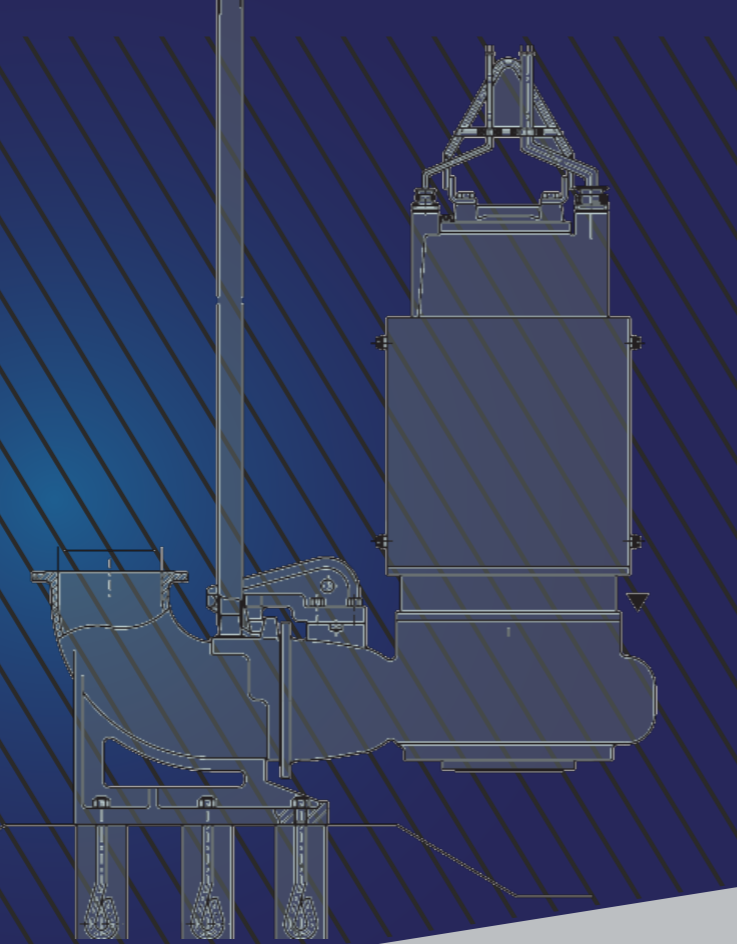




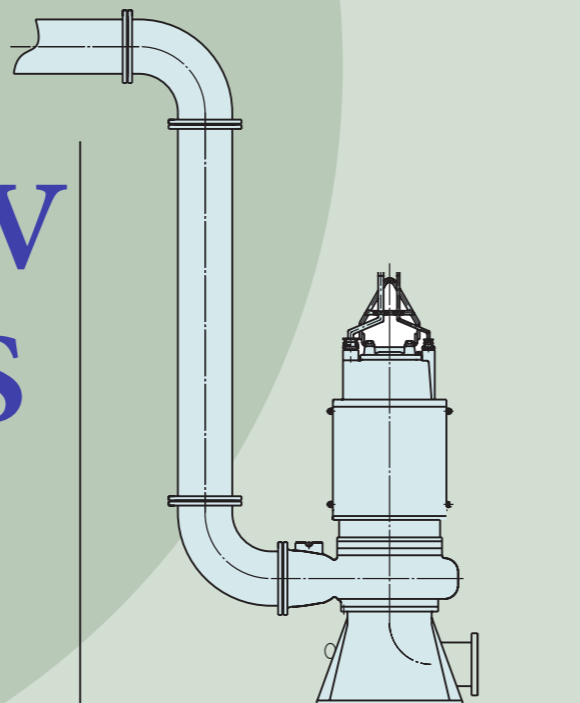
RANELLI

Water Systems

Submercible Sewage Pumps



WQ - WQV SERIES



CE

www.ravelliwatersystems.com
commercial@ravelliwatersystems.com

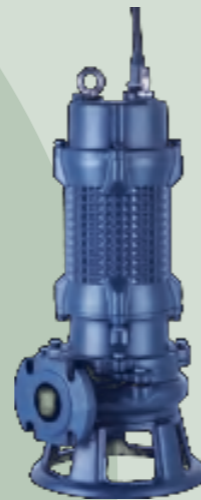


**Our first principle is:
"Absolute Quality"**

It is always a part of our service policy to maximize customer satisfaction.

We know very well that being a trusted partner is not an easy process.

Our quality standards for our manufacturing, sales and after-sales services have been audited in accordance with the requirements and certified by authorized institutions. For this reason, Tork has the required ISO 9001:2015 Quality Management Systems Certifications and CE Attestation of Conformity Certifications.



WQV
Vortex cutting submersible pump
Vórtice bomba sumergible de corte
Pompe submersible de coupe Vortex

NEW/NUEVO/NOUVEAU

DESCRIPTION/DESCRIPCIONES/DESCRIPTION

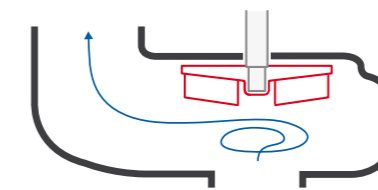
- ◆ Complete range with a full series submersible sewage pumps
- ◆ Better hydraulic characteristics
- ◆ Pump case in heavy gauge robust cast iron HT250
- ◆ Casing resistant to abrasion and long-lasting
- ◆ YE3 high efficient motor, with protection IP68 class F
- ◆ Impeller in two vanes, non-clogging, close but big fluid channels
- ◆ Discharge port with bolts, nuts and gaskets
- ◆ Gamme complète avec une série complète de pompes pour eaux usées
- ◆ Meilleures caractéristiques hydrauliques
- ◆ Carter de pompe en fonte robuste de fort calibre HT250
- ◆ Boîtier résistant à l'abrasion et durable
- ◆ Moteur haute efficacité YE3, avec protection IP68 classe F
- ◆ Roue à deux aubes, non obstruante, type à canaux étroits mais gros
- ◆ Orifice de décharge avec boulons, écrous et joints

TECHNICAL DATA/DATOS TÉCNICOS/DONNÉES TECHNIQUES

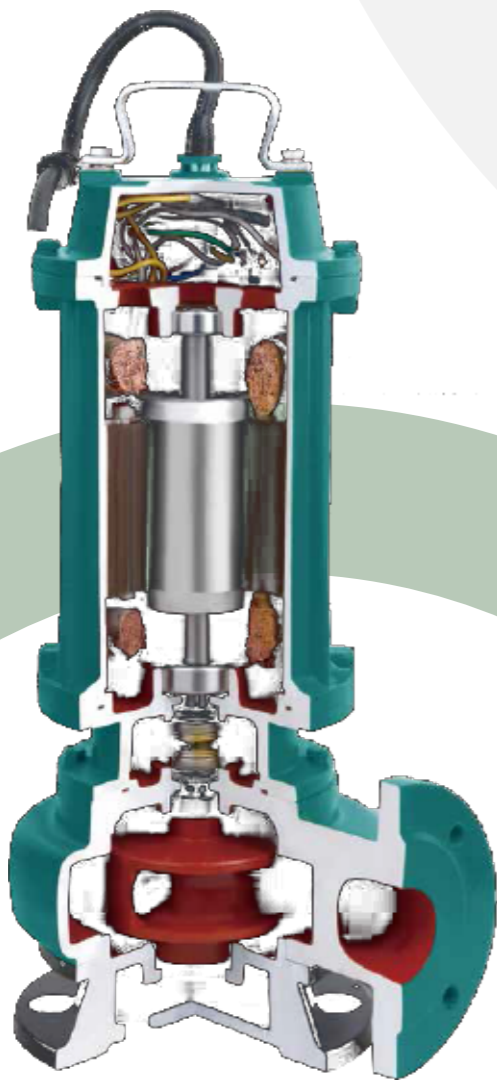
50 Hz n=2900/1450 1/min

MODEL/MODELO/MODÈLE		Power Potencia/Puissance		Rated Q	Rated H	RPM	DN	KGS	DIM
Single-phase Monofásico/Monophasé	Three-phase Trifásico/Triphasé	hp	kw	m³/h	m		mm		cm
40WQV10-10-0.75D	40WQV10-10-0.75	1	0.75	10	10	2900	40	22.5	48*20*22
40WQV12-10-1.1D	40WQV12-10-1.1	1.5	1.1	12	10	2900	40	23.7	48*20*22
50WQV10-10-0.75D	50WQV10-10-0.75	1	0.75	10	10	2900	50	22.5	48*20*22
50WQV12-10-1.1D	50WQV12-10-1.1	1.5	1.1	12	10	2900	50	23.7	48*20*22
50WQV15-15-1.5D	50WQV15-15-1.5	2	1.5	15	15	2900	50	36.5	60*27*25
-	50WQV9-22-2.2	3	2.2	9	22	2900	50	40.1	61*29*29
-	65WQV25-15-2.2	3	2.2	25	15	2900	65	41.4	61*29*29
-	80WQV45-9-2.2	3	2.2	45	9	2900	80	43.4	61*29*29
-	50WQV20-22-3	4	3	20	22	2900	50	45.8	63*26*30
-	65WQV35-15-3	4	3	35	15	2900	65	46.6	63*26*30
-	80WQV43-13-3	4	3	43	13	2900	80	47.4	63*26*30
-	65WQV25-22-4	5.5	4	25	22	2900	65	52.2	64*29*32
-	80WQV45-17-4	5.5	4	45	17	2900	80	52.9	64*29*32
-	80WQV30-25-4	5.5	4	30	25	2900	80	53.5	64*29*32
-	80WQV45-20-5.5	7.5	5.5	45	20	2900	80	62.5	73*29*34
-	100WQV65-15-5.5	7.5	5.5	65	15	2900	100	63.6	73*29*34
-	80WQV45-22-7.5	10	7.5	45	22	2900	80	72	73*31*35
-	100WQV100-13-7.5	10	7.5	100	13	2900	100	73.5	73*31*35
-	100WQV80-25-11	15	11	80	25	1450	100	187	96*53*44
-	150WQV150-15-11	15	11	150	15	1450	150	201	101*52*42
-	100WQV80-30-15	20	15	80	30	1450	100	208	100*53*44
-	150WQV200-15-15	20	15	200	15	1450	150	222	105*52*42
-	150WQV250-15-18.5	25	18.5	250	15	1450	150	286	115*57*44
-	200WQV350-12-18.5	25	18.5	350	12	1450	200	294	120*58*46
-	150WQV300-15-22	30	22	300	15	1450	150	307	125*57*44
-	200WQV400-10-22	30	22	400	10	1450	200	324	120*58*46
-	200WQV350-15-30	40	30	350	15	1450	200	440	135*57*67
-	250WQV600-10-30	40	30	600	10	1450	250	440	140*60*67

IMPELLER TYPE/TIPO DE IMPULSOR/TYPE ROUE



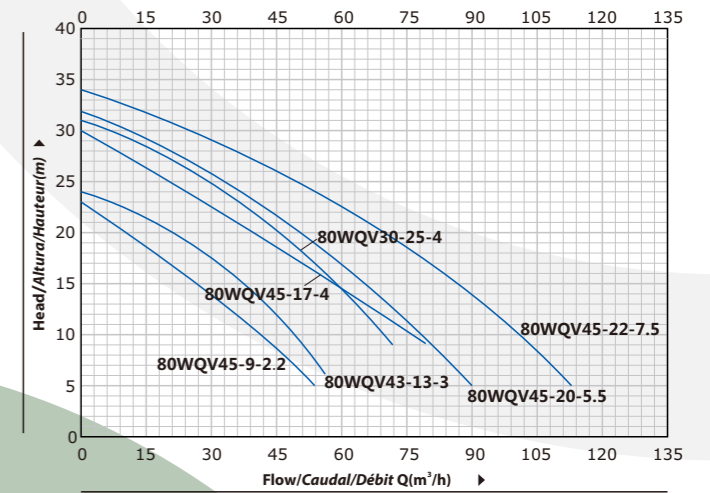
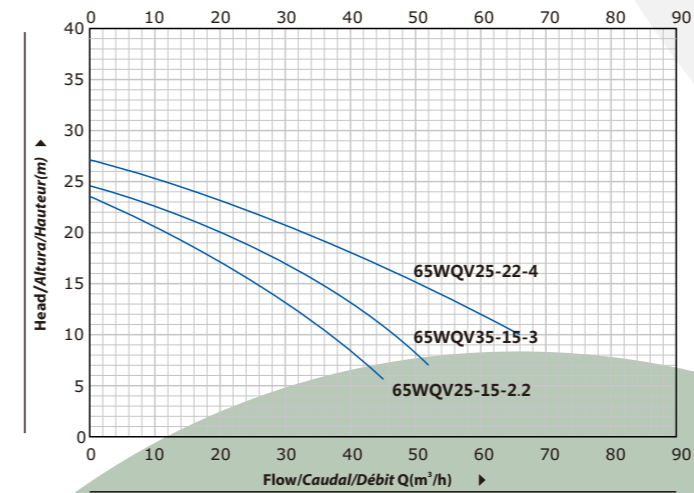
VORTEX



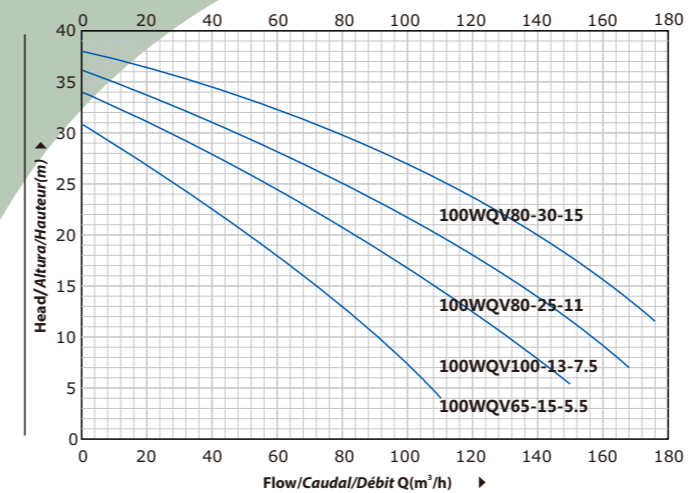
Description Descripción Description	Material Material Matériel
Motor cover Tapa de motor Capot moteur	Cast iron Fundición Fonte
Plate Plato Assiette	Cast iron Fundición Fonte
Motor Case Cuerpo de Motor Boîtier du moteur	Cast iron Fundición Fonte
Wound Stator/Rotor Estator/Rotor Stator/Rotor de blessure	Silicon Steel/Copper Silicio-Cobre Silicium-Cuivre
Bearing Rodamiento Palier	Ball Bearing Bola Rodamiento Palier Balle
Shaft Eje Arbre	SS304-45# Steel Inox 304/Hierro Inox304-Acier
Chamber Sala Chambre	Cast iron Fundición Fonte
Output flange Brida de salida Bride de sortie	Cast iron Fundición Fonte
Base Base Base	Cast iron Fundición Fonte
Cutter plate Placa de corte Plaque de coupe	Alloy 48HR Aleación 48HR Alliage 48HR
Pump Case Cuerpo de Bomba Boîtier de pompe	Cast iron Fundición Fonte
Impeller Nut Nuez Noix	Galvanized Steel Acero Galvanizado Acier Galvanisé
Impeller Impulsor Roue	Alloy 48HR Aleación 48HR Alliage 48HR
Mechanical Seal Cierre Mecánico Sceller	SiC/Carbon/SS304 SiC/Grafito/Inox304 SiC/Carbon/Inox304
Seal plate Plato sello Plaque d'étanchéité	Cast iron Fundición Fonte

PERFORMANCE CURVE/CURVA DE RENDIMIENTO/COURBE DE PERFORMANCE

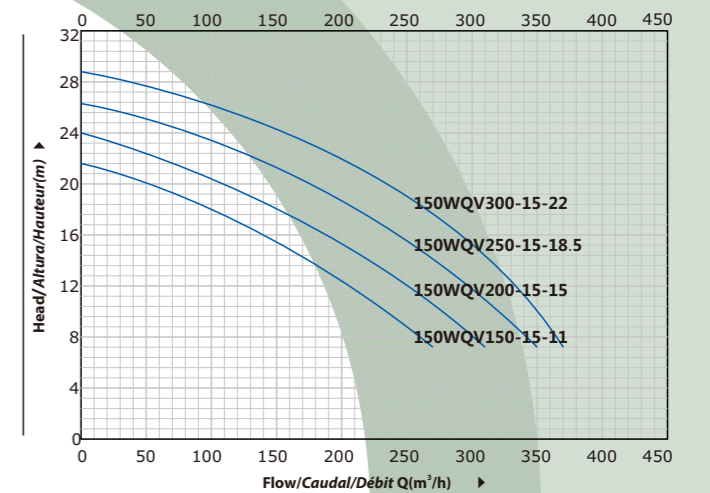
50 Hz n=2900 1/min



50 Hz n=2900/1450 1/min

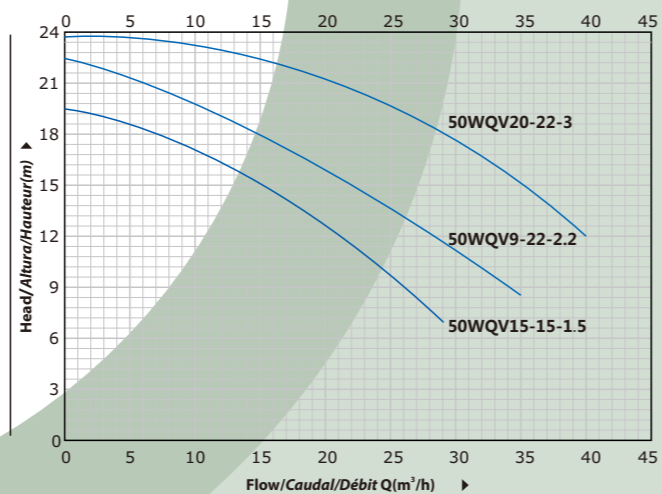
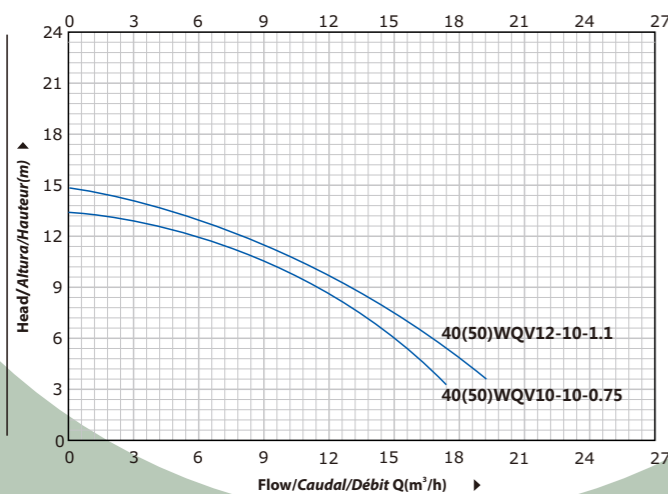


50 Hz n=1450 1/min

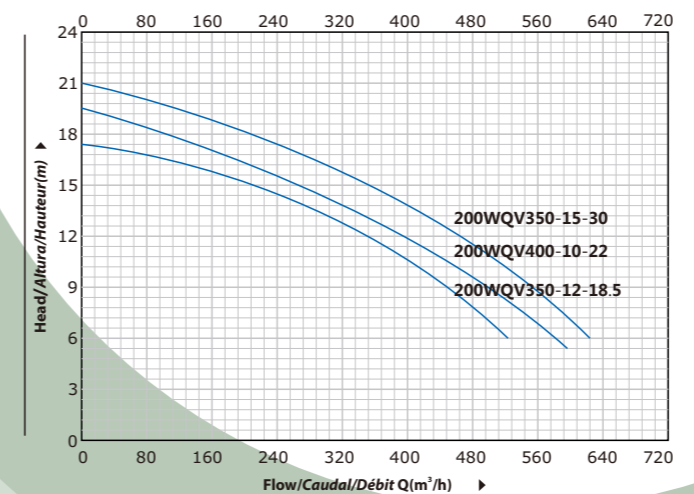


PERFORMANCE CURVE/CURVA DE RENDIMIENTO/COURBE DE PERFORMANCE

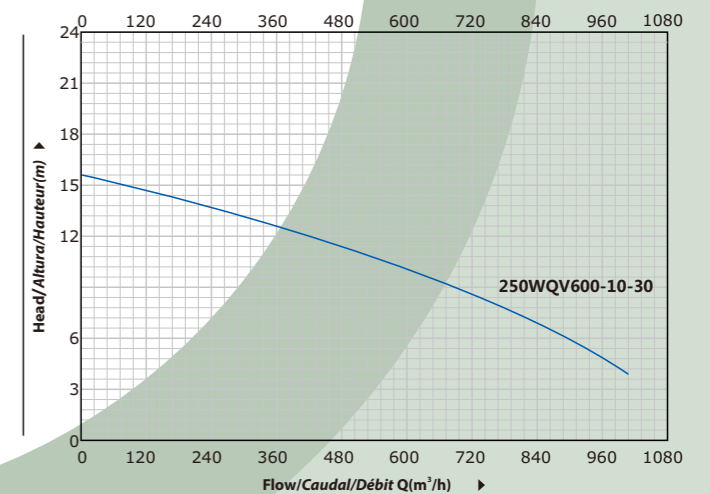
50 Hz n=2900 1/min



50 Hz n=1450 1/min



50 Hz n=1450 1/min



WQ

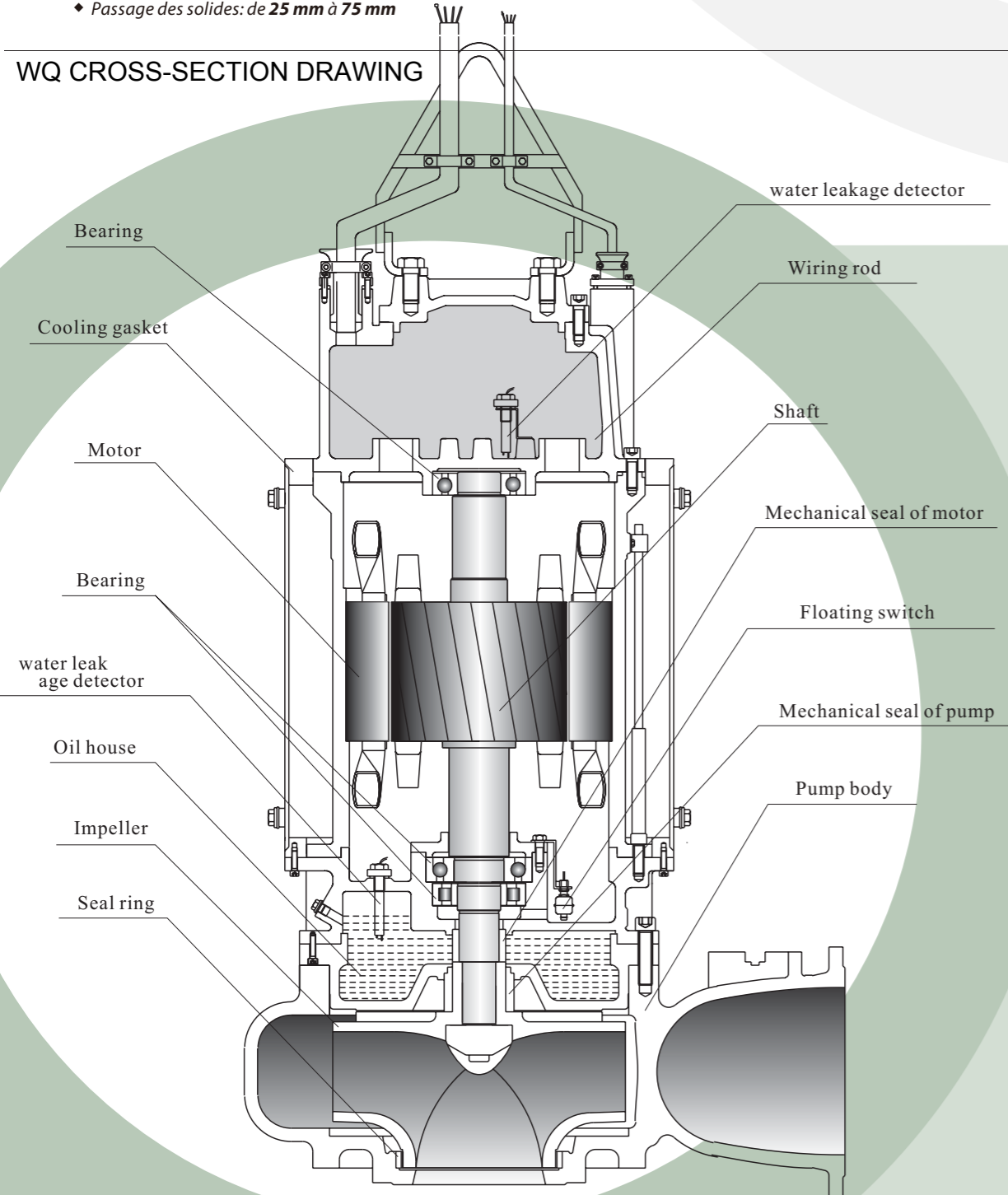
Submersible sewage pump Bomba sumergible para aguas sucias Pompe submersible pour eaux usées



USING LIMITS/LÍMITES UTILIZACIÓN/UTILISATION LIMITES

- ◆ Temperature of the liquid to +40 °C
- ◆ 10m maximum immersion depth
- ◆ Solids passage: from 25mm to 75mm
- ◆ Température du liquide à +40 °C
- ◆ Profondeur d'immersion maximale de 10m
- ◆ Passage des solides: de 25 mm à 75 mm

WQ CROSS-SECTION DRAWING



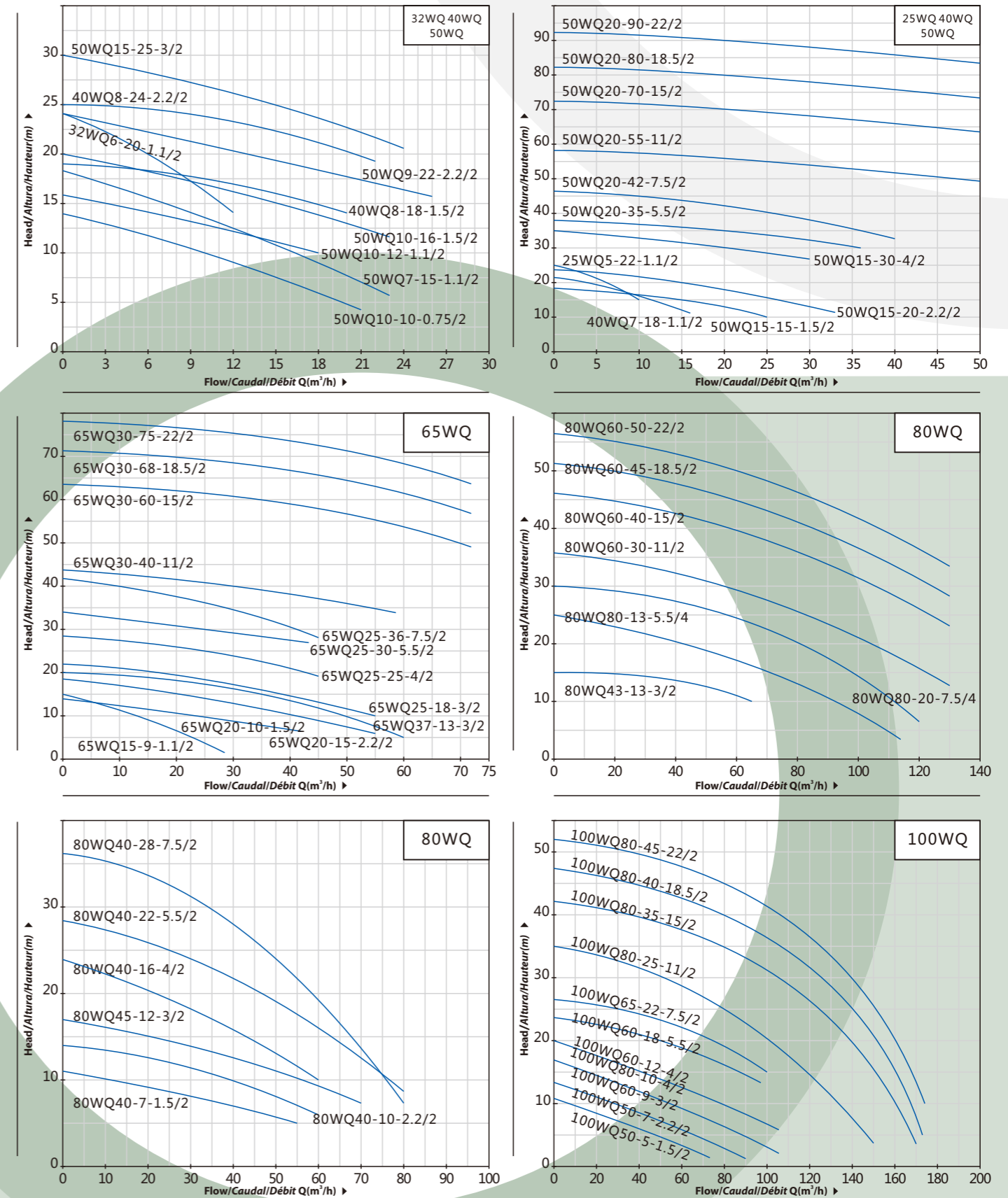
TECHNICAL DATA/DATOS TÉCNICOS/DONNÉES TECHNIQUES

MODEL MODELO MODÈLE	DN mm	Flow Caudal Débit m³/h	Head Altura Hauteur m	Power Potencia Puissance kw	RPM
50WQ10-10-0.75/2	50	10	10	0.75	2900
50WQ7-15-1.1/2	50	7	15	1.1	2900
25WQ5-22-1.1/2	25	5	22	1.1	2900
32WQ6-20-1.1/2	32	6	20	1.1	2900
40WQ7-18-1.1/2	40	7	18	1.1	2900
50WQ10-12-1.1/2	50	10	12	1.1	2900
65WQ15-9-1.1/2	65	15	9	1.1	2900
40WQ8-18-1.5/2	40	8	18	1.5	2900
50WQ10-16-1.5/2	50	10	16	1.5	2900
50WQ15-15-1.5/2	50	15	15	1.5	2900
65WQ20-10-1.5/2	65	20	10	1.5	2900
80WQ40-7-1.5/2	80	40	7	1.5	2900
100WQ50-5-1.5/2	100	50	5	1.5	2900
40WQ8-24-2.2/2	40	8	24	2.2	2900
50WQ9-22-2.2/2	50	9	22	2.2	2900
50WQ15-20-2.2/2	50	15	20	2.2	2900
65WQ20-15-2.2/2	65	20	15	2.2	2900
80WQ40-10-2.2/2	80	40	10	2.2	2900
100WQ50-7-2.2/2	100	50	7	2.2	2900
50WQ15-25-3/2	50	15	25	3	2900
65WQ25-18-3/2	65	25	18	3	2900
65WQ37-13-3/2	65	37	13	3	2900
80WQ45-12-3/2	80	45	12	3	2900
80WQ43-13-3/2	80	43	13	3	2900
100WQ60-9-3/2	100	60	9	3	2900
50WQ15-30-4/2	50	15	30	4	2900
65WQ25-25-4/2	65	25	25	4	2900
80WQ40-16-4/2	80	40	16	4	2900
100WQ60-12-4/2	100	60	12	4	2900
100WQ80-10-4/2	100	80	10	4	2900
50WQ20-35-5.5/2	50	20	35	5.5	2900
65WQ25-30-5.5/2	65	25	30	5.5	2900
80WQ40-22-5.5/2	80	40	22	5.5	2900
100WQ60-18-5.5/2	100	60	18	5.5	2900
150WQ120-8-5.5/2	150	120	8	5.5	2900
50WQ20-42-7.5/2	50	20	42	7.5	2900
65WQ25-36-7.5/2	65	25	36	7.5	2900
80WQ40-28-7.5/2	80	40	28	7.5	2900
100WQ65-22-7.5/2	100	65	22	7.5	2900
150WQ100-10-7.5/2	150	100	10	7.5	2900
50WQ20-55-11/2	50	20	55	11	2900
65WQ30-40-11/2	65	30	40	11	2900
80WQ60-30-11/2	80	60	30	11	2900
100WQ80-25-11/2	100	80	25	11	2900
150WQ100-20-11/2	150	100	20	11	2900
150WQ120-15-11/2	150	120	15	11	2900
200WQ180-11-11/2	200	180	11	11	2900
50WQ20-70-15/2	50	20	70	15	2900
65WQ30-60-15/2	65	30	60	15	2900
80WQ60-40-15/2	80	60	40	15	2900
100WQ80-35-15/2	100	80	35	15	2900
150WQ100-30-15/2	150	100	30	15	2900
150WQ120-25-15/2	150	120	25	15	2900
200WQ180-15-15/2	200	180	15	15	2900
50WQ20-80-18.5/2	50	20	80	18.5	2900
65WQ30-68-18.5/2	65	30	68	18.5	2900
80WQ60-45-18.5/2	80	60	45	18.5	2900
100WQ80-40-18.5/2	100	80	40	18.5	2900
150WQ100-36-18.5/2	150	100	36	18.5	2900
200WQ180-18-18.5/2	200	180	18	18.5	2900
50WQ20-90-22/2	50	20	90	22	2900
65WQ30-75-22/2	65	30	75	22	2900
80WQ60-50-22/2	80	60	50	22	2900
100WQ80-45-22/2	100	80	45	22	2900
150WQ100-40-22/2	150	100	40	22	2900
200WQ200-20-22/2	200	200	20	22	2900
80WQ80-13-5.5/4	80	80	13	5.5	1450
100WQ110-10-5.5/4	100	110	10	5.5	1450
150WQ150-7-5.5/4	150	150	7	5.5	1450
80WQ80-20-7.5/4	80	80	20	7.5	1450
100WQ100-15-7.5/4	100	100	15	7.5	1450
150WQ145-9-7.5/4	150	145	9	7.5	1450
200WQ250-6-7.5/4	200	250	6	7.5	1450
100WQ100-25-11/4	100	100	25	11	1450
150WQ180-11-11/4	150	180	11	11	1450
200WQ300-7-11/4	200	300	7	11	1450
250WQ400-5-11/4	250	400	5	11	1450
100WQ100-30-15/4	100	100	30	15	1450
150WQ200-15-15/4	150	200	15	15	1450
200WQ250-11-15/4	200	250	11	15	1450
250WQ500-5-15/4	250	500	5	15	1450
100WQ100-35-18.5/4	100	100	35	18.5	1450
150WQ180-20-18.5/4	150	180	20	18.5	1450
200WQ250-15-18.5/4	200	250	15	18.5	1450
200WQ350-10-18.5/4	200	350	10	18.5	1450
250WQ500-7-18.5/4	250	500	7	18.5	1450

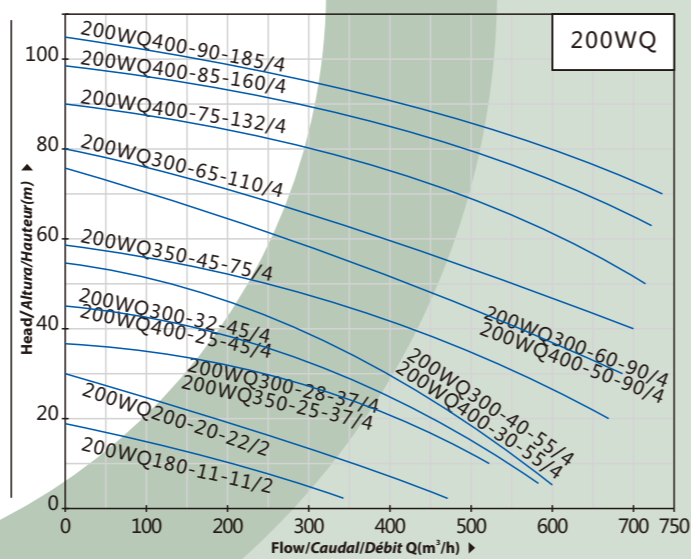
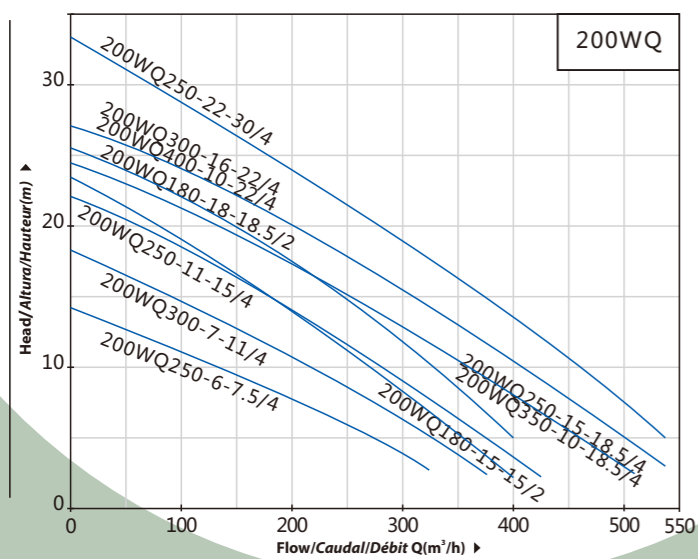
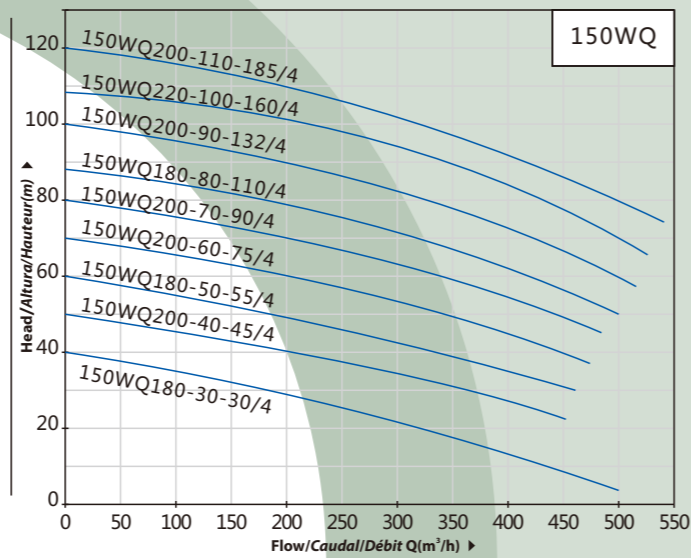
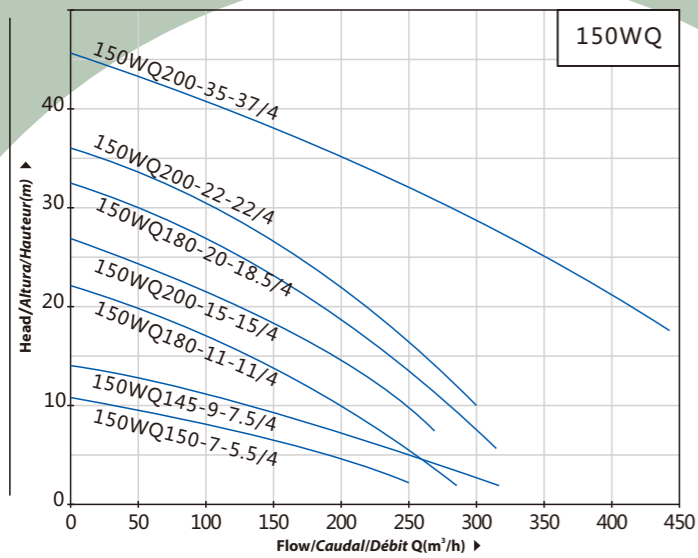
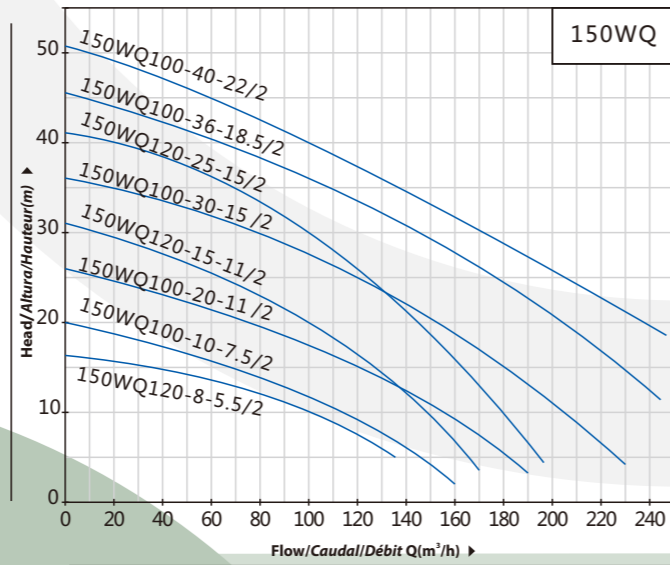
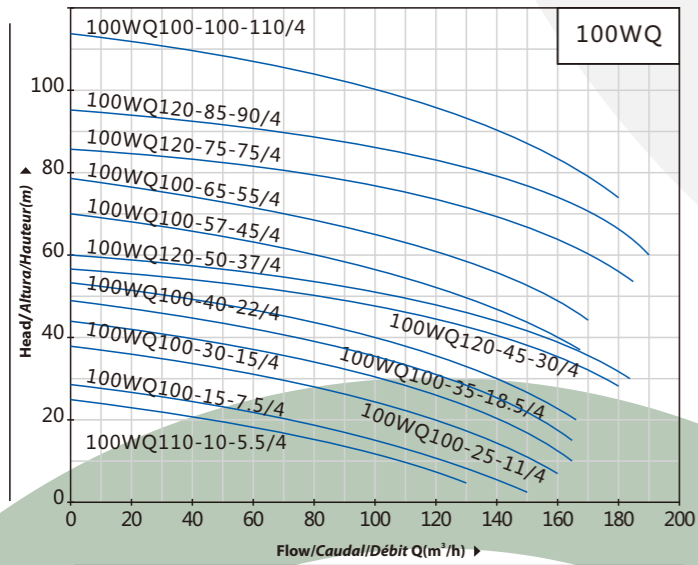
TECHNICAL DATA/DATOS TÉCNICOS/DONNÉES TECHNIQUES

MODEL MODELO MODÈLE	DN	Flow Caudal Débit	Head Altura Hauteur	Power Potencia Puissance	RPM	MODEL MODELO MODÈLE	DN	Flow Caudal Débit	Head Altura Hauteur	Power Potencia Puissance	RPM
	mm	m³/h	m	kw			mm	m³/h	m	kw	
300WQ650-5-18.5/4	300	650	5	18.5	1450	300WQ800-20-75/4	300	800	20	75	1450
100WQ100-40-22/4	100	100	40	22	1450	350WQ1000-15-75/4	350	1000	15	75	1450
150WQ200-22-22/4	150	200	22	22	1450	350WQ1500-12-75/6	350	1500	12	75	980
200WQ300-16-22/4	200	300	16	22	1450	100WQ120-85-90/4	100	120	85	90	1450
200WQ400-10-22/4	200	400	10	22	1450	150WQ200-70-90/4	150	200	70	90	1450
250WQ500-9-22/4	250	500	9	22	1450	200WQ300-60-90/4	200	300	60	90	1450
300WQ650-7-22/4	300	650	7	22	1450	200WQ400-50-90/4	200	400	50	90	1450
100WQ120-45-30/4	100	120	45	30	1450	250WQ600-30-90/4	250	600	30	90	1450
150WQ180-30-30/4	150	180	30	30	1450	300WQ800-25-90/4	300	800	25	90	1450
200WQ250-22-30/4	200	250	22	30	1450	350WQ1000-18-90/4	350	1000	18	90	1450
250WQ500-12-30/4	250	500	12	30	1450	350WQ1200-18-90/6	350	1200	18	90	980
250WQ600-9-30/4	250	600	9	30	1450	100WQ100-100-110/4	100	100	100	110	1450
300WQ800-7-30/4	300	800	7	30	1450	150WQ180-80-110/4	150	180	80	110	1450
300WQ1000-6-30/6	300	1000	6	30	980	200WQ300-65-110/4	200	300	65	110	1450
350WQ1500-4-30/6	350	1500	4	30	980	250WQ600-40-110/4	250	600	40	110	1450
100WQ120-50-37/4	100	120	50	37	1450	300WQ1000-25-110/4	300	1000	25	110	1450
150WQ200-35-37/4	150	200	35	37	1450	350WQ1300-20-110/4	350	1300	20	110	1450
200WQ300-28-37/4	200	300	28	37	1450	350WQ1600-16-110/6	350	1600	16	110	980
200WQ350-25-37/4	200	350	25	37	1450	150WQ200-90-132/4	150	200	90	132	1450
250WQ600-12-37/4	250	600	12	37	1450	200WQ400-75-132/4	200	400	75	132	1450
300WQ800-9-37/4	300	800	9	37	1450	250WQ600-50-132/4	250	600	50	132	1450
350WQ1000-6-37/4	350	1000	6	37	1450	300WQ800-36-132/4	300	800	36	132	1450
350WQ1100-6-37/6	350	1100	6	37	980	350WQ1100-28-132/4	350	1100	28	132	1450
100WQ100-57-45/4	100	100	57	45	1450	350WQ1500-20-132/6	350	1500	20	132	980
150WQ200-40-45/4	150	200	40	45	1450	150WQ220-100-160/4	150	220	100	160	1450
200WQ300-32-45/4	200	300	32	45	1450	200WQ400-85-160/4	200	400	85	160	1450
200WQ400-25-45/4	200	400	25	45	1450	250WQ600-60-160/4	250	600	60	160	1450
250WQ600-15-45/4	250	600	15	45	1450	300WQ800-40-160/4	300	800	40	160	1450
300WQ800-12-45/4	300	800	12	45	1450	350WQ1000-35-160/4	350	1000	35	160	1450
350WQ1200-8-45/4	350	1200	8	45	1450	350WQ1200-35-160/6	350	1200	35	160	980
350WQ1300-8-45/6	350	1300	8	45	980	150WQ200-110-185/4	150	200	110	185	1450
100WQ100-65-55/4	100	100	65	55	1450	200WQ400-90-185/4	200	400	90	185	1450
150WQ180-50-55/4	150	180	50	55	1450	250WQ600-70-185/4	250	600	70	185	1450
200WQ300-40-55/4	200	300	40	55	1450	300WQ900-40-185/4	300	900	40	185	1450
200WQ400-30-55/4	200	400	30	55	1450	350WQ1100-38-185/4	350	1100	38	185	1450
250WQ600-20-55/4	250	600	20	55	1450	250WQ750-75-200/4	250	750	75	200	1450
300WQ800-15-55/4	300	800	15	55	1450	300WQ1000-45-200/4	300	1000	45	200	1450
350WQ1000-10-55/4	350	1000	10	55	1450	350WQ1300-35-200/4	350	1300	35	200	980
350WQ1100-10-55/6	350	1100	10	55	980	300WQ1100-45-250/4	300	1100	45	250	1450
100WQ120-75-75/4	100	120	75	75	1450	350WQ1500-36-250/4	350	1500	36	250	1450
150WQ200-60-75/4	150	200	60	75	1450	300WQ1000-55-315/4	300	1000	55	315	1450
200WQ350-45-75/4	200	350	45	75	1450	350WQ1500-45-315/4	350	1500	45	315	1450
250WQ600-25-75/4	250	600	25	75	1450						

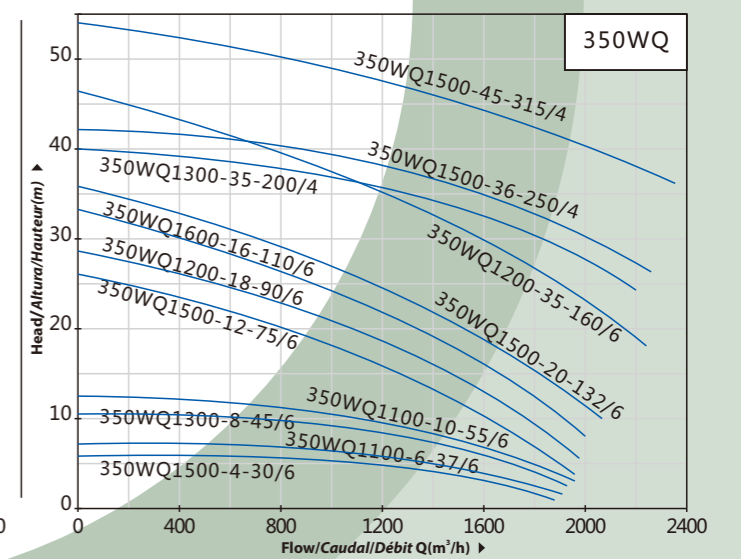
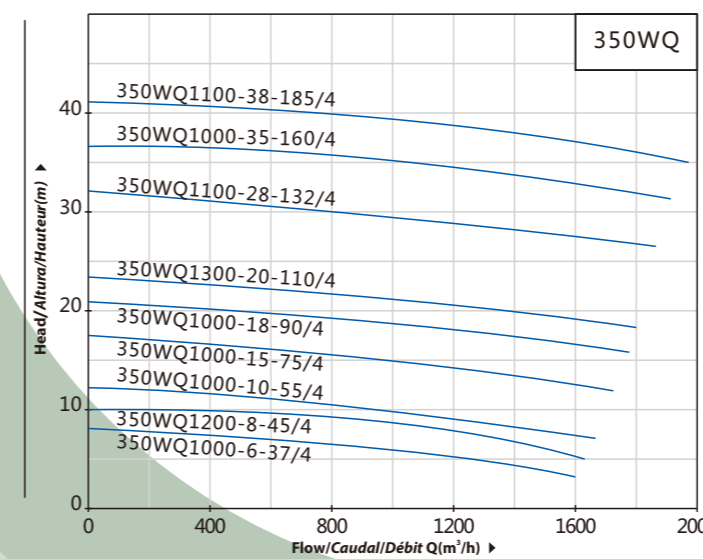
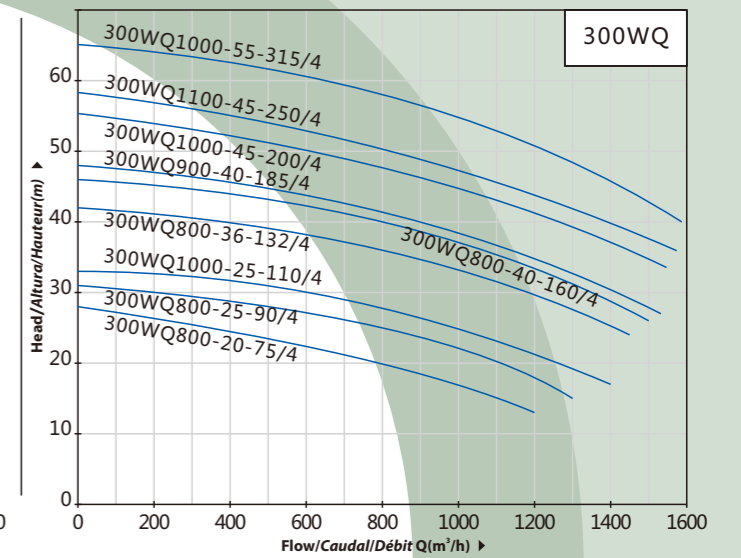
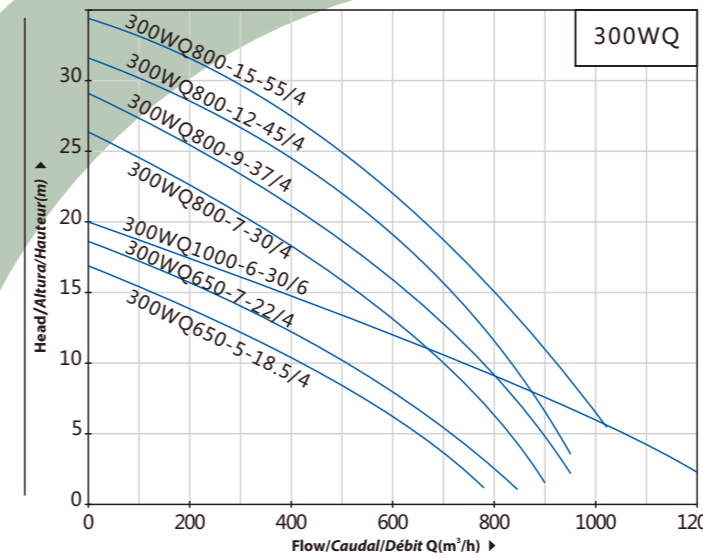
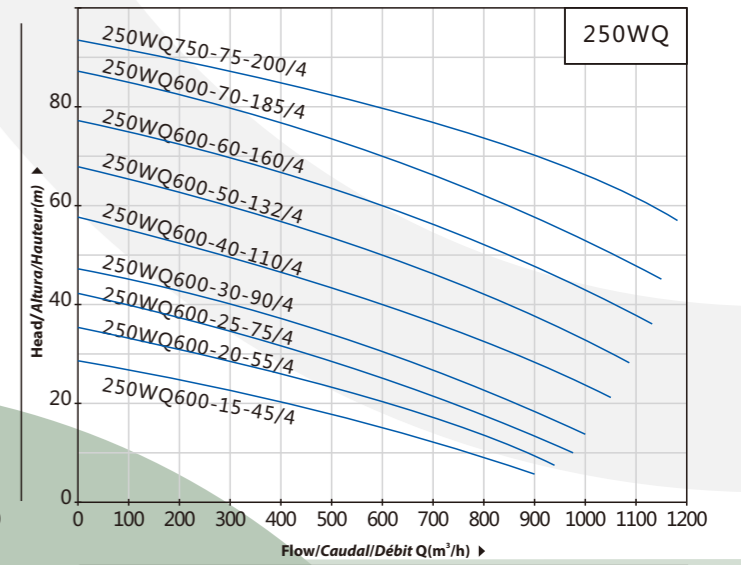
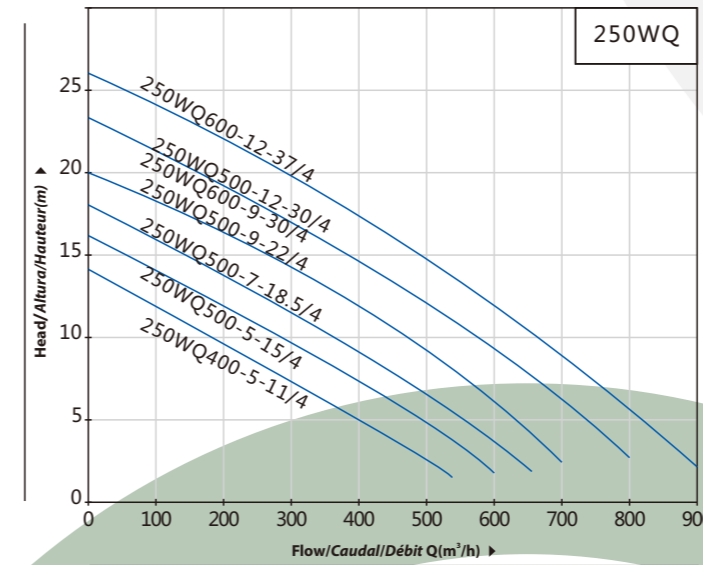
PERFORMANCE CURVE/CURVA DE RENDIMIENTO/COURBE DE PERFORMANCE



PERFORMANCE CURVE/CURVA DE RENDIMIENTO/COURBE DE PERFORMANCE



PERFORMANCE CURVE/CURVA DE RENDIMIENTO/COURBE DE PERFORMANCE

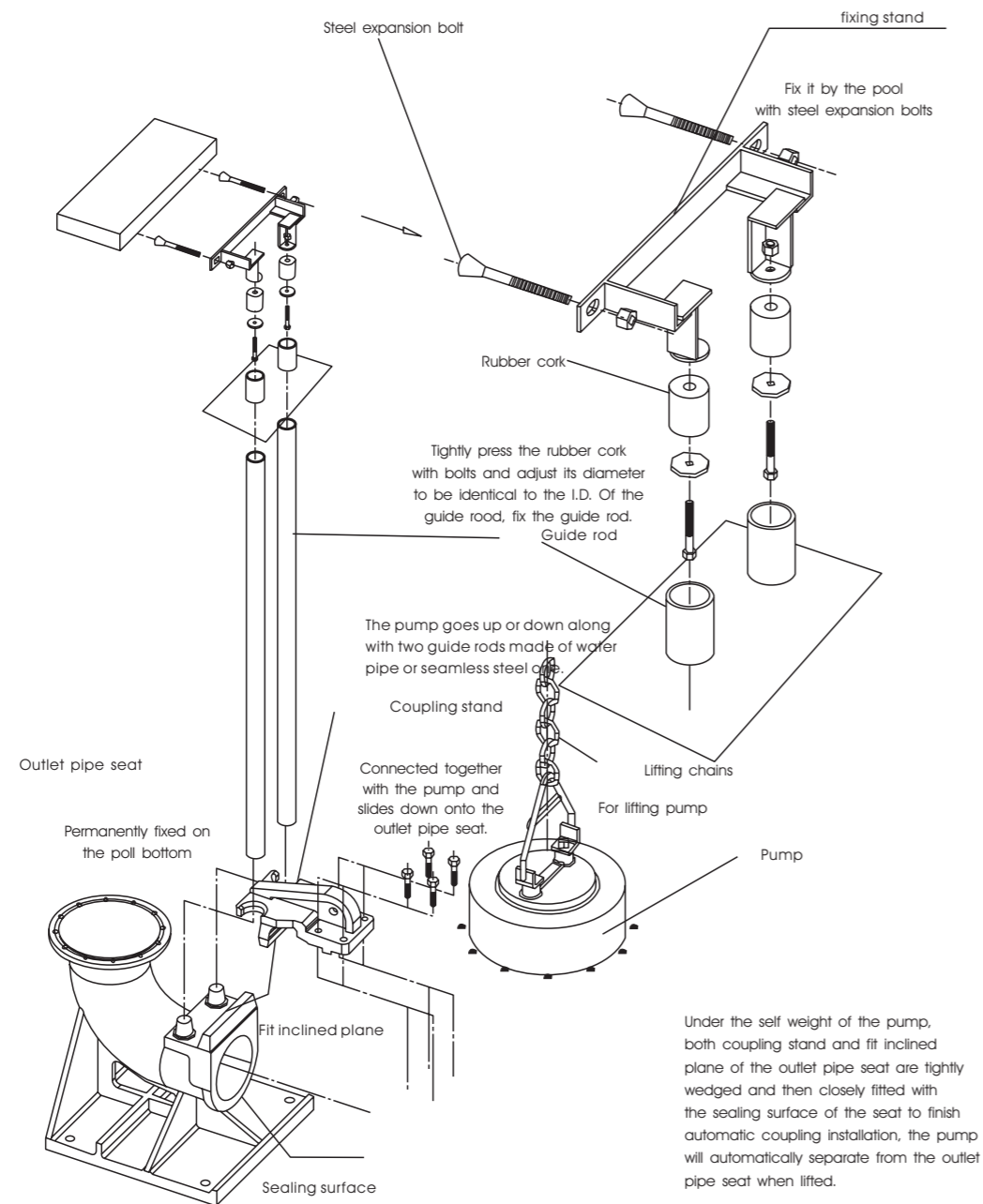


WQ TYPE PUMP INSTALLATION METHOD

Auto-coupled installation

The pump is placed down along with the guide rod and automatically connected to the drainage pipeline system.
Less cost for mounting and lowering the cost for repair.

SCHMATIC DRAWING OF COUPLING DEVICE INSTALLATION



WQ SERIES SUBMERSIBLE SEWAGE PUMP

WQ TYPE COVERAGE CHART

