

VENTILE
SOUPAPES
VÁLVULAS



Globally reliable



VALVES

START UP ↑



Valves

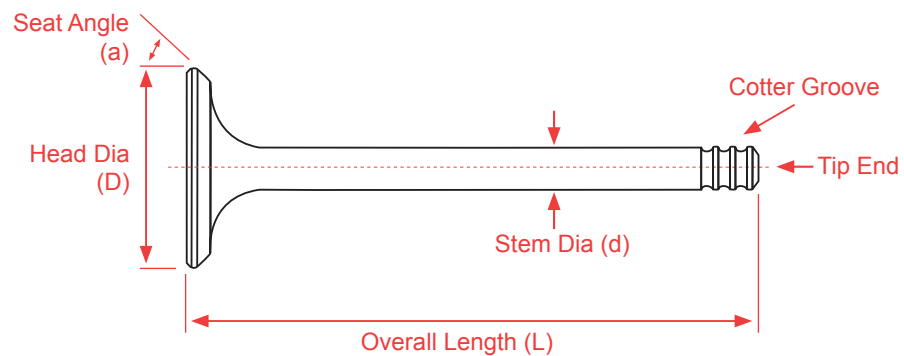
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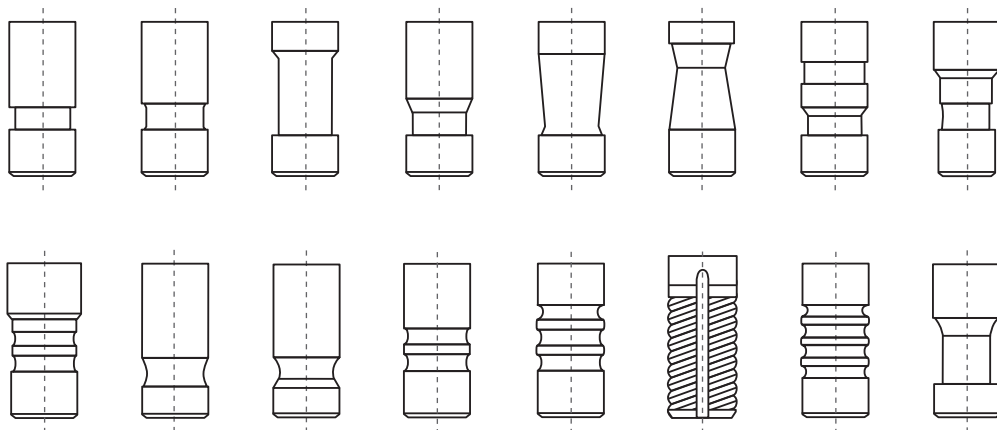
Process Codes

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 stellited
TH	Tip and cotter groove hardened
H	Tip hardened
TW	Tip welded

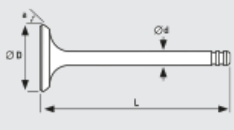
Dimensions



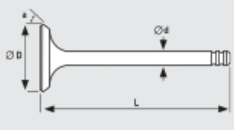
Cotter Groove Design



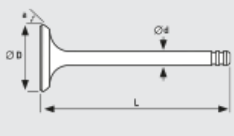
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939 A4.000	1796	4	103 KW 140 PS	159 1.8 MPI	03/07 - 11/11	80,50	147 309 0001 00 148 309 0001 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 309 0001 00	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	148 309 0001 00	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH

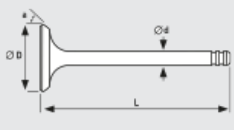
	ccm							IN/EX	QTY	Info	Pos.
AUA, BBY	1390	4	55 KW 75 PS	A2 1.4	02/00 - 08/05	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1
BAD	1598	4	81 KW 110 PS	A2 1.6 FSI	05/02 - 08/05	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1
BAG, BLF, BLP	1598	4	85 KW 115 PS	A3 1.6 FSI A3 Sportback 1.6 FSI	08/03 - 09/07 09/04 - 09/07	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1
CAXA, CNVA	1390	4	90 KW 122 PS	A1 1.4 TFSI A1 Sportback 1.4 TFSI	05/10 - 11/11 -	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1
CAXC, CMSA	1390	4	92 KW 125 PS	A3 / S3 1.4 TFSI A3 1.4 TFSI A3 Cabriolet 1.4 TFSI A3 Sportback 1.4 TFSI	09/09 - 08/12 09/07 - 08/12 02/11 - 05/13 09/07 - 03/13	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 050 0001 00	L = 101,00 D = 29,50 d = 5,98 a = 45°	S				TH
	EX	148 050 0001 00	L = 100,60 D = 26,00 d = 5,97 a = 45°	A/S				TH

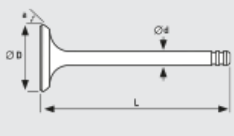
	ccm							IN/EX	QTY	Info	Pos.
HMU (EB2D)	1199	3	55 KW 75 PS	C4 CACTUS 1.2 VTi 75	09/14- -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMY (EB2M)	1199	3	53 KW 72 PS	C-ELYSEE 1.2 VTi 72	11/12- -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	C1 II 1.2 VTi 82	04/14- -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	C-ELYSEE 1.2 VTi 82	12/14- -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	C4 CACTUS 1.2 VTi 82	09/14- -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	DS3 1.2 VTi 82	01/13-03/15 -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	C3 II 1.2 VTi 82	06/12- -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0001 00	L = 92,55 D = 29,15 d = 4,98 a = 45°	S				H
	EX	148 037 0001 00	L = 91,85 D = 26,00 d = 4,97 a = 45°	A	NT			

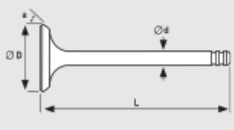
	ccm						IN/EX	QTY	Info	Pos.	
B12D1, LMU	1206	4	53-62 KW 72-84 PS	AVEO 1.2 SPARK 1.2	01/08 - 03/10 -	69,70	147 309 0002 00 148 309 0002 00	IN EX	8 8		2
F14D3, L14	1399	4	69 KW 94 PS	AVEO 1.4 LACETTI 1.4 16V	03/06 - 12/07 03/05 -	77,90	147 309 0003 00 148 309 0003 00	IN EX	8 8		3
F16D3, LXT	1598	4	78 KW 106 PS	OPTRA 1.6	08/03 -	79,00	147 309 0003 00 148 309 0003 00	IN EX	8 8		3
F16D3, LXT	1598	4	77 KW 105 PS	AVEO 1.6 NUBIRA 1.6	09/03 - 01/10 -	79,00	147 309 0003 00 148 309 0003 00	IN EX	8 8		3
F16D3, LXT	1598	4	80 KW 109 PS	LACETTI 1.6	03/05 -	79,00	147 309 0003 00 148 309 0003 00	IN EX	8 8		3
L95	1399	4	69 KW 44 PS	AVEO 1.4 CNG	01/08 -	77,90	147 309 0003 00 148 309 0003 00	IN EX	8 8		3
M13A	1328	4	61 KW 83 PS	CRUZE 1.3	07/00 - 09/08	78,00	147 094 0005 00 148 094 0005 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 094 0005 00	L = 100,70 D = 30,00 d = 5,48 a = 45°	S	NT			H
	EX	148 094 0005 00	L = 99,00 D = 25,00 d = 5,46 a = 45°	A	NT		S/S	
2								
	IN	147 309 0002 00	L = 99,20 D = 25,90 d = 4,98 a = 45°	S	NT			H
	EX	148 309 0002 00	L = 100,00 D = 23,50 d = 4,97 a = 45°	A	NT			
3								
	IN	147 309 0003 00	L = 101,65 D = 28,55 d = 5,98 a = 45°	S	NT			H
	EX	148 309 0003 00	L = 101,25 D = 27,30 d = 5,95 a = 45°	A	CR			

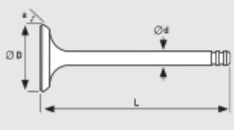
	ccm						IN/EX	QTY	Info	Pos.
OM 616.910	2404	4	48-53 KW 65-72 PS	T2/L L 407 D	01/75 - 12/88	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.911, OM 616.932	2404	4	38 KW 52 PS	UNIMOG U 52, U 60, U 600, U 600L UNIMOG U 60T, U 600T	01/77 - 05/88 01/77 - 05/88	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.912	2399	4	48-53 KW 65-72 PS	(S123, W123) 240 T D	02/76 - 12/85	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.913, OM 616.939	2398	4	53 KW 72 PS	T1/TN 407 D	07/81 - 01/89	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.914	2399	4	53 KW 72 PS	T2/LN1 507 D	04/86 - 04/89	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.916	2404	4	48 KW 65 PS	/8 (W115) 240 D	08/73 - 01/77	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.917, OM 616.934	2399	4	48 KW 65 PS	T1 (601) 207 D 2.4	01/77 - 12/82	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.936	2399	4	53 KW 72 PS	G-Klasse (W460) 240 GD	03/79 - 08/87	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.937, OM 616.939	2399	4	48-53 KW 65-72 PS	T1 (601) 207 D 2.4 T1 (601, 611) 407 D 2.4 T1 (602) 307 D 2.4	06/82 - 01/90 04/81 - 07/82 04/77 - 01/90	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 616.942, OM 616.943	2399	4	38 KW 52 PS	UNIMOG U 600 UNIMOG U 650, U 650L	05/88 - 05/88 -	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	1
OM 617.910	2998	5	59 KW 80 PS	/8 (W115) 240 D 3.0	08/74 - 11/76	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	Please order 56/57-1002010 2
OM 617.912	2998	5	59-65 KW 80-88 PS	(S123) 300 T D (W123) 300 D	09/77 - 11/85 02/76 - 11/85	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	Please order 56/57-1002010 2
OM 617.913	2998	5	65 KW 88 PS	T1 (601, 611) 209 D 2.9 T1 (602) 309 D 3.0 T1/TN 409 D	12/82 - 01/90 10/82 - 01/90 04/82 - 01/89	91,00	147 010 0001 00 148 010 0001 00	IN EX	4 4	Please order 56/57-1002010 2
OM 617.931	2998	5	65 KW 88 PS	G-Klasse (W460) 300 GD	12/79 - 12/91	90,90	147 010 0001 00 148 010 0001 00	IN EX	4 4	Please order 56/57-1002010 2

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 010 0001 00	L = 131,40 D = 39,80 d = 9,94 a = 60°	S	CR			
	EX	148 010 0001 00	L = 131,00 D = 34,20 d = 9,94 a = 60°	A/S	CR			
2								
	IN	147 010 0001 00	L = 131,40 D = 39,80 d = 9,94 a = 60°	S	CR			
	EX	148 010 0001 00	L = 131,00 D = 34,20 d = 9,94 a = 60°	A/S	CR			

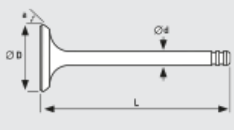
	ccm						IN/EX	QTY	Info	Pos.	
939 A4.000	1796	4	96-103 KW 131-140 PS	CROMA 1.8 16V	12/05 -	80,50	147 309 0001 00 148 309 0001 00	IN EX	8 8		2
M16A	1586	4	79-88 KW 107-120 PS	SEDICI 1.6 16V	06/06 - 10/14	78,00	147 094 0005 00 148 094 0005 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 094 0005 00	L = 100,70 D = 30,00 d = 5,48 a = 45°	S	NT			H
	EX	148 094 0005 00	L = 99,00 D = 25,00 d = 5,46 a = 45°	A	NT		S/S	
2								
	IN	147 309 0001 00	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	148 309 0001 00	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH

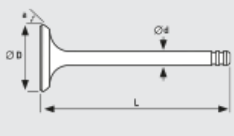
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QQDA, QQDB	1798	4	92 KW 125 PS	FOCUS C-MAX 1.8	04/04 - 03/07	83,00	147 021 0001 00 148 021 0001 00	IN EX	8 8		1
QQDA, QQDB, QQDC	1798	4	90-92 KW 122-125 PS	C-MAX 1.8	02/07 - 09/10	83,00	147 021 0001 00 148 021 0001 00	IN EX	8 8		1
QQDC	1798	4	90 KW 122 PS	FOCUS C-MAX 1.8	09/05 - 03/07	83,00	147 021 0001 00 148 021 0001 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 021 0001 00	L = 103,50 D = 32,50 d = 5,48 a = 45°	S	NT			H
	EX	148 021 0001 00	L = 104,50 D = 28,00 d = 5,48 a = 45°	A	NT			

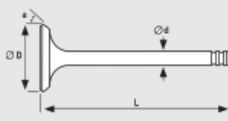
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JL4G18	1792	4	93-102 KW 127-139 PS	EMGRAND (GEELY) EC7 1.8	07/09 -	79,00	147 734 0001 00 148 734 0001 00	IN EX	8 8		1

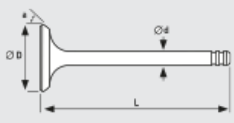
	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 734 0001 00	L = 88,80 D = 31,15 d = 5,48 a = 45°	S	NT			H
	EX	148 734 0001 00	L = 88,70 D = 25,90 d = 5,45 a = 45°	A	NT			

	ccm							IN/EX	QTY	Info	Pos.
GW4G15	1497	4	71-78 KW 97 PS	C30 1.5 FLORID 1.5	09/14 - 09/08 -	75,00	147 739 0002 00 148 739 0002 00	IN EX	8 8		1

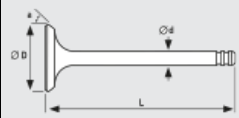
	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 739 0002 00	L = 89,20 D = 30,50 d = 4,98 a = 45°	S	NT			H
	EX	148 739 0002 00	L = 87,70 D = 25,50 d = 4,96 a = 45°	A	NT			

	ccm							IN/EX	QTY	Info	Pos.
D3EA	1493	3	60 KW 82 PS	ACCENT II 1.5 CRDi ELANTRA LAVITA 1.5 CRDi GETZ 1.5 CRDi MATRIX 1.5 CRDi VERNA II 1.5 CRDi	01/02 - 11/05 10/01 - 08/10 03/03 - 09/05 10/01 - 08/10 04/02 - 11/05	83,00	147 087 0002 00 148 087 0002 00	IN EX	8 8		2
D4BB	2607	4	57-79 KW 78-107 PS	H100 2.6 TD	07/93 - 12/07	91,10	147 087 0004 00 148 087 0004 00	IN EX	4 4		4
D4BB	2607	4	57-79 KW 78-107 PS	H-1 2.6 CRDi	10/97 - 12/07	91,10	147 087 0004 00 148 087 0004 00	IN EX	4 4	Till 07/01	5
D4CB	2497	4	81-125 KW 110-170 PS	H-1 2.5 CRDi H350 2.5 CRDi	07/01 - 04/15 -	91,00	147 087 0006 00 148 087 0006 00	IN EX	8 8		7
D4EA	1991	4	83-85 KW 113-115 PS	SANTA FÉ I 2.0 CRDi TRAJET 2.0 CRDi TUCSON 2.0 CRDi	04/01 - 12/12 04/01 - 07/08 08/04 - 03/10	83,00	147 087 0002 00 148 087 0002 00	IN EX	8 8		2
D4EA-F	1991	4	100-103 KW 136-140 PS	i30 2.0 CRDi SANTA FÉ I 2.0 CRDi SONATA V 2.0 CRDi TUCSON 2.0 CRDi	10/07 - 06/12 11/03 - 02/06 10/01 - 12/10 01/05 - 03/10	83,00	147 087 0002 00 148 087 0002 00	IN EX	8 8		2
D4EA-V	1991	4	92 KW 125 PS	SANTA FÉ I 2.0 CRDi 4x4 TRAJET 2.0 CRDi	08/03 - 03/06 08/05 - 07/08	83,00	147 087 0002 00 148 087 0002 00	IN EX	8 8		2
D4EB	2188	4	102-114 KW 139-155 PS	GRANDEUR 2.2 CRDi SANTA FÉ II 2.2 CRDi	06/06 - 12/11 03/06 - 12/12	87,00	147 087 0002 00 148 087 0002 00	IN EX	8 8		2
G4EA	1341	4	55-63 KW 75-86 PS	GETZ 1.3	09/02 - 06/09	71,50	147 087 0003 00 148 087 0003 00	IN EX	8 4		3
G4EH	1341	4	40-62 KW 54-84 PS	ACCENT 1.3 VERNA 1.3	10/94 - 01/00 10/94 - 01/00	71,50	147 087 0003 00 148 087 0003 00	IN EX	8 4		3
G4EK	1495	4	65-69 KW 88-94 PS	ACCENT 1.5 i 12V LANTRA II 1.5 12V S COUPE 1.5	10/94 - 01/00 12/96 - 10/00 04/92 - 05/96	75,50	147 087 0003 00 148 087 0003 00	IN EX	8 4		3
G4FA	1396	4	66-80 KW 90-109 PS	ACCENT IV 1.4 i20 1.4 i30 1.4 ix20 1.4	11/10 - 09/08 - 12/15 12/11 - 12/15 11/10 -	77,00	147 087 0001 00 148 087 0001 00	IN EX	8 8		1
G4FC	1591	4	84-93 KW 114-126 PS	ACCENT IV 1.6 ELANTRA 1.6 CVVT i20 1.6 i30 1.6 ix20 1.6	10/11 - 06/06 - 06/11 09/08 - 12/12 01/12 - 12/06 11/10 -	77,00	147 087 0001 00 148 087 0001 00	IN EX	8 8		1
G4FD	1591	4	97-103 KW 132-140 PS	i30 1.6 GDI i40 1.6 GDI ix35 1.6 TUCSON 1.6 GDI VELOSTER 1.6 GDI	12/11 - 12/16 07/11 - 11/10 - 06/15 - 03/11 -	77,00	147 087 0001 00 148 087 0001 00	IN EX	8 8		1
G4HC	999	4	40 KW 54 PS	ATOS 1.0 i ATOS PRIME 1.0 i	02/98 - 03/02 08/99 -	66,00	147 087 0005 00 148 087 0005 00	IN EX	8 4		6
G4HG	1086	4	45-51 KW 61-69 PS	ATOS PRIME (MX) 1.1 GETZ (TB) 1.1 i10 (PA) 1.1 SANTRO (MX) 1.1	09/05 - 05/02 - 01/11 12/07 - 11/10 04/05 - 05/05	67,00	147 087 0007 00 148 087 0007 00	IN EX	8 4		8

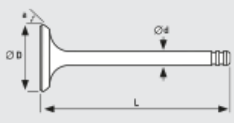
	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 087 0001 00	L = 93,20 D = 31,50 d = 5,48 a = 45°	S	NT			H
	EX	148 087 0001 00	L = 92,60 D = 26,00 d = 5,47 a = 45°	A	NT			
2								
	IN	147 087 0002 00	L = 95,75 D = 28,50 d = 5,95 a = 45°	S	NT			H
	EX	148 087 0002 00	L = 95,45 D = 24,40 d = 5,93 a = 45°	A/S	NT			H
3								
	IN	147 087 0003 00	L = 99,30 D = 27,40 d = 5,97 a = 45°	S	NT			H
	EX	148 087 0003 00	L = 98,50 D = 32,00 d = 5,95 a = 45°	A	NT			
4								
	IN	147 087 0004 00	L = 132,00 D = 42,00 d = 7,97 a = 45°	S	NT			H
	EX	148 087 0004 00	L = 132,00 D = 36,00 d = 7,94 a = 45°	A/S	NT			H
5								
	IN	147 087 0004 00	L = 132,00 D = 42,00 d = 7,97 a = 45°	S	NT			H
	EX	148 087 0004 00	L = 132,00 D = 36,00 d = 7,94 a = 45°	A/S	NT			H

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
6								
	IN	147 087 0005 00	L = 100,30 D = 23,00 d = 5,46 a = 45°	S	NT			H
	EX	148 087 0005 00	L = 100,10 D = 27,00 d = 5,44 a = 45°	A/S	NT			H
7								
	IN	147 087 0006 00	L = 110,60 D = 31,80 d = 6,99 a = 45°	S	NT			TH
	EX	148 087 0006 00	L = 110,55 D = 28,10 d = 6,95 a = 45°	A/S	NT			TH
8								
	IN	147 087 0007 00	L = 99,70 D = 23,55 d = 5,47 a = 45°	S	NT			H
	EX	148 087 0007 00	L = 99,20 D = 27,00 d = 5,47 a = 45°	A	NT			H, TW

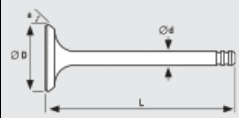
	ccm							IN/EX	QTY	Info	Pos.
A5D	1493	4	72 KW 98 PS	RIO 1.5 16V	08/00 - 02/05	75,50	147 053 0002 00 148 053 0002 00	IN EX	8 8		2
D4CB	2497	4	95-131 KW 129-178 PS	K2500 (SD) 2.5 CRDi SORENTO I (JC) 2.5 CRDi	01/10 - 09/06 - 08/09	91,00	147 087 0006 00 148 087 0006 00	IN EX	8 8		4
G4FA	1396	4	73-80 KW 10-109 PS	CEE'D 1.4 PRO CEE'D 1.4 CVVT RIO III 1.4 CVVT	10/10 - 12/12 02/08 - 09/12 09/11 -	77,00	147 087 0001 00 148 087 0001 00	IN EX	8 8		3
G4FC	1591	4	77-97 KW 105-132 PS	CARENS III 1.6 CVVT CEE'D 1.6 CVVT CERATO 1.6 PRO CEE'D 1.6 SOUL 1.6 CVVT VENGA 1.6 CVVT	08/09 - 12/06 - 05/06 - 02/08 - 02/09 - 02/10 -	77,00	147 087 0001 00 148 087 0001 00	IN EX	8 8		3
G4FD	1591	4	97-103 KW 132-140 PS	CARENS 1.6 GDi CEE'D 1.6 GDi K3 1.6 GDi RIO III 1.6 SOUL 1.6 GDi SPORTAGE 1.6 GDi	03/13 - 05/12 - 09/12 - 09/11 - 02/11 - 02/11 -	77,00	147 087 0001 00 148 087 0001 00	IN EX	8 8		3
G4HG	1086	4	48 KW 65 PS	Picanto (BA) 1.1	04/04 -	67,00	147 087 0007 00 148 087 0007 00	IN EX	8 4		5
J2	2665	4	59-61 KW 80-83 PS	BESTA 2.7 D K2700 2.7 D PREGIO (TB) 2.7 D	- - -	94,50	147 053 0001 00 148 053 0001 00	IN EX	4 4		1

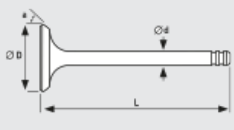
	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 053 0001 00	L = 112,80 D = 44,00 d = 8,48 a = 45°	S	NT			TH
	EX	148 053 0001 00	L = 112,85 D = 37,20 d = 8,47 a = 45°	A/S	NT		S/S	TH
2								
	IN	147 053 0002 00	L = 96,40 D = 27,80 d = 5,47 a = 45°	S	NT			H
	EX	148 053 0002 00	L = 95,50 D = 24,90 d = 5,45 a = 45°	A	NT			
3								
	IN	147 087 0001 00	L = 93,20 D = 31,50 d = 5,48 a = 45°	S	NT			H
	EX	148 087 0001 00	L = 92,60 D = 26,00 d = 5,47 a = 45°	A	NT			
4								
	IN	147 087 0006 00	L = 110,60 D = 31,80 d = 6,99 a = 45°	S	NT			TH
	EX	148 087 0006 00	L = 110,55 D = 28,10 d = 6,95 a = 45°	A/S	NT			TH
5								
	IN	147 087 0007 00	L = 99,70 D = 23,55 d = 5,47 a = 45°	S	NT			H
	EX	148 087 0007 00	L = 99,20 D = 27,00 d = 5,47 a = 45°	A	NT			H, TW

	ccm							IN/EX	QTY	Info	Pos.
LF479Q1	1342	4	65 KW 88 PS	LIFAN 520 1.3	07/06 - 12/15	1,00	147 768 0001 00 148 768 0001 00	IN EX	8 8		1

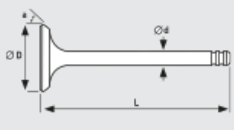
	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 768 0001 00	L = 88,00 D = 31,00 d = 5,96 a = 45°	S	NT			
	EX	148 768 0001 00	L = 88,00 D = 24,50 d = 5,96 a = 45°	S	NT			

	ccm						IN/EX	QTY	Info	Pos.
16 NZR	1598	4	55 KW 75 PS	ASTRA F 1.6	09/95 - 09/98	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
20 XE	1998	4	115 KW 156 PS	KADETT E CC 2.0 GSI 16V	12/87 - 08/91	86,00	147 035 0001 00 148 035 0001 00	IN EX	8 8	1
6V1	3494	6	158 KW 215 PS	MONTEREY B 3.5 V6 24V	07/98 - 08/99	93,40	147 035 0002 00 148 035 0002 00	IN EX	12 12	2
A 16 LET	1598	4	132 KW 180 PS	ASTRA J 1.6 Turbo INSIGNIA A 1.6 Turbo	12/09 - 07/08 -	79,00	147 309 0001 00 148 309 0001 00	IN EX	8 8	5
A 18 XEL	1796	4	85-88 KW 115-120 PS	ZAFIRA B 1.8 ZAFIRA TOURER C 1.8	06/13 - 10/11 -	80,50	147 309 0001 00 148 309 0001 00	IN EX	8 8	5
A 18 XER, B 18 XER, Z 18 XER	1796	4	103 KW 140 PS	ASTRA H 1.8 ASTRA J GTC 1.8 INSIGNIA A 1.8 SIGNUM 1.8 VECTRA C 1.8 ZAFIRA B 1.8 ZAFIRA TOURER C 1.8	08/05 - 10/10 10/11 - 07/08 - 09/05 - 01/06 - 07/05 - 10/11 -	80,50	147 309 0001 00 148 309 0001 00	IN EX	8 8	5
B 16 LES	1598	4	152 KW 207 PS	CORSA E 1.6 Turbo	03/15 -	79,00	147 309 0001 00 148 309 0001 00	IN EX	8 8	5
C 16 NZ	1598	4	55 KW 75 PS	ASTRA F 1.6 i CORSA A CC 1.6 GSI	09/91 - 01/98 08/88 - 09/92	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
C 16 SE	1598	4	74 KW 101 PS	ASTRA F 1.6 Si CORSA A CC 1.6 GSI Cat	03/92 - 12/94 02/92 - 03/93	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
C 20 LET	1998	4	150 KW 204 PS	CALIBRA A (85_) 2.0 i Turbo 4x4 VECTRA A (86_ 87_) 2.0 i Turbo 4x4	03/92 - 07/97 06/94 - 11/95	86,00	147 035 0001 00 148 035 0001 00	IN EX	8 8	1
C 20 XE	1998	4	110 KW 150 PS	ASTRA F CC 2.0 GSI 16V CALIBRA A 2.0 i 16V KADETT E CC 2.0 GSI 16V KAT VECTRA A 2000/GT 16V KAT	09/91 - 01/98 06/90 - 02/94 03/88 - 05/92 08/89 - 11/95	86,00	147 035 0001 00 148 035 0001 00	IN EX	8 8	1
C14SEL	1389	4	63 KW 86 PS	CORSA B 1.4 i 16V	08/97 - 09/00	77,60	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
C16SEL	1598	4	74 KW 100 PS	ASTRA G CC 1.6 16V CORSA B 1.6 i 16V CORSA CLASSIC 1.6 TIGRA 1.6 16V	02/98 - 01/05 08/97 - 09/00 01/00 - 12/03 08/97 - 08/98	79,00	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
E 16 SE	1598	4	74 KW 100 PS	CORSA A CC 1.6 GSI	05/88 - 03/92	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
X 16 SZ	1598	4	52 KW 71 PS	ASTRA F 1.6 i	05/93 - 07/96	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
X 16 SZR	1598	4	55 KW 75 PS	ASTRA F CLASSIC CC 1.6 i ASTRA G 1.6 VECTRA B 1.6 i	01/98 - 01/05 02/98 - 09/00 10/95 - 04/02	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
X 18 XE1	1796	4	85 KW 116 PS	ASTRA G 1.8 16V VECTRA B 1.8 i 16V ZAFIRA A 1.8 16V	02/98 - 10/00 10/95 - 09/00 04/99 - 09/00	80,50	147 035 0003 00 148 035 0003 00	IN EX	8 8	3
X14XE	1389	4	66 KW 90 PS	Astra F 1.4i 16V	01/96 - 03/01	77,60	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
X14XE	1389	4	66 KW 90 PS	ASTRA F 1.4 i 16V Astra G 1.4 16V CORSA B 1.4 i 16V TIGRA 1.4 16V	01/96 - 03/01 02/98 - 01/05 09/94 - 09/00 08/97 - 12/00	77,60	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
X16XEL	1598	4	74 KW 100 PS	ASTRA F 1.6 i 16V ASTRA G 1.6 16V VECTRA B 1.6 i 16V	08/94 - 01/98 02/98 - 01/05 10/95 - 07/02	79,00	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
Y 32 NE	3165	6	151 KW 205 PS	FRONTERA B 3.2 i 24V	10/98 -	93,40	147 035 0002 00 148 035 0002 00	IN EX	12 12	2
Z 16 LET	1598	4	132 KW 180 PS	ASTRA H 1.6 Turbo MERIVA 1.6 Turbo	02/07 - 10/10 09/05 - 05/10	79,00	147 309 0001 00 148 309 0001 00	IN EX	8 8	5
Z 16 SE	1598	4	64 KW 87 PS	ASTRA G 1.6 COMBO 1.6 CORSA C 1.6 MERIVA 1.6	09/00 - 04/05 10/01 - 09/00 - 12/09 05/03 - 05/10	79,00	147 309 0007 00 148 309 0007 00	IN EX	4 4	6
Z 18 XE	1796	4	92 KW 125 PS	ASTRA G 1.8 16V ASTRA H 1.8 CORSA C 1.8 MERIVA A 1.8 SIGNUM 1.8 TIGRA TWIN TOP 1.8 VECTRA B 1.8 i 16V VECTRA C 1.8 16V ZAFIRA A 1.8 16V	06/00 - 10/05 01/04 - 10/10 09/00 - 12/09 05/03 - 05/10 05/03 - 06/04 - 09/00 - 04/02 - 09/00 - 06/05	80,50	147 035 0003 00 148 035 0003 00	IN EX	8 8	3
Z 18 XEL	1796	4	79-85 KW 107-116 PS	ASTRA G 1.8 VECTRA B 1.8 i 16V VECTRA C 1.8	02/03 - 01/05 10/95 - 09/00 04/02 -	80,50	147 035 0003 00 148 035 0003 00	IN EX	8 8	3
Z14XE	1389	4	66 KW 90 PS	Astra G 1.4 16V Corsa C 1.4	02/98 - 01/05 09/00 - 12/09	77,60	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
Z16XE	1598	4	74 KW 100 PS	MERIVA 1.6 16V	05/03 - 01/06	79,00	147 035 0004 00 148 035 0004 00	IN EX	8 8	4
Z16XE	1598	4	74 KW 100 PS	Vectra C 16V	06/04 -	79,00	147 035 0004 00 148 035 0004 00	IN EX	8 8	4

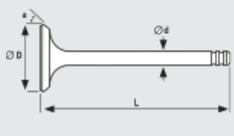
	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 035 0001 00	L = 105,10 D = 33,00 d = 6,96 a = 45°	S	CR			TH
	EX	148 035 0001 00	L = 105,00 D = 29,00 d = 6,97 a = 45°	A/S	CR		S/S	TH
2								
	IN	147 035 0002 00	L = 103,90 D = 34,00 d = 5,98 a = 45°	S	NT			H
	EX	148 035 0002 00	L = 103,55 D = 29,00 d = 5,98 a = 45°	A	NT			
3								
	IN	147 035 0003 00	L = 101,45 D = 31,25 d = 4,95 a = 45°	S	CR			H
	EX	148 035 0003 00	L = 100,85 D = 27,55 d = 4,94 a = 45°	A	CR		S/S	
4								
	IN	147 035 0004 00	L = 103,15 D = 31,05 d = 5,98 a = 45°	S	CR			TH
	EX	148 035 0004 00	L = 102,15 D = 27,50 d = 5,96 a = 45°	A	CR			
5								
	IN	147 309 0001 00	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	148 309 0001 00	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
6								
	IN	147 309 0007 00	L = 101,50 D = 38,00 d = 7,00 a = 45°	S	CR			H
	EX	148 309 0007 00	L = 101,70 D = 31,00 d = 6,99 a = 45°	A/S	CR			H

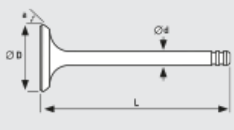
	ccm							IN/EX	QTY	Info	Pos.
HMY (EB2M)	1199	3	53 KW 72 PS	301 1.2 VTi 72	11/12 -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	301 1.2 VTi 82	12/14 - -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	108 1.2	05/14 - -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	2008 1.2 VTi	03/13 - -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	208 1.2	03/12 - -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1
HMZ (EB2F)	1199	3	60 KW 82 PS	308 II 1.2 VTi	09/13 - -	75,00	147 037 0001 00 148 037 0001 00	IN EX	6 6		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 037 0001 00	L = 92,55 D = 29,15 d = 4,98 a = 45°	S				H
	EX	148 037 0001 00	L = 91,85 D = 26,00 d = 4,97 a = 45°	A	NT			

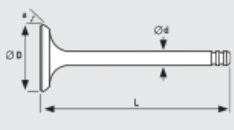
	ccm							IN/EX	QTY	Info	Pos.
A 16 LET	1598	4	132 KW 180 PS	9-5 1.6 Turbo	05/10 - 01/12	79,00	147 309 0001 00 148 309 0001 00	IN EX	8 8		2
Z 18 XE	1796	4	90 KW 122 PS	9-3 1.8 i	01/04 - 02/15	80,50	147 035 0003 00 148 035 0003 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 035 0003 00	L = 101,45 D = 31,25 d = 4,95 a = 45°	S	CR			H
	EX	148 035 0003 00	L = 100,85 D = 27,55 d = 4,94 a = 45°	A	CR		S/S	
2								
	IN	147 309 0001 00	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	148 309 0001 00	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH

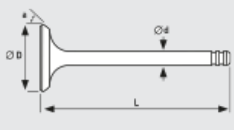
	ccm							IN/EX	QTY	Info	Pos.
CAXC	1390	4	92 KW 125 PS	ALTEA 1.4 TSI ALTEA XL 1.4 TSI	11/07 - 11/07 -	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1
CGGB	1390	4	63 KW 86 PS	ALTEA 1.4 16V ALTEA XL 1.4 16V	05/06 - 10/06 -	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 050 0001 00	L = 101,00 D = 29,50 d = 5,98 a = 45°	S				TH
	EX	148 050 0001 00	L = 100,60 D = 26,00 d = 5,97 a = 45°	A/S				TH

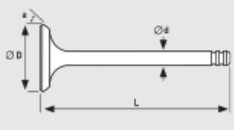
	ccm							IN/EX	QTY	Info	Pos.
CAXA	1390	4	90 KW 122 PS	YETI 1.4 TSI	06/10 -	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1
CAXC	1390	4	92 KW 125 PS	SUPERB II 1.4 TSI	07/08 - 05/15	76,50	147 050 0001 00 148 050 0001 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 050 0001 00	L = 101,00 D = 29,50 d = 5,98 a = 45°	S				TH
	EX	148 050 0001 00	L = 100,60 D = 26,00 d = 5,97 a = 45°	A/S				TH

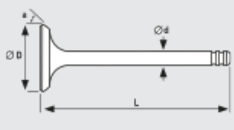
	ccm							IN/EX	QTY	Info	Pos.
M13A	1328	4	69 KW 94 PS	JUSTY III 1.3 AWD	09/03 -	78,00	147 094 0005 00 148 094 0005 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 094 0005 00	L = 100,70 D = 30,00 d = 5,48 a = 45°	S	NT			H
	EX	148 094 0005 00	L = 99,00 D = 25,00 d = 5,46 a = 45°	A	NT		S/S	

	ccm							IN/EX	QTY	Info	Pos.
K10B	996	3	50 KW 68 PS	ALTO 1.0	01/09 -	73,00	147 094 0003 00 148 094 0003 00	IN EX	6 6		1
K12M	1197	4	63 KW 86 PS	Swift Dzire 1.2	07/13 -	73,00	147 094 0004 00 148 094 0004 00	IN EX	8 8		2
M13A	1328	4	60-69 KW 82-94 PS	GRAND VITARA II 1.3 IGNIS II 1.3 SWIFT III 1.3 WAGON R+ 1.3	08/06 - 10/00 - 02/05 - 08/01 -	78,00	147 094 0005 00 148 094 0005 00	IN EX	8 8		3
M16A	1586	4	78 KW 106 PS	MARUTI SUZUKI SX 4 1.6	05/07 -	78,00	147 094 0005 00 148 094 0005 00	IN EX	8 8		3
M16A	1586	4	73-104 KW 99-142 PS	GRAND VITARA II 1.6 SWIFT III 1.6 SX4 1.6	09/05 - 02/15 05/06 - 06/06 -	78,00	147 094 0005 00 148 094 0005 00	IN EX	8 8		3

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 094 0003 00	L = 87,55 D = 27,60 d = 5,49 a = 45°	A	NT			
	EX	148 094 0003 00	L = 87,15 D = 22,90 d = 5,46 a = 45°	A	NT			
2								
	IN	147 094 0004 00	L = 87,45 D = 27,40 d = 4,99 a = 45°	S	NT			H
	EX	148 094 0004 00	L = 87,00 D = 22,90 d = 4,96 a = 45°	A	NT			
3								
	IN	147 094 0005 00	L = 100,70 D = 30,00 d = 5,48 a = 45°	S	NT			H
	EX	148 094 0005 00	L = 99,00 D = 25,00 d = 5,46 a = 45°	A	NT		S/S	

	ccm							IN/EX	QTY	Info	Pos.
B 4184 S11	1798	4	92 KW 125 PS	C30 1.8 S40 II 1.8 V50 1.8	10/06 - 12/12 04/04 - 12/10 04/04 - 12/10	83,00	147 021 0001 00 148 021 0001 00	IN EX	8 8		1

	IN/EX	ne		Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
1								
	IN	147 021 0001 00	L = 103,50 D = 32,50 d = 5,48 a = 45°	S	NT			H
	EX	148 021 0001 00	L = 104,50 D = 28,00 d = 5,48 a = 45°	A	NT			

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