



**HORMA PUMPS
(PTY) LTD**

**Pump Reconditioning and
General Engineering**

WQ

SUBMERSIBLE SEWAGE PUMP





Application

- Wastewater drainage in factories, construction sites and commercial facilities
- Drainage system in municipal sewage treatment plants
- Drainage station in residential quarters
- Municipal projects
- Methane pools and field irrigation in countryside

Pump

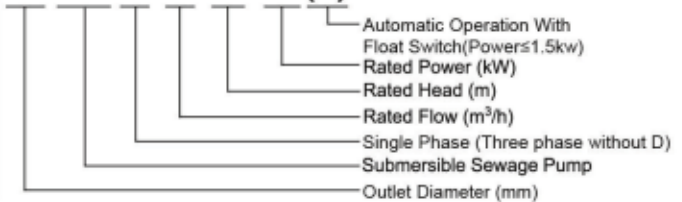
- Max. immersion depth: 10m (0.75-5.5kw-2P), 20m (7.5kw-2P/5.5-45kw-4P)
- Cable length: 8 m
- Max. liquid temperature: up to +40°C
- Liquid PH value: 6 - 10
- Max.liquid density: 1.3x10³ kg/m³
- Allowed by the particle diameter: 20 - 80 mm
- Float switch: single phase

Motor

- Copper winding
- Insulation class: B (0.75-5.5kw-2P), F (7.5kw-2P/5.5-45kw-4P)
- Protection class: IP68
- Motor protection: built in (0.75-7.5kw-2P, 5.5-7.5kw-4P)

Identification Codes

65 WQ D 15-10-1.1(F)



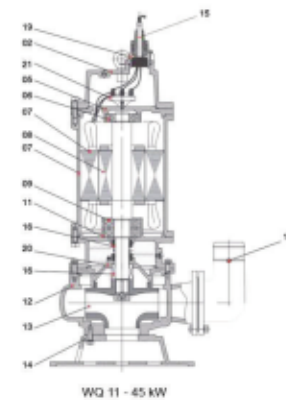
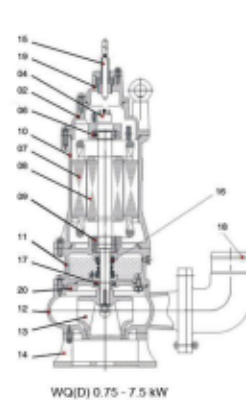
Technical Data *Single Phase not available, please see SW Range*

Model	Voltage	Speed	Max flow	Max head	Motor Power		Outlet	Guide Rial Fitting	Impeller passage	N.W	G.W	Packing dimension
	V	r.p.m	m ³ /h	m	kW	HP						
50WQ10-10-0.75	380	2850	26	12	0.75	1	2	50-50	25	18.5	20	490x255x240
50WQD10-10-0.75(F)	220	2850	26	12	0.75	1	2	50-50	25	19.5	21	490x255x240
50WQ8-16-1.1	380	2850	29	18	1.1	1.5	2	50-50	20	24	25.5	490x255x240
50WQD8-16-1.1(F)	220	2850	29	18	1.1	1.5	2	50-50	20	25.5	27	490x255x240
65WQ15-10-1.1	380	2850	33	15	1.1	1.5	2	65-65	25	23	24.5	490x255x240
65WQD15-10-1.1(F)	220	2850	33	15	1.1	1.5	2	65-65	25	23.5	25	490x255x240
50WQ8-20-1.5	380	2850	25	22	1.5	2	2	50-50	20	25	25	520x260x240
50WQD8-20-1.5(F)	220	2850	25	22	1.5	2	2	50-50	20	26	28	520x260x240
65WQ15-15-1.5	380	2850	37	20	1.5	2	2	65-65	25	26.5	28	510x255x240
65WQD15-15-1.5(F)	380	2850	37	20	1.5	2	2	65-65	25	26.5	28	510x255x240
50WQ15-20-2.2	380	2850	40	22	2.2	3	2	50-50	25	44	48	690x260x315
65WQ25-17-2.2	380	2850	42	22	2.2	3	2 1/2	65-65	25	42	46	690x260x315
80WQ40-9-2.2	380	2850	64	16	2.2	3	3	80-80	30	46	51.5	710x260x315
50WQ15-26-3	380	2850	46	28	3	4	2	50-50	25	49	54	710x260x315
65WQ25-22-3	380	2850	52	26	3	4	2 1/2	65-65	30	52	57	710x260x315
80WQ40-13-3	380	2850	75	20	3	4	3	80-80	30	54	60	750x240x325
100WQ60-9-3	380	2850	92	19	3	4	4	100-100	30	57	63	750x240x325
65WQ25-28-4	380	2850	58	33	4	5.5	2 1/2	65-65	25	61	69	780x260x325
80WQ40-18-4	380	2850	81	24	4	5.5	3	80-80	30	64	712	800x260x325
100WQ60-13-4	380	2850	93	24	4	5.5	4	100-100	30	65	73	800x260x325
50WQ15-40-5.5	380	2850	52	42	5.5	7.5	2	50-50	25	73	81	790x290x355
80WQ30-30-5.5	380	2850	47	36	5.5	7.5	3	80-80	30	73	83	800x290x335
100WQ65-15-5.5	380	2850	110	25	5.5	7.5	4	100-100	30	79	89	810x300x375
50WQ20-45-7.5	380	2850	37	52	7.5	10	2	50-50	25	114	127.5	934x364x435

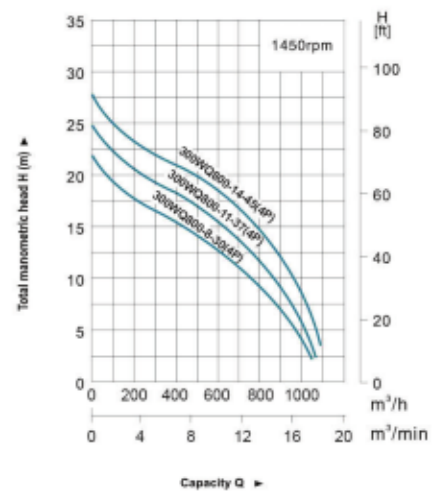
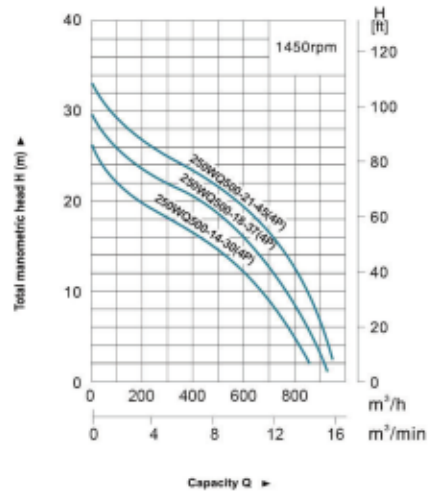
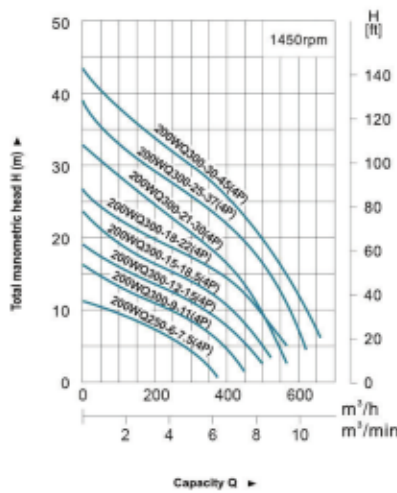
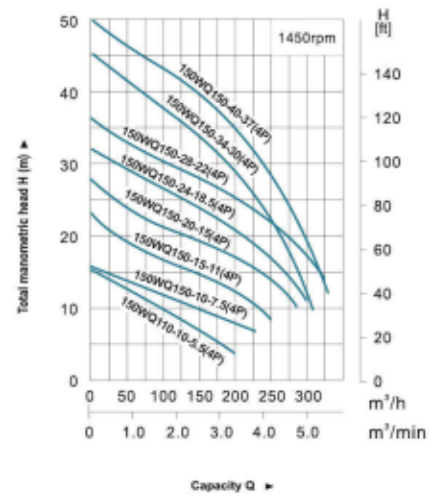
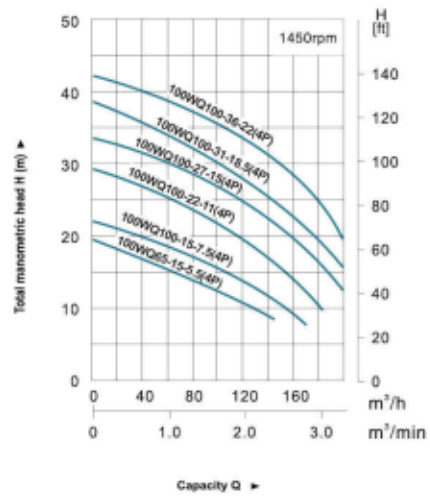
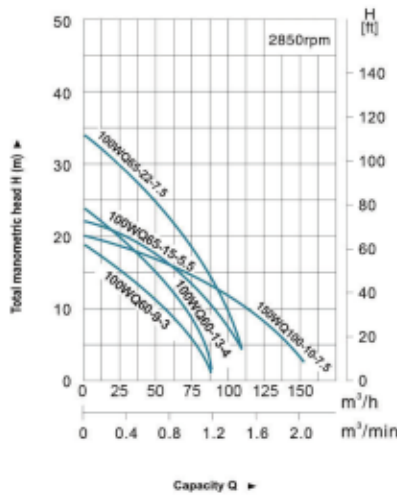
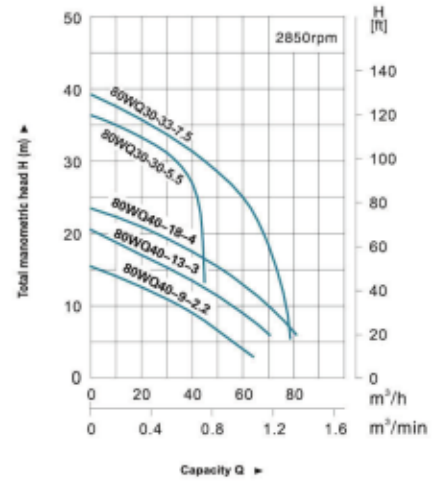
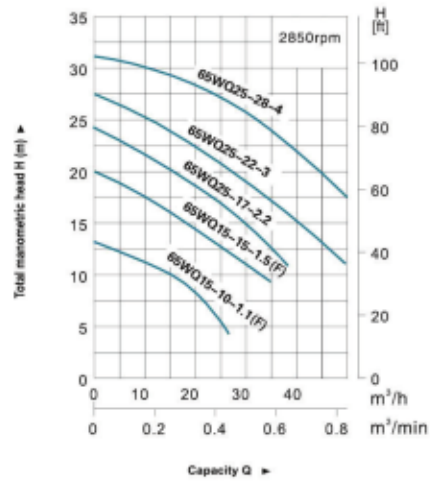
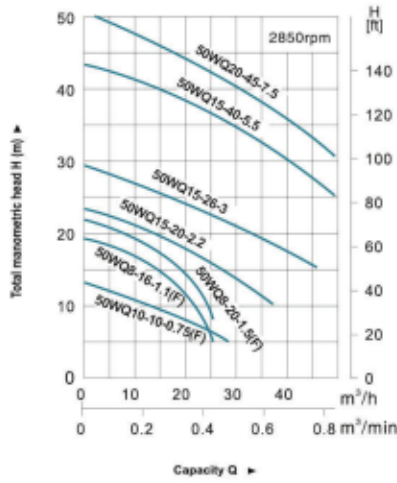
Model	Voltage	Speed	Max flow	Max head	Motor Power		Outlet	Guide Rial	Impeller passage	N.W	G.W	Packing dimension
	V	r.p.m	m ³ /h	m	kW	HP	in	Fitting	mm	kg	kg	mm
80WQ30-33-7.5	380	2850	80	40	7.5	10	3	80-80	30	112	126	934x364x435
100WQ65-22-7.5	380	2850	110	34	7.5	10	4	100-100	35	115	129.5	964x364x435
150WQ100-10-7.5	380	2850	160	20	7.5	10	6	150-150	35	115	130	1014x384x455
100WQ65-15-5.5(4P)	380	1450	150	19	5.5	7.5	4	100-100	55	142	158	905x415x555
150WQ110-10-5.5(4P)	380	1450	200	26	5.5	7.5	6	150-150	55	151	167.5	935x445x585
100WQ100-15-7.5(4P)	380	1450	170	24	7.5	10	4	100-100	55	158	175	955x415x555
150WQ150-10-7.5(4P)	380	1450	240	16	7.5	10	6	150-150	75	169	186	985x445x858
200WQ250-6-7.5(4P)	380	1450	400	12	7.5	10	8	200-200	55	200	218	730x490x1115
100WQ100-22-11(4P)	380	1450	190	31	11	15	4	100-100	50	253	271	700x470x1100
150WQ150-15-11(4P)	380	1450	260	24	11	15	6	150-150	50	256	274	700x470x1130
200WQ300-9-11(4P)	380	1450	450	17	11	15	8	200-200	65	280	298	700x500x1170
100WQ100-27-15(4P)	380	1450	210	35	15	20	4	100-100	50	275	293	700x470x1150
150WQ150-20-15(4P)	380	1450	290	29	15	20	6	150-150	50	277	295	700x470x1170
200WQ300-12-15(4P)	380	1450	490	21	15	20	8	200-200	65	302	320	700x500x1220
100WQ100-31-18.5(4P)	380	1450	200	38	18.5	25	4	100-100	50	326	344.5	700x480x1240
150WQ150-24-18.5(4P)	380	1450	300	32	18.5	25	6	150-150	50	327	346	700x480x1240
200WQ300-15-18.5(4P)	380	1450	530	25	18.5	25	8	200-200	65	354	373	720x510x1280
100WQ100-36-22(4P)	380	1450	220	44	22	30	4	100-100	50	346	366.5	700x480x1240
150WQ150-28-22(4P)	380	1450	330	39	22	30	6	150-150	50	347	367	700x480x1240
200WQ300-18-22(4P)	380	1450	550	27	22	30	8	200-200	65	374	395	720x510x1280
150WQ150-34-30(4P)	380	1450	310	45	30	40	6	150-150	55	497	519	780x600x1430
200WQ300-21-30(4P)	380	1450	570	33	30	40	8	200-200	80	519	541	820x620x1470
250WQ500-14-30(4P)	380	1450	860	27	30	40	10	250-250	85	512	535	780x650x1490
300WQ800-8-30(4P)	380	1450	1040	22	30	40	12	300-300	90	557	581	860x720x1540
150WQ150-40-37(4P)	380	1450	330	50	37	50	6	150-150	55	557	579	780x600x1480
200WQ300-25-37(4P)	380	1450	620	39	37	50	8	200-200	80	576	598	820x620x1520
250WQ500-18-37(4P)	380	1450	930	30	37	50	10	250-250	85	570	593	780x650x1540
300WQ800-11-37(4P)	380	1450	1060	25	37	50	12	300-300	90	614	638	860x720x1590
200WQ300-30-45(4P)	380	1450	660	43	45	60	8	200-200	80	612	634	820x620x1520
250WQ500-21-45(4P)	380	1450	950	34	45	60	10	250-250	85	606	629	780x650x1540
300WQ800-14-45(4P)	380	1450	1080	28	45	60	12	300-300	90	650	674	860x720x1590

Materials Table

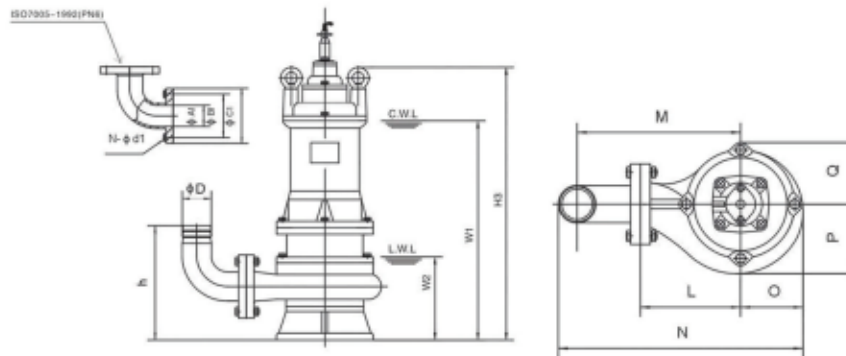
Item No.	Part Name	Material
01	Handle	Steel
02	Upper cover	Cast iron
03	Capacitor	
04	Thermal protector	
05	Upper bearing seat	Cast iron
06	Bearing	
07	Stator	
08	Rotor	
09	Bearing	
10	Motor body	Cast iron
11	Bearing seat	Cast iron
12	Pump body	Cast iron
13	Impeller	Cast iron
14	Base	Cast iron
15	Cable	
16	Mechanical seal	Sic-Sic/Carbon-Ceramic(<7.5 kW) Sic-Sic/Sic-Sic(>7.5 kW)
17	Oil seal	
18	Hose coupling	Cast iron
19	Terminal box	Cast iron
20	Seal bracket	Cast iron
21	Wiring terminal	



Hydraulic Performance Curves

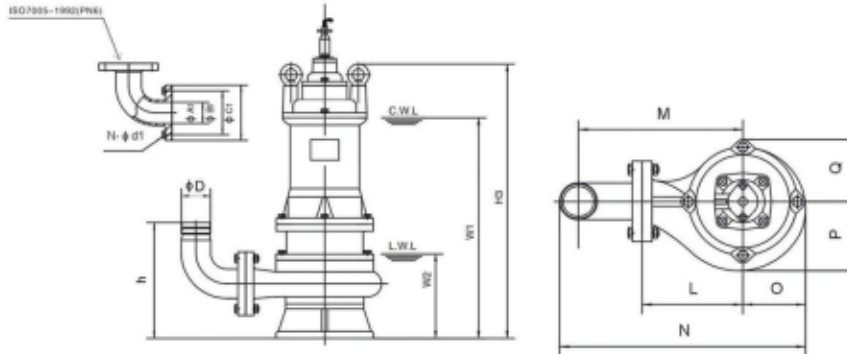


Dimension



Model	ϕD	$\phi A1$	$\phi B1$	$\phi C1$	$n-\phi d1$	h	$W1$	$W2$	$H3$	N	O	P	Q	L	M
50WQ10-10-0.75	50	50	110	140	4- $\phi 14$	200	300	120	445	332	90	96	85	128	192
50WQD10-10-0.75(F)	50	50	110	140	4- $\phi 14$	200	315	120	445	332	90	96	85	128	192
50WQ8-16-1.1	50	50	110	140	4- $\phi 14$	195	325	120	460	347	90	96	85	128	192
50WQD8-16-1.1(F)	50	50	110	140	4- $\phi 14$	195	325	120	460	347	90	96	85	128	192
65WQ15-10-1.1	65	50	110	140	4- $\phi 14$	195	345	120	460	347	90	96	85	128	192
65WQD15-10-1.1(F)	65	50	110	140	4- $\phi 14$	195	345	120	460	347	90	96	85	128	192
50WQ8-20-1.5	50	50	110	140	4- $\phi 14$	202	370	165	480	340	90	105	82	145	210
50WQD8-20-1.5(F)	50	50	110	140	4- $\phi 14$	202	380	165	500	340	90	105	82	145	210
65WQ15-15-1.5	65	50	110	140	4- $\phi 14$	195	345	120	480	347	90	96	85	128	192
65WQD15-15-1.5(F)	65	50	110	140	4- $\phi 14$	195	345	120	480	347	90	96	85	128	192
50WQ15-20-2.2	50	50	110	140	4- $\phi 14$	210	410	145	575	357	107	113	100	164	228
65WQ25-17-2.2	65	65	130	160	4- $\phi 14$	225	410	145	575	383	107	113	100	164	234
80WQ40-9-2.2	80	65	150	190	4- $\phi 14$	255	415	150	580	392	105	111	93	160	250
50WQ15-26-3	50	50	110	140	4- $\phi 14$	210	425	145	610	357	107	113	100	164	228
65WQ25-22-3	65	65	130	160	4- $\phi 14$	225	425	145	610	383	107	113	100	164	234
80WQ40-13-3	80	80	150	190	4- $\phi 18$	270	450	170	630	387	107	115	100	153	243
100WQ60-9-3	100	80	170	210	4- $\phi 18$	295	450	170	630	410	107	115	100	153	253
65WQ25-28-4	65	65	130	160	4- $\phi 14$	240	455	160	650	406	111	116	106	179	249
80WQ40-18-4	80	80	150	190	4- $\phi 18$	280	480	185	675	407	105	110	100	165	255
100WQ60-13-4	100	80	170	210	4- $\phi 18$	305	480	185	675	430	105	110	100	165	265
50WQ15-40-5.5	50	50	110	140	4- $\phi 14$	235	475	160	675	386	125	130	112	175	239
80WQ30-30-5.5	80	80	150	190	4- $\phi 18$	275	495	175	690	427	115	120	110	175	265
100WQ65-15-5.5	100	100	170	210	4- $\phi 18$	285	505	190	705	462	131	140	115	181	281
50WQ20-45-7.5	50	50	110	140	4- $\phi 12$	265	540	210	4760	449	140	146	134	200	264
80WQ30-33-7.5	80	80	150	190	4- $\phi 18$	305	540	210	760	490	140	146	134	200	290
100WQ65-22-7.5	100	100	170	210	4- $\phi 18$	345	560	230	780	513	145	154	135	200	300
150WQ100-10-7.5	150	150	225	265	8- $\phi 18$	405	575	245	795	598	145	160	135	210	360

Dimension



Model	ϕD	$\phi A1$	$\phi B1$	$\phi C1$	$n-\phi d1$	h	$W1$	$W2$	$H3$	N	O	P	Q	L	M
100WQ65-15-5.5(4P)	100	100	170	210	4- $\phi 18$	360	585	255	805	620	190	202	177	280	380
150WQ110-10-5.5(4P)	150	150	225	265	8- $\phi 18$	430	615	285	835	725	200	215	185	300	450
100WQ100-15-7.5(4P)	100	100	170	210	4- $\phi 18$	360	630	255	850	620	190	202	177	280	380
150WQ150-10-7.5(4P)	150	150	225	265	8- $\phi 18$	430	660	285	880	725	200	215	185	300	450
200WQ250-6-7.5(4P)	200	200	295	340	8- $\phi 22$	540	695	320	915	880	230	256	192	350	550
100WQ100-22-11(4P)	100	100	170	210	4- $\phi 18$	355	650	255	910	671	206	217	193	310	410
150WQ150-15-11(4P)	150	150	225	265	8- $\phi 18$	440	680	285	940	756	208	225	188	320	470
200WQ300-9-11(4P)	200	200	295	340	8- $\phi 22$	545	720	325	980	866	226	253	191	340	540
100WQ100-27-15(4P)	100	100	170	210	4- $\phi 18$	355	695	255	955	671	206	217	193	310	410
150WQ150-20-15(4P)	150	150	225	265	8- $\phi 18$	440	725	285	985	756	208	225	188	320	470
200WQ300-12-15(4P)	200	200	295	340	8- $\phi 22$	545	765	325	1025	866	226	253	191	340	540
100WQ100-31-18.5(4P)	100	100	170	210	4- $\phi 18$	355	715	185	1010	693	218	227	206	325	425
150WQ150-24-18.5(4P)	150	150	225	265	8- $\phi 18$	415	740	290	1035	781	221	235	206	335	485
200WQ300-15-18.5(4P)	200	200	295	340	8- $\phi 22$	545	785	330	1080	883	233	260	203	350	550
100WQ100-36-22(4P)	100	100	170	210	4- $\phi 18$	355	735	265	1030	693	218	227	206	325	425
150WQ150-28-22(4P)	150	150	225	265	8- $\phi 18$	415	760	290	1055	781	221	235	206	335	485
200WQ300-18-22(4P)	200	200	295	340	8- $\phi 22$	545	805	330	1100	883	233	260	203	350	550
150WQ150-34-30(4P)	150	150	240	285	8- $\phi 22$	475	855	340	1200	997	272	283	270	380	582
200WQ300-21-30(4P)	200	200	295	340	8- $\phi 22$	580	895	380	1240	1078	286	308	270	390	622
250WQ500-14-30(4P)	250	250	350	395	12- $\phi 22$	-	920	400	1265	1181	300	332	270	410	683
300WQ800-8-30(4P)	300	300	400	445	12- $\phi 22$	-	970	450	1315	1365	340	386	290	480	803
150WQ150-40-37(4P)	150	150	240	285	8- $\phi 22$	463	850	340	1255	997	272	283	270	380	582
200WQ300-25-37(4P)	200	200	295	340	8- $\phi 22$	593	890	380	1295	1078	286	308	270	390	622
250WQ500-18-37(4P)	250	250	350	395	12- $\phi 22$	665	910	400	1315	1181	300	332	270	410	683
300WQ800-11-37(4P)	300	300	400	445	12- $\phi 22$	750	860	450	1365	1365	340	386	290	480	803
200WQ300-30-45(4P)	200	200	295	340	8- $\phi 22$	560	930	380	1295	1078	286	308	270	390	622
250WQ500-21-45(4P)	250	250	350	395	12- $\phi 22$	665	950	400	1315	1181	300	332	270	410	683
300WQ800-14-45(4P)	300	300	400	445	12- $\phi 22$	750	1000	450	1365	1365	340	386	290	480	803



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