

# CA-CAX

~ 2900 rpm

# 4CA-4CAX

~ 1450 rpm

## Centrifugal Flanged EN 733

Bare shaft centrifugal pumps constructed in compliance with EN 733 standards; widely used in water supplies, pressurisation and fire-fighting systems.



CA-4CA



CAX-4CAX

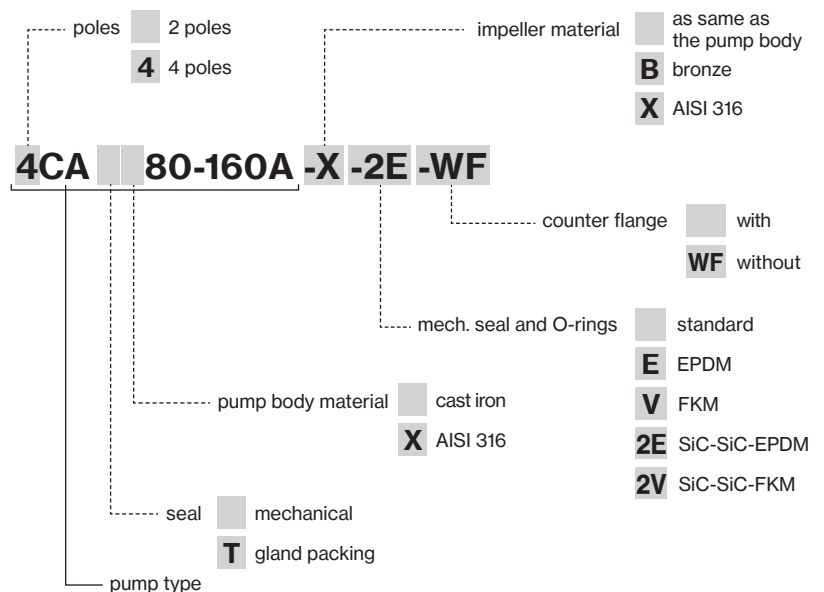


### Construction features

<b>Pump body</b>	cast iron (CA) stainless steel AISI 316 (CAX)
<b>Motor bracket</b>	cast iron
<b>Impeller</b>	cast iron, bronze, steel (CA) stainless steel AISI 316 (CAX)
<b>Seal type</b>	mechanical (CA-CAX) or gland packing graphite impregnated (CAT-CATX)
<b>Pump shaft end</b>	stainless steel AISI 316
<b>Liquid temperature</b>	-10 ÷ +90 °C
<b>Operating pressure</b>	max 10 bar max 14 bar (... -315 ~ 2900 rpm)

### Motor

Available with IE3-IE4 efficiency class motor



# CA-CAX

~ 2900 rpm

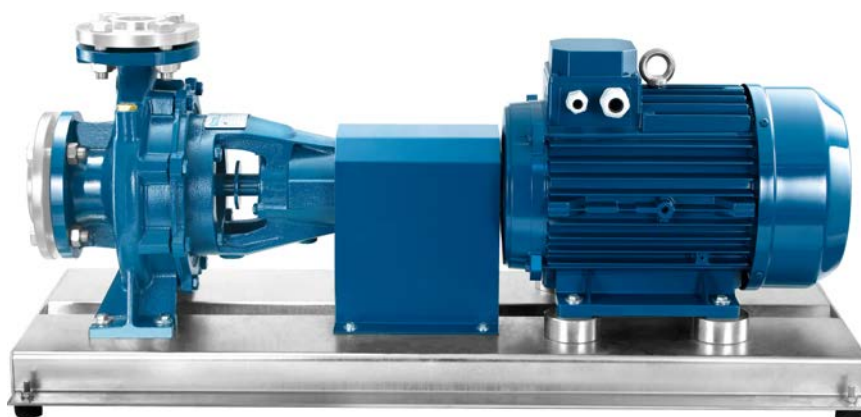
Centrifugal Flanged  
EN 733

# 4CA-4CAX

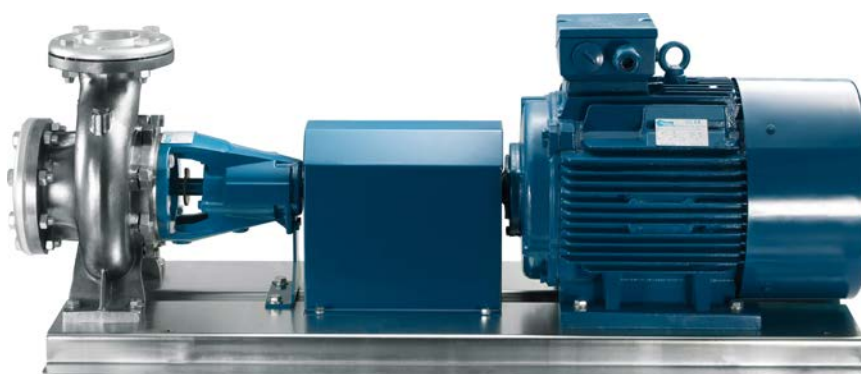
~ 1450 rpm

## Construction versions

The pumps can be fitted next to a motor on a common baseplate, with the pump shaft and the motor shaft connected by a flexible coupling.



**CA-4CA with motor**  
counterflanges supplied separately



**CAX-4CAX with motor**  
counterflanges supplied separately

## Shaft seals versions

The pumps can be provided on request with gland packing instead of mechanical seal.



**CA-CAX-4CA-4CAX**  
mechanical seal



**CAT-CATX-4CAT-4CATX**  
gland packing seal

# CM-CMG-CA-4CA

Centrifugal Flanged  
EN 733

**CM:** Front suction close-coupled centrifugal pumps with close impeller mounted on IE3 motor shaft extension. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

**CMG-CMGX:** Front suction centrifugal pumps connected to IE3 standard motor (stub-shaft construction). Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

**CA-CAX-4CA-4CAX:** Single-stage end-suction centrifugal frame-mounted pumps. Dimensions in accordance with EN 733.

TYPE	2 POLES						4 POLES				
	CM	CMG	CMGX	CA	CAT CAX CATX	Flow rate m <sup>3</sup> /h	Head m	4CA 4CAT	4CAX 4CATX	Flow rate m <sup>3</sup> /h	Head m
32-160C	■	-	-	■	■	6 ÷ 21	22,8 ÷ 14	■	■	3 ÷ 12	5,6 ÷ 2,4
32-160B	■	-	-	■	■	6 ÷ 24	27,7 ÷ 17	■	■	3 ÷ 12	6,7 ÷ 3,8
32-160A	■	-	-	■	■	6 ÷ 27	36,2 ÷ 22,1	■	■	3 ÷ 13,5	9,0 ÷ 5,6
32-200C	■	-	-	■	■	6 ÷ 27	40,3 ÷ 28,7	■	■	3 ÷ 18	9,9 ÷ 2,6
32-200B1	■	-	-	-	-	6 ÷ 27	48 ÷ 37,9	-	-	-	-
32-200B	■	-	-	■	■	6 ÷ 30	48 ÷ 35,4	■	■	3 ÷ 19	12,0 ÷ 4,8
32-200A1	■	-	-	-	-	6 ÷ 30	58,3 ÷ 46,6	-	-	-	-
32-200A	■	-	-	■	■	6 ÷ 33	58,3 ÷ 44,3	■	■	3 ÷ 20	14,7 ÷ 5,8
32-250C	■	-	-	■	■	6 ÷ 27	72 ÷ 61,3	■	■	3 ÷ 19	17,5 ÷ 9,1
32-250B	■	-	-	■	■	7,5 ÷ 27	84 ÷ 73,2	■	■	3 ÷ 20	20,5 ÷ 11,8
32-250A1	■	-	-	-	-	7,5 ÷ 27	93,6 ÷ 85,3	-	-	-	-
32-250A	■	-	-	■	■	7,5 ÷ 27	93,6 ÷ 85,5	■	■	3 ÷ 21	23,1 ÷ 13,2
40-125C	■	-	-	■	■	9 ÷ 36	18,5 ÷ 9,4	■	■	3 ÷ 18	4,5 ÷ 2
40-125B	■	-	-	■	■	9 ÷ 39	23,4 ÷ 13,2	■	■	3 ÷ 21	5,6 ÷ 2,2
40-125A	■	-	-	■	■	9 ÷ 42	27,6 ÷ 16,8	■	■	3 ÷ 24	6,5 ÷ 2,3
40-160B	■	-	-	■	■	9 ÷ 36	29,2 ÷ 20,5	■	■	3 ÷ 24	7,1 ÷ 2,8
40-160A	■	-	-	■	■	9 ÷ 42	34,9 ÷ 23,4	■	■	3 ÷ 24	8,5 ÷ 4,6
40-160AP	■	-	-	■	■	9 ÷ 48	39,8 ÷ 25,3	■	■	3 ÷ 24	9,5 ÷ 5,6
40-200B1	■	-	-	-	-	9 ÷ 39	45,5 ÷ 32,3	-	-	-	-
40-200B	■	-	-	■	■	9 ÷ 42	45,5 ÷ 29,4	■	■	3 ÷ 24	11,0 ÷ 5,0
40-200A1	■	-	-	-	-	9 ÷ 39	56,5 ÷ 44,4	-	-	-	-
40-200A	■	-	-	■	■	9 ÷ 42	56,5 ÷ 41,6	■	■	3 ÷ 24	13,9 ÷ 8,5
40-200AP	■	-	-	■	■	9 ÷ 45	61,4 ÷ 42,2	■	■	3 ÷ 24	14,8 ÷ 8,8
40-250C	■	-	-	■	■	9 ÷ 36	64,4 ÷ 55,4	■	■	3 ÷ 27	15,9 ÷ 5,0
40-250B	■	-	-	■	■	9 ÷ 39	79,9 ÷ 62,1	■	■	3 ÷ 30	18,4 ÷ 5,2
40-250A1	■	-	-	-	-	9 ÷ 42	84,6 ÷ 72,8	-	-	-	-
40-250A	■	-	-	■	■	9 ÷ 45	84,6 ÷ 69	■	■	3 ÷ 33	20,8 ÷ 5,4
40-250BM	■	-	-	■	■	9 ÷ 54	93,2 ÷ 72	■	■	3 ÷ 33	22,7 ÷ 8,0
40-250AM	■	-	-	■	■	9 ÷ 60	103 ÷ 77,5	■	■	3 ÷ 33	24,5 ÷ 11,3
50-125B	■	-	-	■	■	12 ÷ 72	20,6 ÷ 9,2	■	■	9 ÷ 42	5,1 ÷ 1,6
50-125A	■	-	-	■	■	12 ÷ 72	24,3 ÷ 14,2	■	■	9 ÷ 45	6,1 ÷ 2,1
50-160B1	■	-	-	-	-	21 ÷ 66	33,5 ÷ 21,5	-	-	-	-
50-160B	■	-	-	■	■	21 ÷ 72	33,5 ÷ 18,9	■	■	9 ÷ 42	7,8 ÷ 2,6
50-160A1	■	-	-	-	-	21 ÷ 72	39,8 ÷ 27,6	-	-	-	-
50-160A	■	-	-	■	■	21 ÷ 78	39,8 ÷ 25,4	■	■	9 ÷ 48	9,5 ÷ 3,4
50-200C	■	-	-	■	■	24 ÷ 72	49,7 ÷ 28,9	■	■	9 ÷ 42	12,1 ÷ 3,7
50-200B	■	-	-	■	■	24 ÷ 72	54,6 ÷ 35	■	■	9 ÷ 45	13,3 ÷ 3,9
50-200A1	■	-	-	-	-	24 ÷ 78	61,8 ÷ 39,8	-	-	-	-



TYPE	2 POLES							4 POLES			
	CM	CMG	CMGX	CA	CAT CAX CATX	Flow rate	Head	4CA 4CAT	4CAX 4CATX	Flow rate	Head
						m³/h	m			m³/h	m
50-200A	■	-	-	■	■	24 ÷ 78	61,8 ÷ 39,8	■	■	9 ÷ 45	14,9 ÷ 5,6
50-250C1	■	-	-	-	-	27 ÷ 60	68,2 ÷ 56,2	-	-	-	-
50-250C	■	-	-	■	■	27 ÷ 66	68,2 ÷ 52,1	■	■	12 ÷ 45	17,4 ÷ 8
50-250B	■	-	-	■	■	27 ÷ 72	78,4 ÷ 58,5	■	■	12 ÷ 48	19,6 ÷ 8,2
50-250A	■	-	-	■	■	27 ÷ 78	88,3 ÷ 61,8	■	■	12 ÷ 52	21,4 ÷ 8,2
50-315DN	-	-	-	■	-	42 ÷ 132	90,4 ÷ 73,4	-	-	-	-
50-315C	-	-	-	-	-	-	-	■	■	18 ÷ 84	24,7 ÷ 16,8
50-315CN	-	-	-	■	-	42 ÷ 132	105 ÷ 88,7	-	-	-	-
50-315B	-	-	-	-	-	-	-	■	■	18 - 90	31,4 - 21,6
50-315BN	-	-	-	■	-	42 ÷ 144	124,3 ÷ 103,5	-	-	-	-
50-315A	-	-	-	-	-	-	-	■	■	18 - 96	37,2 - 25,1
50-315AN	-	-	-	■	-	42 ÷ 144	146,9 ÷ 125,8	-	-	-	-
65-125B1	■	-	-	-	-	30 ÷ 108	20,6 ÷ 15	-	-	-	-
65-125B	■	-	-	■	■	30 ÷ 120	20,6 ÷ 13,1	■	■	18 ÷ 66	5 ÷ 2,4
65-125A1	■	-	-	-	-	30 ÷ 120	25,2 ÷ 18,8	-	-	-	-
65-125A	■	-	-	■	■	30 ÷ 132	25,2 ÷ 16,8	■	■	18 ÷ 72	6,4 ÷ 3,4
65-160C	■	-	-	■	■	42 ÷ 144	30,6 ÷ 13,9	■	■	24 ÷ 78	7,3 ÷ 2,7
65-160B	■	-	-	■	■	42 ÷ 144	35,1 ÷ 20,4	■	■	24 ÷ 78	8,5 ÷ 3,9
65-160A1	■	-	-	-	-	42 ÷ 138	42,5 ÷ 31,7	-	-	-	-
65-160A	■	-	-	■	■	42 ÷ 144	42,5 ÷ 30,9	■	■	24 ÷ 8	10,4 ÷ 5,7
65-200C1	■	-	-	-	-	54 ÷ 132	46,1 ÷ 28,9	-	-	-	-
65-200C	■	-	-	■	■	54 ÷ 138	46,1 ÷ 26,8	■	■	27 ÷ 78	11,2 ÷ 5
65-200B	■	-	-	■	■	54 ÷ 144	53,9 ÷ 34,6	■	■	27 ÷ 84	13 ÷ 5,9
65-200A	■	-	-	■	■	54 ÷ 144	61,8 ÷ 44,4	■	■	27 ÷ 90	14,9 ÷ 6,4
65-250B	■	-	-	■	■	54 ÷ 144	80,6 ÷ 47,3	■	■	27 ÷ 84	20 ÷ 7
65-250A	■	-	-	■	■	54 ÷ 150	91,6 ÷ 57,9	■	■	30 ÷ 90	22,3 ÷ 7,8
65-315CM	-	-	-	-	-	-	-	■	■	27 ÷ 126	23,5 ÷ 13,9
65-315CN	-	-	-	■	-	54 ÷ 180	96,5 ÷ 80,8	-	-	-	-
65-315BM	-	-	-	-	-	-	-	■	■	27 ÷ 132	28,9 ÷ 17,2
65-315BN	-	-	-	■	-	54 ÷ 195	117,9 ÷ 96,3	-	-	-	-
65-315AM	-	-	-	-	-	-	-	■	■	27 ÷ 138	34 ÷ 18,2
65-315AN	-	-	-	■	-	54 ÷ 210	138,8 ÷ 110,4	-	-	-	-
80-160E	■	-	-	■	■	66 ÷ 168	22,9 ÷ 13,7	■	■	24 ÷ 96	5,7 ÷ 2,2
80-160D	■	-	-	■	■	66 ÷ 180	27,3 ÷ 16,4	■	■	27 ÷ 102	6,8 ÷ 2,6
80-160C1	■	-	-	-	-	66 ÷ 195	30,9 ÷ 18,4	-	-	-	-
80-160C	■	-	-	■	■	66 ÷ 195	30,9 ÷ 18,4	■	■	30 ÷ 108	7,4 ÷ 3,1
80-160B	■	-	-	■	■	66 ÷ 210	35,9 ÷ 22	■	■	33 ÷ 120	8,9 ÷ 3,5
80-160A	■	-	-	■	■	66 ÷ 225	40,5 ÷ 23,9	■	■	36 ÷ 132	9,8 ÷ 3,8
80-200B	■	-	-	■	■	72 ÷ 225	54,5 ÷ 38,5	■	■	42 ÷ 132	13,1 ÷ 7,1
80-200A	■	-	-	■	■	72 ÷ 240	61,7 ÷ 43,9	■	■	42 ÷ 144	14,7 ÷ 7,5
80-250B	-	■	■	■	■	96 ÷ 225	80 ÷ 58,8	■	■	42 ÷ 132	19,2 ÷ 11,1
80-250A	-	■	■	■	■	96 ÷ 240	92,8 ÷ 65,2	■	■	42 ÷ 144	22,9 ÷ 12,6
80-315B	-	-	-	-	-	-	-	■	■	42 ÷ 150	28,3 ÷ 19,9
80-315BN	-	-	-	■	-	78 ÷ 255	112,4 ÷ 90,8	-	-	-	-
80-315A	-	-	-	-	-	-	-	■	■	42 ÷ 168	35 ÷ 23,7
80-315AN	-	-	-	■	-	78 ÷ 255	141,4 ÷ 118,5	-	-	-	-
100-160B	■	-	-	-	-	96 ÷ 330	40,7 ÷ 25,7	-	-	-	-
100-160A	■	-	-	-	-	96 ÷ 330	45,1 ÷ 31,9	-	-	-	-
100-200D	-	-	-	■	■	108 ÷ 300	43,1 ÷ 26,6	■	■	48 ÷ 168	10,8 ÷ 4,8
100-200C	-	-	-	■	■	108 ÷ 330	48,4 ÷ 28,1	■	■	48 ÷ 168	12 ÷ 6,3
100-200B	-	■	■	■	■	108 ÷ 330	56,8 ÷ 39,7	■	■	48 ÷ 180	13,6 ÷ 7,8
100-200A	-	■	■	■	■	108 ÷ 360	62,2 ÷ 42,5	■	■	48 ÷ 192	15,4 ÷ 9,1
100-250E	-	-	-	-	-	-	-	■	■	60 ÷ 180	16,9 ÷ 11,4
100-250D	-	-	-	-	-	-	-	■	■	60 ÷ 192	19,6 ÷ 12,7

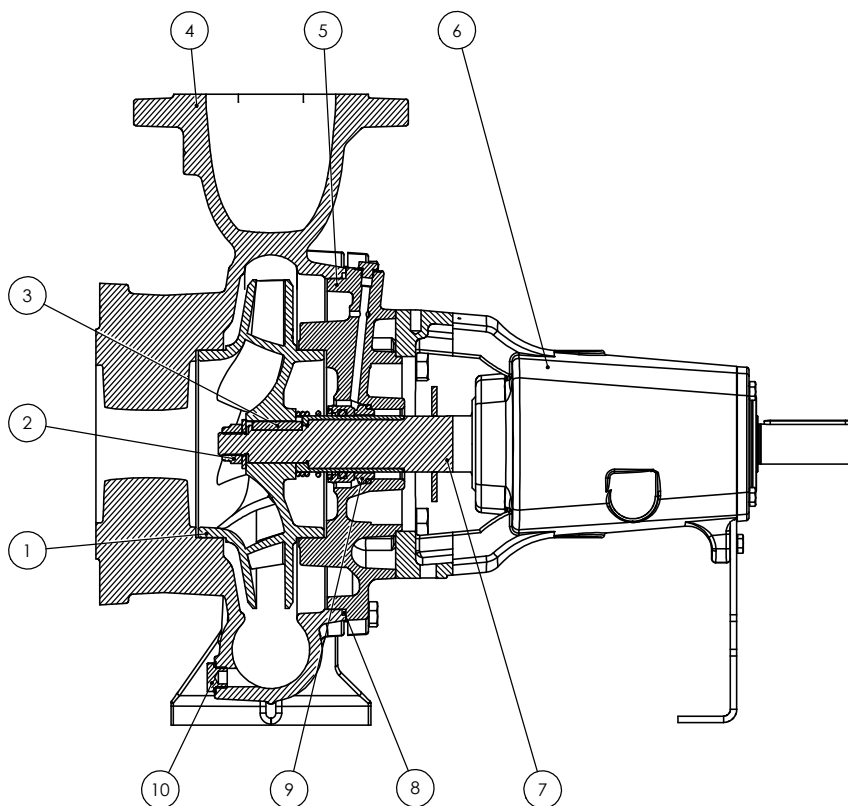


TYPE	2 POLES							4 POLES			
	CM	CMG	CMGX	CA	CAT CAX CATX	Flow rate	Head	4CA 4CAT	4CAX 4CATX	Flow rate	Head
						m <sup>3</sup> /h	m			m <sup>3</sup> /h	m
100-250C	-	■	■	■	■	120 ÷ 300	73,2 ÷ 61	-	-	-	-
100-250B	-	■	■	■	■	120 ÷ 330	83,7 ÷ 67,6	-	-	-	-
100-250A	-	■	■	■	■	120 ÷ 360	93,9 ÷ 73,2	■	■	60 ÷ 204	22,3 ÷ 13,8
100-315B	-	-	-	-	-	-	-	■	■	72 ÷ 216	31,4 ÷ 17,9
100-315A	-	-	-	-	-	-	-	■	■	72 ÷ 216	36,5 ÷ 23,1
100-400C	-	-	-	-	-	-	-	■	■	84 ÷ 228	40,6 ÷ 25,8
100-400B	-	-	-	-	-	-	-	■	■	84 ÷ 240	48,7 ÷ 31,6
100-400A	-	-	-	-	-	-	-	■	■	84 ÷ 252	56 ÷ 36,7
125-250B	-	-	-	-	-	-	-	■	■	102 ÷ 252	20,2 ÷ 11,1
125-250A	-	-	-	-	-	-	-	■	■	102 ÷ 276	24 ÷ 14,7
125-315C	-	-	-	-	-	-	-	■	■	120 ÷ 348	25,8 ÷ 15,7
125-315B	-	-	-	-	-	-	-	■	■	120 ÷ 372	33 ÷ 22,2
125-315A	-	-	-	-	-	-	-	■	■	120 ÷ 372	39,6 ÷ 28,2
125-400C	-	-	-	-	-	-	-	■	■	120 ÷ 372	47,6 ÷ 33,8
125-400B	-	-	-	-	-	-	-	■	■	120 ÷ 396	54,5 ÷ 39,1
125-400A	-	-	-	-	-	-	-	■	■	120 ÷ 396	59,5 ÷ 45
150-315D	-	-	-	-	-	-	-	■	■	144 ÷ 444	28,3 ÷ 19,6
150-315C	-	-	-	-	-	-	-	■	■	144 ÷ 492	32,2 ÷ 21,8
150-315B	-	-	-	-	-	-	-	■	■	144 ÷ 540	36,3 ÷ 23,6
150-315A	-	-	-	-	-	-	-	■	■	144 ÷ 564	41 ÷ 27,2
150-400C	-	-	-	-	-	-	-	■	■	168 ÷ 564	47,8 ÷ 28,7
150-400B	-	-	-	-	-	-	-	■	■	168 ÷ 588	54,4 ÷ 34,3
150-400A	-	-	-	-	-	-	-	■	■	168 ÷ 612	60,3 ÷ 39,8
<b>Not envisaged in the EN 733 standard</b>											
200-315D	-	-	-	-	-	-	-	■	■	200 ÷ 800	21,7 ÷ 12,5
200-315C	-	-	-	-	-	-	-	■	■	200 ÷ 850	26,6 ÷ 14,6
200-315B	-	-	-	-	-	-	-	■	■	200 ÷ 900	33,4 ÷ 16,7
200-315A	-	-	-	-	-	-	-	■	■	200 ÷ 900	35,9 ÷ 19,8
200-400C	-	-	-	-	-	-	-	■	■	200 ÷ 800	44,1 ÷ 31,5
200-400B	-	-	-	-	-	-	-	■	■	200 ÷ 850	50,8 ÷ 36,6
200-400A	-	-	-	-	-	-	-	■	■	200 ÷ 900	58,5 ÷ 44
250-315C	-	-	-	-	-	-	-	■	■	250 ÷ 1100	25,5 ÷ 16,8
250-315B	-	-	-	-	-	-	-	■	■	250 ÷ 1170	33 ÷ 19
250-315A	-	-	-	-	-	-	-	■	■	250 ÷ 1200	35 ÷ 20
250-400D	-	-	-	-	-	-	-	■	■	250 ÷ 1300	39,9 ÷ 24,3
250-400C	-	-	-	-	-	-	-	■	■	250 ÷ 1400	45,8 ÷ 27,4
250-400B	-	-	-	-	-	-	-	■	■	250 ÷ 1500	51,7 ÷ 30,3
250-400A	-	-	-	-	-	-	-	■	■	250 ÷ 1600	57,4 ÷ 31,7



# CA-4CA Series

## Models list and materials



POS. N.	DENOMINATION	VERSION	MATERIAL	REFERENCE STANDARDS	
				EUROPE	USA
1	<b>Impeller</b>	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		B	Bronze	CuSn10-C (CC480K)	UNS C90700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
2	<b>Impeller lock nut and washer</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
3	<b>Impeller key</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
4	<b>Volute casing</b>	Up to 80-200	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		From 80-250	Cast iron G25	GJL-250 (JL1040)	ASTM Class 35
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
5	<b>Casing cover</b>	Standard	Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
6	<b>Bracket</b>		Cast iron G20	GJL-200 (JL1030)	ASTM Class 30
7	<b>Shaft</b>		Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316
8	<b>O-ring</b>	Standard	NBR		
		E	EPDM		
		V	FKM		
9	<b>Mechanical seal</b>		(Search for the material in the mechanical seal table)		
10	<b>Fill and drain plugs</b>	Standard	Brass	CU ZN 40 PB2 UNI 5705/65	C37700
		X	Stainless steel	X5CrNiMo17-12-2/ 1.4401	AISI 316



**CA-CAX ~ EN 733**

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	66	72	78
			0	200	250	300	350	400	450	500	550	600	650	700	750	800	900	1000	1100	1200	1300
			H (m)																		
			pump input power (kW)																		
50-125B	3	100L	20,0 <u>1,15</u>	20,6 <u>1,65</u>	20,6 <u>1,79</u>	20,4 <u>1,93</u>	20,3 <u>2,07</u>	20,1 <u>2,19</u>	19,9 <u>2,28</u>	19,6 <u>2,37</u>	19,2 <u>2,49</u>	18,7 <u>2,63</u>	18,2 <u>2,75</u>	17,6 <u>2,84</u>	17,0 <u>2,92</u>	16,4 <u>3,00</u>	15,0 <u>3,13</u>	13,2 <u>3,21</u>	11,3 <u>3,28</u>	9,2 <u>3,31</u>	
50-125A	4	112M	23,7 <u>1,50</u>	24,3 <u>2,02</u>	24,3 <u>2,19</u>	24,2 <u>2,35</u>	24,1 <u>2,51</u>	23,9 <u>2,66</u>	23,7 <u>2,81</u>	23,3 <u>2,94</u>	23,0 <u>3,07</u>	22,6 <u>3,21</u>	22,1 <u>3,34</u>	21,7 <u>3,47</u>	21,2 <u>3,59</u>	20,7 <u>3,69</u>	19,6 <u>3,88</u>	18,2 <u>4,03</u>	16,4 <u>4,15</u>	14,2 <u>4,23</u>	
50-160B	5,5	132S	32,1 <u>1,92</u>				33,5 <u>3,60</u>	33,4 <u>3,84</u>	33,1 <u>4,06</u>	32,7 <u>4,28</u>	32,2 <u>4,48</u>	31,6 <u>4,67</u>	31,0 <u>4,84</u>	30,2 <u>4,99</u>	29,1 <u>5,12</u>	28,3 <u>5,24</u>	26,2 <u>5,45</u>	23,9 <u>5,60</u>	21,5 <u>5,70</u>	18,9 <u>5,75</u>	
50-160A	7,5	132S	38,1 <u>2,49</u>				39,8 <u>4,44</u>	39,8 <u>4,74</u>	39,7 <u>5,03</u>	39,5 <u>5,30</u>	39,2 <u>5,56</u>	38,8 <u>5,79</u>	38,3 <u>6,00</u>	37,7 <u>6,21</u>	36,9 <u>6,21</u>	36,0 <u>6,60</u>	34,2 <u>6,93</u>	32,2 <u>7,20</u>	29,7 <u>7,45</u>	27,4 <u>7,66</u>	25,4 <u>7,95</u>
50-200C	11	160M	48,2 <u>3,13</u>				49,7 <u>6,11</u>	49,2 <u>6,44</u>	48,5 <u>6,75</u>	47,7 <u>7,06</u>	46,9 <u>7,35</u>	45,9 <u>7,62</u>	44,9 <u>7,88</u>	43,7 <u>8,11</u>	42,6 <u>8,31</u>	40,0 <u>8,67</u>	36,0 <u>9,02</u>	32,3 <u>9,26</u>	28,9 <u>9,43</u>		
50-200B	11	160M	53,1 <u>3,44</u>				54,6 <u>6,75</u>	54,1 <u>7,14</u>	53,5 <u>7,52</u>	52,9 <u>7,86</u>	52,2 <u>8,17</u>	51,4 <u>8,47</u>	50,4 <u>8,78</u>	49,3 <u>9,09</u>	48,1 <u>9,34</u>	45,5 <u>9,76</u>	42,7 <u>10,15</u>	38,8 <u>10,47</u>	35,0 <u>10,73</u>		
50-200A	15	160M	59,9 <u>4,38</u>				61,8 <u>7,92</u>	61,5 <u>8,36</u>	61,0 <u>8,78</u>	60,4 <u>9,20</u>	59,7 <u>9,62</u>	58,8 <u>10,02</u>	58,0 <u>10,38</u>	57,1 <u>10,73</u>	56,0 <u>11,05</u>	53,6 <u>11,65</u>	50,8 <u>12,17</u>	47,8 <u>12,62</u>	44,4 <u>13,01</u>	39,8 <u>13,35</u>	
50-250C	15	160M	69,2 <u>5,27</u>				68,2 <u>10,08</u>	67,7 <u>10,60</u>	67,0 <u>11,11</u>	66,3 <u>11,60</u>	65,6 <u>12,07</u>	64,7 <u>12,52</u>	63,8 <u>12,94</u>	62,8 <u>13,33</u>	59,9 <u>14,14</u>	56,2 <u>14,94</u>	52,1 <u>15,59</u>				
50-250B	18,5	160L	78,8 <u>6,33</u>				78,4 <u>11,72</u>	78,0 <u>12,33</u>	77,6 <u>12,92</u>	77,0 <u>13,49</u>	76,1 <u>14,03</u>	75,1 <u>14,55</u>	74,0 <u>15,06</u>	72,9 <u>15,53</u>	70,3 <u>16,44</u>	66,9 <u>17,34</u>	62,9 <u>18,18</u>	58,5 <u>18,96</u>			
50-250A	22	180M	88,5 <u>7,43</u>				88,3 <u>13,20</u>	88,1 <u>13,87</u>	87,7 <u>14,55</u>	87,2 <u>15,22</u>	86,6 <u>15,88</u>	85,8 <u>16,51</u>	84,8 <u>17,13</u>	83,8 <u>17,74</u>	81,4 <u>18,90</u>	78,5 <u>19,99</u>	75,0 <u>21,00</u>	70,2 <u>21,94</u>	64,8 <u>22,82</u>		

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)															
			0	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144
			0	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400
			H (m)															
			pump input power (kW)															
50-315DN <small>No EN 733; no CAT, CAX, CATX</small>	37	200L	87,8 <u>11,19</u>	90,4 <u>20,11</u>	90,3 <u>20,81</u>	90,2 <u>21,52</u>	89,9 <u>22,91</u>	89,2 <u>24,19</u>	88,2 <u>25,41</u>	87,1 <u>26,58</u>	86,0 <u>27,71</u>	84,8 <u>28,81</u>	82,4 <u>30,91</u>	79,9 <u>32,92</u>	76,9 <u>34,81</u>	73,4 <u>36,56</u>		
50-315CN <small>No EN 733; no CAT, CAX, CATX</small>	45	225M	101,8 <u>13,32</u>	105,0 <u>23,97</u>	104,9 <u>24,79</u>	104,8 <u>25,63</u>	104,3 <u>27,25</u>	103,7 <u>28,77</u>	102,7 <u>30,21</u>	101,5 <u>31,55</u>	100,3 <u>32,85</u>	99,1 <u>34,15</u>	96,7 <u>36,68</u>	94,1 <u>39,06</u>	91,3 <u>41,26</u>	88,7 <u>43,26</u>		
50-315BN <small>No EN 733; no CAT, CAX, CATX</small>	55	250M	122,3 <u>17,44</u>	124,3 <u>29,30</u>	124,4 <u>30,29</u>	124,5 <u>31,30</u>	124,7 <u>33,28</u>	124,4 <u>35,10</u>	123,6 <u>36,80</u>	122,5 <u>38,35</u>	121,3 <u>39,85</u>	119,9 <u>41,39</u>	116,6 <u>44,41</u>	113,3 <u>47,32</u>	110,1 <u>50,01</u>	107,1 <u>52,39</u>	105,4 <u>53,60</u>	103,5 <u>54,83</u>
50-315AN <small>No EN 733; no CAT, CAX, CATX</small>	75	280S	146,1 <u>22,75</u>	146,9 <u>35,89</u>	147,1 <u>37,03</u>	147,3 <u>38,21</u>	147,4 <u>40,53</u>	147,3 <u>42,66</u>	146,9 <u>44,71</u>	146,3 <u>46,72</u>	145,3 <u>48,67</u>	144,1 <u>50,59</u>	141,2 <u>54,26</u>	137,9 <u>57,67</u>	134,1 <u>60,84</u>	130,0 <u>63,78</u>	127,9 <u>65,11</u>	125,8 <u>66,34</u>

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																				
			0	30	33	36	39	42	45	48	54	60	66	72	78	84	96	108	120	132	138	144	150
			0	500	550	600	650	700	750	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500
			H (m)																				
			pump input power (kW)																				
65-125B	5,5	132S	19,7 <u>2,07</u>	20,6 <u>3,36</u>	20,5 <u>3,49</u>	20,4 <u>3,62</u>	20,4 <u>3,75</u>	20,3 <u>3,87</u>	20,2 <u>3,99</u>	20,2 <u>4,11</u>	20,0 <u>4,34</u>	19,7 <u>4,54</u>	19,3 <u>4,71</u>	18,8 <u>4,87</u>	18,2 <u>5,03</u>	17,5 <u>5,17</u>	16,3 <u>5,45</u>	15,0 <u>5,67</u>	13,1 <u>5,84</u>				
65-125A	7,5	132S	24,6 <u>2,95</u>	25,2 <u>4,37</u>	25,2 <u>4,52</u>	25,1 <u>4,68</u>	25,1 <u>4,83</u>	25,0 <u>4,98</u>	24,9 <u>5,13</u>	24,9 <u>5,29</u>	24,7 <u>5,60</u>	24,5 <u>5,89</u>	24,2 <u>6,16</u>	23,9 <u>6,41</u>	23,5 <u>6,65</u>	23,0 <u>6,86</u>	22,0 <u>7,25</u>	20,6 <u>7,55</u>	18,8 <u>7,77</u>	16,8 <u>7,93</u>			
65-160C	11	160M	28,9 <u>2,67</u>				30,6 <u>5,52</u>	30,5 <u>5,71</u>	30,3 <u>5,90</u>	30,0 <u>6,26</u>	29,6 <u>6,60</u>	29,1 <u>6,93</u>	28,5 <u>7,23</u>	27,9 <u>7,51</u>	27,2 <u>7,77</u>	25,3 <u>8,26</u>	22,9 <u>8,64</u>	20,2 <u>8,92</u>	17,5 <u>9,11</u>	16,0 <u>9,17</u>	13,9 <u>9,19</u>		
65-160B	11	160M	33,2 <u>3,37</u>				35,1 <u>6,51</u>	35,0 <u>6,74</u>	34,9 <u>6,95</u>	34,6 <u>7,37</u>	34,3 <u>7,77</u>	33,8 <u>8,17</u>	33,3 <u>8,56</u>	32,8 <u>8,91</u>	32,1 <u>9,24</u>	30,4 <u>9,85</u>	28,2 <u>10,38</u>	25,5 <u>10,82</u>	22,5 <u>11,17</u>	21,4 <u>11,34</u>	20,4 <u>11,49</u>		
65-160A	15	160M	40,1 <u>4,54</u>				42,5 <u>8,31</u>	42,5 <u>8,59</u>	42,5 <u>8,86</u>	42,3 <u>9,37</u>	42,1 <u>9,86</u>	41,8 <u>10,35</u>	41,4 <u>10,85</u>	41,0 <u>11,32</u>	40,4 <u>11,77</u>	38,9 <u>12,65</u>	37,1 <u>13,46</u>	35,3 <u>14,14</u>	32,8 <u>14,79</u>	31,7 <u>15,14</u>	30,9 <u>15,52</u>		
65-200C	15	160M	44,4 <u>4,38</u>							46,1 <u>10,30</u>	45,4 <u>10,87</u>	44,7 <u>11,44</u>	44,0 <u>12,00</u>	43,2 <u>12,52</u>	42,4 <u>12,98</u>	40,3 <u>13,76</u>	37,5 <u>14,36</u>	33,7 <u>14,89</u>	28,9 <u>15,27</u>	26,8 <u>15,43</u>			
65-200B	18,5	160L	51,7 <u>5,71</u>							53,9 <u>12,58</u>	53,4 <u>13,25</u>	52,7 <u>13,89</u>	52,0 <u>14,51</u>	51,3 <u>15,12</u>	50,4 <u>15,66</u>	48,6 <u>16,56</u>	45,9 <u>17,56</u>	43,0 <u>18,37</u>	39,4 <u>18,96</u>	37,1 <u>19,20</u>	34,6 <u>19,42</u>		
65-200A	22	180M	60,3 <u>7,25</u>							61,8 <u>14,56</u>	61,4 <u>15,38</u>	61,0 <u>16,18</u>	60,4 <u>16,93</u>	59,8 <u>17,64</u>	59,1 <u>18,33</u>	57,1 <u>19,66</u>	54,6 <u>20,84</u>	51,6 <u>21,83</u>	48,3 <u>22,73</u>	46,5 <u>23,10</u>	44,4 <u>23,41</u>		
65-250B	30	200L	80,6 <u>9,16</u>							80,6 <u>19,79</u>	79,5 <u>20,77</u>	78,4 <u>21,74</u>	77,1 <u>22,72</u>	75,7 <u>23,63</u>	74,1 <u>24,37</u>	70,4 <u>25,59</u>	66,1 <u>26,73</u>	61,0 <u>27,55</u>	54,7 <u>28,09</u>	51,0 <u>28,27</u>	47,3 <u>28,38</u>		
65-250A	37	200L	91,6 <u>11,32</u>							91,6 <u>23,01</u>	90,8 <u>24,18</u>	89,8 <u>25,33</u>	88,6 <u>26,47</u>	87,4 <u>27,58</u>	85,9 <u>28,55</u>	82,5 <u>30,14</u>	77,8 <u>31,64</u>	72,8 <u>32,77</u>	67,4 <u>33,54</u>	64,3 <u>33,85</u>	60,8 <u>34,09</u>	57,9 <u>34,25</u>	



TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																			
			0	54	60	66	72	78	84	96	108	120	132	138	144	150	156	168	180	195	210	
			0	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2500	2600	2800	3000	3250	3500	
		kW	H (m)																			
			pump input power (kW)																			
65-315CN No CAT, CAX, CATX	55	250M	93,9	96,5	96,4	96,3	96,0	95,6	95,1	93,8	92,3	90,7	89,1	88,3	87,5	86,5	85,5	83,2	80,8			
			<u>15,58</u>	<u>26,64</u>	<u>27,96</u>	<u>29,26</u>	<u>30,48</u>	<u>31,67</u>	<u>32,88</u>	<u>35,28</u>	<u>37,55</u>	<u>39,76</u>	<u>41,99</u>	<u>43,09</u>	<u>44,18</u>	<u>45,24</u>	<u>46,28</u>	<u>48,31</u>	<u>50,27</u>			
65-315BN No CAT, CAX, CATX	75	280S	116,5	117,9	117,8	117,7	117,4	117,0	116,4	114,9	113,3	111,4	109,4	108,3	107,2	106,0	104,9	102,5	99,9	96,3		
			<u>21,16</u>	<u>34,28</u>	<u>35,82</u>	<u>37,35</u>	<u>38,80</u>	<u>40,26</u>	<u>41,84</u>	<u>45,05</u>	<u>47,88</u>	<u>50,51</u>	<u>53,05</u>	<u>54,27</u>	<u>55,48</u>	<u>56,64</u>	<u>57,76</u>	<u>59,94</u>	<u>62,26</u>	<u>65,43</u>		
65-315AN No CAT, CAX, CATX	90	280M	138,2	138,8	138,5	138,1	137,6	137,0	136,4	135,0	133,5	131,7	129,5	128,3	127,0	125,8	124,5	121,8	118,8	114,8	110,4	
			<u>26,69</u>	<u>43,17</u>	<u>45,02</u>	<u>46,88</u>	<u>48,78</u>	<u>50,67</u>	<u>52,51</u>	<u>56,09</u>	<u>59,51</u>	<u>62,82</u>	<u>66,08</u>	<u>67,67</u>	<u>69,20</u>	<u>70,68</u>	<u>72,10</u>	<u>74,81</u>	<u>77,32</u>	<u>80,16</u>	<u>83,11</u>	

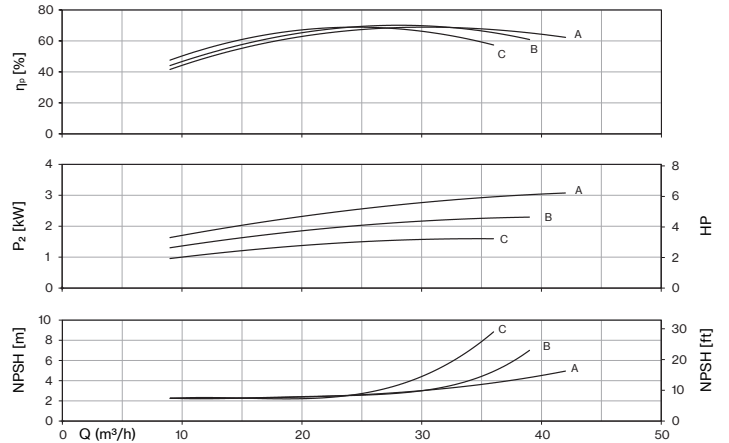
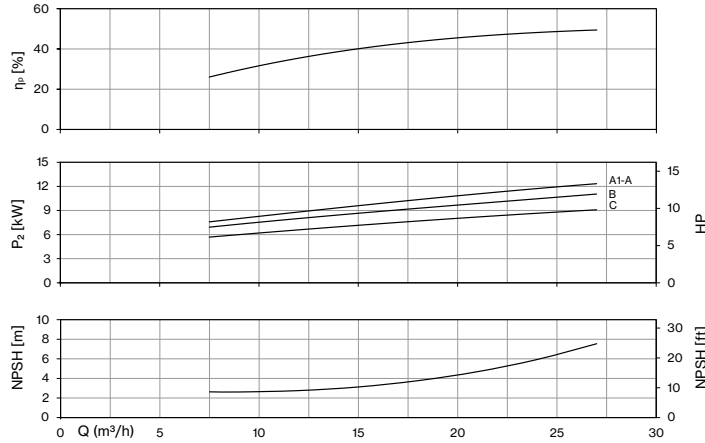
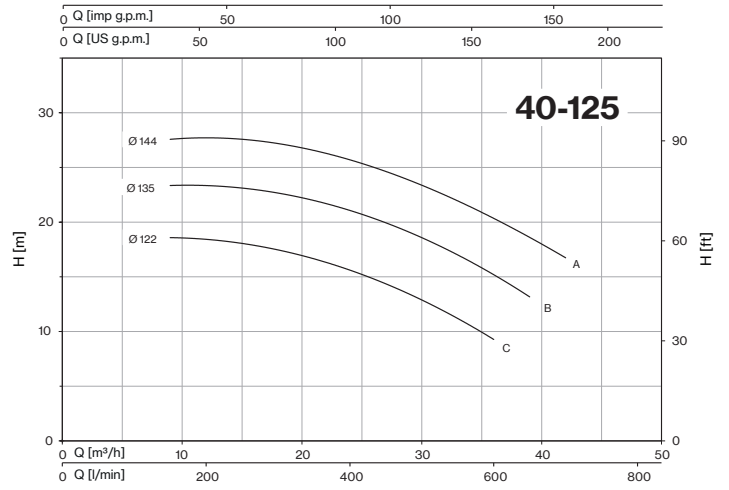
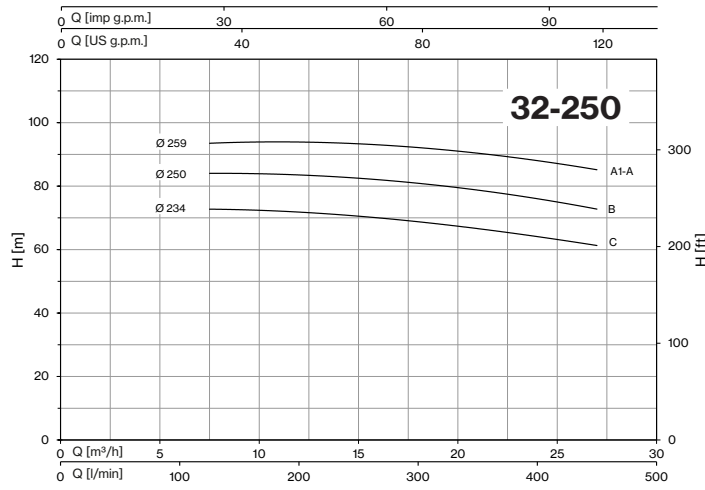
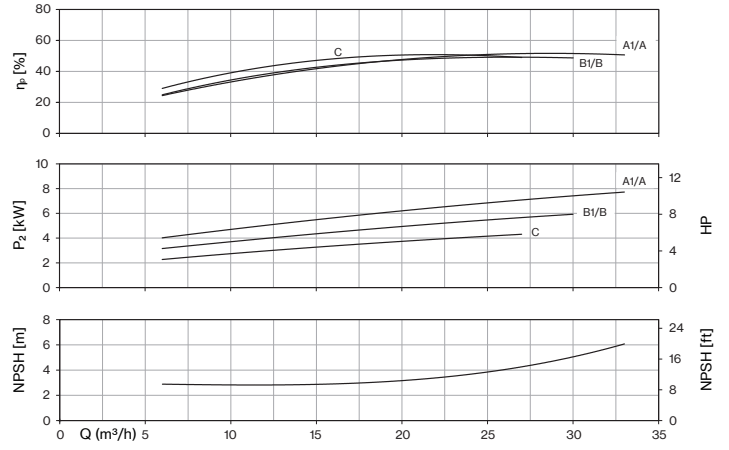
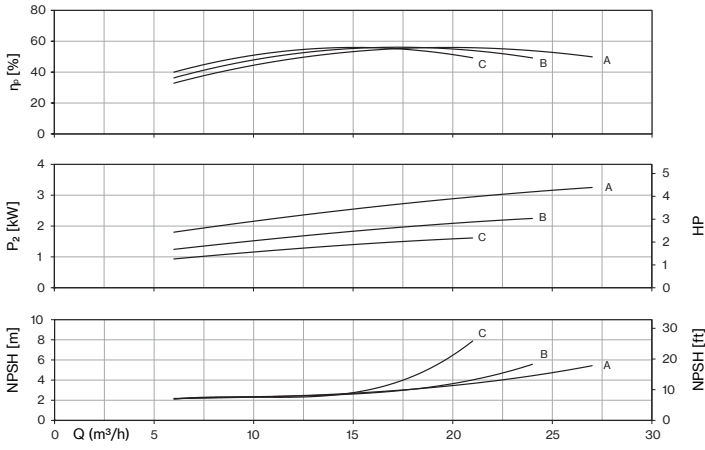
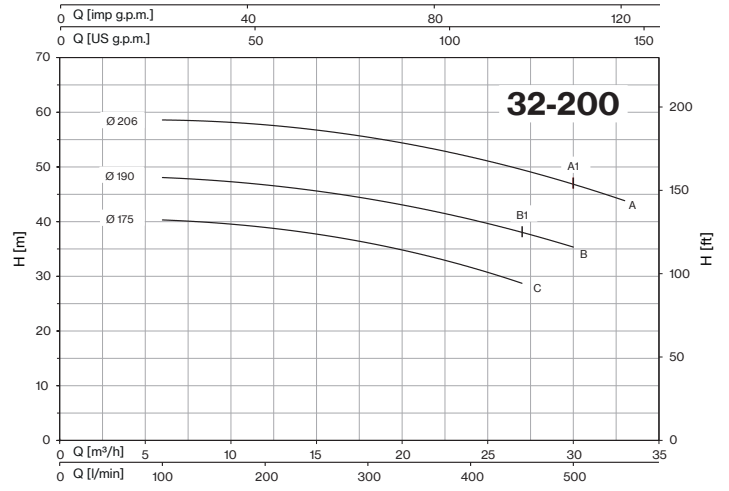
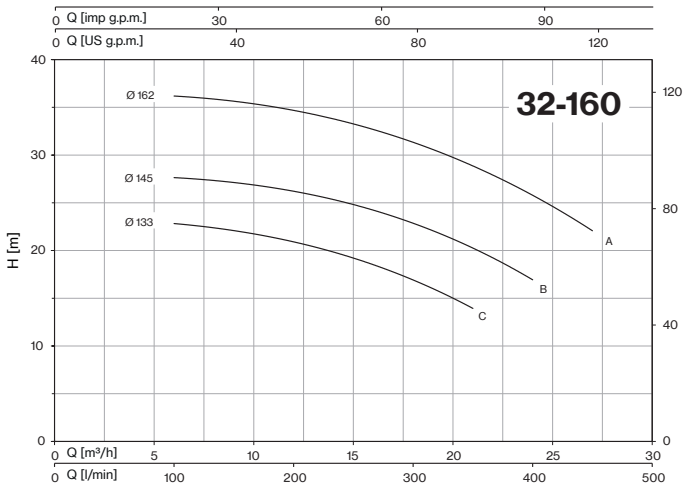
TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																					
			0	66	72	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240				
			0	1100	1200	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000				
		kW	H (m)																					
			pump input power (kW)																					
80-160E	11	160M	21,5	22,9	22,5	22,1	21,6	20,8	19,9	18,9	17,7	17,2	16,6	15,3	13,7									
			<u>3,48</u>	<u>6,43</u>	<u>6,65</u>	<u>6,86</u>	<u>7,07</u>	<u>7,45</u>	<u>7,76</u>	<u>8,05</u>	<u>8,38</u>	<u>8,52</u>	<u>8,65</u>	<u>8,84</u>	<u>8,88</u>									
80-160D	11	160M	25,4	27,3	27,0	26,6	26,3	25,4	24,5	23,5	22,4	21,8	21,2	19,9	18,3	16,4								
			<u>4,16</u>	<u>7,74</u>	<u>8,01</u>	<u>8,27</u>	<u>8,53</u>	<u>9,03</u>	<u>9,46</u>	<u>9,79</u>	<u>10,14</u>	<u>10,32</u>	<u>10,49</u>	<u>10,76</u>	<u>10,95</u>	<u>11,07</u>								
80-160C	15	160M	29,0	30,9	30,7	30,4	30,1	29,4	28,5	27,4	26,3	25,8	25,3	24,1	22,5	20,7	18,4							
			<u>4,74</u>	<u>8,66</u>	<u>8,98</u>	<u>9,29</u>	<u>9,59</u>	<u>10,22</u>	<u>10,85</u>	<u>11,38</u>	<u>11,85</u>	<u>12,06</u>	<u>12,25</u>	<u>12,59</u>	<u>12,85</u>	<u>13,05</u>	<u>13,21</u>							
80-160B	18,5	160L	33,6	35,9	35,7	35,4	35,2	34,5	33,7	32,9	32,0	31,6	31,1	30,0	28,6	27,0	24,5	22,0						
			<u>6,28</u>	<u>10,61</u>	<u>10,94</u>	<u>11,25</u>	<u>11,57</u>	<u>12,25</u>	<u>12,99</u>	<u>13,69</u>	<u>14,33</u>	<u>14,62</u>	<u>14,90</u>	<u>15,38</u>	<u>15,75</u>	<u>16,04</u>	<u>16,35</u>	<u>16,57</u>						
80-160A	22,5	180M	38,0	40,5	40,4	40,2	40,1	39,6	39,1	38,4	37,5	37,1	36,6	35,4	34,1	32,6	30,4	28,3	23,9					
			<u>6,82</u>	<u>12,04</u>	<u>12,50</u>	<u>12,96</u>	<u>13,42</u>	<u>14,34</u>	<u>15,23</u>	<u>16,05</u>	<u>16,81</u>	<u>17,19</u>	<u>17,57</u>	<u>18,29</u>	<u>18,86</u>	<u>19,34</u>	<u>19,84</u>	<u>20,38</u>	<u>20,28</u>					
80-200B	30	200L	50,4				54,5	53,9	53,2	52,3	51,3	50,7	50,2	48,9	47,4	45,8	43,4	40,9	38,5					
			<u>8,89</u>				<u>18,00</u>	<u>19,22</u>	<u>20,56</u>	<u>22,05</u>	<u>23,32</u>	<u>23,79</u>	<u>24,21</u>	<u>25,06</u>	<u>26,03</u>	<u>26,97</u>	<u>27,97</u>	<u>28,81</u>	<u>29,48</u>					
80-200A	37	200L	57,3				61,7	61,3	60,6	59,4	58,2	57,8	57,5	56,8	55,4	53,7	51,5	49,1	46,6	43,9				
			<u>10,32</u>				<u>21,15</u>	<u>22,80</u>	<u>24,43</u>	<u>26,13</u>	<u>27,62</u>	<u>28,17</u>	<u>28,57</u>	<u>29,28</u>	<u>30,39</u>	<u>31,67</u>	<u>32,98</u>	<u>34,05</u>	<u>34,94</u>	<u>35,68</u>				
80-250B	45	225M	77,2				80,0	79,0	77,5	75,3	74,2	73,1	71,0	69,0	67,0	64,5	61,8	58,8						
			<u>14,01</u>				<u>30,93</u>	<u>32,60</u>	<u>34,34</u>	<u>36,13</u>	<u>37,02</u>	<u>37,86</u>	<u>39,38</u>	<u>40,78</u>	<u>42,10</u>	<u>43,60</u>	<u>44,94</u>	<u>46,15</u>						
80-250A	55	250M	90,0				92,8	91,1	89,3	87,4	86,4	85,4	83,1	80,7	78,5	75,7	72,4	68,8	65,2					
			<u>16,74</u>				<u>36,56</u>	<u>38,57</u>	<u>40,54</u>	<u>42,46</u>	<u>43,39</u>	<u>44,31</u>	<u>46,12</u>	<u>47,81</u>	<u>49,29</u>	<u>50,92</u>	<u>52,59</u>	<u>54,18</u>	<u>55,50</u>					

TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																		
			0	78	84	96	108	120	132	138	144	156	168	180	195	210	225	240	255		
			0	1300	1400	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250		
		kW	H (m)																		
			pump input power (kW)																		
80-315BN No CAT, CAX, CATX	90	280M	108,0	112,4	112,4	112,2	111,7	111,1	110,2	109,7	109,1	107,9	106,4	104,9	102,7	100,4	98,3	95,7	90,8		
			<u>21,85</u>	<u>42,35</u>	<u>44,06</u>	<u>47,49</u>	<u>50,86</u>	<u>54,13</u>	<u>57,25</u>	<u>58,76</u>	<u>60,24</u>	<u>63,14</u>	<u>65,95</u>	<u>68,72</u>	<u>72,14</u>	<u>75,60</u>	<u>78,97</u>	<u>82,15</u>	<u>85,17</u>		
80-315AN No CAT, CAX, CATX	110	315S	140,5	141,4	141,1	140,2	139,2	138,1	136,9	136,2	135,5	134,1	132,5	131,0	128,7	125,8	122,5	121,7	118,5		
			<u>31,92</u>	<u>55,48</u>	<u>57,36</u>	<u>61,13</u>	<u>64,91</u>	<u>68,78</u>	<u>72,88</u>	<u>74,96</u>	<u>76,96</u>	<u>80,84</u>	<u>84,36</u>	<u>87,02</u>	<u>90,23</u>	<u>94,76</u>	<u>99,35</u>	<u>103,04</u>	<u>106,15</u>		

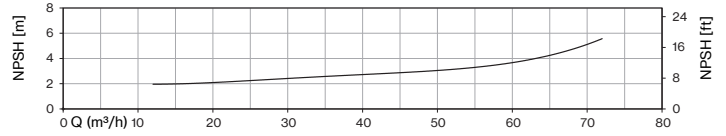
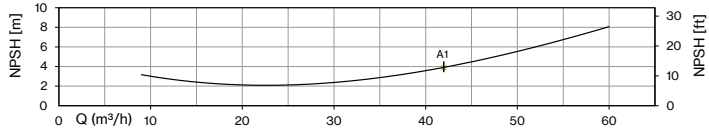
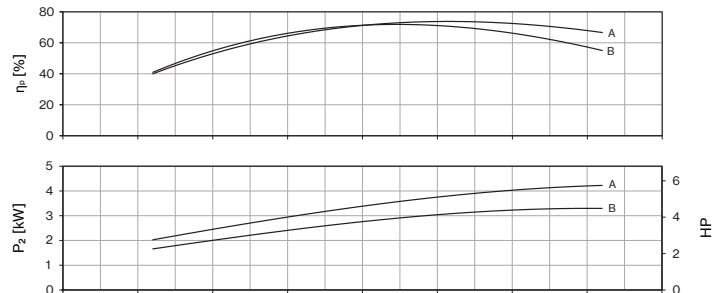
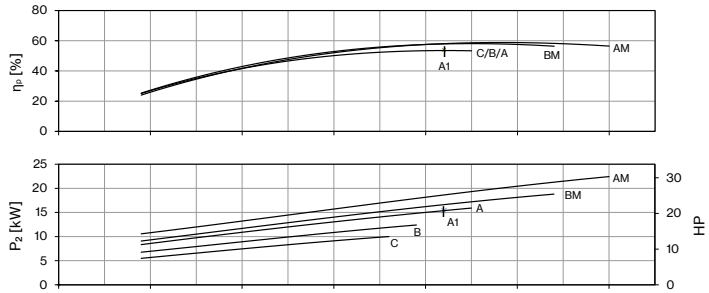
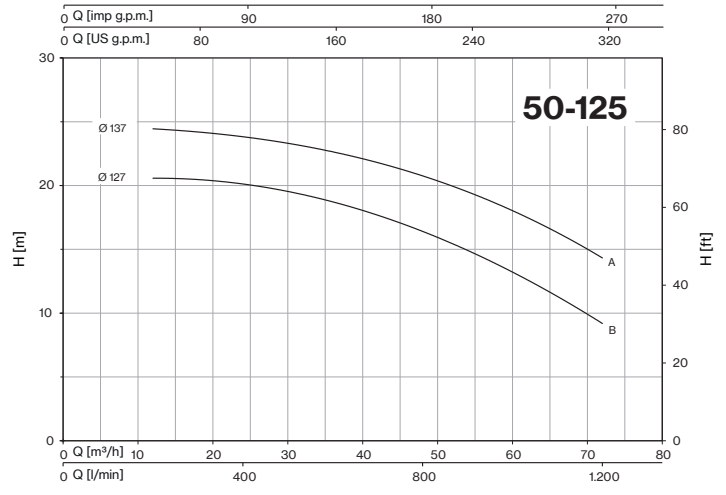
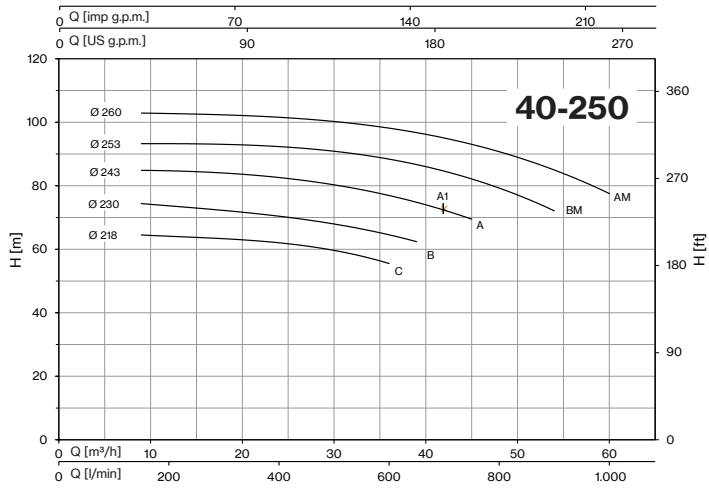
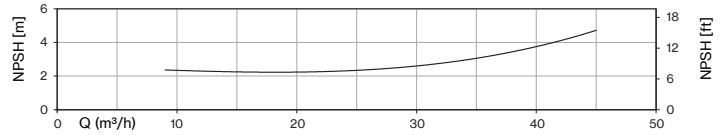
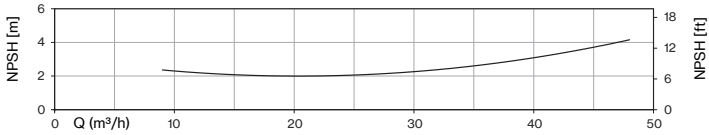
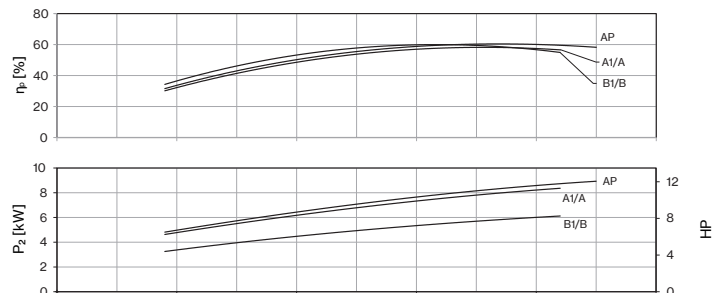
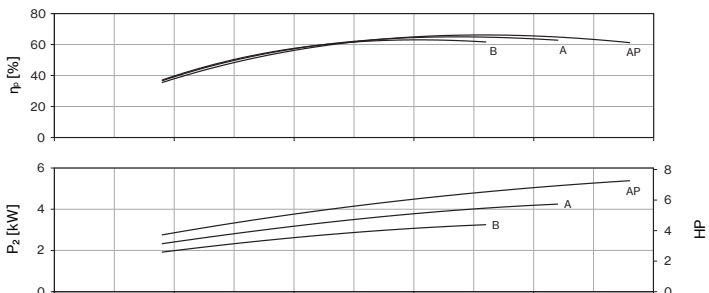
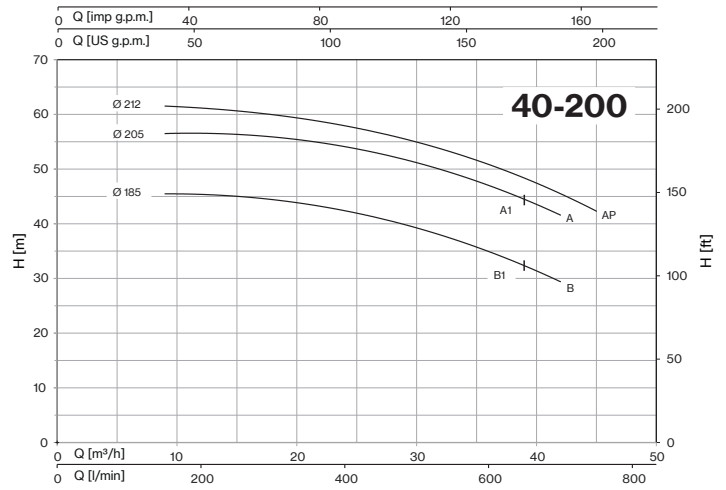
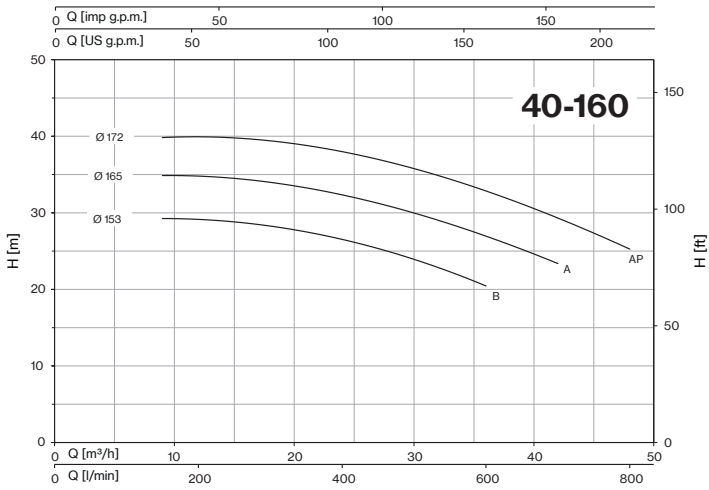
TYPE - 50 Hz	P2	Motor Size	Q (m³/h - l/min)																					
			0	108	120	132	138	144	156	168	180	195	210	225	240	255	270	300	330	360				
			0	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000				
		kW	H (m)																					
			pump input power (kW)																					
100-200D	30	200L	44,1	43,3	42,9	42,3	42,0	41,6	40,8	39,9	39,0	37,9	36,8	35,4	33,8	32,3	30,6	26,3						
			<u>17,69</u>	<u>21,82</u>	<u>22,56</u>	<u>23,28</u>	<u>23,62</u>	<u>23,94</u>	<u>24,53</u>	<u>25,08</u>	<u>25,65</u>	<u>26,39</u>	<u>27,08</u>	<u>27,68</u>	<u>28,21</u>	<u>28,71</u>	<u>29,16</u>	<u>29,70</u>						
100-200C	37	200L	48,5	48,4	48,0	47,6	47,3	47,0	46,3	45,4	44,6	43,6	42,5	41,2	39,5	37,8	36,2	32,7	28,1					
			<u>19,89</u>	<u>24,72</u>	<u>25,53</u>	<u>26,31</u>	<u>26,70</u>	<u>27,09</u>	<u>27,87</u>	<u>28,66</u>	<u>29,43</u>	<u>30,38</u>	<u>31,30</u>	<u>32,12</u>	<u>32,85</u>	<u>33,51</u>	<u>34,11</u>	<u>35,06</u>	<u>35,64</u>					
100-200B	45	225M	56,1	56,8	56,5	56,1	55,9	55,6	55,1	54,5	53,9	53,1	52,2	51,4	50,4	49,0	47,5	43,8	39,7					
			<u>21,75</u>	<u>28,84</u>	<u>29,78</u>	<u>30,74</u>	<u>31,24</u>	<u>31,75</u>	<u>32,81</u>	<u>33,89</u>	<u>35,04</u>	<u>36,50</u>	<u>37,82</u>	<u>38,89</u>	<u>39,85</u>	<u>40,77</u>	<u>41,60</u>	<u>42,92</u>	<u>43,82</u>					
100-200A	55	250M	61,1	62,2	61,8	61,5	61,2	61,0	60,5	59,9	59,5	58,9	58,3	57,4	56,4	55,2	53,8	50,6	46,8	42,5				
			<u>24,57</u>	<u>33,04</u>	<u>34,07</u>	<u>35,11</u>	<u>35,64</u>	<u>36,18</u>	<u>37,28</u>	<u>38,39</u>	<u>39,49</u>	<u>40,86</u>	<u>42,23</u>	<u>43,60</u>	<u>44,97</u>	<u>46,20</u>	<u>47,28</u>	<u>49,05</u>	<u>50,53</u>	<u>51,62</u>				
100-250C	75	280S	71,9		73,2	73,1	73,0	72,9	72,6	72,2	71,8	71,1	70,3	69,3	67,9	66,4	64,7	61,0						
			<u>24,75</u>		<u>40,12</u>	<u>41,93</u>	<u>42,84</u>	<u>43,70</u>	<u>45,28</u>	<u>46,77</u>	<u>48,21</u>	<u>49,94</u>	<u>51,65</u>	<u>53,38</u>	<u>55,05</u>	<u>56,66</u>	<u>58,19</u>	<u>60,99</u>						
100-250B	75	280S	83,6		83,7	83,5	83,4	83,2	82,9	82,5	82,1	81,4	80,8	80,0	79,0	77,9	76,4	72,0	67,6					
			<u>29,69</u>		<u>47,10</u>	<u>49,06</u>	<u>50,04</u>	<u>51,01</u>	<u>52,92</u>	<u>54,76</u>	<u>56,47</u>	<u>58,46</u>	<u>60,26</u>	<u>61,86</u>	<u>63,49</u>	<u>65,17</u>	<u>66,93</u>	<u>70,91</u>	<u>73,78</u>					
100-250A	90	280M	93,5		93,9	93,7	93,5	93,4	92,9	92,4	91,8	90,9	89,9	88,8	87,4	85,7	84,0	80,4	75,8	70,8				
			<u>32,71</u>		<u>51,99</u>	<u>54,14</u>	<u>55,23</u>	<u>56,31</u>	<u>58,48</u>	<u>60,60</u>	<u>62,57</u>	<u>64,88</u>	<u>66,97</u>	<u>68,84</u>	<u>70,81</u>	<u>72,81</u>	<u>74,73</u>	<u>78,17</u>	<u>81,33</u>	<u>84,50</u>				



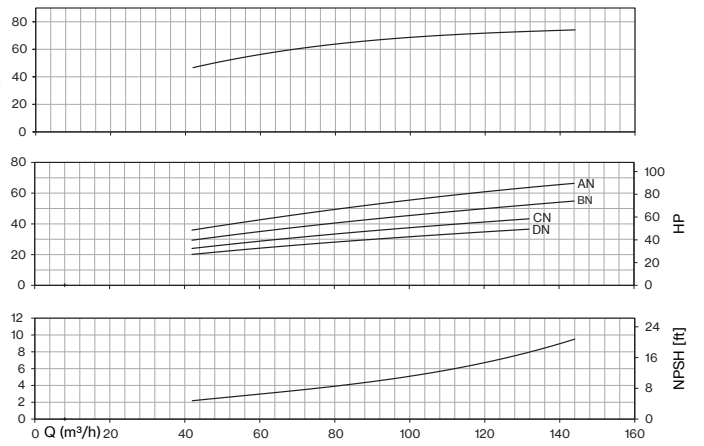
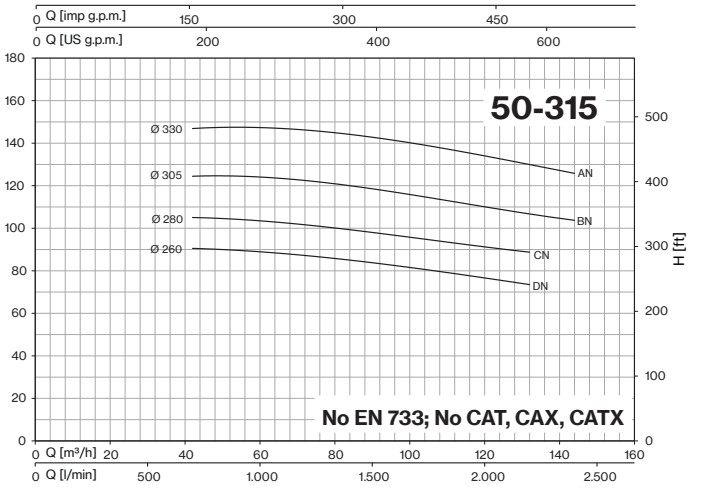
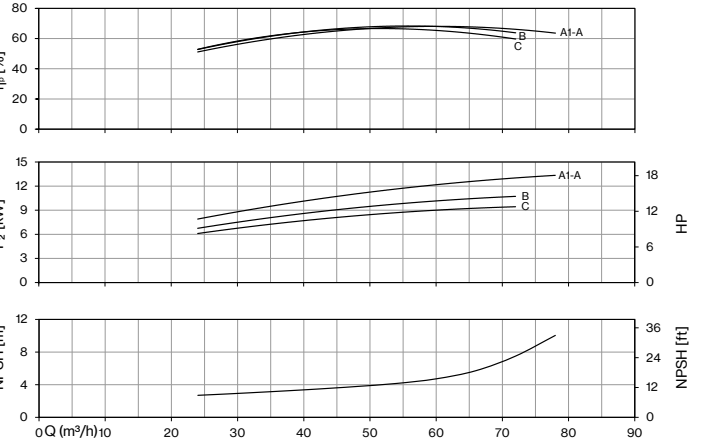
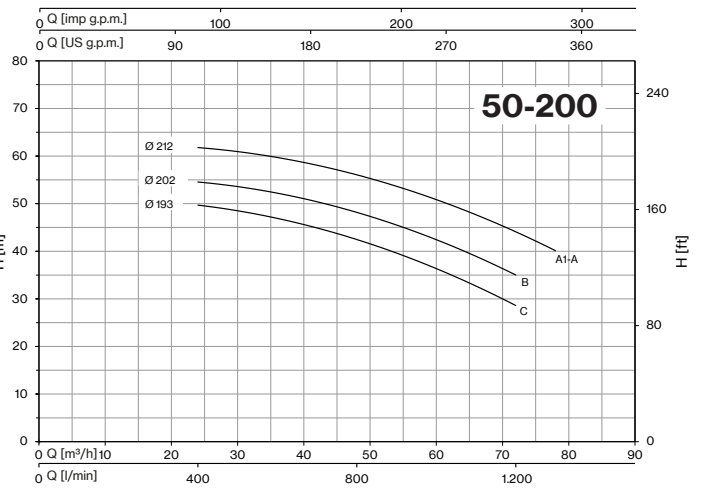
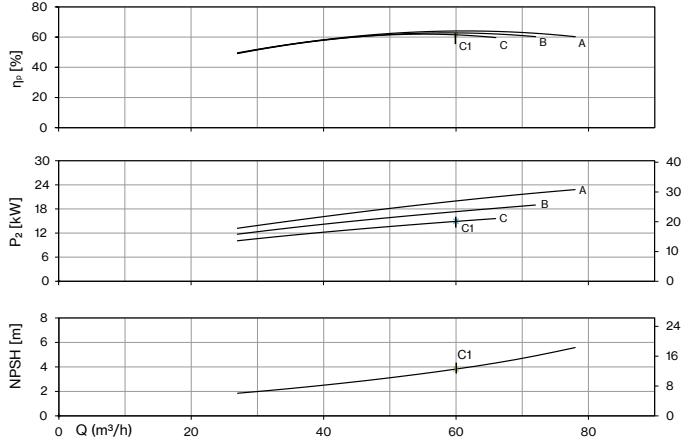
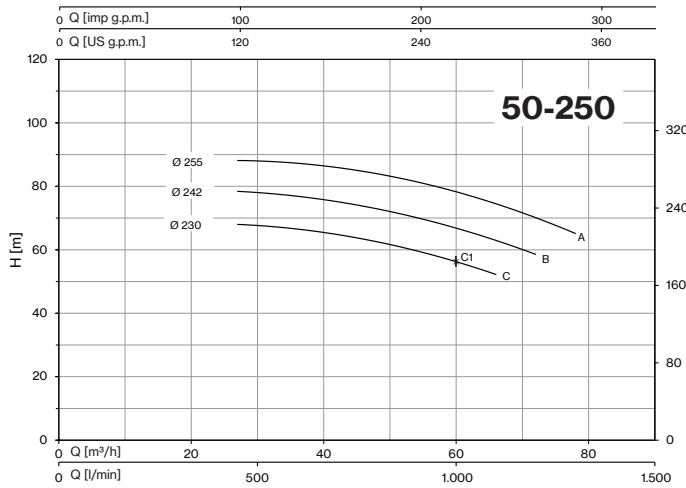
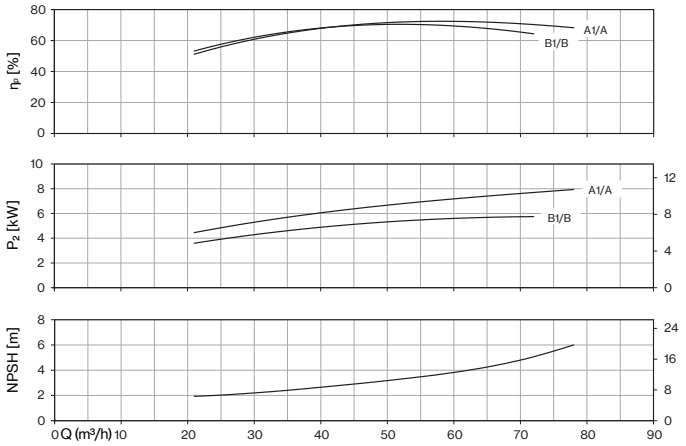
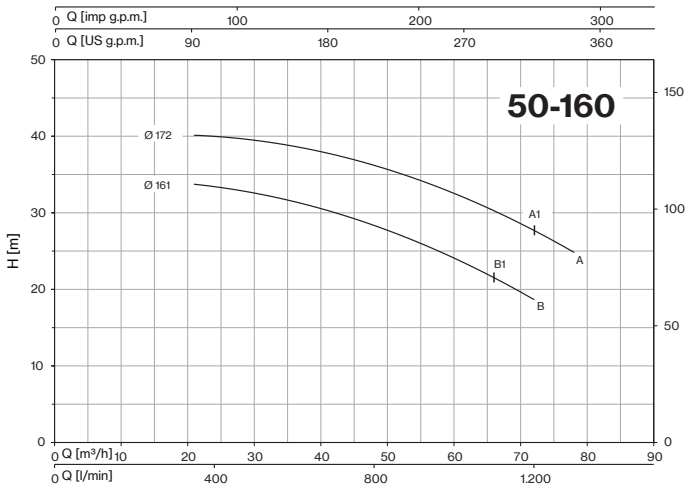
# CM-CMG-CMGX-CA-CAX ~ EN 733



# CM-CMG-CMGX-CA-CAX ~ EN 733



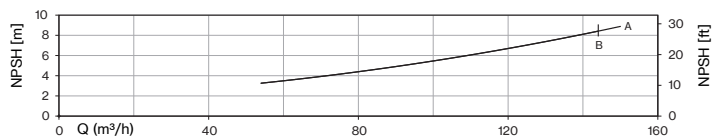
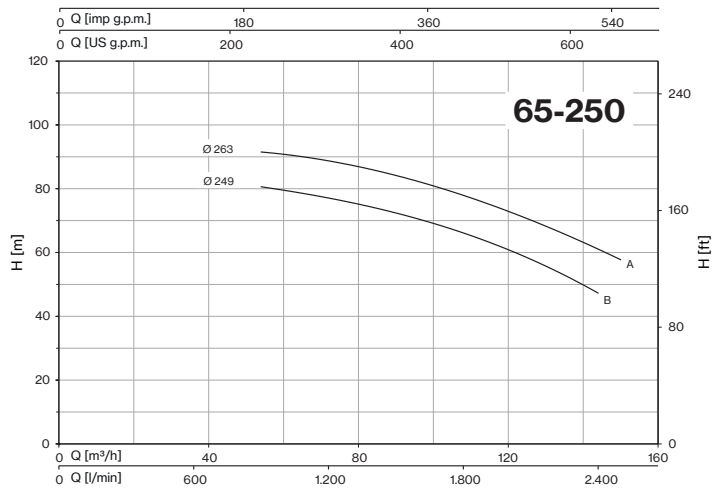
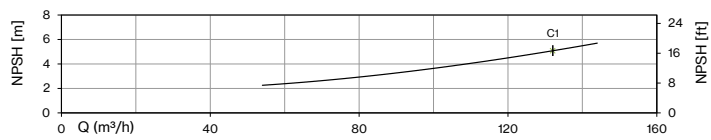
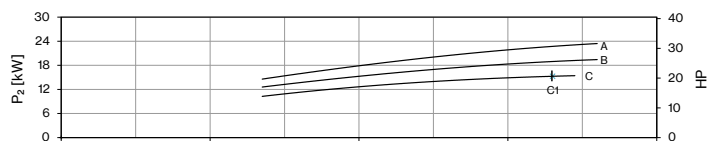
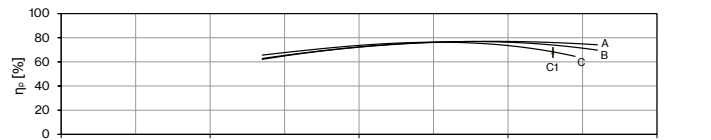
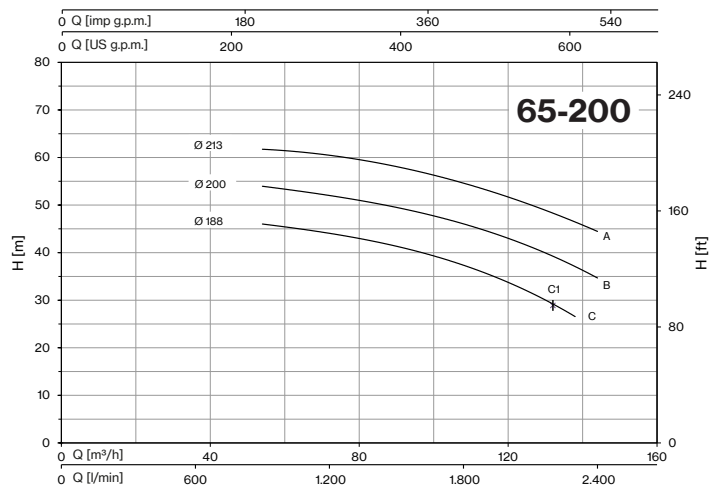
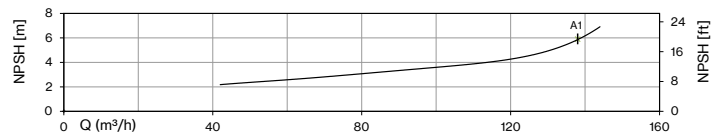
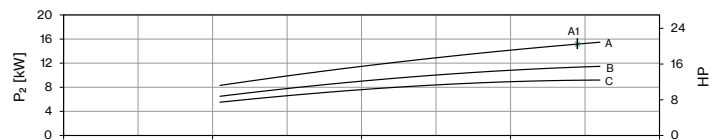
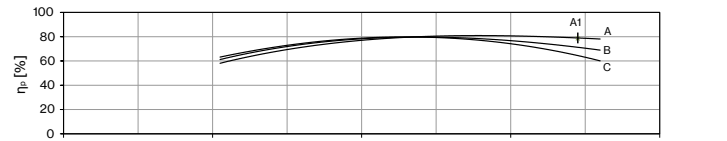
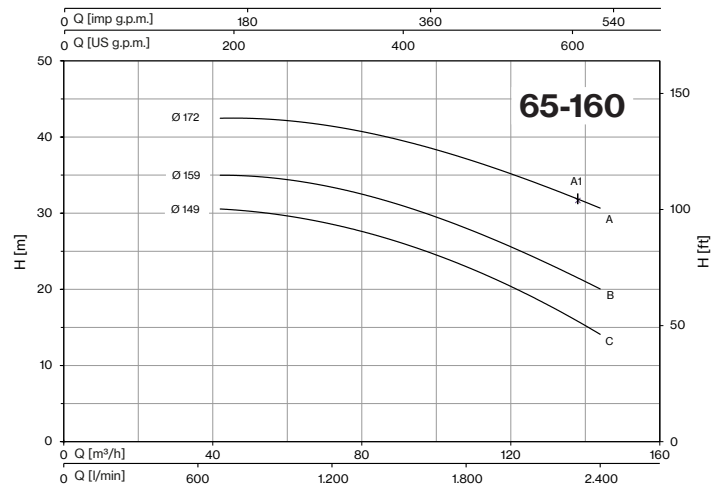
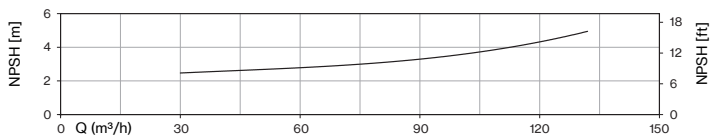
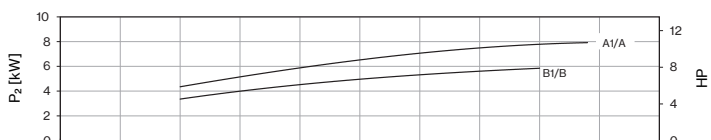
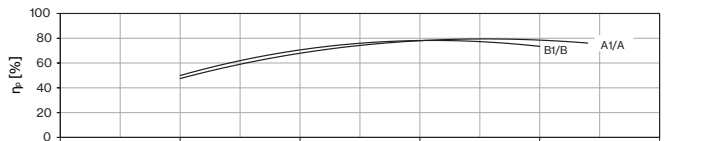
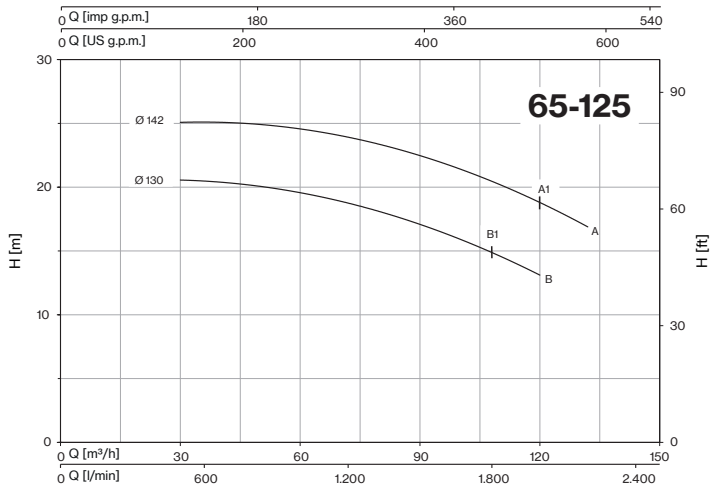
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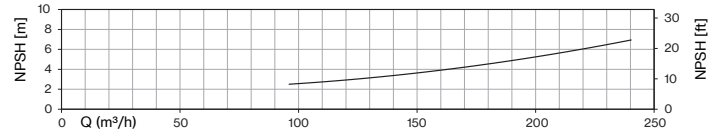
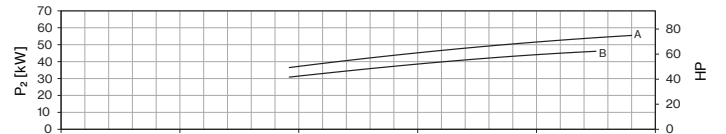
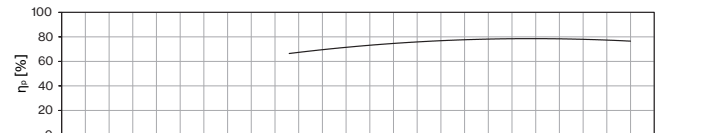
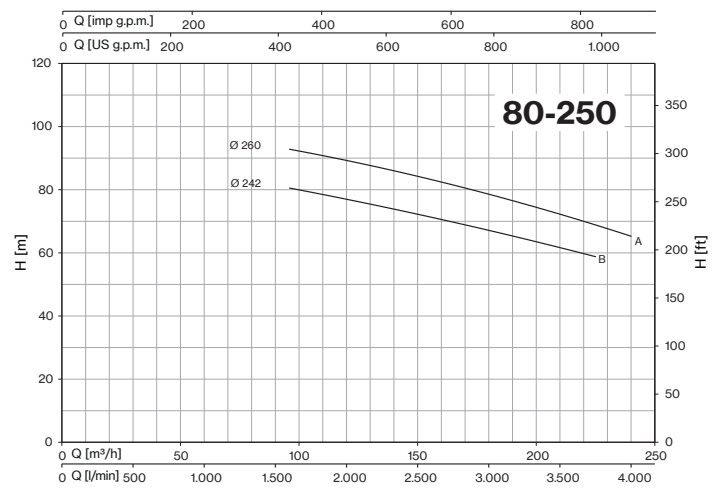
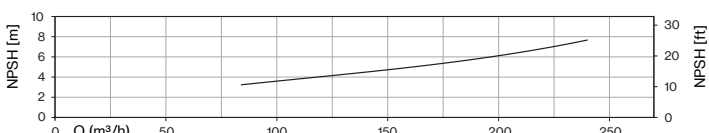
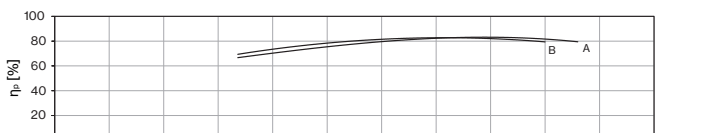
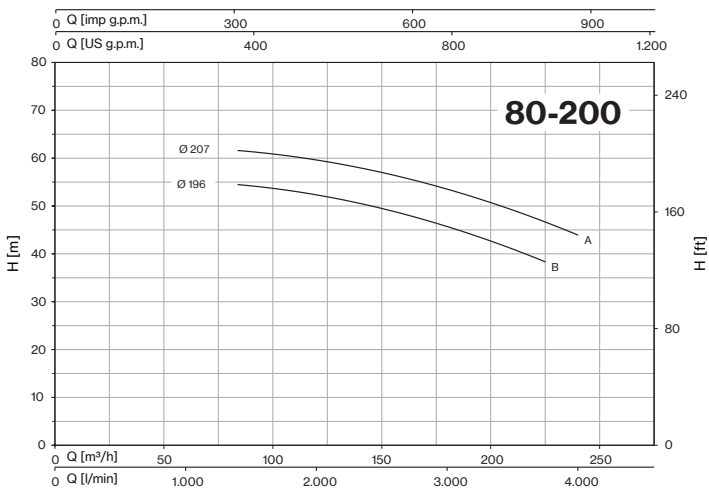
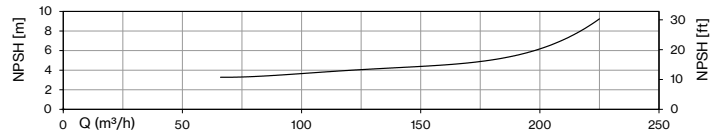
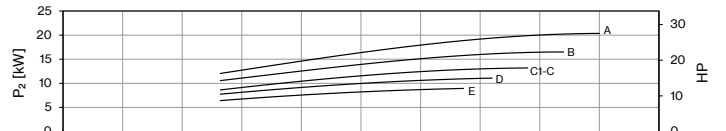
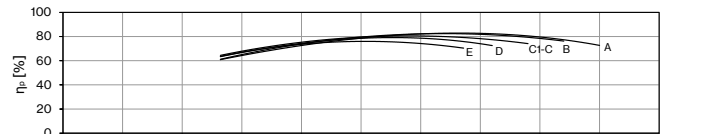
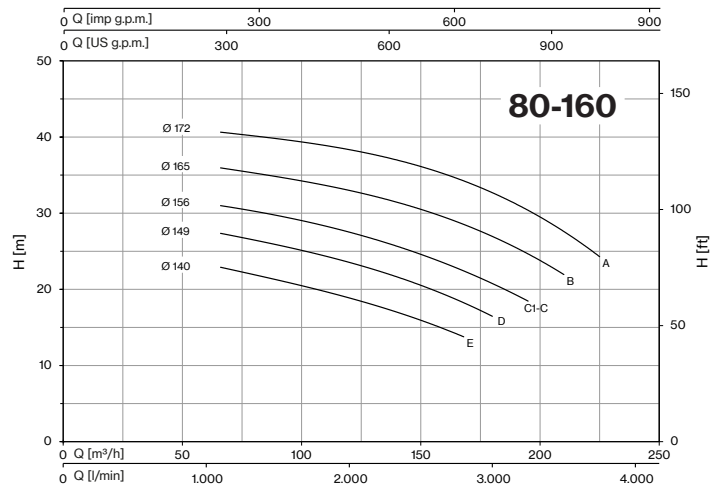
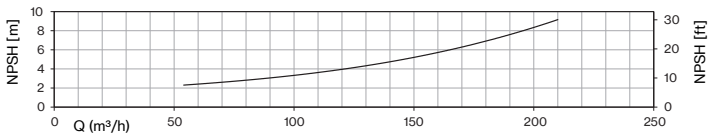
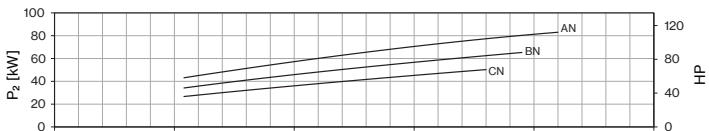
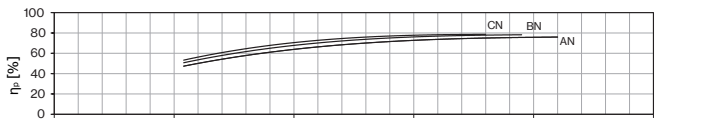
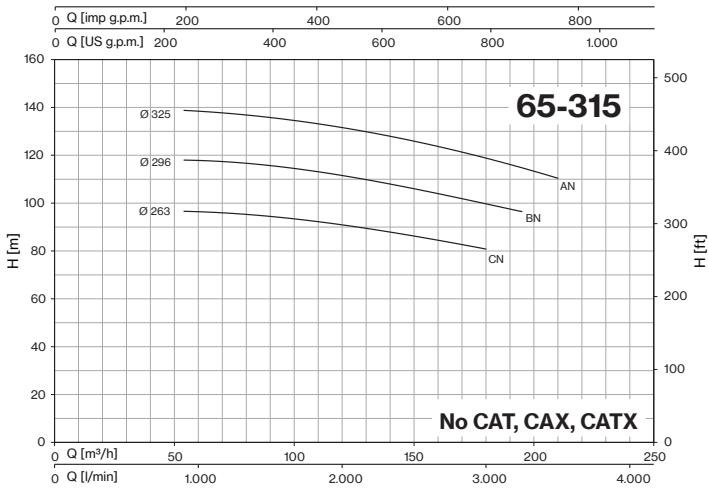
No EN 733; No CAT, CAX, CATX



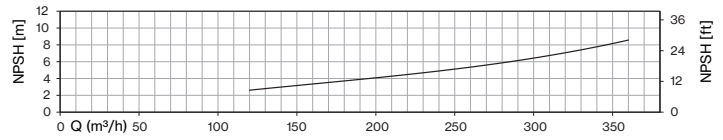
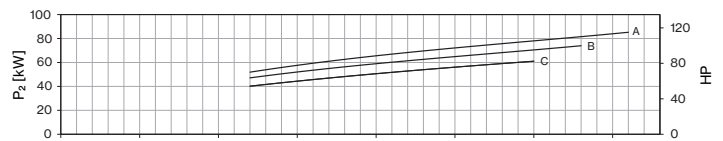
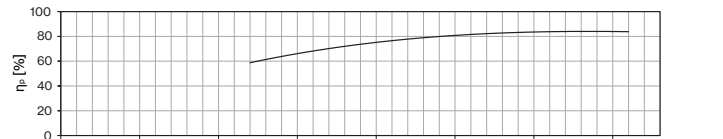
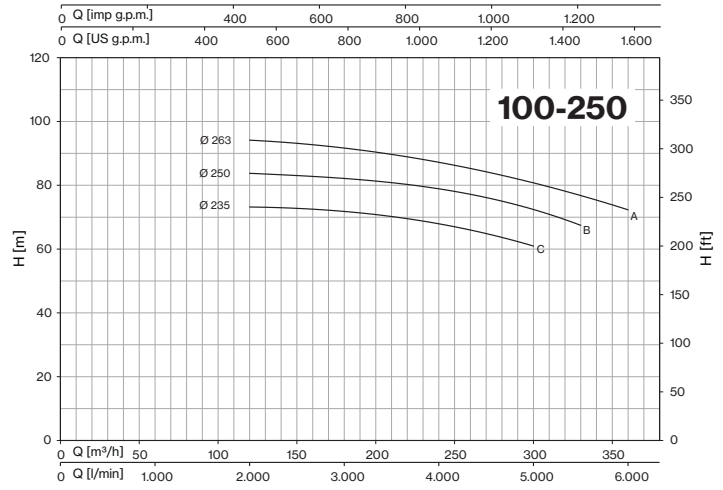
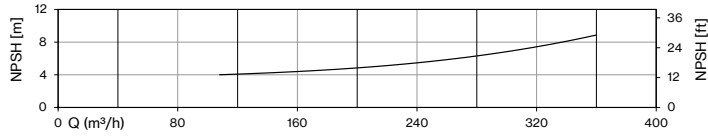
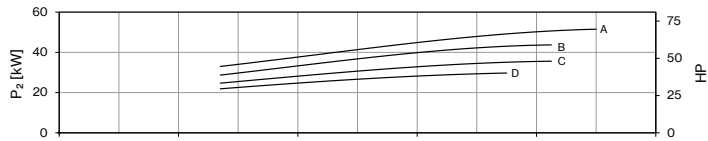
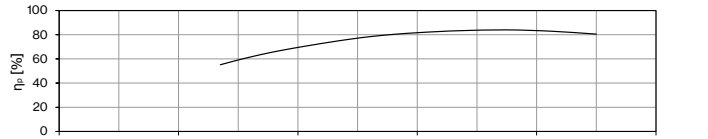
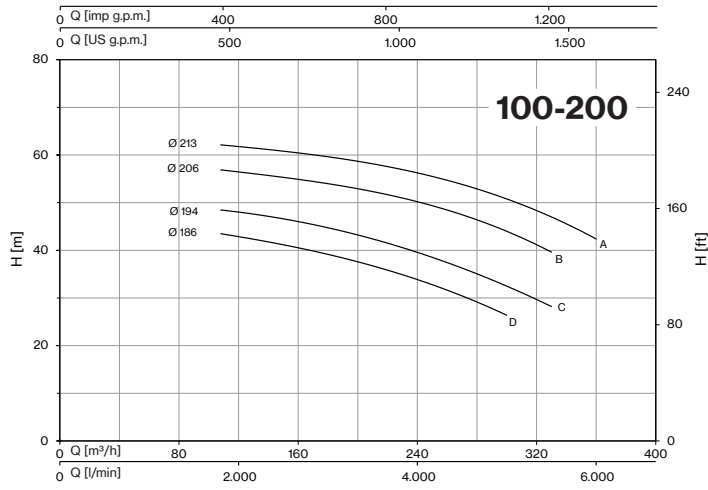
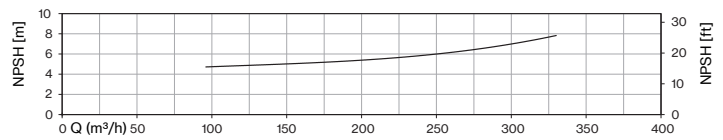
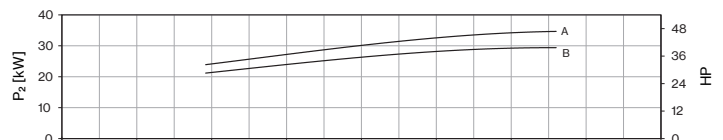
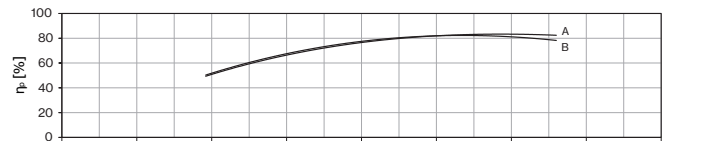
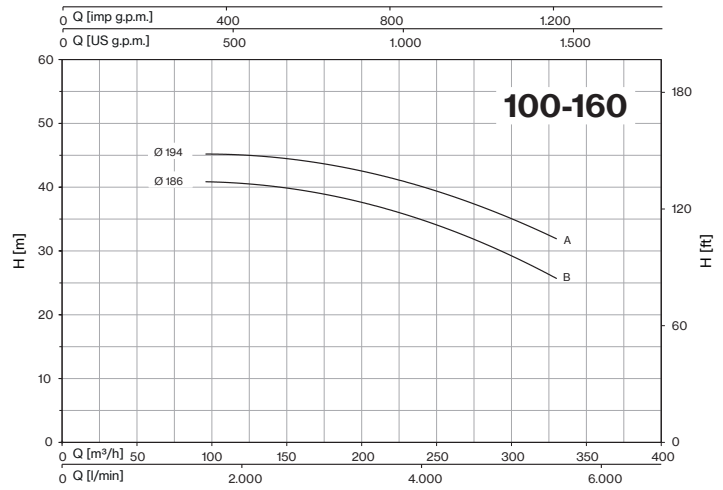
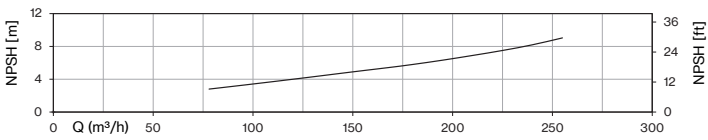
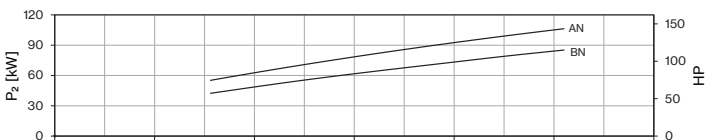
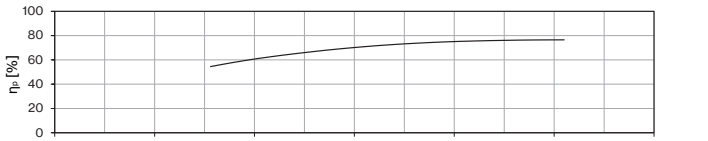
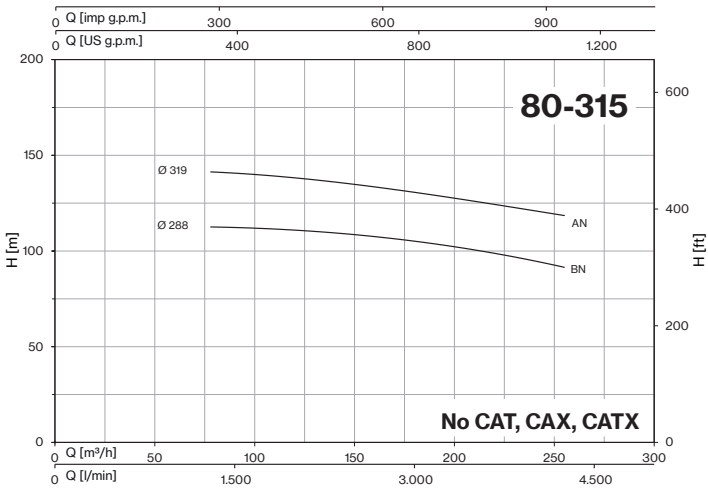
# CM-CMG-CMGX-CA-CAX ~ EN 733



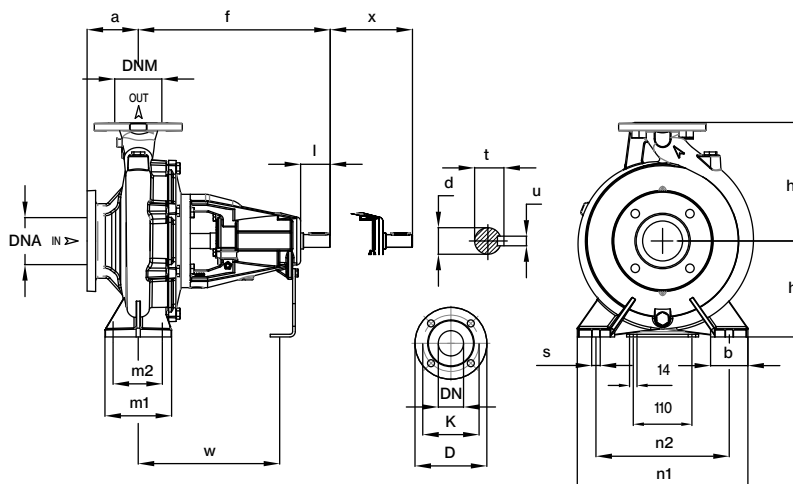
# CM-CMG-CMGX-CA-CAX ~ EN 733



# CM-CMG-CMGX-CA-CAX ~ EN 733

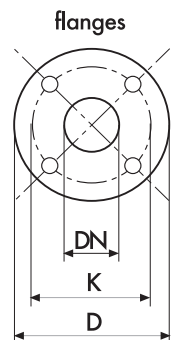


**CA-CAX EN 733 ~ 2900 rpm**  
**4CA-4CAX EN 733 ~ 1450 rpm**

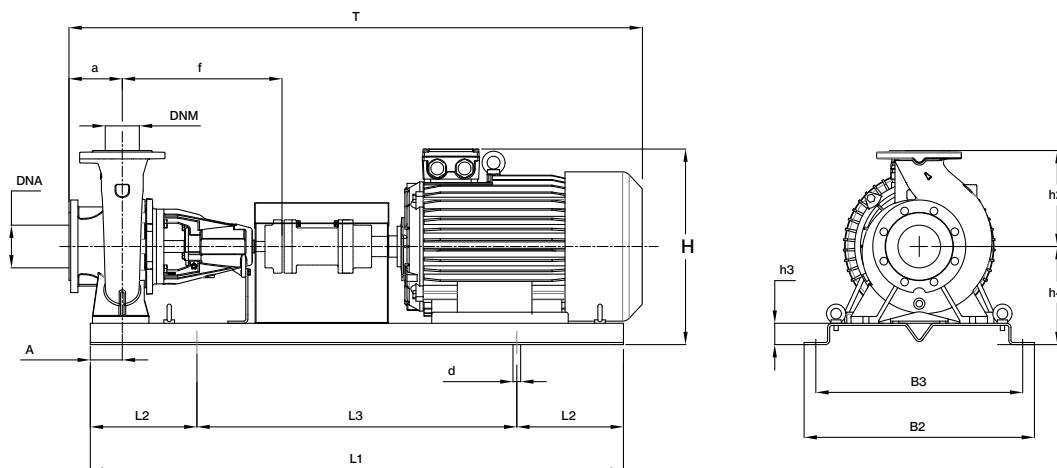


TYPE	DIMENSIONS (mm)																					
	a	f	h1	h2	m1	m2	n1	n2	s	b	l	d	t	u	x	w	DNA	DNM	I	L	M	
32-160	80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260			535	320	445	38
32-200	80	360	160	180	100	70	240	190	14	50	50	24	27	8	100	260	50	32	535	320	445	41
32-250	100	360	180	225	125	95	320	250	14	65	65	24	27	8	100	260			545	405	545	49
40-125	80	360	112	140	100	70	210	160	14	50	50	24	27	8	100	260			535	320	445	37
40-160	80	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	65	40	535	320	445	40
40-200	100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260			535	320	445	44
40-250	100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260			545	405	545	49,5
50-125	100	360	132	160	100	70	240	190	14	50	50	24	27	8	100	260	65	50	535	320	445	39,5
50-160	100	360	160	180	100	70	265	212	14	50	50	24	27	8	100	260			535	320	445	44
50-200	100	360	160	200	100	70	265	215	14	50	50	24	27	8	100	260			535	320	445	47
50-250	100	360	180	225	125	95	320	250	14	65	50	24	27	8	100	260			545	405	545	53
50-315	125	470	225	280	125	95	345	280	14	65	80	32	35,3	10	100	340	80		655	465	620	94,5
65-125	100	360	160	180	125	95	280	212	14	65	65	24	27	8	100	260			535	320	445	44,5
65-160	100	360	160	200	125	95	280	212	14	65	65	24	27	8	100	260			535	320	445	49
65-200	100	360	180	225	125	95	320	250	14	65	65	24	27	8	140	260	80	65	545	405	545	54
65-250	100	470	200	250	160	120	360	280	19	80	80	32	35	10	140	340			545	405	545	76,5
65-315	125	470	225	280	160	120	400	315	19	80	80	32	35	10	140	340			655	465	620	96
80-160	125	360	180	225	125	95	320	250	14	65	50	24	27	8	140	260			545	405	545	58
80-200	125	470	180	250	125	95	345	280	14	65	80	32	35	10	140	340	100	80	680	405	545	74
80-250	125	470	200	280	160	120	400	315	18	80	80	32	35,3	10	140	340			655	465	585	91
80-315	125	470	250	315	160	120	400	315	18	80	80	32	35,3	10	140	340			655	465	620	106
100-200	125	470	200	280	160	120	360	280	18	80	80	32	35,3	10	140	340			655	465	620	95
100-250	140	470	225	280	160	120	400	315	18	80	80	32	35,3	10	140	340	125	100	655	465	620	103
100-315	140	470	250	315	160	120	400	315	18	80	80	32	35,3	10	140	340			655	465	620	122
100-400	140	530	280	355	200	150	500	400	22	100	110	42	45,3	12	140	370			720	775	855	183,5
125-250	140	470	315	355	200	150	400	315	22	100	110	32	45,3	12	140	370			655	465	620	132
125-315	140	530	280	355	200	150	500	400	22	100	110	42	45,3	12	140	370	150	125	720	775	855	176
125-400	140	530	315	400	200	150	500	400	22	100	110	42	45,3	12	140	370			720	775	855	198
150-315	160	530	280	400	200	150	550	450	22	100	110	42	45,3	12	140	370	200	150	655	465	620	191
150-400	160	530	315	450	200	150	550	450	22	100	110	42	45,3	12	140	370			720	775	855	218,5
200-315	180	706	355	450	250	190	634	500	28	134	110	55	58,3	16	208	523	250	200	800	1200	1150	345
200-400	180	706	355	500	250	190	634	500	28	134	110	55	58,3	16	214	523			800	1200	1150	346
250-315	225	711	400	500	250	200	694	560	28	134	110	55	58,3	16	214	528	300	250	800	1200	1070	401,5
250-400	225	706	400	550	250	200	694	560	28	134	110	55	58,3	16	220	523			800	1200	1120	393

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18
150	285	240	8	23
200	340	295	8	23
250	395	350	12	23
300	445	400	12	23



# CA-CAX EN 733 ~ 2900 rpm




TYPE	kW	Motor Size	DIMENSIONS (mm)															Kg	
			a	f	h4	h2	h3	L1	L2	L3	B2	B3	A	d	T	H	DNA		DNM
32-160C	1,5	90S	80	360	182	160	50	900	150	600	390	350	60	18	855	342	50	32	82,1
32-160B	2,2	90L	80	360	182	160	50	900	150	600	390	350	60	18	920	342			87,7
32-160A	3	100L	80	360	182	160	50	900	150	600	390	350	60	18	920	362			96,7
32-160A	4	112M	80	360	182	160	50	900	150	600	390	350	60	18	940	375			104,7
32-200C	4	112M	80	360	210	180	50	900	150	600	390	350	60	18	940	403			108,7
32-200C	5,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			116,1
32-200B	5,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			116,1
32-200B	7,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			144,3
32-200A	7,5	132S	80	360	210	180	50	1000	170	660	450	400	60	22	1020	433			144,3
32-250C	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			207,3
32-250B	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	207,3		
32-250A	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	219,3		
40-125C	1,5	90S	80	360	162	140	50	900	150	600	390	350	60	18	855	317	65	40	82,2
40-125C	2,2	90L	80	360	162	140	50	900	150	600	390	350	60	18	920	317			87,8
40-125B	2,2	90L	80	360	162	140	50	900	150	600	390	350	60	18	920	317			87,8
40-125B	3	100L	80	360	162	140	50	900	150	600	390	350	60	18	920	342			96,8
40-125A	3	100L	80	360	162	140	50	900	150	600	390	350	60	18	920	342			96,8
40-160B	3	100L	80	360	182	160	50	900	150	600	390	350	60	18	920	362			99,8
40-160B	4	112M	80	360	182	160	50	900	150	600	390	350	60	18	940	375			107,8
40-160A	4	112M	80	360	182	160	50	900	150	600	390	350	60	18	940	375			107,8
40-160A	5,5	132S	80	360	182	160	50	1000	170	660	450	400	60	22	1020	405			115,2
40-160AP	5,5	132S	80	360	182	160	50	1000	170	660	450	400	60	22	1020	405			115,2
40-200B	5,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	119,2		
40-200B	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	147,4		
40-200A	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	147,4		
40-200A	11	160M	100	360	210	180	50	1120	190	740	490	440	60	22	1168	475	198,4		
40-200 AP	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	147,4		
40-200 AP	11	160M	100	360	210	180	50	1120	190	740	490	440	60	22	1168	475	198,4		
40-250C	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	208,9		
40-250B	11	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	208,9		
40-250B	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	220,9		
40-250A	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	220,9		
40-250A	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	238,9		
40-250BM	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495	238,9		
40-250AM	22	180M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	510	297,3		
50-125B	3	100L	100	360	182	160	50	900	150	600	390	350	60	18	940	362	65	50	99,7
50-125A	4	112M	100	360	182	160	50	900	150	600	390	350	60	18	960	375			107,7
50-160B	5,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			119,6
50-160A	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			147,8
50-200C	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			201,8
50-200B	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			201,8
50-200A	15	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			213,8
50-250C	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			224,8
50-250B	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			242,8
50-250A	22	180M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	510			301,2
50-315DN	37	200L	125	470	275	280	50	1400	230	940	610	550	75	26	1455	585	80	50	415,0
50-315CN	45	225M	125	470	275	280	50	1400	230	940	610	550	75	26	1500	605			465,8
50-315BN	55	250M	125	470	310	280	85	1600	270	1060	660	600	75	26	1650	710			611,8
50-315AN	75	280S	125	470	310	280	85	1800	300	1200	730	670	75	26	1850	770	762,6		




TYPE	kW	Motor Size	DIMENSIONS (mm)															Kg	
			a	f	h4	h2	h3	L1	L2	L3	B2	B3	A	d	T	H	DNA		DNM
65-125B	5,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433	80	65	121,4
65-125A	7,5	132S	100	360	210	180	50	1000	170	660	450	400	60	22	1040	433			149,6
65-160C	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			205,1
65-160B	11	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			205,1
65-160A	15	160M	100	360	210	200	50	1120	190	740	490	440	60	22	1168	475			217,1
65-200C	15	160M	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			227,5
65-200B	18,5	160L	100	360	230	225	50	1250	205	840	540	490	75	22	1275	495			245,5
65-200A	22	180M	100	360	230	225	50	1250	205	840	540	490	75	22	1290	510			303,3
65-250B	30	200L	100	470	250	250	50	1400	230	940	610	550	90	26	1470	560			377,8
65-250A	37	200L	100	470	250	250	50	1400	230	940	610	550	90	26	1470	560			397,8
65-315CN	55	250M	125	470	310	280	85	1600	270	1060	660	600	90	26	1645	710			614,2
65-315BN	75	280S	125	470	310	280	85	1800	300	1200	730	670	90	26	1835	770			765,0
65-315AN	90	280M	125	470	310	280	85	1800	300	1200	730	670	90	26	1835	770	839,2		
80-160E	11	160M	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495	100	80	220,8
80-160D	11	160M	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			220,8
80-160C	15	160M	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			232,8
80-160B	18,5	160L	125	360	230	225	50	1250	205	840	540	490	75	22	1300	495			250,8
80-160A	22	180M	125	360	230	225	50	1250	205	840	540	490	75	22	1315	510			308,7
80-200B	30	200L	125	470	230	250	50	1400	230	940	610	550	75	26	1495	560			376,7
80-200A	37	200L	125	470	230	250	50	1400	230	940	610	550	75	26	1495	560			396,7
80-250B	45	225M	125	470	250	280	50	1400	230	940	610	550	90	26	1540	605			464,5
80-250A	55	250M	125	470	285	280	85	1600	270	1060	660	600	90	26	1645	710			610,5
80-315BN	90	280M	125	470	335	315	85	1800	300	1200	730	670	90	26	1835	770			850,5
80-315AN	110	315S	125	470	405	315	120	2000	300	1400	790	750	90	22	2020	925			1233
100-200D	30	200L	125	470	250	280	50	1400	230	940	610	550	90	26	1500	560			125
100-200C	37	200L	125	470	250	280	50	1400	230	940	610	550	90	26	1500	560	428		
100-200B	45	225M	125	470	250	280	50	1400	230	940	610	550	90	26	1540	605	471,5		
100-200A	55	250M	125	470	285	280	85	1600	270	1060	660	600	90	26	1645	710	617,5		
100-250C	55	250M	140	470	310	280	85	1600	270	1060	660	600	90	26	1660	710	625,5		
100-250C	75	280S	140	470	310	280	85	1800	300	1200	730	670	90	26	1850	770	776,3		
100-250B	75	280S	140	470	310	280	85	1800	300	1200	730	670	90	26	1850	770	776,3		
100-250A	90	280M	140	470	310	280	85	1800	300	1200	730	670	90	26	1850	770	850,5		



# CA-4CA Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
					E	V	2E	2V
	32-160, 40-125	20mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite NBR	Ceramic Graphite EPDM	- - -	SiC SiC EPDM	SiC SiC FKM
	40-250M	28mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite EPDM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM
	32-200, 32-250, 40-160, 40-200, 40-250, 50-125, 50-160, 50-200, 50-250, 65-125, 65-160, 65-200, 80-160	28mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Ceramic Graphite NBR	Ceramic Graphite EPDM	Ceramic Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	50-315, 65-250, 65-315M, 80-200, 80-315, 100-315	40mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	50-315N, 65-315N, 80-315N	40mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Graphite SiC FKM	Graphite SiC EPDM	- - -	- - -	- - -
	80-250, 100-200, 100-250, 125-250	45mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM
	100-400, 125-315, 125-400, 150-315, 150-400	55mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Graphite SiC FKM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM
	200-315, 200-400, 250-315, 250-400	70mm	<b>Rotating face</b> <b>Stationary face</b> <b>Elastomer</b>	Graphite SiC FKM	- - -	- - -	SiC SiC EPDM	SiC SiC FKM

PUMP BEARINGS	PUMP MODEL	TYPE	
	32-160, 32-200, 32-250, 40-125, 40-160, 40-200, 40-250, 40-250M, 50-125, 50-160, 50-200, 50-250, 65-125, 65-160, 65-200, 80-160	6306-ZZ C3	6306-ZZ C3
	50-315, 65-250, 65-315, 80-200, 80-315, 100-315	3208-ZZ C3	3208-ZZ C3
	50-315N, 65-315N, 80-250, 80-315N, 100-200, 100-250, 125-250	6209-ZZ C3	6309-ZZ C3
	100-400, 125-315, 125-400, 150-315, 150-400	6211-ZZ C3	6311-ZZ C3
	200-315, 200-400, 250-315, 250-400, 250-400	6313-ZZ C3	6313-ZZ C3

