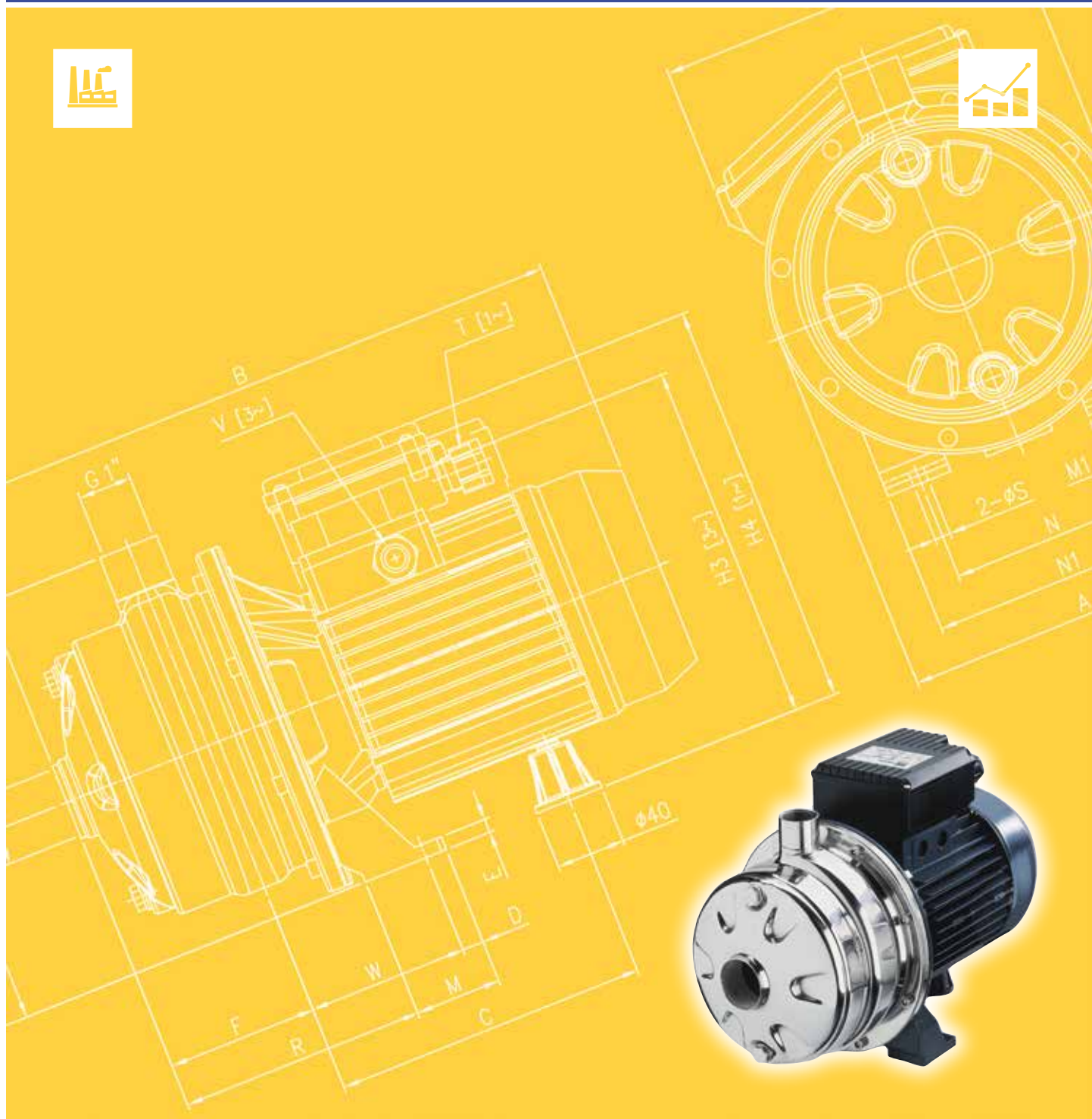




Japanese Technology since 1912

2CDX(L)

Data Book 50Hz



SPECIFICATIONS

50Hz

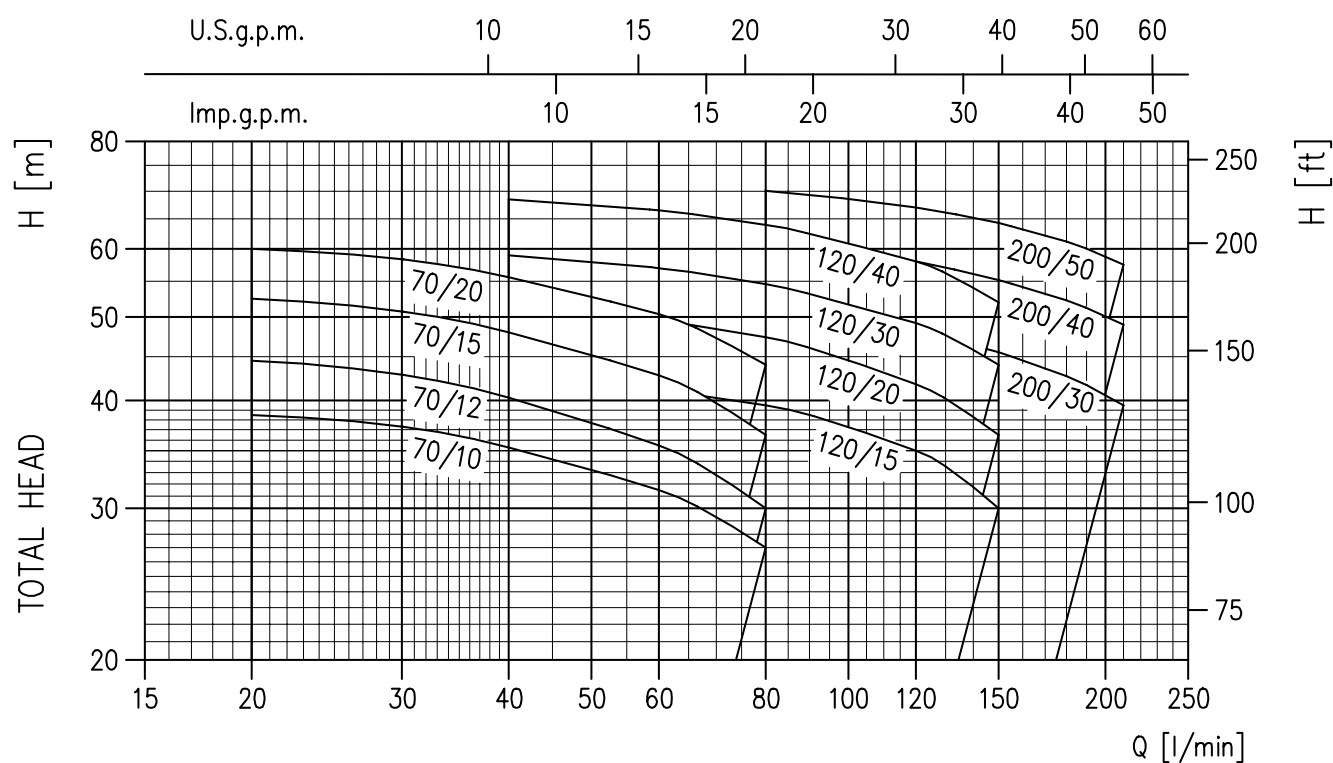
Rev. U

PUMP		
Liquid Handled	Type of liquid	Clean water
	Temperature [°C]	min. -5 max. +120 For full details see section "FLUID TEMPERATURE RANGE"
Maximum working pressure [MPa]		0.8
Construction	Impeller	Closed centrifugal type (Twin)
	Shaft seal type	Mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction [inch]	from G1 ¹ / ₄ to G1 ¹ / ₂ (2CDX 200) UNI ISO 228-1
	Discharge [inch]	G1" UNI ISO 228-1
Material	Casing	EN 1.4301 (AISI 304) - (AISI 316L only for "L" version)
	Impeller	EN 1.4301 (AISI 304) - (AISI 316L only for "L" version)
	Casing cover	EN 1.4301 (AISI 304) - (AISI 316L only for "L" version)
	Shaft seal	Ceramic/Carbon/NBR (for version see page 302)
	Shaft	AISI 304 / AISI 316L (Wet extension)
	Bracket	Aluminium (up to 1.5 kW included) Cast iron (2.2 kW and above)
	Diffuser	EN 1.4301 (AISI 304) - (AISI 316L only for "L" version)
Applicable standard of test		ISO 9906:2012 – Grade 3B

MOTOR		
Type	Electric - TEFC	
	Single Phase	Three Phase
Efficiency level (Reg. 1781/2019)	IE2	IE3
No. of Poles	2	
Rotation speed [min ⁻¹]	≈ 2800	
Insulation Class	F	
Protection degree (CEI EN 60034-5)	IP 55	
Power rating	[kW]	0.9 ÷ 1.8
	[HP]	1.2 ÷ 2.4
Frequency [Hz]	50	
Voltage [V]	230 ±10%	230/400 ±10%
Capacitor	Built in	-
Over load protection	Built in	Provided by the user
Casing material	Aluminium	
Motor support	Aluminium	
Dimensions of cable entry	PG11 – PG13.5 – M16x1.5 – M20x1.5 (see dimensions table page 400)	

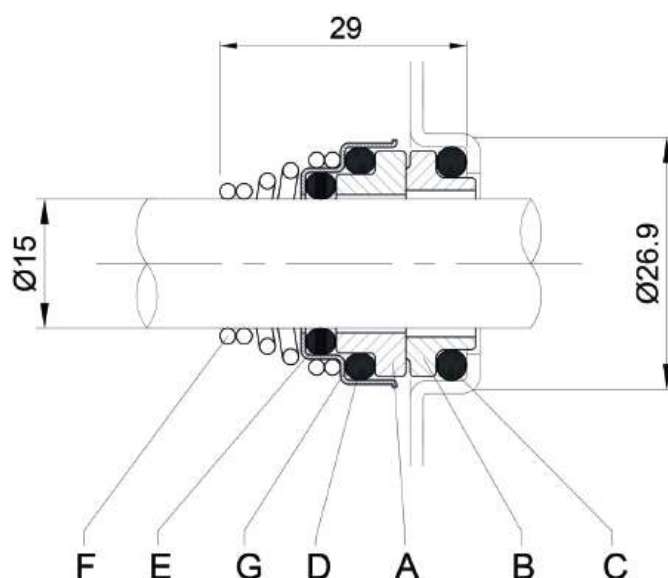
PERFORMANCE RANGE and SELECTION CHART**50Hz**

Rev. U

PERFORMANCE RANGE**SELECTION CHART**

Pump Type		Q=Capacity									
		l/min	0	20	40	60	80	120	150	180	210
Single Phase	Three Phase	m³/h	0	1,2	2,4	3,6	4,8	7,2	9,0	10,8	12,6
H=Total manometric head in meters											
2CDXM 70/10	2CDX 70/10	41	38,5	35,3	31,5	27	-	-	-	-	-
2CDXM 70/12	2CDX 70/12	48	44,5	40,3	35,5	30	-	-	-	-	-
2CDXM 70/15	2CDX 70/15	56	52,5	48	42,8	36,5	-	-	-	-	-
2CDXM 70/20	2CDX 70/20	64	60	55,6	50,4	44	-	-	-	-	-
2CDXM 120/15	2CDX 120/15	46	-	42	41	39,5	35	30	-	-	-
2CDXM 120/20	2CDX 120/20	55	-	51,5	49,5	47,4	41,8	36,5	-	-	-
-	2CDX 120/30	63	-	59	57	54,6	49,2	44	-	-	-
-	2CDX 120/40	71,5	-	68,5	66,5	64	58	52	-	-	-
-	2CDX 200/30	55	-	-	52	50,8	48,1	45,5	42,7	39,5	-
-	2CDX 200/40	66	-	-	62,5	61,1	58	55,2	52,3	49	-
-	2CDX 200/50	75	-	-	71,5	70,1	67	64,3	61,2	57,5	-

MECHANICAL SEAL



**STANDARD
+
"L" version**

REF	PART NAME	MATERIAL
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Self-driving spring	AISI 316
G	Frame	AISI 304

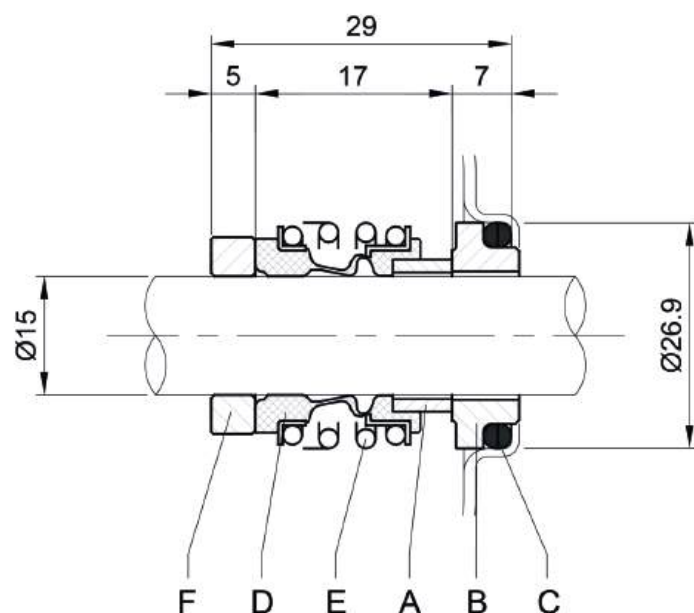
OPTIONAL

REF	PART NAME	MATERIAL			
		H	HW	HSW	E
A	Rotary seal ring	Ceramic	Tungsten carbide	Silicon carbide	Ceramic
B	Stationary seal ring	Carbon graphite	Tungsten carbide	Tungsten carbide	Carbon graphite
C	O-Ring	FPM	FPM	FPM	EPDM
D	O-Ring	FPM	FPM	FPM	EPDM
E	O-Ring	FPM	FPM	FPM	EPDM
F	Self-driving spring	AISI 316	AISI 316	AISI 316	AISI 316
G	Frame	AISI 304	AISI 316	AISI 316	AISI 316

SPECIAL

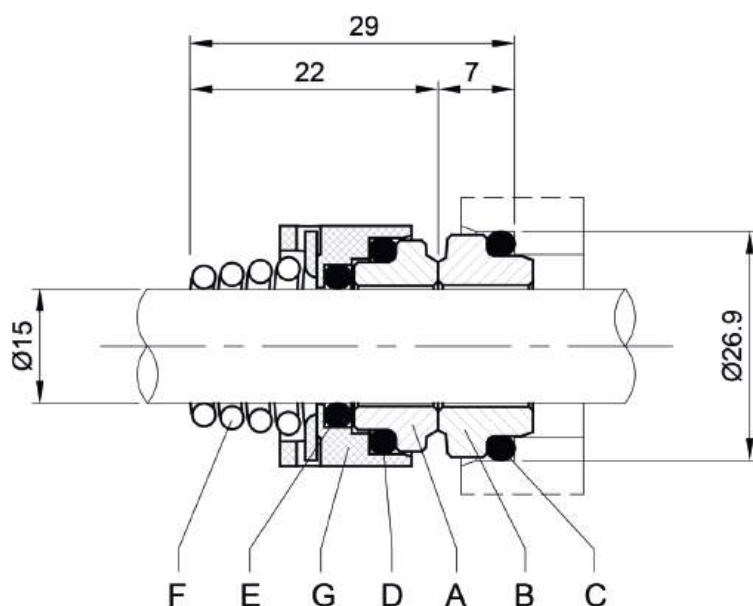
REF	PART NAME	MATERIAL			
		VAEGG	U3U3EGG	Q1U3EGG	U3CEGG
A	Rotary seal ring	Ceramic	Tungsten carbide	Silicon carbide	Tungsten carbide
B	Stationary seal ring	Metallised carbon	Tungsten carbide	Tungsten carbide	special Carbon
C	O-Ring	EPDM	EPDM	EPDM	EPDM
D	O-Ring	EPDM	EPDM	EPDM	EPDM
E	O-Ring	EPDM	EPDM	EPDM	EPDM
F	Self-driving spring	AISI 316	AISI 316	AISI 316	AISI 316
G	Frame	AISI 316	AISI 316	AISI 316	AISI 316

MECHANICAL SEAL



OPTIONAL

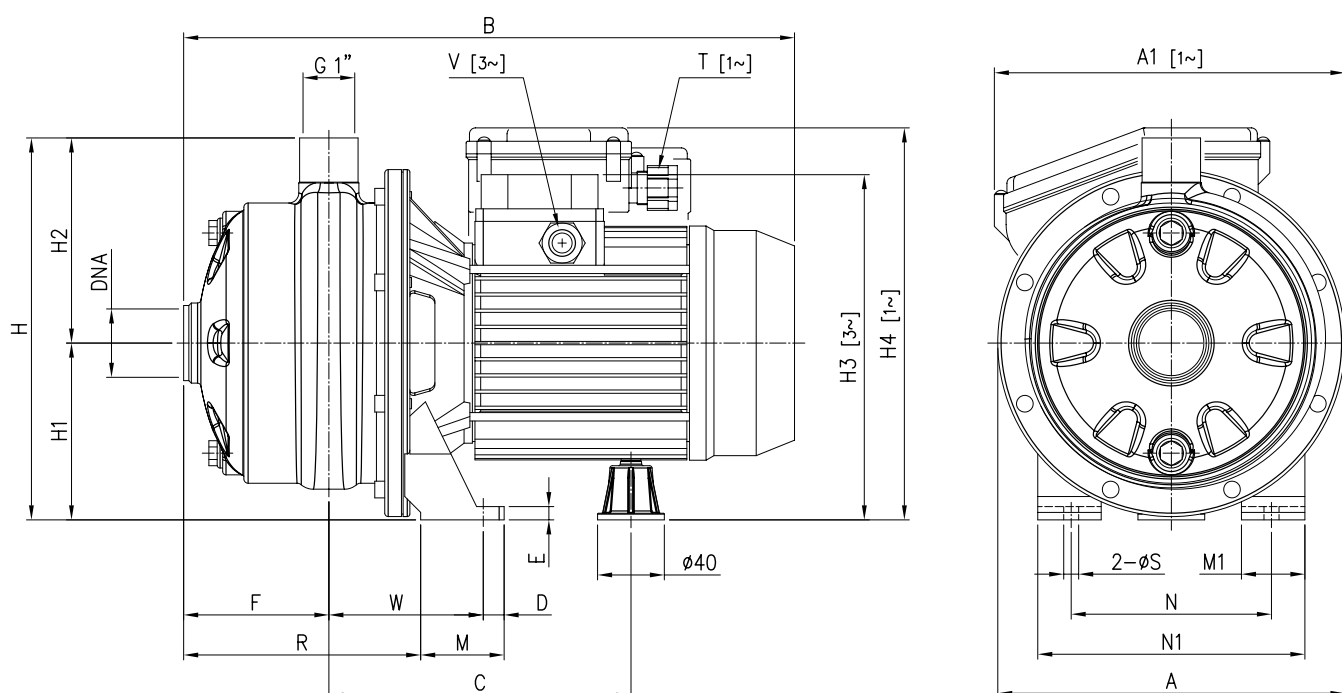
REF	PART NAME	MATERIAL HS
A	Rotary seal ring	Silicon carbide
B	Stationary seal ring	Silicon carbide
C	O-Ring	FPM
D	Bellows	FPM
E	Frame + Spring	AISI 316
F	Spacer ring	AISI 316



SPECIAL

REF	PART NAME	MATERIAL Q1AEGG
A	Rotary seal ring	Silicon carbide
B	Stationary seal ring	Metallised carbon
C	O-Ring	EPDM
D	O-Ring	EPDM
E	O-Ring	EPDM
F	Self-driving spring	AISI 316
G	Frame	AISI 316

PUMP



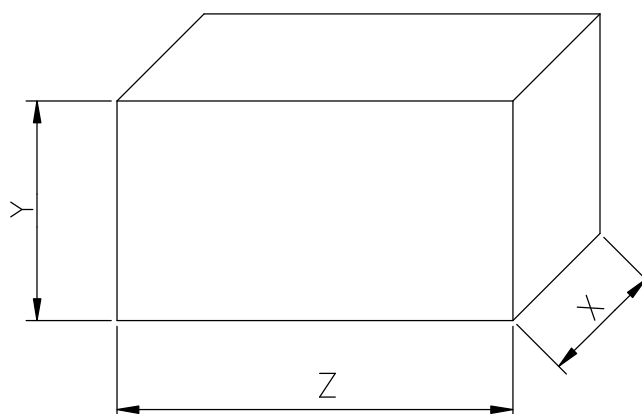
Pump type		Dimensions [mm]																							Weight [kgf]	
Single Phase	Three Phase	A	A1* [1~]	B [1~] [3~]	C	D	E	F	H	H1	H2	H3 [3~]	H4 [1~]	M	M1	N	N1	R	T [1~]	V [3~]	W	S	DNA	[1~]	[3~]	
2CDXM 70/10	2CDX 70/10	208	-	367 354	181	12.5	8	87	229	106	123	207	216	50	38	120	160	142	PG 11	M16x1.5	92.5	9	G1"½	14	12.6	
2CDXM 70/12	2CDX 70/12	208	210	367 366	181	12.5	8	87	229	106	123	207	235	50	38	120	160	142	PG 13.5	M16x1.5	92.5	9	G1"½	14	13.7	
2CDXM 70/15	2CDX 70/15	232	-	408 407	198.5	12.5	8	89	250	118	132	237	248.5	55	40	140	180	141.5	PG 13.5	M20x1.5	95	9	G1"½	20	17	
2CDXM 70/20	2CDX 70/20	232	-	395 407.5	198.5	12.5	8	89	250	118	132	237	248.5	55	40	140	180	141.5	PG 13.5	M20x1.5	95	9	G1"½	20	20.1	
2CDXM 120/15	2CDX 120/15	208	210	408 407	198.5	12.5	8	89	229	106	123	225	236.5	55	40	140	180	141.5	PG 13.5	M20x1.5	95	9	G1"½	18.5	15.6	
2CDXM 120/20	2CDX 120/20	208	210	395 407.5	198.5	12.5	8	89	229	106	123	225	236.5	55	40	140	180	141.5	PG 13.5	M20x1.5	95	9	G1"½	18.5	18.3	
-	2CDX 120/30	232	-	- 405	198.5	12.5	10	87	250	118	132	237	-	65	40	140	180	143.5	-	M20x1.5	95	9	G1"½	-	26.1	
-	2CDX 120/40	232	-	- 458	223.5 ÷ 234.5	12.5	10	87	250	118	132	242	-	65	40	140	180	143.5	-	M20x1.5	109	9	G1"½	-	27.8	
-	2CDX 200/30	208	-	- 458	223.5 ÷ 234.5	12.5	10	87	229	106	123	230	-	65	40	140	180	143.5	-	M20x1.5	109	9	G1"½	-	26.6	
-	2CDX 200/40	232	-	- 458	223.5 ÷ 234.5	12.5	10	87	250	118	132	242	-	65	40	140	180	143.5	-	M20x1.5	109	9	G1"½	-	27.6	
-	2CDX 200/50	232	-	- 481	232.5	16	12	87	250	118	132	259	-	68	50	160	210	143.5	-	M20x1.5	108.5	12	G1"½	-	35.6	

(*) Specified only if higher than "A"

[1~] Single phase

[3~] Three phase

PACKING



Pump type		Packing [mm]						Weight [kgf]	
Single Phase	Three Phase	X		Y		Z			
		[1~]	[3~]	[1~]	[3~]	[1~]	[3~]	[1~]	[3~]
2CDXM 70/10	2CDX 70/10	245	245	315	315	510	510	15	13.3
2CDXM 70/12	2CDX 70/12	245	245	315	315	510	510	15	14.6
2CDXM 70/15	2CDX 70/15	245	245	315	315	590	590	21	17.8
2CDXM 70/20	2CDX 70/20	245	245	315	315	590	590	21.5	21
2CDXM 120/15	2CDX 120/15	245	245	315	315	590	590	19.5	16.4
2CDXM 120/20	2CDX 120/20	245	245	315	315	590	590	20	19.3
-	2CDX 120/30	-	245	-	315	-	590	-	26.7
-	2CDX 120/40	-	245	-	315	-	590	-	28.8
-	2CDX 200/30	-	245	-	315	-	590	-	28.5
-	2CDX 200/40	-	245	-	315	-	590	-	28.6
-	2CDX 200/50	-	245	-	315	-	590	-	37.5

[1~] Single phase

[3~] Three phase