



Globally reliable

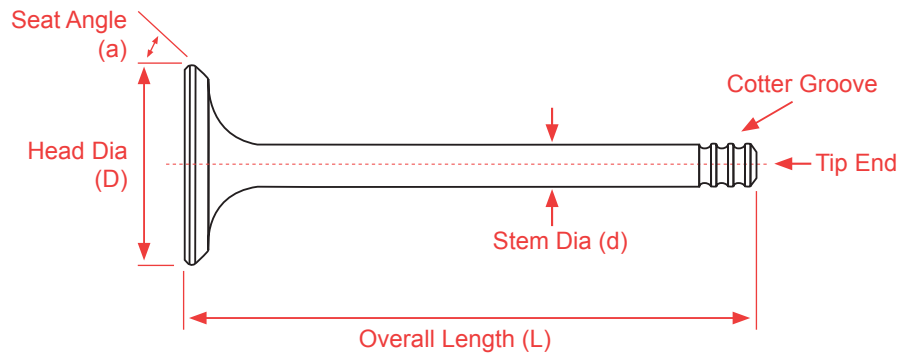
NEWSLETTER V0/6



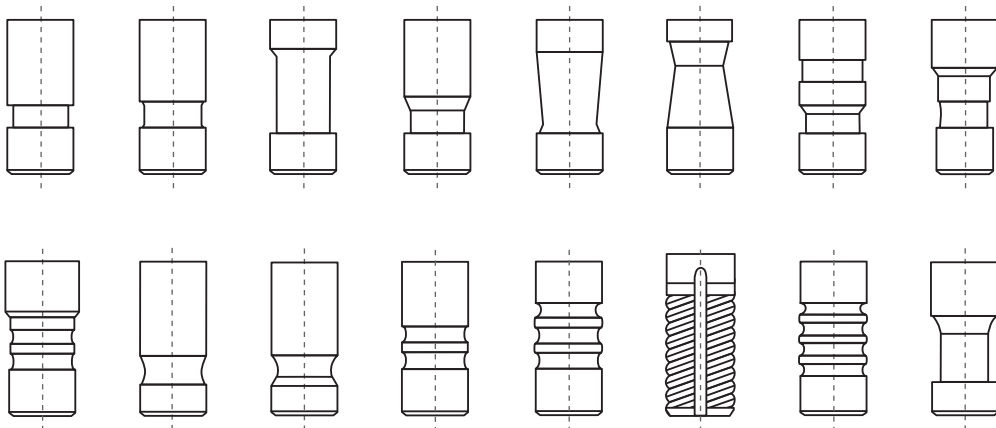
Process Codes








S	High alloyed chrome-silicium steel
A	Austenitic Cr-Ni-Mn steel for high stressed exhaust valves
A/S	Bimetal material
CR	Chromium plated stem
NT	Nitrided valves
S/H	Seat hardened
S/S	Seat stellite
TH	Tip and cotter groove hardened
H	Tip hardened
TW	Tip welded

Dimensions



Cotter Groove Design


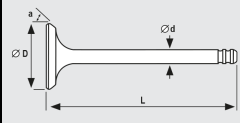











	ccm 						IN/EX	QTY	Info	Pos.	
M42 B18 (184S1)	1796	4	100-103 KW 136-140 PS	3 (E30/36) 318 i, 318 is	09/89 - 12/95	84,00	147 007 0009 00 148 007 0006 00	IN EX	8 8		1
M44 B19 (194S1)	1895	4	103 KW 140 PS	3 (E36) 318 is	09/95 - 09/99	85,00	147 007 0009 00 148 007 0006 00	IN EX	8 8		1
M52 B25 (256S3), M52 B25 (256S4)	2494	6	120-125 KW 163-170 PS	3 (E36) 323 i, 323 ti 3 (E46) 323 i, 323 Ci 5 (E39) 523 i	05/95 - 08/00 03/98 - 12/00 09/95 - 08/00	84,00	147 007 0009 01 148 007 0006 01	IN EX	12 12		2
M52 B28 (286S1), M52 B28 (286S2)	2793	6	142-143 KW 193-194 PS	3 (E36) 328 i 3 (E46) 328 i 5 (E39) 528 i 7 (E38) 728 i, iL, 728i X Z3 (E36) 2.8 i	01/95 - 11/99 02/98 - 06/00 09/95 - 08/00 08/95 - 11/01 01/96 - 07/00	84,00	147 007 0009 01 148 007 0006 01	IN EX	12 12		2
M54 B25 (256S5)	2494	6	137-141 KW 186-192 PS	3 (E46) 325 Ci, 325 i, 325 xi, 325 ti 5 (E39) 525 i 5 (E60) 525 i 5 (E61) 525 i X3 (E83) 2.5 i Z3 (E36) 2.5 i Z4 (E85) 2.5 i Z4 (E86) 2.5 i	09/00 - 08/06 09/00 - 06/03 09/03 - 02/05 06/04 - 12/10 03/04 - 07/06 10/00 - 02/02 12/02 - 12/05 11/06 - 04/08	84,00	147 007 0009 01 148 007 0006 01	IN EX	12 12		2
M54 B30 (306S3)	2979	6	168-170 KW 228-231 PS	3 (E46) 330 i, 330 Ci, 330 Xi	06/00 - 08/06	84,00	147 007 0009 01 148 007 0006 01	IN EX	12 12		2
M54 B30 (306S3)	2979	6	170 KW 231 PS	5 (E39) 530 i 5 (E60) 530 i 7 (E65, E66, E67) 730 i, Li X3 (E83) 3.0 i xDrive X5 (E53) 3.0 i Z3 (E36) 3.0 i Z4 (E85) 3.0 i	09/00 - 12/03 12/01 - 02/05 03/03 - 07/08 09/03 - 07/06 04/00 - 10/06 06/00 - 06/03 12/02 - 12/05	84,00	147 007 0009 01 148 007 0006 01	IN EX	12 12		2



BMW

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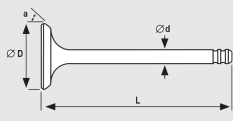




	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 007 0009 00	L = 106,10 D = 32,90 d = 6,00 a = 45°	S				TH
	EX	148 007 0006 00	L = 105,60 D = 30,50 d = 6,00 a = 45°		CR			
2								
	IN	147 007 0009 01	L = 106,10 D = 32,90 d = 6,00 a = 45°	S				TH
	EX	148 007 0006 01	L = 105,60 D = 30,50 d = 6,00 a = 45°		CR			








							IN/EX	QTY	Info	Pos.	
KFU (ET3J4)	1360	4	65 KW 88 PS	C2 1.4 16V C3 I 1.4 16V C4 I 1.4 16V	06/06 - 12/03 - 11/04 - 07711	75,00	147 037 0021 00 148 037 0022 00	IN EX	8 8		1
YHR (DV5RUCd)	1499	4	75 KW 102 PS	JUMPY 1.5 BlueHDi 100 SPACETOURER 1.5 BlueHDi 100	06/18 - 06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHS (DV5RCE)	1499	4	81 KW 110 PS	C3 AIRCROSS II 1.5 BlueHDi 110	10/20 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHV (DV5RUC)	1499	4	88 KW 120 PS	JUMPY 1.5 BlueHDi 120 SPACETOURER 1.5 BlueHDi 120	06/18 - 06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHW (DV5RE)	1499	4	55 KW 75 PS	BERLINGO 1.5 BlueHDi 75	06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHX (DV5RC)	1499	4	88 KW 120 PS	C3 AIRCROSS II 1.5 BlueHDi 120 C4 CACTUS 1.5 BlueHDi 120	08/18 - 09/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHY (DV5RD)	1499	4	75 KW 102 PS	BERLINGO 1.5 BlueHDi 100 C3 AIRCROSS II 1.5 BlueHDi 100 C3 III 1.5 BlueHDi 100 C4 CACTUS 1.5 BlueHDi 100 C-ELYSEE 1.5 BlueHDi 100	06/18 - 08/18 - 05/18 - 06/18 - 05/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHZ (DV5RC)	1499	4	96 KW 131 PS	BERLINGO 1.5 BlueHDi 130 C4 III 1.5 BlueHDi 130 C4 SPACETOURER 1.5 BlueHDi 130 C5 AIRCROSS 1.5 BlueHDi 130 GRAND C4 SPACETOURER 1.5 BlueHDi 130	06/18 - 10/20 - 05/18 - 11/18 - 05/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2


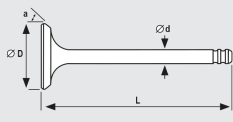











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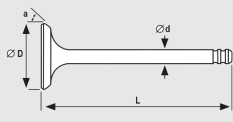
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	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0021 00	L = 100,80 D = 28,30 d = 5,48 a = 45°	S				TH
	EX	148 037 0022 00	L = 100,80 D = 24,30 d = 5,49 a = 45°	A	CR			
2								
	IN	147 037 0028 00	L = 95,30 D = 25,30 d = 5,50 a = 45°	S	CR			TH
	EX	148 037 0029 00	L = 94,80 D = 22,00 d = 5,50 a = 45°	A/S	CR		S/S	TH


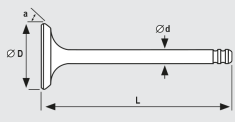


	ccm 						IN/EX	QTY	Info	Pos.
F14D3	1399 4	70 KW 95 PS	KALOS, LACETTI 1.4 16V	06/02 -	77,90	147 309 0008 00 148 309 0008 00	IN EX	8 8		1








	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 309 0008 00	L = 101,60 D = 28,50 d = 6,00 a = 45°	S	NT			H
	EX	148 309 0008 00	L = 101,25 D = 27,30 d = 6,00 a = 45°	A/S	NT			H


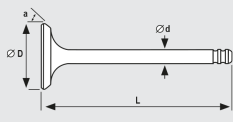


							IN/EX	QTY	Info	Pos.	
OM 401.905/.907/.909/.912/.914/.91	9570	6	141-144 KW 192-196 PS	NG Models, O 303	08/73 -	125,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 402.906/.907/.910/.911/.912/.91	12760	8	176-188 KW 240-256 PS	NG Models, O 303	08/73 -	125,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 403.916/.931	15950	10	235 KW 320 PS	NG Models	08/73 -	125,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 407.905/.907/.909/.913/.915	11413	6	132-206 KW 180-280 PS	O 305, O 307	04/73 -	125,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 421.905/.906/.908/.910/.951	10964	6	159-184 KW 216-250 PS	NG Models, O 303	11/64 -	128,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 422.905/.906/.907/.908/.909/.91	14618	8	184-276 KW 250-375 PS	NG Models, O 303	01/70 -	128,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 423.905/.907/.908/.909	18273	10	261 KW 355 PS	NG Models	08/73 -	128,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 427.905/.910/.911	11967	6	150-206 KW 204-280 PS	O 405	12/84 -	128,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 441.905/.908/.912/.913/.914/.91	11304	6	151-200 KW 205-272 PS	MK Models, SK Models	08/73 -	128,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 442.906/.906/.907/.909/.910/.91	15078	8	191-218 KW 260-296 PS	MK Models, SK Models	08/73 -	130,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1
OM 447.906/.908/.913	11967	6	150-184 KW 204-250 PS	O 405, O 407, O 408	12/84 -	128,00	147 100 0002 00 148 100 0001 00	IN EX	2 2		1








	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 100 0002 00	L = 142,50 D = 59,00 d = 12,00 a = 30°	A/S	CR			
	EX	148 100 0001 00	L = 142,50 D = 51,00 d = 12,00 a = 45°	A/S	CR			


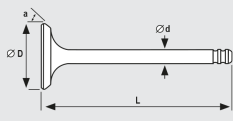
	ccm 						IN/EX	QTY	Info	Pos.
YHS (DV5RCE)	1499 4	81 KW 110 PS	DS 3 CROSSBACK 1.5 BlueHDi 110	01/21 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
YHY (DV5RD)	1499 4	75 KW 102 PS	DS 3 CROSSBACK 1.5 BlueHDi 100	10/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
YHZ (DV5RC)	1499 4	96 KW 131 PS	DS 7 Crossback 1.5 BlueHDi 130	09/17 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1








	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0028 00	L = 95,30 D = 25,30 d = 5,50 a = 45°	S	CR			TH
	EX	148 037 0029 00	L = 94,80 D = 22,00 d = 5,50 a = 45°	A/S	CR		S/S	TH

	ccm 						IN/EX	QTY	Info	Pos.
F1AE0481C	2286 4	81 KW 110 PS	DUCATO 2.3 JTD	04/02 -	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481D	2287 4	88 KW 120 PS	DUCATO 120 Multijet 2,3 D	07/06 -	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481N	2287 4	96 KW 131 PS	DUCATO 130 Multijet 2,3 D	07/06 -	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 121 0000 00	L = 120,40 D = 30,00 d = 6,00 a = 45°	S	CR		S/H	TH
	EX	148 121 0000 00	L = 120,40 D = 30,00 d = 6,00 a = 45°	A/S	CR			TH

	ccm 						IN/EX	QTY	Info	Pos.
G4CS	2351 4	82-101 KW 111-137 PS	H-1 / STAREX 2.4 H100 2.4 TD	06/97 - 07/93 - 12/04	86,50	147 087 0018 00 148 087 0017 00	IN EX	4 4		1
G4JS	2351 4	99-107 KW 135-146 PS	H-1 / STAREX 2.4 SANTA FÉ I 2.4 16V	06/01 - 04/04 08/00 - 03/06	86,50	147 087 0018 01 148 087 0017 01	IN EX	8 8		2


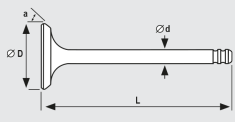


	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 087 0018 00	L = 109,50 D = 34,00 d = 6,50 a = 45°		NT			
	EX	148 087 0017 00	L = 109,70 D = 30,50 d = 6,50 a = 45°		NT			
2								
	IN	147 087 0018 01	L = 109,50 D = 34,00 d = 6,50 a = 45°		NT			
	EX	148 087 0017 01	L = 109,70 D = 30,50 d = 6,50 a = 45°		NT			








	ccm 						IN/EX	QTY	Info	Pos.
F1AE0481A	2287 4	70 KW 95 PS	DAILY III 29 L 10, 29 L 10 V, 35 C 10 V, 35 S 10 V, 35 C 10 V, 35 S 10 V, 40 C 10	09/02 - 07/07	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481B	2287 4	85 KW 116 PS	DAILY III 29 L 12, 29 L 12 V, 35 C 12, 35 S 12, 35 C 12 V, 35 S 12 V, 35 S 12, 35 C 12, 40 C 12	09/02 - 07/07	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481H	2287 4	100 KW 136 PS	DAILY IV 35S14 C, 35S14 C/P, 35S14 V, 35S14 V/P, 35C14 V, 35S14 K, 35S14 DK DAILY IV 35S14, 35S14 /P, 29L14, 29L14 C, 29L14 C/P, 29L14 V, 29L14 V/P	05/06 - 08/11 05/06 - 08/11	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481M	2287 4	100 KW 136 PS	DAILY III 29 L 14, 35 C 14, 35 S 14	01/05 - 04/06	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481R	2287 4	85 KW 116 PS	DAILY IV 35C12, 35S12, 35C12 V, 35C12 V/P, 35S12 V, 35S12 V/P	05/06 - 08/11	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1
F1AE0481V	2287 4	93 KW 126 PS	DAILY IV 35C13 K, 35C13 DK, 35S13 K, 35S13 DK DAILY IV 35C13 V, 35C13 V/P, 35S13 V, 35S13 V/P DAILY IV 40C13 V, 40C13 V/P	07/07 - 08/11 07/07 - 08/11 07/07 - 08/11	88,00	147 121 0000 00 148 121 0000 00	IN EX	8 8		1



IVECO

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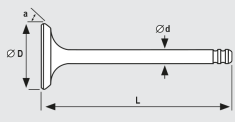


	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 121 0000 00	L = 120,40 D = 30,00 d = 6,00 a = 45°	S	CR		S/H	TH
	EX	148 121 0000 00	L = 120,40 D = 30,00 d = 6,00 a = 45°	A/S	CR			TH








	ccm 						IN/EX	QTY	Info	Pos.	
4G18	1584	4	72-81 KW 98-110 PS	LANCER VII, SPACE STAR 1.6 16V	06/00 - 12/13	76,00	147 088 0002 00 148 088 0002 00	IN EX	8 8		1



mitsubishi

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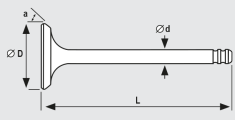
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1								
	IN	147 088 0002 00	L = 111,75 D = 29,00 d = 5,50 a = 45°	S	NT			H
	EX	148 088 0002 00	L = 114,65 D = 25,50 d = 5,50 a = 45°	A/S	NT			H








	ccm 						IN/EX	QTY	Info	Pos.	
QG18DE	1769	4	84-88 KW 114-120 PS	ALMERA II / PRIMERA 1.8 16V	08/99 -	80,00	147 089 0003 00 148 089 0003 00	IN EX	8 8		1


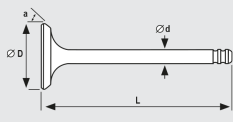











NISSAN


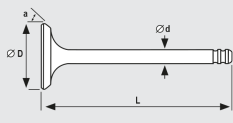




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	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 089 0003 00	L = 94,30 D = 30,00 d = 5,50 a = 45°		NT			
	EX	148 089 0003 00	L = 94,70 D = 25,00 d = 5,50 a = 45°		NT			


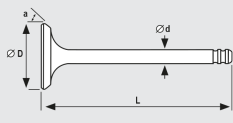



	ccm 						IN/EX	QTY	Info	Pos.	
D 15 DT (DV5RD)	1499	4	75 KW 102 PS	COMBO 1.5 D CORSA F1.5 D CROSSLAND X / CROSSLAND 1.5 Turbo D GRANDLAND X 1.5 Turbo D	06/18 - 07/19 - 06/18 - 06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
D 15 DT (DV5RUCD)	1499	4	75 KW 102 PS	VIVARO C 1.5 D ZAFIRA LIFE 1.5 D	03/19 - 03/19 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
D 15 DTH (DV5RC)	1499	4	96 KW 131 PS	COMBO 1.5 D GRANDLAND X 1.5 Turbo D	06/18 - 04/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
D 15 DTH (DV5RUC)	1499	4	88 KW 120 PS	VIVARO C 1.5 D ZAFIRA LIFE 1.5 D	03/19 - 03/19 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
D 15 DTL (DV5RE)	1499	4	56 KW 76 PS	COMBO 1.5 D	06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0028 00	L = 95,30 D = 25,30 d = 5,50 a = 45°	S	CR			TH
	EX	148 037 0029 00	L = 94,80 D = 22,00 d = 5,50 a = 45°	A/S	CR		S/S	TH

	ccm 						IN/EX	QTY	Info	Pos.
KFU (ET3J4)	1360	4	65 KW 88 PS 1007 1.4 16V 206 1.4 16V 207 1.4 16V 307 1.4 16V	10/05 - 10/03 - 02/06 - 10/13 11/03 - 07707	75,00	147 037 0021 00 148 037 0022 00	IN EX	8 8		1
YHR (DV5RUCd)	1499	4	75 KW 102 PS EXPERT 1.5 BlueHDi 100 TRAVELLER 1.5 BlueHDi 100	06/18 - 06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHS (DV5RCE)	1499	4	81 KW 110 PS 2008 II 1.5 BlueHDi 110	01/21 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHV (DV5RUC)	1499	4	88 KW 120 PS EXPERT 1.5 BlueHDi 120 TRAVELLER 1.5 BlueHDi 120	06/18 - 06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHW (DV5RE)	1499	4	55 KW 75 PS PARTNER 1.5 BlueHDi 75 RIFTER 1.5 BlueHDi 75	07/19 - 09/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHX (DV5RC)	1499	4	88 KW 120 PS 2008 I 1.5 BlueHDi 120	05/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHY (DV5RD)	1499	4	75 KW 102 PS 2008 I + II 1.5 BlueHDi 100 208 I + II 1.5 BlueHDi 100 301 1.5 BlueHDi 100 308 II 1.5 BlueHDi 100 PARTNER 1.5 BlueHDi 100	05/18 - 05/18 - 05/18 - 04/18 - 07/19 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2
YHZ (DV5RC)	1499	4	96 KW 130 PS 2008 II 1.5 BlueHDi 130 208 II 1.5 BlueHDi 130 3008 1.5 BlueHDi 130 308 II 1.5 BlueHDi 130 5008 II 1.5 BlueHDi 130 508 II 1.5 BlueHDi 130 PARTNER 1.5 BlueHDi 130 RIFTER 1.5 BlueHDi 130	08/19 - 09/19 - 02/18 - 06/17 - 02/18 - 09/18 - 09/18 - 09/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		2

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0021 00	L = 100,80 D = 28,30 d = 5,48 a = 45°	S				TH
	EX	148 037 0022 00	L = 100,80 D = 24,30 d = 5,49 a = 45°	A	CR			
2								
	IN	147 037 0028 00	L = 95,30 D = 25,30 d = 5,50 a = 45°	S	CR			TH
	EX	148 037 0029 00	L = 94,80 D = 22,00 d = 5,50 a = 45°	A/S	CR		S/S	TH

	ccm 						IN/EX	QTY	Info	Pos.	
1Y	1626	4	51-55 KW 69-75 PS	HILUX IV Pick-up 1.6	11/83 - 09/87	86,00	147 096 0007 00 148 096 0016 00	IN EX	4 8		2
2Y	1812	4	55-65 KW 75-88 PS	CRESSIDA 1.8 DYNA 100 1.8 HIACE III 1.8 HILUX V 1.8 LITEACE 1.8	05/85 - 09/88 08/85 - 04/95 12/82 - 07/89 08/83 - 06/98 01/84 - 12/92	86,00	147 096 0007 00 148 096 0016 00	IN EX	4 8		2
3Y	1998	4	57-79 KW 78-107 PS	CRESSIDA 2.0 DYNA 2.0 HIACE III + IV 2.0 MODEL F 2.0	01/89 - 09/92 09/84 - 08/88 12/82 - 08/89 08/88 - 01/90	86,00	147 096 0007 00 148 096 0016 00	IN EX	4 8		2
4Y	2237	4	67-69 KW 92-94 PS	DYNA 200 2.2 HIACE III + IV 2.2 HILUX IV + V 2.2	10/93 - 07/01 08/86 - 08/95 08/83 - 09/96	91,00	147 096 0007 00 148 096 0016 00	IN EX	4 8		2
5WZ-HV (DV5RUC)	1499	4	88 KW 120 PS	PROACE VERSO 1.5 D4d	06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
5WZ-TV (DV5RUCD)	1499	4	75 KW 102 PS	PROACE VERSO 1.5 D4d	06/18 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
DV5RC	1499	4	96 KW 131 PS	PROACE CITY 1.5 D-4D 130	10/19 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
DV5RD	1499	4	75 KW 102 PS	PROACE CITY VERSO 1.5 D-4D 100	10/19 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1
DV5RE	1499	4	55 KW 75 PS	PROACE CITY 1.5 D-4D 75	10/19 -	75,00	147 037 0028 00 148 037 0029 00	IN EX	8 8		1

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0028 00	L = 95,30 D = 25,30 d = 5,50 a = 45°	S	CR			TH
	EX	148 037 0029 00	L = 94,80 D = 22,00 d = 5,50 a = 45°	A/S	CR		S/S	TH
2								
	IN	147 096 0007 00	L = 108,30 D = 40,00 d = 7,97 a = 45°	S	NT			H
	EX	148 096 0016 00	L = 108,60 D = 36,00 d = 8,00 a = 45°		NT			