



Globally reliable

NEWSLETTER V2

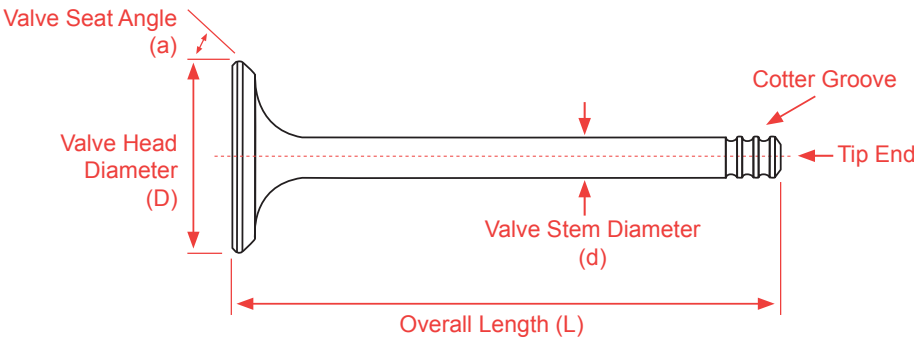


Technical terms on the valve

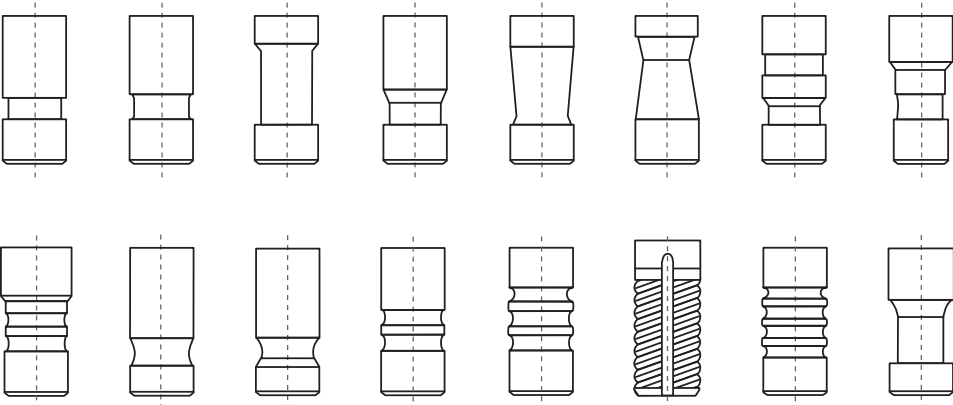
Material Specification






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

Main Dimensions



Cotter Groove Design


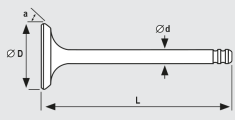










	ccm					IN/EX	QTY	Info	Pos.	
4HL (DW12C)	2179	4	150 KW 204 PS	C5 III 2.2 HDi 200	07/10 -	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8	1
4HN (DW12MTED4)	2179	4	115 KW 156 PS	C-CROSSER 2.2 HDi	02/07 -	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8	1
4HP (DW12BTED4)	2179	4	120 KW 163 PS	C5 III 2.2 HDi C6 2.2 HDi	05/06 - 06/07 -	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8	1
4HR (DW12BTED4)	2179	4	120 KW 163 PS	C5 II 2.2 HDi C8 2.2 HDi	05/06 - 12/11 06/07 -	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8	1
4HS (DW12BTED4)	2179	4	125 KW 170 PS	C5 III 2.2 HDi C6 2.2 HDi C8 2.2 HDi	02/08 - 12/11 06/06 - 12/12 06/06 - 12/12	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8	1
4HS (DW12BTED4), 4HT (DW12BTED4)	2179	4	125 KW 170 PS	C5 II 2.2 HDi C5 III Break 2.2 HDi C6 2.2 HDi C8 2.2 HDi	04/06 - 08/08 02/08 - 12/11 06/06 - 12/12 06/06 - 12/12	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8	1


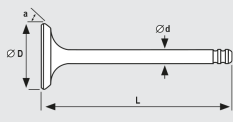










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	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH

	ccm 						IN/EX	QTY	Info	Pos.	
4HP, 4HR	2179	4	120 KW 163 PS	ULYSSE 2.2 JTD	03/08 - 06/11	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1
4HS, 4HT (DW12BTED4)	2179	4	125 KW 170 PS	ULYSSE 2.2 D Multijet	03/08 - 06/11	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1


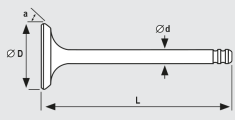

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH








	ccm 						IN/EX	QTY	Info	Pos.	
Q4BA	2179	4	129 KW 175 PS	Mondeo IV 2.2 TDCI	03/08 - 10/10	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1



FORD

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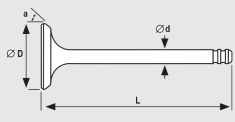


	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH








	ccm 						IN/EX	QTY	Info	Pos.	
4JJ1-TC, 4JJ1-TCS, 4JJ1-TCX, 4JJ1-X	2999	4	107-130 KW 146-177 PS	D-MAX I+II 3.0 CRDi KB 3.0 D-TEQ 4WD MU-X SUV 3.0 CRDi	01/04 - 08/10 - 02/13 -	95,40	147 079 0000 00 148 079 0000 00	IN EX	8 8		1
4JK1-TC, 4JK1-TCX	2499	4	56-100 KW 76-136 PS	D-MAX I+II 2.5 CRDi KB VI KB250 D-TEQ MU-X SUV 2.5 CRDi	10/06 - 11/07 - 10/18 11/13 -	95,40	147 079 0000 00 148 079 0000 00	IN EX	8 8		1


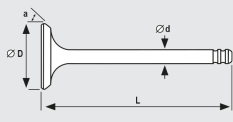










ISUZU

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	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1	IN	147 079 0000 00	L = 107,60 D = 33,00 d = 7,00 a = 45°	S	CR			H
	EX	148 079 0000 00	L = 107,50 D = 30,00 d = 7,00 a = 45°	A	CR			

	ccm 						IN/EX	QTY	Info	Pos.
224DT(DW12C)	2179 4	120-147 KW 163-200 PS	XF I 2.2 D XF SPORTBRAKE 2.2 D	04/11 - 04/15 09/12 - 04/14	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1


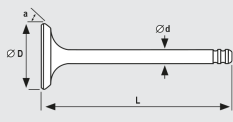

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH








	ccm 						IN/EX	QTY	Info	Pos.	
4HP, 4HR	2179	4	120 KW 163 PS	PHEDRA 2.2 JTD	04/06 - 11/10	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1
4HS, 4HT	2179	4	125 KW 170 PS	PHEDRA 2.2 D Multijet	03/08 - 11/10	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1



LANCIA

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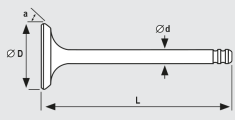

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH








	ccm 						IN/EX	QTY	Info	Pos.
224DT(DW12BTED4)	2179 4	110-140 KW 150-190 PS	DISCOVERY SPORT 2.2 D 4x4 FREELANDER 2 2.2 SD4 4x4 RANGE ROVER EVOQUE 2.2 D 4x4	09/14 - 10/06 - 10/14 06/11 - 12/19	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1


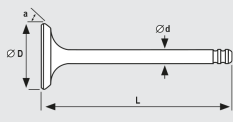











LAND ROVER

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	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH

	ccm 						IN/EX	QTY	Info	Pos.	
ZJ-VE	1349	4	55-67 KW 75-91 PS	MAZDA 2 1.3 MAZDA 3 1.3	04/03 - 06/15 10/03 - 06/09	74,00	147 085 0002 00 148 085 0002 00	IN EX	8 8		1


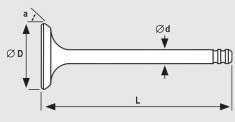

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 085 0002 00	L = 98,30 D = 27,70 d = 5,50 a = 45°	S	NT			H
	EX	148 085 0002 00	L = 98,80 D = 24,00 d = 5,50 a = 45°	A	NT			








	ccm 						IN/EX	QTY	Info	Pos.	
4HN	2179	4	115 KW 156 PS	OUTLANDER II 2.2 DI-D 4WD	08/17 - 11/12	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1


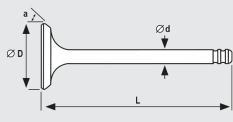











MITSUBISHI


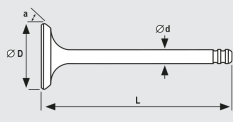

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	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH

	ccm 						IN/EX	QTY	Info	Pos.	
CR12DE	1240	4	48-81 KW 65-110 PS	MICRA III 1.2 16V	01/03 - 06/10	71,00	147 089 0008 00 148 089 0008 00	IN EX	8 8		1
CR14DE	1386	4	65-72 KW 88-98 PS	MICRA III 1.4 16V	01/03 -	73,00	147 089 0008 00 148 089 0008 00	IN EX	8 8		1

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 089 0008 00	L = 97,80 D = 27,30 d = 5,50 a = 45°	S	NT			H
	EX	148 089 0008 00	L = 97,80 D = 22,50 d = 5,50 a = 45°	A	NT			

	ccm 						IN/EX	QTY	Info	Pos.	
4HL (DW12C)	2179	4	150 KW 204 PS	508 2.2 HDi	11/11 -	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1
4HN (DW12MTED4)	2179	4	115 KW 156 PS	4007 2.2 HDi	02/07 - 03/13	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1
4HP (DW12BTED4), 4HR (DW12BTED4)	2179	4	120 KW 163 PS	407 2.2 HDi 807 2.2 HDi	03/06 - 12/10 06/06 -	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1
4HS (DW12BTED4), 4HT (DW12BTED4)	2179	4	125 KW 170 PS	407 2.2 HDi 170 607 2.2 HDi 807 2.2 HDi	03/06 - 12/10 05/06 - 06/10 06/06 - 06/10	85,00	147 037 0030 00 148 037 0031 00	IN EX	8 8		1

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0030 00	L = 95,80 D = 27,25 d = 6,00 a = 45°	S	CR			
	EX	148 037 0031 00	L = 95,00 D = 25,20 d = 6,00 a = 45°	A/S	CR		S/S	TH