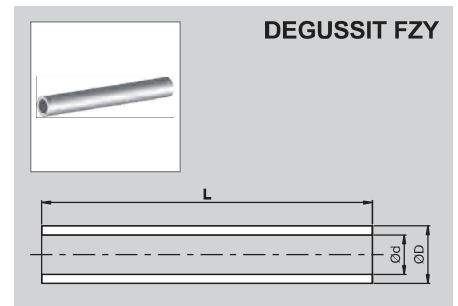


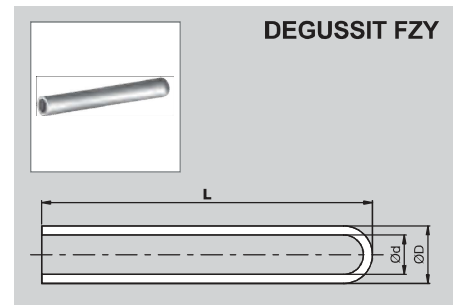
TUBES FOR OXYGEN SENSORS

Ø D	Ø d	L max.	Product No.
6	3	1000	122-56006-0
6	4	1000	122-56006-1
8	5	1000	122-56008-0
10	6	1000	122-56010-0
10	7	1000	122-56010-1
13	9	1000	122-56013-0
15	10	1000	122-56015-0
Order-Related Product			



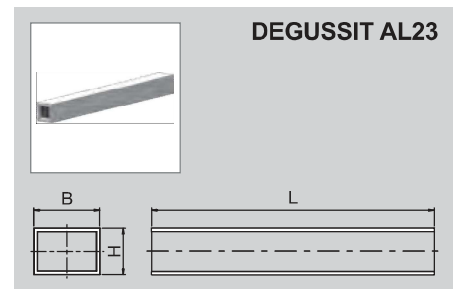
TUBES FOR OXYGEN SENSORS - ONE END CLOSED

Ø D	Ø d	L max.	Product No.
6	3	1000	101-56006-0
6	4	1000	101-56006-1
8	5	1000	101-56008-0
10	6	1000	101-56010-0
10	7	1000	101-56010-1
13	9	1000	101-56013-0
15	10	1000	101-56015-0
Order-Related Product			



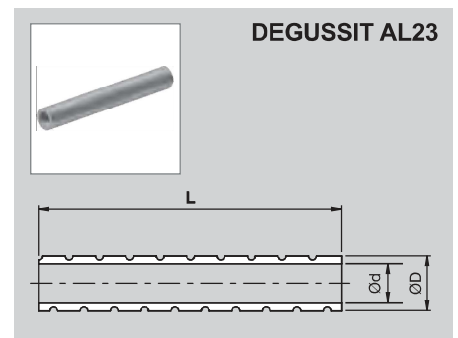
RECTANGULAR TUBES

B	H	Wall Thickness	L max.	Product No.
15	15	2,5	2150	191-11015-0
16	12	2,5	2150	191-11016-0
20	20	3	2150	191-11020-0
Order-Related Product				

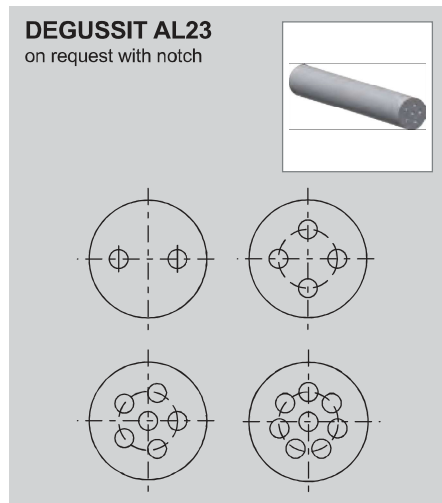


TUBES FOR HEATING COILS

Ø D	Ø d	L max.	Thread breadth	Thread depth	Thread pitch	Product No.
21	15	500	1	1	1.5	281-11021-0
27	20	500	1	1	1.5	281-11027-0
33	25	500	1	1	1.5	281-11033-0
38	29	500	1.5	1.2	2	281-11038-0
44	34	500	2	1.6	2.5	281-11044-0
50	38	500	2	2	2.5	281-11050-0
60	47	500	2.5	2	5	281-11060-0



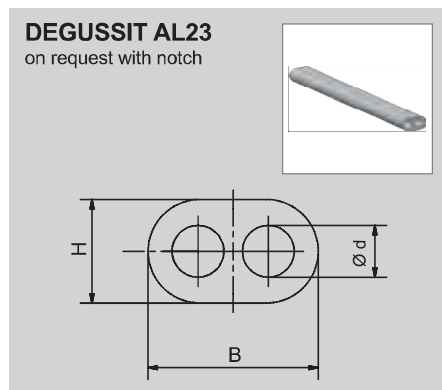
MULTI-BORE TUBES - ROUND



Ø D	Ø d	Number of bores	L max.	Product No.
0,9	0,2	2	400	141-11090-0
1,2	0,3	2	400	141-11120-0
1,2	0,2	4	400	142-11120-0
1,55	0,4	2	400	141-11155-0
2	0,5	2	400	141-11200-0
2	0,4	6	400	142-11200-0
2,35	0,5	4	400	142-11235-0
2,5	0,7	2	1200	141-11250-0
2,8	0,7	4	800	142-11280-0
3	0,8	2	2100	143-11030-0
4	0,8	2	2100	143-11040-0 *
4	0,8	4	2100	144-11040-0 *
4	1,2	2	2100	143-11040-1
5	1,2	2	2100	143-11050-0
5	1	4	2100	144-11050-0
5,5	1,2	4	2100	144-11055-0 *
6	1,5	2	2100	143-11060-0 *
8	0,8	6	2100	144-11080-0
8	0,8	8	2100	144-11080-1
8	1,6	2	2100	143-11080-0 *
8,5	1,5	4	2100	144-11085-0 *

* normative size for thermocouple

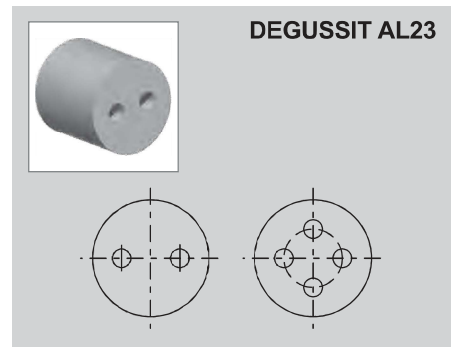
MULTI-BORE TUBES - OVAL



B	H	Ø d	Number of bores	L max.	Product No.
1.55	0,9	0,25	2	400	145-11155-0
2.3	1,4	0,7	2	400	145-11230-0
3	1,5	0,8	2	400	145-11030-0
4.2	2,2	1,2	2	400	145-11042-0

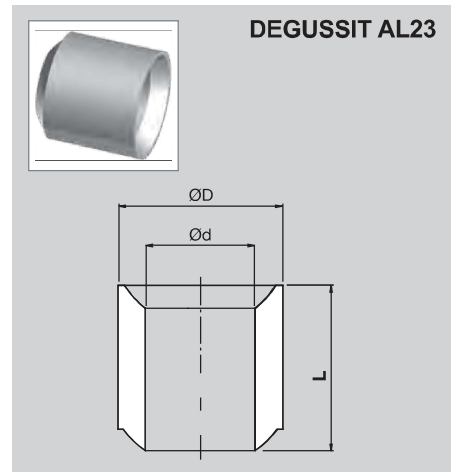
INSULATING BEADS ROUND

Ø D	Ø d	Number of bores	L	Product No.
4	0,8	2	4	161-11040-00004
4	0,8	2	10	161-11040-00010
4	0,8	4	4	162-11040-00004
4	0,8	4	10	162-11040-00010

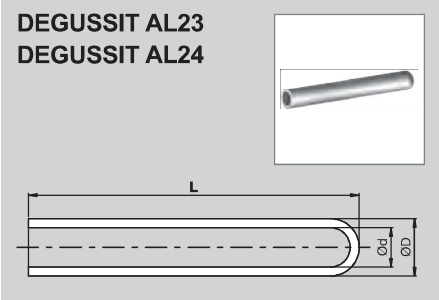


INSULATING BEADS ANGULAR

Ø D	Ø d	L	Product No.
3,5	1	3	160-11035-00003
4	1,5	4,7	160-11040-00004
5	2,5	5	160-11050-00005
7	3,8	7	160-11070-00007
8,5	5	10	160-11085-00010



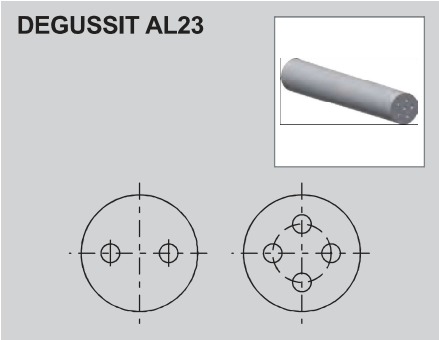
PROTECTIVE TUBES FOR STANDARD-LENGTH THERMOCOUPLES - ONE END CLOSED



Ø D	Ø d	L max.	Product No. DEGUSSIT AL23
8	5	2100	100-11008-0
10	6	2100	100-11010-0
12	8	2100	100-11012-0
15	10	2100	100-11015-0
20	15	2100	100-11020-0
24	18	2100	100-11024-0

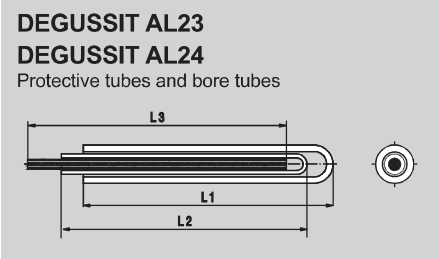
Ø D	Ø d	L max.	Product No. DEGUSSIT AL24
15	10	2100	100-21015-0
20	15	2100	100-21020-0
24	18	2100	100-21024-0

MULTI-BORE TUBES FOR STANDARD-LENGTH THERMOCOUPLES



Ø D	Ø d	Number of bores	L max.	Product No.
4	0,8	2	2100	140-11040-0
6	1,5	2	2100	140-11060-0
8	1,6	2	2100	140-11080-0
4	0,8	4	2100	140-11040-1
5,5	1,2	4	2100	140-11055-0
8,5	1,5	4	2100	140-11085-0

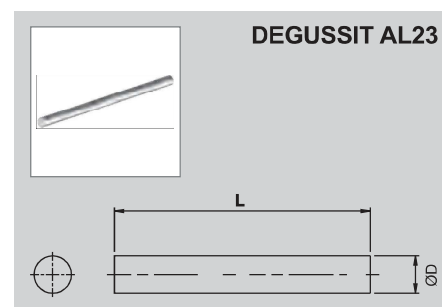
THERMOCOUPLES



Length outer protective tube L1	Length inner protective tube L2	Length bore tube L3	
180	200	205	
250	270	275	
355	375	380	
500	530	560	
710	740	770	
1000	1030	1060	
1400	1430	1460	
2000	2030	2060	

RODS

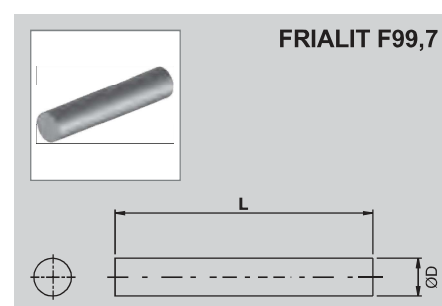
Ø D	L max.	Product No.
0,5	400	181-11050-0
0,6	400	181-11060-0
0,8	400	181-11080-0
1	400	181-11100-0
1,2	400	181-11120-0
1,5	400	181-11150-0
2	400	181-11200-0
3	1000	182-11003-0
4	1000	182-11004-0
5	1000	182-11005-0
6	1000	182-11006-0
8	1000	182-11008-0
10	1000	182-11010-0
12	1000	182-11012-0



BARS

Ø D	L max.	Product No.
15	400	625-13015-0
16	400	625-13016-1
20	400	625-13020-1
25	400	625-13025-1
30	400	625-13030-0
35	400	625-13035-0
40	400	625-13040-0
45	400	625-13045-0
50	400	625-13050-0
55	400	625-13055-0
60	400	625-13060-0
65	400	625-13065-0
70	400	625-13070-0
75	400	625-13075-0
80	400	625-13080-0
90	400	625-13090-0

Order-Related Product



Tolerances

Diameter: +1 / +4 mm

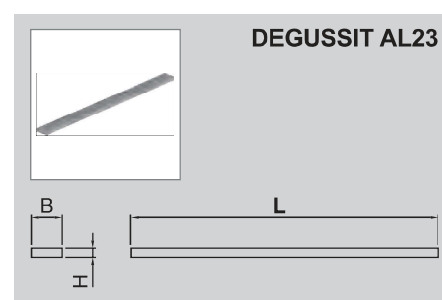
Length: +/- 5 mm

Deflection: max. 0,5 % of the total length

BANDS

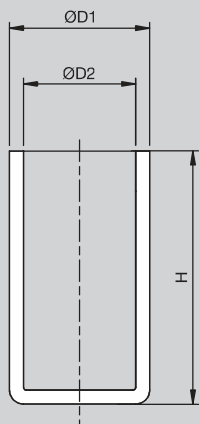
B	H	L max.	Product No.
1	1	400	183-11010-0
6	3	400	183-11060-1
7	2	400	183-11070-2
8	4	400	183-11080-2
10	1	400	183-11100-1
10	2	400	183-11100-6
10	3	400	183-11100-0
11	3	400	183-11110-0
15	3	400	183-11150-0
16	8	400	183-11160-3

Order-Related Product



CRUCIBLES - CYLINDRICAL, FLAT BASE

DEGUSSIT AL23
DEGUSSIT AL24
DEGUSSIT AL25
DEGUSSIT FZY



H	Ø D1	Ø D2	Approx. Vol. ml	Product No. DEGUSSIT AL23
15	10	8	0.7	201-11010-0150
30	20	16	6	201-11020-0300
40	30	26	20	201-11030-0400
50	35	30	40	201-11035-0500
60	40	36	60	201-11040-0600
75	50	44	110	201-11050-0750
100	65	55	225	201-11065-1000
150	85	73	600	201-11085-1500
150	110	100	1,100	201-11110-1500

H	Ø D1	Ø D2	Approx. Vol. ml	Product No. DEGUSSIT AL24
30	20	16	6	201-21020-0300
40	30	26	20	201-21030-0400
50	35	30	40	201-21035-0500
60	40	36	60	201-21040-0600
75	50	44	110	201-21050-0750
100	65	55	225	201-21065-1000
150	85	73	600	201-21085-1500

H	Ø D1	Ø D2	Approx. Vol. ml	Product No. DEGUSSIT AL25
160	145	125	1,760	201-22145-1600
200	120	100	1,500	201-22120-2000

H	Ø D1	Ø D2	Approx. Vol. ml	Product No. DEGUSSIT FZY
15	10	8	0.7	201-56010-0150
30	20	16	6	201-56020-0300
40	30	26	20	201-56030-0400
50	35	30	40	201-56035-0500
60	40	36	60	201-56040-0600
75	50	44	110	201-56050-0750
100	65	55	225	201-56065-1000
150	85	73	600	201-56085-1500
Order-Related Product				