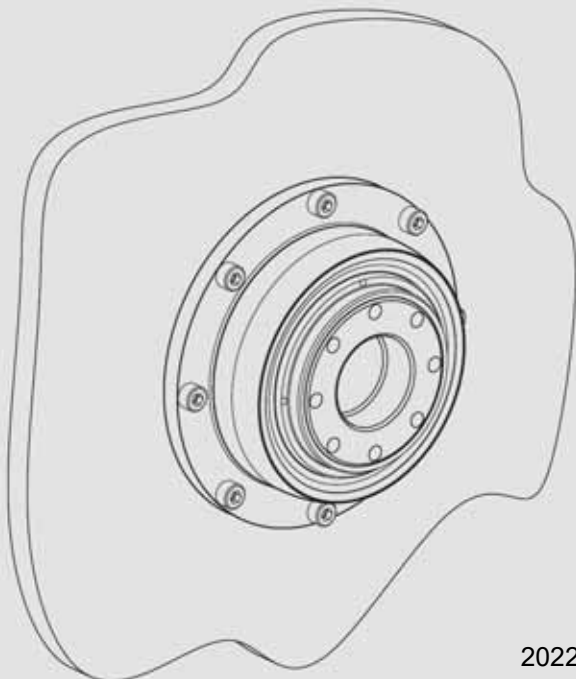
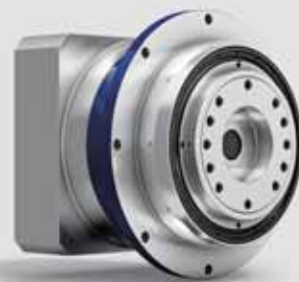


/
TP⁺/DP⁺/RP⁺



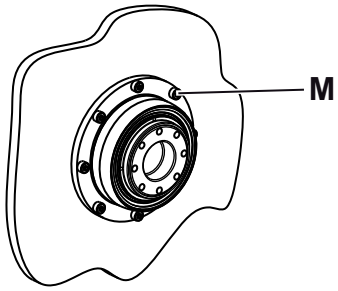
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2	2
2.1	2
3	/	2
3.1	2
4	3
4.1	3
4.2	4
4.2.1	4
4.2.2	4
4.3	5
5	6
5.1	6
5.2	6
5.3	6
5.3.1 DP ⁺ / HG ⁺ / RP ⁺ / SP ⁺ / TP ⁺ / XP ⁺	7
5.3.2 NP / NPL / NPR / NPS / NPT	8
5.3.3 CP/CPS	8
5.4	9
5.5	9
5.6 가	9

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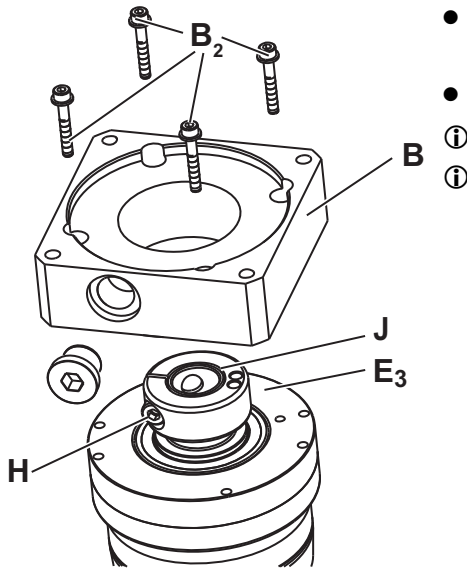


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	<ul style="list-style-type: none"> • 가 •
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4.1

	참 고
	가
	<ul style="list-style-type: none"> • • • WITTENSTEIN alpha GmbH •

	<p>(Sweating).</p> <p>(, Loctite® 573 574)</p>
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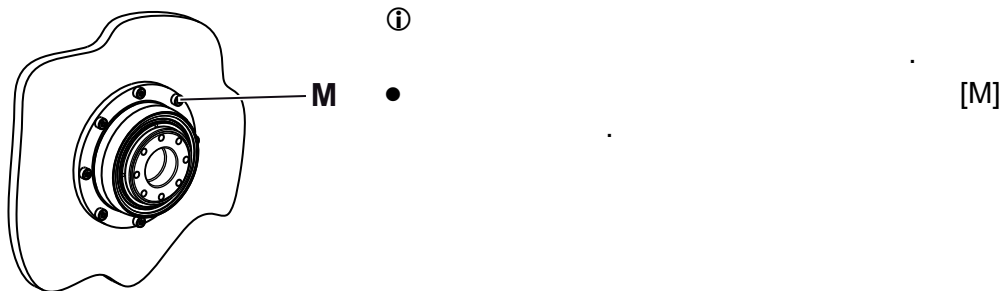
-
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4.2

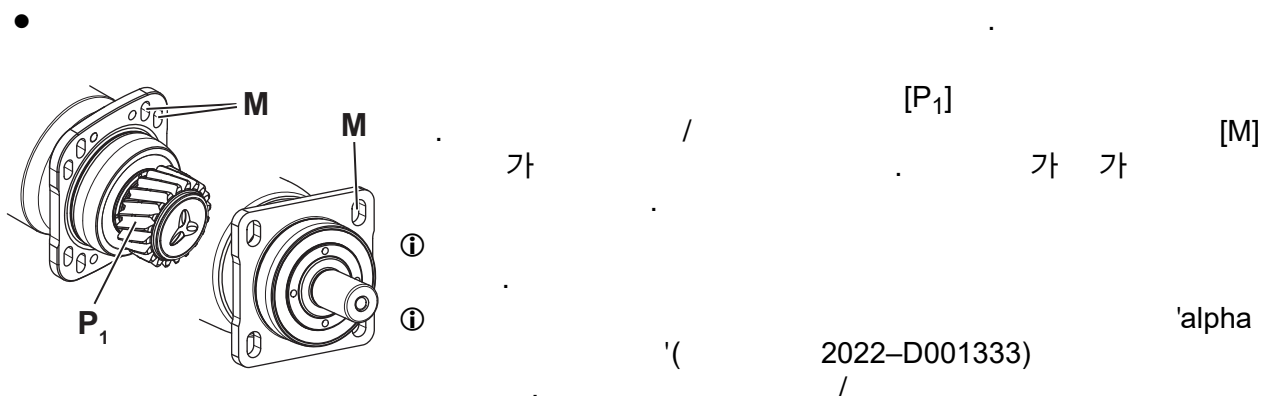
TP⁺/DP⁺/RP⁺

-
- (:Loctite® 243)
- ①
- ①

4.2.1




4.2.2



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•	가



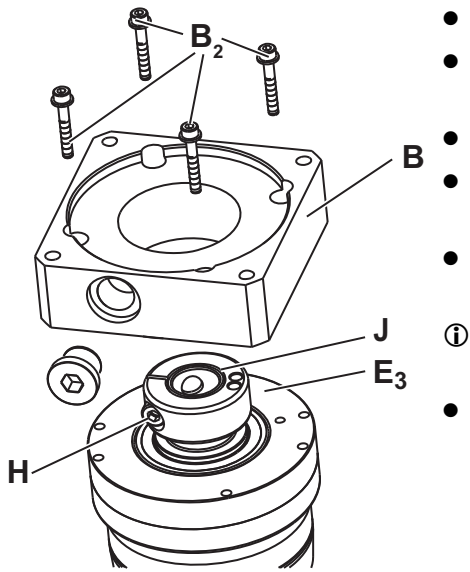
4.3

	참 고
	<ul style="list-style-type: none"> • WITTENSTEIN alpha GmbH

- (DIN 6796) , (DIN EN ISO 4762)

① WITTENSTEIN alpha GmbH

① 5.5 " "



[E₃]
5.3 "

[B₂]
(: Loctite[®] 243)

5.4 "

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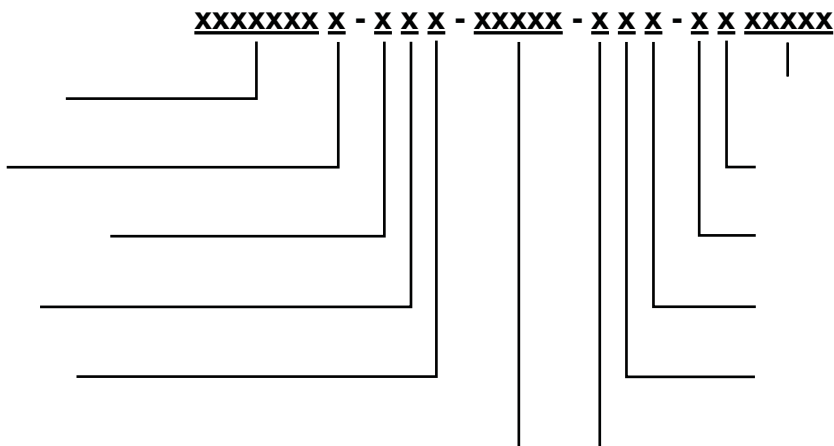
5

5.1

		A	(5.2 " ")
		B	i
		C	()
		D	
		E	
		F	
		G	()

Tbl-1: ()

5.2



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5.3

	CP/CPS	CPK/CPSK	CVH/CVS	DP ⁺	DPK ⁺	HDP ⁺ /HDV
.	"Tbl-5"	x*	x*	"Tbl-3"	x*	x*
	HG⁺	LK⁺/LPK⁺/LPBK⁺	LP⁺/LPB⁺	NPK/NPLK/NPSK/NPRK/NPTK	NP/NPL/NPS/NPR/NPT	NVH/NVS
.	x*	x*	x*	x*	"Tbl-4"	x*
	PKF	RP⁺	RPC⁺/RPK⁺	SC⁺/SPC⁺	SK⁺/SPK⁺	SP⁺
.	x*	"Tbl-3"	x*	x*	x*	"Tbl-3"
	TK⁺/TPK⁺	TP⁺	TPC⁺	VH⁺/VS⁺/VT⁺	XP⁺	XPC⁺/XPK⁺
.	x*	"Tbl-3"	x*	x*	"Tbl-3"	x*
x*:						

Tbl-2:

5.3.1 DP⁺ / HG⁺ / RP⁺ / SP⁺ / TP⁺ / XP⁺

(DIN EN ISO 4762)**, 12.9, x []x[mm]									
		(.)*							
		B	C	E	G / H	I / K	M	N	O
DP ⁺ 004 SP ⁺ 060 TP ⁺ 004 XP ⁺ 010	1	M3x25		M4x20	-	-	-	-	-
	2	M3x16	M3x45	-	-	-	-	-	-
DP ⁺ 010 SP ⁺ 075 TP ⁺ 010 XP ⁺ 020	1	-	M4x30		M5x18	-	-	-	-
	2	M3x16		M4x55	-	-	-	-	-
	3	-	M3x16	-	-	-	-	-	-
DP ⁺ 025 RP ⁺ 030 SP ⁺ 100 TP ⁺ 025 XP ⁺ 030	1	-	-	M5x35		M6x25	-	-	-
	2	-	M4x20		M5x70	-	-	-	-
	3	-	-	M4x20	-	-	-	-	-
DP ⁺ 050 RP ⁺ 040 SP ⁺ 140 TP ⁺ 050 XP ⁺ 040	1	-	-	-	M6x45		M8x30	-	-
	2	-	-	M5x20		M6x90	-	-	-
	3	-	-	-	M5x20	-	-	-	-
RP ⁺ 050 SP ⁺ 180 TP ⁺ 110 XP ⁺ 050	1	-	-	-	-	M8x50			-
	2	-	-	-	M6x25		M8x105	-	-
	3	-	-	-	-	M6x25	-	-	-
RP ⁺ 060 TP ⁺ 300	1	-	-	-	-	-	-	M10x35	-
	2	-	-	-	-	-	M8x30	-	-
	3	-	-	-	-	M6x25	-	-	-
RP ⁺ 080 TP ⁺ 500	1	-	-	-	-	-	-	-	M12x40
	2	-	-	-	-	-	M8x30	-	-
	3	-	-	-	-	M8x105	-	-	-
SP ⁺ 210	1	-	-	-	-	-	-	M10x40	-
	2	-	-	-	-	-	M8x30	-	-
SP ⁺ 240	1	-	-	-	-	-	-	-	M12x45
	2	-	-	-	-	-	M8x30	-	-
* : xxxxxxxx-xxx-xxxxx-x(.)*x-xx (5.1 ")									
** 5.4 " "									

Tbl-3:

(DIN EN ISO 4762) DP⁺ / RP⁺ / SP⁺ / TP⁺ / XP⁺

5.3.2 NP / NPL / NPR / NPS / NPT

(DIN EN ISO 4762)**, 10.9, x []x[mm]									
		(.)*							
		Z	A	B	C	D	E	G / H	I / K
NPx005	1	M3x20		M3x10	-	-	-	-	-
	2	M3x20		M3x10	-	-	-	-	-
NPx015	1	-	M3x20		M4x16			-	-
	2	M3x20		M3x35	-	-	-	-	-
NPx025	1	-	-	-	M4x30		M5x16	-	-
	2	-	M3x20		M4x50		-	-	-
NPx035	1	-	-	-	-	-	M5x30	M6x22	-
	2	-	-	-	M4x30		M5x55	-	-
NPx045	1	-	-	-	-	M8x50		M6x45	-
	2	-	-	-	-	-	M5x30	M6x75	-
* : xxxxxxxx-xxx-xxxxx-x(.)*x-xx (5.1 " ")									
** 5.4 " "									

Tbl-4:

(DIN EN ISO 4762) NP / NPL / NPS / NPR / NPT

5.3.3 CP/CPS

(DIN EN ISO 4762)**, x []x[mm]									
		(.)*							
		B		C	E	G / H	I / K		
		8.8		10.9					
CP005	1	M3x20		-	-	-	-	-	-
	2	M3x20		-	-	-	-	-	-
CPx015	1	-	M3x25		M4x22	-	-	-	-
	2	-	M3x25***		M4x22	-	-	-	-
CPx025	1	-	-		M4x30	M6x25	-	-	-
	2	-	-		M4x30***	M6x25	-	-	-
CPx035	1	-	-		-	M6x45	M6x30	-	-
	2	-	-		-	M6x45***	M6x30	-	-
CP045	1	-	-		-	-	M6x45	-	-
	2	-	-		-	M5x30	M6x75	-	-
* : xxxxxxxx-xxx-xxxxx-x(.)*x-xx (5.1 " ")									
** 5.4 " "									
*** i=32, 64 : ;									

Tbl-5:

(DIN EN ISO 4762) CP / CPS

5.4

- VDI 2230(2003 2)
- $\mu = 0,10$
- 90%
- ISO 6789 A D II

	[Nm]												
/	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
8.8 / 8	1.15	2.64	5.2	9.0	21.5	42.5	73.5	118	180	258	362	495	625
10.9 / 10	1.68	3.88	7.6	13.2	32.0	62.5	108	173	264	368	520	700	890
12.9 / 12	1.97	4.55	9.0	15.4	37.5	73.5	126	202	310	430	605	820	1040

Tbl-6:

5.5

- ① 가

5.6

- 가 : www.wittenstein-alpha.de
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