50Hz

Pentax®
WATER PUMPS

GENERAL CATALOGUE

www.pentax-pumps.it

HISTORY

For many years **Pentax** has held a large share of the world market for motorized pumps. The sales department is constantly working to better serve existing customers and to open up new markets. This is possible thanks to the wide range of products available which allows to cover most of the applications in the pump field. Special attention is also paid to market surveys, so that any new requirements can be immediately transferred to the research and development department: the best way to properly develop and forecast future scenarios.

1989
Pentax is the result of a strategy designed at the end of the '80s and oriented to the creation of a corporate body structured on the decentralization of production

1990
The company was born from the fusion of Elettromac and Zetabase, two realities with years of experience in the sector. Thanks to advanced technologies and a rationalization of the production process, in the 90's the company imposed itself on the market

1994
Foras joins the group

2000
Increase model production, number of customers and delivery speed

2010
The Pentax group expands again with the entry of Marly: a company specialized in the realization of industrial pumps

2018
The group, now leader in the sector, reaches a consolidated turnover of 70 million euros

2019
Start of works to expand the operational headquarters with the creation of a new logistics hub of more than 8,000 square meters

2022
Installation of the 500kW photovoltaic system and start of commercial office expansion work

MISSION

After more than **20 years of activity** we can finally trace the guidelines that have governed and directed the industrial development of **Pentax Industries SpA**. Actions and processes that have intersected with the obvious aim of creating value, benefits to be redistributed to the various components of the production and distribution process.

A rational allocation of available resources, together with a refined program of production decentralization have allowed the company to adapt to changing market conditions, each time with extreme rapidity.

Maximum attention to the markets, therefore, with the commitment to respond in real time to the specific needs of the different markets, paying particular attention to technological progress. All this in the perspective of a careful policy for **customer satisfaction**.

"Creating value is our main goal"

Gianluigi Pedrollo, Chair man

VALUES

Reliability
Choosing Pentax means choosing safety at every stage

Quality
Where there is control, there is reliability: the basis for success

Speed
Impeccable delivery time

Flexibility
Pentax studies each case thoroughly, identifies the best solution and then takes action with security

Variety
The best service: a wide range of Pentax products, one for every need

OFFICIAL JOURNAL OF THE EUROPEAN UNION

Regulation UE 547/2012
ANNEX II

«The benchmark for most efficient water pumps is MEI ≥ 0,70».
«The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter».
«The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system».
Information on benchmark efficiency is available at:
www.europump.org/efficiencycharts.


CERTIFICAT ◆ CERTIFICADO ◆ CERTIFICATE ◆ ZERTIFIKAT

CERTIFICATO

Nr. 50 100 3634 Rev.008

SI ATTESTA CHE / THIS IS TO CERTIFY THAT

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
THE QUALITY MANAGEMENT SYSTEM OF

PENTAX S.p.A.

SEDE LEGALE E OPERATIVA:
REGISTERED OFFICE AND OPERATIVE SITE:

VIALE DELL'INDUSTRIA 1
IT - 37040 VERONELLA (VR)

SEDI OPERATIVE: VEDI ALLEGATO 1 / OPERATIONAL SITES: SEE ANNEX 1

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 9001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE OF APPLICATION

Progettazione e fabbricazione di elettropompe e sistemi di pressurizzazione per acque. Commercializzazione di pompe sommerse e accessori per pompe (IAF 18, 29)

Design and manufacture of electric pumps and pressure systems for water. Trade of submersed pumps and accessories for pumps (IAF 18, 29)

ACCREDIA

Per l'Organismo di Certificazione / For the Certification Body
TÜV Italia S.r.l.

Validità / Validity
Dal / From: 2021-11-01
Al / To: 2024-10-31

Data emissione / Issuing Date
2021-10-25

Francesco Scarlata
Certification Body Business Assurance
Business Assurance Division Manager

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2003-12-22


CERTIFICAT ◆ CERTIFICADO ◆ CERTIFICATE ◆ ZERTIFIKAT

CERTIFICATO

Nr. 50 100 12552 Rev.003

SI ATTESTA CHE / THIS IS TO CERTIFY THAT

IL SISTEMA DI GESTIONE AMBIENTALE DI
THE ENVIRONMENTAL MANAGEMENT SYSTEM OF

PENTAX S.p.A.

SEDE LEGALE:
REGISTERED OFFICE:

VIALE DELL'INDUSTRIA 1
IT - 37040 VERONELLA (VR)

SEDI OPERATIVE: VEDI ALLEGATO 1 / OPERATIONAL SITES: SEE ANNEX 1

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI EN ISO 14001:2015

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE OF APPLICATION

Progettazione e fabbricazione di elettropompe e sistemi di pressurizzazione per acque mediante processi di lavaggio e impregnazione dei getti di ghisa, lavorazioni meccaniche, bilanciatura rotanti, assemblaggio, verniciatura, imballo e spedizione. Commercializzazione di pompe sommerse e accessori per pompe. Magazzino (IAF 18, 29)

Design and manufacture of electric pumps and pressure system for water by processes of: impregnation and cleaning of cast iron items, mechanical machining, impellers and motor shafts balancing, assembling, painting, packing and shipment. Trade of submersed pumps and accessories for pumps. Stock (IAF 18, 29)

CERTIFICAZIONE RILASCIATA IN CONFORMITÀ AL REGOLAMENTO TECNICO ACCREDIA RT-09
CERTIFICATION ISSUED IN ACCORDANCE TO ACCREDIA TECHNICAL REGULATION RT-09

ACCREDIA

Per l'Organismo di Certificazione / For the Certification Body
TÜV Italia S.r.l.

Validità / Validity
Dal / From: 2023-06-16
Al / To: 2026-06-15

Data emissione / Issuing Date:
2023-05-25

Francesco Scarlata
Certification Body Business Assurance
Business Assurance Division Manager

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2014-05-16


CERTIFICAT ◆ CERTIFICADO ◆ CERTIFICATE ◆ ZERTIFIKAT

CERTIFICATO

Nr. 50 100 14960 - Rev.002

Si attesta che / This is to certify that

IL SISTEMA DI GESTIONE SICUREZZA E SALUTE DEI LAVORATORI DI
THE OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM OF

PENTAX S.p.A.

SEDE LEGALE:
REGISTERED OFFICE:

VIALE DELL'INDUSTRIA 1
IT - 37040 VERONELLA (VR)

SEDI OPERATIVE: VEDI ALLEGATO 1
OPERATIONAL SITES: SEE ANNEX 1

È CONFORME AI REQUISITI DELLA NORMA
HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF

UNI ISO 45001:2018

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE

Progettazione e fabbricazione di elettropompe e sistemi di pressurizzazione per acque mediante processi di lavaggio e impregnazione dei getti di ghisa, lavorazioni meccaniche, bilanciatura rotanti, assemblaggio, verniciatura, imballo e spedizione. Commercializzazione di pompe sommerse e accessori per pompe. Magazzino (IAF 18, 29)

Design and manufacture of electric pumps and pressure system for water by processes of: impregnation and cleaning of cast iron items, mechanical machining, impellers and motor shafts balancing, assembling, painting, packing and shipment. Trade of submersed pumps and accessories for pumps. Warehouse (IAF 18, 29)

ACCREDIA

Per l'Organismo di Certificazione / For the Certification Body
TÜV Italia S.r.l.

Validità / Validity
Dal / From: 2021-02-27
Al / To: 2024-02-26

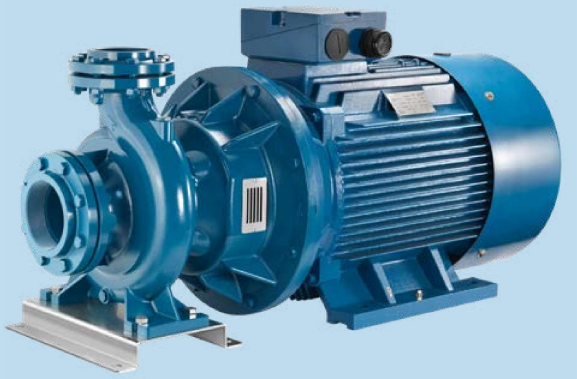
Data emissione / Issuing Date
2020-12-23

Andrea Coscia
Certification Body Business Assurance

PRIMA CERTIFICAZIONE / FIRST CERTIFICATION: 2018-02-27 (EMESSO DA ALTRO OdC / Issued by other CB)

CMG-CMGX ~ 2900 rpm

Centrifugal Flanged EN 733



Monobloc horizontal centrifugal pumps, constructed in compliance with EN 733 standards, with stub-shaft and bracket for coupling to standard motors; widely used in water supplies, pressurisation and fire-fighting systems; standard supply with counter-flange.

Construction features	
Pump body	cast iron (CMG) stainless steel AISI 316 (CMGX)
Motor bracket	cast iron
Impeller	cast iron, bronze, steel (CMG), steel (CMGX)
Mechanical seal	ceramic-graphite-NBR
Pump shaft end	stainless steel AISI 316
Liquid temperature	-10 ÷ +90 °C
Operating pressure	max 10 bar

Motor	
2 Poles induction motor	3~ 400/690V - 50Hz
Insulation class	F
Protection degree	IPX5

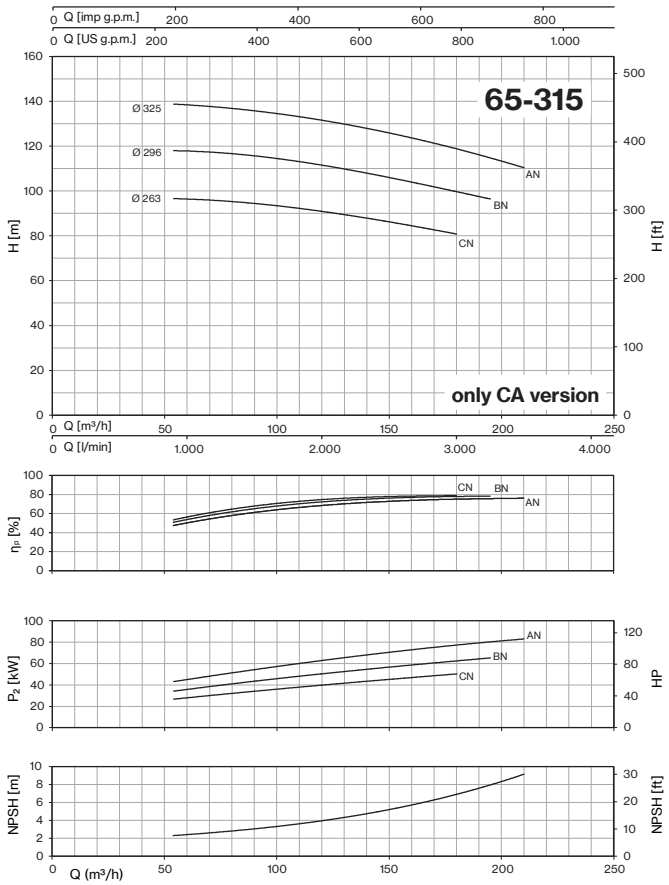
CMGX 80-250 A -X -2E -WF

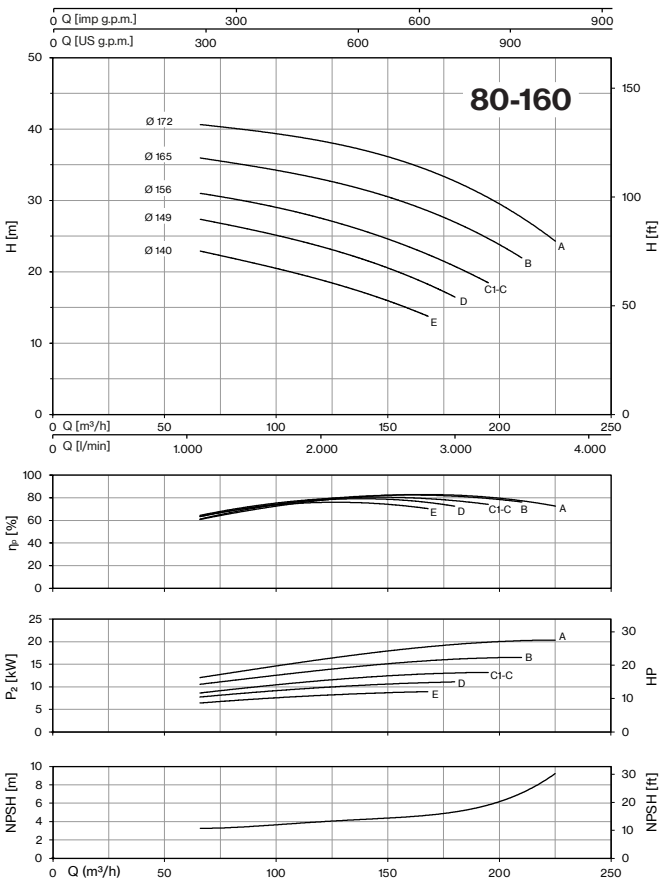
- pump type
- pump body material: (blank) cast iron; X AISI 316
- impeller material: (blank) as same as the pump body; B bronze; X AISI 316
- mech. seal and O-rings: (blank) standard; E EPDM; V FKM; 2E SiC-SiC-EPDM; 2V SiC-SiC-FKM
- counter flange: (blank) with; WF without

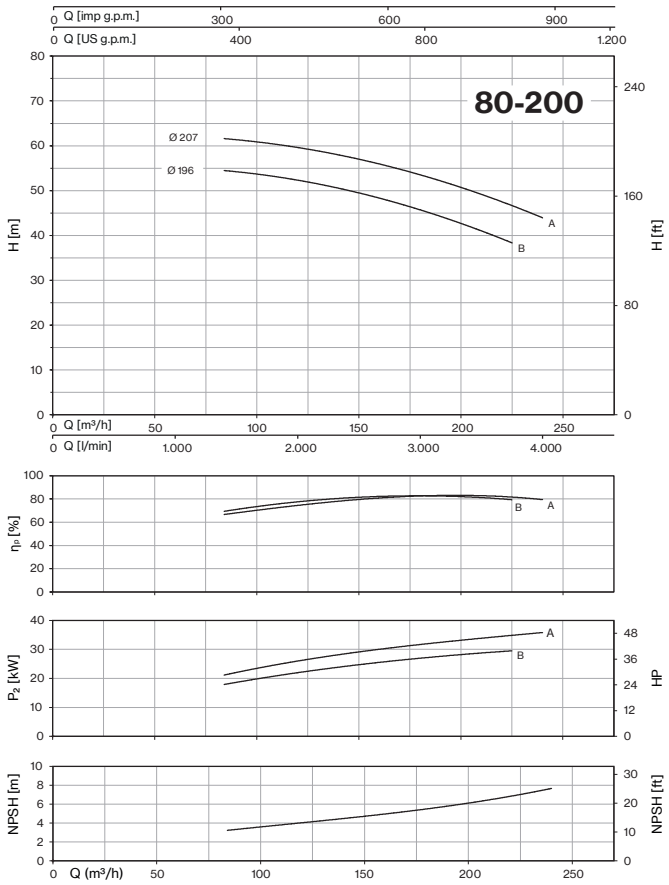
CMG-CMGX ~ 2900 rpm

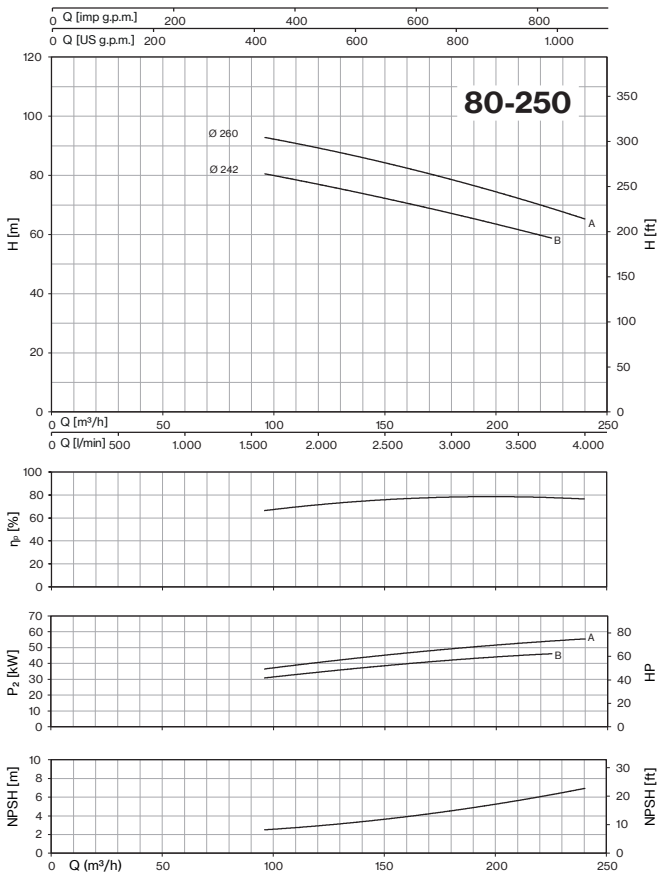
Centrifugal Flanged EN 733

TYPE	P2 (kW)	Motor Size	Q (m³/h - l/min)																		
			0	96	108	120	132	138	144	156	168	180	195	210	225	240	255	270	300	330	360
			0	1600	1800	2000	2200	2300	2400	2600	2800	3000	3250	3500	3750	4000	4250	4500	5000	5500	6000
			H (m) *pump input power (kW)*																		
80-250B	45	225M	77,2 *14,01*	80,0 *30,93*	79,0 *32,60*	77,5 *34,34*	75,3 *36,13*	74,2 *37,02*	73,1 *37,86*	71,0 *39,38*	69,0 *40,78*	67,0 *42,10*	64,5 *43,60*	61,8 *44,94*	58,8 *46,15*						
80-250A	55	250M	90,0 *16,74*	92,8 *36,56*	91,1 *38,57*	89,3 *40,54*	87,4 *42,46*	86,4 *43,39*	85,4 *44,31*	83,1 *46,12*	80,7 *47,81*	78,5 *49,29*	75,7 *50,92*	72,4 *52,59*	68,8 *54,18*	65,2 *55,50*					
100-200B	45	225M	56,1 *21,75*		56,8 *28,84*	56,5 *29,78*	56,1 *30,74*	55,9 *31,24*	55,6 *31,75*	55,1 *32,81*	54,5 *33,89*	53,9 *35,04*	53,1 *36,50*	52,2 *37,82*	51,4 *38,89*	50,4 *39,85*	49,0 *40,77*	47,5 *41,60*	43,8 *42,92*	39,7 *43,82*	
100-200A	55	250M	61,1 *24,57*		62,2 *33,04*	61,8 *34,07*	61,5 *35,11*	61,2 *35,64*	61,0 *36,18*	60,5 *37,28*	59,9 *38,39*	59,5 *39,49*	58,9 *40,86*	58,3 *42,23*	57,4 *43,60*	56,4 *44,97*	55,2 *46,20*	53,8 *47,28*	50,6 *49,05*	46,8 *50,53*	42,5 *51,62*
100-250C	55	250M	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		
	75	280S	*24,75*			*40,12*	*41,93*	*42,84*	*43,70*	*45,28*	*46,77*	*48,21*	*49,94*	*51,65*	*53,38*	*55,05*	*56,66*	*58,19*	*60,99*		
100-250B	75	280S	83,6 *29,69*			83,7 *47,10*	83,5 *49,06*	83,4 *50,04*	83,2 *51,01*	82,9 *52,92*	82,5 *54,76*	82,1 *56,47*	81,4 *58,46*	80,8 *60,26*	80,0 *61,86*	79,0 *63,49*	77,9 *65,17*	76,4 *66,93*	72,0 *70,91*	67,6 *73,78*	
100-250A	90	280M	93,5 *32,71*			93,9 *51,99*	93,7 *54,14*	93,5 *55,23*	93,4 *56,31*	92,9 *58,48*	92,4 *60,60*	91,8 *62,57*	90,9 *64,88*	89,9 *66,97*	88,8 *68,84*	87,4 *70,81*	85,7 *72,81*	84,0 *74,73*	80,4 *78,17*	75,8 *81,33*	73,2 *85,53*



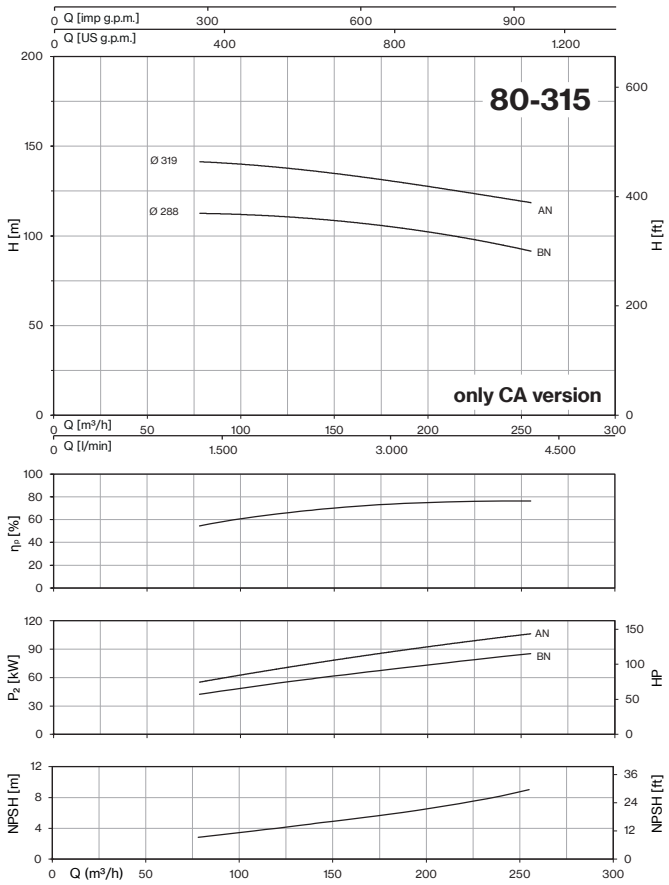


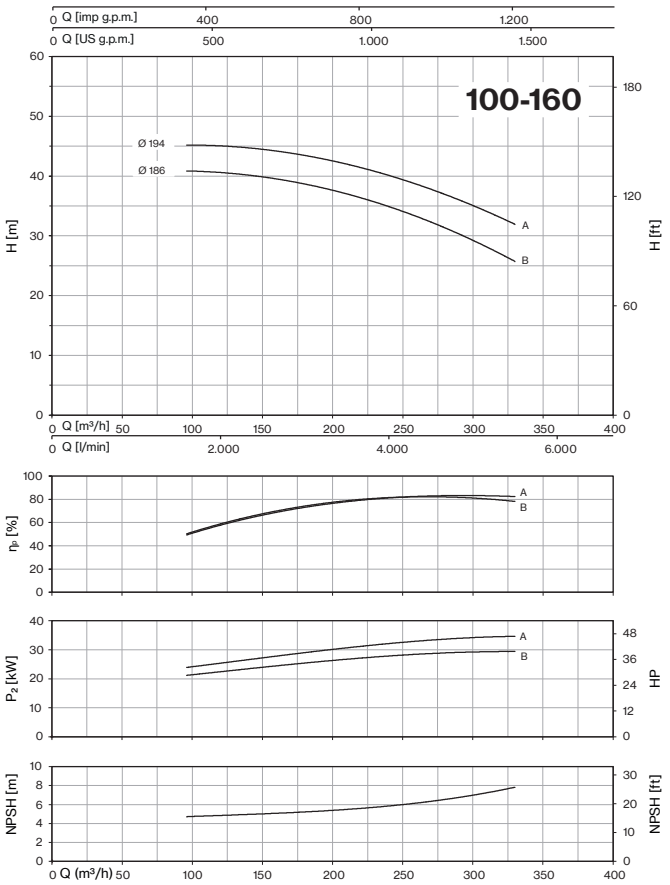


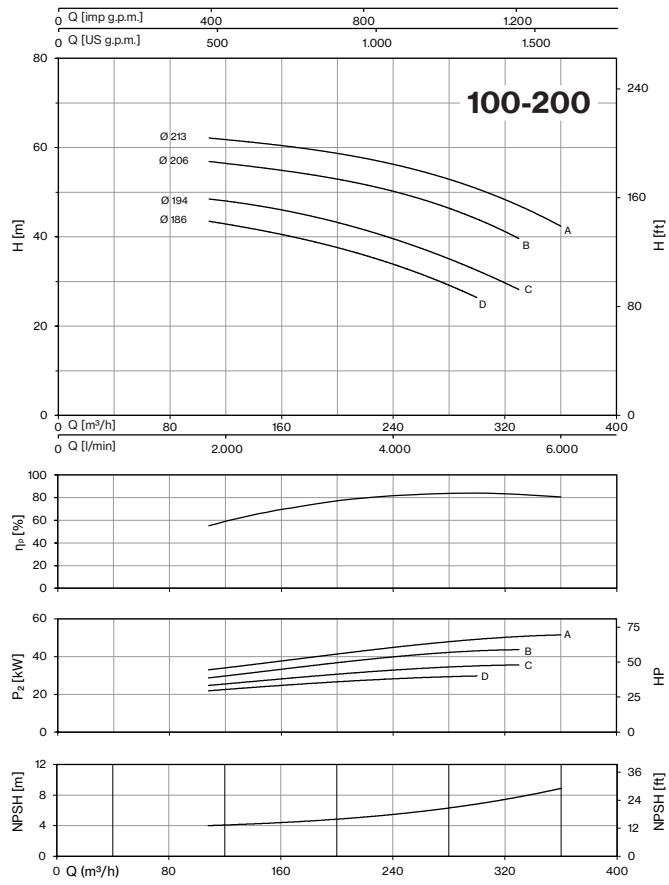


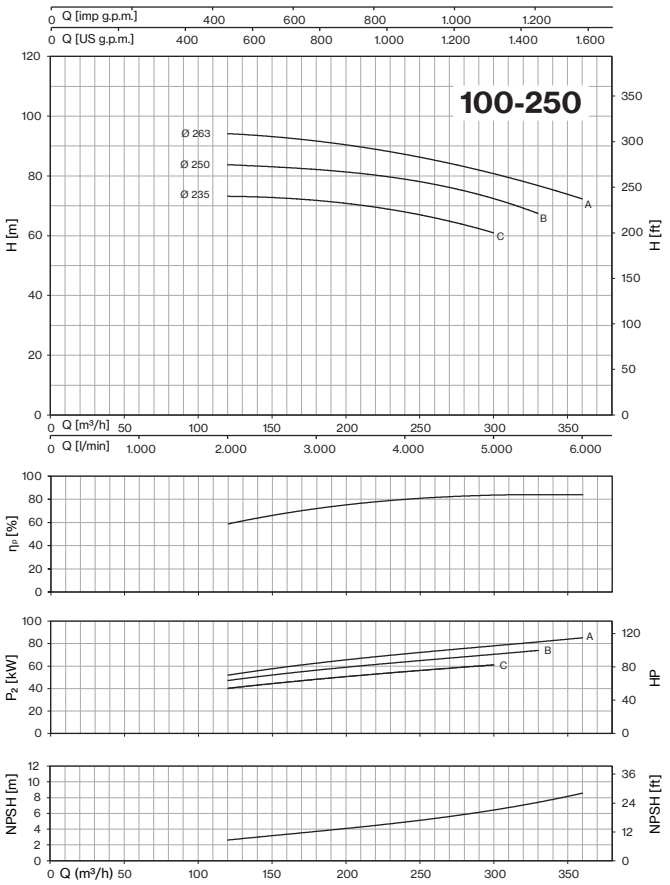
Tolerance: ISO 9906:2012 - Grade 3B
Check pumps availability on pages 84-85-86

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





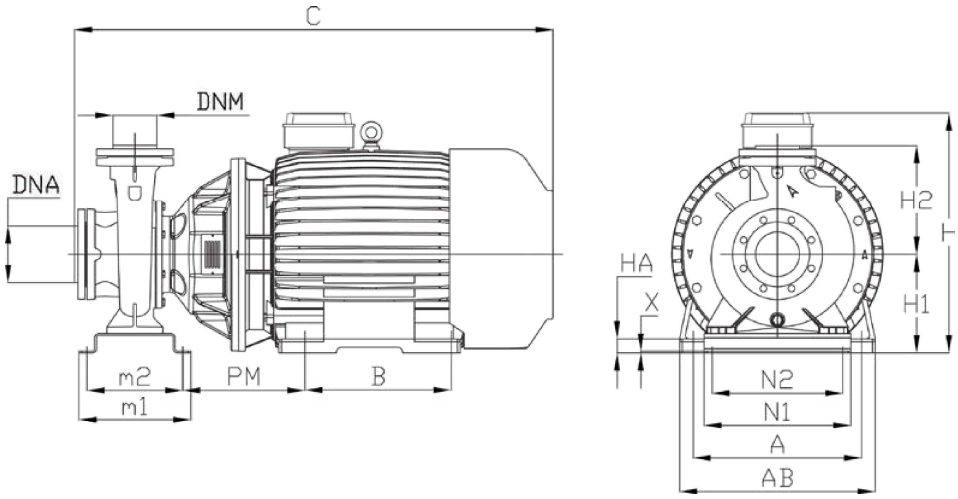




Tolerance: ISO 9906:2012 - Grade 3B

Check pumps availability on pages 84-85-86

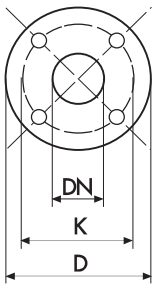
CMG-CMGX ~ *EN 733*



TYPE	DIMENSIONS (mm)															Kg
	DNA	DNM	m1	m2	N2	N1	H1	H2	H	A	AB	B	PM	C	HA	
80-250B	100	80	200	120	315	406	225	317	550	356	435	311	356	1130	28	418
80-250A			320	280	360	420	280	317	650	406	485	349	325	1240	58	505
100-200B	125	100	200	120	280	360	225	321	550	356	435	311	356	1130	28	417
100-200A			320	280	360	420	280	321	650	406	485	349	325	1240	60	505
100-250C			320	280	360	420	280	321	675	406	485	349	325	1315	60	516
100-250B			320	280	360	420	280	321	675	457	545	368	347	1315	35	645
100-250A			320	280	360	420	280	321	675	457	545	419	347	1370	35	680

DIMENSIONS (mm)				
DN	D	K	holes	
			n°	Ø
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18

flanges



CMG Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL			
					E	V	2E	2V
	80-250, 100-200, 100-250	45mm	***Rotating face*** ***Stationary face*** ***Elastomer***	CrNi-steel Graphite NBR	CrNi-steel Graphite EPDM	CrNi-steel Graphite FKM	SiC SiC EPDM	SiC SiC FKM

MOTOR BEARINGS	PUMP MODEL	TYPE	
	80-250, 100-200	6313-ZZ C3	6313-ZZ C3
	80-250, 100-200, 100-250	6314-ZZ C3	6314-ZZ C3