

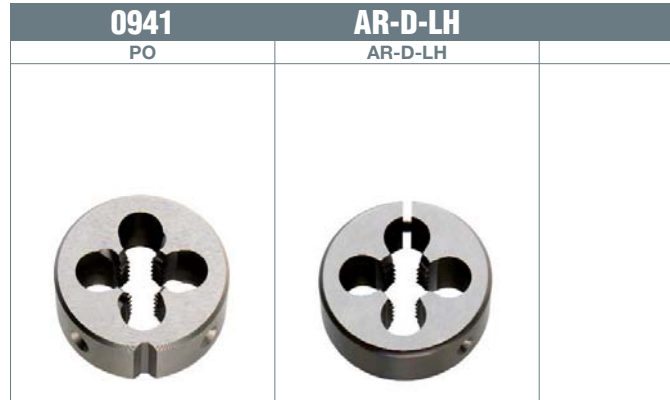
**DIES - CENTER DRILLS - COUNTERSINKS - THREAD MILLS  
FILIERE - PUNTE A CENTRARE - SVASATORI - FRESE A FILETTARE  
SCHNEIDEISEN - ZENTRIER BOHRER - KEGELSENKER - GEWINDEFÄSER  
FILIÈRES - FORETS A CENTRER - FRAISES À CHANFREINER - FRAISES À FILETER**

DIES / FILIERE / SCHNEIDEISEN / FILIÈRES .163  
CENTER DRILLS / PUNTE A CENTRARE / ZENTRIER BOHRER / FORETS A CENTRER .168  
COUNTERSINKS / SVASATORI / KEGELSENKER / FRAISES À CHANFREINER .173  
THREAD MILLS / FRESE A FILETTARE / GEWINDEFÄSER / FRAISES À FILETER .175





**M**  
DIN223B  
JIS NORM



MATERIAL GROUPS / GRUPPI MATERIALE WERKSTOFFEGRUPPE / GROUPES MATIÈRE							1-3 9 10 15 16 18 19		1-3 9 10 15 16 18 19	
<p>DIN223B</p>			<p>JIS</p>				 PO HSS BR 6g 1,5P	 AR-D HSS BR 6g 1P-2,5P	Stock	Stock
D	p	d	t	d1	t1					
M 1	0.25	16	5			○				
1.1	0.25	16	5			○				
1.2	0.25	16	5			○				
1.4	0.3	16	5			○				
1.6	0.35	16	5			○				
2	0.4	16	5			●				
2.3	0.4	16	5			○				
2.5	0.45	16	5			●				
2.6	0.45	16	5			○				
3	0.5	20	5	20	7	●		EX		
3.5	0.6	20	5			○				
4	0.7	20	5	20	7	●		EX		
5	0.8	20	7	20	7	●		EX		
6	1	20	7	20	7	●		EX		
7	1	25	9			○				
8	1.25	25	9	25	9	●		EX		
9	1.25	25	9			●				
10	1.5	30	11	25	9	●		EX		
11	1.5	30	11			○				
12	1.75	38	14	38	13	●		EX		
14	2	38	14	38	13	●				
16	2	45	18	38	13	●		EX		
18	2.5	45	18	50	16	●				
20	2.5	45	18	50	16	●		EX		
22	2.5	55	22	50	16	●				
24	3	55	22	50	16	●				
27	3	65	25			●				
30	3.5	65	25			●				
33	3.5	65	25			○				
36	4	65	25			○				

\*M1 ~ M1.4 Tol. = 6h

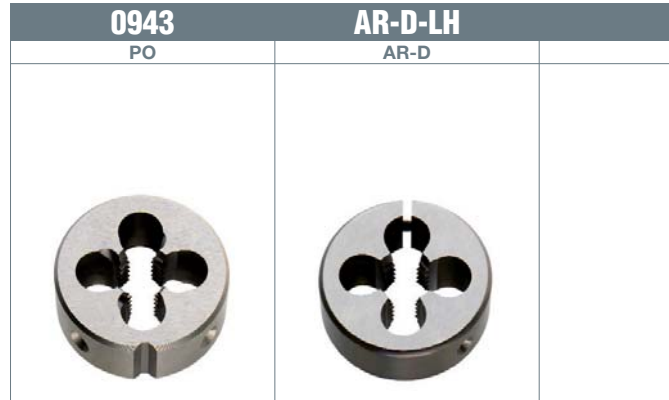
● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 1 ~ 4	3	3
5 ~ 12	4	4
14 ~ 20	5	5
22 ~ 24	5	6
27 ~ 30	6	6

MF

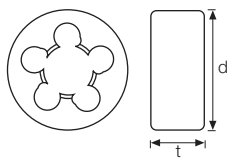
DIN223B  
JIS NORM



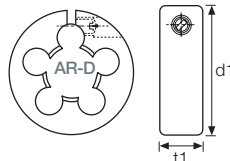
MATERIAL GROUPS / GRUPPI MATERIALE  
WERKSTOFFEGRUPPE / GROUPES MATIÈRE

1-3 9 10 15 16 18 19

1-3 9 10 15 16 18 19



DIN223B



JIS



HSS

BR

6g

1,5P



HSS

BR

6g

1P-2,5P

D	p	d	t	d1	t1	Stock	Stock
M 3	0.35	20	5			○	
4	0.5	20	5			○	
5	0.5	20	5			○	
6	0.75	20	7			○	
6	0.5	20	7			○	
7	0.75	25	9			○	
8	1	25	9	25	9	●	EX
8	0.75	25	9			○	
8	0.5	25	9			○	
9	1	25	9			○	
9	0.75	25	9			○	
10	1.25	30	11	25	9	●	EX
10	1	30	11	25	9	●	
10	0.75	30	11	25	9	○	
10	0.5	30	11	25	9	○	
12	1.5	38	10			●	EX
12	1.25	38	10	38	13	●	
12	1	38	10	38	13	●	EX
14	1.5	38	10	38	13	●	EX
14	1.25	38	10			○	
14	1	38	10			○	
16	1.5	45	14	38	13	●	
16	1	45	14			○	
18	2	45	14			○	

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 3	~ 4	3	
5	~ 12	4	4
14	~ 16	5	5
18	~ 24	5	6
27	~ 30	6	

**MF**

**DIN223B  
JIS NORM**

**0943**

**AR-D-LH**

PO

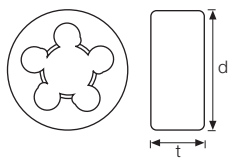
AR-D



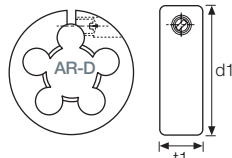
MATERIAL GROUPS / GRUPPI MATERIALE  
WERKSTOFFEGRUPPE / GROUPES MATIÈRE

1-3 9 10 15 16 18 19

1-3 9 10 15 16 18 19



DIN223B



JIS



HSS

BR

6g



HSS

BR

6g



D	p	d	t	d1	t1	Stock	Stock
M 18	1.5	45	14	50	16	●	
18	1	45	14			○	
20	2	45	14			○	
20	1.5	45	14	50	16	●	
20	1	45	14			○	
22	2	55	16			○	
22	1.5	55	16	50	16	●	
22	1	55	16			○	
24	2	55	16			●	
24	1.5	55	16	50	16	●	EX
24	1	55	16			○	
25	1.5	55	16			○	
25	1	55	16				
26	2	55	16			○	
26	1.5	55	16			○	
27	2	65	18			○	
27	1.5	65	18			○	
27	1	65	18			○	
28	2	65	18			○	
28	1.5	65	18			○	
28	1	65	18				
30	2	65	18			○	
30	1.5	65	18			○	
30	1	65	18			○	

● stock standard ○ non-standard stock △ on request EX stock exhaustion



M 3	~ 4	3	
5	~ 12	4	4
14	~ 16	5	5
18	~ 24	5	6
27	~ 30	6	



UNC  
UNF

DIN223B

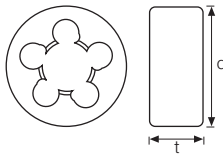
0949

PO



MATERIAL GROUPS / GRUPPI MATERIALE  
WERKSTOFFEGRUPPE / GROUPES MATIÈRE

1-3 9 10 15 16 18 19



D	UNC	UNF	d	t	Stock
Nr. 2	56		16	5	○
2		64	16	5	○
3	48		16	5	○
3		56	16	5	○
4	40		20	5	○
4		48	20	5	○
5	40		20	5	○
5		44	20	5	○
6	32		20	5	○
6		40	20	5	○
8	32		20	7	○
8		36	20	7	○
10	24		20	7	○
10		32	20	7	○
12	24		20	7	○
12		28	20	7	○
1/4	20		25	9	○
1/4		28	25	9	○
5/16	18		25	9	○
5/16		24	25	9	○
3/8	16		30	11	○
3/8		24	30	11	○
7/16	14		30	11	○
7/16		20	30	11	○
1/2	13		38	14	○
1/2		20	38	10	○
9/16	12		38	14	○
9/16		18	38	10	○
5/8	11		45	18	○
5/8		18	45	14	○
3/4	10		45	18	○
3/4		16	45	14	○
7/8	9		55	22	○
7/8		14	55	16	○
1	8		55	22	○
1		12	55	16	○

● stock standard ○ non-standard stock △ on request EX stock exhaustion



Nr. 0	~ 8	3
10	~ 3/8	4
7/16	~ 1	5

**G**  
**DIN5158**



MATERIAL GROUPS / GRUPPI MATERIALE  
WERKSTOFFEGRUPPE / GROUPES MATIÈRE

1-3 9 10 15 16 18 19

PO  
HSS  
BR  
1,5P

D	d	t	Stock
G 1/8 x 28	30	11	●
1/4 x 19	38	10	●
3/8 x 19	45	14	●
1/2 x 14	45	16	●
5/8 x 14	55	16	○
3/4 x 14	55	16	●
7/8 x 14	65	18	
1 7/8 x 11	65	18	●
1 1/4 x 11	75	20	
1 1/2 x 11	90	22	
2 7/8 x 11	105	22	

● stock standard ○ non-standard stock △ on request EX stock exhaustion



G 1/8 ~	4
1/4 ~ 5/8	5
3/4 ~ 7/8	5
1 ~2	6

