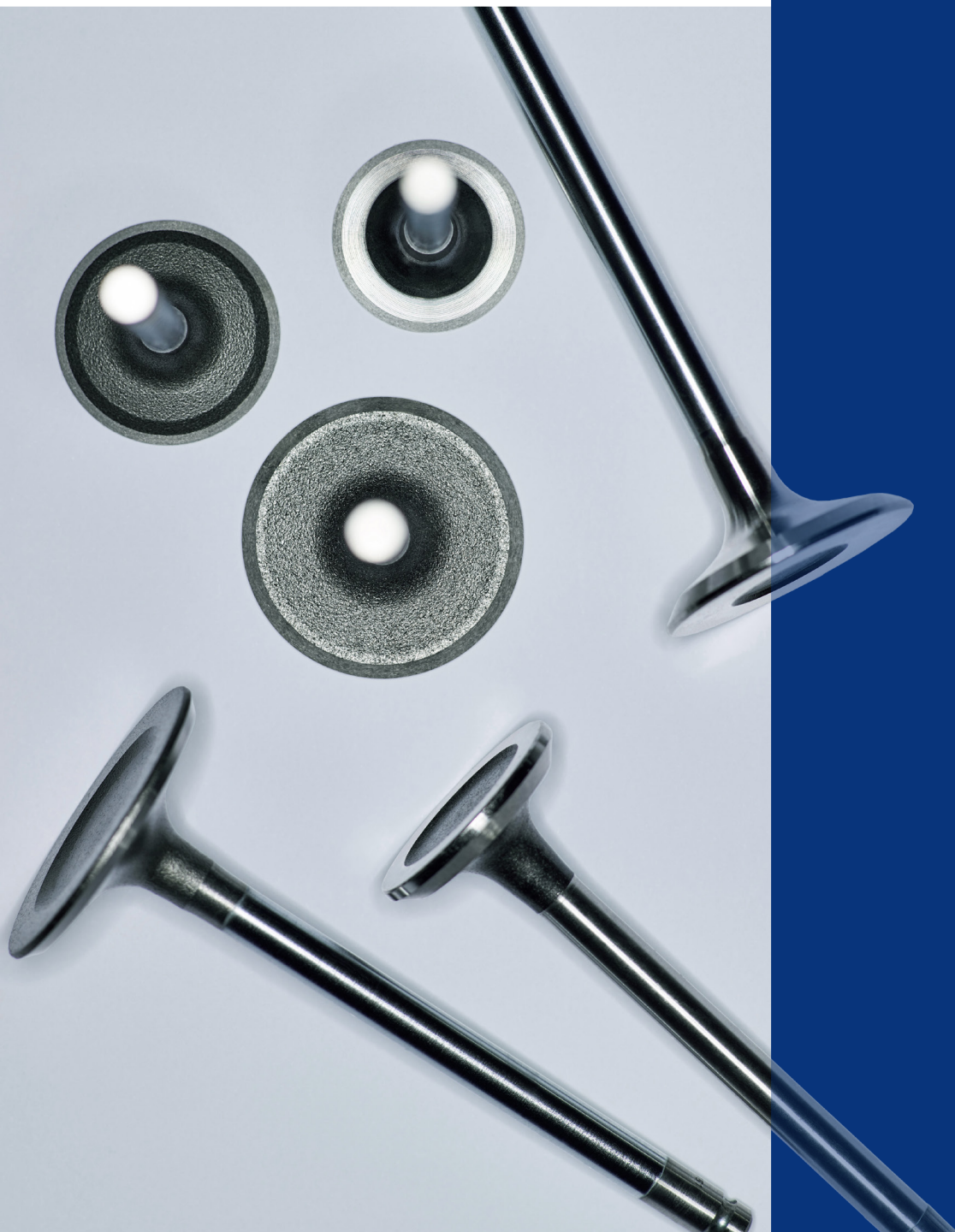




Globally reliable

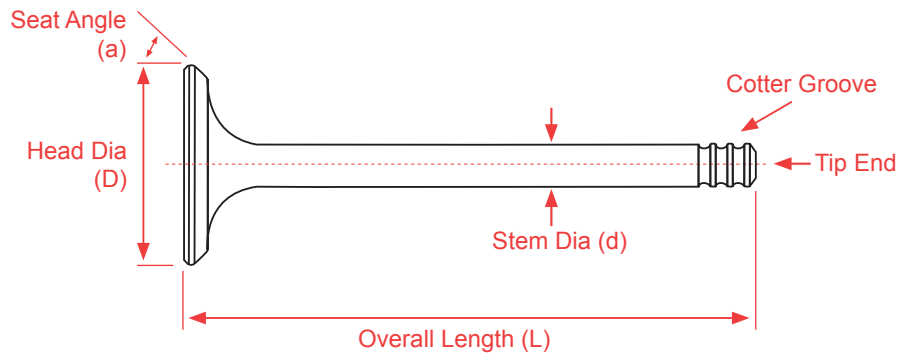
# NEWSLETTER V0/3



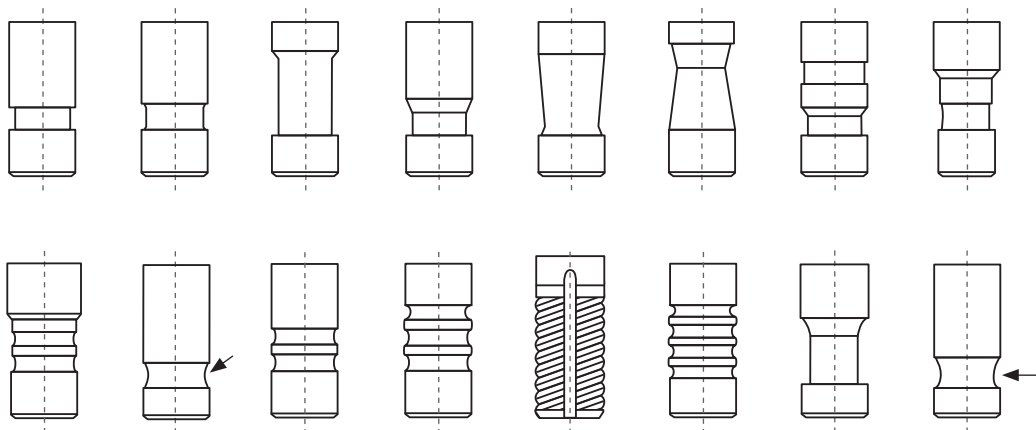
## Process Codes








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


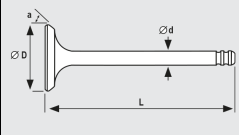


## Dimensions










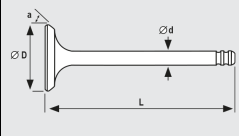




## Cotter Groove Design











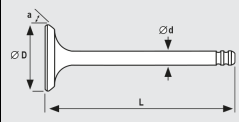


	ccm 						IN/EX	QTY	Info	Pos.
939 A4.000	1796 4	103 KW 140 PS	159 1.8 MPI	03/07 - 11/11	80,50	56 1400 0000 57 1400 0000	IN EX	8 8		1

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
<b>1</b>								
	IN	56 1400 0000	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	57 1400 0000	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH







	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	IN EX	4 4		1
OM 616.914	2399	4	53 KW 72 PS	T2/LN1 507 D	04/86 - 04/89	91,00	56 1002 0000 57 1002 0000	IN EX	4 4		1
OM 616.916	2404	4	48 KW 65 PS	/8 (W115) 240 D	08/73 - 01/77	91,00	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	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	56 1002 0000 57 1002 0000	IN EX	4 4	Please order 56/57-1002010	2


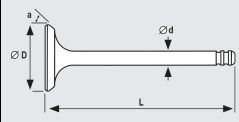








	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
<b>1</b>								
	IN	56 1002 0000	L = 131,40 D = 39,80 d = 9,94 a = 60°	S	CR			
	EX	57 1002 0000	L = 131,00 D = 34,20 d = 9,94 a = 60°	A/S	CR			
<b>2</b>								
	IN	56 1002 0000	L = 131,40 D = 39,80 d = 9,94 a = 60°	S	CR			
	EX	57 1002 0000	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	56 1400 0000 57 1400 0000	IN EX	8 8		1


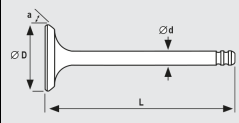




	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
<b>1</b>								
	IN	56 1400 0000	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	57 1400 0000	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH











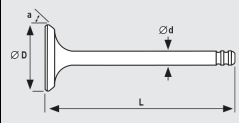




	ccm						IN/EX	QTY	Info	Pos.	
D3EA	1493	3	60 KW 82 PS	ACCENT II 1.5 CRDi ELANTRA LAVITA 1.5 CRDi GETZ 1.5 CRDi MATRIX 1.5 CRDi VERNA II 1.5 CRDi	01/02 - 11/05 10/01 - 08/10 03/03 - 09/05 10/01 - 08/10 04/02 - 11/05	83,00	56 2401 0000 57 2401 0000	IN EX	8 8		1
D4BB	2607	4	57-79 KW 78-107 PS	H100 2.6 TD	07/93 - 12/07	91,10	56 2403 0000 57 2403 0000	IN EX	4 4		3
D4BB	2607	4	57-79 KW 78-107 PS	H-1 2.6 CRDi	10/97 - 12/07	91,10	56 2403 0000 57 2403 0000	IN EX	4 4	Till 07/01	4
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	56 2401 0000 57 2401 0000	IN EX	8 8		1
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	56 2401 0000 57 2401 0000	IN EX	8 8		1
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	56 2401 0000 57 2401 0000	IN EX	8 8		1
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	56 2401 0000 57 2401 0000	IN EX	8 8		1
G4EA	1341	4	55-63 KW 75-86 PS	GETZ 1.3	09/02 - 06/09	71,50	56 2402 0000 57 2402 0000	IN EX	8 4		2
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	56 2402 0000 57 2402 0000	IN EX	8 4		2
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	56 2402 0000 57 2402 0000	IN EX	8 4		2

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
<b>1</b>								
	IN	56 2401 0000	L = 95,75 D = 28,50 d = 5,95 a = 45°	S	NT			H
	EX	57 2401 0000	L = 95,45 D = 24,40 d = 5,93 a = 45°	A/S	NT			H
<b>2</b>								
	IN	56 2402 0000	L = 99,30 D = 27,40 d = 5,97 a = 45°	S	NT			H
	EX	57 2402 0000	L = 98,50 D = 32,00 d = 5,95 a = 45°	A	NT			
<b>3</b>								
	IN	56 2403 0000	L = 132,00 D = 42,00 d = 7,97 a = 45°	S	NT			H
	EX	57 2403 0000	L = 132,00 D = 36,00 d = 7,94 a = 45°	A/S	NT			H
<b>4</b>								
	IN	56 2403 0000	L = 132,00 D = 42,00 d = 7,97 a = 45°	S	NT			H
	EX	57 2403 0000	L = 132,00 D = 36,00 d = 7,94 a = 45°	A/S	NT			H

	ccm 						IN/EX	QTY	Info	Pos.
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	56 1400 0000 57 1400 0000	IN EX	8 8	1
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	56 1400 0000 57 1400 0000	IN EX	8 8	1
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	56 1400 0000 57 1400 0000	IN EX	8 8	1
B 16 LES	1598	4	152 KW 207 PS	CORSA E 1.6 Turbo	03/15 -	79,00	56 1400 0000 57 1400 0000	IN EX	8 8	1
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	56 3502 0000 57 3502 0000	IN EX	8 8	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	56 1400 0000 57 1400 0000	IN EX	8 8	1
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	56 3502 0000 57 3502 0000	IN EX	8 8	2
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	56 3502 0000 57 3502 0000	IN EX	8 8	2

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
<b>1</b>								
	IN	56 1400 0000	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	57 1400 0000	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH
<b>2</b>								
	IN	56 3502 0000	L = 101,45 D = 31,25 d = 4,95 a = 45°	S	CR			H
	EX	57 3502 0000	L = 100,85 D = 27,55 d = 4,94 a = 45°	A	CR		S/S	

	<b>ccm</b> 						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	56 1400 0000 57 1400 0000	IN EX	8 8		1
Z 18 XE	1796 4	90 KW 122 PS	9-3 1.8 i	01/04 - 02/15	80,50	56 3502 0000 57 3502 0000	IN EX	8 8		2

	IN/EX			Material Specification	Valve Stem Coating	Cotter Design	Seat Treatment	Tip Treatment
<b>1</b>								
	IN	56 1400 0000	L = 113,80 D = 31,20 d = 4,98 a = 45°	S	CR		S/H	TH
	EX	57 1400 0000	L = 113,15 D = 27,50 d = 4,96 a = 45°	A/S	CR		S/S	TH
<b>2</b>								
	IN	56 3502 0000	L = 101,45 D = 31,25 d = 4,95 a = 45°	S	CR			H
	EX	57 3502 0000	L = 100,85 D = 27,55 d = 4,94 a = 45°	A	CR		S/S	