



APPLICATIONS

- > Vineyards
- > Dairy washdown
- > Chiller water pumping
- > Hot water washing
- > Treated water transfer
- > Small industrial applications



CS Series Pumps

The CS pumps are a 304 stainless steel pressed metal design, close coupled to a standard frame (B35) motor all mounted on a 304 stainless steel base. Ideal for clean water applications, the CS range covers heads from 15 metres to 58 metres and flow rates up to 1300 lpm.

WHY CHOOSE DAVEY CS SERIES PUMPS?

Pressed 304 stainless steel construction is ideal for clean water applications.

Improved efficiency using Davey's patented floating neck ring, a 360° flaring of the volute and excellent impeller design.

Davey CS pumps come standard with a high temperature mechanical seal and can hand liquid temperatures from -15°C to +110°C.

They come with DIN (EN733) companion flanges and are mounted on a 304 stainless steel base for excellent corrosion resistance.

They consist of a back pull-out design which allows the rotating element of pump to be removed for servicing without the need to disconnect the pipework.

Come with non-overloading standard frame motors. All three phase motors comply to the Minimum Energy Performance Standard (MEPS) for motors.

Feature a replaceable stub shaft motor for easy repairs of the wet end components and easy motor replacement.

MATERIALS OF CONSTRUCTION

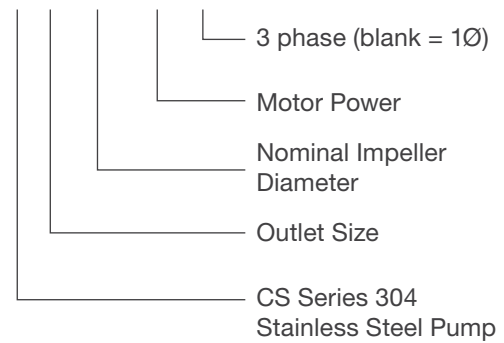
PART	MATERIAL
Casing	304 Stainless Steel
Impeller	304 Stainless Steel
Key	304 Stainless Steel
Impeller Nut	304 Stainless Steel
Mechanical Seal	Carbon/Silicon Carbide/EPDM
Back Cover	304 Stainless Steel
Bell Housing	Cast Iron

OPERATING LIMITS

Maximum Heads	58 metres
Maximum Flow	1300 lpm (78 m ³ /hr)
Maximum Operating Pressure	10 bar (1000 kPa)
Water Temperature	-20°C to +110°C
Ambient Temperature	-15°C to +40°C

IDENTIFICATION OF THE PUMP

CS32-125 / 1.1 / 3



MOTOR TECHNICAL SPECIFICATIONS - 1 Ø (50Hz)

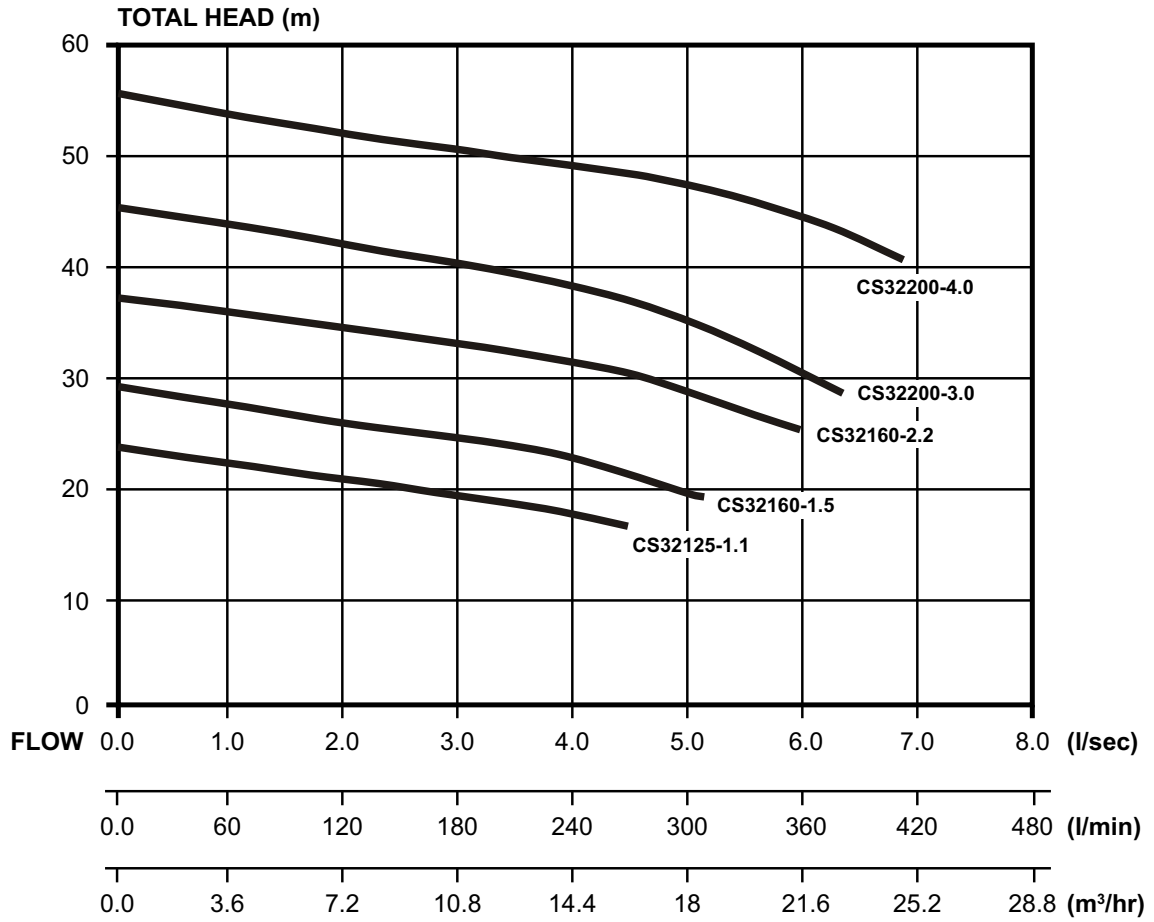
Motor 1 Ø	Frame	IP Rating	FLC 240V (Amps)	Locked Rotor Current (A)	RPM	Efficiency %	Bearings	
							Drive End	Non-Drive End
1.1	80 B35	55	6.1	35.3	2834	75.3	6204-ZZ	6204-ZZ
1.5	90 B35	55	7.9	43.3	2850	79.3	6205-ZZ	6205-ZZ
2.2	90 B35	55	11.27	61.8	2870	81.6	6205-ZZ	6205-ZZ

MOTOR TECHNICAL SPECIFICATIONS - 3 Ø (50Hz)

Motor 3 Ø	Frame	IP Rating	FLC 415V (Amps)	Locked Rotor Current (A)	RPM	Efficiency %	Bearings	
							Drive End	Non-Drive End
1.5	90 B35	55	3.18	23	2854	83.2	6205-ZZC3	6205-ZZC3
2.2	90 B35	55	4.39	28.5	2856	85.4	6205-ZZC3	6205-ZZC3
3	100 B35	55	5.69	39.9	2880	87.2	6206-ZZC3	6206-ZZC3
4	112 B35	55	7.1	49	2903	90.6	6306-S	6306-S
5.5	132 B35	55	9.85	68	2919	90.3	7308B	6308ZZC3
7.5	132 B35	55	12.9	91	2928	91.5	7308B	6308ZZC3
9.2	132 B35	55	15.55	tba	2943	91.5	7308B	6308ZZC3
11	160 B35	55	19.3	135	2938	90.2	7309B	6309ZZC3



HYDRAULIC PERFORMANCE - CS32



EFFICIENCY AT BEP

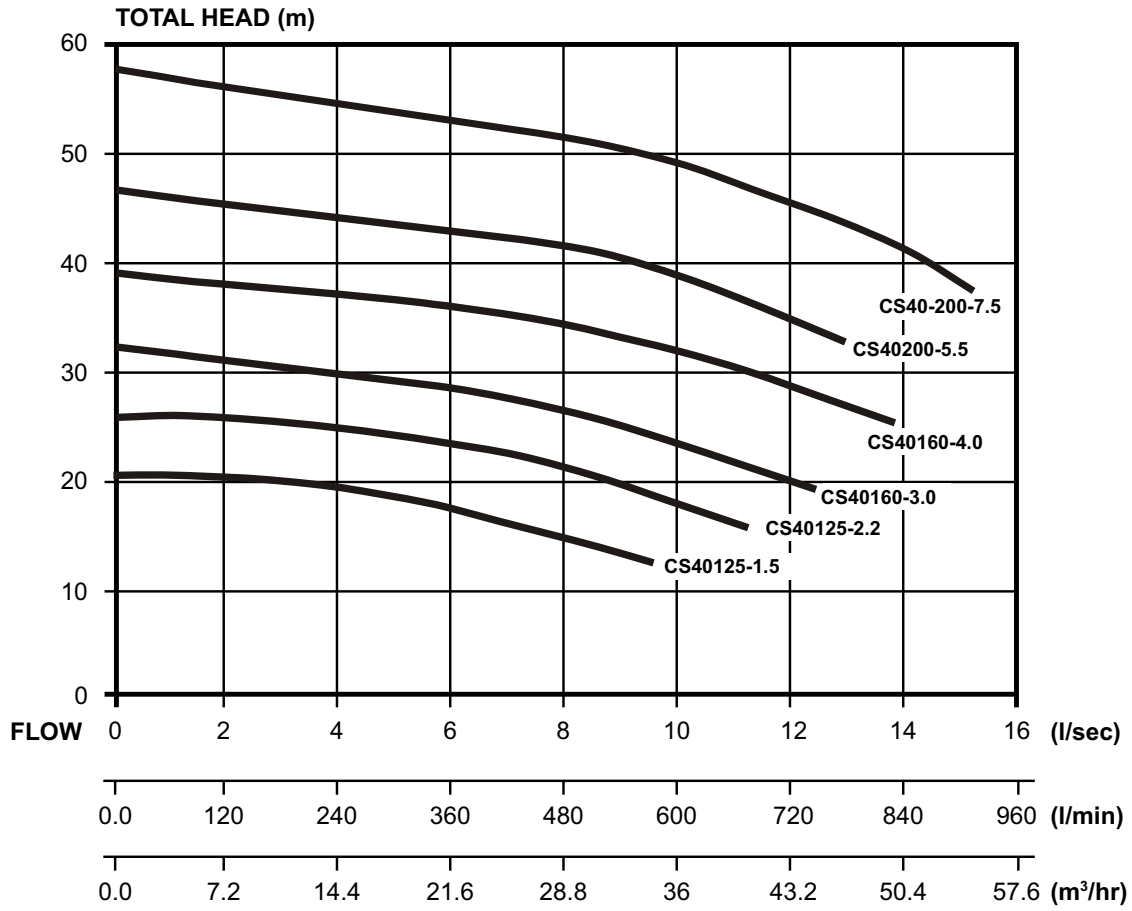
Type	Flow l/sec	Pump Efficiency
CS32-125/1.1	3.9	63.9%
CS32-160/1.5	5.2	66.7%
CS32-160/2.2	5	67.2%
CS32-200/3.0	5	60.1%
CS32-200/4.0	6.2	61.6%

NPSHr

Type	Flow l/sec	NPSHr
CS32-125/1.1	3.3	1.9
	5.0	2.5
CS32-160/1.5	3.3	2.0
	5.0	2.3
	5.0	2.1
CS32-160/2.2	2.2	1.5
	3.3	1.6
	5.0	2.1
CS32-200/3.0	2.2	1.5
	3.3	1.8
	5.8	2.9
CS32-200/4.0	2.2	1.6
	3.3	1.7
CS32-200/4.0	5.8	2.4



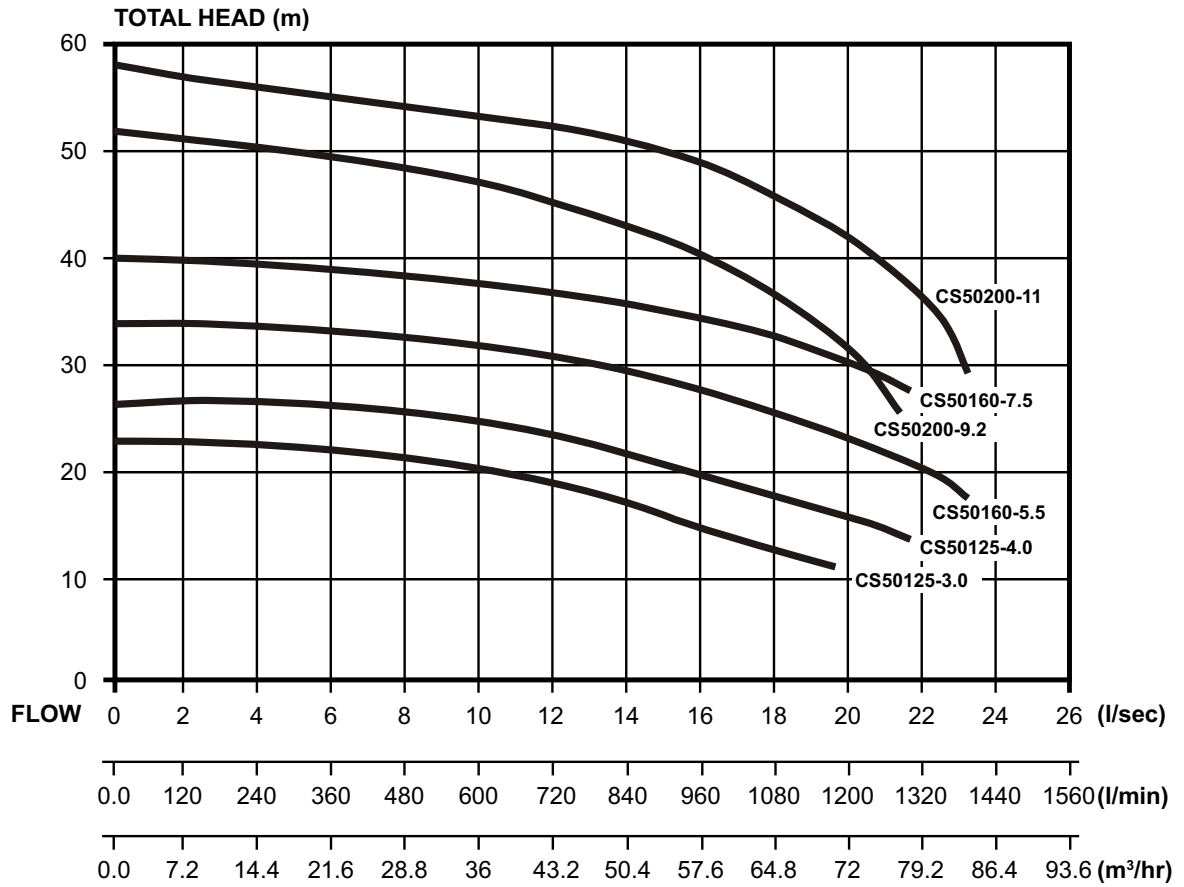
HYDRAULIC PERFORMANCE - CS40



EFFICIENCY AT BEP		
Type	Flow l/sec	Pump Efficiency
CS40-125/1.5	7.7	73.5%
CS40-125/2.2	8.5	77.0%
CS40-160/3.0	9.7	77.0%
CS40-160/4.0	9.9	73.8%
CS40-200/5.5	9.8	68.7%
CS40-200/7.5	12.6	70.4%

NPSHr		
Type	Flow l/sec	NPSHr
CS40-125/1.5	5.0	1.8
	6.9	1.9
	9.7	2.6
CS40-125/2.2	5.0	1.5
	6.9	2.0
	9.7	3.1
CS40-160/3.0	5.0	1.7
	6.9	1.8
	9.7	3.2
CS40-160/4.0	5.0	1.6
	6.9	1.8
	9.7	2.7
CS40-200/5.5	5.0	1.8
	6.9	2.3
	9.7	3.1
CS40-200/7.5	5.0	1.8
	6.9	2.1
	9.7	3.1

HYDRAULIC PERFORMANCE - CS50



EFFICIENCY AT BEP		
Type	Flow l/sec	Pump Efficiency
CS50-125/3.0	11.7	73.0%
CS50-125/4.0	13.4	74.5%
CS50-160/5.5	15.8	76.6%
CS50-160/7.5	17.8	76.8%
CS50-200/9.2	15.6	74.9%
CS50-200/11	17.8	74.5%

NPSHr		
Type	Flow l/sec	NPSHr
CS50-125/3.0	8.3	1.8
	13.9	2.9
	16.7	3.4
CS50-125/4.0	8.3	1.9
	13.9	2.8
	16.7	3.4
CS50-160/5.5	8.3	2.4
	13.9	2.8
	16.7	4.2
CS50-160/7.5	8.3	2.2
	13.9	2.9
	16.7	4.0
CS50-200/9.2	8.3	1.9
	13.9	3.2
	16.7	4.1
CS50-200/11	8.3	2.0
	13.9	2.9
	16.7	4.0



DIMENSIONS (MM)

Model	E	F	h1	h2	h3	L	L1	L2	W	W1	W2	D2	K2	P2	S2	D1	K1	P1	S1	DNA	DNM	Weight (kg)
CS32125-1.1/1	209	443.5	112	140	252	460	360	50	330	295	250	165	125	99	18	140	100	76	18	50	32	32.5
CS32160-1.5/1	244	487.5	132	160	280	460	370	50	330	295	250	165	125	99	18	140	100	76	18	50	32	42.5
CS32160-2.2/1	244	487.5	132	160	280	460	370	50	330	295	250	165	125	99	18	140	100	76	18	50	32	46.5
CS32160-1.5/3	244	487.5	132	160	254	460	370	50	330	295	250	165	125	99	18	140	100	76	18	50	32	45.5
CS32160-2.2/3	244	487.5	132	160	254	460	370	50	330	295	250	165	125	99	18	140	100	76	18	50	32	46.5
CS32200-3.0/3	295	546.5	160	180	287	520	420	50	350	315	270	165	125	99	18	140	100	76	18	50	32	61.5
CS32200-4.0/3	295	559.5	160	180	309	520	420	50	350	315	270	165	125	99	18	140	100	76	18	50	32	65.5
CS40125-1.5/3	209	485.5	112	140	234	460	370	50	330	295	250	185	145	118	18	150	110	84	18	65	40	42.3
CS40125-2.2/3	209	485.5	112	140	234	460	370	50	330	295	250	185	145	118	18	150	110	84	18	65	40	46.3
CS40160-3.0/3	244	546.5	132	160	259	520	420	50	350	315	270	185	145	118	18	150	110	84	18	65	40	58.3
CS40160-4.0/3	244	559.5	132	160	281	520	420	50	350	315	270	185	145	118	18	150	110	84	18	65	40	65.3
CS40200-5.5/3	295	643.5	160	180	327	620	500	60	400	365	320	185	145	118	18	150	110	84	18	65	40	98.3
CS40200-7.5/3	295	681.5	160	180	327	620	500	60	400	365	320	185	145	118	18	150	110	84	18	65	40	104.3
CS50125-3.0/3	244	576.5	132	160	259	520	420	50	350	315	270	185	145	118	18	165	125	99	18	65	50	58.5
CS50125-4.0/3	244	589.5	132	160	281	520	420	50	350	315	270	185	145	118	18	165	125	99	18	65	50	65.3
CS50160-5.5/3	244	643.5	160	180	327	620	500	60	400	365	320	185	145	118	18	165	125	99	18	65	50	96.5
CS50160-7.5/3	244	681.5	160	180	327	620	500	60	400	365	320	185	145	118	18	165	125	99	18	65	50	100.5
CS50200-9.2/3	295	688.5	160	200	327	620	500	60	400	365	320	185	145	118	18	165	125	99	18	65	50	112.5
CS50200-11.0/3	295	791.5	160	200	412	700	600	50	450	415	370	185	145	118	18	165	125	99	18	65	50	168.5

