



Submersible Motors **50Hz**



Model Identification Code

XXX-XX X-XX

A = 110V; B = 180V; C = 200V; D = 220V; E = 230V; F = 240V; G = 300V; H = 350V;
 I = 380V; J = 400V; K = 415V; L = 440V; M = 460V; N = 525V; P = 575V;

Phase / Connection / Frequency

S - Single Phase / PSC / 50 Hz

D - Three Phase / DOL / 50 Hz

YD - Three Phase / Star Delta / 50 Hz

Power Rating in kW :

07 = 0.75 kW, 15 = 1.5 kW, 110 = 11kW, A10 = 110 kW

Motor Construction :

C - Cast Iron

S - SS 304

N - SS 316

Motor Size :

4 = 4", **6** = 6", **8** = 8", **10** = 10"

Motor Type :

OM - Oil Filled Motors

WM - Water Filled Motors

E - EFT

4" OIL FILLED MOTORS EOM-4S SERIES

Technical Specifications

Nominal Dia	4" (100mm)
Max. Outer Dia	95mm
Power Range	1 Ph > 0.37 to 2.2 kW 3 Ph > 0.37 to 7.5 kW
Version	1 Ph > 220 / 230 V 3 Ph > 380 - 415 V
Rated Speed	2850 rpm
Direction of rotation	Counter Clockwise
Protection	IP 68
Insulation	Class F
Duty	S1 continuous
Max. Submergence Depth	150m
Max. Liquid Temp.	33°C
Min. cooling flow	0.15 m/s
Max. Starts per hour	20 times
Starting method	1 Ph - CSR 3 Ph - DOL
Shaft & Mounting	NEMA Standard
Cable leadout	Permanently Connected 3 & 4 Core EPDM flat cable



Material of Construction

Motor Shell	SS 304
Motor Shaft	SS 410
Upper Bearing	Ball Bearing
Lower Bearings	Angular Contact Bearing
Lead Cable	EPDM Rubber Cable
Oil Seal	NBR
Diaphragm	NBR
Mechanical Seal	Carbon / Ceramic

Features

- SS304 Motor body to prevent corrosion
- Low power consumption and high operating efficiency
- Pre-filled with food grade oil
- Easy to dismantle and service
- Mounting dimensions as per NEMA standard
- Carbon ceramic Mechanical seal
- Angular contact type lower bearings

Applications

- Domestic
- Irrigation
- Industries
- Sprinkler
- Mining
- Booster systems
- Gardens
- Fountains, etc...

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Technical Data

Single Phase 230V, 3 Wire Motor (CSR)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Capacitor (MFD)	Torque (Nm)	Thrust Load (N)
EOM-4S 03-SE	0.37	0.5	3.6	10.4	53	0.88	15	1.24	1500
EOM-4S 05-SE	0.55	0.75	4.8	13.6	58	0.89	20	1.84	1500
EOM-4S 07-SE	0.75	1	6.3	17.6	60	0.90	30	2.5	1500
EOM-4S 11-SE	1.1	1.5	8.6	21.1	64	0.90	40	3.6	2500
EOM-4S 15-SE	1.5	2	10	26.4	70	0.94	50	5	2500
EOM-4S 22-SE	2.2	3	14	39.9	74	0.96	60	7.35	2500

Three Phase 380V Motor (D.O.L.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Torque (Nm)	Thrust Load (N)
EOM-4S 03-DI	0.37	0.5	1.07	5.2	63	0.8	1.24	1500
EOM-4S 05-DI	0.5	0.75	1.9	9.3	63	0.8	1.84	1500
EOM-4S 07-DI	0.75	1	2.4	11.1	64	0.81	2.5	1500
EOM-4S 11-DI	1.1	1.5	3.15	13	88	0.82	3.6	2500
EOM-4S 15-DI	1.5	2	4.2	19.5	72	0.82	5	2500
EOM-4S 22-DI	2.2	3	6	28	72	0.83	7.35	2500
EOM-4S 30-DI	3	4	7.8	40.2	75	0.83	10	2500
EOM-4S 37-DI	3.7	5	9.6	48	75	0.83	13.4	2500
EOM-4S 40-DI	4	5.5	10	51	77	0.83	13.4	2500
EOM-4S 55-DI	5.5	7.5	13.6	71.1	78	0.85	18.4	4500
EOM-4S 75-DI	7.5	10	17.6	87.8	79	0.85	25	4500

Dimensional Details

Single Phase 230V, 3 Wire Motor (CSR)

Model	kW	HP	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
EOM-4S 03-SE	0.37	0.5	357	8	1.5	1.5
EOM-4S 05-SE	0.55	0.75	377	8	1.5	1.5
EOM-4S 07-SE	0.75	1	402	10	1.5	1.5
EOM-4S 11-SE	1.1	1.5	432	11	1.5	1.5
EOM-4S 15-SE	1.5	2	475	11	2	1.5
EOM-4S 22-SE	2.2	3	520	14	2.3	2

Three Phase 380V Motor (D.O.L.)

Model	kW	HP	Height (mm)	Weight (kg)	Cable Size (Sq mm)	Cable Length (m)
EOM-4S 03-DI	0.37	0.5	392	8	1.5	1.5
EOM-4S 05-DI	0.5	0.75	407	8	1.5	1.5
EOM-4S 07-DI	0.75	1	427	10	1.5	1.5
EOM-4S 11-DI	1.1	1.5	447	11	1.5	1.5
EOM-4S 15-DI	1.5	2	482	11	1.5	1.5
EOM-4S 22-DI	2.2	3	542	14	1.5	2
EOM-4S 30-DI	3	4	602	19	2	2
EOM-4S 37-DI	3.7	5	602	19	2	2
EOM-4S 40-DI	4	5.5	642	21	2	2
EOM-4S 55-DI	5.5	7.5	762	25	2.3	3
EOM-4S 75-DI	7.5	10	882	31	2.3	3

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4" WATER FILLED MOTORS

EWM-4S SERIES

Technical Specifications

Nominal Dia	4" (100mm)
Max. Outer Dia	95mm
Power Range	1 Ph > 0.37 to 2.2 kW 3 Ph > 0.37 to 7.5 kW
Version	1 Ph > 220 / 230 V 3 Ph > 380 - 415 V
Rated Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP 58
Direction of rotation	Counter-clock wise
Type of duty	S1 continuous
Minimum cooling flow	0.15 m/sec
Max. Liquid temp.	33°C
starts per hour	20 Times
Method of starting	1Ph-Capacitor Start Capacitor Run (CSCR) 3Ph-Direct On Line (DOL)
Cable lead-out	Permanently Connected 3 & 4 Core PVC Flat Cable



Material of Construction

Upper & Lower Housing	Casted SS 304
Stator Shell	SS 304
Thrust Pad	CARBON / TEFLON
Thrust Bearing	SS 304 / SS 420
Diaphragm	NITRILE RUBBER
Motor Base	SS 304
Upper housing shell	SS 304
Shaft	SS 420 / 431
Sleeve	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsbury type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- Low Voltage motors can be supplied, on request

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Technical Specifications

Single Phase, 230V Water Filled Motor (CSCR)

Model	HP	kW	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
EWM-4S 03-SE	0.37	0.5	5.3	10.4	42	0.80	3000	2	1.2
EWM-4S 05-SE	0.55	0.75	6.2	13.6	45	0.80	3000	2.9	1.8
EWM-4S 07-SE	0.75	1	7.5	17.6	50	0.90	3000	4.1	2.5
EWM-4S 11-SE	1.1	1.5	10.5	21.1	53	0.90	3000	6.1	3.7
EWM-4S 15-SE	1.5	2	13.8	26.4	55	0.90	3000	8.3	4.9
EWM-4S 22-SE	2.2	3	19.8	39.9	60	0.90	6500	13.3	7.4

Three Phase, 380 - 415V Water Filled Motor (D.O.L)

Model	HP	kW	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
EWM-4S 03-DK	0.37	0.5	3.25	5.2	60	0.75	3000	2.2	1.2
EWM-4S 05-DK	0.55	0.75	3.5	9.3	60	0.75	3000	3.4	1.9
EWM-4S 07-DK	0.75	1	3.75	11.1	61	0.75	3000	4.5	2.5
EWM-4S 11-DK	1.1	1.5	4	13	63	0.75	3000	6.7	3.7
EWM-4S 15-DK	1.5	2	4.8	19.5	67	0.80	3000	9	5
EWM-4S 22-DK	2.2	3	6.9	28	69	0.80	6500	14.1	7.5
EWM-4S 30-DK	3	4	9	40.2	70	0.80	6500	19	10
EWM-4S 37-DK	3.7	5	10.6	48	70	0.82	6500	22	12.4
EWM-4S 40-DK	4	5.5	11	51	71	0.82	6500	23	13.1
EWM-4S 55-DK	5.5	7.5	15.5	87.8	72	0.82	6500	33.7	18.7
EWM-4S 75-DK	7.5	10	19.8	119	72	0.82	6500	45.5	25

Dimensional Details

Model	HP	kW	Cable Size (mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
EWM-4S 03-SE	0.37	0.5	1.0	2.75	472.5	16.6
EWM-4S 05-SE	0.55	0.75	1.5	2.75	492.5	17.4
EWM-4S 07-SE	0.75	1	1.5	2.75	512.5	19
EWM-4S 11-SE	1.1	1.5	12.5	2.75	547.5	20
EWM-4S 15-SE	1.5	2	12.5	2.75	639.5	22
EWM-4S 22-SE	2.2	3	12.5	2.75	662.5	25.4
EWM-4S 03-DK	0.37	0.5	1.0	2.75	472.5	15.5
EWM-4S 05-DK	0.55	0.75	1.0	2.75	492.5	18
EWM-4S 07-DK	0.75	1	1.0	2.75	512.5	19.5
EWM-4S 11-DK	1.1	1.5	1.0	2.75	547.5	20.5
EWM-4S 15-DK	1.5	2	1.0	2.75	639.5	22.5
EWM-4S 22-DK	2.2	3	1.5	2.75	662.5	26
EWM-4S 30-DK	3	4	1.5	2.75	722.5	28
EWM-4S 37-DK	3.7	5	12.5	2.75	762.5	31
EWM-4S 40-DK	4	5.5	2.5	2.75	762.5	31
EWM-4S 55-DK	5.5	7.5	2.5	3.20	852.5	36
EWM-4S 75-DK	7.5	10	2.5	3.20	1120.0	43

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6" WATER FILLED REWINDABLE MOTORS

EWM-6C / 6S / 6N SERIES

Technical Specifications

Nominal Dia	6" (150mm)
Max. Outer Dia	144mm
Power Range	4 to 45 kW
Version	3 Ph > 380-415V, A.C. Supply
Rated Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP58 / IP68
Direction of rotation	Counter-clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.15 m/sec
Max. Liquid temp.	33°C / 70°C (PE2-PA Winding)
Starts per hour	20 Times
Method of starting	4.0 to 45kW Direct On Line (DOL) 5.5 to 45kW Star Delta (SD)
Cable lead-out	Permanently Connected 3 & 4 Core PVC Flat Cable

Material of Construction

SERIES	6C	6S	6N
Upper & Lower Housing	CI, FG 200 / 260	Casted SS 304	Casted SS 316
Stator Shell	SS 202	SS 304	SS 316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS 304 / SS 420	SS 316 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS 304	SS 316
Upper housing shell	CI, FG 200/260	CI, FG 200/260	CI, FG 200/260
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsburry type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- On request, Motors can be supplied with PE2-PA winding wire for high temp. applications
- Motors with Mechanical Seal & PT sensors available, on request



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Technical Specifications

50Hz, Three Phase 380-415V, Water Filled Motor (D.O.L. & S.D.)

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
EWM-6S 40-DK	4	5.5	10	43	73	0.75	15500	20	14
EWM-6S 45-DK	4.5	6	12	48	75	0.75	15500	21	15
EWM-6S 55-DK	5.5	7.5	14.5	52	77	0.75	15500	24	18
EWM-6S 75-DK	7.5	10	19.5	70	78	0.78	15500	27	25
EWM-6S 93-DK	9.3	12.5	25	84	79	0.78	15500	35	31
EWM-6S 110-DK	11	15	29	102	80	0.80	15500	43	37
EWM-6S 130-DK	13	17.5	34	118	80.5	0.80	15500	51	43
EWM-6S 150-DK	15	20	39	148	81	0.80	15500	62	49
EWM-6S 185-DK	18.5	25	45	188	82	0.82	15500	98	61
EWM-6S 220-DK	22	30	54	225	82	0.82	15500	118	74
EWM-6S 260-DK	26	35	66	270	82	0.83	27500	138	86
EWM-6S 300-DK	30	40	72	355	82	0.83	27500	196	98
EWM-6S 370-DK	37	50	85	420	82	0.82	27500	242	122
EWM-6S 450-DK	45	60	96	464	82	0.82	27500	393	150

**For Star Delta motors replace the Suffix "D" with "YD"

Dimensional Details

Model	kW	HP	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
EWM-6S 40-DK	4	5.5	4	-	2.75	646	51.0
EWM-6S 45-DK	4.5	6	4	-	2.75	661	53.0
EWM-6S 55-DK	5.5	7.5	4	2.5	2.75	716	59.0
EWM-6S 75-DK	7.5	10	4	2.5	2.75	761	65.0
EWM-6S 93-DK	9.3	12.5	6	2.5	2.75	791	69.0
EWM-6S 110-DK	11	15	6	4	2.75	851	76.0
EWM-6S 130-DK	13	17.5	10	4	3.25	881	79.0
EWM-6S 150-DK	15	20	10	4	3.25	931	85.0
EWM-6S 185-DK	18.5	25	10	4	3.25	981	92.0
EWM-6S 220-DK	22	30	10	4	3.25	1071	100.0
EWM-6S 260-DK	26	35	10	6	4.25	1185	105
EWM-6S 300-DK	30	40	16	6	4.25	1236	110
EWM-6S 370-DK	37	50	16	6	5.25	1312	112
EWM-6S 450-DK	45	60	16	10	5.25	1387	120

**For Star Delta motors replace the Suffix "D" with "YD"

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8" WATER FILLED REWINDABLE MOTORS

EWM-8S SERIES

Technical Specifications

Nominal Dia	8" (200mm)
Max. Outer Dia	190mm
Power Range	37 to 93 kW
Version	3 Ph > 380-415 V, A.C. Supply
Rated Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP 68
Direction of rotation	Counter-Clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.16 m/sec
Max. Liquid temp.	33°C
Starts per hour	10 Times
Method of starting	37 kW - 93 kW (DOL & S.D.)
Cable lead-out	3 & 4 Core PVC Flat Cable

Material of Construction

SERIES	4C	4S	4N
Upper & Lower Housing	CI, FG 200/260	Casted SS 304	Casted SS 316
Stator Shell	SS 202	SS 304	SS 316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS 304 / SS 420	SS 316 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS 304	SS 316
Upper housing shell	CI, FG 200/260	SS 304	SS 316
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
- Specially designed 3 layered Insulation (Polyster+2BOPP) winding wire for better thermal protection
- Spl. Magnet provision at motor base to prevent from free metal particles
- Mounting dimensions as per NEMA standard
- Kingsburry type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- Specially designed forged MS stator end rings
- On request, Motors can be supplied with PE2-PA winding wire for high temp. applications
- Motors with Mechanical Seal & PT sensors available, on request



In view of continuous improvements in our design and process, the information, dimensions and specifications given herein are subject to change without notice.

Technical Specifications

50Hz, Three Phase, 380-415V Water Filled Motor

Model	HP	kW	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. cosØ	Max. Down thrust Load (N)	Starting Torque (Nm)	Torque (Nm)
EWM-8C 370-DK	37	50	85	400	82	0.84	45500	200	122
EWM-8C 450-DK	45	60	100	520	82	0.84	45500	268	149
EWM-8C 550-DK	55	75	120	660	83	0.84	45500	370	180
EWM-8C 630-DK	63	85	135	720	83	0.84	45500	410	206
EWM-8C 750-DK	75	100	156	935	84	0.85	45500	520	246
EWM-8C 930-DK	93	125	190	1265	86	0.85	45500	680	306

**For Star Delta motors replace the Suffix "D" with "YD"

Dimensional Details

Model	HP	kW	Cable Size D.O.L. (sq. mm)	Cable Size S.D. (sq. mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
EWM-8C 370-DK	37	50	16.0	10	3.5	1236.5	166.0
EWM-8C 450-DK	45	60	16.0	10	3.5	1351.5	188.0
EWM-8C 550-DK	55	75	25.0	25	4.0	1431.5	203.0
EWM-8C 630-DK	63	85	25.0	25	4.0	1491.5	213.0
EWM-8C 750-DK	75	100	35.0	25	5.0	1561	230
EWM-8C 930-DK	93	125	35	35	5.0	1634	245

**For Star Delta motors replace the Suffix "D" with "YD"

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10" WATER FILLED REWINDABLE MOTORS

EWM-10S SERIES

Technical Specifications

Nominal Dia	10" (250mm)
Max. Outer Dia	231mm
Power Range	81 to 185 kW
Version	3Ph > 380-415 V, A.C. Supply
Rated Speed	2900 rpm
Class of Insulation	Y
Degree of protection	IP 68
Direction of rotation	Counter-clock Wise
Type of duty	S1 (Continues)
Minimum cooling flow	0.5 m/sec
Max. Liquid temp.	33°C
Starts per hour	10 Times
Method of starting	81 - 185 kW (DOL & S.D.)
Cable lead-out	3 & 4 Core PVC Flat Cable

Material of Construction

SERIES	10C	10S	10N
Upper & Lower Housing	CI,FG 200/260	Casted SS 304	Casted SS 316
Stator Shell	SS 202	SS 304	SS 316
Thrust Pad	CARBON / TEFLON	CARBON / TEFLON	CARBON / TEFLON
Thrust Bearing	CI, FG 200/ SS 420	SS 304 / SS 420	SS 316 / SS 420
Diaphragm	NITRILE RUBBER	NITRILE RUBBER	NITRILE RUBBER
Motor Base	CI, FG 200/260	SS 304	SS 316
Upper housing shell	CI, FG 200/260	SS 304	SS 316
Shaft	SS 420/431	SS 420/431	SS 420/431
Sleeve	SS 410	SS 410	SS 410

Features

- Easy to dismantle & repair
- High Operating Efficiency
- Mounting dimensions as per NEMA standard
- Kingsbury type Thrust bearing to withstand high axial loads
- Spring action pressure compensating Diaphragm
- On request, Motors can be supplied with PE2-PA winding wire for high temp. applications.
- Motors with Mechanical Seal & PT sensors available, on request



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Technical Specifications

Three Phase, 380-415V Water filled motor

Model	kW	HP	Full load Current (A)	Starting Current (A)	Eff. (%)	P.F. % cosØ	Max. Down thrust Load (N)
EWM-10C 810-DK	81	110	153	590	85	0.89	75000
EWM-10C 930-DK	93	125	174	671	85	0.89	75000
EWM-10C A10-DK	110	150	210	811	85	0.88	75000
EWM-10C A30-DK	130	175	238	919	87	0.89	75000
EWM-10C A50-DK	150	200	274	1059	87	0.89	75000
EWM-10C A65-DK	165	225	309	1196	86	0.89	75000
EWM-10C A85-DK	185	250	349	1348	85	0.89	75000

**For Star Delta motors replace the Suffix "D" with "YD"

Dimensional Details

Three Phase, 380-415V Water filled motor

Model	kW	HP	Cable Size D.O.L. (sq.mm)	Cable Size S.D. (sq.mm)	Cable Length (m)	Height (mm)	Net Weight (kg)
EWM-10C 810-DK	81	110	25	16	4	1370	225
EWM-10C 930-DK	93	125	25	16	4	1430	274
EWM-10C A10-DK	110	150	25(2)	25	4	1510	299
EWM-10C A30-DK	130	175	25(2)	25	4	1610	328
EWM-10C A50-DK	150	200	35(2)	35	4	1740	368
EWM-10C A65-DK	165	225	35(2)	35	4	1820	402
EWM-10C A85-DK	185	250	35(2)	35	4	1820	436

**For Star Delta motors replace the Suffix "D" with "YD"

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AGRICULTURE



IRRIGATION



BUILDING SEGMENT



INDUSTRIAL



FIRE FIGHTING



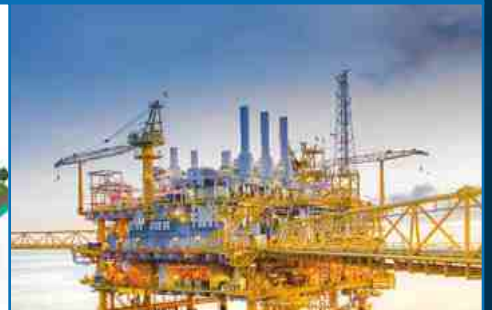
DEWATERING



RESIDENTIAL



WATER DISTRIBUTION



OIL & GAS



MINING



CONSTRUCTION



HVAC