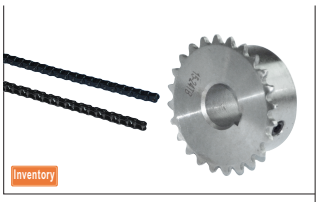
Sprockets

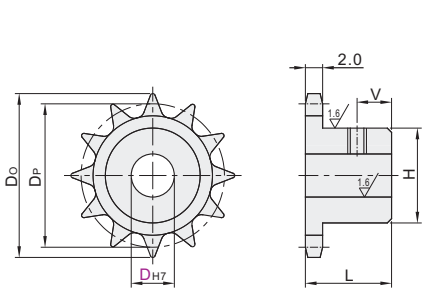
Code	Type	Material	
		GB	Equiv.
VLB01	15 Series	45	S45C

Chains

Code	Type	Pitch(P)	Material
VMB01	15 Series	4.763	Steel

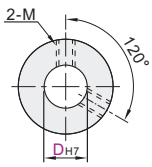


Sprockets
VLB01

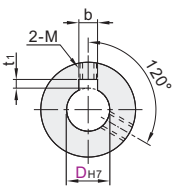


Shaft Bore Specs.

(Round Bore + Tap)
P

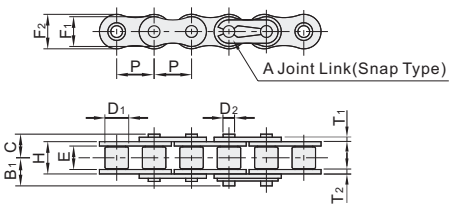


(New JIS Key + Tap)
N



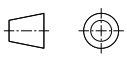
Offset between tooth tip and keyway is ±0.3mm.

Chains
VMB01



Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
5~6	—	3
8		4
10	3×1.4	
12	4×1.8	5
15	5×2.3	6
16		



The first perspective

Sprockets

Part Number		Shaft Bore Dia.	Shaft Bore Specs.	Do	Dp	Hub		V
Code	Number of Teeth	DH7				H	L	
VLB01-15	11	5 6	P (Round Bore + Tap)	19	16.9	11		
	12	5 6 8		20.5	18.4	12	10	4
	13	6 8		22	19.9	14		
	14	8		23.5	21.4	15		
	15	8		25	22.91	17	12	5
	16	10		26.5	24.41	18		
	17	10		28	25.92	20		
	18	10		29.5	27.43	22	14	6
	20	10		32.5	30.44	24		
	24	10 12 15		39	36.49	30		
	26	12 15 16	N (New JIS Key + Tap)	42	39.51	33	16	7
	28	12 15 16		45	42.54	37		
	30	12 15 16		48	45.56	39		
	33	12 15 16		52.5	50.1	40	18	8
	35	12 15 16		55.5	53.13	40		

Chains

Part Number		Joint Link	Interior Height	Roller	Pin			Chain Link				
Code	Number of Links		E	D1	C	B1	D2	T1	T2	H	F1	F2
VMB01-15	4~	A(Snap Type)	2.38	2.48	3.05	3.85	1.62	0.6	0.6	3.58	2.86	4.3

Please order as shown

Sprockets

Part Number		DH7
Code	Number of Teeth	
VLB01-15	11	5 6
	12	5 6 8

VLB01-15 — 11 — D5

Chains

Part Number	
Code	Number of Links
VMB01-15	4

VMB01-15 — 50

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 12

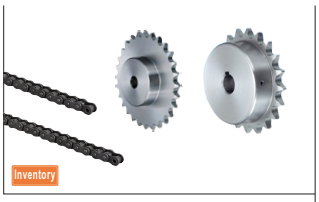
Sprockets

Delivery 8

Chains

Sprockets

Code	Type	Material		Heat Treatment	Surface Treatment
		GB	Equiv.		
VLC01	25 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLC11		0Cr18Ni9	SUS304	—	—

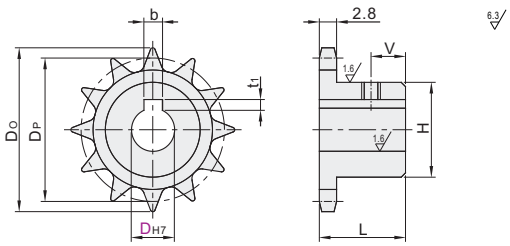


Chains

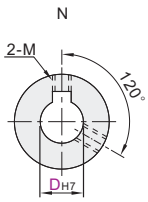
Code	Type	Pitch(P)	Material
VMC01	25 Series	6.35	Steel
VMC11			Stainless Steel

! 25 series sprockets and chains cannot be combined with 04B series sprockets and chains.

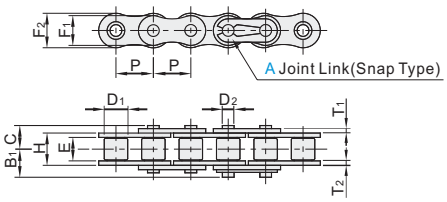
Sprockets
VLC01/11



Shaft Bore Specs.
(New JIS Key + Tap)



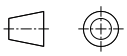
Chains
VMC01/11



! Offset between tooth tip and keyway is ±0.3mm.

Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
10	3×1.4	4
12	4×1.8	5
14~17	5×2.3	6
18~20	6×2.8	6



The first perspective

Sprockets

Part Number		Shaft Bore Dia.	Do	Dp	Hub		V
Code	Number of Teeth	DH7			H	L	
VLC01-25	16	10 12	36	32.55	25	15	6
	17	10 12	38	34.56			
	18	10 12	40	36.57			
	19	10 12	42	38.58	28		
	20	10 12	44	40.59			
	21	10 12	46	42.61			
	22	12 15	48	44.62			
	23	12 15	50	46.63	30		
	24	12 15	52	48.65			
	25	12 15 16	54	50.66			
	26	12 15 16	56	52.68			
	27	12 15 16	58	54.70	35		
	28	12 15 16	60	56.71			
	30	12 15 16	64	60.75			
	32	15 16 18 20	68	64.78	40	20	8
	34	15 16 18 20	72	68.82			
	35	15 16 18 20	74	70.84			
	36	15 16 18 20	76	72.86			
	38	15 16 18 20	80	76.90			
	40	15 16 18 20	84	80.93			
VLC11-25	16	10	36	32.55	21	16	6
	17	10	38	34.56	23		
	18	10	40	36.57	25		
	19	10 12	42	38.58	26		
	20	10 12	44	40.59	28		
	21	12 15	46	42.61	30	18	7
	22	12 15	48	44.62			
	23	12 15	50	46.63			
	24	12 15	52	48.65			
	25	12 15	54	50.66			
	26	12 15	56	52.68			
	27	12 15	58	54.70			
	28	12 15	60	56.71			
	30	12 15	64	60.75			
	32	12 15	68	64.78			

Chains

Part Number		Joint Link	Interior Height	Roller	Pin			Chain Link				
Code	Number of Links		E	D1	C	B1	D2	T1	T2	H	F1	F2
VMC01-25 VMC11-25	4~	A(Snap Type)	3.18	3.30	3.85	4.65	2.31	0.76	0.76	4.80	5.21	6.02

Please order as shown

Sprockets

Part Number		DH7
Code	Number of Teeth	
VLC01-25	16	10 12
	17	10 12

VLC01-25 — 16 — D10

Chains

Part Number	
Code	Number of Links
VMC01-25 VMC11-25	4

VMC01-25 — 50

Discount price

Per	1~9	10~
Price	100%	Additional quotation

Delivery 9
! Sprockets(S45C)

Delivery 12
! Sprockets(SUS304)

Delivery 8
! Chains

Sprockets

Code	Type	Material GB	Material Equiv.	Heat Treatment	Surface Treatment
VLD02	35 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLD11		0Cr18Ni9	SUS304	—	—

Chains

Code	Type	Pitch(P)	Material
VMD01	35 Series	9.525	Steel
VMD21			Stainless Steel

Shaft Bore Machining Dimension Table

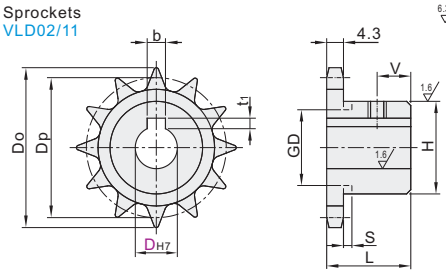
D	Keyway b×t1	M
10	3×1.4	4
12	4×1.8	5
14~17	5×2.3	6
18~22	6×2.8	6
24~30	8×3.3	8
32~38	10×3.3	8

The data with * in the H value, Sprockets have grooves on hub O.D.

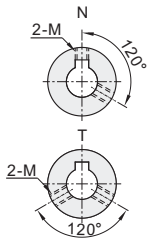
Number of Teeth	S	GD
9		17
10		20
11	4.4	23
12		26
13		29

35 series sprockets and chains cannot be combined with 06B series sprockets and chains.

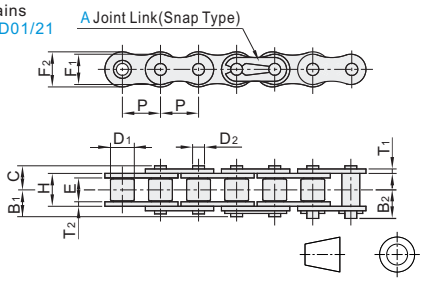
Sprockets VLD02/11



Shaft Bore Specs. (New JIS Key + Tap)



Chains VMD01/21



The first perspective

Offset between tooth tip and keyway is ±0.3mm.

Sprockets

Part Number Code	Number of Teeth	Shaft Bore Dia. DH7	Do	Dp	Hub H	Hub L	V
VLD02-35	9	10	32	27.85	21.5*		
	10	10 12	34	30.82	24.5*		
	11	10 12 (14)	38	33.81	27*		
	12	10 12 14 15 16 17	41	36.8	30.5*		
	13	10 12 14 15 16 17 (18)	44	39.8	32*		
	14	10 12 14 15 16 17 (18) (19) (20)	47	42.81	32		
	15	10 12 14 15 16 17 18 19 20	51	45.81	35		
	16	10 12 14 15 16 17 18 19 20 22 (24) (25)	54	48.82	37	20	6
	17	12 14 15 16 17 18 19 20 22 24 25	57	51.84	41		
	18	12 14 15 16 17 18 19 20 22 24 25	60	54.85	44		
	19	12 14 15 16 17 18 19 20 22 24 25 28	63	57.87	47		
	20	12 14 15 16 17 18 19 20 22 24 25 28 30	66	60.89	50		
	21	12 14 15 16 17 18 19 20 22 24 25 28 30 32	69	63.91	53		
	22	12 14 15 16 17 18 19 20 22 24 25 28 30 32	72	66.93	56		
	23	12 14 15 16 17 18 19 20 22 24 25 28 30 32	75	69.95	60		
	24	12 14 15 16 17 18 19 20 22 24 25 28 30 32	78	72.97			
	25	15 16 17 18 19 20 22 24 25 28 30 32	81	76			
	26	15 16 17 18 19 20 22 24 25 28 30 32	84	79.02			
	27	15 16 17 18 19 20 22 24 25 28 30 32	87	82.05			
	28	15 16 17 18 19 20 22 24 25 28 30 32	90	85.07	53	22	8
	30	15 16 17 18 19 20 22 24 25 28 30 32	96	91.12			
	32	15 16 17 18 19 20 22 24 25 28 30 32	102	97.18			
	34	15 16 17 18 19 20 22 24 25 28 30 32	109	103.23			
	35	15 16 17 18 19 20 22 24 25 28 30 32	112	106.26			
	36	15 16 17 18 19 20 22 24 25 28 30 32	115	109.29			
	38	20 22 24 25 28 30 32 35 38	121	115.34	63	25	10
	40	20 22 24 25 28 30 32 35 38	127	121.4			
VLD11-35	10	10 12	34	30.82	24.5*		
	11	10 12	38	33.81	27*		
	12	10 12 15	41	36.8	30.5*		
	13	10 12 15 16	44	39.8	32*		
	14	10 12 15 16	47	42.81	32		
	15	10 12 15 16	51	45.81	35		
	16	10 12 15 16 18 20	54	48.82	37	20	6
	17	12 15 16 18 20	57	51.84	41		
	18	12 15 16 18 20	60	54.85	44		
	20	12 15 16 18 20	66	60.89	50		
	21	12 15 16 18 20	69	63.91	53		
	22	12 15 16 18 20	72	66.93	56		
	23	12 15 16 18 20	75	69.95	60		
	24	12 15 16 18 20 22 25	78	72.97			
	30	15 16 18 20 22 25	96	91.12	53	22	8
	32	15 16 18 20 22 25	102	97.18			
	40	18 20 22 25 30	127	121.4	63	25	10

The mounting method of specifications corresponding to D size with ( ) is T, and the rest is N.

Chains

Part Number Code	Number of Links	Joint Link	Interior Height E	Roller D1	Pin C	Pin B1	Pin B2	Pin D2	Chain Link T1	Chain Link T2	Chain Link H	Chain Link F1	Chain Link F2
VMD01-35 VMD21-35	4~	A (Snap Type)	4.78	5.08	5.80	6.95	7.60	3.60	1.28	1.28	7.46	7.81	9.05

Please order as shown

Sprockets

Part Number Code	Number of Teeth	DH7
VLD11-35	10	10 12
	11	10 12
	12	10 12

VLD11-35－10－D10

Chains

Part Number Code	Number of Links	Joint Link
VMD01-35 VMD21-35	4~	A

VMD01-35－100－A

Discount price

Per	1~9	10~
Price	100%	Additional quotation

Delivery 9 — Sprockets(S45C)

Delivery 12 — Sprockets(SUS304)

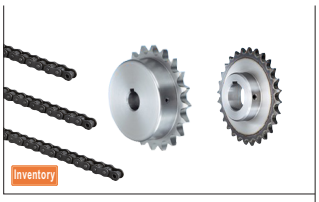
Delivery 8 — Chains

Sprockets

Code	Type	Material		Heat Treatment	Surface Treatment
		GB	Equiv.		
VLF02	40 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLF11		0Cr18Ni9	SUS304	—	—

The data with * in the H value, Sprockets have grooves on hub O.D.

Number of Teeth	S	GD
9	5.2	23
10		27
11		35
12		35

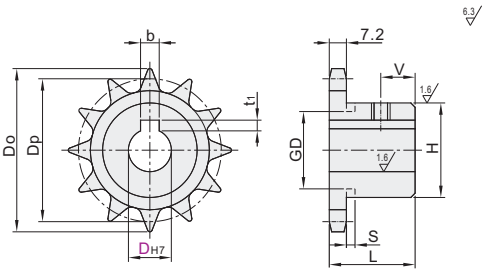


Chains

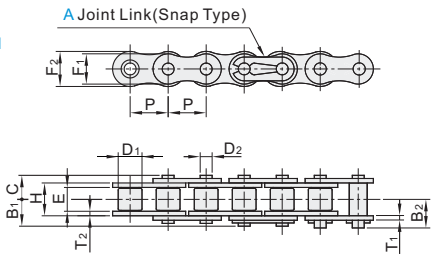
Code	Type		Pitch(P)	Material
VMF01	40 Series	Standard	12.7	Steel
VMF21				Stainless Steel
VMF03		Lubrication-Free		Steel (Oil Contained Bushings)

! 40 series sprockets and chains cannot be combined with 08B series sprockets and chains.

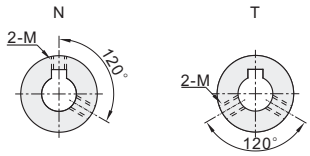
Sprockets
VLF02/11



Chains
VMF01/03/21



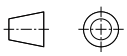
Shaft Bore Specs.
(New JIS Key + Tap)



! Offset between tooth tip and keyway is ±0.3mm.

Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
10	3×1.4	4
12	4×1.8	5
14~17	5×2.3	6
18~22	6×2.8	6
24~30	8×3.3	8
32~38	10×3.3	8
40~42	12×3.3	8
45	14×3.8	10


The first perspective

Sprockets

Code	Number of Teeth	Shaft Bore Dia. DH7	Do	Dp	Hub H	Hub L	V
VLF02-40	10	12 15 16	46	41.1	32*		
	11	15 16 18 20	51	45.08	36*		5
	12	15 16 18 20	55	49.07	40*		
	13	15 16 18 20	59	53.07	37		
	14	15 16 17 18 19 20 22 24 25	63	57.07	42	22	
	15	15 16 17 18 19 20 22 24 25 28	67	61.08	46		
	16	15 16 18 19 20 22 24 25 28 30	71	65.1	50		6
	17	15 16 18 19 20 22 24 25 28 30	76	69.12	54		
	18	15 16 18 19 20 22 24 25 28 30	80	73.14	57		
	19	15 16 18 19 20 22 24 25 28 30	84	77.16	62		
	20	15 16 18 19 20 22 24 25 28 30	88	81.18	67		
	21	18 20 22 24 25 28 30	92	85.21	71		
	22	18 20 22 24 25 28 30	96	89.24	75		
	23	18 20 22 24 25 28 30	100	93.27	77		
	24	18 20 22 24 25 28 30	104	97.3		25	7
	25	18 20 22 24 25 28 30	108	101.33			
	26	20 22 25 28 30	112	105.36	63		
	28	20 22 25 28 30	120	113.43			
	30	20 22 25 28 30	128	121.5			
	32	20 22 25 28 30	137	129.57			
	35	20 22 25 28 30	149	141.68	68	28	10
	36	20 22 25 28 30	153	145.72			
	40	20 22 25 28 30	169	161.87			

! VLF02 mounting method is N.

Sprockets

Part Number		Shaft Bore Dia.	Do	Dp	Hub		V
Code	Number of Teeth	DH7			H	L	
VLF11-40	9	10 12 14 (15)	42	37.13	28*		
	10	10 12 14 15 16 17 (18)	46	41.1	32*		5
	11	10 12 14 15 16 17 18 19 20	51	45.08	36*		
	12	10 12 14 15 16 17 18 19 20 22	55	49.07	40*		
	13	12 14 15 16 17 18 19 20 22 (24) (25)	59	53.07	37		
	14	12 14 15 16 17 18 19 20 22 24 25 (28)	63	57.07	42	22	
	15	12 14 15 16 17 18 19 20 22 24 25 28 30	67	61.08	46		
	16	14 15 16 17 18 19 20 22 24 25 28 30 32	71	65.1	50		6
	17	14 15 16 17 18 19 20 22 24 25 28 30 32 35	76	69.12	54		
	18	14 15 16 17 18 19 20 22 24 25 28 30 32 35 (40)	80	73.14	57		
	19	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40	84	77.16	62		
	20	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 (45)	88	81.18	67		
	21	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	92	85.21	71		
	22	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	96	89.24	75		
	23	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	100	93.27	77		
	24	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42	104	97.3			
	25	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42	108	101.33		25	7
	26	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42	112	105.36			
	27	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42	116	109.4	63		
	28	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42	120	113.43			
	29	25	124	117.46			
	30	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42	128	121.5			
	32	20 22 24 25 28 30 32 35 40	137	129.57			
	34	20 22 24 25 28 30 32 35 40	145	137.64			
	35	20 22 24 25 28 30 32 35 40	149	141.68	68	28	10
	36	20 22 24 25 28 30 32 35 40	153	145.72			
	38	24 25 28 30 32 35 40	161	153.79			
	40	25 28 30 32 35 40	169	161.87			

The mounting method of specifications corresponding to D size with ( ) is T, and the rest is N.

Chains

Part Number		Joint Link	Interior Height	Roller	Pin				Chain Link				
Code	Number of Links		E	D_1	C	B_1	B_2	D_2	T_1	T_2	H	F_1	F_2
VMF01-40 VMF21-40	4~	A (Snap Type)	7.92	7.92	8.13	10.23	10.23	3.98	1.49	1.49	11.17	10.41	12.07
VMF03-40			7.85						1.5	2	11.85		

Please order as shown

Sprockets

Part Number		Shaft Bore Dia.	Do
Code	Number of Teeth	DH7	
VLF11-40	9	10 12 14 15	42
	10	10 12 14 15 16 17 18	46
	11	10 12 14 15 16 17 18 19 20	51

VLF11-40 — 9 — D10

Chains

Part Number		Joint Link	E
Code	Number of Links		
VMF01-40 VMF21-40	4~	A	7.92

VMF01-40 — 10 — A

Discount price

Per	1~9	10~
Price	100%	Additional quotation

Chains (Lubrication-Free)

Discount price

Per	1~9	10~
Price	100%	Additional quotation

The Remaining

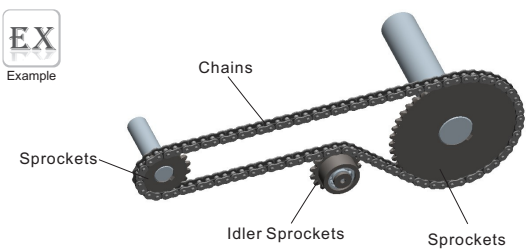
Delivery 9 — Sprockets(S45C)

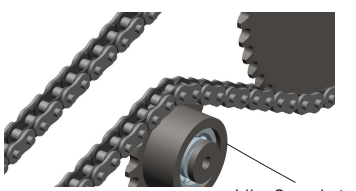
Delivery 12 — Sprockets(SUS304)

Delivery 8 — Chains(Standard)

Delivery 12 — Chains(Lubrication-free)

EX Example





Sprockets

Code	Type	Material		Heat Treatment	Surface Treatment
		GB	Equiv.		
VLG02	50 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLG11		0Cr18Ni9	SUS304	—	—

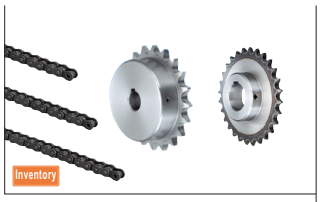
Chains

Code	Type		Pitch(P)	Material
VMG01	50 Series	Standard	15.875	Steel
VMG02				Stainless Steel
VMG03		Lubrication-Free		Steel (Oil Contained Bushings)
VMG21		Heavy Load		Steel

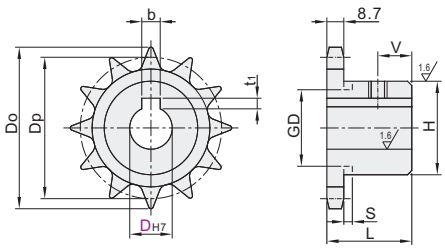
! 50 series sprockets and chains cannot be combined with 10B series sprockets and chains.

The data with * in the H value, Sprockets have grooves on hub O.D.

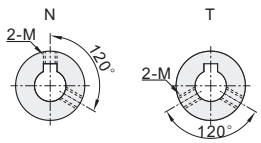
Number of Teeth	S	GD
9	6.4	29
10		34
11		39
12		44
13		49



Sprockets
VLG02/11

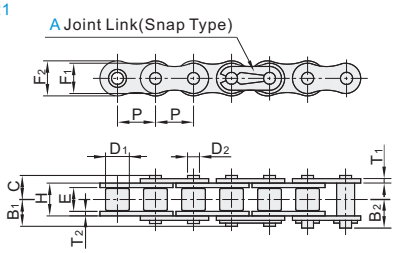


Shaft Bore Specs.
(New JIS Key + Tap)



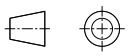
! Offset between tooth tip and keyway is ±0.3mm.

Chains
VMG01/02/03/21



Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
14~17	5×2.3	6
18~22	6×2.8	6
24~30	8×3.3	8
32~38	10×3.3	8
40~42	12×3.3	8
45~50	14×3.8	10


The first perspective

Sprockets

Part Number		Shaft Bore Dia.	Do	Dp	Hub		V
Code	Number of Teeth	DH7			H	L	
VLG02-50	9	16 17 18 19	53	46.42	34*		
	10	15 16 17 18 19 20 22 (24) (25)	58	51.37	40*		
	11	15 16 17 18 19 20 22 24 25	64	56.35	45.5*		5
	12	15 16 17 18 19 20 22 24 25 28 30 32	69	61.34	50*	25	
	13	14 15 16 17 18 19 20 22 24 25 28 30 32	74	66.34	51*		
	14	14 15 16 17 18 19 20 22 24 25 28 30 32 35	79	71.34	52		
	15	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38	84	76.35	57		7
	16	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40	89	81.37	62		
	17	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 (45)	94	86.39	67		
	18	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	100	91.42	72		
	19	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	105	96.45			
	20	14 15 16 17 18 19 20 22 24 25 28 30 32 35 38 40 42 45 50	110	101.48			
	21	17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	115	106.51			
	22	17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	120	111.55			
	23	17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	125	116.58			
	24	17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	130	121.62			
	25	17 18 19 20 22 24 25 28 30 32 35 38 40 42 45	135	126.66			
	26	24 25 28 30 32 35 38 40 45	140	131.70	73	28	8
	27	24 25 28 30 32 35 38 40 45	145	136.74			
	28	24 25 28 30 32 35 38 40 42 45	150	141.79			
	29	24 30	155	146.83			
	30	22 25 28 30 32 35 38 40 45	161	151.87			
	32	25 28 30 32 35 38 40 45	171	161.96			
	33	35	176	167.01			
	34	25 28 30 32 35 38 40 45	181	172.05			
	35	25 28 30 32 35 38 40 45	186	177.1			

! The mounting method of specifications corresponding to D size with ( ) is T, and the rest is N.

Sprockets

Part Number		Shaft Bore Dia.	Do	Dp	Hub		V
Code	Number of Teeth	D_{H7}			H	L	
VLG11-50	10	20 22	58	51.37	40*	25	5
	11	20 22 24 25	64	56.35	45.5*		
	12	20 22 24 25	69	61.34	50*		
	13	20 22 24 25	74	66.34	51*		
	14	20 22 24 25 28 30	79	71.34	52		7
	15	20 22 24 25 28 30 32	84	76.35	57		
	16	20 22 24 25 28 30 32 38	89	81.37	62		
	17	20 22 24 25 28 30 32 35 38	94	86.39	67		
	18	20 22 24 25 28 30 32 35 38 40	100	91.42	72	28	8
	19	20 22 24 25 28 30 32 35 38 40	105	96.45	73		
	20	20 22 24 25 28 30 32 35 38 40	110	101.48			
	21	20 25 30 35 40	115	106.51			
	22	20 25 30 35 40	120	111.55			
	23	20 25 30 35	125	116.58			
	24	20 25 30 35	130	121.62			
	25	20 25 30 35 40	135	126.66			
	26	20 25 30 35	140	131.7			
	28	20 25 30 35 40	150	141.79			
	30	20 25 30 35 40	161	151.87			
	32	25 30 35	171	161.96			
	35	25 30 35	186	177.1			

VLG11 mounting method is N.

Chains

Part Number			Joint Link	Interior Height	Roller	Pin				Chain Link				
	Code	Number of Links		E	D_1	C	B_1	B_2	D_2	T_1	T_2	H	F_1	F_2
Standard	VMG01-50 VMG02-50	4~	A (Snap Type)	9.52	10.16	10.03	12.28	12.28	5.09	2.01	2.01	13.84	13.02	15.08
Lubrication-Free	VMG03-50			9.4		10.93	11.93	13.23		2	2.35	14.1		
Heavy Load	VMG21-50			9.52						2.38	2.38	14.50		

Please order as shown

Sprockets

Part Number		Shaft Bore Dia.
Code	Number of Teeth	D_{H7}
VLG02-50	9	16 17 18 19
	10	15 16 17 18 19 20 22 24 25
	11	15 16 17 18 19 20 22 24 25

VLG02-50 — 9 — D16

Chains

Part Number		Joint Link	E
Code	Number of Links		
VMG01-50	4~	A	9.52
VMG03-50			9.4

VMG01-50 — 10 — A

Discount price

Per	1~5	6~
Price	100%	Additional quotation

Chains (Lubrication-free)

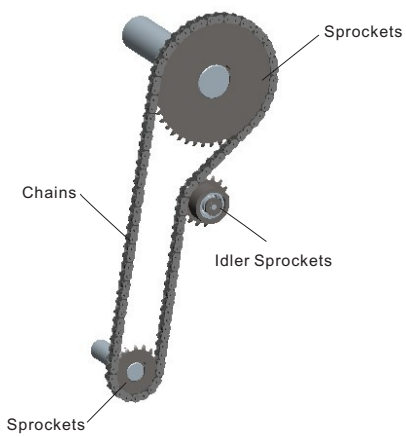
Discount price

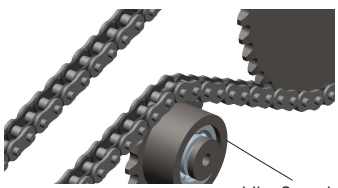
Per	1~9	10~
Price	100%	Additional quotation

The Remaining

Delivery	Delivery	Delivery	Delivery
9	12	12	10
Sprockets(S45C)	Sprockets(SUS304)	Chains(Lubrication-Free)	Chains(The Remaining)

Example





Sprockets

Code	Type	Material GB	Material Equiv.	Heat Treatment	Surface Treatment
VLK02	60 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLK11		0Cr18Ni9	SUS304	—	—

Chains

Code	Type		Pitch(P)	Material
VMK01	60 Series	Standard	19.05	Steel
VMK02				Stainless Steel
VMK03		Lubrication-Free		Steel (Oil Contained Bushings)
VMK21		Heavy Load		Steel

60 series sprockets and chains cannot be combined with 12B series sprockets and chains.

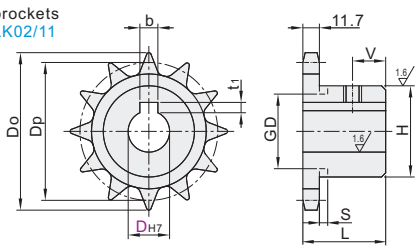
Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
18~22	6×2.8	6
24~30	8×3.3	8
32~38	10×3.3	8
40~42	12×3.3	8
45~50	14×3.8	10
55	16×4.3	12

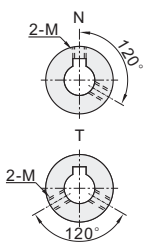
The data with * in the H value, Sprockets have grooves on hub O.D.

Number of Teeth	S	GD
9	8	32
10		37
11		45

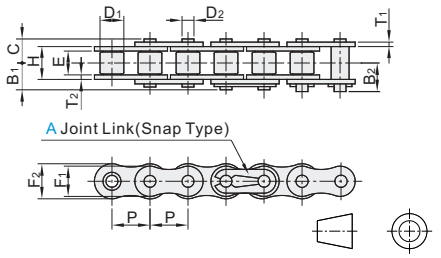
Sprockets
VLK02/11



Shaft Bore Specs.
(New JIS Key + Tap)



Chains
VMK01/02/03/21



The first perspective

Offset between tooth tip and keyway is ±0.3mm.

Sprockets

Part Number Code	Number of Teeth	Shaft Bore Dia. DH7	Do	Dp	Hub H	Hub L	V
VLK02-60	9	19 20 22 (24)	63	55.7	43*		
	10	19 20 22 24 25 (28) (30)	68	61.65	49*		6
	11	19 20 22 24 25 28 30 (32)	76	67.62	51*		
	12	19 20 22 24 25 28 30 32 35	83	73.6	51		
	13	19 20 22 24 25 28 30 32 35 38 (40)	89	79.6	57	32	
	14	19 20 22 24 25 28 30 32 35 38 40	95	85.61	62		8
	15	18 19 20 22 24 25 28 30 32 35 38 40 42 45	101	91.62	68		
	16	19 20 22 24 25 28 30 32 35 38 40 42 45 48 50	107	97.65	73		
	17	19 20 22 24 25 28 30 32 35 38 40 42 45 48 50	113	103.67	73		
	18	19 20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	119	109.71			
	19	19 20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	126	115.74			
	20	19 20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	132	121.78			
	21	20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	138	127.82			
	22	20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	144	133.86	83	40	12
	23	20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	150	139.9			
	24	20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	156	145.95			
	25	20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	162	151.99			
	26	20 22 24 25 28 30 32 35 38 40 42 45 48 50 55	168	158.04			
	27	22 24 25 28 30 32 35 38 40 42 45 48 50	174	164.09			
	28	22 24 25 28 30 32 35 38 40 42 45 48 50	180	170.14			
	30	22 24 25 28 30 32 35 38 40 42 45 48 50	193	182.25			
VLK11-60	10	20 22 25	68	61.65	49*		6
	11	20 22 25	76	67.62	51*		
	12	20 22 25	83	73.6	51		
	13	20 22 25 28	89	79.6	57	32	
	14	20 22 25 28	95	85.61	62		8
	15	20 22 25 28 30 32 35 38	101	91.62	68		
	16	25 28 30 32 35 38	107	97.65	73		
	17	25 28 30 32 35 38	113	103.67			
	18	25 28 30 32 35 38 40	119	109.71			
	19	25 28 30 32 35 38 40	126	115.74			
	20	25 28 30 32 35 38 40	132	121.78			
	21	30 35 40	138	127.82			
	22	30 35 40	144	133.86	83	40	12
	23	30 35 40	150	139.9			
	24	30 35 40	156	145.95			
	25	30 35 40	162	151.99			
	30	30 35 40	193	182.25			

The mounting method of specifications corresponding to D size with ( ) is T, and the rest is N.

Chains

Part Number Code	Number of Links	Joint Link	Interior Height E	Roller D1	Pin C	Pin B1	Pin B2	Pin D2	Chain Link T1	Chain Link T2	Chain Link H	Chain Link F1	Chain Link F2
Standard VMK01-60 VMK02-60	4~	A (Snap Type)	12.70	11.91	12.58	15.13	15.13	5.94	2.38	2.38	17.75	15.62	18.1
Lubrication-Free VMK03-60			12.57		14.25	15.55	16.75		2.4	3.2	18.97		
Heavy Load VMK21-60			12.70						3.18	3.18	19.43		

Please order as shown

Sprockets

Part Number Code	Number of Teeth	Shaft Bore Dia. DH7	Do
VLK02-60	9	19 20 22 24	63
	10	19 20 22 24 25 28 30	68

VLK02-60 — 9 — D19

Chains

Part Number Code	Number of Links	Joint Link.
VMK01-60 VMK02-60	4~	A

VMK01-60 — 50 — A

Discount price

Per	1~5	6~
Price	100%	Additional quotation

Chains(Lubrication-Free)

Discount price

Per	1~9	10~
Price	100%	Additional quotation

The Remaining

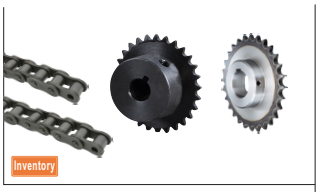
Delivery	Delivery	Delivery	Delivery
9	12	12	10
Sprockets(S45C)	Sprockets(SUS304)	Chains(Lubrication-Free)	Chains(The Remaining)

Sprockets

Code	Type	Material		Heat Treatment	Surface Treatment
		GB	Equiv.		
VLL02	80 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLL11		0Cr18Ni9	SUS304	—	—

The data with * in the H value, Sprockets have grooves on hub O.D.

Number of Teeth	S	GD
9	10.4	44

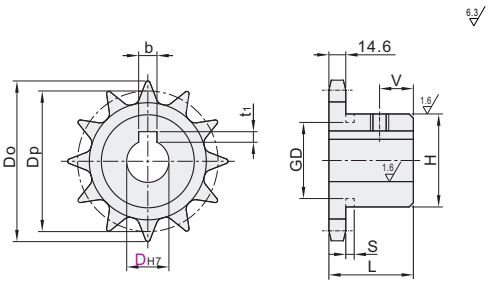


Chains

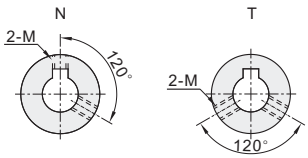
Code	Type		Pitch(P)	Material
VML01	80 Series	Standard	25.4	Steel
VML02				Stainless Steel
VML21		Heavy Load		Steel

! 80 series sprockets and chains cannot be combined with 16B series sprockets and chains.

Sprockets
VLL02/11

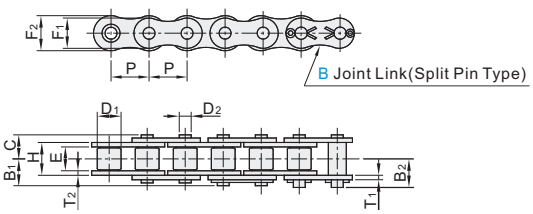


Shaft Bore Specs.
(New JIS Key + Tap)



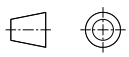
! Offset between tooth tip and keyway is ±0.3mm.

Chains
VML01/02/21



Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
24~30	8×3.3	8
32~38	10×3.3	8
40~42	12×3.3	8
45~50	14×3.8	10
55	16×4.3	12
60	18×4.4	12



The first perspective

Sprockets

Part Number		Shaft Bore Dia.	Do	Dp	Hub		V
Code	Number of Teeth	DH7			H	L	
VLL02-80	9	25 28 30 32 35	85	74.27	58*	40	12
	10	25 28 30 32	93	82.19	52		
	11	25 28 30 32 35 38	102	90.16	60		
	12	25 28 30 32 35 38 40 42 (45)	110	98.14	67		
	13	25 28 30 32 35 38 40 42 45 48 50	118	106.14	77		
	14	25 28 30 32 35 38 40 42 45 48 50	127	114.15			
	15	25 28 30 32 35 38 40 42 45 48 50 55 60	135	122.17			
	16	25 28 30 32 35 38 40 42 45 48 50 55 60	143	130.2			
	17	25 28 30 32 35 38 40 42 45 48 50 55 60	151	138.23			
	18	25 28 30 32 35 38 40 42 45 48 50 55 60	159	146.27	93		
	19	25 28 30 32 35 38 40 42 45 48 50 55 60	167	154.32			
	20	25 28 30 32 35 38 40 42 45 48 50 55 60	176	162.37			
	21	25 28 30 32 35 38 40 42 45 48 50 55 60	184	170.42			
VLL11-80	10	25 30	93	82.19	52	40	12
	12	25 30	110	98.14	67		
	13	25 30	118	106.14	77		
	14	25 30	127	114.15			
	15	25 30	135	122.17			
	16	30 35	143	130.2	93		
	20	35 40	176	162.37			

! The mounting method of specifications corresponding to D size with ( ) is T, and the rest is N.

Chains

Part Number		Joint Link	Interior Height	Roller	Pin				Chain Link				
Code	Number of Links		E	D1	C	B1	B2	D2	T1	T2	H	F1	F2
Standard VML01-80 VML02-80	4~	B (Split Pin Type)	15.88	15.88	16.30	18.30	20.20	7.94	3.18	3.18	22.60	20.83	24.13
Heavy load VML21-80					17.95	19.95	22.35	7.94	3.99	3.99	24.28		

Please order as shown

Sprockets

Part Number		Shaft Bore Dia.	Do
Code	Number of Teeth	DH7	
VLL02-80	9	25 28 30 32 35	85
	10	25 28 30 32	93

VLL02-80 — 9 — D25

Chains

Part Number		Joint Link	E
Code	Number of Links		
VML01-80 VML02-80	4~	B	15.88

VML01-80 — 100 — B

Discount price

Per	1~9	10~
Price	100%	Additional quotation

Delivery 9
! Sprockets(S45C)

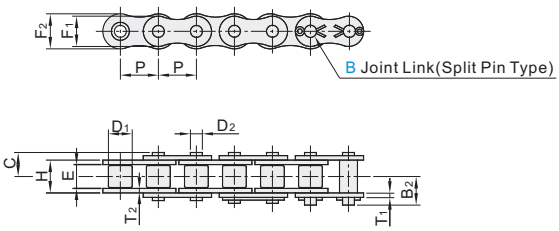
Delivery 12
! Sprockets(SUS304)

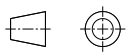
Delivery 10
! Chains

Chains

Code	Type		Pitch(P)	Material
VMN01	100 Series	Standard	31.75	Steel
VMN21		Heavy Load		

100 series sprockets chains cannot be combined with 20B series sprockets and chains .




The first perspective

Part Number			Joint Link	Interior Height	Roller	Pin			Chain Link				
Code		Number of Links		E	D_1	C	B_2	D_2	T_1	T_2	H	F_1	F_2
Standard	VMN01-100	4~	B (Split Pin Type)	19.05	19.05	19.95	22.95	9.54	3.99	3.99	27.45	26.04	30.16
Heavy Load	VMN21-100					21.35	25.35	9.54	4.80	4.80	29.10		

Please order as shown

Part Number		Joint Link	E
Code	Number of Links		
VMN01-100	4~	B	19.05

VMN01-100 — 50

Discount price

Per	1~9	10~
Price	100%	Additional quotation

Delivery 10

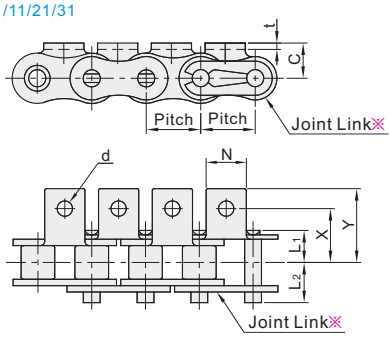
Small Conveyor Chains,with Attachments

◀ Attachment on One Side Type • Single Hole
◀ Attachment on Both Sides Type • Single Hole

Code	Type	Series	ISO Chain Number	Pitch(P)	Attachment	Material
VMQ01	Attachment on One Side Type	40 Series	08A	12.7	Attachment on All Links	Steel
VMQ02					Attachment on Every Two Links	
VMQ04					Attachment on Every Four Links	
VMQ11		50 Series	10A	15.875	Attachment on All Links	
VMQ12					Attachment on Every Two Links	
VMQ14					Attachment on Every Four Links	
VMQ21		60 Series	12A	19.05	Attachment on All Links	
VMQ22					Attachment on Every Two Links	
VMQ24					Attachment on Every Four Links	
VMQ31		80 Series	16A	25.4	Attachment on All Links	
VMQ32					Attachment on Every Two Links	
VMQ34					Attachment on Every Four Links	
VMQ51	Attachment on Both Sides Type	40 Series	08A	12.7	Attachment on All Links	
VMQ52					Attachment on Every Two Links	
VMQ54					Attachment on Every Four Links	
VMQ61		50 Series	10A	15.875	Attachment on All Links	
VMQ62					Attachment on Every Two Links	
VMQ64					Attachment on Every Four Links	
VMQ71		60 Series	12A	19.05	Attachment on All Links	
VMQ72					Attachment on Every Two Links	
VMQ74					Attachment on Every Four Links	
VMQ81		80 Series	16A	25.4	Attachment on All Links	
VMQ82					Attachment on Every Two Links	
VMQ84					Attachment on Every Four Links	

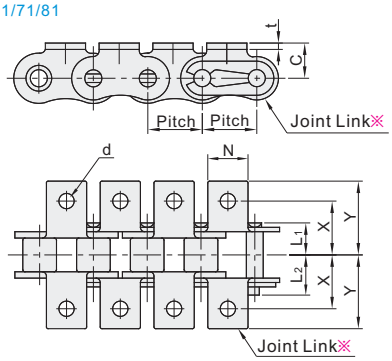
Attachment on One Side Type

Attachment on All Links
VMQ01/11/21/31

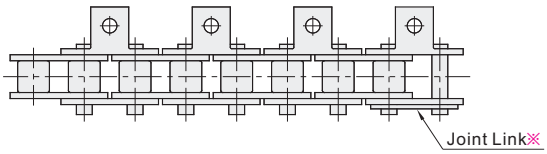


Attachment on Both Sides Type

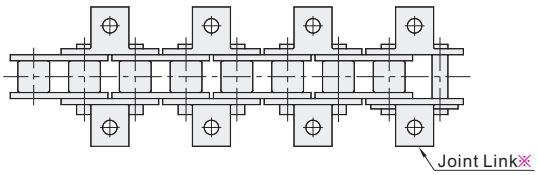
Attachment on All Links
VMQ51/61/71/81



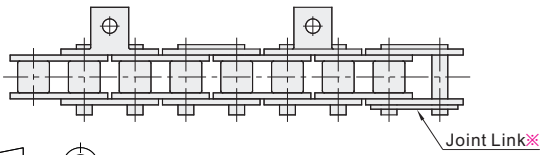
Attachment on Every Two Links
VMQ02/12/22/32



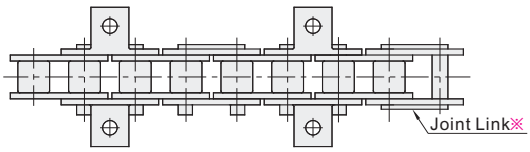
Attachment on Every Two Links
VMQ52/62/72/82

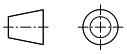


Attachment on Every Four Links
VMQ04/14/24/34



Attachment on Every Four Links
VMQ54/64/74/84





The first perspective

※ The last link is the Joint Link.

Part Number							Number of Links	Pins		Plate	Attachment					Max. Allowable Tension kN (kgf)
Code						No.		L_1	L_2	t	C	X	Y	N	d	
40 Series	VMQ01	VMQ02	VMQ04	VMQ51	VMQ52	VMQ54	40	4~	8.07	9.48	1.5	7.9	12.7	17.4	9.5	3.6	2.75(280)
50 Series	VMQ11	VMQ12	VMQ14	VMQ61	VMQ62	VMQ64	50		10.17	11.63	2	10.3	15.9	22.3	12.7	5.2	4.41(450)
60 Series	VMQ21	VMQ22	VMQ24	VMQ71	VMQ72	VMQ74	60		12.7	14.2	2.4	11.9	19.05	27.2	15.9	5.2	6.28(640)
80 Series	VMQ31	VMQ32	VMQ34	VMQ81	VMQ82	VMQ84	80		16.15	19.25	3.2	15.9	25.4	35.2	19.1	6.8	10.69(1090)

Please order as shown

Part Number		Number of Links
Code	No.	
VMQ01	40	4~
VMQ11	50	
VMQ21	60	

VMQ01 — 40 — 50

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 8
VMQ04/14/24/34
VMQ54/64/74/84

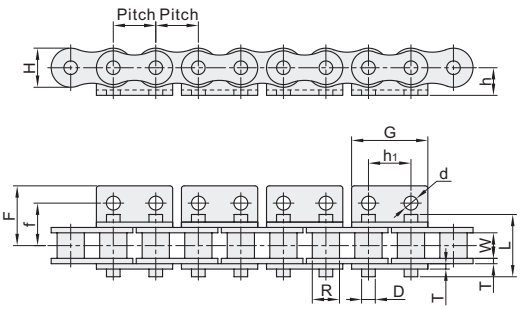
Delivery 10
The Remaining

Small Conveyor Chains,with Attachments

Code	Type	Series	ISO Chain Number	Pitch(P)	Attachment	Material
VMR02	Attachment on One Side Type	40 Series	08A	12.7	Attachment on Every Two Links	Steel
VMR04					Attachment on Every Four Links	
VMR12		50 Series	10A	15.875	Attachment on Every Two Links	
VMR14					Attachment on Every Four Links	
VMR22		60 Series	12A	19.05	Attachment on Every Two Links	
VMR24					Attachment on Every Four Links	
VMR32		80 Series	16A	25.4	Attachment on Every Two Links	
VMR34					Attachment on Every Four Links	
VMR52	Attachment on Both Sides Type	40 Series	08A	12.7	Attachment on Every Two Links	
VMR54					Attachment on Every Four Links	
VMR62		50 Series	10A	15.875	Attachment on Every Two Links	
VMR64					Attachment on Every Four Links	
VMR72		60 Series	12A	19.05	Attachment on Every Two Links	
VMR74					Attachment on Every Four Links	
VMR82		80 Series	16A	25.4	Attachment on Every Two Links	
VMR84					Attachment on Every Four Links	

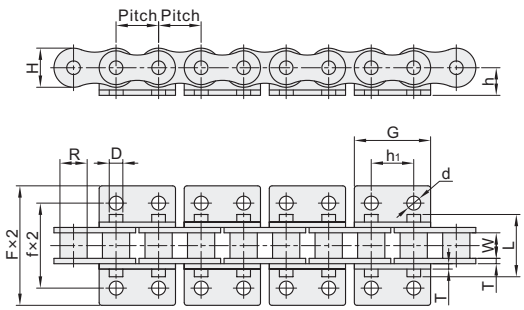
Attachment on One Side Type

Attachment on Every Two Links
VMR02/12/22/32

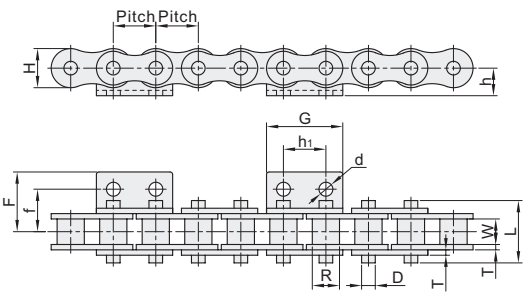


Attachment on Both Sides Type

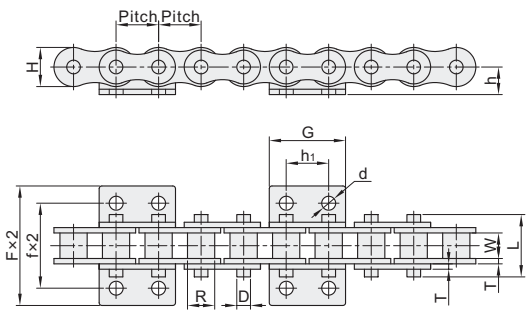
Attachment on Every Two Links
VMR52/62/72/82

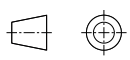


Attachment on Every Four Links
VMR04/14/24/34



Attachment on Every Four Links
VMR54/64/74/84





The first perspective

Part Number Code	No.	Number of Links	Interior Height W	Roller R	Pins D	Pins L	Chain Link T	Chain Link H	Attachment d	Attachment h	Attachment f	Attachment F	Attachment G	Attachment h_1	Average Tensile Strength (KN)
40 Series VMR02 VMR04 VMR52 VMR54	40	4~	7.85	7.92	3.98	17.8	1.5	12.07	3.4	8.5	12.7	17.5	22.9	12.7	19.11
50 Series VMR12 VMR14 VMR62 VMR64	50		9.4	10.16	5.09	21.8	2	15.09	5.2	10.5	15.88	22.6	30.6	15.88	29.4
60 Series VMR22 VMR24 VMR72 VMR74	60		12.57	11.91	5.96	26.9	2.35	18.1		12.2	19.05	27	36	19.05	40.18
80 Series VMR32 VMR34 VMR82 VMR84	80		15.75	15.88	7.94	33.5	3.2	24.13	6.8	16.18	25.4	34.8	46	25.4	73.5

Please order as shown

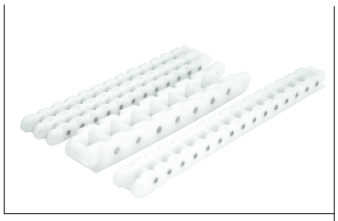
Part Number Code	No.	Number of Links
VMR02	40	4~
VMR12	50	
VMR22	60	

VMR02 — 40 — 50

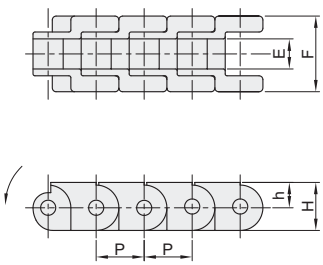
Discount price

Per	1~4	5~
Price	100%	Additional quotation

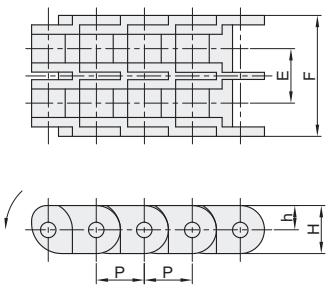
Code	Type	Material		Color	Operating Temp. (°C)
		Plate	Pins		
VMS01	40 Series/60 Series	POM	Stainless Steel 201	White	-5～65℃

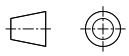


Number of Rows: 1-Row



Number of Rows: 2-Rows





The first perspective

Chains only bend in the arrow direction but not in the opposite direction.

Part Number		Number of Links	Number of Rows	(P) Pitch	H	h	F	E	Allowable Tension (N)	Number of Links per Unit *
Code	Series									
VMS01	40	4～	1 Row	12.7	12.7	6.7	20	7.95	440	240 (Circumference Length 3,048mm)
	40W		2 Rows			6.4	32	14.25		
	60		1 Row	19.05	17.2	8.8	30	12.7	900	160(Circumference Length 3,048mm)

* When the ordered number of links exceeds the given number of links per unit, the qty. of links per unit and the extra qty. of links are packaged separately.
Ex.: For VMS01-40-300, 2 separate packages: 240 links × 1 unit + 60 links.

Please order as shown

Part Number		Number of Links
Code	Series	
VMS01	40	4～
	40W	

VMS01－40－300

Discount price

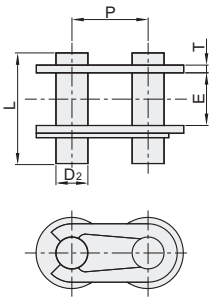
Per	1～10	11～
Price	100%	Additional quotation

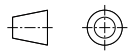
Delivery 12

Joint Links

Code	Type	Material
VMV01	Standard	Steel
VMV02		Stainless Steel
VMV11	Heavy Load	Steel
VMV21	Lubrication-Free	Steel (Oil Contained Bushing)

Inventory



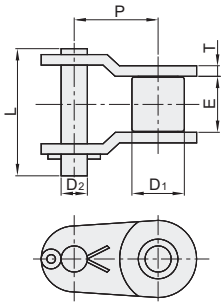


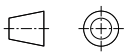
The first perspective

Off-Set Links

Code	Type	Material
VMV31	Standard	Steel
VMV32		Stainless Steel
VMV41	Heavy Load	Steel
VMV51	Lubrication-Free	Steel (Oil Contained Bushing)

Inventory





The first perspective

Code	Applicable Series	ISO Chain Number	Pitch (P)	Interior Height E	Plate Thickness T	Pins Length L≤	Pins O.D. D2
VMV01 VMV02	25	04C	6.35	5.3	0.75	8.8	2.31
	35	06C	9.525	8.3	1.15	13.4	3.6
	40	08A	12.7	13.3	1.5	21	3.98
	50	10A	15.875	15.6	2	25	5.09
	60	12A	19.05	20.6	2.35	31	5.96
	80	16A	25.4	26.4	3.2	38	7.94
	100	20A	31.75	39.2	4	47	9.54
VMV11 VMV21	40	08A	12.7	13.3	2	21	3.98
	50	10A	15.875	15.6	2.35	25	5.09
	60	12A	19.05	20.6	3.2	34.8	5.96
VMV11	80	16A	25.4	27.1	3.2	38	7.94
	100	20A	31.75	38.5	4	47	9.54

! VMV02 not applicable to 100 series.

Please order as shown

Code	Applicable Series	Pitch(P)
VMV01	25	6.35
VMV02	35	9.525

VMV01 — 25

Discount price

Per	1~49	50~
Price	100%	Additional quotation

Delivery 12
! VMV11-80/100
! VMV21

Delivery 10
! The Remaining

Code	Applicable Series	ISO Chain Number	Pitch (P)	Interior Height E	Plate Thickness T	Pins Length L≤	Roller O.D. D1	Pins O.D. D2
VMV31 VMV32	25	04C	6.35	5.6	0.75	8.8	3.3	2.31
	35	06C	9.525	7.7	1.15	13.4	5.08	3.6
	40	08A	12.7	14.2	1.5	21	7.92	3.98
	50	10A	15.875	15.9	2	25	10.16	5.09
	60	12A	19.05	21.3	2.35	31	11.91	5.96
	80	16A	25.4	27.1	3.2	38	15.88	7.94
	100	20A	31.75	32.2	4	47	19.05	9.54
VMV41 VMV51	40	08A	12.7	14.2	2	21	7.92	3.98
	50	10A	15.875	15.9	2.35	25	10.16	5.09
	60	12A	19.05	21.3	3.2	34.8	11.91	5.96
VMV41	80	16A	25.4	27.1	3.2	38	15.88	7.94
	100	20A	31.75	39.4	4	47	19.05	9.54

! VMV32 not applicable to 100 series.

Please order as shown

Code	Applicable Series	Pitch(P)
VMV31	25	6.35
VMV32	35	9.525

VMV31 — 25

Discount price

Per	1~49	50~
Price	100%	Additional quotation

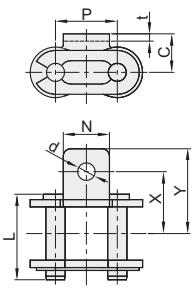
Delivery 12
! VMV41-80/100
! VMV51

Delivery 10
! The Remaining

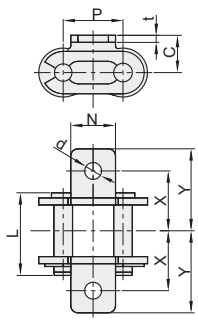
with Attachments Joint Links

Code	Type	Material
VMV61	One Side Type	Steel
VMV71	Both Sides Type	

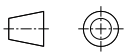
One Side Type
VMV61



Both Sides Type
VMV71



Inventory



The first perspective

Part Number Code	Part Number Series	ISO Chain Number	Pitch (P)	Plate Thickness t	Pins Length L≤	Attachment X	Attachment Y	Attachment Width N	Attachment C	Hole Diameter d
VMV61 VMV71	40	08A	12.7	1.5	21	12.7	17.5	9.5	7.92	3.6
	50	10A	15.875	2	25	15.88	22.6	12.7	10.3	5.2
	60	12A	19.05	2.35	31	19.05	27	15.9	11.9	
	80	16A	25.4	3.2	38	25.4	34.8	19.05	15.9	6.8

Please order as shown

Code	Series	Pitch(P)
VMV61	40	12.7
VMV71	50	15.875

VMV61—40

Discount price

Per	1~49	50~
Price	100%	Additional quotation

Delivery 10

Double Speed Sprockets / Chains / Joint Links

Sprockets

Code	Material		Heat Treatment	Surface Treatment
	GB	Equiv.		
VLW02	45	S45C	—	Black Oxide

Chains

Code	Material		Operating Temperature(℃)
	Chain	Roller	
VMW01	Steel	Nylon	-10~80
VMW02		Steel	

Joint Links

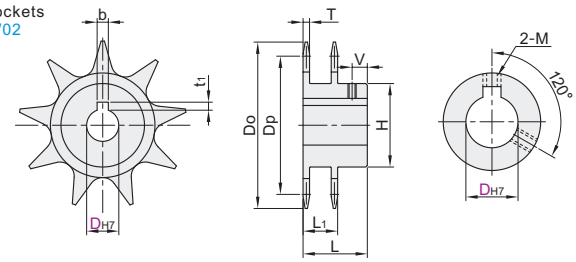
Code	Material	
	Chain	Roller
VMV81	Steel	Nylon
VMV91		Steel

Keyway/Tapped Hole Dimension

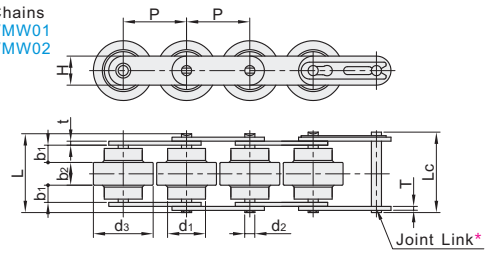
Shaft Bore Dia. D_{H7}	Keyway $b \times t_1$	Set Screw M
15	5×2.3	5
20	6×2.8	6
25/30	8×3.3	8
35	10×3.3	8
40	12×3.3	8
45/50	14×3.8	10

When the sprocket specification BS25-C226B has 9 teeth, the Set Screw is M5.

Sprockets
VLW02

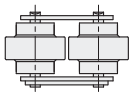


Chains
VMW01
VMW02

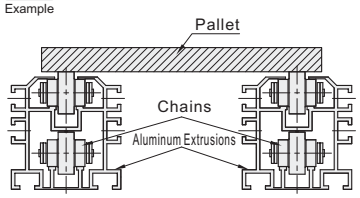


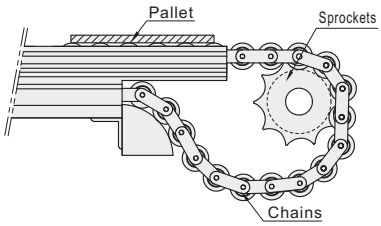
*joint links, you need to install it yourself.

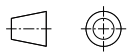
Joint Links
VMV81
VMV91



EX
Example







The first perspective

Sprockets

Part Number Code	Part Number Double Speed	No.	Number of Teeth	Shaft Bore Dia. D_{H7}	Do	Dp	T	H	L	V	L_1
VLW02	BS25 (2.5 Double Speed)	C206B	9	15 20	63	55.7	3	33	22	3.5	15.3
			10		68	61.65	3	37	25	5	15.3
		C208A	10	20 25	93	82.2	4	52	40	8	21.5
		C210A		25 30	117	102.75	5	66	45	9	27
		C212A		25 30 35 40 45	137	123.3	6	81	50	9	31
		C216A		25 30 35 40 45 50	187	164.39	8	110	67	10	40.5
	BS30 (3.0 Double Speed)	C206B	9	15 20	63	55.7	3.4	33	25	4	17
			10		68	61.65	3.4	37	25	4	17
		C208A	10	20 25	93	82.2	4.4	52	40	8	23
		C210A		25 30	117	102.75	5.5	66	45	9	28
		C212A		25 30 35 40 45	137	123.3	7.25	81	50	6.5	37
		C216A		25 30 35 40 45 50	187	164.39	8.8	110	67	10	46

Joint Links

Part Number Code	Part Number Double Speed	No.
VMV81 VMV91	BS25 (2.5 Double Speed)	C206B
		C208A
		C210A
		C212A
		C216A
	BS30 (3.0 Double Speed)	C206B
		C208A
		C210A
		C212A
		C216A

Chains

Part Number Code	Part Number Double Speed	No.	Number of Links	Pitch(P)	d_1	d_2	d_3	b_1	b_2	L	Lc	H	T	t
VMW01 VMW02	BS25 (2.5 Double Speed)	C206B	4~550	19.05	11.91	3.28	18.3	4	8	24.5	26	9	1.5	1.5
		C208A	4~410	25.4	15.88	3.96	24.6	5.7	10.3	31	32.8	11.7	1.5	2
		C210A	4~350	31.75	19.05	5.08	30.6	7.1	13	39.5	41.2	15	2	2.4
		C212A	4~300	38.1	22.23	5.94	36.6	8.5	14.5	48.8	50.5	18	3.2	4
		C216A	4~200	50.8	28.58	7.92	48	15	20	71	74	24.13	4	4
	BS30 (3.0 Double Speed)	C206B	4~550	19.05	9	3.28	18.3	4.5	9.1	26.3	29.6	7.28	1.3	1.5
		C208A	4~410	25.4	11.91	3.96	24.6	6.1	12.5	35.6	39.5	9.6	1.5	2
		C210A	4~350	31.75	14.8	5.08	30.6	7.54	15	43	47.1	12.2	2	2.4
		C212A	4~300	38.1	18	5.94	38	9.57	20	58.1	62.7	15	3.2	4
		C216A	4~200	50.8	22.23	7.92	49	12	25.2	71.9	77.3	18.6	4	5

Please order as shown

Sprockets

Code	Double Speed	No.	Number of Teeth	D_{H7}
VLW02	BS25	C206B	9	15 20
			10	

VLW02—BS25—C206B—9—D15

Chains

Code	Double Speed	No.	Number of Links
VMW01	BS25	C206B	4~550
VMW02		C208A	4~410

VMW01—BS25—C206B—10

Joint Links

Code	Double Speed	No.
VMV81	BS25	C206B
VMV91		C208A

VMV81—BS25—C206B

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Sprockets/Chains

Discount price

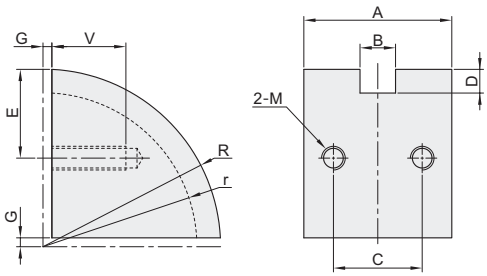
Per	1~9	10~
Price	100%	Additional quotation

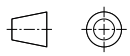
Joint Links

Return Guides for Double Speed Chains

Code	Type	Material	Color
VMH01	Return Guides for Double Speed Chains	Ultra High-Molecular-Weight Polyethylene	White

Inventory





The first perspective

Code	Part Number Double Speed	No.	A	B	C	D	E	M	r	R	V	G
VMH01	BS25	C206B	34	9	22	6	31	M6	54	60	25	3
		C208A	50	12	30	8	30	M8	52			
		C210A	56	15	35	10	32		50			
		C212A	60	18	39	12.5			47.5			
		C216A	70	23	45	15	41		65	80		
	BS30	C206B	34	10	22	9	31	M6	51	60		
		C208A	50	14	30	12	30	M8	48			
		C210A	56	17	35	14	32		40	64		
		C212A	60	23	39	17			43	60		
		C216A	70	28	45	20	41		60	80		

Please order as shown

Part Number Code	Double Speed	No.
VMH01	BS25	C206B / C208A

VMH01— BS25 — C206B

Optional Processing

Optional Processing

Part Number Code	Double Speed	No.	Optional Processing Code
VMH01	BS25	C206B / C208A	LB

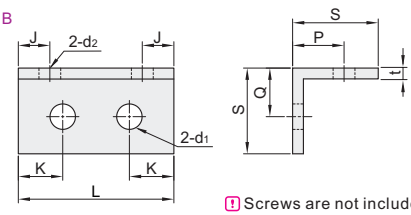
VMH01— BS25 — C206B — LB

Discount price

Per	1~9	10~
Price	100%	Additional quotation

Code	Spec.
LB	**Bracket Set is Shipped with Return Guide**

Ordering Code LB

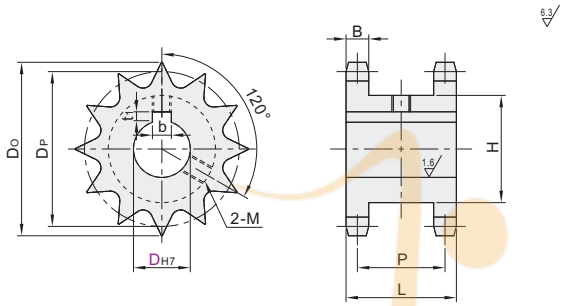


Screws are not included

Material: A6063-T5

Double Speed	No.	S	t	L	d1	d2	K	J	P	Q
BS25	C206B	25	3	34	6.5	6.5	6	6.75	18	17
	C208A	30		60	8.5	8.5	15	7.75	20	
	C210A	40	5	76			20.5	10.3	30	
	C212A			93			27			
	C216A			98			26.5	14		
BS30	C206B	25	3	38	6.5	6.5	8	6.25	18	15
	C208A	30		67	8.5	8.5	18.5	8.25	20	16
	C210A	40	5	80			22.5	10	30	
	C212A			102			31.5			17
	C216A			100			27.5	15		

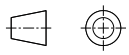
Code	Type	Material		Heat Treatment	Surface Treatment
		GB	Equiv.		
VLR01	40 Series	45	S45C	Induction Hardened Teeth Tip	Black Oxide
VLR11	50 Series				



Differences between tooth tip and keyway are ±0.3.

Shaft Bore Machining Dimension Table

Shaft Bore Dia. D	Keyway b×t1	Set Screw M
15	5×2.3	6
18~20	6×2.8	
25~30	8×3.3	
35	10×3.3	8
40	12×3.3	



The first perspective

40 Series

Part Number		Shaft Bore Dia.	Do	Dp	Hub		B	P	Weight
Code	Number of Teeth	DH7			H	L			(kg)
VLR01-40	12	15 18	55	49.07	34	35	7.2	27.8	0.33
	13	18 20	59	53.07	38				0.4
	14	18 20	63	57.07	42				0.49
	15	20 25	67	61.08	46				0.57
	16	20 25	71	65.1	50				0.66
	17	25 28 30	76	69.12	54				0.76
	18	25 28 30 35	80	73.14	59				0.89
	19	25 28 30 35	84	77.16	63				1
	20	25 28 30 35	88	81.18	67				1.14
	21	25 28 30 35	92	85.21	71				1.23

50 Series

Part Number		Shaft Bore Dia.	Do	Dp	Hub		B	P	Weight
Code	Number of Teeth	DH7			H	L			(kg)
VLR11-50	12	18 20	69	61.34	43	40	8.7	31.3	0.63
	13	20 25 28	74	66.34	48				0.75
	14	20 25 28 30	79	71.34	53				0.9
	15	20 25 28 30 35	84	76.35	58				1.04
	16	25 28 30 35 40	89	81.37	63				1.22
	17	25 28 30 35 40	94	86.39	68				1.41
	18	25 28 30 35 40	100	91.42	73				1.61
	19	25 28 30 35 40	105	96.45	79				1.8
	20	25 28 30 35 40	110	101.48	84				1.95
	21	28 30 35 40	115	106.51	89				2.27

Please order as shown

40 Series

Part Number		Shaft Bore Dia.	Do
Code	Number of Teeth	DH7	
VLR01-40	12	15 18	55
	13	18 20	59

VLR01-40 — 12 — D18

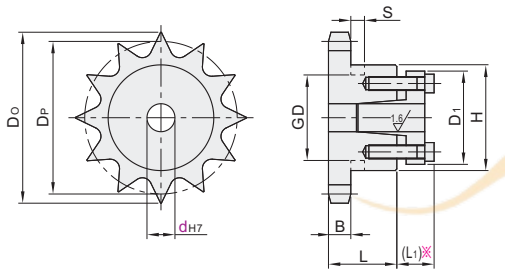
Discount price

Per	1~4	5~
Price	100%	Additional quotation

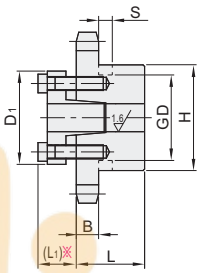
Delivery 9

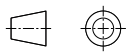
Code	Type	Sprockets			Bushings		Use Bushing
		Material	Heat Treatment	Surface Treatment	Material	Surface Treatment	
VLV01	35 Series	S45C	Induction Hardened Teeth Tip	Black Oxide	S45C	Black Oxide	See the figure below for the bushing size table
VLV11	40 Series						

Sprocket Shape
Shape A



Sprocket Shape
Shape B




The first perspective

For the size of L_1 with ※, please refer to "CT Bushing size table".

35 Series

Part Number		Sprocket Shape	Shaft Bore Dia.	Do	Dp	Hub		B	S	GD
Code	Number of Teeth		dH7			H	L			
VLV01-35	(12)	A	10	41	36.8	* 30.5	20	4.3	4.4	28.5
	13		10	44	39.8	* 32				30
	14		10 12	47	42.81	32				—
	15	B	10 12	51	45.81	35				
	16		10 12 15 16	54	48.82	37				
	18		12 15 16 17	60	54.85	44				
	20		12 15 16 17 18 20 22	66	60.89	50				

Sprockets with Number of Teeth 12 for A Shape only. Sprockets marked with * have grooves on hub O.D.

40 Series

Part Number		Sprocket Shape	Shaft Bore Dia.	Do	Dp	Hub		B	S	GD
Code	Number of Teeth		dH7			H	L			
VLV11-40	12	A	12 15 16 17	55	49.07	* 40	22	7.2	4.4	38
	13		12 15 16	59	53.07	37				—
	14		12 15 16 17	63	57.07	42				
	15		12 15 16 17 18 20	67	61.08	46				
	16	B	15 16 17 18 20 22	71	65.1	50				
	17		15 16 17 18 20 22	76	69.12	54				
	18		15 16 17 18 20 22 25	80	73.14	57				
	19		15 16 17 18 20 22 25	84	77.16	62				
	20		15 16 17 18 20 22 25	88	81.18	67	25			

Sprockets marked with * have grooves on hub O.D.

Please order as shown

40 Series

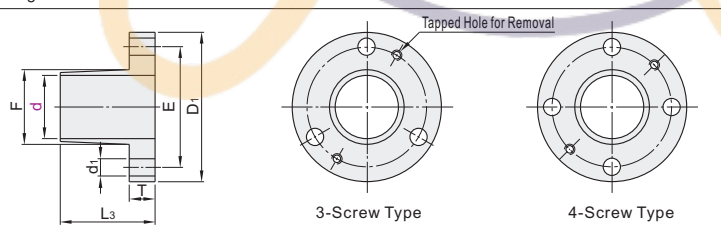
Part Number		Sprocket Shape	Shaft Bore Dia.
Code	Number of Teeth		dH7
VLV11-40	12	A	12 15 16 17
	13	B	12 15 16

VLV11-40 — 12 — A — d15

Discount price

Per	1~4	5~
Price	100%	Additional quotation

CT Bushing Dimension Table

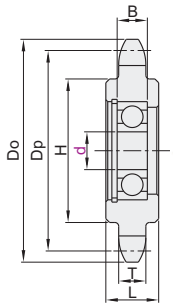


Shaft Bore Dia. d	Screws		Detaching Tapped Hole	Maximum Allowable Torque N.m	Allowable Thrust Load kN	Screw Tightening Torque N•m	D1	E	F	d1	L1	L3	T
	Qty.	Size											
10	3	M4-L16	M4-2 PCS	39	5.34	4.0	30	22	12	4.5	10.5	16.5	5
12				48			32	24	14				
15		M4-L18		78			36	28	17.6		12	22	6
16				83			37	29	18.6		13	23	7
17				88			38	30	19.6				
18	4	M5-L20	M5-2 PCS	154	8.74	8.3	43	33	20.6	5.5	14		
20				171			46	36	23.4				
22				186			48	38	24.6				
25				216			52	42	28.4				

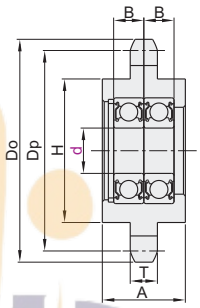
When there is key groove machining or D cut on the installation shaft, transmitting torque is reduced by approximately 15% or more.

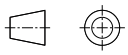
Code	Type		Main Body			Bearings
			Material	Heat Treatment	Surface Treatment	Material
VLS01	Center Bearing Type	Single Bearing	S45C	Induction Hardened Teeth Tip	Black Oxide	Steel
VLS11			Stainless Steel	—	—	Stainless Steel
VLS12		Double Bearings	S45C	Induction Hardened Teeth Tip	Black Oxide	Steel

Single Bearing
VLS01
VLS11



Double Bearings
VLS12




The first perspective

Part Number		Number of Teeth	d	A	L	H	T	Dp	Do	Bearing Dimensions		Cr(Allowable Load)kN	
Code	Series									Bearing Part No.	B	VLS01/12	VLS11
Single Bearing VLS01 VLS11 Double Bearings VLS12	25	17	6	18	12	27	2.8	34.56	38	606ZZ	6	1.95	1.92
		19	8	20	13	31		38.58	42	608ZZ	7	3.3	2.8
			10	19						6900ZZ	6	2.7	2.29
		20	12		13	33		40.59	44	6901ZZ	6	2.9	2.45
	35	16	10	22	14	38	4.3	48.82	54	6000ZZ	8	4.55	3.87
			12							6001ZZ	8	5.1	4.34
		18	15	28	17	44		54.85	60	6202ZZ	11	7.65	6.5
		21	17	31	19	53		63.91	69	6203ZZ	12	9.55	8.12
		25	20	35	21	60		76	81	6204ZZ	14	12.8	10.88
	40	13	10	22	14	38	7.2	53.07	59	6000ZZ	8	4.55	3.87
			12							6001ZZ	8	5.1	4.34
		15	15	28	17	44		61.08	67	6202ZZ	11	7.65	6.5
		17	17	31	19	53		69.12	76	6203ZZ	12	9.55	8.12
		19	20	35	21	60		77.16	84	6204ZZ	14	12.8	10.88
	50	12	12	26	16	43	8.7	61.34	69	6201ZZ	10	6.8	5.78
		13	15	28	17	44		66.34	74	6202ZZ	11	7.65	6.5
		15	17	31	19	53		76.35	84	6203ZZ	12	9.55	8.12
		17	20	35	21	60		86.39	94	6204ZZ	14	12.8	10.88
	60	11	12	26	16	44	11.7	67.62	76	6201ZZ	10	6.8	5.78
			15	28	17					6202ZZ	11	7.65	6.5
		13	17	31	19	53		79.6	89	6203ZZ	12	9.55	8.13
		14	20	35	21	60		85.61	95	6204ZZ	14	12.8	10.88
	80	9	15	28	17	44	14.6	74.27	85	6202ZZ	11	7.65	6.5
		10	17	31	19	52		82.2	93	6203ZZ	12	9.55	8.13
		11	20	35	21	60		90.16	102	6204ZZ	14	12.8	10.88

Please order as shown

Part Number		Number of Teeth	d
Code	Series		
VLS01	25	17	6
VLS11		19	8

VLS01 — 25 — 17 — d6

Discount price

Per	1~5	6~
Price	100%	Additional quotation

Single Bearing(S45C)

The Remaining

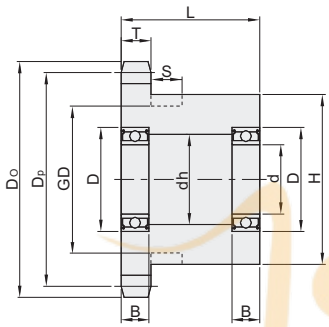
Idler Sprockets with Hub

Both Sides Bearing Type

Code	Type	Material		Heat Treatment	Surface Treatment
		Main Body	Bearing		
VLU01	Both Sides Bearing Type	S45C	Steel	Induction Hardened Teeth Tip	Black Oxide
VLU11		SUS304	Stainless Steel	—	—

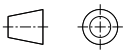
Bearing Accuracy: GB / T 307.1 Class 0
Equivalent To: JIS B1514 Class 0

Inventory



Sprockets marked with ※ have grooves on hub O.D.

Series	Number of Teeth	S	GD
35	10	4.4	20
	12		26
	13		29
40	10	5.2	27
	11		31
	12		35
50	12	6.4	44
	13		49



The first perspective

Bearings are press-fit.

Part Number		Number of Teeth	Do	Dp	dh	Hub		T	Bearing Dimensions				Allowable Load (Kn)	
Code	Series					H	L		Bearing No.×Qty.	d	D	B	Steel	Stainless Steel
VLU01 VLU11	35	10	35	30.82	13	24.5※	20	4.3	BAY6700ZZ×2	10	15	4	0.85	0.68
		12	41	36.8	18	30.5※			BAY6801ZZ×2	12	21	5	1.92	1.63
		13	44	39.8		32※								
		14	47	42.81	21				BAY6901ZZ×2		24	6	2.89	2.45
		15	51	45.81	24	35			BAY6001ZZ×2		28	8	5.1	4.35
		16	54	48.82		37								
		18	60	54.85		44								
		20	66	60.89	28	50			BAY6002ZZ×2	15	32	9	5.6	4.76
		21	69	63.91		53								
		22*	72	66.93		56								—
		25	81	76	34	53	22		BAY6904ZZ×2	20	37		6.4	5.42
		32	102	97.18										
	40	10	47	41.1	18	32※	22	7.2	BAY6801ZZ×2	12	21	5	1.92	1.63
		11	51	45.08	21	36※			BAY6901ZZ×2		24	6	2.89	2.45
		12	55	49.07	24	40※			BAY6001ZZ×2		28	8	5.1	4.35
		13	59	53.07		37								
		14	63	57.07		42								
		15	67	61.08	28	46			BAY6002ZZ×2	15	32	9	5.6	4.76
		16	71	65.1		50								
		17	76	69.12	34	54			BAY6904ZZ×2	20	37		6.4	5.42
		18	80	73.14		57								
		19	84	77.16		62								
		20	88	81.18	36	67	25		BAY6905ZZ×2	25	42		7.05	5.6
		24	104	97.3		63								
		25	108	101.33										
		26	112	105.36										
		30*	128	121.5										—
	50	12	69	61.34	29	50※	25	8.7	BAY6202ZZ×2	15	35	11	7.75	6.5
		13*	74	66.34		51※								—
		14	79	71.34		52								6.5
		15	84	76.35	34	57			BAY6904ZZ×2	20	37	9	6.4	5.42
		17	94	86.39		67								
		18	100	91.42	41	72	28		BAY6005ZZ×2	25	47	12	10.1	8.59
		20	110	101.48		73								
		24	130	121.62	48				BAY6006ZZ×2	30	55	13	13.2	11.2
		28	150	141.79	49				BAY6907ZZ×2	35		10	9.55	9.27
	60	12*	83	73.6	29	51	32	11.7	BAY6202ZZ×2	15	35	11	7.75	—
		14*	95	85.61	40	62			BAY6204ZZ×2	20	47	14	12.8	
		15*	101	91.62		68								
		17*	113	103.67	45	73			BAY6205ZZ×2	25	52	15	14	
		19*	126	115.74	55	83	40		BAY6206ZZ×2	30	62	16	19.5	
		20*	132	121.78										
		21*	138	127.82										
		22*	144	133.86										
		25*	162	151.99	60				BAY6207ZZ×2	35	72	17	25.7	
		30*	193	182.25										

With * Spec. is not applicable to VLU11.

Please order as shown

Part Number		Number of Teeth
Code	Series	
VLU01	35	10
		12

VLU01 — 35 — 10

Discount price

Per	1~5	6~
Price	100%	Additional quotation

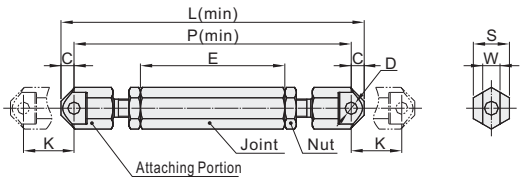
Delivery 11

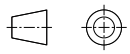
Turnbuckles (Set)

- Standard
- Long
- Threaded

Standard

Code	Type	Material			Surface Treatment	Hardness	
		Joint	Nut	Attaching Portion		Joint/Nut	Attaching Portion
VSR01	Standard	SUM22L	SS400	S45C	Black Oxide	—	35~40HRC
VSR02		SUS303			—	—	



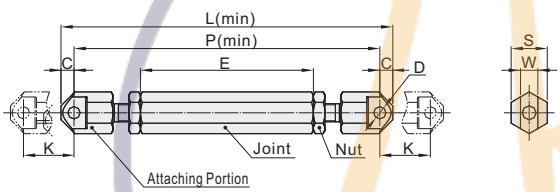


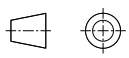
The first perspective

Code	Applicable Roller Chains Nominal	L(min)	P(min)	C	D	E	K	W	S	Weight (g)
VSR01 VSR02	11	40	36.4	1.8	1.7	20	4	2.4	5	6.6
	15	46	41.6	2.2		22	5	3.4	6	9.6
	25	62	56	3	2.4	33	7.5	4.8	7	18
	35	85	76	4.5	3.7	43	10	7.4	10	44
	40	110	98	6	4	55	13	11.2	13	105
	50	135	120	7.5	5.2	67	16	13.8	17	215
	60	161	143	9	6	81	20	17.8	19	330
	80	201	177	12	8	95	21	22.6	24	680

Long

Code	Type	Material			Surface Treatment	Hardness	
		Joint	Nut	Attaching Portion		Joint/Nut	Attaching Portion
VSR21	Long	SUM22L	SS400	S45C	Black Oxide	—	35~40HRC



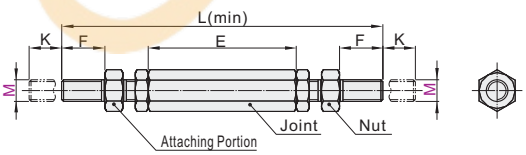


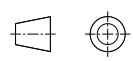
The first perspective

Code	Applicable Roller Chains Nominal	L(min)	P(min)	C	D	E	K	W	S	Weight (g)
VSR21	25	102.6	96.6	3	2.4	69	22.4	4.8	7	57
	35	143	134	4.5	3.7	95	33	7.4	10	134
	40	175	163	6	4	115	39	11.2	13	283
	50	200	185	7.5	5.2	126	40	13.8	17	411
	60	275	257	9	6	185	66	17.8	19	918
	80	335	311	12	8	225	80	22.6	24	1741

Threaded

Code	Type	Material			Surface Treatment	Hardness	
		Joint	Nut	Attaching Portion		Joint/Nut	Attaching Portion
VSR41	Threaded	SUM22L	SS400	S45C	Black Oxide	—	35~40HRC





The first perspective

Code	M	L(min)	E	F	K	Weight (g)
VSR41	3	46	22	6	5	7.6
	4	64	33	8	7.5	16
	6	89	43	12	10	40
	8	116	55	16	13	115
	10	143	67	20	16	185
	12	171	81	24	20	290
	16	217	95	32	21	600

Please order as shown

Standard

Code	Applicable Roller Chains Nominal	L(min)
VSR01	11	40
VSR02	15	46

VSR01— 11

Threaded

Code	M	L(min)
VSR41	3	46
	4	64

VSR41— M3

Discount price

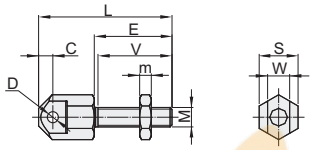
Per	1~5	6~
Price	100%	Additional quotation

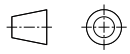
Turnbuckles (Single Piece)

Standard

Code	Type		Screw Turn Direction	Material: Attaching Portion	Material: Nut	Surface Treatment	Hardness: Attaching Portion
VSS01	Standard	Standard	Right-Hand Thread	S45C	SS400	Black Oxide	35~40HRC
VSS02				SUS303	SUS303	—	—
VSS11			Left-Hand Thread	S45C	SS400	Black Oxide	35~40HRC
VSS21		Long	Right-Hand Thread				

Inventory





The first perspective

Part Number: Code	Applicable Roller Chains Nominal	M	L	C	D	E	V	W	S	m	Max. Load(kN): VSS01 VSS11	Max. Load(kN): VSS02	Weight (g)
Standard VSS01 VSS02 VSS11	15	3	20.6	2.2	1.7	12	10	3.4	6	1.8	0.44	—	2.8
	25	4	28.2	3	2.4	18	16.5	4.8	7	2.4	0.78	0.68	5
	35	6	40	4.5	3.7	25	23.5	7.4	10	3.6	1.96	1.57	12
	40	8	52.5	6	4	33	31	11.2	13	5	3.53	2.84	30
	50	10	65	7.5	5.2	41	39	13.8	17	6	5.68	4.51	60
	60	12	78	9	6	49	47	17.8	19	7	8.23	6.57	100
	80	16	98	12	8	60	57	22.6	24	10	15.4	12.3	210

Part Number: Code	Applicable Roller Chains Nominal	M	L	C	D	E	V	W	S	m	Max. Load (kN)	Weight (g)
Long VSS21	25	6	48.2	3	2.4	38	35	4.8	7	3.6	0.78	11
	35	8	69	4.5	3.7	54	50	7.4	10	5	1.96	27
	40	10	84	6	4	64.5	60	11.2	13	6	3.53	56
	50	12	95	7.5	5.2	71	65	13.8	17	7	5.68	94
	60	16	135	9	6	106	100	17.8	19	10	8.23	218
	80	20	165	12	8	127	119	22.6	24	12	15.4	414

Please order as shown

Part Number: Code	Applicable Roller Chains Nominal	M
VSS01	15	3
VSS02	25	4

VSS01— 15

Discount price

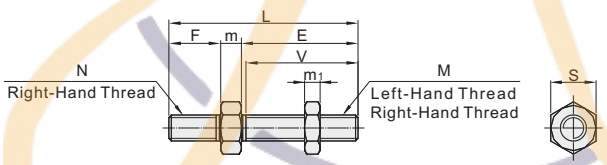
Per	1~5	6~
Price	100%	Additional quotation

Delivery 12

Threaded

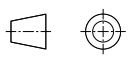
Code	Type	Screw Turn Direction	Material: Attaching Portion	Material: Nut	Surface Treatment	Hardness: Attaching Portion
VSS41	Threaded	Right-Hand Thread	S45C	SS400	Black Oxide	35~40HRC
VSS46		Left-Hand Thread				

Inventory



When VSS41 is selected, the M and N ends are right-handed threads.

When VSS46 is selected, N is right-hand thread and M is left-hand thread.



The first perspective

Part Number: Code	No.	M/N	L	E	F	V	m	m_1	S	Weight (g)
Right-Hand Thread VSS41 Left-Hand Thread VSS46	4	4	29.2	18	8	16.5	3.2	2.4	7	4
	6	6	42	25	12	23.5	5	3.6	10	10
	8	8	55.5	33	16	31	6.5	5	13	25
	10	10	69	41	20	39	8	6	17	45
	12	12	83	49	24	47	10	7	19	80
	16	16	105	60	32	57	13	10	24	170

Please order as shown

Part Number: Code	No.
VSS41	4
VSS46	6

VSS41— 4

Discount price

Per	1~5	6~
Price	100%	Additional quotation

Delivery 12