

Yale *CPV*

Electric chain hoist with suspension hook or with integrated trolley

Capacity 125 - 5000 kg

The electric chain hoist CPV combines modern design and technical innovation. A robust construction makes the series a versatile tool for professional applications.
The integrated limit switch for the highest and lowest hook position considerably extends the working life span of the slip clutch, motor and gearbox.

Features

- Increased operating safety through 42 V control voltage (low voltage control) and the main contactor.
- The integrated limit switch for the highest and lowest hook position considerably extends the service life of the slip clutch, motor and gearbox.
- Overload protection (slip clutch) in all CPV hoists is outside force flow to meet higher safety requirements.
- Electromagnetic spring pressure brake holds the load safely even in the event of power failure.
- Different suspension types available such as top hook, lug or an integrated trolley. A retro-fit to another type of suspension is possible.
- Any chain length (lifting height) as per customer order.
- Oil bath gearbox (or semifluid grease with CPV/F 2-8 and 5-4 as well as CPV 2-4 and 5-2) with helical gearing for particularly smooth service and enhanced lifetime.
- All-steel chain guide.
  The chain guide of the smallest hoist CPV/F 2-8 and 5-4 as well as CPV 2-4 and 5-2 is a thermoplastic (POM) chain guide that is integral with the housing.
- CPV series are protected up to IP 55
- 2 year warranty (excluding wear parts).

COMPLETE SERIES CPV

CAPACITIES 125 - 5000 KG

WITH

SUSPENSION HOOK AS STANDARD,

SUSPENSION LUG AS AN OPTION,

PUSH, GEARED OR ELECTRIC TROLLEY

INFO

Festooned cable systems please see pages 160 - 161.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Optional

- Other operating and control voltages.
- Flexible chain containers.
- Power supply cables, CEE plugs with phase changing switch.
- Radio remote controls, also acc. to DIN EN 13849-1, PL „d“.
- Pluggable control pendants.
- Wall mounted controls.
- Rotary limit switch as a back-up to standard limit switches.
- Frequency controllers, stepless and ramp controls.
- Suspensions 90° turned.
- Thermal sensors.



Optional:
Radio remote control



Optional:
with suspension lug

Yale *CPV*

Further standards

CPV „Quick Delivery“ 24 h programme

Capacity 250 - 1000 kg

Features

- Top suspension hook
- Lifting height 6 m
- With chain container

SPECIAL MODEL CPV
“QUICK DELIVERY”
THE HOIST CAN BE SHIPPED EX CMCO WUPPERTAL WITHIN 24 HOURS

Technical data CPVF - 24 h “Quick Delivery” programme

Model	Art.-No.	Capacity kg	Number of chain falls	Lifting speed in m/min	
				main lift	fine lift
CPVF 2-8	192052434	250	1	8	2
CPVF 5-8	192052435	500	1	8	2
CPVF 10-8	192052436	1000	1	8	2

Technical data CPV/CPVF - 400 V, 3 Ph, 50 Hz

Capacity kg	Model	Number of chain falls	Chain dimensions d x p mm	Classification FEM/ISO	Lifting speed main lift m/min	Lifting speed fine lift m/min	Hoist motor rating kW	Motor rating ED %	Weight at standard lift (3 m) [1] suspension lug kg	Weight at standard lift (3 m) [1] push trolley [2] kg	Weight at standard lift (3 m) [1] electric trolley [3] kg
125	**CPV 2-8**	1	4 x 12.2	3 m/M6	8	–	0.37	75	17	26	31
125	**CPVF 2-8**	1	4 x 12.2	3 m/M6	8	2	0.37/0.09	50/25	18	27	32
250	**CPV 2-8**	1	4 x 12.2	1 Am/M4	8	–	0.37	50	17	26	31
250	**CPVF 2-8**	1	4 x 12.2	1 Am/M4	8	2	0.37/0.09	33/17	18	27	32
250	**CPVF 2-18**	1	5 x15.1	1 Am/M4	18	4.5	0.75/0.18	33/17	27	42	50
320	**CPV 5-8**	1	5 x 15.1	3 m/M6	8	–	0.75	67	26	41	49
320	**CPVF 5-8**	1	5 x 15.1	3 m/M6	8	2	0.75/0.18	45/22	27	42	50
500	**CPV 5-4**	2	4 x 12.2	1 Am/M4	4	–	0.37	50	20	29	34
500	**CPVF 5-4**	2	4 x 12.2	1 Am/M4	4	1	0.37/0.09	33/17	21	30	35
500	**CPV 5-8**	1	5 x 15.1	1 Am/M4	8	–	0.75	50	26	41	49
500	**CPVF 5-8**	1	5 x 15.1	1 Am/M4	8	2	0.75/0.18	33/17	27	42	50
500	**CPVF 5-18**	1	7.1 x 20.5	1 Am/M4	18	4.5	1.5/0.37	33/17	59	78	85
630	**CPV 10-8**	1	7.1 x 20.5	3 m/M6	8	–	1.5	67	58	77	84
630	**CPVF 10-8**	1	7.1 x 20.5	3 m/M6	8	2	1.5/0.37	45/22	59	78	85
1000	**CPV 10-4**	2	5 x 15.1	1 Am/M4	4	–	0.75	50	28	43	51
1000	**CPVF 10-4**	2	5 x 15.1	1 Am/M4	4	1	0.75/0.18	33/17	29	44	52
1000	**CPV 10-8**	1	7.1 x 20.5	1 Am/M4	8	–	1.5	50	58	77	84
1000	**CPVF 10-8**	1	7.1 x 20.5	1 Am/M4	8	2	1.5/0.37	33/17	59	78	85
1500	**CPV 20-4**	2	7.1 x 20.5	2 m/M5	4	–	1.5	62	63	82	89
1500	**CPVF 20-4**	2	7.1 x 20.5	2 m/M5	4	1	1.5/0.37	41/21	64	83	90
2000	**CPV 20-4**	2	7.1 x 20.5	1 Am/M4	4	–	1.5	50	63	82	89
2000	**CPVF 20-4**	2	7.1 x 20.5	1 Am/M4	4	1	1.5/0.37	33/17	64	83	90
2000	**CPVF 25-8**	1	11.3 x 31	2 m/M5	8	2	3.6/0.9	39/20	85	147	161
2500	**CPVF 25-8**	1	11.3 x 31	1 Am/M4	8	2	3.6/0.9	33/17	85	147	161
3200	**CPVF 50-4**	2	11.3 x 31	3 m/M6	4	1	3.6/0.9	44/22	98	160	174
5000	**CPVF 50-4**	2	11.3 x 31	1 Am/M4	4	1	3.6/0.9	33/17	98	160	174

CPV - 230 V, 1 PH, 50 HZ

125	**CPV 2-4**	1	4 x 12.2	3 m/M6	4	–	0.37	35
250	**CPV 2-4**	1	4 x 12.2	1 Bm/M3	4	–	0.37	25
500	**CPV 5-2**	2	4 x 12.2	1 Bm/M3	2	–	0.37	25
500	**CPV 5-8**	1	5 x 15.1	1 Bm/M3	8	–	1.0	25
1.000	**CPV 10-4**	2	5 x 15.1	1 Bm/M3	4	–	1.0	25

[1] Other lifting heights on request. [2] For trolleys type A and B: Additional weight for geared trolley (VTG): 2.5 kg
[3] For electric trolley with 2 speeds (VTEF) +2.0 kg



Depicted chain container optionally available.

Trolleys

Suitable for	All trolleys: Capacity of the trolley kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Electric trolley: Travel speed m/min at 50 Hz	Motor kW at 50 Hz
CPV/CPVF 2-8/5-4, CPV 2-4/5-2	500	A	58 - 180	19	0.9	11 or 18	0.09
CPV/CPVF 2-8/5-4, CPV 2-4/5-2	500	B	180 - 300	19	0.9	11 or 18	0.09
CPV/CPVF 5-8/10-4, CPVF 2-18	1000	A	58 - 180	19	0.9	18 or 18/4.5 [1]	0.18 or 0.18/0.06
CPV/CPVF 5-8/10-4, CPVF 2-18	1000	B	180 - 300	19	0.9	18 or 18/4.5 [1]	0.18 or 0.18/0.06
CPV/CPVF 10-8/20-4, CPVF 5-18	2000	A	58 - 180	19	1.15	18 or 18/4.5 [1]	0.18 or 0.18/0.06
CPV/CPVF 10-8/20-4, CPVF 5-18	2000	B	180 - 300	19	1.15	18 or 18/4.5 [1]	0.18 or 0.18/0.06
CPVF 25-8/50-4	5000	A	98 - 180	27	2.0	11 or 11/2.8	0.37 or 0.3/0.09
CPVF 25-8/50-4	5000	B	180 - 300	27	1.8	11 or 11/2.8	0.37 or 0.3/0.09

[1] Alternatively 11 or 11/2.8 m/min

Yale *CPV*

Options and features for applications

FOR CORROSIVE ENVIRONMENT & FOOD INDUSTRY



- Stainless steel load chains.
- Stainless steel load hooks for single fall hoists.
- Zinc- or copper- bottom blocks for double fall hoists.
- Zinc plated trolleys and/or 2-component topcoat.
- Food industry approved gearbox lubricants and grease (H1).
- Textile rain coats for hoists and trolleys.

FOR SIMULTANEOUS LIFTING

Yale offers solutions for lifting loads with two or more electric chain hoists simultaneously. Depending on the customer's application, the hoist system must meet various and sometimes very demanding requirements.

Please contact Columbus McKinnon to find a suitable solution.

- Radio or cable controls
- Movement selection: single or group movement
- On trolleys or as point hoists
- Coupled trolleys

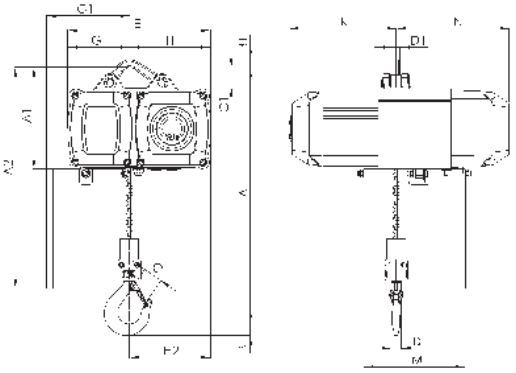
FOR CRANE BUILDING

- Beam locking device for trolleys
- Rubber buffers for trolleys
- Trolley travel end buffer stops
- 90° suspension on trolley
- Counter for operating hours
- Trolley travel end limit switches
- Signal horn or lamp for crane applications
- Festoon cable systems or other power supply
- Suspensions for light crane systems
- Crane operation pendants

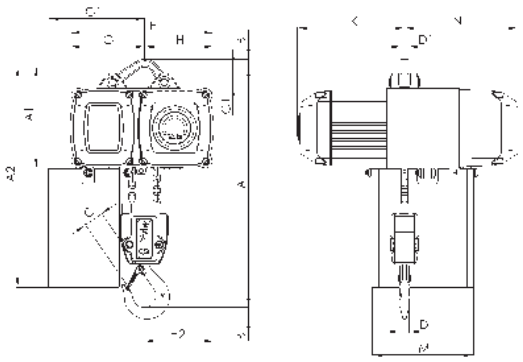
Dimensions CPV/CPVF

Model	CPV/CPVF 2-8 CPV 2-4	CPV/CPVF 5-4 CPV 5-2	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4	CPVF 25-8	CPVF 50-4
A, mm	327	363	357	430	431	528	514	658
A1, mm	163	163	196	196	234	234	288	288
A2 (dimension with chain container), mm								
- Size I (for lifting height, m)	343 (15 m)	343 (7.5 m)	476 (10 m)	476 (5 m)	564 (12 m)	564 (6 m)	580 (13 m)	580 (6 m)
- Size II (for lifting height, m)	413 (32 m)	413 (16 m)	526 (22 m)	526 (11 m)	644 (18 m)	644 (9 m)	764 (25 m)	764 (12 m)
- Size III (for lifting height, m)	483 (52 m)	483 (26 m)	606 (40 m)	606 (20 m)	734 (25 m)	734 (12 m)	854 (30 m)	854 (15 m)
- Size IV (for lifting height, m)	–	–	798 (64 m)	798 (32 m)	934 (40 m)	934 (20 m)	–	–
B, mm	23	23	22	29	29	37	37	37
B1, mm	12	12	15	15	20	20	33	33
C, mm	30	30	29	35	35	40	46	46
C1, mm	30	30	38	38	45	45	71	71
C2, mm	105	105	105	105	154	154	194	194
D, mm	16	16	15	21	21	26	35	35
D1, mm	12	12	15	15	15	15	25	25
E, mm	205	205	277	277	326	326	409	409
G, mm	106	126	120	144	140	173	179	179
G1 (size I), mm	124	124	142	166	175	208	264	264
G1 (size II), mm	124	124	162	186	175	208	264	264
G1 (size III), mm	124	124	162	186	175	208	265	265
G1 (size IV), mm	124	124	162	186	175	208	–	–
H, mm	99	79	157	133	186	154	230	230
H2, mm	92	72	158	158	186	186	230	180
K, mm	215	215	208	208	285	285	335	335
M (size I), mm	157	157	162	162	209	209	300	300
M (size II), mm	157	157	197	197	209	209	300	300
M (size III), mm	157	157	197	197	209	209	301	301
M (size IV), mm	157	157	197	197	209	209	–	–
N [1], mm	159	159	219	219	274	274	299	299

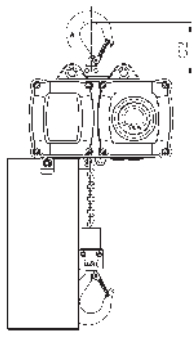
[1] for 230 V, 1 Ph, 50 Hz: approx. +35 mm



CPV/CPVF
with suspension lug, 125 - 2500 kg, single fall



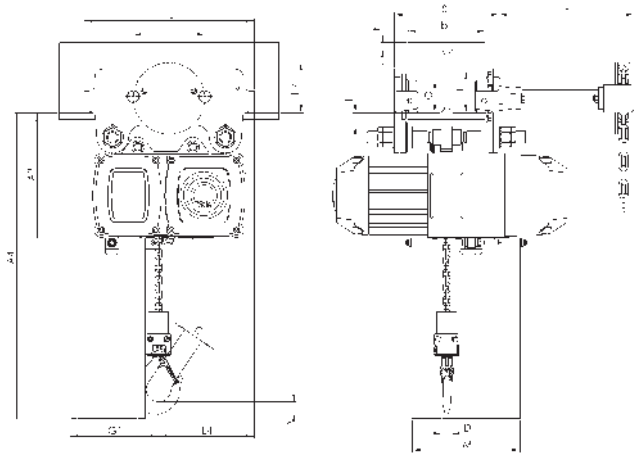
CPV/CPVF
with suspension lug, 500 - 5000 kg, double fall



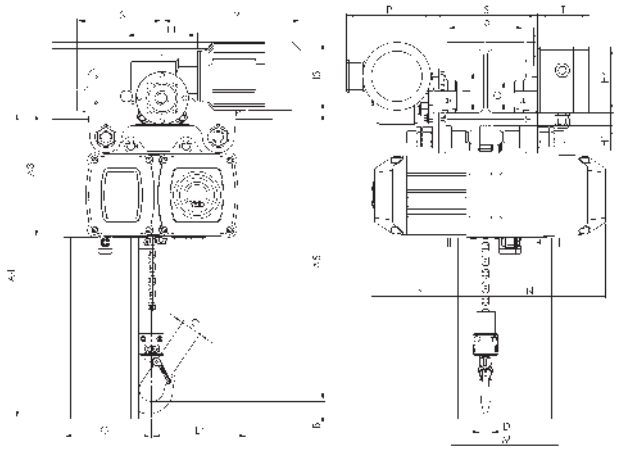
CPV/CPVF
with suspension lug, 250 - 2500 kg

Dimensions CPV/CPVF

Model	CPV/CPVF 2-8 CPV 2-4	CPV/CPVF 5-4 CPV 5-2	CPVF 2-18 CPV/CPVF 5-8	CPV/CPVF 10-4	CPVF 5-18 CPV/CPVF 10-8	CPV/CPVF 20-4	CPVF 25-8	CPVF 50-4
A3, mm	199	199	228	228	263	263	339	339
A4 (dimension with chain container), mm								
- Size I (for lift-height, m)	379 (15 m)	379 (7.5 m)	508 (10 m)	508 (5 m)	593 (12 m)	593 (6 m)	631 (13 m)	631 (6 m)
- Size II (for lift-height, m)	449 (32 m)	449 (16 m)	558 (22 m)	558 (11 m)	673 (18 m)	673 (9 m)	815 (25 m)	815 (12 m)
- Size III (for lift-height, m)	519 (52 m)	519 (26 m)	638 (40 m)	638 (20 m)	768 (25 m)	768 (12 m)	905 (30 m)	905 (15 m)
- Size IV (for lift-height, m)	–	–	830 (64 m)	830 (32 m)	968 (40 m)	968 (20 m)	–	–
A5, mm	365	401	389	462	460	558	648	738
b, mm	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 58 - 180 B = 180 - 300	A = 98 - 180 B = 180 - 300	A = 98 - 180 B = 180 - 300
H1, mm	25	25	24	24	23	23	30	30
H3, mm	113	113	129	129	129	129	178	178
H4 (VTG), mm	95	95	95	95	95	95	149	149
H4 (VTE), mm	142	142	142	142	142	142	121	121
I (Push trolley), mm	72	72	72	72	96	96	142	142
I (Geared trolley), mm	76	76	77	77	98	98	149	149
L (VTP/VTG), mm	310	310	310	310	360	360	525	525
L1, mm	130	130	130	130	150	150	209	209
L2 (VTE), mm	255	255	255	255	255	255	292	292
L2 (VTEF), mm	222	222	263	263	263	263	296	296
L3, mm	135	135	155	155	180	180	263	263
L4, mm	131	111	173	161	203	203	258	208
O, mm	60	60	60	60	80	80	125	125
P, mm	171	171	180	180	180	180	172	172
P1, mm	236	236	246	246	246	246	233	233
S, mm	b + 50	b + 50	b + 50	b + 50	b + 54	b + 54	b + 70	b + 70
T, mm	94	94	94	94	94	94	94	94
tmax., mm	12	12	19	19	19	19	27	27



CPV/CPVF
with integrated manual push or geared trolley



CPV/CPVF
with integrated electric trolley