



# V-BELT PULLEYS

## V-BELT PULLEYS FOR TAPER BUSHES

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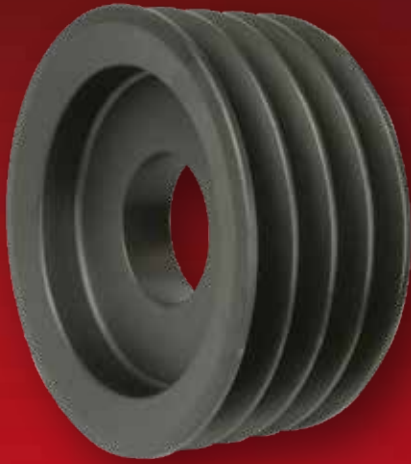
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# CAST- IRON V-BELT PULLEYS





# CAST- IRON V-BELT PULLEYS

All V-belt pulleys are compliant with current legislation and are made of cast iron **GG 20** with protective phosphate.

Running in normal standard, the pulleys are statically balanced and this is sufficient for peripheral speeds up to **25 m/s**.

For higher speeds is essential dynamic balancing can be provided on request.

**The Chiaravalli Group SpA is able to perform, upon request, balancing pulleys with diameters up to 630, with balancing CNC, accompanying certificate of balancing performed.**

Over 35 m / sec, the pulleys in cast iron are not the most suitable and it requires the use of high-strength material.

D = diameter in meters

N = number of revolutions per minute

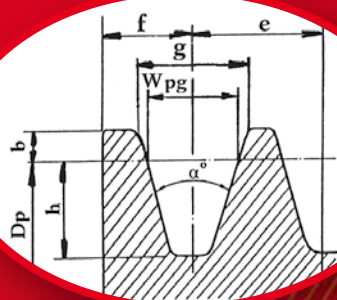
$$V_p = \frac{\pi \cdot D \cdot n}{60} = \frac{D \cdot n}{19,1} \text{ m/sec.}$$

Dimensions shown on the dimensional tables are not binding even if they are respected as far as possible.

We reserve the right to make variations and modifications without prior notice.

## FEATURES OF THE GORGE

PROFILE	Dp mm	a°	W pg	g	h	b mm	f	e
<b>SPZ</b>	< 80	34°	8,5	9,7	9	2	8	12
	> 80	38°						
<b>SPA</b>	< 118	34°	11	12,7	11	2,8	10	15
	> 118	38°						
<b>SPB</b>	< 190	34°	14	16,3	14	3,5	12,5	19
	> 190	38°						
<b>SPC</b>	< 315	34°	19	22,0	19	4,8	17	25,5
	> 315	38°						

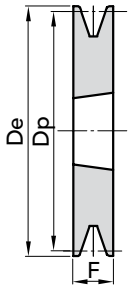


## BAND WIDTH

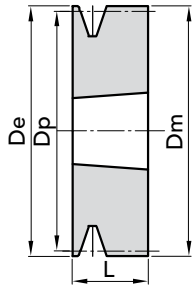
N° GROOVES	SPZ	SPA	SPB	SPC
1	16	20	25	34
2	28	35	44	59,5
3	40	50	63	85
4	52	65	82	111
5	64	80	101	136
6		95	120	162
8			158	213
10			196	264



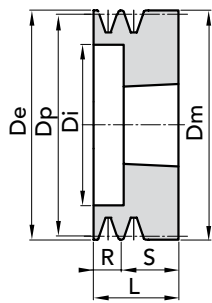
V-BELT PULLEYS for TAPER BUSHES



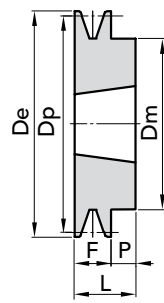
EXEC. 1



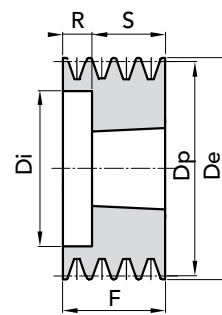
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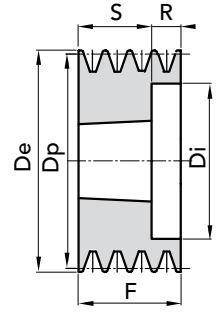
EXEC. 3



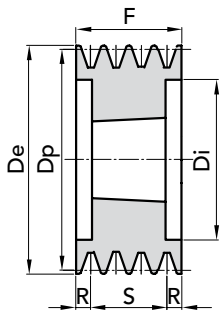
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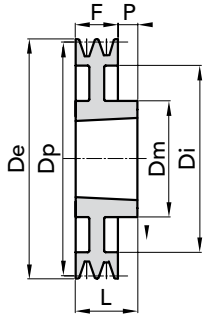
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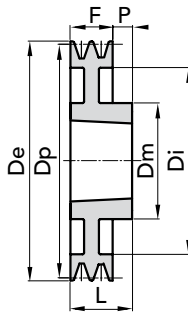
EXEC. 6



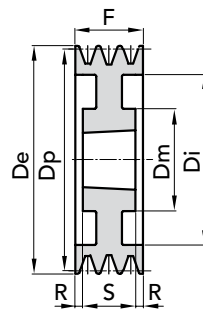
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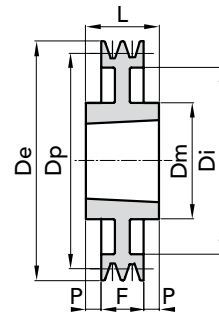
EXEC. 8



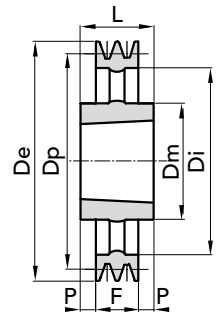
EXEC. 8A



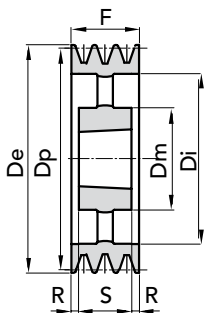
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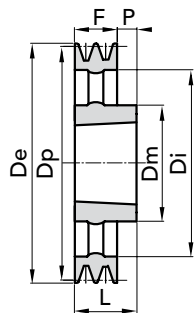
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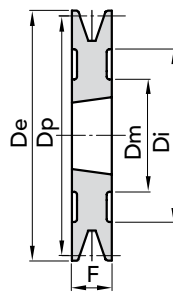
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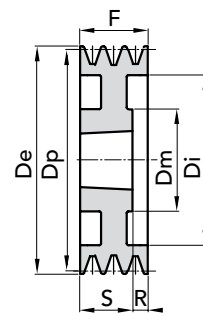
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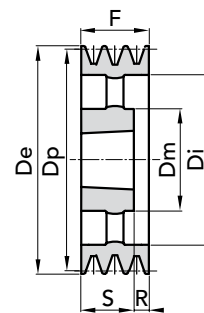
EXEC. 13



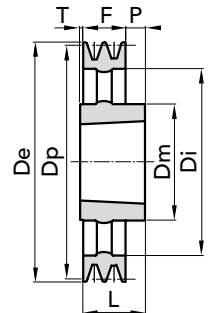
EXEC. 14



EXEC. 15



EXEC. 16



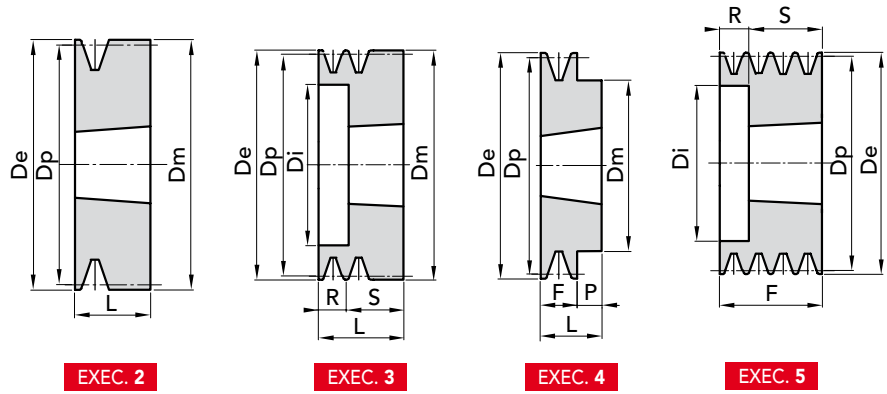
EXEC. 17



## TAPER BUSHES

### SPZ TYPE

We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



V-BELT PULLEYS for TAPER BUSHES

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													
Kg.													
60	91100601	1	2	1108	64,6		64,6		22				0,50
	91100602	2	3	1108	64,6	36	64,6		49		27	22	0,60
63	91100631	1	4	1108	67,6		62	16	22	6			0,40
	91100632	2	5	1108	67,6	40		28			6	22	0,50
	91100633	3	5	1108	67,6	40		40			18	22	0,50
67	91100671	1	4	1108	71,6		62	16	22	6			0,50
	91100672	2	5	1108	71,6	42		28			6	22	0,50
	91100673	3	5	1108	71,6	42		40			18	22	0,70
71	91100711	1	4	1108	75,6		62	16	22	6			0,50
	91100712	2	5	1108	75,6	42		28			6	22	0,50
	91100713	3	5	1108	75,6	42		40			18	22	0,70
75	91100751	1	4	1108	79,6		62	16	22	6			0,60
	91100752	2	5	1210	79,6	51		28			3	25	0,60
	91100753	3	5	1210	79,6	48		40			15	25	0,80
80	91100801	1	4	1210	84,6		75	16	25	9			0,60
	91100802	2	5	1210	84,6	51		28			3	25	0,70
	91100803	3	5	1210	84,6	51		40			15	25	0,80
	91100804	4	5	1210	84,6	51		52			27	25	0,90
85	91100851	1	4	1210	89,6		75	16	25	9			0,80
	91100852	2	5	1610	89,6	60		28			3	25	0,70
	91100853	3	5	1610	89,6	60		40			15	25	0,80
	91100854	4	5	1610	89,6	60		42			27	25	1,00
	91100855	5	5	1610	89,6	60		64			39	25	1,30
90	91100901	1	4	1210	94,6		75	16	25	9			0,80
	91100902	2	5	1610	94,6	61		28			3	25	0,80
	91100903	3	5	1610	94,6	61		40			15	25	0,90
	91100904	4	5	1610	94,6	61		42			27	25	1,10
	91100905	5	5	1610	94,6	61		64			39	25	1,40
95	91100951	1	4	1210	99,6		75	16	25	9			0,90
	91100952	2	5	1610	99,6	66		28			3	25	0,80
	91100953	3	5	1610	99,6	66		40			15	25	1,10
	91100954	4	5	1610	99,6	66		52			27	25	1,30
	91100955	5	5	1610	99,6	66		64			39	25	1,50
100	91101001	1	4	1210	104,6		75	16	25	9			0,90
	91101002	2	5	1610	104,6	71		28			3	25	1,20
	91101003	3	5	1610	104,6	71		40			15	25	1,20
	91101004	4	5	1610	104,6	72		52			27	25	1,40
	91101005	5	5	2012	104,6	72		64			32	32	1,60
106	91101061	1	4	1610	110,6		80	16	25	9			1,00
	91101062	2	5	1610	110,6	76		28			3	25	1,20
	91101063	3	5	1610	110,6	78		40			15	25	1,40
	91101064	4	5	1610	110,6	80		52			27	25	1,60
	91101065	5	5	2012	110,6	78		64			32	32	1,80

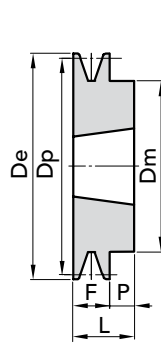
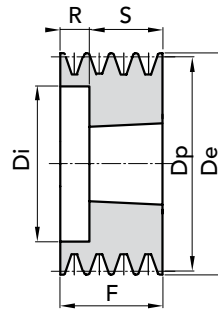
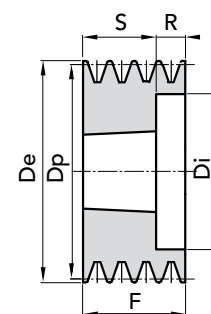
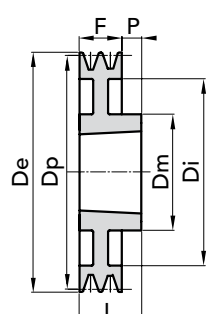
MATERIAL **CAST-IRON**

CAD drawings available on our site  
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**TAPER BUSHES**
**SPZ TYPE**

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**EXEC. 4**

**EXEC. 5**

**EXEC. 6**

**EXEC. 8**

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													
Kg.													
112	91101121	1	4	1610	116,6		80	16	25	9			1,10
	91101122	2	5	1610	116,6	84		28			3	25	1,30
	91101123	3	5	2012	116,6	84		40			8	32	1,50
	91101124	4	5	2012	116,6	86		52			20	32	1,60
	91101125	5	5	2012	116,6	84		64			32	32	1,90
118	91101181	1	4	1610	122,6		80	16	25	9			1,30
	91101182	2	5	1610	122,6	90		28			3	25	1,40
	91101183	3	5	2012	122,6	92		40			8	32	1,60
	91101184	4	5	2012	122,6	92		52			20	32	1,90
	91101185	5	5	2012	122,6	90		64			32	32	2,40
125	91101251	1	4	1610	129,6		80	16	25	9			1,40
	91101252	2	5	1610	129,6	97		28			3	25	1,70
	91101253	3	6	2012	129,6	97		40			8	32	2,00
	91101254	4	6	2012	129,6	99		52			20	32	2,20
	91101255	5	5	2012	129,6	97		64			32	32	2,80
132	91101321	1	4	1610	136,6		80	16	25	9			1,50
	91101322	2	5	1610	136,6	104		28			3	25	2,00
	91101323	3	6	2012	136,6	104		40			8	32	2,40
	91101324	4	6	2012	136,6	104		52			20	32	2,60
	91101325	5	5	2517	136,6	104		64			19	45	2,80
140	91101401	1	4	1610	144,6		80	16	25	9			1,50
	91101402	2	5	1610	144,6	112		28			3	25	2,20
	91101403	3	6	2012	144,6	112		40			8	32	2,80
	91101404	4	6	2012	144,6	112		52			20	32	3,00
	91101405	5	6	2517	144,6	112		64			19	45	3,20
150	91101501	1	4	1610	154,6		80	16	25	9			1,60
	91101502	2	4	2012	154,6		100	28	32	4			2,30
	91101503	3	6	2012	154,6	122		40			8	32	3,40
	91101504	4	6	2517	154,6	122		52			7	45	3,60
	91101505	5	6	2517	154,6	122		64			19	45	3,90
160	91101601	1	4	1610	164,6		80	16	25	9			1,70
	91101602	2	4	2012	164,6		100	28	32	4			3,10
	91101603	3	6	2012	164,6	132		40			8	32	3,60
	91101604	4	6	2517	164,6	132		52			7	45	4,50
	91101605	5	6	2517	164,6	132		64			19	45	4,70
180	91101801	1	4	1610	184,6		80	16	25	9			2,00
	91101802	2	8	2012	184,6	152	100	28	32	4			2,90
	91101803	3	6	2012	184,6	152		40			8	32	3,70
	91101804	4	6	2517	184,6	152		52			7	45	6,30
	91101805	5	6	2517	184,6	152		64			19	45	6,80

**MATERIAL CAST-IRON**

CAD drawings available on our site  
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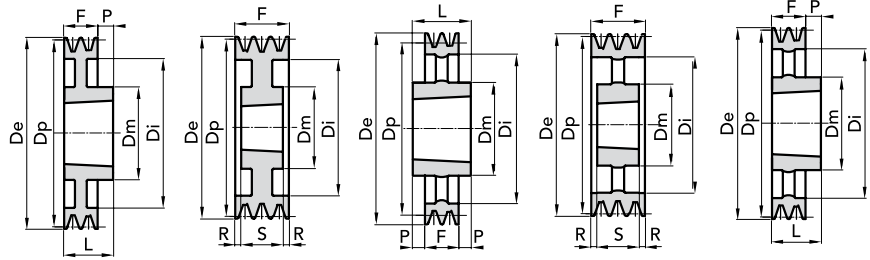
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## TAPER BUSHES

### SECTION **SPZ**

We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



ESEC. 8

ESEC. 9

ESEC. 11

ESEC. 12

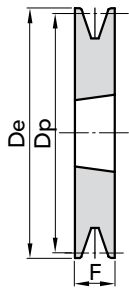
ESEC. 13

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
190	91101902	2	8	2012	194,6	160	100	28	32	4			3,10
	91101903	3	9	2012	194,6	160	105	40			4	32	3,40
	91101904	4	9	2517	194,6	160	120	52			3,5	45	5,30
200	91102001	1	8	2012	204,6	172	100	16	32	16			3,40
	91102002	2	8	2012	204,6	172	100	28	32	4			3,50
	91102003	3	9	2012	204,6	172	100	40			4	32	4,30
	91102004	4	9	2517	204,6	172	120	52			3,5	45	5,40
	91102005	5	9	2517	204,6	172	120	64			9,5	45	8,80
224	91102241	1	8	2012	228,6	196	100	16	32	16			3,60
	91102242	2	8	2012	228,6	196	100	28	32	4			4,50
	91102243	3	9	2012	228,6	196	100	40			4	32	5,40
	91102244	4	9	2517	228,6	196	120	52			3,5	45	7,00
	91102245	5	9	2517	228,6	196	120	64			9,5	45	8,80
250	91102501	1	11	2012	254,6	222	100	16	32	8			4,60
	91102502	2	11	2012	254,6	222	100	28	32	2			5,40
	91102503	3	12	2012	254,6	222	100	40			4	32	6,40
	91102504	4	12	2517	254,6	222	120	52			3,5	45	8,00
	91102505	5	12	2517	254,6	222	120	64			9,5	45	9,00
280	91102801	1	11	2012	284,6	252	100	16	32	8			5,50
	91102802	2	11	2012	284,6	252	100	28	32	2			6,20
	91102803	3	11	2517	284,6	252	120	40	45	2,5			8,30
	91102804	4	12	2517	284,6	252	120	52			3,5	45	9,50
	91102805	5	12	2517	284,6	252	120	64			9,5	45	11,00
315	91103151	1	11	2012	319,6	287	100	16	32	8			6,70
	91103152	2	11	2012	319,6	287	100	28	32	2			7,20
	91103153	3	11	2517	319,6	287	120	40	45	2,5			10,10
	91103154	4	12	2517	319,6	287	120	52			3,5	45	12,10
	91103155	5	12	2517	319,6	287	120	64			9,5	45	13,30
355	91103551	1	11	2012	359,6	326	100	16	32	8			6,80
	91103552	2	11	2012	359,6	326	100	28	32	2			8,60
	91103553	3	11	2517	359,6	326	120	40	45	2,5			11,70
	91103554	4	12	2517	359,6	326	120	52			3,5	45	12,80
	91103555	5	12	2517	359,6	326	120	64			9,5	45	13,00
400	91104001	1	11	2012	404,6	371	112	16	32	8			6,90
	91104002	2	11	2517	404,6	371	125	28	45	8,5			9,90
	91104003	3	11	2517	404,6	371	125	40	45	2,5			13,30
	91104004	4	12	2517	404,6	371	125	52	45		3,5		13,60
	91104005	5	12	3020	404,6	371	158	64	51		6,5		15,60
450	91104501	1	11	2517	454,6	421	125	16	45	14,5			7,20
	91104502	2	11	2517	454,6	421	125	28	45	8,5			11,20
	91104503	3	11	2517	454,6	421	125	40	45	2,5			14,60
	91104504	4	12	3020	454,6	421	158	52	51		0,5		14,50
	91104505	5	12	3020	454,6	421	158	64	51		8,5		19,00
500	91105002	2	11	2517	504,6	471	125	28	45	8,5			10,50
	91105003	3	11	2517	504,6	471	125	40	45	2,5			15,80
	91105004	4	12	3020	504,6	471	158	52	51		0,5		17,34
	91105005	5	12	3030	504,6	471	148	64	76	6			22,60

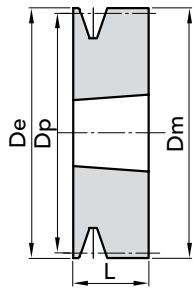
MATERIAL **CAST-IRON**

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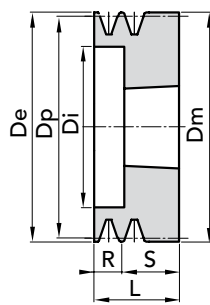
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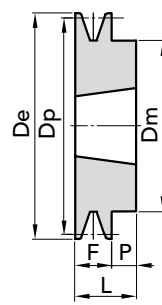
EXEC. 1



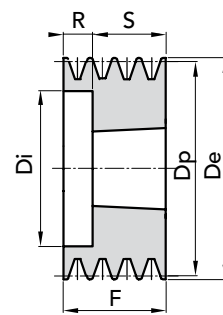
EXEC. 2



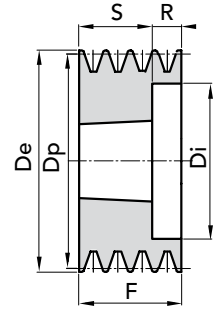
EXEC. 3



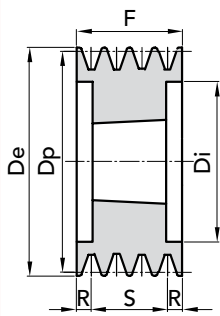
EXEC. 4



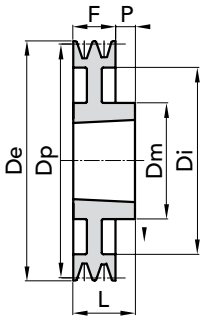
EXEC. 5



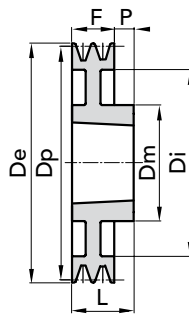
EXEC. 6



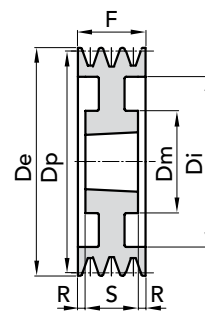
EXEC. 7



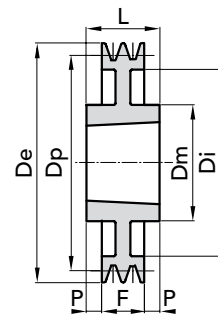
EXEC. 8



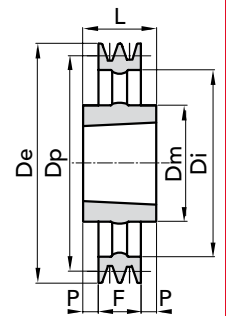
EXEC. 8A



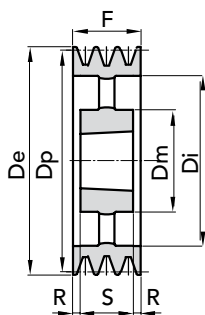
EXEC. 9



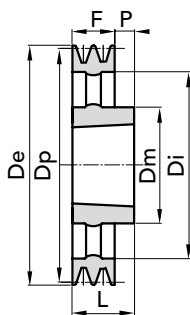
EXEC. 10



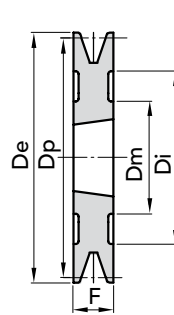
EXEC. 11



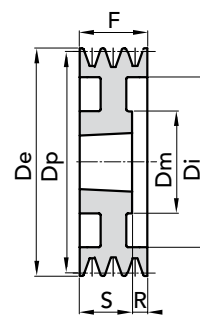
EXEC. 12



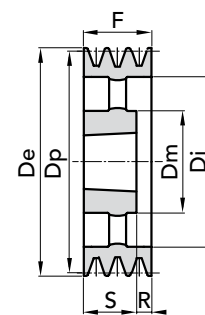
EXEC. 13



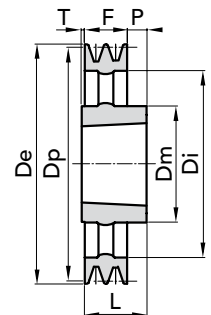
EXEC. 14



EXEC. 15



EXEC. 16



EXEC. 17

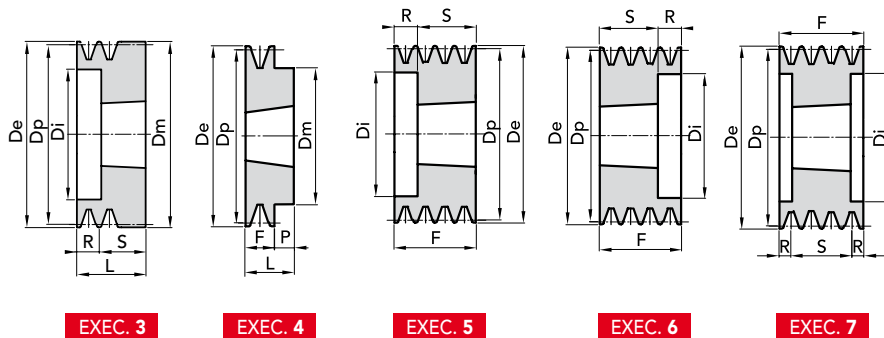




## TAPER BUSHES

### SPA TYPE

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EXEC. 3

EXEC. 4

EXEC. 5

EXEC. 6

EXEC. 7

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
63	91200631	1	3	1008	69,1	37	56	20	40	2	18	22	0,80
71	91200711	1	4	1108	77,1		62	20	22	2			0,50
	91200712	2	5	1108	77,1	40	62	35	22	2	13	22	0,60
	91200713	3	5	1108	77,1	40	62	50			28	22	0,80
75	91200751	1	4	1108	81,1		62	20	22	2			0,60
	91200752	2	5	1108	81,1	44	62	35			13	22	0,70
	91200753	3	5	1108	81,1	44	62	50			28	22	0,90
80	91200801	1	4	1210	86,1		75	20	25	5			0,70
	91200802	2	5	1210	86,1	47	75	35			10	25	0,70
	91200803	3	5	1210	86,1	47	75	50			25	25	1,10
85	91200851	1	4	1210	91,1		75	20	25	5			0,70
	91200852	2	5	1210	91,1	50	75	35			10	25	0,80
	91200853	3	5	1210	91,1	50	75	50			25	25	1,20
90	91200901	1	4	1210	96,1		75	20	25	5			0,80
	91200902	2	5	1610	96,1	60	75	35			10	25	0,90
	91200903	3	5	1610	96,1	60	75	50			25	25	1,30
95	91200951	1	4	1210	101,1		75	20	25	5			0,90
	91200952	2	5	1610	101,1	64	75	35			10	25	1,00
	91200953	3	5	1610	101,1	64	75	50			25	25	1,50
	91200954	4	7	1615	101,1	64	75	65			13,5	38	1,40
100	91201001	1	4	1610	106,1		80	20	25	5			1,00
	91201002	2	5	1610	106,1	70	80	35			10	25	1,10
	91201003	3	6	1610	106,1	70	80	50			25	25	1,30
	91201004	4	6	1615	106,1	70	80	65			27	38	1,80
	91201005	5	6	1615	106,1	70	80	80			42	38	2,10
106	91201061	1	4	1610	112,1		80	20	25	5			1,20
	91201062	2	5	1610	112,1	76	80	35			10	25	1,20
	91201063	3	6	1610	112,1	76	80	50			25	25	1,60
	91201064	4	5	2012	112,1	76	80	65			33	32	2,10
	91201065	5	5	2012	112,1	76	80	80			48	32	2,30
112	91201121	1	4	1610	118,1		80	20	25	5			1,30
	91201122	2	5	1610	118,1	80	80	35			10	25	1,40
	91201123	3	5	2012	118,1	80	80	50			18	32	1,60
	91201124	4	5	2012	118,1	80	80	65			33	32	2,00
	91201125	5	5	2012	118,1	80	80	80			48	32	2,50
118	91201181	1	4	1610	124,1		80	20	25	5			1,40
	91201182	2	6	1610	124,1	86	80	35			10	25	1,70
	91201183	3	6	2012	124,1	86	80	50			18	32	1,90
	91201184	4	6	2012	124,1	86	80	65			33	32	2,30
	91201185	5	6	2012	124,1	86	80	80			48	32	2,80
125	91201251	1	4	1610	131,1		80	20	25	5			1,50
	91201252	2	5	1610	131,1	90	80	35			10	25	1,90
	91201253	3	6	2012	131,1	92	80	50			18	32	2,70
	91201254	4	6	2012	131,1	92	80	65			33	32	3,00
	91201255	5	7	2012	131,1	92	80	80			24	32	3,00

MATERIAL **CAST-IRON**

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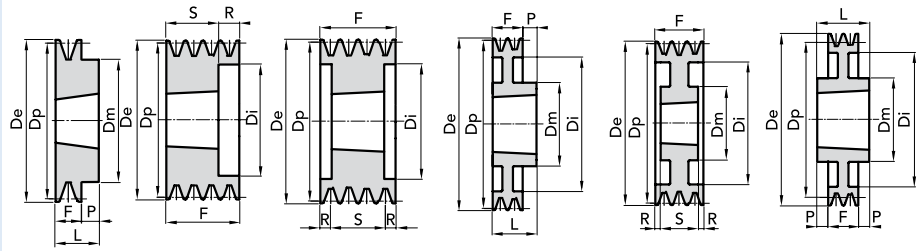
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## TAPER BUSHES

## SPA TYPE

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EXEC. 4

ESEC. 6

ESEC. 7

ESEC. 8

ESEC. 9

ESEC. 10

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													
Kg.													
132	91201321	1	4	1610	138,1		80	20	25	5			1,60
	91201322	2	5	2012	138,1	98		35			3	32	2,10
	91201323	3	6	2012	138,1	98		50			18	32	2,90
	91201324	4	6	2517	138,1	98		65			20	45	3,20
	91201325	5	7	2517	138,1	98		80			17,5	45	3,50
140	91201401	1	4	1610	146,1		80	20	25	5			1,70
	91201402	2	5	2012	146,1	106		35			3	32	2,60
	91201403	3	5	2517	146,1	106		50			5	45	3,20
	91201404	4	6	2517	146,1	106		65			20	45	3,50
	91201405	5	7	2517	146,1	106		80			17,5	45	3,90
150	91201501	1	4	1610	156,1		80	20	25	5			2,00
	91201502	2	5	2012	156,1	116		35			3	32	3,20
	91201503	3	5	2517	156,1	116		50			5	45	3,50
	91201504	4	6	2517	156,1	116		65			20	45	3,90
	91201505	5	7	2517	156,1	116		80			17,5	45	4,40
160	91201601	1	4	1610	166,1		80	20	25	5			2,40
	91201602	2	5	2012	166,1	125		35			3	32	3,60
	91201603	3	5	2517	166,1	126		50			5	45	4,50
	91201604	4	6	2517	166,1	126		65			20	45	5,10
	91201605	5	7	2517	166,1	126		80			17,5	45	5,70
170	91201701	1	4	1610	176,1		80	20	25	5			1,10
	91201702	2	5	2012	176,1	135		35			3	32	4,50
	91201703	3	5	2517	176,1	138		50			5	45	5,00
	91201704	4	6	2517	176,1	138		65			20	45	5,80
	91201705	5	7	3020	176,1	138		80			14,5	51	6,30
180	91201801	1	4	1610	186,1		80	20	25	5			2,50
	91201802	2	9	2012	186,1	148	100	35			1,5	32	5,00
	91201803	3	5	2517	186,1	146		50			5	45	6,20
	91201804	4	6	2517	186,1	146		65			20	45	6,90
	91201805	5	7	3020	186,1	146		80			14,5	51	6,90
190	91201901	1	4	1610	196,1		80	20	25	5			2,80
	91201902	2	9	2012	196,1	158	100	35			1,5	32	4,40
	91201903	3	5	2517	196,1	158		50			5	45	7,00
	91201904	4	6	2517	196,1	158		65			20	45	6,80
	91201905	5	7	3020	196,1	158		80			14,5	51	7,70
200	91202001	1	8	2012	206,1	165	100	20	32	12			2,30
	91202002	2	10	2517	206,1	165	120	35	45	5			4,90
	91202003	3	9	2517	206,1	165	120	50			2,5	45	5,80
	91202004	4	6	3020	206,1	165		65			14	51	8,40
	91202005	5	7	3020	206,1	165		80			14,5	51	9,00
212	91202121	1	8	2012	218,1	177	100	20	32	12			3,50
	91202122	2	10	2517	218,1	177	120	35	45	5			5,80
	91202123	3	9	2517	218,1	177	120	50			2,5	45	6,60
	91202124	4	6	3020	218,1	177		65			14	51	9,90
	91202125	5	7	3020	218,1	177		80			14,5	51	10,70

MATERIAL CAST-IRON

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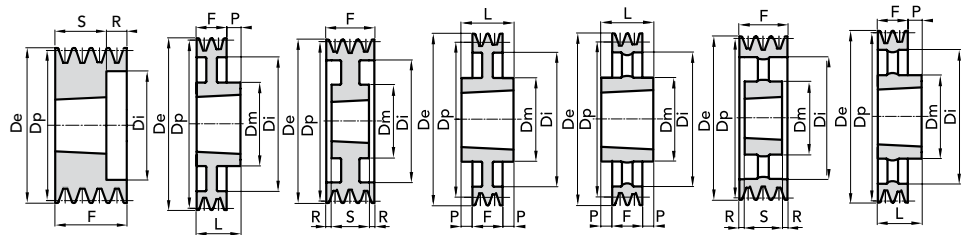
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## TAPER BUSHES

### SPA TYPE

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EXEC. 6

EXEC. 8

EXEC. 9

EXEC. 10

EXEC. 11

EXEC. 12

EXEC. 13

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
224	91202241	1	8	2012	230,1	189	100	20	32	12			4,00
	91202242	2	8	2517	230,1	189	120	35	45	10			6,60
	91202243	3	9	2517	230,1	189	120	50			2,5	45	7,50
	91202244	4	6	3020	230,1	189		65			14	51	11,40
	91202245	5	6	3020	230,1	189		80			29	51	12,30
236	91202361	1	8	2012	242,1	202	106	20	32	12			3,60
	91202362	2	8	2517	242,1	202	125	35	45	10			5,40
	91202363	3	9	2517	242,1	202	125	50			2,5	45	6,60
	91202364	4	9	3020	242,1	202	146	65			7	51	9,80
	91202365	5	9	3020	242,1	202	155	80			14,5	51	11,20
250	91202501	1	10	2012	256,1	215	100	20	32	6			4,20
	91202502	2	10	2517	256,1	215	120	35	45	5			6,80
	91202503	3	9	2517	256,1	215	120	50			2,5	45	6,80
	91202504	4	9	3020	256,1	215	150	65			7	51	10,50
	91202505	5	9	3020	256,1	215	150	80			14,5	51	11,70
280	91202801	1	8	2012	286,1	245	100	20	32	12			6,30
	91202802	2	8	2517	286,1	245	120	35	45	10			8,30
	91202803	3	9	2517	286,1	245	120	50			2,5	45	10,00
	91202804	4	9	3020	286,1	245	150	65			7	51	11,50
	91202805	5	10	3535	286,1	245	170	80	89	4,5			17,40
300	91203001	1	8	2012	306,1	264	112	20	32	12			5,20
	91203002	2	8	2517	306,1	264	125	35	45	10			6,80
	91203003	3	10	3020	306,1	264	146	50	51	0,5			9,10
	91203004	4	9	3020	306,1	264	146	65			7	51	12,40
	91203005	5	8	3535	306,1	264	175	80	89	9			16,50
315	91203151	1	13	2012	321,1	280	100	20	32	12			7,20
	91203152	2	13	2517	321,1	280	120	35	45	10			10,20
	91203153	3	10	3020	321,1	280	150	50	51	0,5			12,80
	91203154	4	9	3020	321,1	280	150	65			7	51	13,80
	91203155	5	10	3535	321,1	280	170	80	89	4,5			20,00
335	91203353	3	11	3020	341,1	300	150	50	51	0,5			11,40
	91203354	4	12	3020	341,1	300	150	65			7	51	13,20
	91203355	5	10	3535	341,1	300	170	80	89	4,5			19,00
355	91203551	1	13	2012	361,1	320	100	20	32	12			7,70
	91203552	2	13	2517	361,1	320	120	35	45	10			10,50
	91203553	3	11	3020	361,1	320	150	50	51	0,5			13,40
	91203554	4	12	3020	361,1	320	150	65			7	51	15,80
	91203555	5	11	3535	361,1	320	170	80	89	4,5			22,80
400	91204001	1	13	2012	406,1	365	100	20	32	12			7,90
	91204002	2	13	2517	406,1	365	120	35	45	10			11,30
	91204003	3	11	3020	406,1	365	150	50	51	0,5			15,90
	91204004	4	12	3020	406,1	365	150	65			7	51	17,70
	91204005	5	11	3535	406,1	365	170	80	89	4,5			24,80

MATERIAL CAST-IRON

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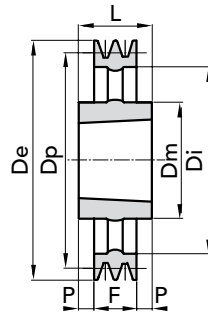
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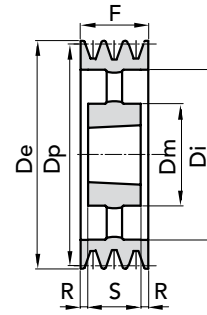
## TAPER BUSHES

## SPA TYPE

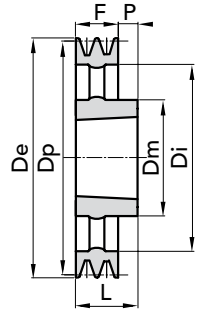
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EXEC. 11



EXEC. 12



EXEC. 13

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
<b>GROOVES</b>													
450	91204501	1	13	2012	456,1	415	100	20	32	12			8,30
	91204502	2	13	2517	456,1	415	120	35	45	10			15,00
	91204503	3	11	3020	456,1	415	150	50	51	0,5			19,30
	91204504	4	12	3020	456,1	415	150	65			7	51	23,20
	91204505	5	11	3535	456,1	415	170	80	89	4,5			28,50
500	91205001	1	13	2517	506,1	465	120	20	45	25			9,40
	91205002	2	13	2517	506,1	465	120	35	45	10			18,70
	91205003	3	11	3020	506,1	465	150	50	51	0,5			22,60
	91205004	4	12	3020	506,1	465	150	65			7	51	27,40
	91205005	5	11	3535	506,1	465	170	80	89	4,5			31,70
560	91205603	3	13	3020	566,1	525	150	50	51	0,5			23,50
	91205604	4	11	3535	566,1	525	170	65	89	12			30,50
	91205605	5	11	3535	566,1	525	170	80	89	4,5			35,00
630	91206302	2	13	3020	636,1	595	150	35	51	16			22,00
	91206303	3	11	3020	636,1	595	150	50	51	0,5			27,50
	91206304	4	11	3535	636,1	595	170	65	89	12			34,10
	91206305	5	11	3535	636,1	595	170	80	89	4,5			42,00
	91206306	6	11	4040	636,1	595	200	95	102	3,5			53,50
	800	91208003	3	11	3535	806,1	765	170	50	89	19,5		
91208004		4	11	3535	806,1	765	170	65	89	12			50,80
91208005		5	11	4040	806,1	765	200	80	102	11			60,00

MATERIAL **CAST-IRON**

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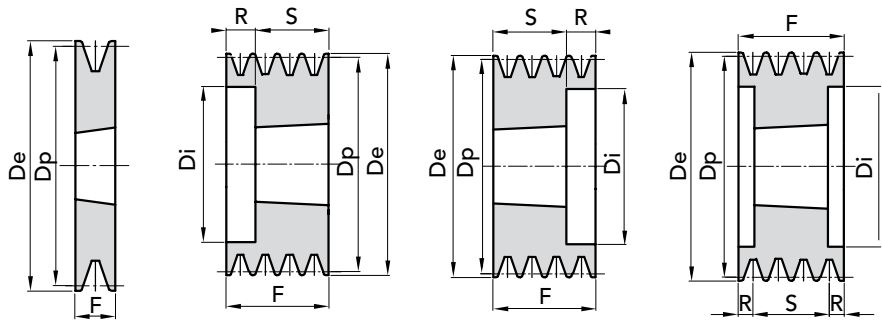
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## TAPER BUSHES

### SPB TYPE

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EXEC. 1

EXEC. 5

EXEC. 6

EXEC. 7

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
100	91301001	1	1	1610	107,6			25					0,90
	91301002	2	6	1610	107,6	57		44			19	25	1,40
106	91301061	1	1	1610	113,6			25					1,00
	91301062	2	6	1610	113,6	67		44			19	25	1,60
	91301063	3	6	1610	113,6	67		63			38	25	2,20
112	91301121	1	1	1610	119,6			25					1,20
	91301122	2	5	1610	119,6	72		44			19	25	1,70
	91301123	3	6	1610	119,6	72		63			38	25	2,40
118	91301181	1	1	1610	125,6			25					1,30
	91301182	2	6	1610	125,6	78		44			19	25	1,80
	91301183	3	6	1610	125,6	78		63			38	25	2,60
125	91301251	1	1	1610	132,6			25					1,50
	91301252	2	6	2012	132,6	82		44			12	32	1,90
	91301253	3	6	2012	132,6	82		63			31	32	2,50
	91301254	4	7	2012	132,6	82		82			25	32	3,00
	91301255	5	5/6	2012	132,6	82		101			69	32	3,60
132	91301321	1	1	1610	139,6			25					1,70
	91301322	2	6	2012	139,6	89		44			12	32	2,50
	91301323	3	6	2012	139,6	89		63			31	32	3,20
	91301324	4	7	2012	139,6	89		82			25	32	3,70
	91301325	5	5	2517	139,6	89		101			56	45	3,80
140	91301401	1	1	1610	147,6			25					1,80
	91301402	2	6	2012	147,6	97		44			12	32	2,70
	91301403	3	6	2012	147,6	97		63			31	32	3,60
	91301404	4	7	2517	147,6	97		82			18,5	45	4,30
	91301405	5	7	2517	147,6	97		101			28	45	4,40
	91301406	6	7	2517	147,6	97		120			37,5	45	4,70
	91301408	8	7	2517	147,6	97		158			56,5	45	7,00
	150	91301501	1	1	1610	157,6			25				
91301502		2	6	2012	157,6	107		44			12	32	3,20
91301503		3	6	2517	157,6	107		63			18	45	4,00
91301504		4	7	2517	157,6	107		82			18,5	45	4,60
91301505		5	7	2517	157,6	107		101			28	45	5,40
91301506		6	7	2517	157,6	107		120			37,5	45	6,80
160	91301601	1	1	1610	167,6			25					2,50
	91301602	2	6	2012	167,6	117		44			12	32	3,80
	91301603	3	6	2517	167,6	117		63			18	45	4,50
	91301604	4	7	2517	167,6	117		82			18,5	45	5,80
	91301605	5	7	2517	167,6	117		101			28	45	6,70
	91301606	6	7	3020	167,6	117		120			34,5	51	7,20
	91301608	8	7	3020	167,6	117		158			53,5	51	8,30

V-BELT PULLEYS for TAPER BUSHES

MATERIAL CAST-IRON

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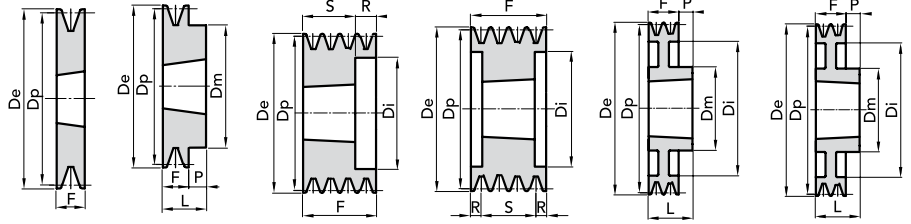
Quantity, availability and prices  
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## TAPER BUSHES

### SPB TYPE

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EXEC. 1

EXEC. 4

EXEC. 6

EXEC. 7

EXEC. 8

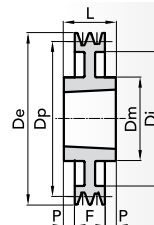
EXEC. 8A

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													
Kg.													
170	91301701	1	1	1610	177,6			25					2,90
	91301702	2	6	2012	177,6	127		44			12	32	4,80
	91301703	3	6	2517	177,6	127		63			18	45	5,30
	91301704	4	7	2517	177,6	127		82			18,5	45	6,70
	91301705	5	7	3020	177,6	127		101			25	51	7,10
	91301706	6	7	3020	177,6	127		120			34,5	51	7,60
180	91301801	1	14	1610	187,6	137	80	25					3,80
	91301802	2	4	2517	187,6		120	44	45	1			5,50
	91301803	3	6	2517	187,6	137		63			18	45	6,70
	91301804	4	7	2517	187,6	137		82			18,5	45	7,70
	91301805	5	7	3020	187,6	137		101			25	51	8,20
	91301806	6	7	3020	187,6	137		120			34,5	51	10,20
	91301808	8	7	3030	187,6	137		158			41	76	10,80
	190	91301901	1	10	2012	197,6	147	100	25	32	3,5		
91301902		2	4	2517	197,6		120	44	45	1			6,50
91301903		3	6	2517	197,6	147		63			18	45	7,60
91301904		4	7	2517	197,6	147		82			18,5	45	8,60
91301905		5	7	3020	197,6	147		101			25	51	9,10
91301906		6	7	3020	197,6	147		120			34,5	51	10,20
91301908		8	7	3030	197,6	147		158			41	76	12,30
200		91302001	1	10	2012	207,6	157	100	25	32	3,5		
	91302002	2	4	2517	207,6	157	120	44	45	1			7,50
	91302003	3	6	2517	207,6	157		63			18	45	8,90
	91302004	4	6/7	3020	207,6	157		82			18,5	45	9,10
	91302005	5	7	3020	207,6	157		101			25	51	10,30
	91302006	6	7	3020	207,6	157		120			34,5	51	11,70
	91302008	8	7	3535	207,6	161		158			34,5	89	13,70
	212	91302121	1	10	2012	219,6	169	100	25	32	3,5		
91302122		2	8	2517	219,6	169	120	44	45	1			7,00
91302123		3	15	2517	219,6	169	120	63			18	45	8,20
91302124		4	7	3020	219,6	169		82			15,5	51	10,90
91302125		5	7	3020	219,6	169		101			25	51	12,20
91302126		6	7	3535	219,6	169		120			15,5	89	13,20
91302128		8	7	3535	219,6	173		158			34,5	89	15,80
224		91302241	1	10	2012	231,6	181	100	25	32	3,5		
	91302242	2	8a	2517	231,6	181	120	44	45	1			7,70
	91302243	3	15	2517	231,6	181	120	63			18	45	9,10
	91302244	4	6/7	3020	231,6	181		82			15,5	51	12,40
	91302245	5	7	3020	231,6	181		101			25	51	13,70
	91302246	6	7	3535	231,6	181		120			15,5	89	15,20
	91302248	8	7	3535	231,6	181		158			34,5	89	17,20
	91302210	10	7	3535	231,6	181		196			53,5	89	20,50

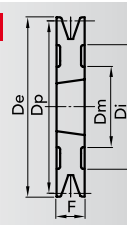
MATERIAL **CAST-IRON**

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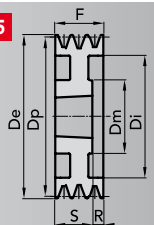
EXEC. 10



EXEC. 14



EXEC. 15

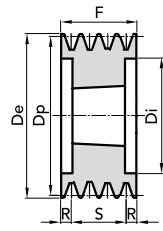




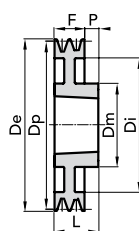
## TAPER BUSHES

### SPB TYPE

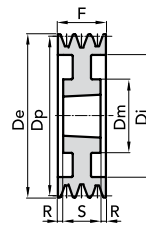
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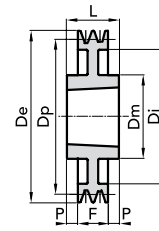
EXEC. 7



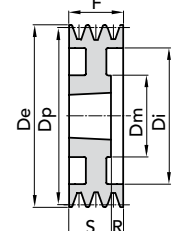
EXEC. 8A



EXEC. 9



EXEC. 10



EXEC. 15

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
236	91302361	1	10	2012	243,6	193	100	25	32	3,5			5,40
	91302362	2	8a	2517	243,6	193	120	44	45	1			8,30
	91302363	3	15	2517	243,6	193	120	63			18	45	9,80
	91302364	4	7	3020	243,6	193		82			15,5	51	14,10
	91302365	5	7	3535	243,6	193		101			6	89	16,20
	91302366	6	7	3535	243,6	193		120			15,5	89	17,60
	91302368	8	7	3535	243,6	193		158			34,5	89	20,00
250	91302501	1	10	2012	257,6	207	100	25	32	3,5			6,200
	91302502	2	8a	2517	257,6	207	120	44	45	1			8,600
	91302503	3	15	3020	257,6	207	150	63			12	51	11,20
	91302504	4	9	3020	257,6	207	150	82			15,5	51	12,70
	91302505	5	7	3535	257,6	207		101			6	89	18,60
	91302506	6	7	3535	257,6	207		120			15,5	89	20,20
	91302508	8	7	3535	257,6	207		158			34,5	89	23,20
280	91302801	1	10	2012	287,6	237	100	25	32	3,5			6,50
	91302802	2	8a	2517	287,6	237	120	44	45	1			10,10
	91302803	3	9	3020	287,6	237	150	63			6	51	12,00
	91302804	4	9	3020	287,6	237	150	82			15,5	51	14,10
	91302805	5	9	3535	287,6	237	170	101			6	89	21,40
	91302806	6	9	3535	287,6	237	170	120			15,5	89	23,50
	91302808	8	9	3535	287,6	237	175	158			34,5	89	26,60
300	91303001	1	10	2012	307,6	257	100	25	32	3,5			7,00
	91303002	2	8a	2517	307,6	257	120	44	45	1			11,00
	91303003	3	9	3020	307,6	257	150	63			6	51	13,50
	91303004	4	9	3020	307,6	257	150	82			15,5	51	20,50
	91303005	5	9	3535	307,6	257	170	101			6	89	22,50
	91303006	6	9	3535	307,6	257	170	120			15,5	89	24,00
	91303008	8	9	3535	307,6	257	175	158			34,5	89	27,30
315	91303151	1	10	2012	322,6	272	100	25	32	3,5			7,50
	91303152	2	8a	2517	322,6	272	120	44	45	1			12,20
	91303153	3	9	3020	322,6	272	150	63			6	51	14,20
	91303154	4	10	3535	322,6	272	170	82	89	3,5			20,60
	91303155	5	9	3535	322,6	272	170	101			6	89	22,30
	91303156	6	9	3535	322,6	272	170	120			15,5	89	24,20
	91303158	8	9	3535	322,6	272	175	158			34,5	89	28,00
335	91303352	2	8a	2517	342,6	292	120	44	45	1			14,00
	91303353	3	9	3020	342,6	292	150	63			6	51	16,00
	91303354	4	10	3535	342,6	292	170	82	89	3,5			22,00
	91303355	5	9	3535	342,6	292	170	101			6	89	24,00
	91303356	6	9	3535	342,6	292	170	120			15,5	89	26,30
	91303358	8	9	3535	342,6	292	175	158			34,5	89	30,50

MATERIAL CAST-IRON

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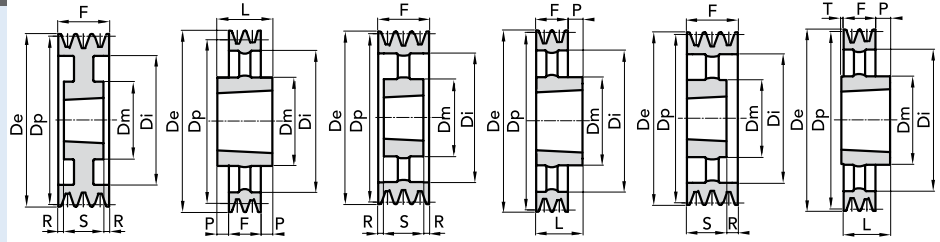
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## TAPER BUSHES

## SPB TYPE

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EXEC. 9

EXEC. 11

EXEC. 12

EXEC. 13

EXEC. 16

EXEC. 17

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT	
GROOVES														Kg.	
355	91303552	2	11	3020	362,6	312	150	44	51	3,5				15,90	
	91303553	3	12	3020	362,6	312	150	63			6	51		17,70	
	91303554	4	10	3535	362,6	312	170	82	89	3,5				23,20	
	91303555	5	12	3535	362,6	312	170	101			6	89		25,50	
	91303556	6	9	3535	362,6	312	170	120			15,5	89		28,40	
	91303558	8	9	3535	362,6	312	170	158			35,5	89		31,50	
	91303510	10	9	4030	362,6	312	210	196				60	76		33,50
375	91303754	4	10	3535	382,6	332	170	82	89	3,5				27,00	
400	91304002	2	11	3020	407,6	357	150	44	51	3,5				18,30	
	91304003	3	11	3535	407,6	357	170	63	89	13				25,00	
	91304004	4	11	3535	407,6	357	170	82	89	3,5				26,50	
	91304005	5	12	3535	407,6	357	170	101			6	89		30,20	
	91304006	6	12	3535	407,6	357	170	120			15,5	89		31,80	
	91304008	8	9	4040	407,6	357	200	158				28	102		43,00
450	91304502	2	11	3020	457,6	407	150	44	51	3,5				19,00	
	91304503	3	13	3535	457,6	407	170	63	89	26				26,30	
	91304504	4	13	3535	457,6	407	170	82	89	7				27,20	
	91304505	5	16	3535	457,6	407	170	101			12	89		32,80	
	91304506	6	16	4040	457,6	407	200	120			18	102		35,30	
	91304508	8	12	4040	457,6	407	200	158			28	102		46,00	
500	91305002	2	11	3020	507,6	457	150	44	51	3,5				21,00	
	91305003	3	13	3535	507,6	457	170	63	89	26				29,90	
	91305004	4	13	3535	507,6	457	170	82	89	7				34,70	
	91305005	5	16	3535	507,6	457	170	101			12	89		36,70	
	91305006	6	16	4040	507,6	457	200	120			18	102		40,70	
	91305008	8	12	4040	507,6	457	200	158			28	102		52,00	
	560	91305602	2	17	3030	567,6	517	150	44	76	28			4	24,00
		91305603	3	13	3535	567,6	517	170	63	89	26				37,20
91305604		4	13	3535	567,6	517	170	82	89	7				39,00	
91305605		5	13	4040	567,6	517	200	101	102	1				45,60	
91305606		6	16	4040	567,6	517	200	120			18	102		49,20	
91305608		8	12	4545	567,6	517	225	158			22	114		54,50	
630	91306303	3	13	3535	637,6	587	170	63	89	26				41,00	
	91306304	4	13	3535	637,6	587	170	82	89	7				44,50	
	91306305	5	13	4040	637,6	587	200	101	102	1				50,00	
	91306306	6	16	4040	637,6	587	200	120			18	102		53,50	
	91306308	8	12	4545	637,6	587	225	158			22	114		67,00	
	710	91307103	3	17	3535	717,6	664	170	63	89	22			4	48,00
91307104		4	11	3535	717,6	664	170	82	89	3,5				50,50	
91307105		5	11	4040	717,6	664	200	101	102	0,5				63,50	
91307106		6	12	4545	717,6	664	225	120			3	114		69,00	
91307108		8	12	4545	717,6	664	225	158			22	114		75,50	
91307010		10	12	4545	717,6	664	225	196			41	114		82,00	

MATERIAL CAST-IRON

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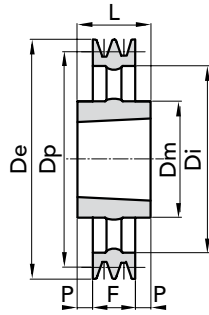




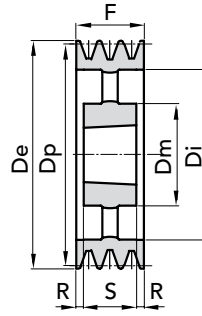
## TAPER BUSHES

### SPB TYPE

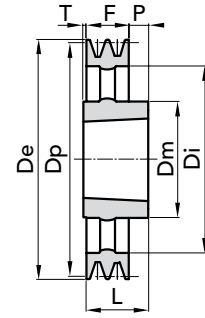
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EXEC. 11



EXEC. 12



EXEC. 17

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														Kg.
800	91308003	3	17	3535	807,6	754	170	63	89	22			4	55,00
	91308004	4	17	4040	807,6	754	200	82	102	16			4	60,50
	91308005	5	11	4040	807,6	754	200	101	102	5				67,00
	91308006	6	12	4545	807,6	754	225	120			3	114		84,50
	91308008	8	12	4545	807,6	754	225	158			22	114		94,50
	91308010	10	12	4545	807,6	754	225	196				41	114	
900	91309003	3	17	3535	907,6	854	170	63	89	22			4	64,10
	91309004	4	17	4040	907,6	854	200	82	102	16			4	70,00
1000	91310003	3	17	4040	1007,6	954	200	63	102	33			6	72,00
	91310004	4	17	4040	1007,6	954	200	82	102	16			4	77,50
	91310005	5	11	4545	1007,6	954	225	101	114	6,5				110,0
	91310006	6	12	4545	1007,6	954	225	120			2	114		114,0
	91310008	8	12	5050	1007,6	954	245	158			15,5	127		121,5
	91310010	10	12	5050	1007,6	954	245	196				34,5	127	
1250	91312503	3	17	4040	1257,6	1204	200	63	102	33			6	140,0
	91312504	4	17	4545	1257,6	1204	225	82	114	26			6	162,0
	91312505	5	11	4545	1257,6	1204	225	101	114	6,5				180,0
	91312506	6	11	5050	1257,6	1204	245	120	127	3,5				210,0
	91312508	8	12	5050	1257,6	1204	245	158			15,5	127		242,0
	91312510	10	12	5050	1257,6	1204	245	196				34,5	127	

V-BELT PULLEYS for TAPER BUSHES

MATERIAL **CAST-IRON**

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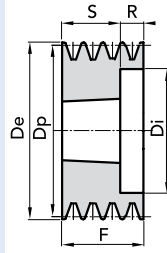
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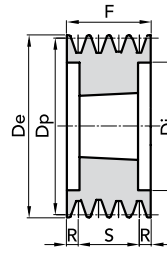
## TAPER BUSHES

## SPC TYPE

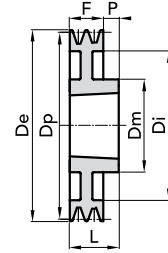
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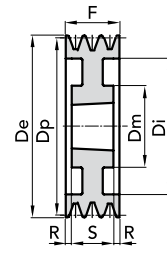
EXEC. 6



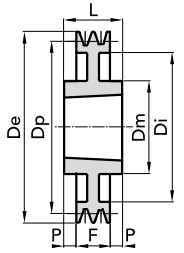
EXEC. 7



EXEC. 8



EXEC. 9



EXEC. 10

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.	
<b>GROOVES</b>														
180	91401803	3	7	2517	190,2	128		85			20	45	9,20	
	91401804	4	7	2517	190,2	124		110,5			32,75	45	11,50	
	91401805	5	7	3020	190,2	124		136			42,5	51	13,70	
	91401806	6	7	3020	190,2	124		161,5			55,25	51	16,50	
200	91402002	2	6	2517	210,2	144		59,5			14,5	45	10,00	
	91402003	3	7	2517	210,2	144		85			17	51	10,20	
	91402004	4	7	3020	210,2	144		110,5			10,75	89	11,30	
	91402005	5	7	3535	210,2	144		136			23,5	89	12,20	
	91402006	6	7	3535	210,2	144		161,5			36,25	89	14,10	
	91402008	8	7	3535	210,2	144		212,5			61,75	89	20,00	
	224	91402242	2	6	3020	234,2	173		59,5			8,5	51	11,00
		91402243	3	7	3020	234,2	173		85			17	51	12,70
91402244		4	7	3535	234,2	173		110,5			10,75	89	14,50	
91402245		5	7	3535	234,2	173		136			23,5	89	16,60	
91402246		6	7	3535	234,2	173		161,5			36,25	89	18,00	
91402248		8	7	3535	234,2	170		212,5			61,75	89	22,90	
91402210		10	7	4040	234,2	170		263,5			80,75	102	28,00	
236		91402366	6	7	3535	246,2	180		161,5			36,25	89	21,30
250	91402502	2	6	3020	260,2	198		59,5			8,5	51	15,00	
	91402503	3	7	3020	260,2	198		85			17	51	16,50	
	91402504	4	7	3535	260,2	198		110,5			10,75	89	19,30	
	91402505	5	7	3535	260,2	198		136			23,5	89	21,50	
	91402506	6	7	3535	260,2	198		161,5			36,25	89	20,90	
	91402508	8	7	3535	260,2	198		212,5			61,75	89	29,00	
	91402510	10	7	4040	260,2	198		263,5			80,75	102	35,00	
	280	91402802	2	8	3535	290,2	228	170	59,5	89	29,5			18,00
91402803		3	8	3535	290,2	228	170	85	89	4			22,70	
91402804		4	7	3535	290,2	228		110,5			10,75	89	25,40	
91402805		5	7	3535	290,2	228		136			23,5	89	28,40	
91402806		6	7	3535	290,2	228		161,5			36,25	89	31,50	
91402808		8	7	3535	290,2	228		212,5			61,75	89	36,10	
91402810		10	7	4040	290,2	222		263,5			80,75	102	42,10	
300		91403002	2	8	3535	310,2	247	170	59,5	89	29,5			21,00
	91403003	3	10	3535	310,2	247	170	85	89	2			22,60	
	91403004	4	9	3535	310,2	247	170	110,5			10,75	89	25,00	
	91403005	5	9	3535	310,2	247	170	136			23,5	89	28,50	
	91403006	6	9	3535	310,2	247	170	161,5			36,25	89	31,50	
	91403008	8	7	4040	310,2	247	170	212,5			55,25	102	37,10	
	91403010	10	7	4545	310,2	242	170	263,5			74,75	114	44,10	
	315	91403152	2	8	3535	325,2	264	170	59,5	89	29,5			21,00
91403153		3	10	3535	325,2	264	170	85	89	2			22,00	
91403154		4	9	3535	325,2	264	170	110,5			10,75	89	25,30	
91403155		5	9	3535	325,2	264	170	136			23,5	89	28,10	
91403156		6	9	3535	325,2	264	170	161,5			36,25	89	33,20	
91403158		8	7	4040	325,2	258	170	212,5			55,25	102	40,00	
91403110		10	7	4545	325,2	258	170	263,5			74,75	114	47,00	

MATERIAL **CAST-IRON**

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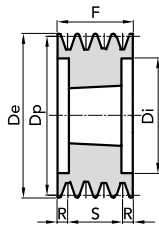
Quantity, availability and prices  
 on B2B Chiaravalli



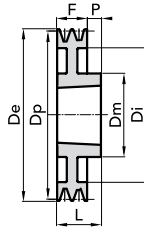
## TAPER BUSHES

### SPC TYPE

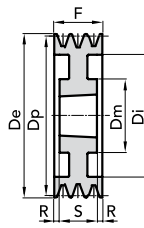
We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



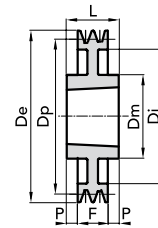
EXEC. 7



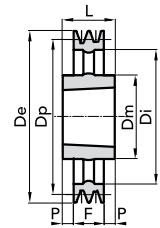
EXEC. 8



EXEC. 9



EXEC. 10



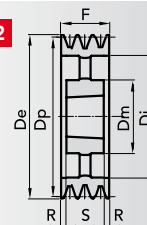
EXEC. 11

V-BELT PULLEYS for TAPER BUSHES

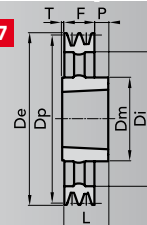
Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														Kg.
335	91403352	2	8	3535	345,2	279	170	59,5	89	29,5				22,00
	91403353	3	10	3535	345,2	279	170	85	89	2				24,10
	91403354	4	9	3535	345,2	279	170	110,5			10,75	89		27,50
	91403355	5	9	3535	345,2	279	170	136			23,5	89		31,00
	91403356	6	9	3535	345,2	279	170	161,5			36,25	89		37,50
	91403358	8	9	4040	345,2	279	200	212,5			55,25	102		44,00
	91403310	10	7	4545	345,2	279		263,5			74,75	114		51,00
355	91403552	2	8	3535	365,2	304	170	59,5	89	29,5				23,00
	91403553	3	10	3535	365,2	304	170	85	89	2				26,20
	91403554	4	9	3535	365,2	304	170	110,5			10,75	89		29,30
	91403555	5	9	3535	365,2	304	170	136			23,5	89		33,50
	91403556	6	9	3535	365,2	304	170	161,5			36,25	89		40,50
	91403558	8	7	4040	365,2	304		212,5			55,25	102		49,00
	91403510	10	7	4545	365,2	299		263,5			74,75	114		57,00
400	91404002	2	17	3535	410,2	344	170	59,5	89	27,5			2	17,00
	91404003	3	11	3535	410,2	344	170	85	89	2				29,30
	91404004	4	12	3535	410,2	344	170	110,5			10,75	89		33,80
	91404005	5	12	3535	410,2	344	170	136			23,5	89		38,50
	91404006	6	9	4040	410,2	344	200	161,5			29,75	102		48,00
	91404008	8	9	4545	410,2	344	225	212,5			49,75	114		58,00
	91404010	10	7	5050	410,2	342		263,5			68,25	127		66,00
450	91404502	2	17	3535	460,2	394	170	59,5	89	27,5			2	27,00
	91404503	3	11	3535	460,2	394	170	85	89	2				34,70
	91404504	4	12	3535	460,2	394	170	110,5			10,75	89		41,30
	91404505	5	12	4040	460,2	394	200	136			17	102		45,30
	91404506	6	9	4545	460,2	394	225	161,5			23,75	114		57,50
	91404508	8	9	5050	460,2	394	245	212,5			42,75	127		70,00
	91404510	10	9	5050	460,2	394	245	263,5			68,25	127		78,00
500	91405003	3	11	3535	510,2	444	170	85	89	2				40,00
	91405004	4	12	3535	510,2	444	170	110,5			10,75	89		46,00
	91405005	5	12	4040	510,2	444	200	136			17	102		51,00
	91405006	6	12	4545	510,2	444	225	161,5			23,75	114		67,00
	91405008	8	9	5050	510,2	444	245	212,5			42,75	127		82,50
	91405010	10	9	5050	510,2	444	245	263,5			68,25	127		95,50
	560	91405603	3	11	3535	570,2	504	170	85	89	2			
91405604		4	12	4040	570,2	504	200	110,5			4,25	102		58,00
91405605		5	12	4545	570,2	504	225	136			11	114		56,70
91405606		6	12	5050	570,2	504	245	161,5			17,25	127		77,50
91405608		8	12	5050	570,2	504	245	212,5			42,75	127		94,50
91405610		10	9	5050	570,2	504	245	263,5			68,25	127		94,70

MATERIAL CAST-IRON

EXEC. 12



EXEC. 17



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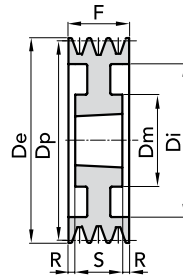
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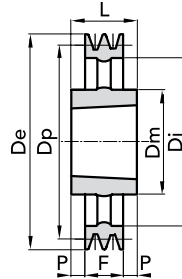
## TAPER BUSHES

## SPC TYPE

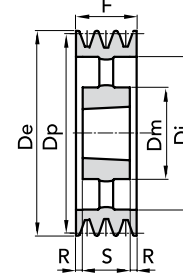
We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



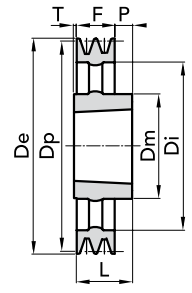
EXEC. 9



EXEC. 11



EXEC. 12



EXEC. 17

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														
Kg.														
630	91406303	3	11	4040	640,2	574	200	85	102					76,30
	91406304	4	11	4545	640,2	574	225	110,5	114	1,75				63,80
	91406305	5	12	5050	640,2	574	245	136			4,5	127		73,00
	91406306	6	12	5050	640,2	574	245	161,5			17,25	127		88,50
	91406308	8	12	5050	640,2	574	245	212,5			42,75	127		102,0
	91406310	10	9	5050	640,2	574	245	263,5			68,25	127		113,2
710	91407104	4	17	5050	720,2	654	267	110,5	127	12			4,5	83,20
	91407105	5	12	5050	720,2	654	245	136						93,00
	91407106	6	12	5050	720,2	654	245	161,5						107,3
	91407108	8	12	5050	720,2	654	245	212,5						123,5
	91407110	10	12	5050	720,2	654	245	263,5						133,4
800	91408003	3	17	5050	810,2	737	245	85	127	38			4	87,00
	91408004	4	17	5050	810,2	737	245	110,5	127	12			4,5	102,5
	91408005	5	12	5050	810,2	737	245	136			4,5	127		119,0
	91408006	6	12	5050	810,2	737	245	161,5			17,5	127		126,0
	91408008	8	12	5050	810,2	737	245	212,5			42,75	127		145,0
	91408010	10	12	5050	810,2	737	245	263,5			68,25	127		160,0
1000	91410003	3	17	5050	1010,2	937	245	85	127	38			4	120,0
	91410004	4	17	5050	1010,2	937	245	110,5	127	12			4,5	130,0
	91410005	5	12	5050	1010,2	937	245	136			4,5	127		147,0
	91410006	6	12	5050	1010,2	937	245	161,5			17,5	127		185,0
	91410008	8	12	5050	1010,2	937	245	212,5			42,75	127		207,0
	91410010	10	12	5050	1010,2	937	245	263,5			68,25	127		227,0
1250	91412503	3	17	5050	1260,2	1187	245	85	127	38			4	175,0
	91412504	4	17	5050	1260,2	1187	245	110,5	127	12			4,5	186,0
	91412505	5	12	5050	1260,2	1187	245	136			4,5	127		210,0
	91412506	6	12	5050	1260,2	1187	245	161,5			17,5	127		258,0
	91412508	8	12	5050	1260,2	1187	245	212,5			42,75	127		285,0
	91412510	10	12	5050	1260,2	1187	245	263,5			68,25	127		300,0

MATERIAL CAST-IRON

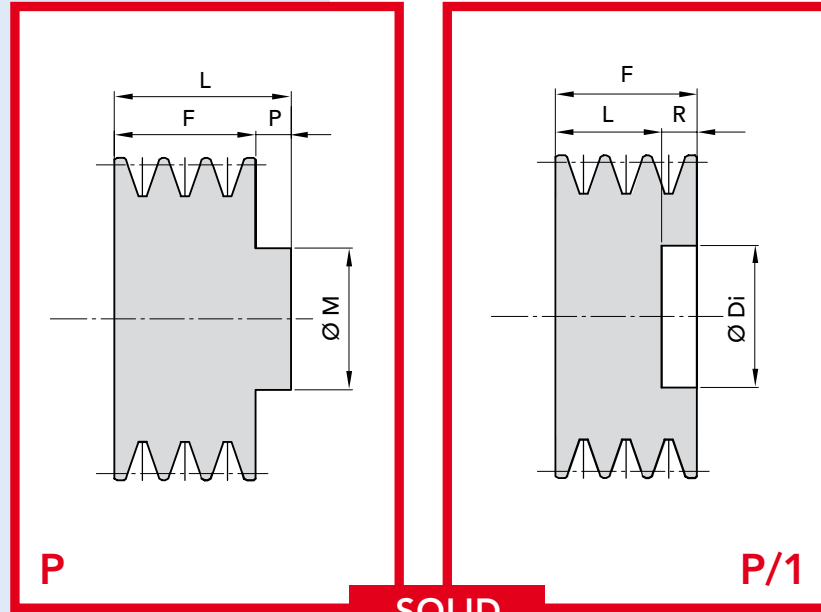
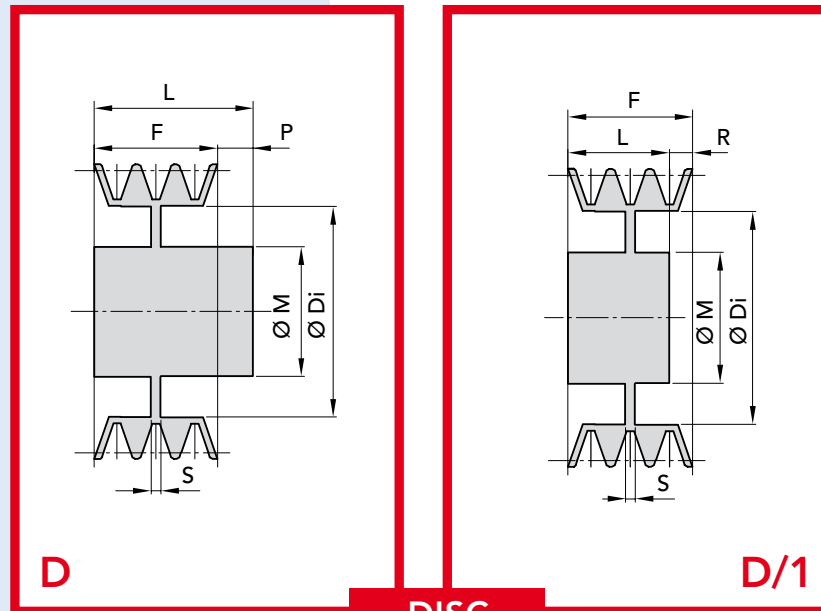
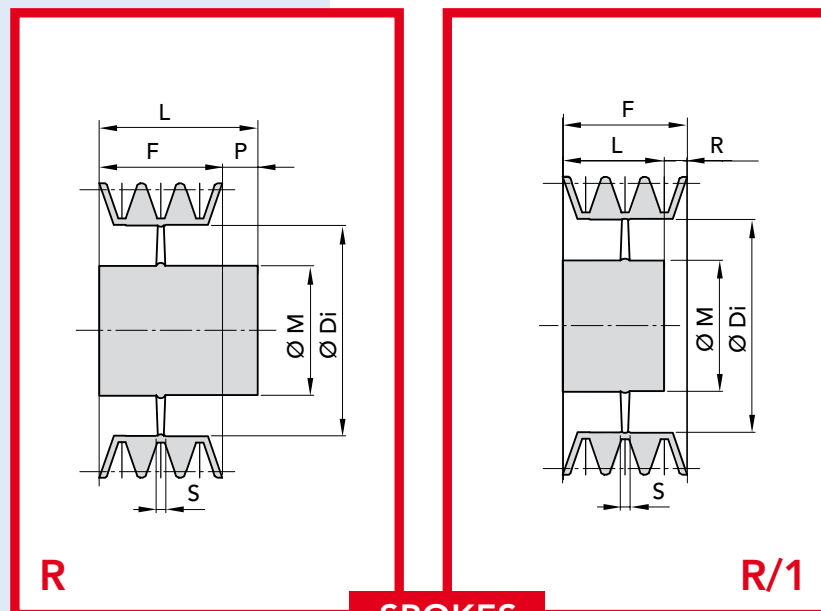
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# CAST- IRON V-BELT PULLEYS

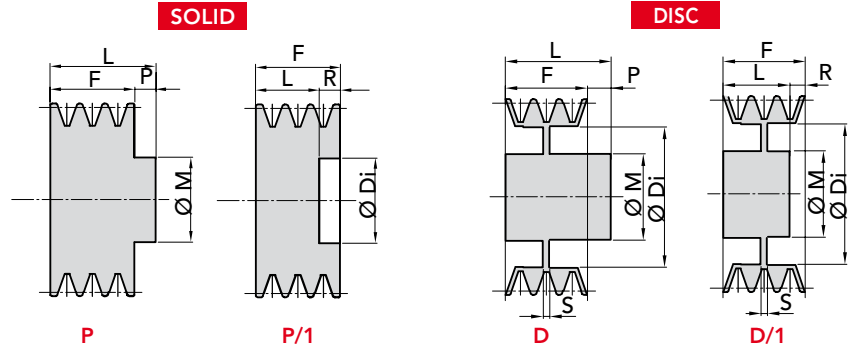


**SOLID****DISC****SPOKES**



## SOLID HUB

### SPA TYPE



V-PULLEYS PILOT BORE

Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES											Kg.
											min
40	91220401	1	P	40	35			20	15		0,20
50	91220501	1	P	40	35			20	15		0,30
	91220502	2	P	40	45			35	10		0,40
55	91220551	1	P	40	35			20	15		0,40
	91220552	2	P	40	45			35	10		0,60
60	91220601	1	P	40	35			20	15		0,40
	91220602	2	P	40	45			35	10		0,65
	91220603	3	P	40	50			50			0,90
63	91220631	1	P	40	35			20	20		0,50
	91220632	2	P	40	45			35	10		0,70
	91220633	3	P	40	50			50			0,90
65	91220651	1	P	40	40			20	20		0,50
	91220652	2	P	50	45			35	10		0,75
	91220653	3	P	52	50			50			1,00
70	91220701	1	P	40	40			20	20		0,50
	91220702	2	P	50	45			35	10		0,80
	91220703	3	P	52	50			50			1,10
	91220704	4	P	52	65			65			1,40
	91220705	5	P	52	80			80			1,70
75	91220751	1	P	40	40			20	20		0,50
	91220752	2	P	50	45			35	10		1,10
	91220753	3	P	52	50			50			1,50
	91220754	4	P	52	65			65			2,00
	91220755	5	P	52	80			80			2,50
80	91220801	1	P	45	40			20	20		0,50
	91220802	2	P	50	45			35	10		1,00
	91220803	3	P	62	50			50			1,50
	91220804	4	P	62	65			65			2,00
	91220805	5	P	62	80			80			2,50
85	91220851	1	P	45	40			20	20		0,60
	91220852	2	P	50	45			35	10		1,20
	91220853	3	P	62	50			50			1,80
	91220854	4	P	62	65			65			2,40
	91220855	5	P	62	80			80			3,00
90	91220901	1	P	45	40			20	20		0,80
	91220902	2	P	60	45			35	10		1,40
	91220903	3	P	62	50			50			2,00
	91220904	4	P	68	65			65			2,60
	91220905	5	P	68	80			80			3,20

Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES											Kg.
											min
95	91220951	1	P	45	40			20	20		0,70
	91220952	2	P	60	45			35	10		1,50
	91220953	3	P	62	50			50			2,30
	91220954	4	P	68	65			65			3,10
	91220955	5	P	68	80			80			3,90
100	91221001	1	P	48	40			20	20		0,80
	91221002	2	P	60	45			35	10		1,30
	91221003	3	P	62	50			50			1,80
	91221004	4	P/1		52	67		65		13	2,25
	91221005	5	P/1		52	67		80		28	2,10
105	91221051	1	P	48	40			20	20		0,80
	91221052	2	P	60	45			35	10		1,60
	91221053	3	P	62	50			50			2,40
	91221054	4	P/1		52	72		65		13	3,13
	91221055	5	P/1		52	72		80		28	3,30
112	91221121	1	P	48	40			20	20		1,00
	91221122	2	P	60	45			35	10		1,70
	91221123	3	P	62	50			50			2,40
	91221124	4	P/1		52	79		65		13	2,64
	91221125	5	P/1		52	79		80		28	2,80
120	91221201	1	P	60	40			20	20		1,20
	91221202	2	P	60	50			35	15		1,85
	91221203	3	P	70	50			50			2,40
	91221204	4	P/1		52	87		65		13	2,93
	91221205	5	P/1		52	87		80		28	3,70
125	91221251	1	P	60	40			20	20		1,30
	91221252	2	P	60	50			35	15		1,90
	91221253	3	P	70	50			50			2,50
	91221254	4	P/1		52	92		65		13	3,10
130	91221301	1	P	60	45			20	20		1,40
	91221302	2	P	60	45			35	10		2,20
	91221303	3	P	70	52			50			3,00
	91221304	4	P/1		52	97		65		13	3,10
	91221305	5	P/1		52	97		80		28	2,80
140	91221401	1	D	60	40	107	10	20	20		1,50
	91221402	2	D	60	50	107	10	35	15		2,00
	91221403	3	D	70	52	107	12	50	2		2,50
	91221404	4	P/1		52	107		65		13	2,70
	91221405	5	P/1		52	107		80		28	1,70
150	91221501	1	D	60	40	107	10	20	20		1,60
	91221502	2	D	60	45	107	10	35	10		2,50
	91221503	3	D	70	52	107	12	50	2		3,60
	91221504	4	P/1		52	107		65		13	4,40
	91221505	5	P/1		52	107		80		28	4,00

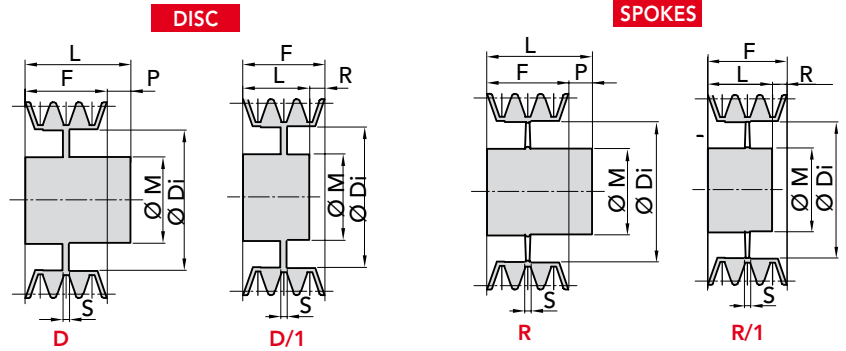
MATERIAL CAST-IRON



V-PULLEYS PILOT BORE

## SOLID HUB

### SPA TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT	GROOVES					Kg.	
												min						
160	91221601	1	D	60	40	127	10	20	20		1,70							
	91221602	2	D	60	50	127	10	35	15		2,40							
	91221603	3	D	70	52	127	12	50	2		2,80							
	91221604	4	D/1	70	52	127	18	65		13	2,45							
	91221605	5	D/1	80	52	127	18	80		28	3,20							
170	91221701	1	D	60	40	137	12	20	20		2,00							
	91221702	2	D	60	45	137	12	35	10		2,90							
	91221703	3	D	70	52	137	12	50	2		3,80							
	91221704	4	D/1	80	52	137	18	65		13	4,10							
	91221705	5	D/1	80	52	137	18	80		28	4,60							
180	91221801	1	D	65	40	147	12	20	20		2,50							
	91221802	2	D	70	50	147	12	35	15		3,10							
	91221803	3	D	70	52	147	12	50	2		4,20							
	91221804	4	D/1	80	60	147	18	65		5	4,80							
	91221805	5	D/1	80	65	147	18	80		15	5,00							
190	91221902	2	D	70	50	157	12	35	15		3,20							
200	91222001	1	D	65	45	167	12	20	25		2,70							
	91222002	2	D	70	50	167	12	35	15		3,70							
	91222003	3	D	70	50	167	12	50		5	4,80							
	91222004	4	D/1	80	60	167	18	65		15	5,50							
	91222005	5	D/1	80	65	167	18	80			5,80							
225	91222251	1	D	65	45	192	12	20	25		3,00							
	91222252	2	D	70	50	192	12	35	15		3,80							
	91222253	3	D	80	50	192	12	50		5	5,00							
	91222254	4	D/1	90	60	192	18	65		15	5,60							
	91222255	5	D/1	90	65	192	18	80			6,00							
250	91222501	1	D	75	50	217	12	20	30		3,70							
	91222502	2	D	75	50	217	12	35	15		4,30							
	91222503	3	D	80	60	217	12	50	10		4,60							
	91222504	4	D	90	65	217	18	65		15	6,10							
	91222505	5	D/1	90	65	217	18	80			6,20							
280	91222801	1	R	75	50	247	14	20	30		3,90							
	91222802	2	R	80	50	247	14	35	15		5,30							
	91222803	3	R	80	60	247	14	50	10		6,70							
	91222804	4	R	90	65	247	14	65		15	8,10							
	91222805	5	R/1	100	65	247	14	80			8,80							
300	91223001	1	R	75	50	267	14	20	30		4,20							
	91223002	2	R	80	50	267	14	35	15		5,90							
	91223003	3	R	80	60	267	14	50	10		7,60							
	91223004	4	R	90	70	267	14	65		5	9,30							
	91223005	5	R/1	100	70	267	14	80			10,3							
315	91223152	2	R	80	50	282	14	35	15		6,60							

MATERIAL **CAST-IRON**

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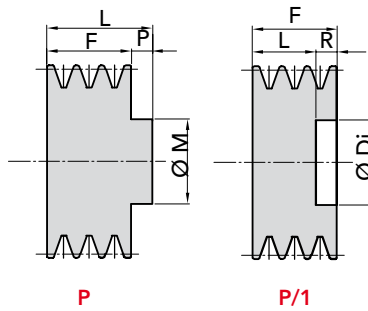




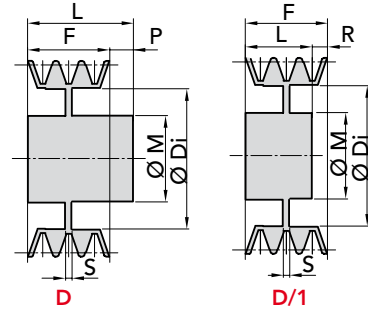
## SOLID HUB

### SPB TYPE

SOLID



DISC



V-PULLEYS PILOT BORE

Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT	Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES												GROOVES											
60	91320603	3	P	50	67			63	4		1,70	130	91321301	1	P	60	45			25	20		2,00
70	91320701	1	P	45	45			25	20		0,70		91321302	2	P	60	55			44	11		2,60
	91320702	2	P	45	55			44	11		1,40		91321303	3	P/1	60	88			63	3		4,20
	91320703	3	P		63			63			2,10		91321304	4	P/1	60	88			82	22		5,00
	91320704	4	P		82			82			2,50		91321305	5	P/1	60	88			101	41		5,50
	91320705	5	P		101			101			3,00	140	91321401	1	P	65	45			25	20		2,10
80	91320801	1	P	50	45			25	20		1,00		91321402	2	P	65	55			44	11		2,90
	91320802	2	P	50	55			44	11		1,60		91321403	3	P/1	60	98			63	3		4,40
	91320803	3	P	50	63			63			2,20		91321404	4	P/1	60	98			82	22		5,30
	91320804	4	P		82			82			2,80		91321405	5	P/1	60	98			101	41		5,74
	91320805	5	P		101			101			3,40		91321406	6	P/1	60	98			120	60		6,74
90	91320901	1	P	50	45			25	20		1,10	150	91321501	1	P	65	45			25	20		2,40
	91320902	2	P	50	55			44	11		1,70		91321502	2	P	65	55			44	11		3,20
	91320903	3	P		63			63			2,30		91321503	3	P/1	60	108			63	3		4,60
	91320904	4	P		82			82			2,90		91321504	4	P/1	60	108			82	22		5,50
	91320905	5	P		101			101			3,50		91321505	5	P/1	60	108			101	41		6,00
100	91321001	1	P	52	45			25	20		1,30		91321506	6	P/1	60	108			120	60		7,00
	91321002	2	P	55	55			44	11		1,80	160	91321601	1	D	65	45	118	12	25	20		2,50
	91321003	3	P		63			63			2,90		91321602	2	D	70	55	118	12	44	11		3,30
	91321004	4	P		82			82			3,70		91321603	3	P/1	60	118			63	3		4,80
	91321005	5	P		101			101			4,50		91321604	4	P/1	60	118			82	22		5,70
112	91321121	1	P	55	45			25	20		1,50		91321605	5	P/1	60	118			101	41		7,00
	91321122	2	P	60	55			44	11		1,90		91321606	6	P/1	65	118			120	55		8,30
	91321123	3	P		63			63			3,50	170	91321701	1	D	65	45	128	12	25	20		2,80
	91321124	4	P		82			82			4,70		91321702	2	D	70	55	128	12	44	11		3,40
	91321125	5	P		101			101			4,80		91321703	3	P/1	60	128			63	3		5,10
120	91321201	1	P	55	45			25	20		1,70		91321704	4	P/1	60	128			82	22		5,92
	91321202	2	P	60	55			44	11		2,10		91321705	5	P/1	60	128			101	41		7,30
	91321203	3	P		63			63			3,80		91321706	6	P/1	65	128			120	55		8,70
	91321204	4	P		82			82			4,20	180	91321801	1	D	65	45	138	12	25	20		3,10
	91321205	5	P		101			101			5,00		91321802	2	D	70	55	138	12	44	11		3,90
125	91321251	1	P	58	45			25	20		1,90		91321803	3	D/1	80	60	138	18	63	3		5,20
	91321252	2	P	60	55			44	11		2,40		91321804	4	P/1	60	138			82	22		6,18
	91321253	3	P/1	60	83			63	3		4,00		91321805	5	P/1	70	138			101	31		7,40
	91321254	4	P/1	60	83			82	22		4,70		91321806	6	P/1	70	138			120	50		8,70
	91321255	5	P/1	60	83			101	41		5,20												

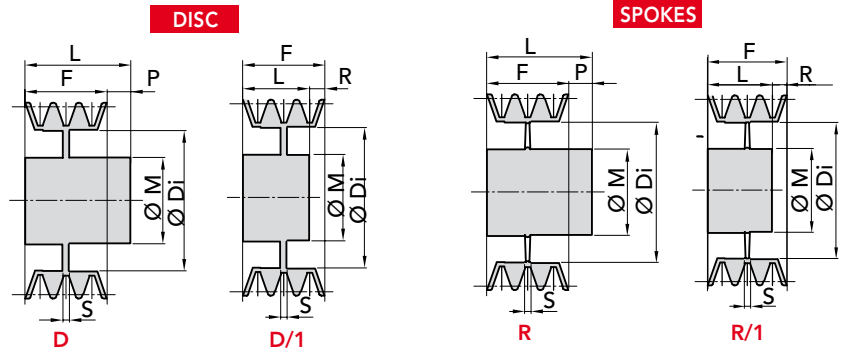
MATERIAL **CAST-IRON**



V-PULLEYS PILOT BORE

## SOLID HUB

### SPB TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT	Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES												GROOVES											
min												min											
Kg.												Kg.											
200	91322001	1	D	70	45	158	14	25	20		3,40	315	91323151	1	R	76	50	273	15	25	25		6,40
	91322002	2	D	70	55	158	14	44	11		4,40		91323152	2	R	88	60	273	15	44	16		8,20
	91322003	3	D/1	88	60	158	18	63		3	5,80		91323153	3	R/1	90	60	273	18	63		3	14,0
	91322004	4	D/1	88	60	158	25	82		22	6,77		91323154	4	R/1	96	65	273	20	82		17	17,0
	91322005	5	D/1	96	70	158	25	101		31	8,17		91323155	5	R/1	104	75	273	22	101		26	19,0
	91322006	6	D/1	96	80	158	25	120		50	9,57		91323156	6	R/1	120	90	273	22	120		30	24,0
212	91322121	1	D	70	45	170	14	25	20		3,70	340	91323401	1	R	80	50	298	15	25	25		6,70
	91322122	2	D	77	55	170	14	44	11		4,60		91323402	2	R	88	60	298	15	44	16		12,5
	91322123	3	D/1	88	60	170	18	63		3	6,00		91323403	3	R/1	92	60	298	18	63		3	15,0
	91322124	4	D/1	88	60	170	25	82		22	7,00		91323404	4	R/1	96	65	298	20	82		17	19,0
	91322125	5	D/1	96	70	170	25	101		31	8,60		91323405	5	R/1	104	75	298	22	101		26	20,0
	91322126	6	D/1	104	80	170	25	120		40	10,0		91323406	6	R/1	120	90	298	22	120		30	28,0
224	91322244	4	D/1	88	60	182	25	82		22	3,85	355	91323551	1	R	80	50	313	16	25	25		7,00
225	91322251	1	D	70	45	183	14	25	20		4,00		91323552	2	R	88	60	313	18	44	16		13,0
	91322252	2	D	77	55	183	14	44	11		5,40		91323553	3	R/1	92	60	313	22	63		3	16,0
	91322253	3	D/1	88	60	183	18	63		3	6,90		91323554	4	R/1	96	65	313	22	82		17	19,0
	91322254	4	D/1	88	60	183	25	82		22	7,83		91323555	5	R/1	104	75	313	24	101		26	21,0
	91322255	5	D/1	96	70	183	25	101		31	9,33		91323556	6	R/1	120	90	313	24	120		30	29,0
	91322256	6	D/1	104	80	183	25	120		40	10,83	380	91323801	1	R	85	55	338	20	25	30		8,00
236	91322364	4	D/1	88	60	194	25	82		22	8,10		91323802	2	R	88	60	338	20	44	16		13,5
250	91322501	1	D	70	50	208	14	25	25		4,20		91323803	3	R	96	65	338	22	63	2		17,0
	91322502	2	D	77	55	208	14	44	11		6,10		91323804	4	R/1	104	75	338	24	82		7	20,0
	91322503	3	D/1	88	60	208	18	63		3	8,60		91323805	5	R/1	112	85	338	24	101		16	23,0
	91322504	4	D/1	96	65	208	25	82		17	10,36		91323806	6	R/1	120	100	338	28	120		20	30,0
	91322505	5	D/1	104	75	208	25	101		26	12,86	400	91324001	1	R	85	55	358	20	25	30		9,80
	91322506	6	D/1	104	80	208	25	120		40	15,36		91324002	2	R	88	60	358	20	44	16		14,0
280	91322801	1	R	76	50	238	14	25	25		5,70		91324003	3	R	96	65	358	22	63	2		18,0
	91322802	2	R	80	55	238	14	44	11		7,00		91324004	4	R/1	104	75	358	24	82		7	21,0
	91322803	3	R/1	90	60	238	18	63		3	9,60		91324005	5	R/1	112	85	358	24	101		16	24,0
	91322804	4	R/1	96	65	238	25	82		17	12,06		91324006	6	R/1	120	100	358	28	120		20	32,0
	91322805	5	R/1	104	75	238	25	101		26	13,91	425	91324503	3	R	96	65	383	24	63	2		19,0
	91322806	6	R/1	104	80	238	25	120		40	17,0		91324504	4	R/1	104	75	383	24	82		7	22,0
300	91323001	1	R	76	50	258	15	25	25		6,50		91324505	5	R/1	112	85	383	28	101		16	26,0
	91323002	2	R	80	55	258	15	44	11		7,50		91324256	6	R/1	120	100	385	28	120		20	35,0
	91323003	3	R/1	90	60	258	18	63		3	12,0												
	91323004	4	R/1	96	65	258	20	82		17	16,0												
	91323005	5	R/1	104	75	258	22	101		26	19,0												
	91323006	6	R/1	104	80	258	22	120		40	23,0												

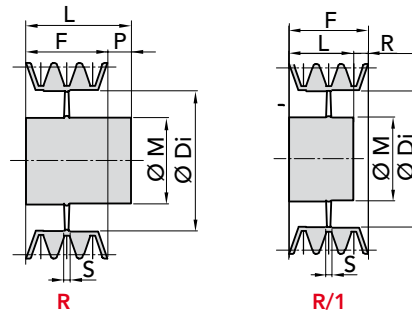
MATERIAL CAST-IRON



## SOLID HUB

### SPB TYPE

#### SPOKES



V-PULLEYS PILOT BORE

Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
		GROOVES				min				Kg.	
450	91324501	1	R	90	60	408	20	25	35		10,00
	91324502	2	R	90	6a0	408	20	44	16		14,50
	91324503	3	R	96	65	408	24	63	2		22,00
	91324504	4	R/1	104	75	408	26	82	7		25,00
	91324505	5	R/1	112	85	408	26	101	16		28,50
	91324506	6	R/1	120	100	408	30	120	20		36,00
500	91325001	1	R	100	60	458	20	25	35		11,00
	91325002	2	R	100	65	458	20	44	21		15,00
	91325003	3	R	104	75	458	24	63	12		24,00
	91325004	4	R	112	85	458	26	82	3		27,50
	91325005	5	R/1	120	90	458	30	101	11		31,00
	91325006	6	R/1	129	105	458	30	120	15		39,00
560	91325601	1	R	100	60	518	20	25	35		15,00
	91325602	2	R	100	65	518	20	44	21		17,00
	91325603	3	R	104	75	518	24	63	12		29,50
	91325604	4	R	112	85	518	26	82	3		34,00
	91325605	5	R/1	120	90	518	30	101	11		36,00
	91325606	6	R/1	128	105	518	35	120	15		48,00
600	91326001	1	R	100	60	558	22	25	35		16,00
	91326002	2	R	100	65	558	22	44	21		18,00
	91326003	3	R	104	75	558	28	63	12		31,00
	91326004	4	R	115	85	558	28	82	3		35,00
	91326005	5	R/1	120	90	558	30	101	11		42,00
	91326006	6	R/1	128	105	558	35	120	15		49,00
630	91326301	1	R	100	60	588	22	25	35		18,00
	91326302	2	R	100	65	588	28	44	21		19,00
	91326303	3	R	104	75	588	28	63	12		33,00
	91326304	4	R	120	85	588	32	82	3		36,00
	91326305	5	R/1	128	90	588	32	101	11		48,00

ON DEMAND  
ON DEMAND

MATERIAL CAST-IRON

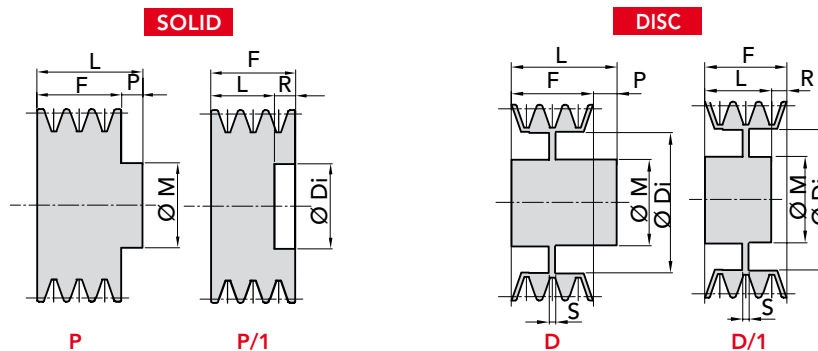
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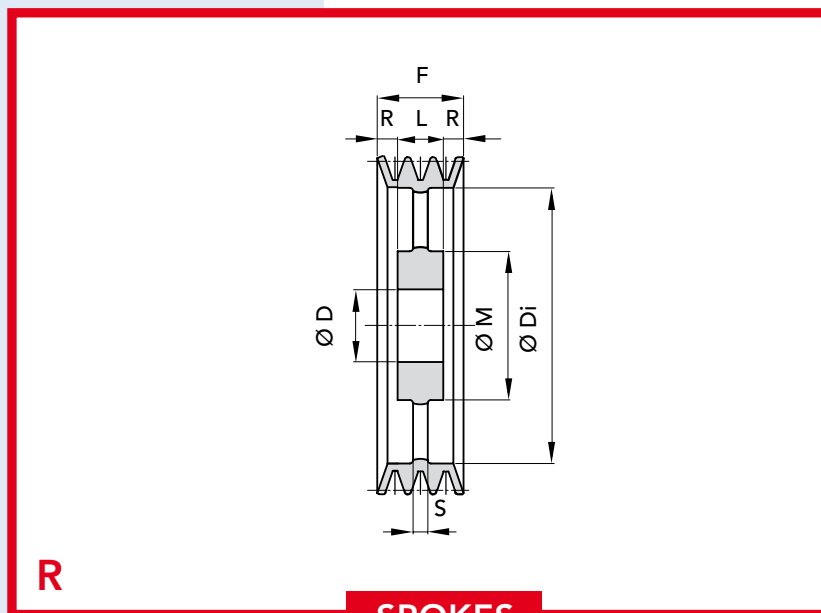
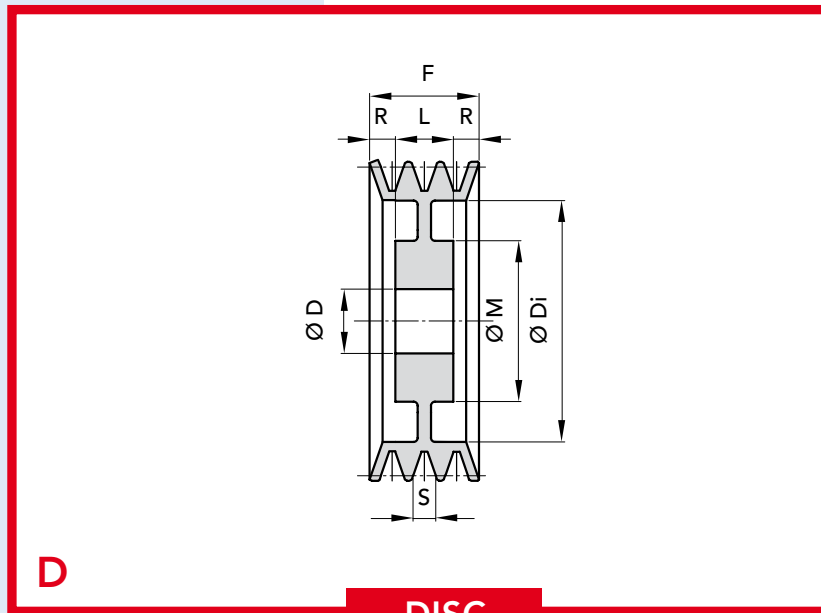
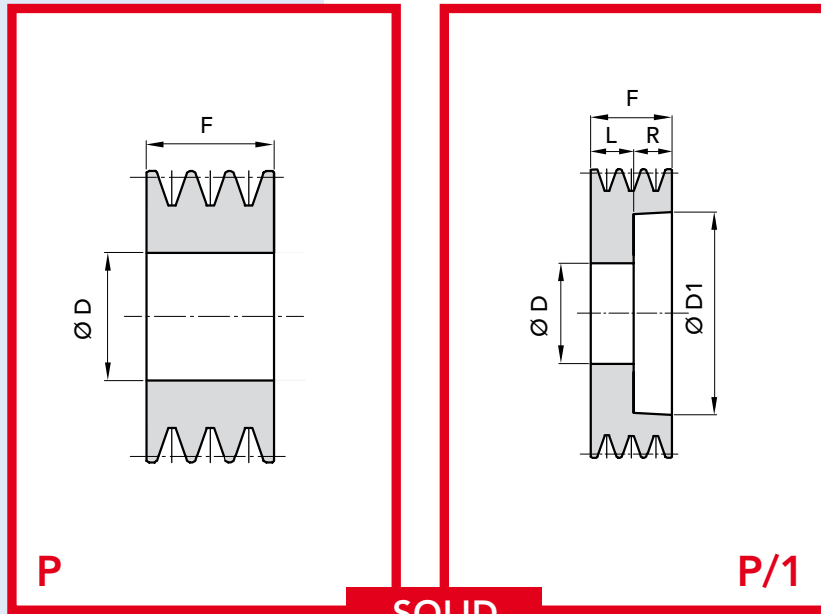
## SOLID HUB

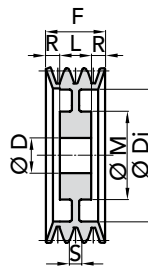
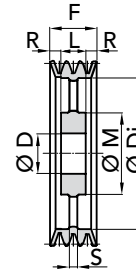
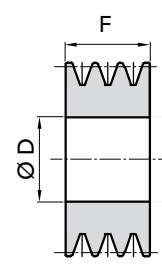
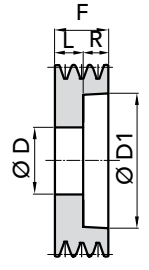
## SPC TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT	
GROOVES												
											min	Kg.
120	91421201	1	P	65	50			34	16		2,30	
	91421202	2	P	65	65			59,5	5,5		2,60	
140	91421401	1	P	70	55			34	21		2,10	
	91421402	2	P		59,5			59,5			2,90	
	91421403	3	P/1		65	83		85	20		3,90	
	91421404	4	P/1		80	83		111	30,5		4,74	
150	91421501	1	P	70	50			34	16		3,10	
	91421502	2	P	72	59,5			59,5			3,90	
	91421503	3	P/1		65	93		85	20		4,70	
	91421504	4	P/1		80	93		111	30,5		5,70	
	91421505	5	P/1		96	93		136	40		6,70	
160	91421601	1	P	72	50			34	16		3,70	
	91421602	2	P		59,5			59,5			4,60	
	91421603	3	P/1		65	103		85	20		5,70	
	91421604	4	P/1		80	103		111	30,5		7,00	
	91421605	5	P/1		96	103		136	40		8,30	
180	91421801	1	D	76	50	123	16	34	16		3,10	
	91421802	2	D	80	60	123	16	59,5	0,5		3,90	
	91421803	3	D/1	82	65	123	18	85	20		5,20	
	91421804	4	D/1	82	80	123	20	111	30,5		6,18	
	91421805	5	D/1	82	96	123	20	136	40		7,48	
200	91422001	1	D	76	50	143	16	34	16		3,40	
	91422002	2	D	80	60	143	16	59,5	0,5		4,80	
	91422003	3	D/1	86	65	143	18	85	20		5,80	
	91422004	4	D/1	90	90	143	25	111	20,5		6,70	
	91422005	5	D/1	90	100	143	25	136	36		8,70	
225	91422251	1	D	86	50	168	18	34	16		5,50	
	91422252	2	D	88	60	168	18	59,5	0,5		6,90	
	91422253	3	D/1	90	70	168	25	85	15		7,83	
	91422254	4	D/1	90	90	168	25	111	20,5		9,33	
	91422255	5	D/1	90	100	168	25	136	36		10,83	
250	91422501	1	D	86	50	193	18	34	16		7,30	
	91422502	2	D	92	60	193	18	59,5	0,5		8,60	
	91422503	3	D/1	92	70	193	25	85	15		10,36	
	91422504	4	D/1	100	90	193	25	111	20,5		12,86	
	91422505	5	D/1	102	100	193	25	136	36		15,36	

MATERIAL CAST-IRON




**for LOCKING DEVICES**
**SPA TYPE**
**DISC**

**D**
**SPOKES**

**R**
**SOLID**

**P**

**P/1**

Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
90	91250902			2	P	35						0,20
	91250903			3	P	50						1,10
	91250905			5	P	80						2,00
95	91250952			2	P	35					0,85	
100	91251001			1	P	20						0,50
	91251002	91261002		2	P	35						0,90
	91251003			3	P	50						1,30
105	91251052			2	P	35					0,95	
120	91251202			2	P/1	35	27		8	88		1,00
125		91261252		2	P/1	35	27		8	92		1,00
		91261253		3	P/1	50	27		23	92		1,80
		91261254		4	P/1	65	27		38	92		2,40
130		91261303		3	P/1	50	27		23	97		1,75
140		91261403		4	P/1	65	27		38	107		1,50
150	91251502			2	P/1	35	27		8	117		1,35
		91261504		4	P/1	65	27		38	117		2,15
160	91251602	91261602		2	P/1	35	27		8	127		1,50
		91261603		3	P/1	50	27		23	127		1,90
170	91251702			2	D	35	27		4	137	27	1,60
180	91251802	91261802		2	D	35	27		4	147	27	1,70
	91251803	91271803		3	D	50	27		11,5	147	27	2,40
190		91261902		2	D	35	27	120	4	157	12	1,80
		91261903		3	D	50	27	120	11,5	157	12	2,50
200	91252002	91262002		2	D	35	27	120	4	167	12	1,90
		91262003		3	D	50	27	120	11,5	167	14	2,60
		91262004		4	D	65	27	120	19	167	14	3,30
225	91252252	91262252		2	D	35	27	120	4	192	12	2,20
		91262253		3	D	50	27	120	11,5	192	14	2,80
250	91252502			2	R	35	27	130	4	217	14	2,80
			91282503	3	R	50	27	130	11,5	217	14	3,50
		91262504		4	R	65	27	130	19	217	14	4,20
300			91283004	4	R	65	27	130	19	267	14	3,40

**MATERIAL CAST-IRON**

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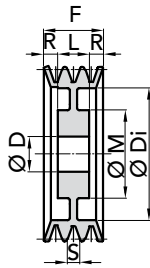
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## for LOCKING DEVICES

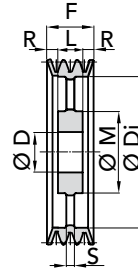
### SPB TYPE

DISC



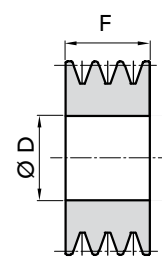
D

SPOKES

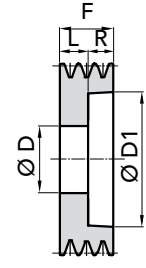


R

SOLID



P



P/1

Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
112	91351121			1	P	25						1,50
	91351122			2	P/1	44	27		17	70		1,90
120		91361202		2	P/1	44	27		17	78		2,10
		91361203		3	P/1	63	27		36	78		3,80
		91361204		4	P/1	82	27		55	78		4,20
125	91351251			1	P	25						1,90
		91371252		2	P/1	44	27		17	83		2,40
		91361253		3	P/1	63	27		36	83		4,00
130		91361302	91381302	2	P/1	44	27		17	90		2,60
		91361303	91381303	3	P/1	63	27		36	90		4,20
		91361304	91381304	4	P/1	82	27		55	90		5,00
			91381305	5	P/1	101	27		74	90		5,50
			91381306	6	P/1	120	27		93	90		6,00
	140	91351402	91361402	91381402	2	P/1	44	27		17	98	
91361403			91381403	3	P/1	63	27		36	98		4,40
91361404			91381404	4	P/1	82	27		55	98		5,30
			91381405	5	P/1	101	27		74	98		5,80
150	91351501 91351502	91361501		1	P	25						2,40
		91361502	91381502	2	P/1	44	27		17	108		3,20
		91361503	91381503	3	P/1	63	27		36	108		4,60
		91361504	91381504	4	P/1	82	27		55	108		5,50
			91381505	5	P/1	101	27		74	108		6,00
160	91351601	91361601		1	P	25						2,50
		91361602	91381602	2	P/1	44	27		17	118		3,30
		91361603	91381603	3	P/1	63	27		36	118		4,80
			91381604	4	P/1	82	27		55	118		5,70
			91381605	5	P/1	101	27		74	118		7,00
			91381606	6	P/1	120	27		93	118		8,30
170			91381702	2	D	44	27		8,5	128	27	3,40
		91361703	91381703	3	D	63	27		18	128	27	5,10
			91381704	4	D	82	27		27,5	128	27	5,90
			91381705	5	D	101	27		37	128	27	7,40
180				1	P	25						3,10
		91361802	91381802	2	D	44	27		8,5	138	27	3,90
		91361803	91381803	3	D	63	27		18	138	27	5,20
		91361804	91381804	4	D	82	27		27,5	138	27	6,20
			91381805	5	D	101	27		37	138	27	7,50
			91381806	6	D	120	27		46,5	138	27	8,90

V-BELT PULLEYS for LOCKING DEVICES SPB

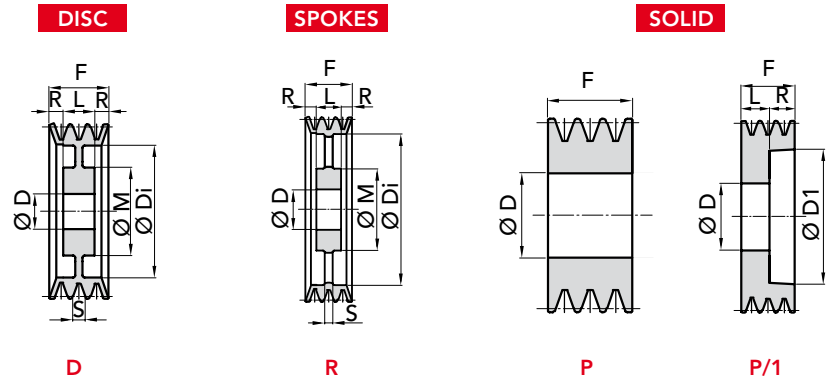
MATERIAL **CAST-IRON**

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for LOCKING DEVICES

**SPB** TYPE


Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
190		91361901	91381902	1	P	25						3,50
			91381903	2	D	44	27		8,5	148	27	6,50
			91381904	3	D	63	27		18	148	27	7,00
			91381905	4	D	82	27		27,5	148	27	8,00
				5	D	101	27		37	148	27	9,00
200		91362001 91372002 91362003 91362004	91382001	1	P	25						4,00
			91382002	2	D	44	27	120	8,5	158	15	7,00
			91382003	3	D	63	27	120	18	158	15	8,00
			91382004	4	D	82	27	120	27,5	158	15	9,00
			91382005	5	D	101	27	120	37	158	15	10,0
			91382006	6	D	120	27	120	46,5	158	18	11,0
212		91362122 91362123 91362124	91382122	2	D	44	27	120	8,5	170	15	7,00
			91382123	3	D	63	27	120	18	170	15	8,50
			91382124	4	D	82	27	120	27,5	170	15	10,0
			91382125	5	D	101	27	120	37	170	15	11,0
225	91352253	91372252 91362253 91362254	91382252	2	D	44	27	120	8,5	183	15	7,70
			91382253	3	D	63	27	120	18	183	15	9,00
			91382254	4	D	82	27	120	27,5	183	15	10,5
			91382255	5	D	101	27	120	37	183	15	11,5
			91382256	6	D	120	27	120	46,5	183	18	13,0
240			91382403	3	D	63	27	120	18	198	16	11,0
250	91352501 91352502	91372502 91372503 91362504	91382502	1	D	25	25	130		208	16	6,20
			91382503	2	D	44	27	130	8,5	208	16	8,50
			91382504	3	D	63	27	130	18	208	16	11,0
			91382505	4	D	82	27	130	27,5	208	16	12,0
			91382506	5	D	101	27	130	37	208	16	18,0
				6	D	120	27	130	46,5	208	18	22,0
280			91382802	1	D	25	25	120		238	16	6,50
			91382803	2	D	44	27	120	8,5	238	16	10,0
			91382804	3	D	63	27	120	18	238	16	12,5
			91382805	4	D	82	27	120	27,5	238	16	14,0
				5	D	101	27	130	37	238	16	21,0
300	91353001		91383004	1	R	25	25	130		258	15	7,00
			91383005	4	R	82	27	130	27,5	258	20	16,0
				5	R	101	27	130	37	258	22	19,0
315		91363153	91383154	3	R	63	27	130	18	273	18	14,0
			91383155	4	R	82	27	130	27,5	273	20	20,0
				5	R	101	27	130	37	273	22	22,0
355	91353551			1	R	25	25	130		308	16	16,0

 MATERIAL **CAST-IRON**

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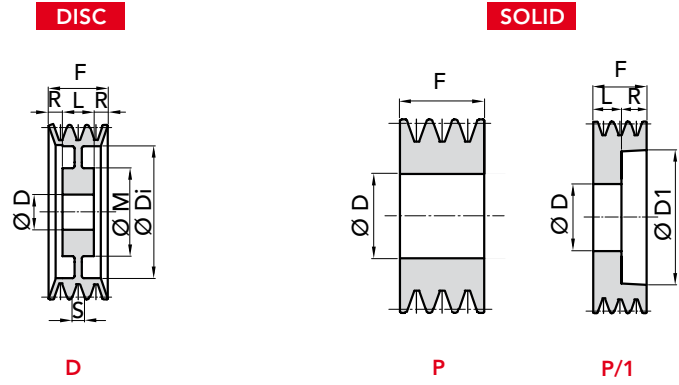
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## for LOCKING DEVICES

### SPC TYPE



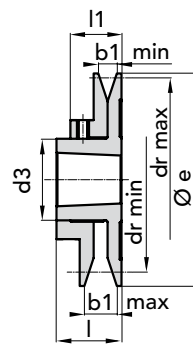
Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
160			91481603	3	P/1	85	27		58	103		2,60
190			91481903	3	P/1	85	27		58	133		2,90
225			91482253	3	D	85	27	120	29	168	25	3,40

V-BELT PULLEYS for LOCKING DEVICES SPC

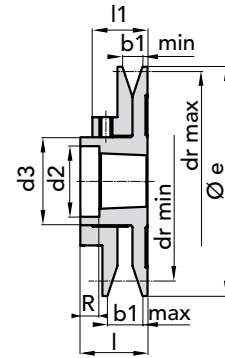
MATERIAL **CAST-IRON**

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EXECUTION 1



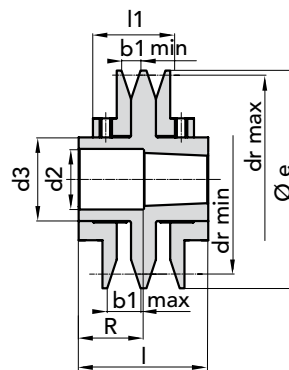
EXECUTION 2

PULLEY TYPE	P. NUMBER	EXEC.	N° GROOVES	BUSHE	Ø e	l	l1	b1		dr		d2	d3	R	GRUB DIN 916 UNI 5929	SECTION BELT	WEIGHT Kg.
								min	max	min	max						
PRB - 93	90000931	2	1	1108	93	36,5	29	10	17,5	57 59	78 85	46	M60x2	13,5	No.4 M6x6	Z 10x6 A 13x8	0,86
PRB - 108	90001081	1	1	1215	108	38	30,5	10	17,5	68 70 75 76	92 100 93 102	-	M72x2	-	No.4 M6x6	Z 10x6 A 13x8 SPZ SPA	1,18
PRB - 120	90001201	1	1	1215	120	38	30,5	10	17,5	80 82 87 88	104 112 105 114	-	M72x2	-	No.4 M6x6	Z 10x6 A 13x8 SPZ SPA	1,46
PRB - 138	90001381	1	1	1615	138	38	30,5	10	17,5	98 100 105 106	122 130 123 132	-	M85x2	-	No.4 M6x6	Z 10x6 A 13x8 SPZ SPA	2,00
PRB - 160	90001601	2	1	1615	160	45	35,5	13	22,5	108 112 114 117	138 150 140 153	69	M85x2	6,5	No.4 M8x8	A 13x8 B 17x11 SPA SPB	3,04
PRB - 180	90001801	2	1	2012	180	45	35,5	13	22,5	128 132 134 137	158 170 160 173	87	M110x2	12,5	No.4 M8x8	A 13x8 B 17x11 SPA SPB	3,80
PRB - 200	90002001	2	1	2012	200	45	35,5	13	22,5	149 152 155 159	177 190 179 193	87	M110x2	12,5	No.4 M8x8	A 13x8 B 17x11 SPA SPB	4,75

MATERIAL **CAST-IRON G20**  
**UNI 5007**

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**EXECUTION 3**

PULLEY TYPE	P. NUMBER	EXEC. N°	BUSHE GROOVES	Ø e	l	l1	b1		dr		d2	d3	R	GRUB DIN 916 UNI 5929	SECTION BELT	WEIGHT Kg.	
							min	max	min	max							
PRB2 - 108	90001082	3	2	1215	108	73	58	10	17,5	68	92	57	M72x2	34,5	No. 8 M6x6	Z 10x6 A 13x8 SPZ SPA	2,40
										70	100						
										75	93						
										76	102						
PRB2 - 120	90001202	3	2	1215	120	73	58	10	17,5	80	104	57	M72x2	34,5	No. 8 M6x6	Z 10x6 A 13x8 SPZ SPA	2,65
										82	112						
										87	105						
										88	114						
PRB2 - 138	90001382	3	2	1615	138	73	58	10	17,5	98	122	69	M85x2	34,5	No. 8 M6x6	Z 10x6 A 13x8 SPZ SPA	3,60
										100	130						
										105	123						
										106	132						
PRB2 - 160	90001602	3	2	1615	160	87	68	13	22,5	108	138	69	M85x2	48,5	No. 8 M8x8	A 13x8 B 17x11 SPA SPB	5,60
										112	150						
										114	140						
										117	153						
PRB2 - 180	90001802	3	2	2012	180	87	68	13	22,5	128	158	87	M110x2	54	No. 8 M8x8	A 13x8 B 17x11 SPA SPB	7,15
										132	170						
										134	160						
										137	173						
PRB2 - 200	90002002	3	2	2012	200	87	68	13	22,5	149	177	87	M110x2	54	No. 8 M8x8	A 13x8 B 17x11 SPA SPB	8,92
										152	190						
										155	179						
										159	193						

ADJUSTABLE V-BELTS PULLEY PRB TYPE

MATERIAL **CAST-IRON G20  
UNI 5007**

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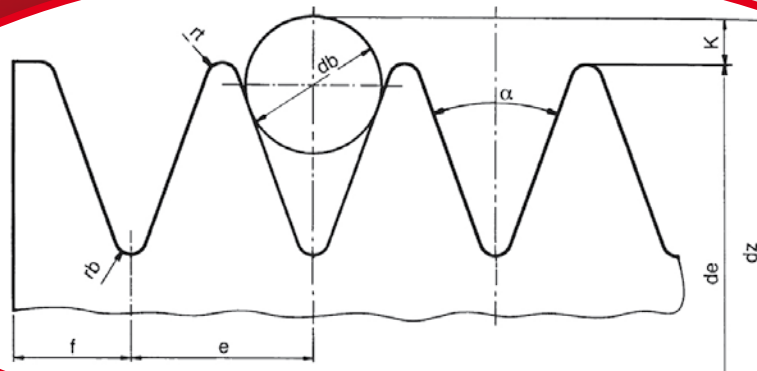


## TYPES

Grooved pulleys designed for industrial transmissions are identified by reference to the dimensions and the groove pitch in the following types: **PPV-J – PPV-L**

## PROFILE DIMENSIONS

The transverse profile dimensions of a grooved pulley are shown in the figure and in the table.



TABLE

TYPE	PPV-J	PPV-L
Grooves pitch e	2.34	4.70
Tolerance for e*	± 0.03	± 0.05
Sum of tolerances e**	± 0.30	± 0.30
Race angle a** ±0,5	40°	40°
rt min.	0.20	0.40
rb max	0.40	0.40
Diameter of the control sphere or roller db ± 0.01	1.50	3.50
2K** nominal	0.23	2.36
f min.	1.8	3.3

\* = this tolerance applies to the distance between the axes of two consecutive grooves

\*\* = the sum of all the tolerances "e" for all the races of each pulley must not exceed the value foreseen in the table

\* = the axis of each groove must form a  $90^\circ \pm 0.5^\circ$  angle with the pulley axis

\*\* = K is not in relation to the pulley's nominal diameter but is measured from the position of the measurement sphere or roller.



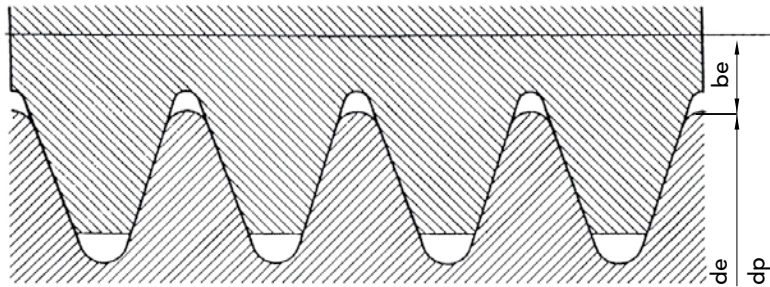
## PITCH LINE DIAMETER

The position of a grooved belt in contact with the corresponding pulley is shown in cross-section in the figure.

The real pitch line diameter **dp** of a grooved pulley measured along the belt is slightly greater than the actual diameter **de** and the exact value depends on the type of belt used.

For the purposes of illustration, the table shows the value **be** normally adopted to calculate the transmission ratio.

In practice it is sufficient to use the actual diameter **de** to calculate the transmission ratio.



$$dp \approx de + 2be$$

TYPE	PPV-J	PPV-L
2 be	2	5

## DESIGNATION

The designation includes the following details, in the order given: the "pulley" domination, the reference of the current standard, the number of grooves, the type and the actual diameter expressed in millimetres.

An example of the designation for a PPV-J type grooved pulley designed for industrial transmissions with 8 grooves and an actual diameter of 200mm

**8 PPV-J 200**

## DEGREE OF FINISH OF THE GROOVES

The surface roughness of the grooves shall be Ra 3.2 in compliance with ISO 254.

## MATERIALS

C45 UNI 7845

Pulleys are manufactured in steel.

## BALANCING

UNI 4218 – ISO 1940

Pulleys prepared for a tapered bush are statically balanced within grade G.6.3.

It is possible to perform dynamic balancing, on request.

**Dynamic balancing is essential for speeds exceeding 30 m/s.**



### DESIGN POWER CALCULATION

Make a note of the nominal power to be transmitted **P** (kw) (normally the nominal power of the electric motor), select the service factor **Co** based on the table and calculate the design power output **Pc** (kw) as follows: **Pc = Co x P**

### Service factor (Co)

## MOTOR TYPE

### CLASS A

- Synchronous and asynchronous, squirrel cage, normal torque, alternating current motor.
- Shunt winding direct current motor
- Internal combustion engine (steady-state condition <sup>3</sup> 700 r.p.m.)
- Turbines

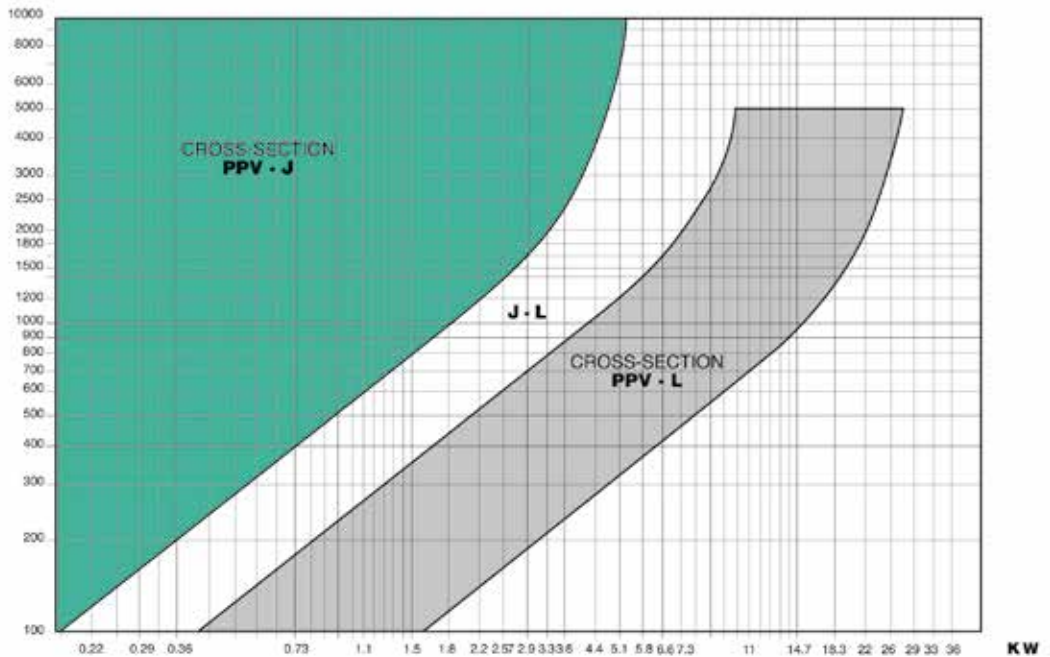
### CLASS B

- Asynchronous, squirrel cage, high torque alternating current motor
- Compound winding direct current motor
- Internal combustion engine (steady-state condition <sup>3</sup> 700 r.p.m.)
- Clutches

TYPE OF MACHINE DRIVEN	Class A Motor			Class B Motor		
	Number of daily operating hours					
	<10	10÷16	>16	<10	<10÷16	>16
• Liquid mixers • Blowers • Extractors • Centrifuge fans • Lightweight conveyors	1	1.1	1.2	1.1	1.2	1.3
• Mixers designed for pasty products • Blenders • Generators • Laundry machines • Machine tools	1.1	1.2	1.3	1.2	1.3	1.4
• Rotary compressors • Rotary pumps • Sieves • Heavyweight conveyors • Spraying systems • Dynamo • Bakery machines • Printing machines • Wood working machines • Axial fans • Brick making machines	1.2	1.3	1.4	1.3	1.4	1.5
• Piston compressors • Piston pumps • Crushers • Bucket elevators • Elevators • Paper making machines • Mills • Hoists	1.4	1.5	1.6	1.5	1.6	1.8
• Grinding machines • Crushing machines • Drainage systems • Calenders and extruders for rubber and plastics	1.6	1.7	1.8	1.7	1.8	2

## CROSS-SECTION SELECTION

R.p.m. of smallest pulley The type of cross-section is selected by using the diagram shown below.

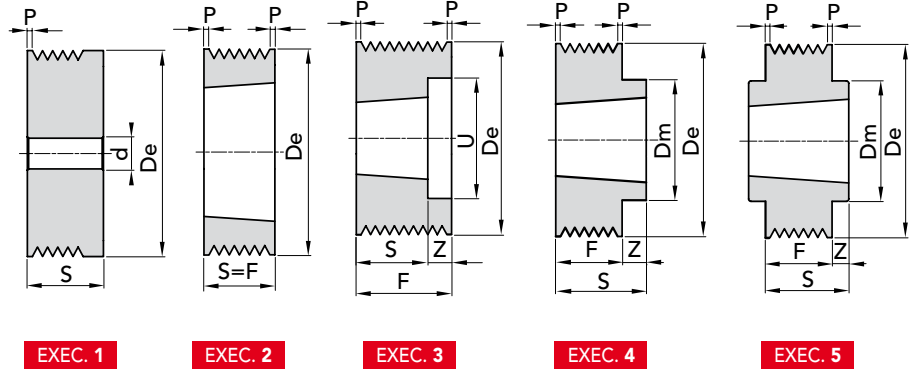




# V-BELT PULLEYS PPV-J MICRO V DIMENSIONS

## PPV-J TYPE pitch $2,34 \pm 0,025$

N° GROOVES	F±0.1	P
8	23	3.31
12	32.5	3.38
16	42	3.45



De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	d	WEIGHT Kg.
40	48108040	1	8	-	32	-	-	-	12	0,24
	48112040	1	12	-	41,5	-	-	-	12	0,31
	48116040	1	16	-	51	-	-	-	12	0,38
45	48108045	1	8	-	32	-	-	-	12	0,32
	48112045	1	12	-	41,5	-	-	-	12	0,41
	48116045	1	16	-	51	-	-	-	12	0,50
50	48108050	1	8	-	32	-	-	-	12	0,40
	48112050	1	12	-	41,5	-	-	-	12	0,52
	48116050	1	16	-	51	-	-	-	12	0,63
56	48108056	2	8	1108	23	-	-	-	-	0,39
	48112056	3	12	1108	23	9,5	-	40	-	0,65
	48116056	1	16	-	51	-	-	-	12	0,81
63	48108063	2	8	1108	23	-	-	-	-	0,50
	48112063	3	12	1108	23	9,5	-	46	-	0,39
	48116063	1	16	-	51	-	-	-	12	1,05
71	48108071	2	8	1108	23	-	-	-	-	0,64
	48112071	3	12	1108	23	9,5	-	46	-	0,57
	48116071	2	16	1215	42	-	-	55	-	0,63
75	48108075	2	8	1108	23	-	-	-	-	0,72
	48112075	3	12	1610	26	6,5	-	60	-	0,38
	48116075	3	16	1610	26	16	-	60	-	0,46
80	48108080	4	8	1610	26	3	70	-	-	0,41
	48112080	3	12	1610	26	6,5	-	60	-	0,52
	48116080	3	16	1610	26	16	-	60	-	0,64
85	48108085	4	8	1610	26	3	70	-	-	0,51
	48112085	3	12	1610	26	6,5	-	60	-	0,66
	48116085	3	16	1610	26	16	-	60	-	0,84
90	48108090	4	8	1610	26	3	70	-	-	0,62
	48112090	3	12	1610	26	6,5	-	74	-	0,76
	48116090	3	16	1610	26	16	-	74	-	0,87
95	48108095	4	8	1610	26	3	82	-	-	0,78
	48112095	3	12	1610	26	6,5	-	74	-	0,93
	48116095	3	16	1610	26	16	-	74	-	1,08
100	48108100	4	8	1610	26	3	82	-	-	0,90
	48112100	3	12	1610	26	6,5	-	74	-	1,10
	48116100	3	16	1610	26	16	-	74	-	1,32

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	d	WEIGHT Kg.
106	48108106	4	8	1610	26	3	82	-	-	1,05
	48112106	3	12	1610	26	6,5	-	88	-	1,24
	48116106	3	16	1610	26	16	-	88	-	1,40
112	48108112	4	8	1610	26	3	90	-	-	1,25
	48112112	3	12	1610	26	6,5	-	88	-	1,47
	48116112	3	16	1610	26	16	-	88	-	1,70
118	48108118	4	8	1610	26	3	90	-	-	1,43
	48112118	3	12	2012	32	0,5	-	98	-	1,55
	48116118	3	16	2012	32	10	-	98	-	1,79
125	48108125	4	8	1610	26	3	90	-	-	1,64
	48112125	3	12	2012	32	0,5	-	98	-	1,90
	48116125	3	16	2012	32	10	-	98	-	2,18
132	48108132	4	8	1610	26	3	90	-	-	1,88
	48112132	3	12	2012	32	0,5	-	98	-	2,21
	48116132	3	16	2012	32	10	-	98	-	2,60
140	48108140	4	8	1610	26	3	90	-	-	1,60
	48112140	4	12	2517	45	12,5	120	-	-	7,10
	48116140	4	16	2517	45	3	120	-	-	9,60
160	48108160	5	8	2012	32	4,5	110	-	-	3,01
	48112160	4	12	2517	45	12,5	120	-	-	3,80
	48116160	4	16	2517	45	3	120	-	-	4,37
180	48108180	5	8	2012	32	4,5	110	-	-	3,92
	48112180	5	12	2517	45	6,25	120	-	-	5,03
	48116180	5	16	2517	45	1,5	120	-	-	5,97
200	48108200	5	8	2012	32	4,5	110	-	-	4,88
	48112200	5	12	2517	45	6,25	120	-	-	6,40
	48116200	5	16	2517	45	1,5	120	-	-	7,75
224	48108224	5	8	2012	32	4,5	110	-	-	6,17
	48112224	5	12	2517	45	6,25	120	-	-	8,29
	48116224	5	16	2517	45	1,5	120	-	-	10,10
250	48108250	5	8	2012	32	4,5	110	-	-	7,73
	48112250	5	12	2517	45	6,25	120	-	-	7,95
	48116250	5	16	2517	45	1,5	120	-	-	8,20

V-BELT PULLEYS PPV-J MICRO V DIMENSIONS



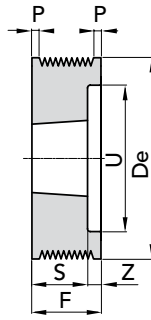
## PPV-L TYPE

pitch  $4,70 \pm 0,050$

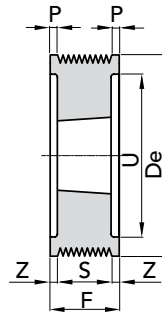
N° GROOVES

F±0.1

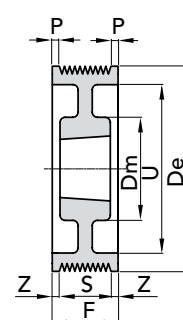
<b>8</b>	48	7.55
<b>12</b>	67	7.65
<b>16</b>	86	7.75



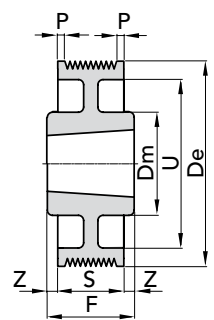
EXEC. 3



EXEC. 6



EXEC. 7



EXEC. 8

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	WEIGHT Kg.
75	48208075	3	8	1210	26	22	-	56	0,66
	48212075	3	12	1215	42	25	-	56	0,97
80	48208080	3	8	1210	26	22	-	56	0,86
	48212080	3	12	1215	42	25	-	56	1,25
85	48208085	3	8	1210	26	22	-	61	1,00
	48212085	3	12	1215	42	25	-	61	1,47
	48216085	6	16	1215	42	22	-	61	1,76
90	48208090	3	8	1610	26	22	-	66	1,01
	48212090	3	12	1615	42	25	-	66	1,45
	48216090	6	16	1615	42	22	-	66	1,78
95	48208095	3	8	1610	26	22	-	71	1,16
	48212095	3	12	1615	42	25	-	71	1,71
	48216095	6	16	1615	42	22	-	71	2,02
100	48208100	3	8	1610	26	22	-	76	1,31
	48212100	3	12	2012	32	35	-	79	1,39
	48216100	6	16	2012	32	27	-	79	1,69
106	48208106	3	8	1610	26	22	-	82	1,53
	48212106	3	12	2012	32	35	-	82	1,76
	48216106	6	16	2012	32	27	-	82	2,12
112	48208112	3	8	1610	26	22	-	88	1,75
	48212112	3	12	2012	32	35	-	88	2,02
	48216112	6	16	2012	32	27	-	88	2,42
118	48208118	3	8	2012	32	16	-	94	1,88
	48212118	6	12	2517	45	11	-	97	1,96
	48216118	6	16	2517	45	20,5	-	97	2,31
125	48208125	3	8	2012	32	16	-	101	2,22
	48212125	6	12	2517	45	11	-	101	2,46
	48216125	6	16	2517	45	20,5	-	101	2,92
132	48208132	3	8	2012	32	16	-	108	2,54
	48212132	6	12	2517	45	11	-	108	2,97
	48216132	6	16	2517	45	20,5	-	108	3,44

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	WEIGHT Kg.
140	48208140	3	8	2517	45	3	82	116	3,02
	48212140	6	12	2517	45	11	-	116	3,55
	48216140	6	16	2517	45	20,5	-	116	4,05
150	48208150	3	8	2517	45	3	-	126	3,75
	48212150	6	12	2517	45	11	-	126	4,30
	48216150	6	16	2517	45	20,5	-	126	4,85
160	48208160	3	8	2517	45	3	-	136	4,54
	48212160	6	12	2517	45	11	-	136	5,12
	48216160	6	16	3020	52	17	-	136	4,88
170	48208170	3	8	2517	45	3	-	146	5,35
	48212170	6	12	2517	45	11	-	146	6,03
	48216170	6	16	3020	52	17	-	146	5,96
180	48208180	7	8	2517	45	1,5	120	156	4,52
	48212180	7	12	2517	45	11	120	156	5,34
	48216180	6	16	3020	52	17	-	156	7,09
200	48208200	7	8	2517	45	1,5	120	176	5,07
	48212200	7	12	3020	52	7,5	146	176	6,99
	48216200	7	16	3020	52	17	146	176	7,92
224	48208224	7	8	2517	45	1,5	120	202	9,77
	48212224	7	12	3020	52	7,5	146	202	11,0
	48216224	7	16	3020	52	17	146	202	14,12
250	48208250	8	8	3020	52	2	146	228	13,12
	48212250	7	12	3020	52	7,5	146	228	15,60
	48216250	8	16	3535	89	1,5	178	228	16,13
280	48208280	8	8	3020	52	2	146	256	18,18
	48212280	7	12	3020	52	7,5	146	256	21,75
	48216280	8	16	3535	89	1,5	178	256	24,45
315	48208315	8	8	3020	52	2	146	285	24,82
	48212315	8	12	3535	89	11	178	285	42,64
	48216315	8	16	3535	89	1,5	178	285	35,34