COLONNE E BUSSOLE

LEADER PINS and BUSHINGS

COMAT srl

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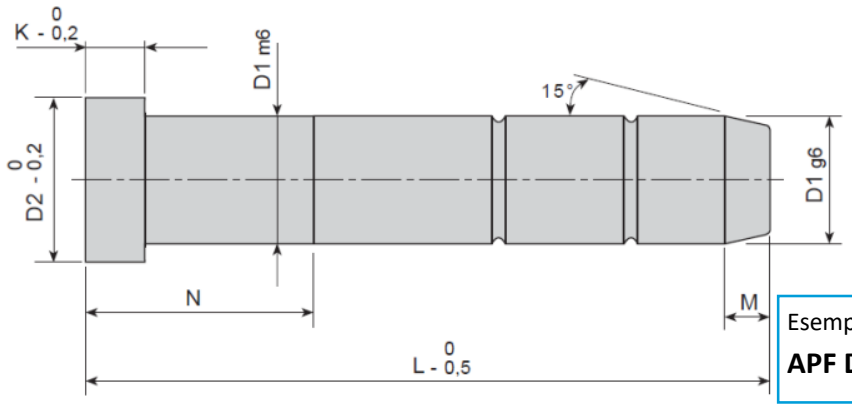
All dimensions shown in this catalogue are in mm, except when otherwise indicated.COMAT declines any responsibility for any printing mistakes contained in this catalog. Technical data may be subject to change without prior notice

Prodotto fabbricato in Italia / Product made in Italy

APF

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 58-62 HRC



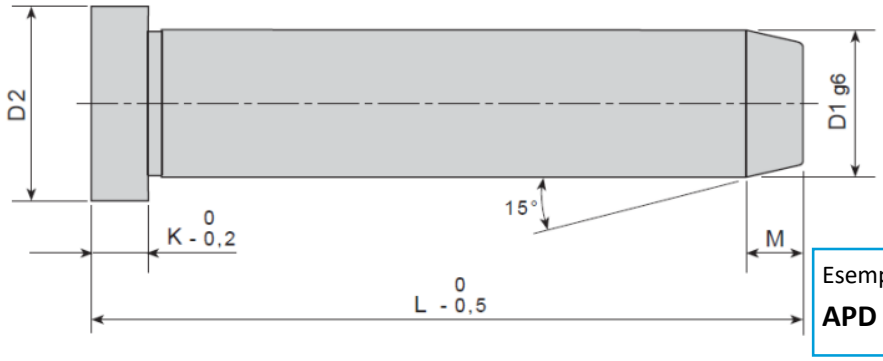
Esempio ordine / *order example*
APF D1 X L

	ØD1							
	12	16	20	24	34	42	50	60
ØD2	16	20	24	28	38	48	56	66
K	5	5	6	6	6	8	10	10
M	5	7	8	8	8	10	10	10

Cod/Ref	L	N	ØD1							
			12	16	20	24	34	42	50	60
APF	50	13	●	●						
APF	60	15	●	●	●					
APF	70	15	●	●	●					
APF	80	20	●	●	●	●				
APF	90	20	●	●	●	●				
APF	100	25	●	●	●	●				
APF	120	25	●	●	●	●	●	●		
APF	140	30	●	●	●	●	●	●		
APF	160	35	●	●	●	●	●	●		
APF	180	40		●	●	●	●	●		
APF	200	40		●	●	●	●	●		
APF	230	50		●	●	●	●	●		
APF	260	50			●	●	●	●		
APF	300	50			●	●	●	●	●	●
APF	350	60					●	●	●	●
APF	400	60					●	●	●	●
APF	500	70							●	●
APF	600	70							●	●

APD

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



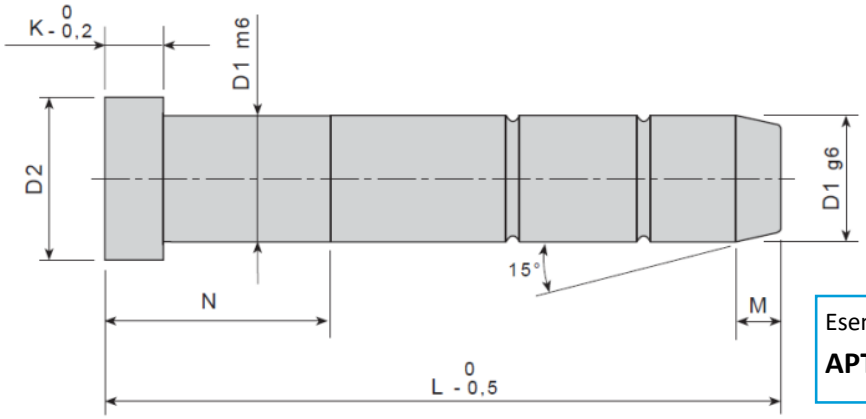
Esempio ordine / *order example*
APD D1 X L

	ØD1															
	8	9	10	12	14	15	16	18	20	22	24	30	32	40	50	60
ØD2	10	12	12	16	18	18	20	22	24	26	28	36	36	48	58	68
K	3	3	3	6	8	8	8	8	8	15	15	15	15	15	15	20
M	4	4	4	5	5	5	5	7	7	7	7	7	7	10	15	20

Cod/Ref	L	ØD1															
		8	9	10	12	14	15	16	18	20	22	24	30	32	40	50	60
APD	40	●	●	●	●			●									
APD	50	●															
APD	60	●	●	●	●	●	●	●	●	●							
APD	80	●	●	●	●	●	●	●	●	●	●	●					
APD	100	●	●	●	●	●	●	●	●	●	●	●	●	●			
APD	120		●	●	●	●	●	●	●	●	●	●	●	●			
APD	140			●	●	●	●	●	●	●	●	●	●	●			
APD	160			●	●	●	●	●	●	●	●	●	●	●	●	●	
APD	180				●	●	●	●	●	●	●	●	●	●			
APD	200				●	●	●	●	●	●	●	●	●	●	●	●	
APD	220					●	●	●	●	●	●	●					
APD	240					●	●	●	●	●	●	●	●	●	●	●	
APD	260								●	●	●	●					
APD	280								●	●	●	●					●
APD	300							●	●	●	●	●	●	●	●	●	●
APD	320								●	●	●	●					
APD	340										●	●					●
APD	360										●	●	●	●	●	●	●
APD	400												●	●	●	●	●
APD	420														●		
APD	500														●	●	●

APT

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



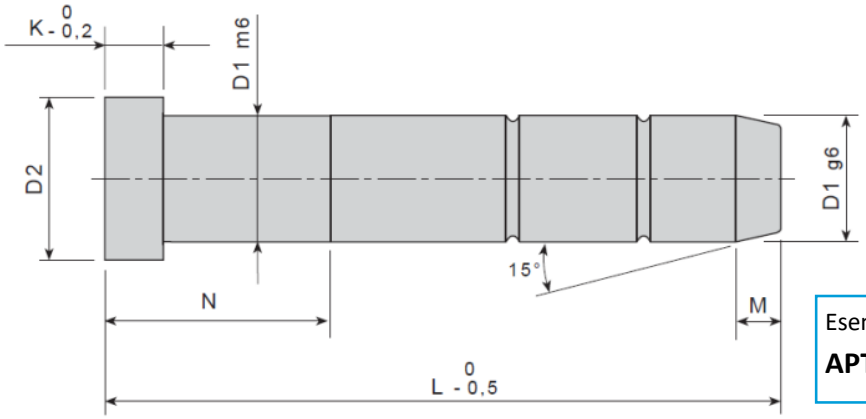
Esempio ordine / *order example*
APT D1 X L

Cod/Ref	ØD1	L	N	ØD2	K	M
APT	10	40	17	12	3	5
APT	10	60	17	12	3	5
APT	10	80	22	12	3	5
APT	10	100	27	12	3	5
APT	12	60	17	16	6	5
APT	12	80	22	16	6	5
APT	12	100	27	16	6	5
APT	12	120	27	16	6	5
APT	14	60	17	18	8	5
APT	14	80	22	18	8	5
APT	14	100	27	18	8	5
APT	14	120	27	18	8	5
APT	14	140	36	18	8	5
APT	14	160	36	18	8	5
APT	14	180	40	18	8	6
APT	16	60	17	20	8	5
APT	16	80	22	20	8	5
APT	16	100	27	20	8	5
APT	16	120	27	20	8	5
APT	16	140	36	20	8	5
APT	16	160	36	20	8	5
APT	16	180	36	20	8	5
APT	16	200	36	20	8	5
APT	16	240	46	20	8	5
APT	18	80	22	22	8	7
APT	18	100	27	22	8	7
APT	18	120	27	22	8	7

Cod/Ref	ØD1	L	N	ØD2	K	M
APT	18	140	36	22	8	7
APT	18	160	36	22	8	7
APT	18	180	46	22	8	7
APT	18	200	56	22	8	7
APT	18	240	56	22	8	7
APT	18	280	56	22	8	7
APT	20	80	22	24	8	7
APT	20	100	27	24	8	7
APT	20	120	27	24	8	7
APT	20	140	36	24	8	7
APT	20	160	36	24	8	7
APT	20	180	56	24	8	7
APT	20	200	56	24	8	7
APT	20	240	56	24	8	7
APT	20	280	56	24	8	7
APT	22	100	27	26	15	7
APT	22	120	27	26	15	7
APT	22	140	36	26	15	7
APT	22	160	36	26	15	7
APT	22	180	46	26	15	7
APT	22	200	56	26	15	7
APT	22	220	56	26	15	7
APT	22	240	56	26	15	7
APT	22	280	56	26	15	7
APT	22	300	56	26	15	7
APT	22	320	56	26	15	7
APT	22	360	56	26	15	7

APT

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



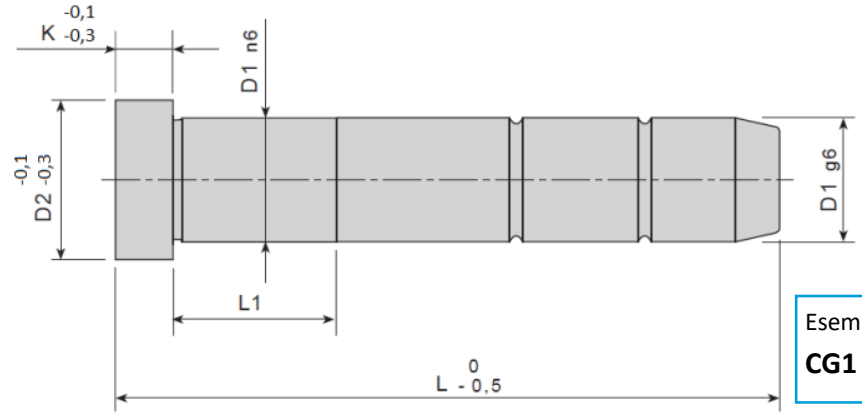
Esempio ordine / *order example*
APT D1 X L

Cod/Ref	ØD1	L	N	ØD2	K	M
APT	24	100	27	28	15	7
APT	24	120	27	28	15	7
APT	24	140	36	28	15	7
APT	24	160	36	28	15	7
APT	24	180	46	28	15	7
APT	24	200	56	28	15	7
APT	24	220	56	28	15	7
APT	24	240	56	28	15	7
APT	24	280	56	28	15	7
APT	24	300	56	28	15	7
APT	24	320	56	28	15	7
APT	24	360	56	28	15	7
APT	30	160	36	28	15	7
APT	30	200	56	36	15	7
APT	30	240	56	36	15	7
APT	30	280	56	36	15	7
APT	30	300	56	36	15	7
APT	30	360	56	36	15	7
APT	32	160	36	36	15	7
APT	32	200	56	36	15	7
APT	32	240	56	36	15	7

Cod/Ref	ØD1	L	N	ØD2	K	M
APT	32	280	56	36	15	7
APT	32	300	56	36	15	7
APT	32	360	56	36	15	7
APT	40	200	56	48	15	10
APT	40	240	56	48	15	10
APT	40	300	56	48	15	10
APT	40	360	76	48	15	10
APT	40	400	76	48	15	10
APT	40	500	96	48	15	10
APT	50	200	46	58	15	15
APT	50	240	56	58	15	15
APT	50	300	56	58	15	15
APT	50	360	76	58	15	15
APT	50	400	76	58	15	15
APT	50	500	96	58	15	15
APT	60	240	56	68	20	20
APT	60	300	56	68	20	20
APT	60	360	76	68	20	20
APT	60	400	76	68	20	20
APT	60	500	96	68	20	20

CG1

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



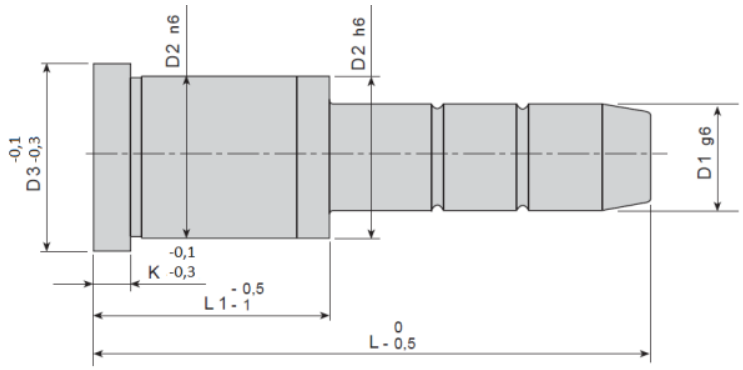
Esempio ordine / *order example*
CG1 D1 X L

	ØD1									
	12	14	16	18	20	25	32	40	50	60
ØD2	16	18	20	22	24	30	37	45	55	68
K	5	5	5	5	6	7	7	8	10	12

Cod/Ref	L	L1	ØD1									
			12	14	16	18	20	25	32	40	50	60
CG1	50	8	●	●	●	●						
CG1	60	8	●	●	●	●	●					
CG1	70	8	●	●	●	●	●					
CG1	80	15	●	●	●	●	●	●				
CG1	90	15	●	●	●	●	●	●				
CG1	100	20	●	●	●	●	●	●				
CG1	110	20		●	●	●	●					
CG1	120	20	●	●	●	●	●	●	●	●		
CG1	130	20		●	●	●	●					
CG1	140	20	●	●	●	●	●	●	●	●		
CG1	150	20		●	●	●	●					
CG1	160	20	●	●	●	●	●	●	●	●		
CG1	180	25		●	●	●	●	●	●	●		
CG1	200	25			●	●	●	●	●	●		
CG1	220	25			●	●	●	●	●	●		
CG1	240	35					●	●	●	●	●	
CG1	260	35					●	●	●	●	●	
CG1	280	35					●	●	●	●	●	
CG1	300	45					●	●	●	●	●	
CG1	350	55						●	●	●	●	●
CG1	400	55						●	●	●	●	●
CG1	450	65							●	●	●	●
CG1	500	65								●	●	●
CG1	600	75									●	●
CG1	800	75										●

CG2

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



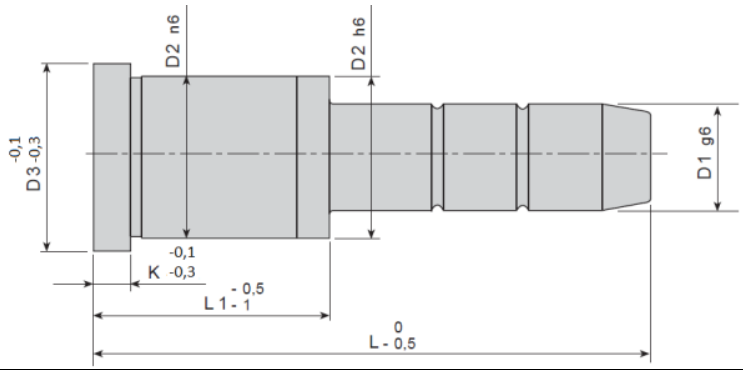
Esempio ordine / *order example*
CG2 D1 X L1 X L

	ØD1										
	12	14	16	18	20	(*)20	25	(*)25	32	40	50
ØD2	18	20	22	26	28	30	34	36	40	48	60
ØD3	22	24	26	30	32	34	38	40	45	52	65
K	5	5	5	5	6	6	7	7	7	8	10

Cod/Ref	ØD1	L1	L									
			50	60	70	80	90	100	120	140	160	180	200
CG2	12	22	●	●	●	●	●	●					
CG2	12	26	●	●	●	●	●	●					
CG2	12	36	●	●	●	●	●	●	●				
CG2	12	46			●	●	●	●	●				
CG2	12	56					●	●	●				
CG2	14	22	●	●	●	●	●	●					
CG2	14	26		●	●	●	●	●	●				
CG2	14	36			●	●	●	●	●				
CG2	14	46			●	●	●	●	●				
CG2	14	56					●	●	●				
CG2	16	22	●	●	●	●	●	●	●				
CG2	16	26	●	●	●	●	●	●	●	●			
CG2	16	36		●	●	●	●	●	●	●			
CG2	16	46			●	●	●	●	●	●	●		
CG2	16	56				●	●	●	●	●	●	●	●
CG2	16	66						●	●	●	●	●	●
CG2	16	76						●	●	●	●	●	●
CG2	16	96								●	●	●	●
CG2	18	26		●	●	●	●	●					
CG2	18	36		●	●	●	●	●	●	●			
CG2	18	46			●	●	●	●	●	●	●		
CG2	18	56				●	●	●	●	●	●	●	
CG2	18	66						●	●	●	●	●	
CG2	18	76							●	●	●	●	
CG2	20	26		●	●	●	●	●	●	●			
CG2	20	36		●	●	●	●	●	●	●	●		
CG2	20	46			●	●	●	●	●	●	●		
CG2	20	56				●	●	●	●	●	●	●	●
CG2	20	66						●	●	●	●	●	●
CG2	20	76							●	●	●	●	●

CG2

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



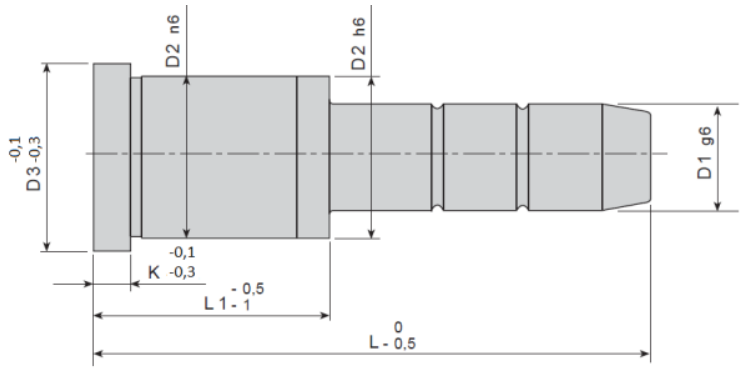
Esempio ordine / *order example*
CG2 D1 X L1 X L
(*)CG2 D1 X L1 X L X D2

	ØD1										
	12	14	16	18	20	(*)20	25	(*)25	32	40	50
ØD2	18	20	22	26	28	30	34	36	40	48	60
ØD3	22	24	26	30	32	34	38	40	45	52	65
K	5	5	5	5	6	6	7	7	7	8	10

Cod/Ref	ØD1	L1	L													
			50	60	70	80	90	100	120	140	160	180	200	220	240	260	280
CG2	20	86								●	●	●	●				
CG2	20	96								●	●	●	●				
(*)CG2	20	26		●	●	●	●	●	●	●							
(*)CG2	20	36		●	●	●	●	●	●	●	●						
(*)CG2	20	46			●	●	●	●	●	●	●						
(*)CG2	20	56				●	●	●	●	●	●	●	●				
(*)CG2	20	66						●	●	●	●	●	●				
(*)CG2	20	76							●	●	●	●	●				
(*)CG2	20	86								●	●	●	●				
(*)CG2	20	96								●	●	●	●				
CG2	25	26				●	●	●									
CG2	25	36				●	●	●	●	●	●	●					
CG2	25	46					●	●	●	●	●	●	●				
CG2	25	56						●	●	●	●	●	●	●	●		
CG2	25	66							●	●	●	●	●	●	●	●	●
CG2	25	76							●	●	●	●	●	●	●	●	●
CG2	25	86								●	●	●	●	●	●	●	●
CG2	25	96								●	●	●	●	●	●	●	●
CG2	25	116									●	●	●	●	●	●	●
(*)CG2	25	26				●	●	●									
(*)CG2	25	36				●	●	●	●	●	●	●					
(*)CG2	25	46					●	●	●	●	●	●	●				
(*)CG2	25	56						●	●	●	●	●	●	●	●		
(*)CG2	25	66							●	●	●	●	●	●	●	●	●
(*)CG2	25	76							●	●	●	●	●	●	●	●	●
(*)CG2	25	86								●	●	●	●	●	●	●	●
(*)CG2	25	96								●	●	●	●	●	●	●	●
(*)CG2	25	116									●	●	●	●	●	●	●

CG2

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



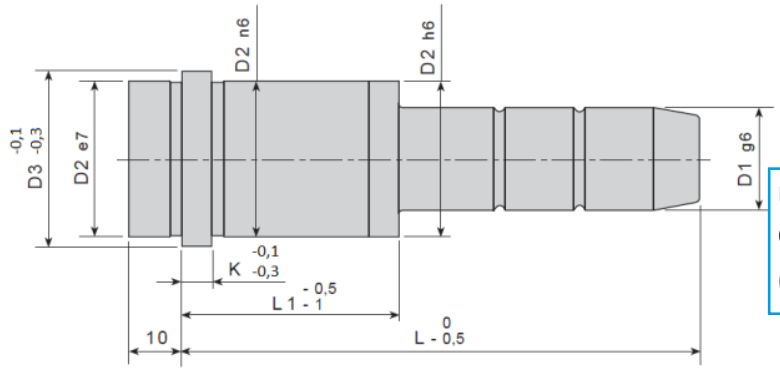
Esempio ordine / *order example*
CG2 D1 X L1 X L

	ØD1										
	12	14	16	18	20	(*)20	25	(*)25	32	40	50
ØD2	18	20	22	26	28	30	34	36	40	48	60
ØD3	22	24	26	30	32	34	38	40	45	52	65
K	5	5	5	5	6	6	7	7	7	8	10

Cod/Ref	ØD1	L1	L														
			80	90	100	120	140	160	180	200	220	240	260	280	300	340	400
CG2	32	36			●	●											
CG2	32	46			●	●	●	●									
CG2	32	56			●	●	●	●	●	●	●	●					
CG2	32	66				●	●	●	●	●	●	●	●	●			
CG2	32	76					●	●	●	●	●	●	●	●			
CG2	32	86						●	●	●	●	●	●	●			
CG2	32	96						●	●	●	●	●	●	●	●	●	
CG2	32	106						●	●	●	●	●	●	●	●	●	
CG2	32	116						●	●	●	●	●	●	●	●	●	●
CG2	32	126							●	●	●	●	●	●	●	●	●
CG2	32	146								●	●	●	●	●	●	●	●
CG2	40	46				●	●	●	●	●							
CG2	40	56				●	●	●	●	●	●						
CG2	40	66						●	●	●	●	●					
CG2	40	76						●	●	●	●	●	●				
CG2	40	86						●	●	●	●	●	●	●			
CG2	40	96						●	●	●	●	●	●	●	●	●	
CG2	40	106							●	●	●	●	●	●	●	●	
CG2	40	116							●	●	●	●	●	●	●	●	●
CG2	40	126							●	●	●	●	●	●	●	●	●
CG2	40	146										●	●	●	●	●	●
CG2	50	96							●	●	●	●	●	●	●	●	
CG2	50	126									●	●	●	●	●	●	●
CG2	50	146										●	●	●	●	●	●

CG2S

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



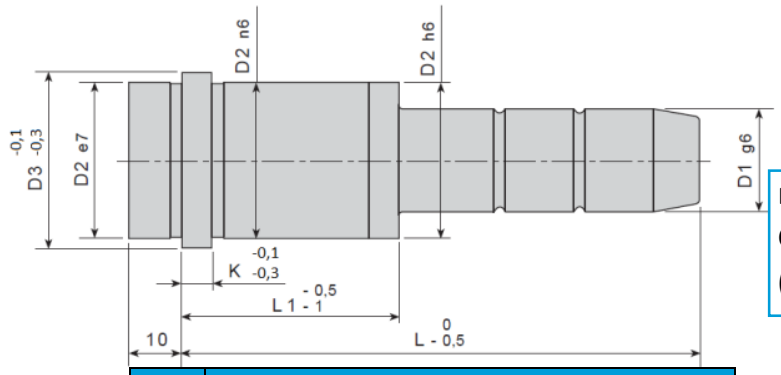
Esempio ordine / *order example*
CG2S D1 X L1 X L
(*)CG2S D1 X L1 X L X D2

	ØD1						
	16	20	(*)20	25	(*)25	32	40
ØD2	22	28	30	34	36	40	48
ØD3	26	32	34	38	40	45	52
K	5	6	6	7	7	7	8

Cod/Ref	ØD1	L1	L						
			70	80	100	120	140	160	180	200
CG2S	16	26	●	●	●	●				
CG2S	16	36		●	●	●	●			
CG2S	16	46			●	●	●	●		
CG2S	16	56			●	●	●	●		
CG2S	16	66				●	●	●	●	
CG2S	16	76					●	●	●	
CG2S	20	36	●	●	●	●	●			
CG2S	20	46		●	●	●	●	●		
CG2S	20	56			●	●	●	●		
CG2S	20	66				●	●	●		
CG2S	20	76					●	●	●	
CG2S	20	96					●	●	●	●
(*)CG2S	20	36	●	●	●	●	●			
(*)CG2S	20	46		●	●	●	●	●		
(*)CG2S	20	56			●	●	●	●		
(*)CG2S	20	66				●	●	●		
(*)CG2S	20	76					●	●	●	
(*)CG2S	20	96					●	●	●	●

CG2S

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



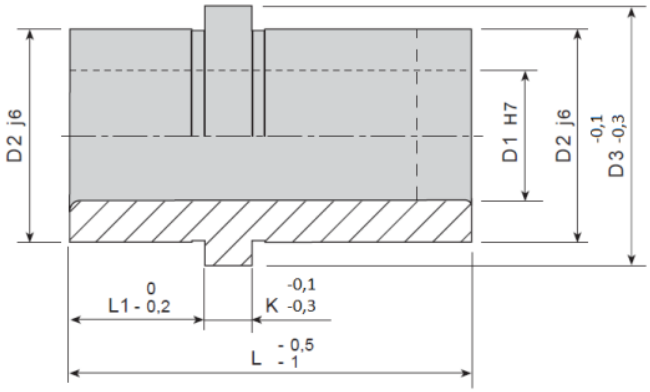
Esempio ordine / *order example*
CG2S D1 X L1 X L
(*)CG2S D1 X L1 X L X D2

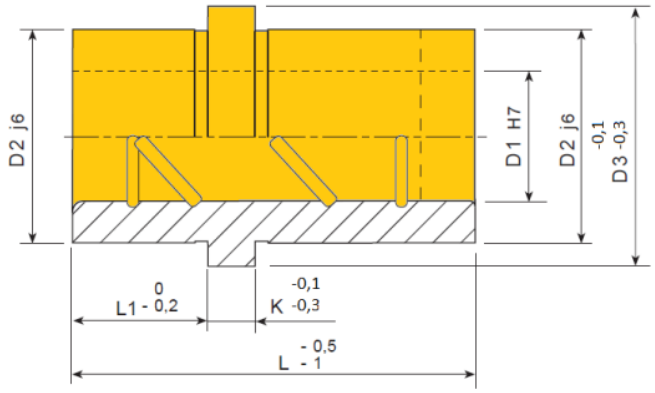
	ØD1						
	16	20	(*)20	25	(*)25	32	40
ØD2	22	28	30	34	36	40	48
ØD3	26	32	34	38	40	45	52
K	5	6	6	7	7	7	8

Cod/Ref	ØD1	L1	L						
			70	80	100	120	140	160	180	200
CG2S	25	36		●	●	●	●			
CG2S	25	46		●	●	●	●	●		
CG2S	25	56			●	●	●	●		
CG2S	25	66				●	●	●	●	
CG2S	25	76					●	●	●	
CG2S	25	96					●	●	●	●
(*)CG2S	25	36		●	●	●	●			
(*)CG2S	25	46		●	●	●	●	●		
(*)CG2S	25	56			●	●	●	●		
(*)CG2S	25	66				●	●	●	●	
(*)CG2S	25	76					●	●	●	
(*)CG2S	25	96					●	●	●	●
CG2S	32	36			●	●	●			
CG2S	32	46			●	●	●	●		
CG2S	32	56			●	●	●	●	●	
CG2S	32	66				●	●	●	●	
CG2S	32	76					●	●	●	
CG2S	32	96						●	●	●
CG2S	40	46				●	●			
CG2S	40	56				●	●	●		
CG2S	40	66					●	●	●	●
CG2S	40	76					●	●	●	●
CG2S	40	96						●	●	●

BUC / BUCB

BUC
Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC
BUCB
Bronzo / *Bronze*





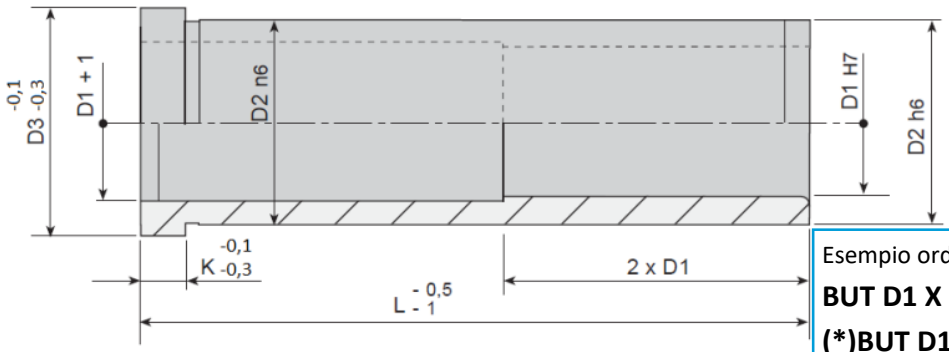
Cod/Ref	ØD1	ØD2	ØD3	L1	K	L						
						32	40	50	65	70	80	90
BUC/BUCB	12	18	22	16	5	●	●					
BUC/BUCB	14	20	24	16	5	●	●					
BUC/BUCB	16	22	26	16	5	●	●					
BUC/BUCB	18	26	30	16	5	●	●					
BUC/BUCB	20	28	32	16	6	●	●					
(*)BUC/BUCB	20	30	34	16	6	●	●					
BUC/BUCB	25	34	38	16	7	●	●					
(*)BUC/BUCB	25	36	40	16	7	●	●					
BUC/BUCB	32	40	45	25	7			●	●			
BUC/BUCB	40	48	52	32	8				●		●	
BUC/BUCB	50	60	65	32	10					●		●

Esempio ordine **BUC/BUCB D x L**
(*) BUC/BUCB D x L x D3

Order example **BUC/BUCB D x L**
(*) BUC/BUCB D x L x D3

BUT

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



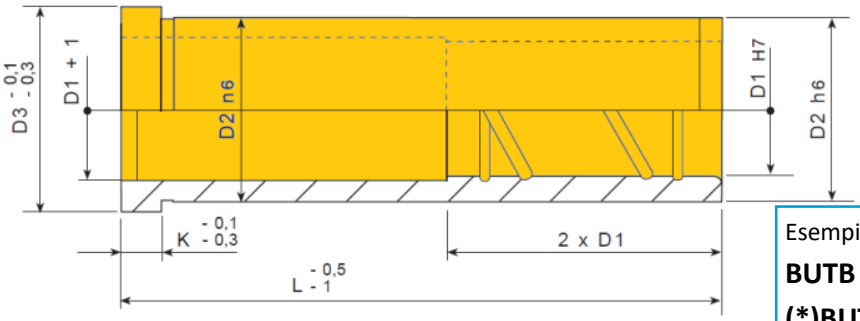
Esempio ordine / *order example*
BUT D1 X L
(*)BUT D1 X L X D2

	ØD1											
	12	14	16	18	20	(*)20	25	(*)25	32	40	50	60
ØD2	18	20	22	26	28	30	34	36	40	48	60	74
ØD3	22	24	26	30	32	34	38	40	45	52	65	84
K	5	5	5	5	6	6	7	7	7	8	10	12

Cod/Ref	L	ØD1											
		12	14	16	18	20	(*)20	25	(*)25	32	40	50	60
BUT	22	●	●	●	●	●	●						
BUT	26	●	●	●	●	●	●	●	●	●			
BUT	36	●	●	●	●	●	●	●	●	●	●		
BUT	46	●	●	●	●	●	●	●	●	●	●		
BUT	56	●	●	●	●	●	●	●	●	●	●		
BUT	66		●	●	●	●	●	●	●	●	●		
BUT	76			●	●	●	●	●	●	●	●	●	
BUT	86			●	●	●	●	●	●	●	●	●	
BUT	96			●	●	●	●	●	●	●	●	●	●
BUT	106					●	●	●	●	●	●	●	●
BUT	116					●	●	●	●	●	●	●	●
BUT	126					●	●	●	●	●	●	●	●
BUT	136									●	●	●	
BUT	146									●	●	●	●
BUT	156											●	●
BUT	176												●
BUT	196												●

BUTB

Materiale: Bronzo
Material: Bronze



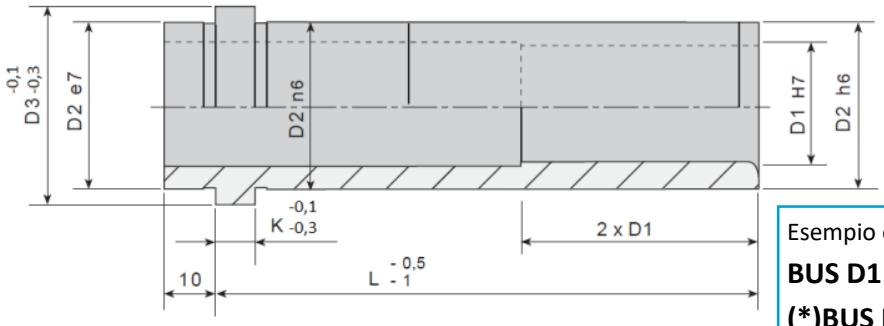
Esempio ordine / *order example*
BUTB D1 X L
(*)BUTB D1 X L X D2

	ØD1								
	16	20	(*)20	25	(*)25	32	40	50	60
ØD2	22	28	30	34	36	40	48	60	74
ØD3	26	32	34	38	40	45	52	65	84
K	5	6	6	7	7	7	8	10	12

Cod/Ref	L	ØD1								
		16	20	(*)20	25	(*)25	32	40	50	60
BUTB	22	●	●	●						
BUTB	26	●	●	●	●	●	●			
BUTB	36	●	●	●	●	●	●	●		
BUTB	46	●	●	●	●	●	●	●		
BUTB	56	●	●	●	●	●	●	●		
BUTB	66	●	●	●	●	●	●	●		
BUTB	76	●	●	●	●	●	●	●	●	
BUTB	86	●	●	●	●	●	●	●	●	
BUTB	96	●	●	●	●	●	●	●	●	●
BUTB	106		●	●	●	●	●	●	●	●
BUTB	116		●	●	●	●	●	●	●	●
BUTB	126		●	●	●	●	●	●	●	●
BUTB	136						●	●	●	
BUTB	146						●	●	●	●
BUTB	156								●	●
BUTB	176									●
BUTB	196									●

BUS

Acciaio / *Steel* 1.7131
Durezza / *Hardened* 61-63 HRC



Esempio ordine / *order example*
BUS D1 X L
(*)BUS D1 X L X D2

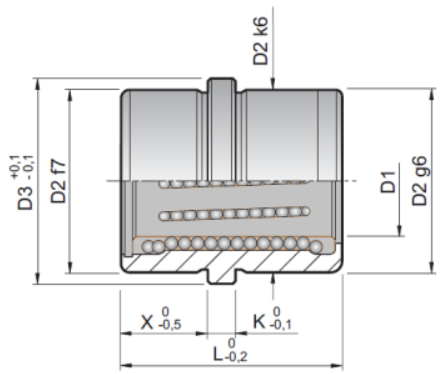
	ØD1						
	16	20	(*)20	25	(*)25	32	40
ØD2	22	28	30	34	36	40	48
ØD3	26	32	34	38	40	45	52
K	5	6	6	7	7	7	8

Cod/Ref	L	ØD1						
		16	20	(*)20	25	(*)25	32	40
BUS	16	●	●	●				
BUS	26	●	●	●	●	●		
BUS	36	●	●	●	●	●	●	
BUS	46	●	●	●	●	●	●	●
BUS	56	●	●	●	●	●	●	●
BUS	66	●	●	●	●	●	●	●
BUS	76	●	●	●	●	●	●	●
BUS	86	●	●	●	●	●	●	●
BUS	96	●	●	●	●	●	●	●
BUS	116						●	●

BRSA / BRSB / BRSC

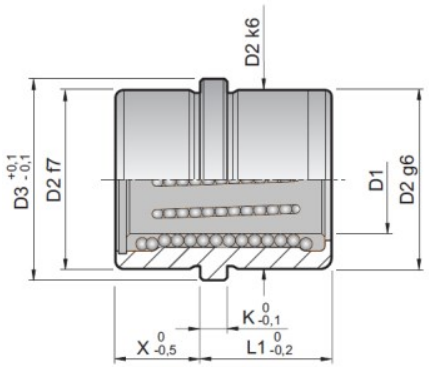
Acciaio / *Steel* 1.7131—Durezza / *Hardened* 60-62 HRC
Sfere / *ball 1.3505* —Durezza / *Hardened* 62-67 HRC

BRSA



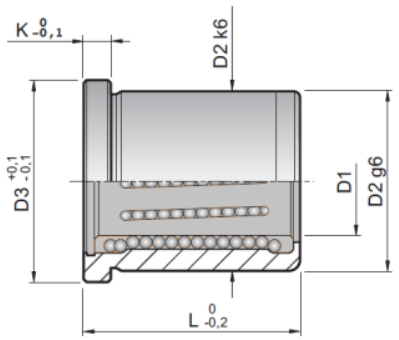
Cod/Ref	ØD1	L	ØD2	ØD3	K	X
BRSA 1226	12	26	22	26	6	6
BRSA 1835	18	35	30	35	6	11
BRSA 2445	24	45	38	43	6	16
BRSA 3055	30	55	46	52	6	21

BRSB



Cod/Ref	ØD1	L1	ØD2	ØD3	K	X
BRSB 1222	12	22	24	28	6	8
BRSB 1622	16	22	28	32	6	8
BRSB 1626	16	26	28	32	6	9
BRSB 2026	20	26	32	36	6	9
BRSB 2035	20	35	32	36	6	9
BRSB 2526	25	26	40	45	6	9
BRSB 2535	25	35	40	45	6	10
BRSB 2545	25	45	40	45	6	10
BRSB 2555	25	55	40	45	6	10
BRSB 3245	32	45	50	56	8	12
BRSB 3263	32	63	50	56	8	12
BRSB 4045	40	45	60	66	8	12
BRSB 4063	40	63	60	66	8	12
BRSB 5055	50	55	70	76	10	25
BRSB 6055	60	55	85	91	10	25

BRSC

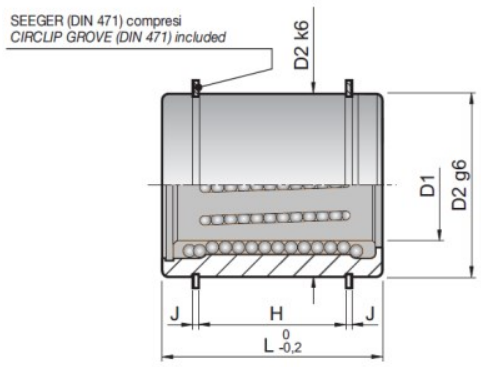


Cod/Ref	ØD1	L	ØD2	ØD3	K
BRSC 2035	20	35	32	36	6
BRSC 2535	25	35	40	45	6
BRSC 2545	25	45	40	45	6
BRSC 2555	25	55	40	45	6
BRSC 3245	32	45	50	56	8
BRSC 3263	32	63	50	56	8
BRSC 4045	40	45	60	66	8
BRSC 4063	40	63	60	66	8

BRSD / BRSH / BRSM

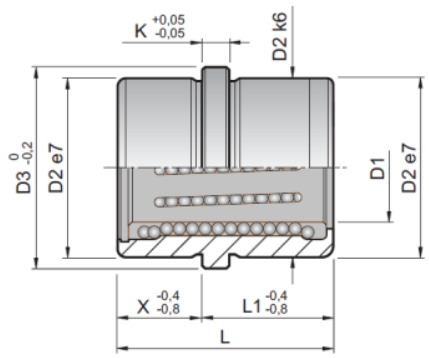
Acciaio / *Steel* 1.7131—Durezza / *Hardened* 60-62 HRC
Sfere / *ball 1.3505* —Durezza / *Hardened* 62-67 HRC

BRSD



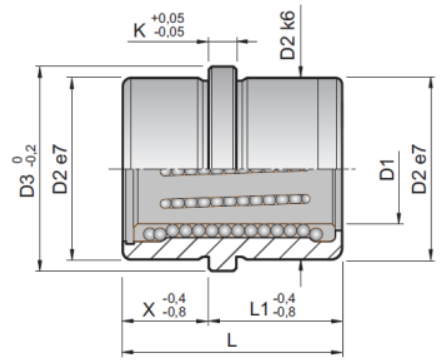
Cod/Ref	ØD1	L1	ØD2	H	J
BRSD 1230	12	30	24	20	1,3
BRSD 1630	16	30	28	19	1,6
BRSD 1635	16	35	28	24	1,6
BRSD 2035	20	35	32	24	1,6
BRSD 2045	20	45	32	34	1,6
BRSD 2535	25	35	40	23	1,8
BRSD 2545	25	45	40	33	1,8
BRSD 2555	25	55	40	43	1,8
BRSD 3245	32	45	50	33	2,1
BRSD 3263	32	63	50	51	2,1
BRSD 4045	40	45	60	33	2,1
BRSD 4063	40	63	60	51	2,1

BRSH



Cod/Ref	ØD1	L1	L	ØD2	ØD3	K	X
BRSH 1217	12	17	26	24	28	6	9
BRSH 1822	18	22	39	32	36	6	17
BRSH 2417	24	17	29	39	43	6	12
BRSH 3022	30	22	39	50	54	6	17

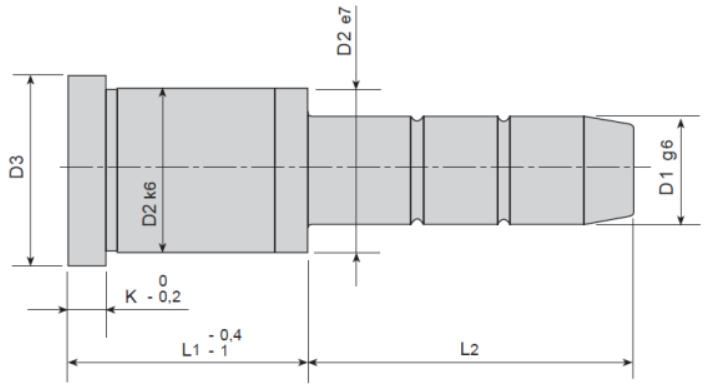
BRSM



Cod/Ref	ØD1	L	L1	ØD2	ØD3	K	X
BRSM 1226	12	26	17	22	25	6	9
BRSM 1229	12	29	17	22	25	6	12
BRSM 1834	18	34	22	30	33	6	12
BRSM 1839	18	39	22	30	33	6	17
BRSM 2444	24	44	27	38	41	6	17
BRSM 2449	24	49	27	38	41	6	22
BRSM 3054	30	54	32	46	49	6	22
BRSM 3063	30	63	36	46	49	6	27

N01

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



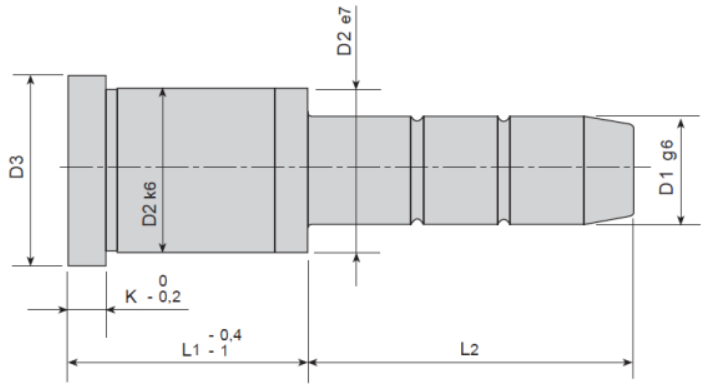
Esempio ordine / *order example*
N01 D1 X L1 X L2

	ØD1							
	9/10	14/15	18/20	22/24	30/32	40/42	50/52	60/62
ØD2	14	20	26	30	42	54	66	80
ØD3	16	25	31	35	47	59	71	86
K	3	6	6	6	6	10	10	20

Cod/ Ref	ØD1	L1	L2																				
			20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	105	110	115	125	135	165
N01	9/10	12						●																
N01	9/10	17	●		●	●																		
N01	9/10	22		●		●				●														
N01	9/10	27		●	●	●		●	●															
N01	9/10	36		●		●		●																
N01	9/10	46			●			●		●				●										
N01	14/15	22	●			●	●	●	●	●		●	●				●			●				
N01	14/15	27	●			●	●	●		●		●				●			●					
N01	14/15	36	●			●	●	●		●		●		●				●						
N01	14/15	46	●			●		●				●				●			●					
N01	14/15	56	●			●				●				●				●						
N01	14/15	66								●		●						●						
N01	14/15	76								●								●						
N01	14/15	86								●								●						
N01	18/20	22	●			●	●	●	●	●	●	●	●		●	●					●			
N01	18/20	27	●			●	●	●	●	●	●	●	●		●	●			●			●		
N01	18/20	36	●			●	●	●	●	●	●	●	●	●	●			●			●		●	
N01	18/20	46	●					●				●				●			●				●	●
N01	18/20	56	●			●				●				●				●						
N01	18/20	66								●				●				●						
N01	18/20	76								●				●				●						
N01	18/20	86								●				●				●						
N01	18/20	96								●								●						
N01	18/20	116																			●			

N01

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



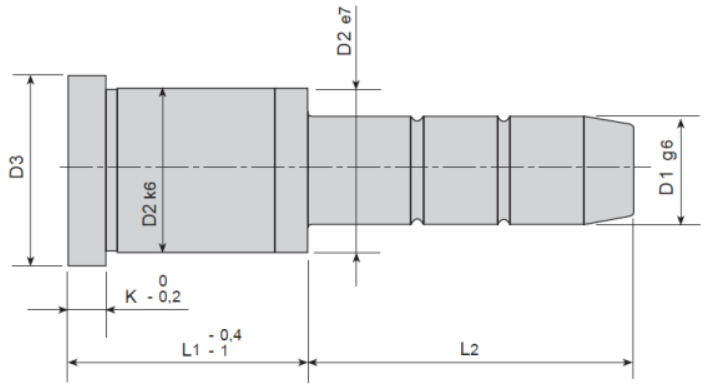
Esempio ordine / *order example*
N01 D1 X L1 X L2

	ØD1							
	9/10	14/15	18/20	22/24	30/32	40/42	50/52	60/62
ØD2	14	20	26	30	42	54	66	80
ØD3	16	25	31	35	47	59	71	86
K	3	6	6	6	6	10	10	20

Cod/ Ref	ØD1	L1	L2																		
			20	25	45	50	55	60	65	70	75	80	85	95	105	115	125	135	155	165	175	195
N01	22/24	27		●	●	●		●	●	●		●	●		●		●			●		
N01	22/24	36		●	●	●	●	●		●	●	●		●		●		●		●		
N01	22/24	46		●	●	●		●	●	●		●	●		●		●			●		
N01	22/24	56		●	●		●				●			●		●				●		
N01	22/24	66					●				●			●								
N01	22/24	76		●	●		●				●			●		●						
N01	22/24	86					●				●			●								
N01	22/24	96					●				●			●								
N01	22/24	116									●					●			●			
N01	22/24	136																●				
N01	30/32	27			●				●						●					●		
N01	30/32	36					●				●			●		●			●			
N01	30/32	46			●				●				●		●		●			●		
N01	30/32	56					●				●			●		●		●			●	
N01	30/32	66					●				●			●		●		●			●	
N01	30/32	76					●				●			●		●			●			
N01	30/32	86					●				●			●		●			●			
N01	30/32	96					●				●			●		●			●			
N01	30/32	116									●					●			●			
N01	30/32	136												●		●			●			
N01	30/32	156														●			●			
N01	30/32	196																	●			●

N01

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



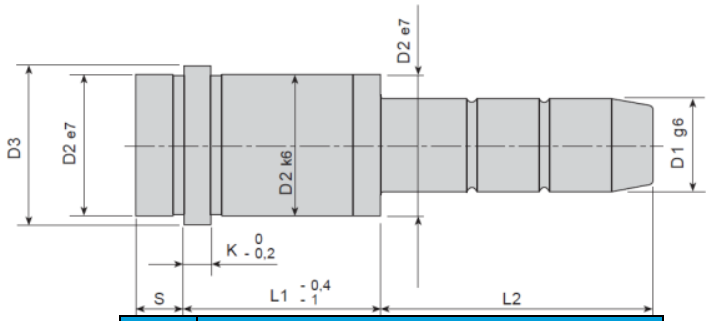
Esempio ordine / *order example*
N01 D1 X L1 X L2

	ØD1							
	9/10	14/15	18/20	22/24	30/32	40/42	50/52	60/62
ØD2	14	20	26	30	42	54	66	80
ØD3	16	25	31	35	47	59	71	86
K	3	6	6	6	6	10	10	20

Cod/ Ref	ØD1	L1	L2												
			75	95	105	115	125	135	155	165	175	195	215	235	275	315
N01	40/42	56	●			●			●			●				
N01	40/42	66	●					●								
N01	40/42	76	●			●					●					
N01	40/42	86	●					●								
N01	40/42	96	●			●			●							
N01	40/42	116		●				●				●				
N01	40/42	136		●				●					●			
N01	40/42	156				●			●				●			
N01	40/42	196							●			●		●		
N01	50/52	96				●			●			●				
N01	50/52	116						●	●			●				
N01	50/52	136						●	●			●				
N01	50/52	156							●			●		●		
N01	50/52	196									●	●		●		
N01	60/62	96				●			●			●				
N01	60/62	116						●	●			●				
N01	60/62	136						●	●			●				
N01	60/62	156							●			●		●		
N01	60/62	196									●	●		●		
N01	60/62	246										●		●	●	●

N02

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



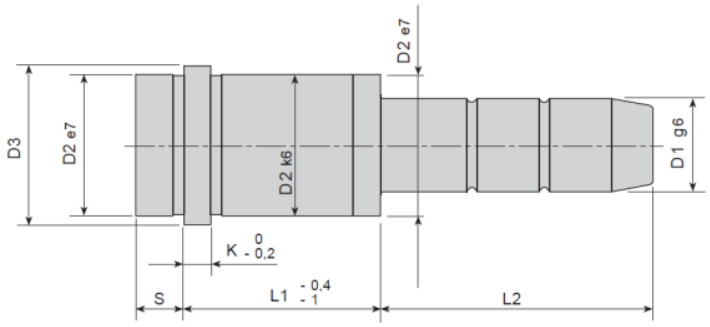
Esempio ordine / *order example*
N02 D1 X L1 X L2

	ØD1					
	9/10	14/15	18/20	22/24	30/32	40/42
ØD2	14	20	26	30	42	54
ØD3	16	25	31	35	47	59
K	3	6	6	6	6	10
S	3	9	9	9	9	12

Cod/Ref	ØD1	L1	L2																										
			20	25	30	35	45	50	55	60	65	70	75	85	90	95	105	110	115	120	125	135	145	150	155	165	225	245	255
N02	9/10	12		•			•				•																		
N02	9/10	17	•	•	•	•		•	•			•	•																
N02	9/10	22		•		•			•				•			•													
N02	9/10	27	•	•	•		•	•				•			•														
N02	9/10	36		•		•	•				•			•															
N02	9/10	46			•	•	•					•																	
N02	9/10	56				•				•																			
N02	14/15	17				•			•				•			•													
N02	14/15	22			•			•				•			•			•			•			•					
N02	14/15	27			•		•				•			•			•				•		•			•			
N02	14/15	36				•			•				•			•					•				•				
N02	14/15	46				•	•				•			•			•				•		•						
N02	14/15	56				•			•				•			•						•							
N02	14/15	66							•		•					•					•								
N02	14/15	76							•							•													
N02	14/15	86							•							•													
N02	14/15	96							•							•													
N02	14/15	116											•																
N02	18/20	17				•			•				•							•									
N02	18/20	22				•	•				•			•					•										
N02	18/20	27				•	•				•			•			•				•					•	•	•	
N02	18/20	36				•			•				•			•			•			•				•	•		•
N02	18/20	46				•	•				•			•			•					•				•		•	
N02	18/20	56				•			•				•			•									•				
N02	18/20	66				•			•				•			•						•							
N02	18/20	76							•				•			•						•							
N02	18/20	86							•				•			•					•								
N02	18/20	96							•							•													
N02	18/20	116											•						•										
N02	18/20	136																				•							

N02

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



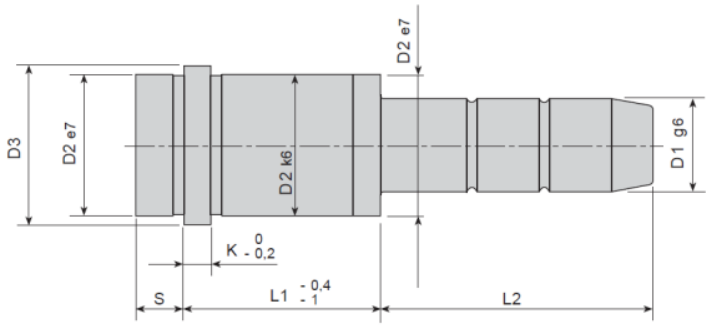
Esempio ordine / *order example*
N02 D1 X L1 X L2

	ØD1					
	9/10	14/15	18/20	22/24	30/32	40/42
ØD2	14	20	26	30	42	54
ØD3	16	25	31	35	47	59
K	3	6	6	6	6	10
S	3	9	9	9	9	12

Cod/Ref	ØD1	L1	L2																	
			35	45	55	65	75	85	95	105	115	125	130	135	145	150	155	165	205	245	285
N02	22/24	17	●		●		●														
N02	22/24	22	●		●		●			●			●								
N02	22/24	27	●	●		●		●		●		●						●	●	●	●
N02	22/24	36	●		●		●		●		●			●				●	●	●	●
N02	22/24	46	●	●		●		●		●		●						●	●		
N02	22/24	56	●		●		●		●		●							●	●		
N02	22/24	66	●		●		●		●								●				
N02	22/24	76			●		●		●		●				●						
N02	22/24	86			●		●		●					●							
N02	22/24	96			●		●		●			●									
N02	22/24	116					●				●						●				
N02	22/24	136							●					●							
N02	22/24	156															●				

N02

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



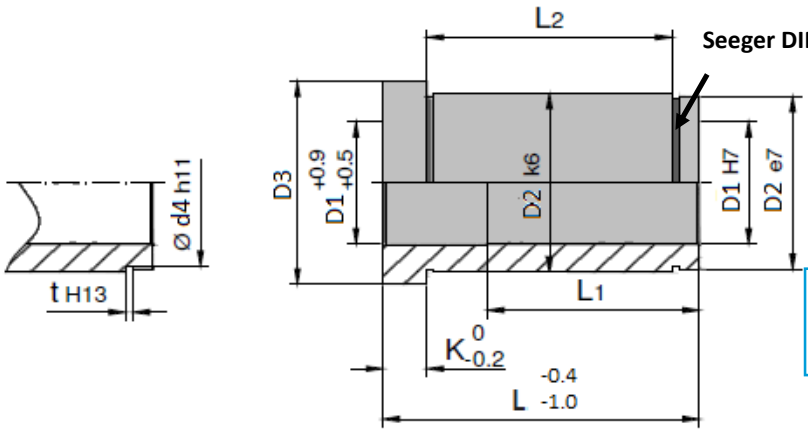
Esempio ordine / *order example*
N02 D1 X L1 X L2

	ØD1					
	9/10	14/15	18/20	22/24	30/32	40/42
ØD2	14	20	26	30	42	54
ØD3	16	25	31	35	47	59
K	3	6	6	6	6	10
S	3	9	9	9	9	12

Cod/Ref	ØD1	L1	L2																						
			45	55	65	75	85	95	105	110	115	125	135	155	165	175	185	195	205	215	225	235	245	285	295
N02	30/32	27	●		●				●						●		●						●	●	
N02	30/32	36		●		●		●			●			●									●	●	
N02	30/32	46	●		●		●		●			●			●								●	●	
N02	30/32	56		●		●		●			●		●			●							●		●
N02	30/32	66		●		●		●			●		●			●							●		●
N02	30/32	76		●		●		●			●			●							●				
N02	30/32	86		●		●		●			●			●							●				
N02	30/32	96		●		●		●			●			●					●						
N02	30/32	116				●					●			●											
N02	30/32	136						●			●			●											
N02	30/32	156									●			●											
N02	30/32	196												●				●							
N02	40/42	46						●							●										
N02	40/42	56				●					●			●				●							
N02	40/42	66				●							●												
N02	40/42	76				●					●					●									
N02	40/42	86				●							●												
N02	40/42	96				●					●			●											
N02	40/42	116						●					●					●							
N02	40/42	136						●					●							●					
N02	40/42	156									●			●						●					
N02	40/42	196												●				●				●			
N02	40/42	246													●								●		

N03

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



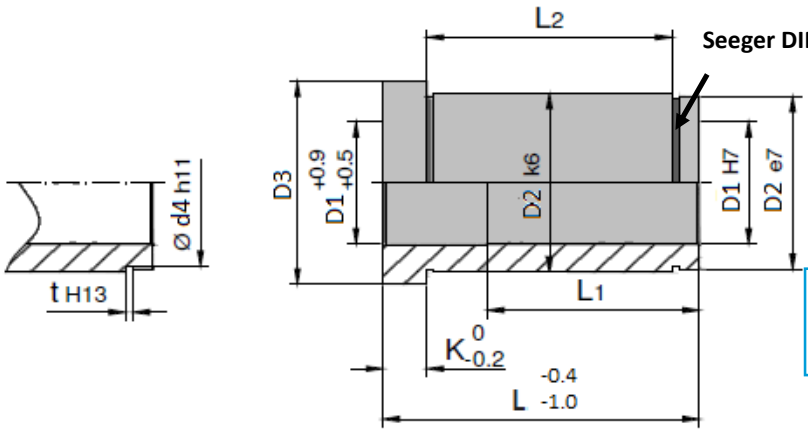
Esempio ordine / *order example*
N03 D1 X L

	ØD1					
	9/10	12	14/15	16	18/20	22/24
ØD2	14	18	20	22	26	30
ØD3	16	23	25	27	31	35
K	3	6	6	6	6	6
Ød4	13,4	17	19	21	24,9	28,6
t	1,1	1,3	1,3	1,3	1,3	1,6

		D1=9/10			D1=12			D1=14/15			D1=16			D1=18/20			D1=22/24		
Cod/Ref	L	L1=0	L1=27	L2	L1=0	L1=36	L2	L1=0	L1=46	L2	L1=0	L1=56	L2	L1=0	L1=56	L2	L1=0	L1=76	L2
N03	9	●		-															
N03	12	●		5,5				●		-									
N03	17	●		10,5	●		7	●		7	●		7	●		7	●		-
N03	22	●		15,5	●		12	●		12	●		12	●		12	●		11
N03	27	●		20,5	●		17	●		17	●		17	●		17	●		16
N03	36		●	29,5	●		26	●		26	●		26	●		26	●		25
N03	46		●	39,5		●	36	●		36	●		36	●		36	●		35
N03	56		●	49,5		●	46		●	46	●		46	●		46	●		45
N03	66		●	59.5					●	56					●	56	●		55
N03	76								●	66		●	66		●	66	●		65
N03	86								●	76					●	76		●	75
N03	96								●	86					●	86		●	85
N03	116														●	106		●	105
N03	136																	●	125
N03	156																	●	145

N03

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



Esempio ordine / *order example*
N03 D1 X L

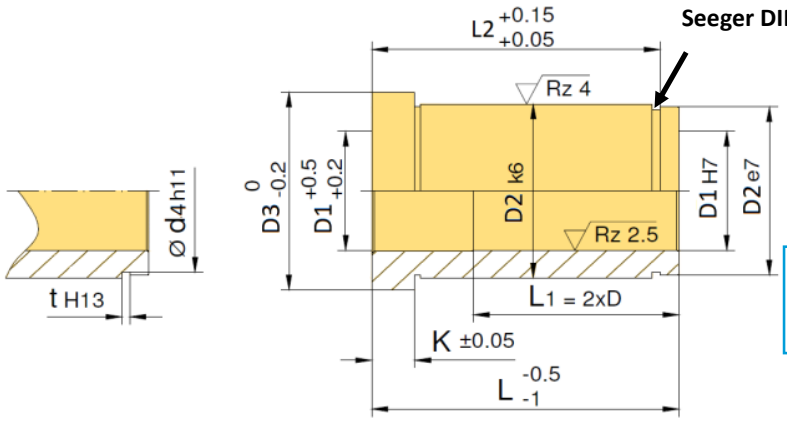
	ØD1				
	30/32	40/42	50/52	60/62	80
ØD2	42	54	66	80	104
ØD3	47	59	71	86	112
K	6	10	10	20	20
Ød4	39,5	51	62	76.5	-
t	1,85	2,15	2,65	-	-

		D1=30/32			D1=40/42			D1=50/52			D1=60/62			D1=80	
Cod/Ref	L	L1=0	L1=96	L2	L1=0	L1=116	L2	L1=0	L1=116	L2	L1=0	L1=136	L2	L1=0	L1=156
N03	22	•													
N03	27	•		14											
N03	36	•		23	•		18								
N03	46	•		33	•		28								
N03	56	•		43	•		38	•		38	•		28		
N03	66	•		53	•		48								
N03	76	•		63	•		58	•		58	•		48		
N03	86	•		73	•		68								
N03	96	•		83	•		78	•		78	•		68	•	
N03	116		•	103	•		98	•		98	•		88	•	
N03	136		•	123		•	118		•	118	•		108	•	
N03	156		•	143		•	138		•	138		•	128	•	
N03	176		•	163		•	158		•	158		•	148		•
N03	186		•	173											
N03	196		•	183		•	178		•	178		•	168		•
N03	216					•	198					•	188		•
N03	236		•	223											
N03	246					•	228					•	218		•

N035

Bronzo / Bronze
t max = 200°c

Seeger DIN471 non fornito / *not provided*



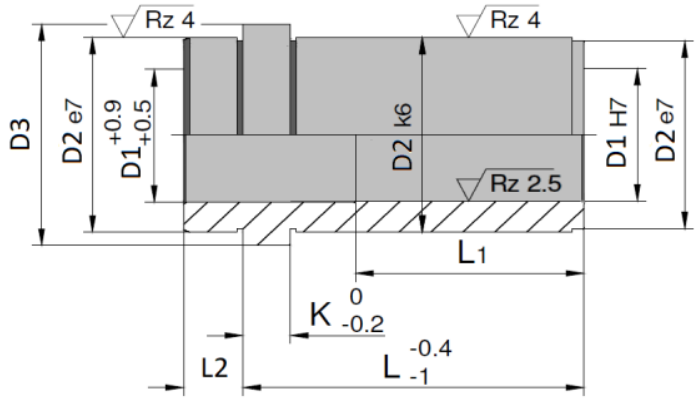
Esempio ordine / *order example*
N035 D1 X L

	ØD1							
	9/10	12	14/15	16	18/20	22/24	30/32	40/42
ØD2	14	18	20	22	26	30	42	54
ØD3	16	23	25	27	31	35	47	60
K	3	6	6	6	6	6	6	10
Ød4	13,4	17	19	21	24,9	28,6	39,5	51
t	1,1	1,3	1,3	1,3	1,3	1,6	1,85	2,15

		D1=9/10	D1=12	D1=14/15	D1=16	D1=18/20	D1=22/24	D1=30/32	D1=40/42
Cod/Ref	L	L2							
N035	12	9,6							
N035	17	14,6	14,3	14,3		14,3			
N035	22	19,6	19,3	19,3	19,3	19,3	18,6		
N035	27	24,6	24,3	24,3	24,3	24,3	23,6	21,9	
N035	36	33,6	33,3	33,3	33,3	33,3	32,6	30,9	
N035	46	43,6	43,3	43,3	43,3	43,3	42,6	40,9	40,2
N035	56	53,6	53,3	53,3	53,3	53,3	52,6	50,9	50,2
N035	66					63,3	62,6	60,9	60,2
N035	76					73,3	72,6	70,9	70,2
N035	86						82,6	80,9	80,2
N035	96						92,6	90,9	90,2
N035	116							110,9	110,2
N035	136								130,2

N04

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



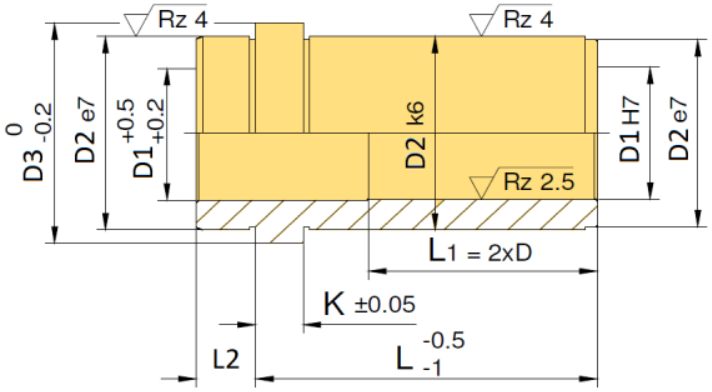
Esempio ordine / *order example*
N04 D1 X L

	ØD1					
	9/10	14/15	18/20	22/24	30/32	40/42
D2	14	20	26	30	42	54
D3	16	25	31	35	47	59
K	3	6	6	6	6	10
L2	3	9	9	9	9	12

		D1=9/10		D1=14/15		D1=18/20		D1=22/24		D1=30/32		D1=40/42	
Cod/Ref	L	L1=0	L1=36	L1=0	L1=46	L1=0	L1=56	L1=0	L1=76	L1=0	L1=96	L1=0	L1=116
N04	12	●											
N04	17	●		●		●		●					
N04	22	●		●		●		●					
N04	27	●		●		●		●		●			
N04	36	●		●		●		●		●		●	
N04	46		●	●		●		●		●		●	
N04	56		●		●	●		●		●		●	
N04	66		●		●		●	●		●		●	
N04	76				●		●	●		●		●	
N04	86				●		●		●	●		●	
N04	96				●		●		●	●		●	
N04	116				●		●		●		●	●	
N04	136						●		●		●		●
N04	156								●		●		●
N04	176										●		●
N04	196										●		●
N04	216												●
N04	246												●

N045

Bronzo / Bronze
t max = 200°c



Esempio ordine / *order example*
N045 D1 X L

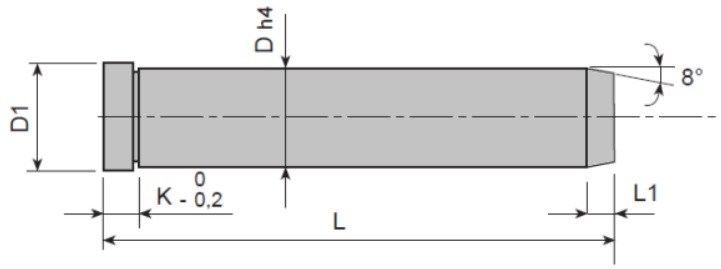
	ØD1					
	9/10	14/15	18/20	22/24	30/32	40/42
D2	14	20	26	30	42	54
D3	16	25	31	35	47	60
K	3	6	6	6	6	10
L2	5	6	8	8	8	10

Cod/Ref	L	D1=9/10	D1=14/15	D1=18/20	D1=22/24	D1=30/32	D1=40/42
N045	12	•					
N045	17	•	•	•			
N045	22	•	•	•	•		
N045	27	•	•	•	•	•	
N045	36	•	•	•	•	•	
N045	46	•	•	•	•	•	•
N045	56	•	•	•	•	•	•
N045	66		•	•	•	•	•
N045	76		•	•	•	•	•
N045	86				•	•	•
N045	96				•	•	•
N045	116				•	•	•
N045	136					•	•
N045	156						•
N045	196						•

N14 / N15

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC

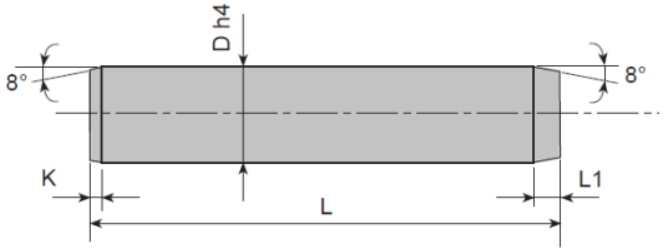
N14 Colonna con testa / *Guide pillars with head*



Cod/Ref	øD	øD1	L1	K	L									
					80	100	120	140	160	180	200	240	280	300
N14	12	16	4	4	●	●	●	●						
N14	18	21	7	6	●	●	●	●	●	●	●	●		
N14	30	36	7	6					●		●	●	●	●

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC

N15 Colonna liscia / *Guide pillars without head*



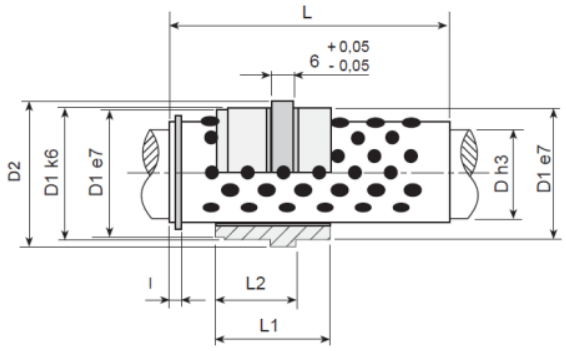
Cod/Ref	øD	L1	K	L							
				80	100	125	140	160	180	200	240
N15	12	4	3	●	●	●					
N15	18	7	3		●	●	●	●	●	●	
N15	30	7	3					●			●

Esempio ordine / *order example* **N14 D X L**
N15 D X L

N13 / N130 / N131

Materiale : OTTONE / *Material BRASS*

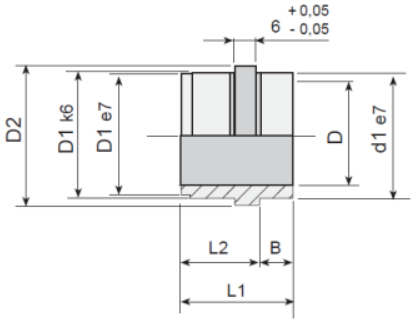
N13 Bussole a sfera completa / Complete *Ball guiding*



Cod/Ref	ØD	L	ØD1	ØD2	l	L1	L2	Corsa max
N13	12	40	22	26	2,5	24	18	50
N13	12	56	22	26	2,5	24	18	82
N13	18	45	30	35	2,8	34	23	44
N13	18	56	30	35	2,8	34	23	66
N13	18	71	30	35	2,8	34	23	96
N13	30	56	46	52	4,8	54	33	32
N13	30	75	46	52	4,8	54	33	70
N13	30	95	46	52	4,8	54	33	110

N130 Bussola esterna / *Bushings for ball cages*

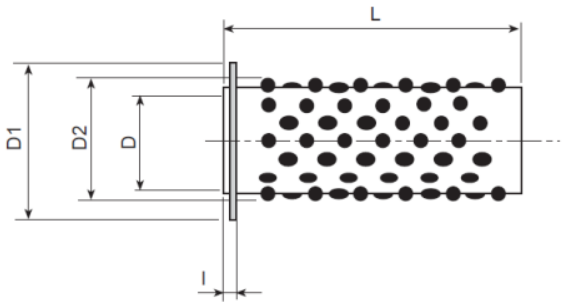
Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



Cod/Ref	ØD	ØD1	ØD2	L1	L2	B
N130	16	22	26	24	18	6
N130	24	30	35	34	23	11
N130	38	46	52	54	33	21

Materiale : OTTONE / *Material BRASS*

N131 Bussola con sfera / *Ball cages*

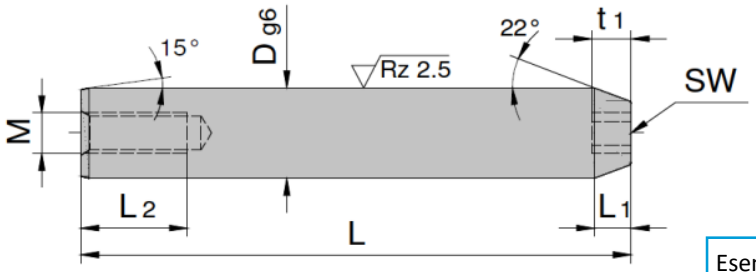


Cod/Ref	ØD	L	ØD1	ØD2	l
N131	12	40	20,5	16	2,5
N131	12	56	20,5	16	2,5
N131	18	45	28,6	24	2,8
N131	18	56	28,6	24	2,8
N131	18	71	28,6	24	2,8
N131	30	56	43,5	38	4,8
N131	30	75	43,5	38	4,8
N131	30	95	43,5	38	4,8

Esempio ordine / *order example* **N13 D X L**
N130 D
N131 D X L

N074

Acciaio / *Steel* 1.7139
Durezza / *Hardened* 58-62 HRC



Esempio ordine / *order example*
N074 D X L

	ØD												
	8	10	12	14	15	16	18	18*	20	22	24	30	32
M	5	6	6	6	8	8	8	10	10	10	12	16	16
L1	2,3	4	5	5	5	5	7	7	7	7	7	7	7
L2	10	10	10	10	17	17	17	17	20	20	25	30	30
t1	4	4	5	5	5	6	6	6	8	8	8	10	10
SW	4	4	5	5	5	6	6	6	8	8	8	10	10

Cod/ Ref	ØD	L																						
		40	50	60	70	75	80	90	100	110	120	125	130	140	145	150	160	165	170	180	190	200	210	220	240
N074	8	●		●			●		●																
N074	10	●		●	●		●		●		●														
N074	12		●	●			●		●		●			●			●								
N074	14		●	●	●	●	●	●	●		●			●			●			●					
N074	15		●	●	●		●	●																	
N074	16			●			●	●	●	●	●		●	●			●			●		●		●	
N074	18			●	●		●	●	●	●	●	●		●		●	●		●	●		●		●	
N074	18*			●	●		●	●	●			●		●		●			●						
N074	20			●	●		●	●	●	●	●	●		●		●	●	●	●	●	●	●	●	●	●
N074	22			●	●		●	●	●		●			●			●			●		●		●	●
N074	24			●	●		●	●	●		●			●	●		●			●	●	●		●	●
N074	30						●	●	●		●			●						●				●	
N074	32						●	●	●		●			●						●				●	

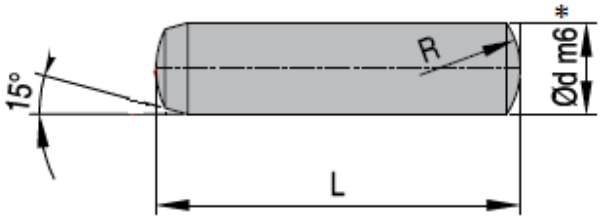
Coppie di serraggio / *Tightening torques*

M5	M6	M8	M10
4,9nM	8,0Nm	20,0Nm	40,0nM
6,0nM	10,0Nm	25,0Nm	49,0Nm

*** Su richiesta / *on request***

SC

DIN 6325
Acciaio con resistenza a trazione min 600N/mm2
Steel with a tensil strength of min 600N/m2
Durezza / *Hardened* 58-62 HRC



Cod Ref	Ød	L																									
		4	5	6	8	10	12	14	16	18	20	24	28	30	32	36	40	45	50	55	60	70	80	90	100	120	140	150
SC	1**	●	●	●	●	●	●																					
SC	1,5**		●	●	●	●	●	●	●	●	●	●																
SC	2			●	●	●	●	●	●	●	●	●	●	●														
SC	2,5**			●	●	●	●	●	●	●	●	●	●	●	●													
SC	3			●	●	●	●	●	●	●	●	●	●	●	●	●	●											
SC	4			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
SC	5					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
SC	6					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
SC	8								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SC	10									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SC	12										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SC	14																●	●	●	●	●	●	●	●	●	●	●	●
SC	16																●	●	●	●	●	●	●	●	●	●	●	●
SC	18																●	●	●	●	●	●	●	●	●	●	●	●
SC	20																●	●	●	●	●	●	●	●	●	●	●	●

Esempio ordine / *order example* **SC d X L**

*** Su richiesta con tolleranza h6**

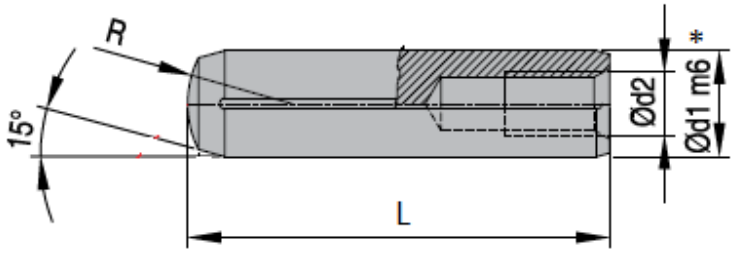
****Solo fornibili con tolleranza m6**

**** On request with tollerance h6***

****Only available with tollerance m6**

SCF

DIN 7979
Acciaio con resistenza a trazione min 600N/mm2
Steel with a tensil strength of min 600N/m2
Durezza / *Hardened* 58-62 HRC



Cod Ref	Ød1	Ød2	L																	
			20	24	28	30	32	36	40	45	50	55	60	70	80	90	100	120	140	150
SCF	6	4MA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
SCF	8	5MA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
SCF	10	6MA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SCF	12	6MA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SCF	14	8MA							●	●	●	●	●	●	●	●	●	●	●	●
SCF	16	8MA							●	●	●	●	●	●	●	●	●	●	●	●
SCF	18	10MA									●	●	●	●	●					
SCF	20	10MA							●	●	●	●	●	●	●	●	●	●	●	●

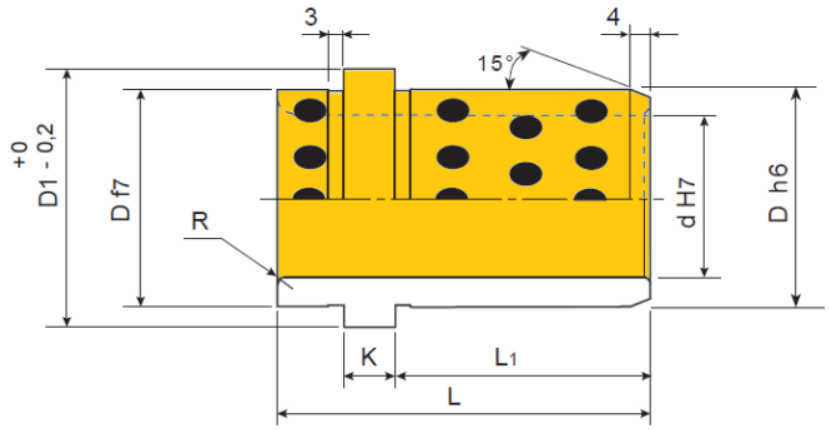
Esempio ordine / *order example* **SCF d1 X L**

*** Su richiesta con tolleranza h6**

*** On request with tollerance h6**

SOEG

Materiale : Bronzo con inserti in grafite
Material : Bronze with graphite inserts



Cod/Ref	ød	L	L1	K	øD	øD1	R
SOEG025043	25	43	24	7,5	35	40	3
SOEG030043	30	43	24	7,5	42	47	3
SOEG040060	40	60	35,5	6	50	59,9	4
SOEG040064	40	64	39,5	6	50	59,9	4
SOEG050077	50	77	44,5	8	63	71,9	4
SOEG050092	50	92	55,5	8	63	71,9	4
SOEG060078	60	78	49	7,5	80	86	3
SOEG063095	63	95	55,5	8	80	89,9	4
SOEG063100	63	100	62,5	8	80	89,9	4
SOEG063108	63	108	62,5	8	80	89,9	4

COMAT srl

via Primo Maggio 89 20863 Concorezzo (MB)
Tel.:+39-039-6042877 email: commerciale@comat.it
www.comat.it