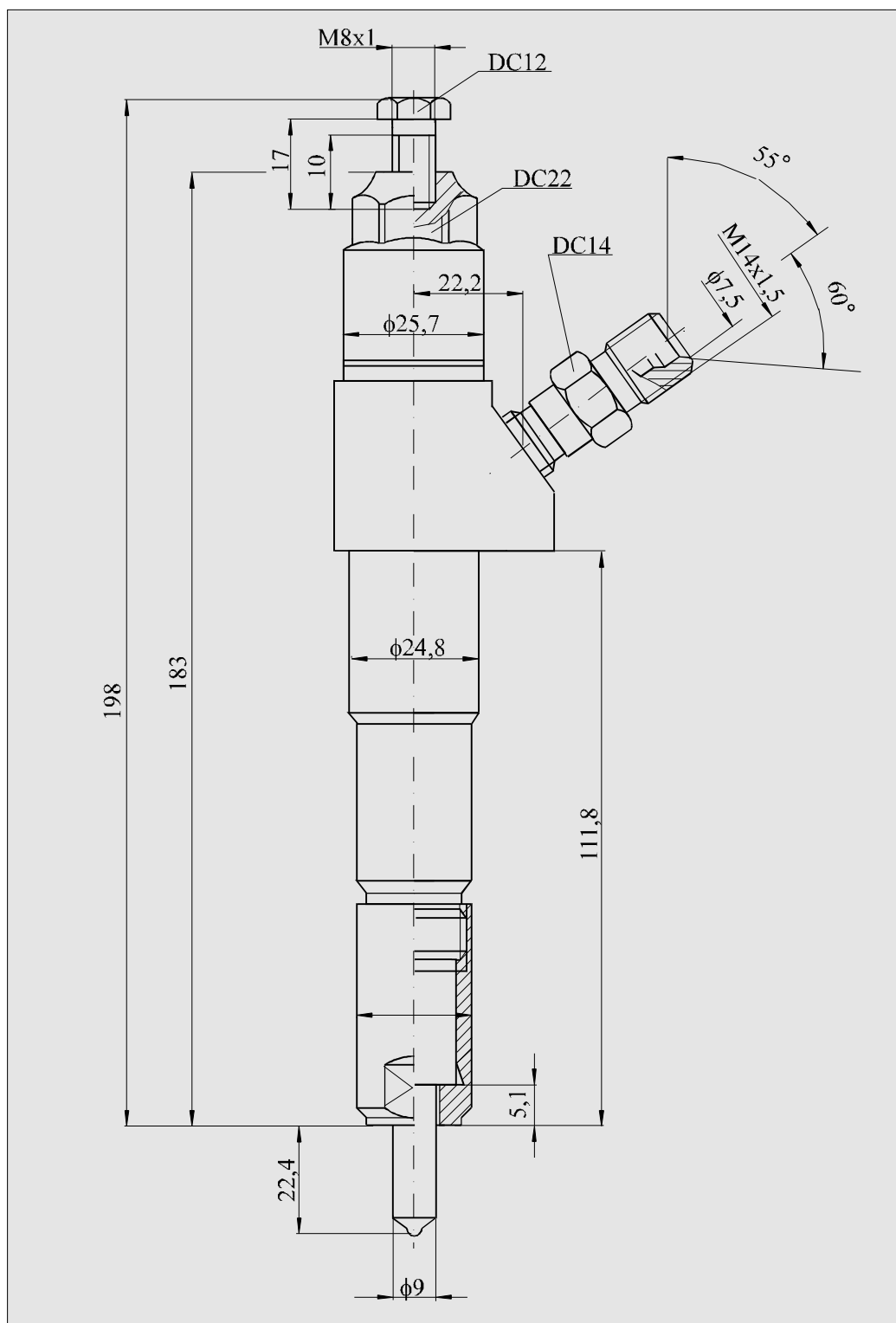
C.1.1. Injectoare cu fixare cu bucsa filetata normale tip. RO - KDL...S.. pentru pulverizator RO - DLLA....S..

Injectors with fastening by threaded sleeve, normal weight type RO - KDL....S..for nozzle RO - DLLA...S..



Symbol	Symbol/Item Injector	Symbol/Item Nozzle	a	b	Opening pressure	Main use engines
0 832 281 002	RO - KDL 94 S 3 R 0 831 210 000	RO - DLLA 35 S 377 0 833 270 002	185	90	+8 175	D-2156 HMN 8 D-2356 HMN 8
0 832 281 011	RO - KDL 94 S 3 R 0 831 210 000	RO - DLLA 38 S 208 0 833 271 006	185	90	+8 175	D - 2156 MTN8
0 832 281 023	RO - KDL 94 S 3 R 0 831 210 000	RO - DLLA 38 S 208 0 833 271 006	185	90	+8 190	Ungaria D-2156 MT6
0 832 281 007	RO - KDL 94 S 18 13 0 831 210 001	RO - DLLA 35 S 2180 0 833 271 003	85	0	+8 175	D-128; D-131 D-2156 HMN 6 0
832 281 010	RO - KDL 54 S 18 13 0 831 210 001	RO - DLLA 35 S 262 0 433 270 081	85	0	+8 175	D-2156 HMN 81 85 U

C.1.2. Injectoare cu fixare cu bucsa filetata, normale, tip. RO - KDL...S, pentru pulverizator RO - DLL...S. .
Injectors with fastening by threaded sleeve, normal weight, type RO - KDL...S for nozzle RO - DLL...S.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8 200	Main use engines DVT 330
0 832 281 043	RO-KDL 112 S 62 0 831 210 000 M	RO-DLL 130 S 122 0 833 272 021		

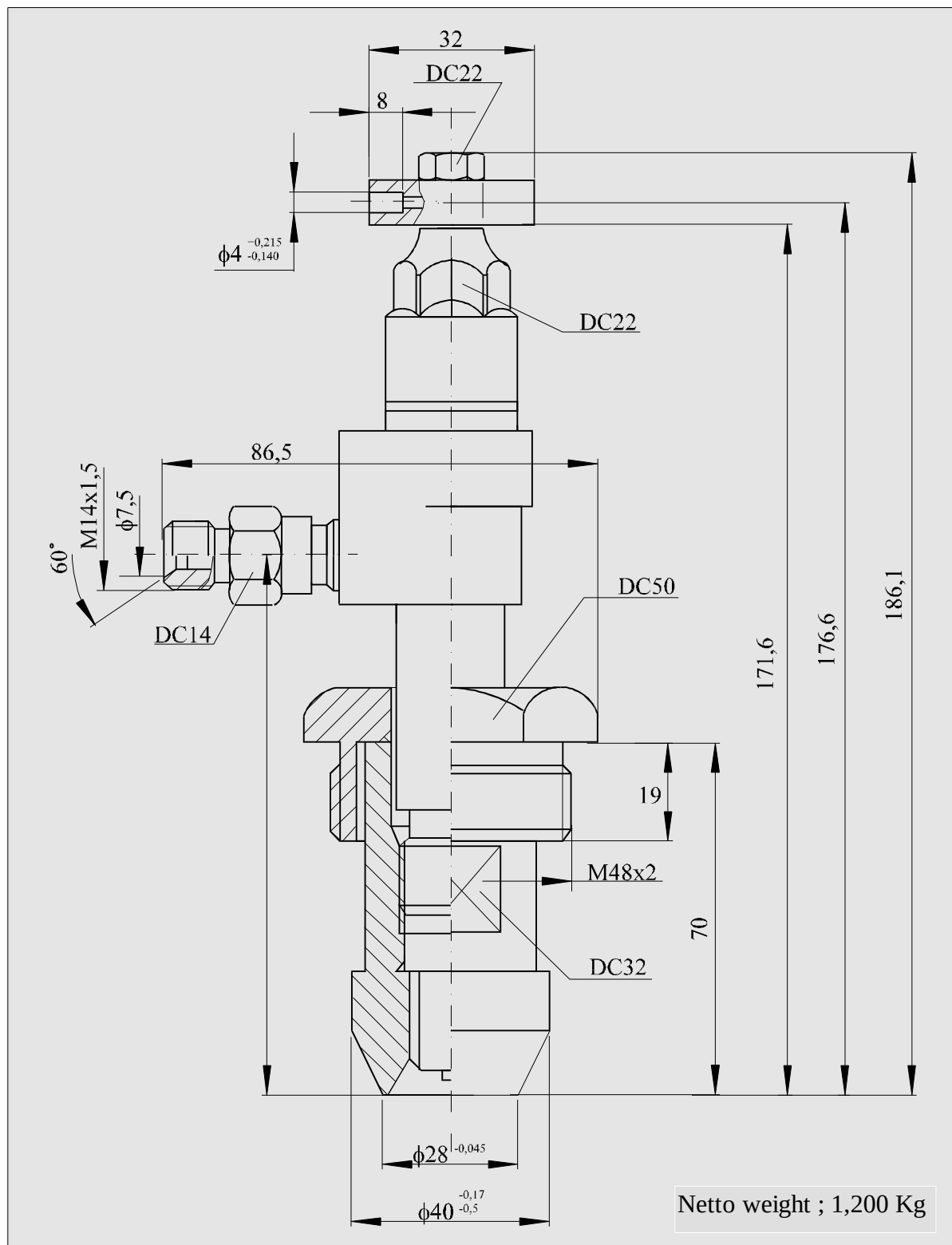
Injectors with fastening by threaded sleeve, normal weight type RO-KDL...S..for nozzle RO-DN....S..



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 227 000	RO-KDL 78 S 36 0 831 210 003	2G16 - S42-1	110	MG-450

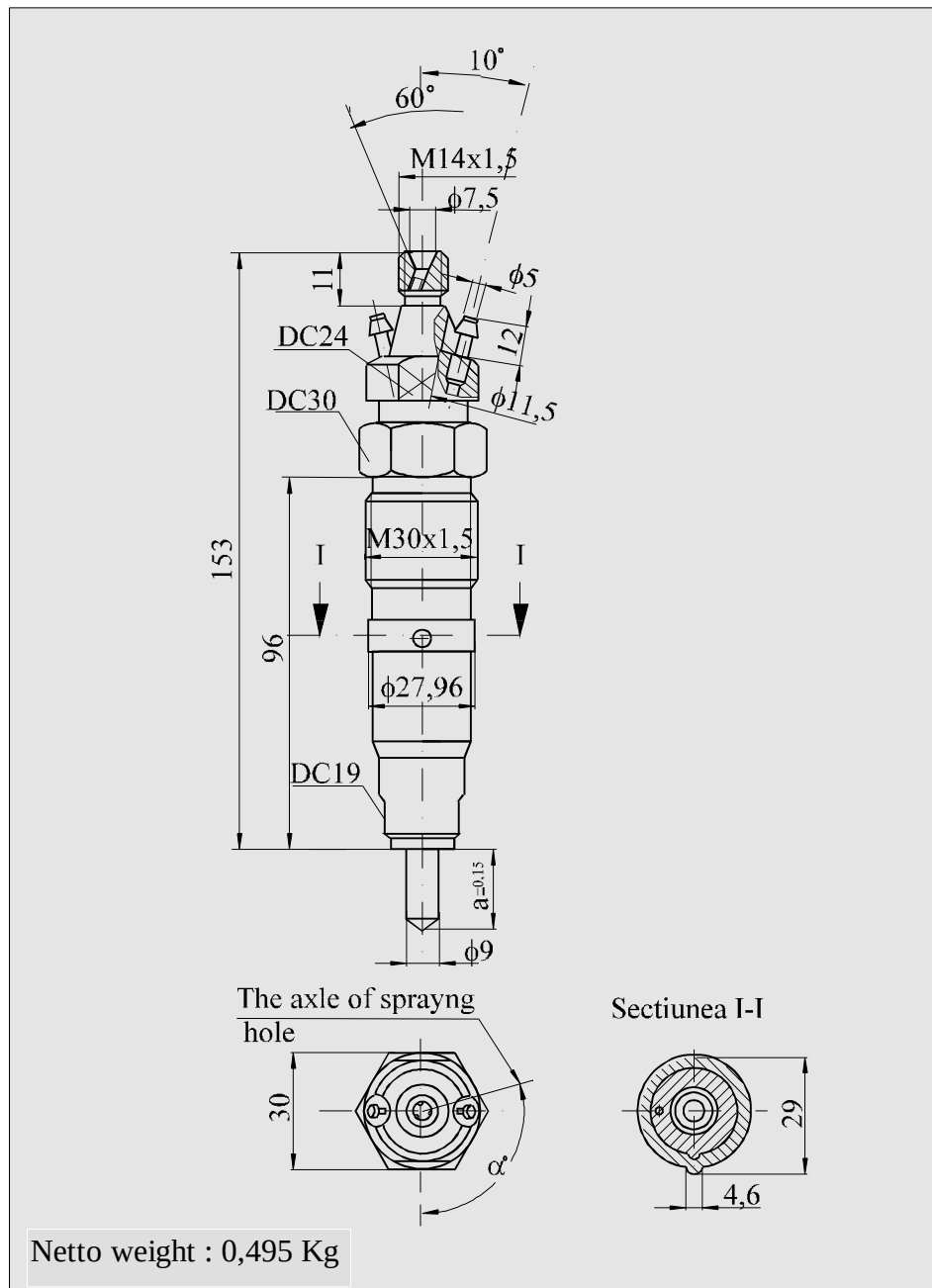
C.1.3. Injectoare cu fixare cu bucsa filetata normale tip. RO-KDL...S..pentru pulverizatoar RO-DN...S.

Injectors with fastening by threaded sleeve, normal weight type RO-KDL...S..for nozzle RO-DN...S.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 281 035	RO-KDL 70 S35 0 831 210 002	2G16 - S42 -1	120	Tractor S-80 (Y30-00)

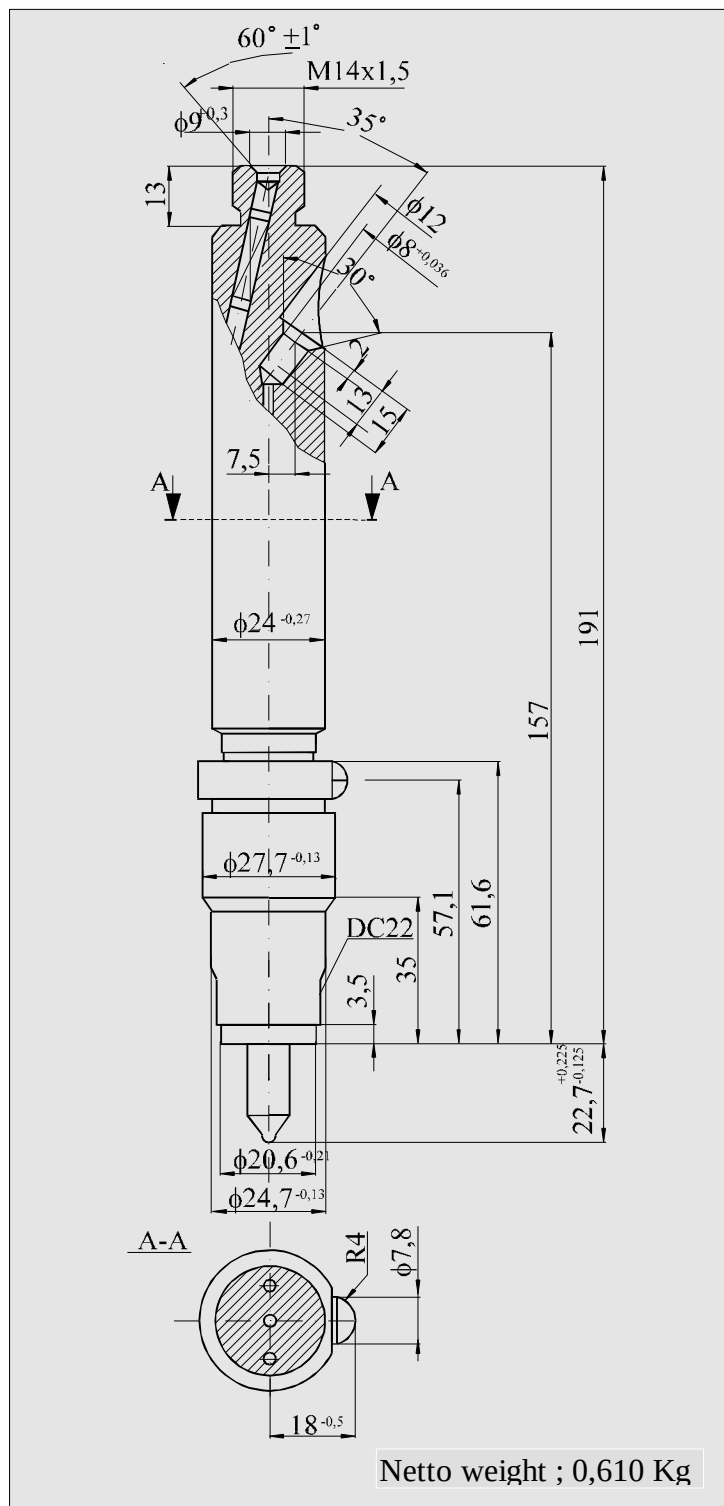
C.2.1. Injectoare cu fixare cu bucsa filetata cu masa redusa tip. RO-KDAL...S..cu eliminarea surplusului de motorina prin tevute fixe.
Injectors with fastening by threaded sleeve, with leight weight, type RO-KDL...S.. with the elimination of the gas-oil excess throught outlet little pipes



Symbol	Symbol/Item Injector	Symbol/Item Nozzle	a mm	(a)	Opening presure	Main use engines
0 832 231 000	RO - KDAL 96 S 16/4 0 830 233 006	RO - DLL 35 S 559 0 433 220 130	18,8	105	+8 175	D-2156 HMN 8 D-2356 HMN 8
0 832 231 001	RO - KDAL 96 S 16/4 0 830 233 006	RO - DLL 35 S 562 0 433 220 133	18,8	85	+8 175	D-2156 HM 81 U D-2156 HM 85 U
0 832 231 002	RO - KDAL 96 S 16/4 0 830 233 006	RO - DLL 35 S 560 0 433 220 131	18,28	95	+8 175	D-215 6 MTN 8

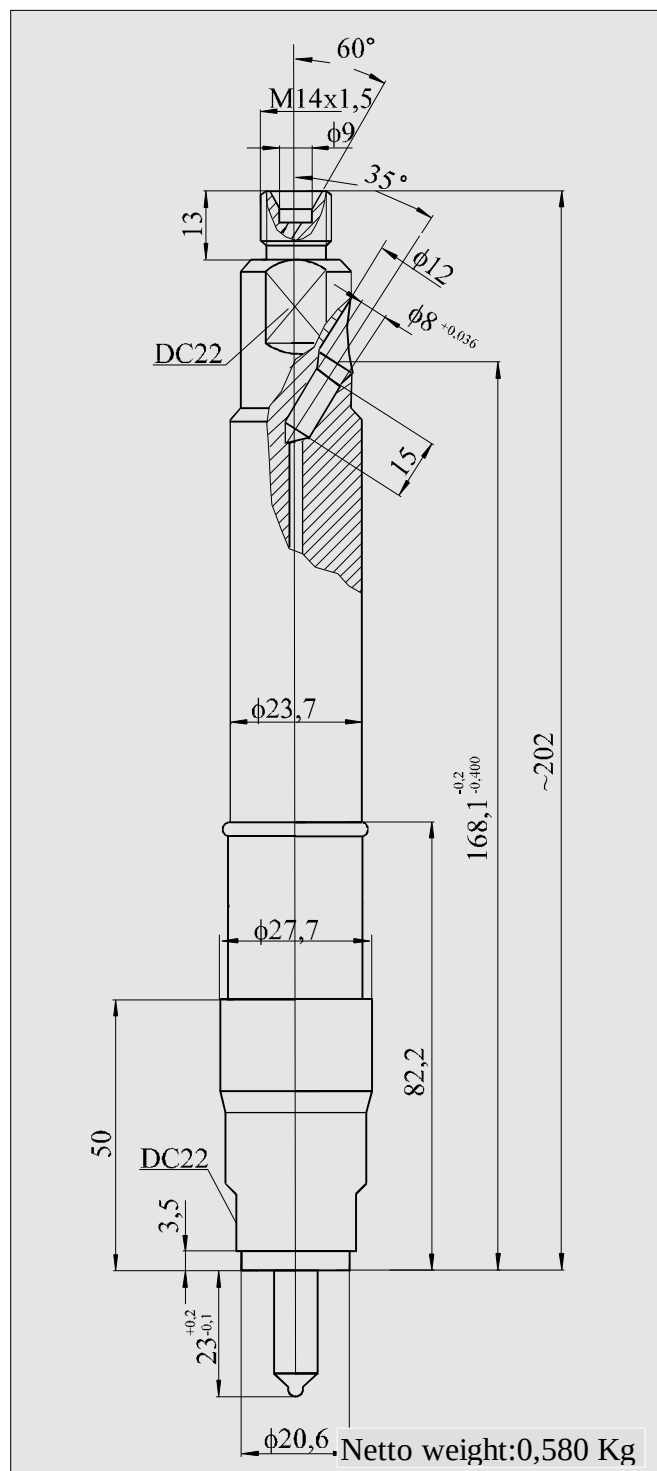
C.2.2.a. Injectoare cu fixare cu bucsa filetata cu masa redusa tip. RO-KDAL...S..cu eliminarea surplusului de motorina prin tevute amovibile.

Injectors with fastening by threaded sleeve, with leight weight, type RO-KDL...S.. with the elimination of the gas-oil excess throught outlet little pipes.



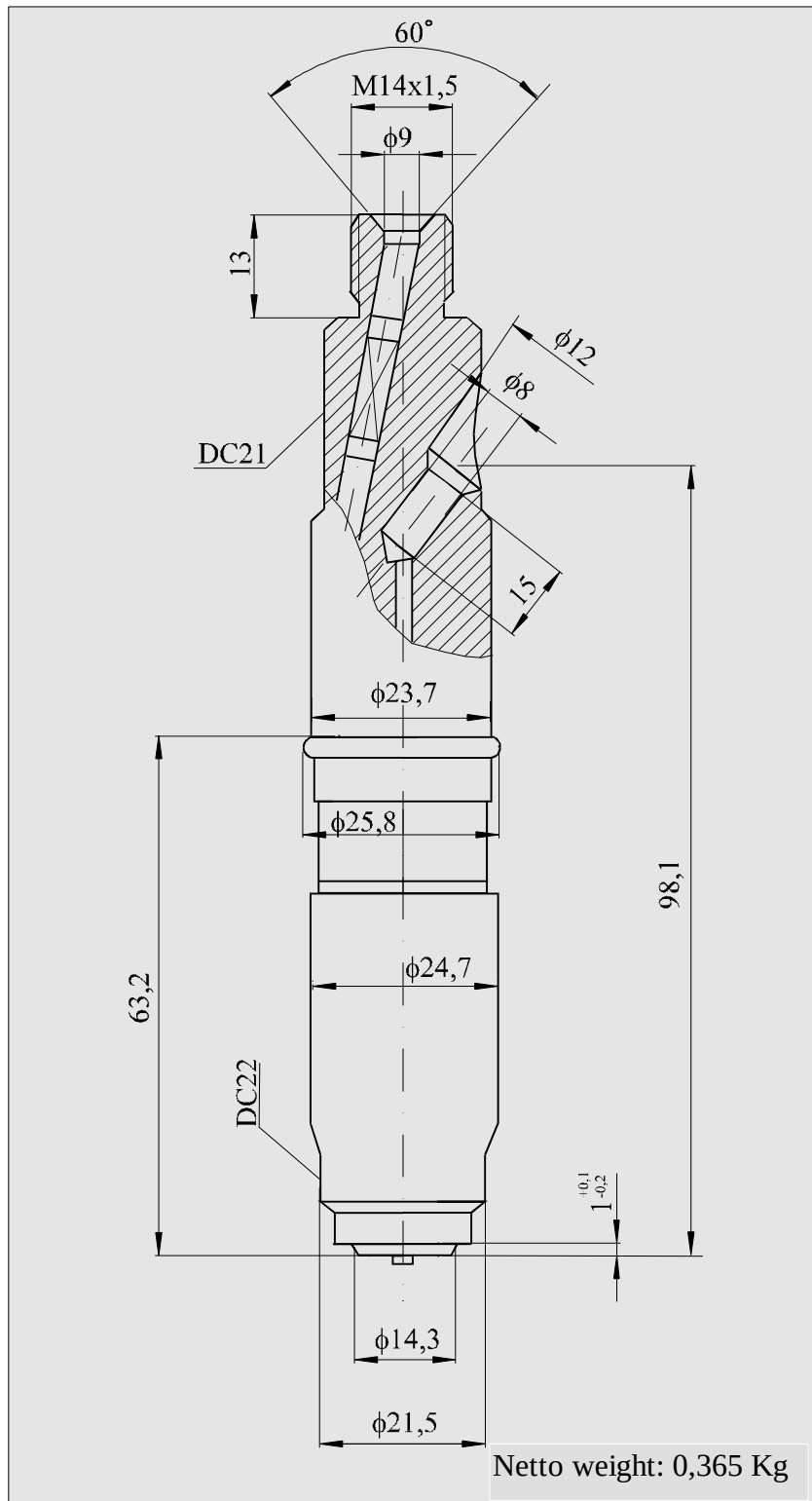
Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
0 832 281 019	RO-KDAL 62 S 18 0 830 233 003	RO - DLL 152 S 19 0 833 272 005	+8 240	MTU 8 VSA

C.2.2.b. Injectoare cu fixare cu bucsa filetata cu masa redusa tip. RO-KDAL...S..cu eliminarea surplusului de motorina prin tevute amovibile.
Injectors with fastening by threaded sleeve, with leight weight, type RO-KDL...S.. with the elimination of the gas-oil excess throught outlet little pipes



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 281 036	RO-KDAL 101 S 44 0 830 233 004	RO - DLL 140 S 10 R 0 833 272 003 M	185	M 836 SR

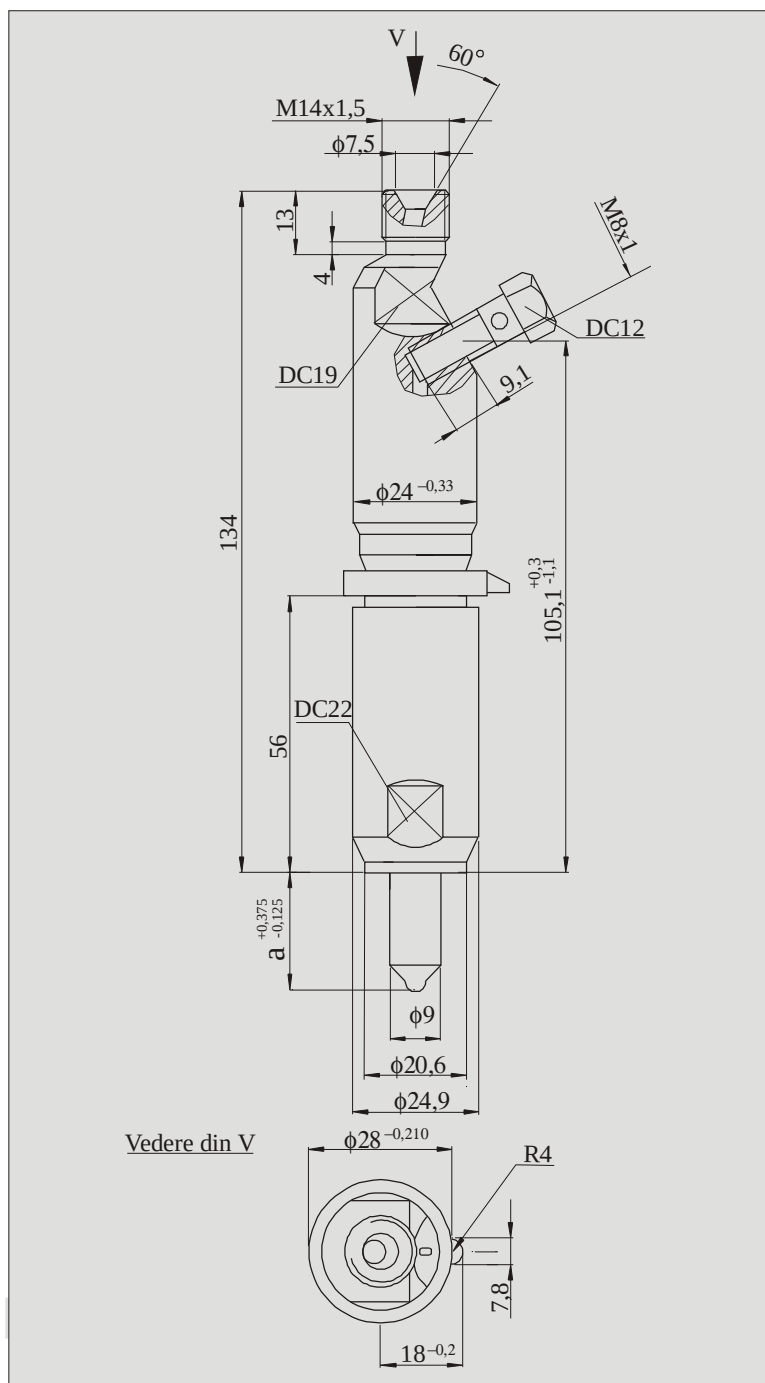
C.2.2.c. Injectoare cu fixare cu buca filetata cu masa redusa tip. RO-KDAL...S..cu eliminarea surplusului de motorina prin tevute amovibile.
Injectors with fastening by threaded sleeve, with leight weight, type RO-KDL...S.. with the elimination of the gas-oil excess throught outlet little pipes



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure +8	Main use engines
0 832 281 026	RO-KDAL 63 S 24 0 830 233 005	RO - DN0SD 131 0 434 290 003	175	MB 836 MB 820

C.2.3. Injectoare cu fixare cu buca filetata, cu masa redusa, tip. RO -KDAL...S.cu eliminarea surplusului de motorina prin bulon racord.

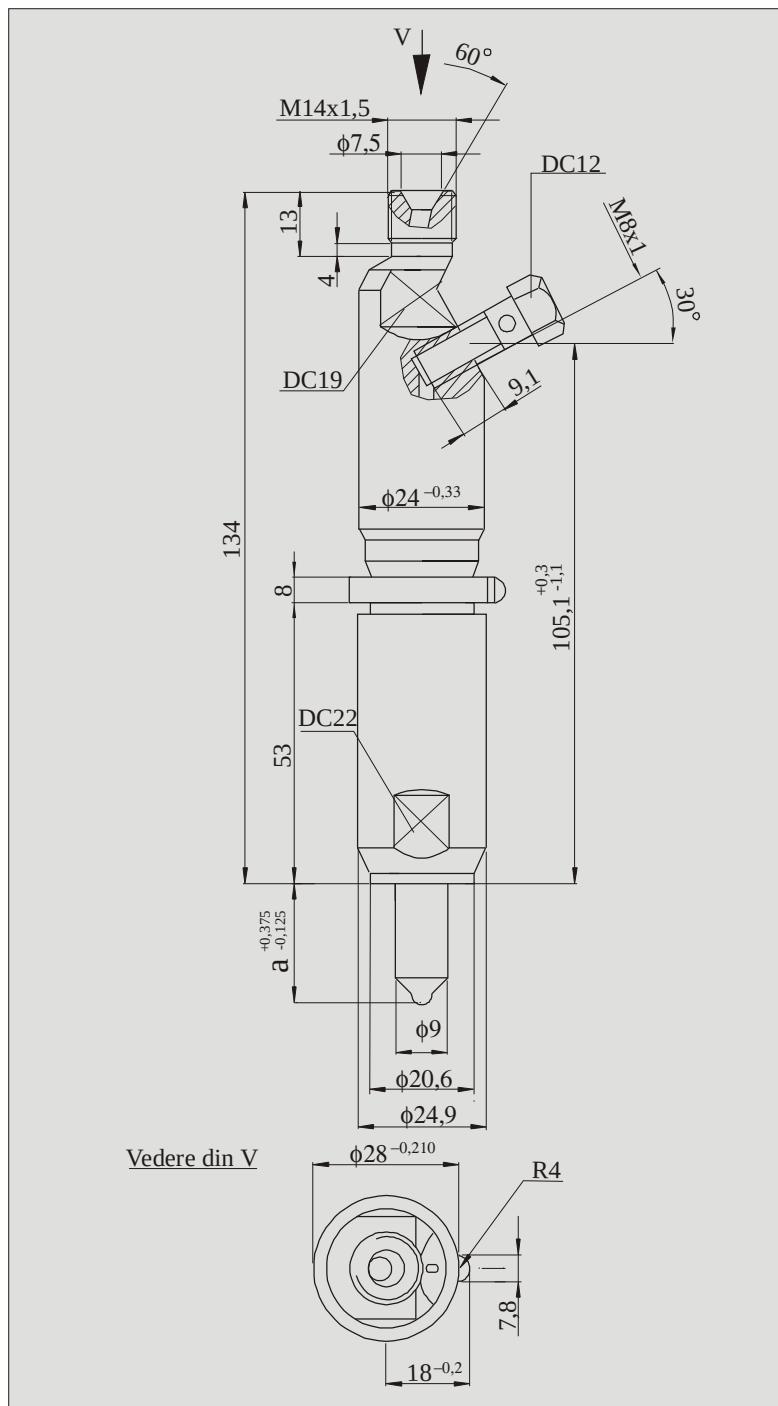
Injectors with fastening by threaded sleeve, reduced weight, type RO - KDAL...S. by eliminating the gas excess throught an sleeve - bolt.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure ⁺⁸	Main use engines
0 832 231 011	RO-KDAL 74 S 111	RO-DLLA 79 S 104	200	Mercedes (Iran)
	0 830 232 001	0 833 271 033	⁺⁸	
0 832 231 010	RO-KDAL 74 S 111	RO-DLLA 150 S 179	175	
	0 830 232 001	0 833 271 054	⁺⁸	
0 832 231 009	RO-KDAL 74 S 111	RO-DLLA 150 S 99	200	
	0 830 232 001	0 833 271 030	⁺⁸	
0 832 231 008	RO-KDAL 74 S 111	RO-DLLA 150 S 98	175	
	0 830 232 001	0 833 271 029		

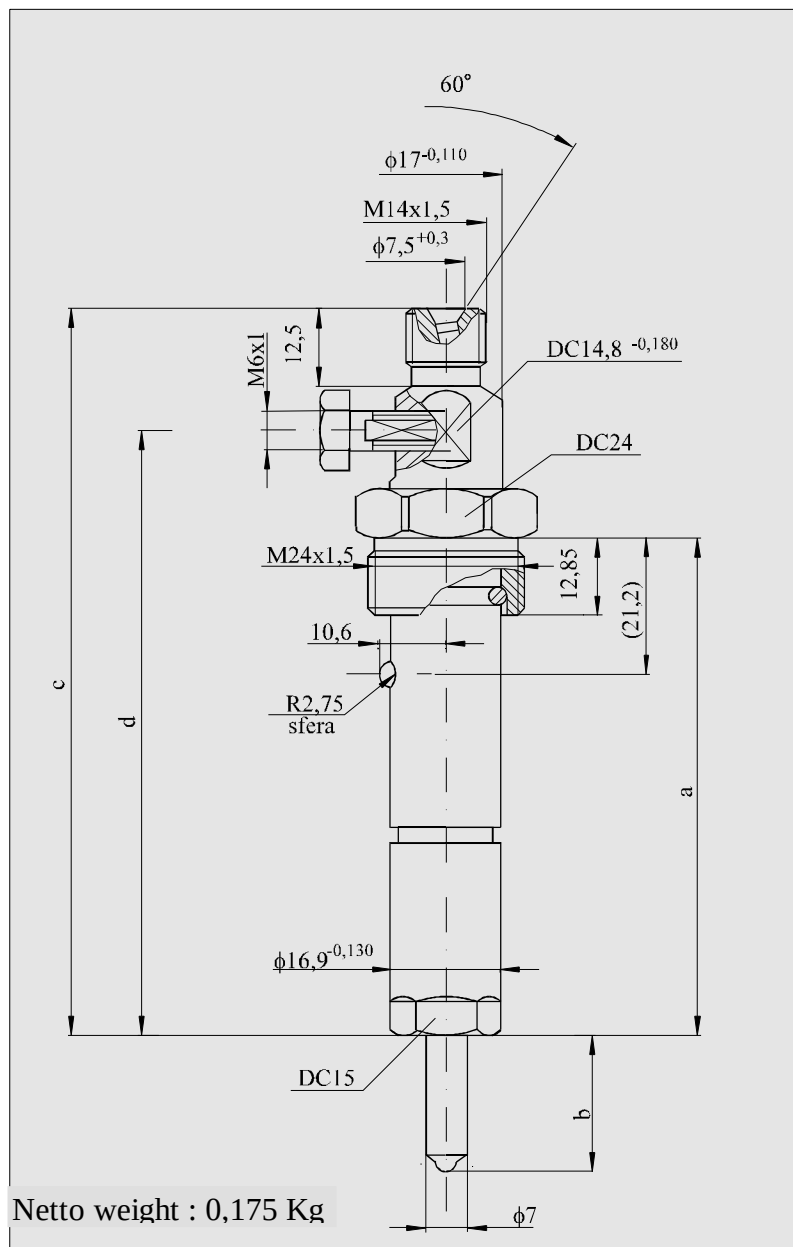
C.2.3. Injectoare cu fixare cu bucsa filetata, cu masa redusa, tip. RO -KDAL...S.cu eliminarea surplusului de motorina prin bulon racord.

Injectors with fastening by threaded sleeve, reduced weight, type RO - KDAL...S. by eliminating the gas excess throught an sleeve - bolt.



Simbol	Simbol / item Injector	Simbol / Item Nozzle	Opening pressure	Main use engines
0 832 231 019	RO-KDAL 74 S 118	RO-DLLA 150S 99	200	
	0 830 232 002	0 833 271 030	+5	
0 832 231 016	RO-KDAL 74 S 118	RO-DLLA 150 S 179	175	
	0 830 232 002	0 833 271 054	+8	
0 832 231 015	RO-KDAL 74 S 118	DLLA 134S 183	240	
	0 830 232 002			

C.3. Inietoare cu fixare cu bucle filetata cu masa redusa tip RO - KDAL...P..
cu eliminarea surplusului de motorina prin bulon racord.
Injectors with fastening by threaded sleeve, with leight weight, type RDAL...P...
by eliminating the gas-oil excess through an sleeve-bolt



Simbol	Simbol / item Injector	Simbol / Item Nozzle	a	b	c	d	Opening pressure	Main use engines
0 832 133 003	RO-KDAL 84 P100 0 830 230 001	-	84	23	125,5	105,5	240 ⁺⁵	392-L4-DT ⁺⁵
0 832 133 004	RO-KDAL 79 P102 0 830 230 002	RO-DLLA 145 P 161 0 833 171 006	75	21,6	116,3	96,3	250 ⁺⁵	392-L4 D4 AVL
0 832 133 005	RO-KDAL 64 P 104 0 830 229 001	RO-DLLA 145 P 161 0 833 171 006	64	21,1	101,3	81,3	240	D 2900