

FARMMASTER CONTENTS



BENEFITS - NOMENCLATURE	3
PRODUCT FEATURES & CUSTOMER BENEFITS	3
OVERVIEW - SHALLOW WELL JJ - INJECTORS & PERFORMANCE CURVES OJ - INJECTORS & PERFORMANCE CURVES	4 5
PERFORMANCE TABLES - SHALLOW WELL JJ400 / JJ600 OJ700 / OJ800	6 7
PERFORMANCE TABLES - DEEP WELL JJ400 / JJ600 / OJ700 / OJ800 OJ - DEEP WELL OFFSET	8
WATER PRESSURE SYSTEMS - DEEP WELL HIGH PRESSURE JJ400 / JJ600 OJ700 OJ800	9 10 11
PERFORMANCE - COMPOSITE FARMMASTER 543 JET PUMP - PERFORMANCE TABLE & CURVES	12
SUITABLE PRESSURE TANKS	13
TECHNICAL DATA - ALL MODELS MATERIALS OF CONSTRUCTION MOTOR DATA MODEL DATA	14 14 14
DIMENSIONS - ALL MODELS JJ400 / JJ600 / 0J700 / 0J800 / 543 - DRAWINGS DIMENSIONS TABLE	15 15
SELECT & INSTALL CONVERTIBLE JET PUMPS	16
PUMP SELECTION GUIDE	17
ORDERING INFORMATION	18
TROUBLESHOOTING	19
SPARE PARTS JJ400 / JJ600 0J700 / 0J800 6/3	20 21

FARMMASTER

BENEFITS - NOMENCLATURE



Farmmaster Range

Onga's Farmmaster range has evolved with the needs of Australian farmers and landowners since Onga's beginning back in 1967. The JJ & OJ series of pumps are engineered for ultimate reliability and outstanding performance.

The **Farmmaster Junior Jet (JJ)** range are compact and efficient, whilst the **Farmmaster Onga Jet (OJ)** range is the flagship of the Onga range; both with precision engineered internals and a coated cast iron housing for high performance and durability. You simply cannot beat this range for reliability. Available in shallow or deep well configurations:

Shallow Well Pumps

Onga offers a wide variety of reliable shallow well pumps suitable for providing strong and constant pressure such as the JJ and OJ ranges and 500 Series.

Deep Well Pumps

The Onga JJ & OJ Deep Well range of farm pumps are suitable for supplying water from sources where the suction lift is greater than 7.6 metres. We can offer product solutions that can handle suction lifts down to 49 metres.

The **Onga 543 Jet Pump** is manufactured for both domestic and rural applications. The pump is constructed from industrial grade corrosion-resistant thermoplastic and contains a built-in check valve close coupled to a cool running TEFC electric motor for reliability and ease of service.

Your Onga dealer can tailor these versatile pumps to your requirement, using interchangeable internal components delivering you the efficiency you demand. Farmmaster pumps are built tough to endure demanding conditions. Don't comprise on quality – you can't beat an Onga Farmmaster.



PRODUCT FEATURES & CUSTOMER BENEFITS

JET ASSISTED PUMP RANGE

PRODUCT FEATURES	CUSTOMER BENEFITS	JJ	0J	543
Simple to install and commission	Low cost, fast hassle-free installation	•	•	•
Full range of injectors	Can be engineered to meet needs of each job	•	•	
Large range of injector types	Adaptable to deep or shallow well applications	•	•	
Offset combinations available	Can place pump above flood line	•	•	•
No moving parts down bore	Low maintenance costs	•	•	•
Manual or automatic system	Available to suit your specific application	•	•	•

NOMENCLATURE	JJ	0J	MOULDED JET							
PUMPS	JUNIOR JET	ONGA JET								
SERIES	400 - 600	400 - 600 - 700 - 800								
INJECTORS	S-SHALL									
INJECTORS	D - DEE	PWELL								

onga

ONGA FARMMASTER JET PUMP

JJ400 & JJ600



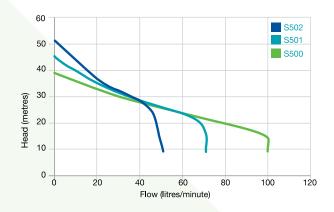




KEY FEATURES

- Injectors to suit large range of applications.
- Offset combinations available.
- No moving parts down bore.
- Shallow well lifts to 7.6m.
- Deep well lifts to 27m.
- Manual or automatic system.
- Max. head 52m.
- Max. flow 98lpm.

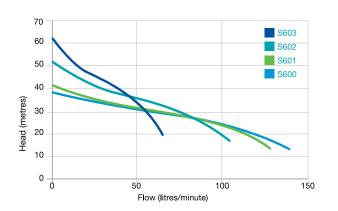
SUITABLE INJECTORS											
S500	D411										
S501	D521										
S502	D511										



KEY FEATURES

- Strong cast iron construction.
- Injectors to suit large range of applications.
- Offset combinations available.
- No moving parts down bore.
- Shallow well lifts to 7.6m.
- Deep well lifts to 37m.
- Manual or automatic system.
- Max. head 63m.
- Max. flow 137lpm.

	SUITABLE INJECTORS
S600	D417
S601	D413
S602	D523
S603	D513
	D620



APPLICATIONS

Domestic, industrial or rural pressure pump for use as a manual or automatic pressure system, stock watering, irrigation and water transfer. Option of a large range of water sources including tanks, bores, dams, creeks and rivers thanks to various injector combinations.

For listed JJ400, JJ600, OJ700 & OJ800.

onga

ONGA FARMMASTER JET PUMP

OJ700 & OJ800



0J800

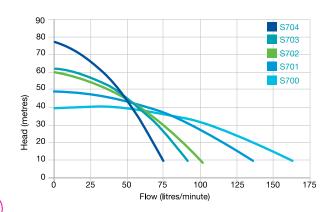


*Kits are available.

KEY FEATURES

- Injectors to suit large range of applications.
- Offset combinations available.
- No moving parts down bore.
- Shallow well lifts to 7.6m.
- Deep well lifts to 40m.
- Manual or automatic system.
- Max. head 77m.
- Max. flow 162lpm.

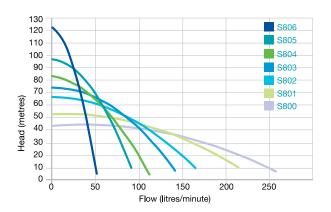
	SUITABLE INJECTORS
S700	D414
\$701	D415
\$702	D514
S703	D515
\$704	D516
	D611
	D612
	D613



KEY FEATURES

- Injectors to suit large range of applications.
- Offset combinations available.
- No moving parts down bore.
- Shallow well lifts to 7.6m.
- Deep well lifts to 49m.
- Manual or automatic system.
- Max. head 123m.
- Max. flow 255lpm.

SUITABLE INJECTORS											
S800	D518										
S801	D519										
\$802	D520										
\$803	D616										
\$804	D617										
\$805	D618										
\$806	D619										



JJ SHALLOW WELL

PERFORMANCE TABLES

JJ400

				TOTAL	. HEAD IN M	IETRES		
INJECTOR Model	PRESSURE SWITCH SETTING (kPa)	SUCTION DEPTH (M)	15	21	27	34	40	MAX. PUMP PRESSURE (kPa)
MODEL	SETTING (KFa)	DEFIN(N)		CA	FRESSURE (RFa)			
		0	98	70	40			380
0500*	1/ 0, 000	3	78	56	32			350
S500*	140-280	6	56	40	23			320
		7.6	39	28	16			305
		0	71	66	42	21		440
0501#	010.750	3	57	53	34	17		410
S501#	210-350	6	40	38	24	12		380
		7.6	28	26	17	8		365
		0		47	42	24	14	505
0500*	000 /00	3		38	34	19	11	475
S502*	280-420	6		27	24	14	8	445
		7.6		19	17	10	6	430

JJ600

				TO					
INJECTOR MODEL	PRESSURE SWITCH SETTING (kPa)	SUCTION DEPTH (M)	15	21	27	34	40	46	MAX. PUMP PRESSURE (kPa)
	SETTING (KFa)	DEP IN (N)			PRESSURE(KPa)				
		0	137	112	71	24			375
0000*	1/0.000	3	109	89	57				345
\$600*	140-280	6	78	64	40				315
		7.6	55	45	28				300
		0	125	112	74	33			410
0001*	210-350	3	100	89	59	26			380
S601*		6	71	64	42				350
		7.6	50	45	29				335
		0		100	82	51	29		505
0000*	000 /00	3		80	66	41	23		475
S602*	280-420	6		57	47	29	16		445
		7.6		40	33	20	12		440
		0			62	48	34	22	615
0007*	750 500	3			50	38	27	18	585
S603*	350-560	6			35	27	19	12	555
					25	19	14	9	540

#Factory pressure switch setting (210-350kPa)
*Pressure switch adjustment needed.
Pump suction 11/2"BSP Female.

Pump discharge port 3/4″BSP Female (pump), 1″BSP Female (pressure kit). Model JJ600 may be purchased as single or three phase.

OJ SHALLOW WELL

PERFORMANCE TABLES

0J700

	PRESSURE		TOTAL HEAD IN METRES														
INJECTOR Model	SWITCH	SUCTION DEPTH (M)	15	21	27	34	40	46	52	58	64	70	76	82	88	95	MAX. PUMP PRESSURE (kPa)
HODEL	SETTING (kPa)	DEI III(II)						CA	PACI	ΓΥ (L	PM)						
		0	162	159	138	80	27										430
0700#	010.750#	3	130	127	110	64											400
S700#	210-350#	6	92	91	79	46											370
		7.6	65	64	55	32											355
		0			114	94	61	31									540
S701*	280-455	3			91	75	49	25									510
		6			65	54	35	18									480
		7.6			46	38	24	12									465
		0				85	66	42	24								635
S702*	350-560	3				68	53	34	19								605
5/02	350-560	6				48	38	24	14								575
		7.6				34	26	17	10								560
		0					69	50	35	22							690
\$703*⁺	420-630	3					55	40	28	18							660
3703	420-030	6					39	29	20	13							630
		7.6					28	20	14	9							615
		0					56	51	39	28	18	11					800
\$704* ⁺	490-700	3					45	41	31	22	14	9					770
3/04		6					32	29	22	16	10						740
		7.6					22	20	16	11	7						725

[#] Factory pressure switch setting.

Pump suction 11/2"BSP Female.

Pum discharge port 1"BSP Male (pump), 1"BSP Female (pressure kit). Both single and three phase models available.

0J800

	PRESSURE						TO	DTAL	HEA	N NI C	1ETRI	ES					MAX. PUMP PRESSURE (kPa)
INJECTOR Model	SWITCH	SUCTION DEPTH(M)	15	21	27	34	40	46	52	58	64	70	76	82	88	95	
MODEL	SETTING (kPa)	DEP IN (PI)						CA	PACI	ΓΥ (L	PM)						
		0	245	241	218	156	72										430
0000#	010 750#	3	196	193	174	125											400
S800#	210-350#	6	140	137	124	89											370
		7.6	98	96	87	62											355
		0		215	204	160	116	66									525
S801*	280-455	3		172	163	128	93	53									495
3001	200-400	6		123	116	91	66										465
		7.6		86	82	64	46										450
	350-560	0			154	150	117	85	54	25							635
S802*		3			123	120	94	68	43	20							605
3002	330-300	6			88	86	67	48	31								575
		7.6			62	60	47	34	22								560
	420-630	0					112	88	64	42	25						730
S803*		3					90	70	51	34	20						700
3003	420 000	6					64	50	36	24	14						670
		7.6					45	35	26	17	10						655
		0						90	67	47	31	18					800
S804*⁺	490-700	3						72	54	38	24	14					770
3004	430-700	6						51	38	27	18	10					740
		7.6						36	27	19	12	7					725
		0							70	57	43	31					970
S805* [⁺]	630-840	3							56	46	34	25	17				880
2002	630-640	6							40	32	25	18	12				850
		7.6							28	23	17	12	8				835
		0										34	33	30	25	18	1145
cone*⁺	770-1050	3										27	26	24	20	14	1115
S806* [*]	//U-1000	6										19	18	17	14	10	1085
		7.6										14	13	12	10	7	1070

[#] Factory pressure switch setting.

^{*} Pressure switch adjustment needed.

^{+ 700248} pressure switch needed for extra high pressure switching.

^{*} Pressure switch adjustment needed.

^{+ 700248} pressure switch needed for extra high pressure switching.

JJ & OJ DEEP WELL

PERFORMANCE TABLES

JJ400 DEEP WELL PERFORMANCE TABLE

INJECTOR	PRESSURE SWITCH	INJECTOR	SUCTION	PRESSURE PIPE (INCH)		BORE		ER PU		GLEV (M)	EL OR		MIN. PUMP	MAX. PUMP
MODEL	SETTING	SIZE (INCH)	PIPE (INCH)		6	9	12	15	18	21	24	27	PRESS. (kPa)	PRESS. (kPa)
	(kPa)	((CA	PACI	TY (LF		(iii u)				
D411	140-280	3 1/4	11/4	1	60	45	35	25	18				95	400
D521	140-280	3 3/8	11/2	11/4	75	65	50	40					100	400
D511	140-280	-	11/2	11/4					25	20	18	13	100	385

JJ600 DEEP WELL PERFORMANCE TABLE

INJECTOR	PRESSURE SWITCH	INJECTOR		PRESSURE			ВО				ING L FT (M		OR				MAX. PUMP
MODEL	SETTING (kPa)	SIZE (INCH)	PIPE (INCH)	PIPE (INCH)	6	9	12	15	18	21	24 (LPM)	27	30	34	37	PRESS. (kPa)	PRESS. (kPa)
D417	140-280	3 1/4	11/4	1	78	58	43		CAFA							140	410
D413	140-280	-	11/4	1				30	25	18						140	430
D523	140-280	3 3/8	11/2	11/4	100	85	63	47								160	414

0J700 DEEP WELL PERFORMANCE TABLE

INJECTOR	PRESSURE	INJECTOR		PRESS.				BORE			MPIN(EL OR	1			MIN. PUMP	MAX. PUMP
MODEL	SWITCH SETTING (kPa)	SIZE (INCH)	PIPE (INCH)	PIPE (INCH)	6	9	12	15	18	21	24	27	30	34	37	40	PRESS. (kPa)	PRESS.
	oci into (ki a)	(((CA	PACI	TY (LF	PM)					(Ki u)	(kPa)
D414	210-350	3 1/4	11/4	1	90	78	60										186	455
D415	210-350	-	-	1				40	30	28	18	15					186	483
D514	210-350	3 3/8	11/2	11/4	120	105	75	63									179	469
D515	210-350	-	-	11/4					50	40	30						193	483
D516	210-350	-	-	-								28	20	13	10		193	455
D611	210-350	#4 3/8	-	-	135	120	113	90									179	462
D612	210-350	-	2	11/2					68	60	48						186	483
D613	210-350	-	-	-								54	35	25	25	15	193	518

0J800 DEEP WELL PERFORMANCE TABLE

INJECTOR	PRESSURE SWITCH	INJECTOR							BORE			PUMF ON L			EL OI	₹				MIN. PUMP	MAX. PUMP
MODEL	SETTING (kPa)	SIZE (INCH)	PIPE (INCH)	PIPE (INCH)	6	9	12	15	18			27			37	40	43	46	49	PRESS.	PRESS.
		(<u> </u>	<u>APA</u>	<u>CITY</u>	(LPI	<u>1) </u>						(kPa)	(kPa)
D520	210-350* or 280-480	3 3/8	11/2	11/4	160	135	113	85												248	573
D518	210-350* or 280-480	-	-	_					63	58	43									262	690
D519	210-350* or 280-480	-	-	-								38	30	23	18	15				262	656
D618	210-350* or 280-480	#4 3/8	-	_	205	173	150													214	517
D619	210-350* or 280-480		2	11/2				125	100	85										242	600
D616	210-350* or 280-480	-	-	-							68	60	50							276	711
D617	210-350* or 280-480	-	-	-										48	40	33	28	25	20	276	662
D613	210-350	-	-	-								54	35	25	25	15				193	518

0J700 & 0J800 DEEP WELL OFFSET TABLE

00700	a 0000	O DELI WELL	OIT SET TABLE	_				
INJECTO	R MODEL	DIDE CIZE (INCII)		ADDITIONA	L SUCTION HEAD (M) PER HORIZONTAL	OFFSET (M)	
0J700	0J800	PIPE SIZE (INCH)	30	60	120	180	240	300
D611		2 x 1½	3	6	9	12	15	17
D612		2 x 1½	2.5	4.5	7.5	10.5	13.5	15
D613		2 x 1½	2.5	4.5	7.5	10.5	12	13.5
D618		2 x 1½	6	12	18.5	23	26	29
D619		2 x 1½	4.5	9	15	18.5	21	23
	D616	2 x 1½	3	6	12	17	20	23
	D617	2 x 1½	3	6	10.5	15	18.5	21
	D618	2 x 2	3.5	7.5	13.5	18.5	21	24
	D619	2 x 2	3	6	10.5	13.5	17	18.5
	D616	2 x 2	2	4.5	7.5	10.5	13.5	15
	D617	2 x 2	1.5	3	6	9	12	13.5

JJ DEEP WELL

WATER PRESSURE SYSTEMS

JJ400 DEEP WELL HIGH PRESSURE

						В	ORE W	ATER	PUMP	ING LE	VEL (M)				
PRESSURE SWITCH	OPERATING	6	9	12	15	18	21	24	27	30	34	37	40	43	46	49
SETTING (kPa)	PRESSURE (kPa)				C	APACI	TY (LF	PM) AT	OR N	EAR TI	HE SE	LEV	EL			
			INJ	ECTOR	D411						PUMP	ONLY				
140-275	90	60	45	35	25	18										
140-275	120	45	35	25	18	5										
140-275	150	35	25	18	15	8										
210-345	180	25	18	15	8											
210-345	205	18	15	8												
210-345	240	15	8													
210-345	270	8														
		II	NJECT	OR D52	21	I	NJECT	OR D5	11			PU	IMP ON	LΥ		
140-275	105	74	64	50	40	25	20	17	13							
140-275	140	64	50	40	25	20	17	13	7							
140-275	165	50	40	25	20	17	13	7								
210-345	195	40	25	20	17	13	7									
210-345	230	25	20	17	13	7										
275-415	255	20	17	13	7											
275-415	280	17	13	7												
275-415	315	13	7													
97E /1E	7 /. E	7														

JJ600 DEEP WELL I	HIGH PRESSURE															
						В	ORE W	/ATER	PUMP	ING LE	VEL (M)				
PRESSURE SWITCH	OPERATING	6	9	12	15	18	21	24	27	30	34	37	40	43	46	49
SETTING (kPa)	PRESSURE (kPa)				C	APACI	TY (LF	PM) AT	OR N	EAR T	HE SE	A LEV	EL			
		INJE	CTOR	D417	INJE	CTOR	D413				PL	IMP ON	ILY			
140-275	140	77	57	44	32	26	19									
140-275	165	57	44	32	26	19	11									
140-275	195	44	32	26	19	11	8									
210-345	230	32	26	19	11	8										
210-345	255	26	19	11	8											
275-415	280	19	11	8												
275-415	315	11	8													
275-415	345	8														
			34	45		II	NJECT	OR D5	13			PL	JMP ON	ILY		
140-275	165	100	86	64	48	41	31	21	16							
140-275	195	86	64	48	41	31	21	16	8							
210-345	225	64	48	41	31	21	16	8								
210-345	255	48	41	31	21	16	8									
275-415	280	41	31	21	16	8										
275-415	315	31	21	16	8											
345-485	345	21	16	8												
345-485	370	16	8													
345-485	405	8														
						INJE	CTOR	D620						PUMP	ONLY	
140-275	165				52	46	40	33	25	21	18	14				
140-275	195			52	46	40	33	25	21	18	14	8				
210-345	225		52	46	40	33	25	21	18	14	8					
210-345	255	52	46	40	33	25	21	18	14	8						
275-415	280	46	40	33	25	21	18	14	8							
275-415	315	40	33	25	21	18	14	8								
345-550	345	33	25	21	18	14	8									
345-550	370	25	21	18	14	8										
345-550	405	21	18	14	8											
345-550	435	18	14	8												
345-550	460	14	8													
345-550	495	8														

OJ DEEP WELL

WATER PRESSURE SYSTEMS

0J700 DEEP WELL HIGH PRESSURE

						вог	RE WA	ATERI	PUMP	ING L	EVEL	(M)				
RESSURE SWITCH	OPERATING PRESSURE	6	9	12	15	18	21	24	27	30		37	40	43	46	4
SETTING (kPa)	(kPa)				CAP	ACIT'	(LP	M) AT	OR N	EAR 1	THE S	EA LE	VEL			
		IN	JECT D414			INJE	CTOR	D415				PU	MP OI	NLY		
210-345	180	88	77	59	41	31	27	17	14							
210-345	205	77	59	41	31	27	17	14	8							
210-345	240	59	41	31	27	17	14	8								
210-345	270	41	31	27	17	14	8									
275-415	295	31	27	17	14	8										
275-415	330	27	17	14	8											
345-485	360	17	14	8												
345-485	385	14	8													
345-485	415	8														
		IN	JECT	OR D5	514	INJE	CTOR	D515	IN	JECT	OR DE	516		PUMP	ONL	,
210-345	195	122	98	76	63	51	42	31	27	20	14	11				
210-345	225	98	76	63	51	42	31	27	20	14	11	9				
210-345	255	76	63	51	42	31	27	20	14	11	9	8				
275-415	280	63	51	42	31	27	20	14	11	9	8					
275-415	315	51	42	31	27	20	14	11	9	8						
345-485	345	42	31	27	20	14	11	9	8							
345-485	370	31	27	20	14	11	9	8								
345-550	405	27	20	14	11	9	8									
345-550	435	20	14	11	9	8										
415-620	460	14	11	9	8											
415-620	495	11	9	8												
415-620	525	9	8													
415-620	550	8														
		IN	JECT	OR DE	311	INJE	CTOR	D612		INJE	CTOR	D613		PU	MP 01	JL'
210-345	195	136	123	111	91	67	60	47	42	35	26	21	16			
210-345	225	123	111	91	67	60	47	42	35	26	21	16	8			
210-345	255	111	91	67	60	47	42	35	26	21	16	8	Ŭ			
275-415	280	91	67	60	47	42	35	26	21	16	8					Г
275-415	315	67	60	47	42	35	26	21	16	8	Ť					
345-485	345	60	47	42	35	26	21	16	8	Ť						
345-485	370	47	42	35	26	21	16	8								
345-550	405	42	35	26	21	16	8									
345-550	435	35	26	21	16	8										
415-620	460	26	21	16	8	Ť										
415-620	495	21	16	8	Ĭ											Г
480-690	525	16	8	Ĭ												Г
480-690	550	8														

AREAS LABELLED "PUMP ONLY"

Duty points in the areas labelled "Pump Only" use the same injectors as the closest shaded duty. This is the highest pressure injector available for the pump. The pump can be used at this duty for water transfer and similar applications, but cannot be used as a water pressure system (i.e. pump stopped by a pressure switch at cut-out pressure).

This is for the following reasons:

 The cut-in pressure must be kept high enough so that the injector will function correctly at the required depth.

- 2. The differential between cut-in pressure and cut-out pressure at the pressure switch needs to be close to 140kPa (minimum) for reliable pressure switch operation. This means that the cut-out pressure must be at least 140kPa above the cut-in pressure.
- As the suction depth increases, the top head that can be developed by the pump decreases. In the extreme case (areas labelled "Pump Only"), this top head is below cut-out pressure, and the pump will not switch off.

In these cases, your system may use level sensors (e.g float switch, probes or pressure sensor) or flow sensors to shut off the pump.

OJ DEEP WELL

WATER PRESSURE SYSTEMS

0J800 DEEP WELL HIGH PRESSURE

						BOF	RE WA	ATER	PUMP	ING L	EVEL	.(M)				
PRESSURE SWITCH	OPERATING PRESSURE	6	9	12	15	18	21	24	27	30	34	37	40	43	46	49
SETTING (kPa)	(kPa)				CAP	ACIT	(LPI	M) AT	OR N	EAR 1	THE S	EA LE	VEL			
		INJE	CTOR	D520		INJE	CTOR	D518		II	NJECT	OR D5	19	PL	JMP 01	NLY
275-415	255	161	136	113	85	62	57	43	38	31	23	19	14			
275-415	280	136	113	85	62	57	43	38	31	23	19	14	11			
345-485	315	113	85	62	57	43	38	31	23	19	14	11	8			
345-485	345	85	62	57	43	38	31	23	19	14	11	8				
345-485	370	62	57	43	38	31	23	19	14	11	8					
415-620	405	57	43	38	31	23	19	14	11	8						
415-620	435	43	38	31	23	19	14	11	8							
480-690	460	38	31	23	19	14	11	8								
480-690	495	31	23	19	14	11	8									
480-690	525	23	19	14	11	8										
550-760	550	19	14	11	8											
550-760	585	14	11	8												
550-760	615	11	8													
550-760	640	8														
		INJE	CTOR	D618	INJE	CTOR	D619	INJE	CTOR	D616		II	NJECT	OR D6	17	
275-415	205	205	172	152	125	101	84	68	60	50	46	40	33	29	25	21
275-415	240	172	152	125	125	101	84	68	60	50	46	40	33	29	25	21
275-415	270	152	125	125	101	84	68	68	60	50	46	40	33	29	25	21
275-415	295	125	125	101	84	68	68	60	50	46	40	33	29	25	21	10
275-415	330	125	101	84	68	68	60	50	46	40	33	29	25	21	10	
345-485	360	101	84	68	68	60	50	46	40	33	29	25	21	10		
345-485	385	84	68	68	60	50	46	40	33	29	25	21	10			
415-620	415	68	68	60	50	46	40	33	29	25	21	10				
415-620	450	68	60	50	46	40	33	29	25	21	10					
480-690	475	60	50	46	40	33	29	25	21	10						
480-690	510	50	46	40	33	29	25	21	10							
550-760	535	46	40	33	29	25	21	10								
550-760	565	40	33	29	25	21	10						PU	10 PM	٧LY	
550-760	590	33	29	25	21	10										
550-760	620	29	25	21	10											
550-760	625	25	21	10												
690-895	690	21	10													
	715	10	_	1	_			_	1		1	_	_	_	1	1

COMPOSITE FARMMASTER

onga

543 JET PUMP



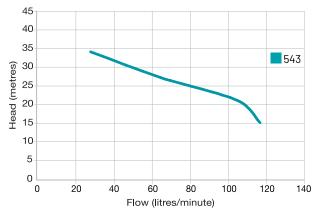


KEY FEATURES

- Industrial grade corrosion-resistant thermoplastic.
- No moving parts down bore.
- Built-in check valve.
- Shallow well lifts to 7.6m.
- Manual or automatic system.
- Max. head 41m.
- Max. flow 118lpm.

APPLICATIONS

For domestic, industrial or rural use as a manual or an automatic pressure system. Stock watering, irrigation and water transfer from a large range of water sources including tanks, bores, dams, creeks and rivers.



		PRESS.	SUCTION	DIS	CHAI	RGE I	HEAD	(M)	MAX.
M	ODEL	SWITCH	LIFT	15	21	27	34	40	PUMP
		SETTING (kPa)	(M)	C	APA	CITY	(LPM	I)	PRESS. (kPa)
			0	117	105	65	28		390
	543	210-350	3	94	84	52	22		360
•	543	210-350	6	67	60	37	16		330
			7.6	47	42	26	11		315

SUITABLE PRESSURE TANKS

Each pressure tank in the Onga range is constructed to store water under pressure to minimise pump cycling and running costs and to maximise pump life. To size the tank, determine the pumps pressure switch setting then choose a tank with the draw off you require at that setting.

DRAW OFF IN LITRES

PRESSURE			AQUAPA	CK PLUS		
SWITCH SETTINGS kPa	APP8	APP12	APP24	APP40	APP80	APP100
100-200	2.5	3.8	7.6	12.7	25.3	31.7
140-275	2.7	4.1	8.1	13.6	27.1	33.9
210-340	2.2	3.3	6.6	11.0	22.0	27.5
275-415	2.0	3.0	6.0	10.1	20.2	25.2
275-450	2.4	3.5	7.1	11.8	23.6	29.5
345-550	2.3	3.5	7.0	11.6	23.3	29.1
410-620	2.1	3.2	6.4	10.7	21.5	26.8
480-690	12.0	2.9	5.9	-	-	-
CAPACITY (LITRES)	8	12	24	40	80	100
MAX. RATING (kPa)		690			600	
DIAMETER (CM)	19	22	30	38	38	38
HEIGHT (CM)	23	33	41	53	72	91
BSP			1"	М		
WEIGHT (KG)	2.35	3.2	5.5	10.4	14.3	20.0



PPECOLIPE			PRO-SO	URCE FIE	REWOUN	D	
PRESSURE SWITCH SETTINGS kPa	APSC -14-4- 01	APSC -20-6- 01	APSC -30-9- 01	APSC -48-14- 01	APSC -60-20- 01	APSC -85-25- 01	APSC -119-35- 01
138-275	18.7	25.5	38.1	60.5	77.2	111.5	154
207-345	16.5	22.5	33.5	53.5	68.1	98.5	135.9
275-414	14.3	19.5	29.1	46.3	59.0	85.3	117.8
CAPACITY (LITRES)	55	75	112	178	227	328	453
MAX. RATING (kPa)				690			
DIAMETER (CM)		41		61	53	6	61
HEIGHT (CM)	71.6	86.6	117.6	112.8	166.4	145.3	191.5
BSP		1"M			11/4	4"M	
WEIGHT (KG)	9.6	11.5	14	23.6	27.7	34.5	42.7



The volume of draw off required is determined by the size of the pump and the application. For applications where demand is generally lower than the pump's capacity, a larger tank is required to minimise cycling. For applications where the demand is evenly matched to the pump's output, a smaller tank will suffice.

FOR EXAMPLE:

Stock troughs may have a peak demand period whereby the pump will run constantly and in non-peak demand times, the pump is only topping up troughs or responding to leaking ball valves. A larger tank is desirable so as to use the stored pressure rather than having the pump cycling.

When the pump is connected to a sprinkler system, which has a constant demand, only the minimum tank size is required.

Note:

- Always size the tank to the smallest demand of the pump.
- It is impossible to have a pressure tank that is 'too big.'

TECHNICAL DATA

WATER PRESSURE PUMPS

MATERIALS OF CONSTRUCTION

COMPONENT			MODEL		
COMPONENT	543	JJ400	JJ600	0J700	0J800
PUMP CASING	NORYL	CAST IRON	CAST IRON	CAST IRON	CAST IRON
IMPELLER	POLYCARB GF				
BAFFLE	NORYL	ABS GF	NORYL	NORYL	NORYL
END SHIELD	CAST IRON				
SHAFT SLEEVE	NYLON	NYLON	NYLON	NYLON	STAINLESS STEEL
MOTOR SHAFT	Mild Steel				
MOTOR SHELL	CAST IRON	ALUMINIUM	CAST IRON	CAST IRON	CAST IRON
O-RING'S	NITRILE	NITRILE	NITRILE	NITRILE	NITRILE

MOTOR DATA

		MODEL						
	543	JJ400	JJ600	JJ600 3PH	0J700	0J700 3PH	0J800	0J800 3PH
TYPE		TEFC 2 POLE CONTINUOUSLY RATED THERMALLY PROTECTED						
NOMINAL SPEED		2900 RPM						
IP RATING	IP44	IP55 IP44						
INSULATION CLASS				CLA	SS B			
TEMPERATURE RISE				CLA	SS B			
FREQUENCY		50HZ						
BEARING TEMP. RATING		100 °C						

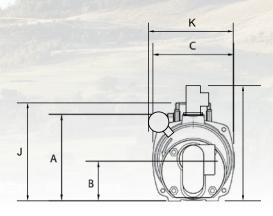
MODEL DATA

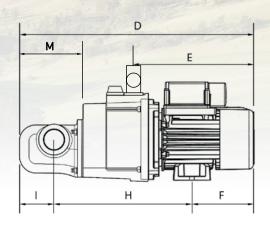
HODEL DATA								
	MODEL							
	543	JJ400	JJ600	JJ600 3PH	0J700	0J700 3PH	0J800	0J800 3PH
SUPPLY VOLTAGE		230		415	230	415	230/480	415
PHASE		1		3	1	3	1	3
MOTOR INPUT POWER (P1) (KW)	1.4	1	1.4	1.5		2	3.6	3.4
STARTING CURRENT (AMPS)	42	19	42	27	42	27	76	48
FULL LOAD CURRENT (AMPS)	6.4	4.5	6.4	2.6	8.5	3.6	14-Jul	5.7
POWER SUPPLY LEAD (AMPS)		10		H07RN-F 4G1.5mm ² x2m	10	H07RN-F 4G1.5mm ² x2m	15-Jan	H07RN-F 4G1.5mm ² x2m
PUMP WEIGHT (KG)	25	18	,	31	40		50	
PACKED WEIGHT (KG)	27	19	3	33	42			58
OUTLET (BSP)	3/4' FEMALE					1' FEN	1ALE	
CARTON DIMENSIONS (LxWxH mm)	590x300x330				560x3	50x450	670×4	80x470

DIMENSIONS DATA

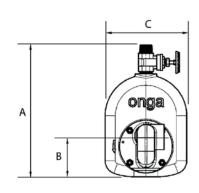
WATER PRESSURE PUMPS

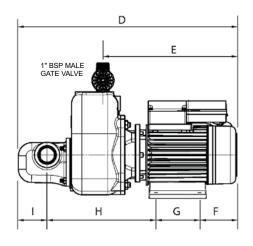
JJ400 & JJ600 - SHALLOW WELL CONFIGURATION



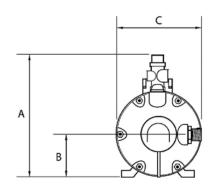


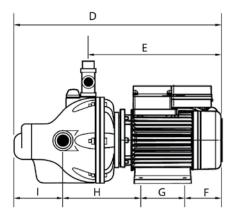
0J700 & 0J800 - SHALLOW WELL CONFIGURATION





543





DIMENSIONS TABLE

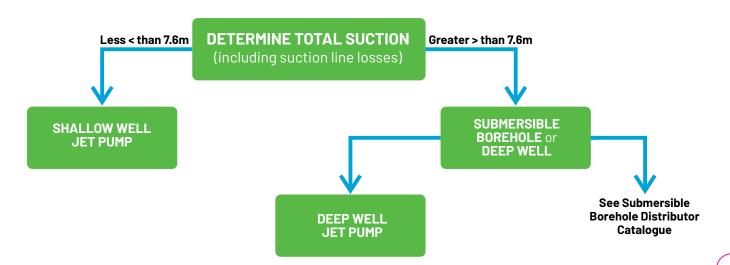
MODEL	A	В	С	D	Е	F	G	Н	- 1	J	K	L	М
JJ400	190	90	180	525	255	140	NA	305	80	220	NA	NA	NA
JJ600 (1PH)	210	105	210	540	335	110	NA	350	80	265	220	285	135
JJ600 (3PH)	210	105	210	560	350	125	NA	355	80	245	220	285	135
0J700 (1PH)	350	110	220	575	365	110	NA	285	80				
0J700 (3PH)	350	110	220	590	380	125	100	285	80				
0J800 (1PH)	350	110	280	640	410	120	140	300	80				
OJ800 (3PH)	350	110	280	640	420	125	140	300	80				
543	290	100	230	530	330	110	100	205	115				

HOW TO SELECT & INSTALL CONVERTIBLE JET PUMPS

WATER PRESSURE PUMPS

The Onga Farmmaster range comprises of four rugged cast iron pumps (JJ and OJ), and one non-corrosive moulded jet pump (543).

The JJ and OJ range are highly adaptable to your customer's particular site and water requirements. This also means that inexpensive adjustments can be made to the pump on site to fine tune its operation.



CUSTOMER SITE DATA:

- Water depth. This added to friction losses through footvalve and suction lines give total suction head (0-7.6m)
- Discharge head pressure required (m or kPa) - This includes pressure required by the application, friction loss from delivery to usage points, and height differences.
- Volume required (I/m)

Using the Shallow Well Jet Pump selection tables (pages 6 -7), select the pump and injector combination that delivers the right flow at the design suction and delivery heads.



Select a pressure tank of at least the volume suggested on page 18. A larger tank can reduce pump cycling and operating cost.



Install the pump with foot valve or check valve, suction line, injector and pressure tank. Adjust the pressure switch to suit the application and injector fitted.

Deep Well Jet Pumps are more suitable than submersible pumps where the following conditions may exist:

Depths down to 49 metres, corrosive water, sandy water, low or variable flow rates.

CUSTOMER SITE DATA:

- Water depth. Suction pipe sizes are given for each injector, and performance shown in the tables takes this friction loss into account.
- Discharge head pressure required (m or kPa) - This includes pressure required by the application, friction loss from delivery to usage points, and height differences.

Total delivery head must be converted to kPa.

Using the Deep Well Jet Pump selection tables (pages 8 -11), select the pump and injector combination that delivers the right flow at the design suction and delivery heads. The operating pressure must be maintained above the minimum injector pressure. See next page for more details.



Select a pressure tank of at least the volume suggested on page 18.

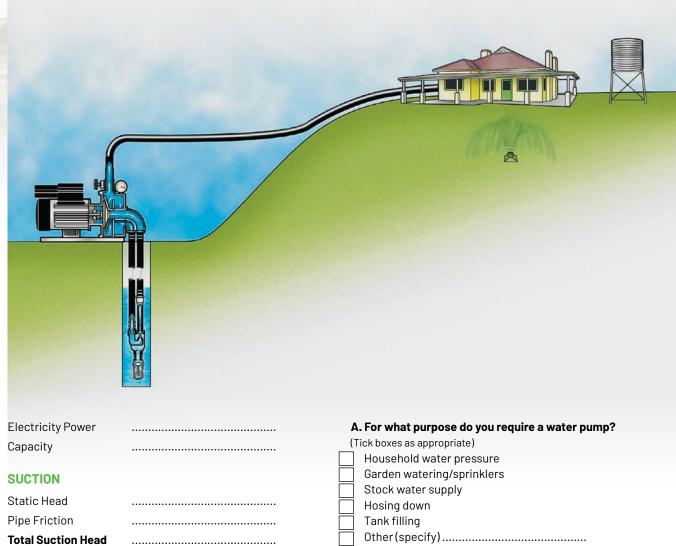
A larger tank can reduce pump cycling and operating cost.



Install the pump and injector using correctly sized pipes. The injector must be installed at least 3m below water level. Adjust the pressure switch to suit the application and injector fitted. Adjust the gate valve to ensure that minimum operating pressure is maintained.

FARMMASTER

PUMP SELECTION GUIDE



Licotholty i ower	 Act of What purpose as you require a water pump.
Capacity	 (Tick boxes as appropriate)
, ,	Household water pressure
SUCTION	Garden watering/sprinklers
Static Head	Stock water supply
	 Hosing down
Pipe Friction	 Tank filling
Total Suction Head	 Other(specify)
DELIVERY	B. Total flow required (if known)
Ctatic Hood	litres/min
Static Head	 Alternatively: Total No. of taps to be serviced
Pipe Friction	 at one time
Discharge Pressure	 O1 Francisch about a service of consultation by the constant about a decision
Total Delivery Head	 C1. From what source of supply is the water to be drawn?
	River, Creek or Channel
TOTAL HEAD	☐ Dam
	Rainwater tank above ground
Total Suction Head	 Underground tank
Total Delivery Head	 Bore
Total Head	 C2. If Bore

C3. If water is to be drawn from bore:
State quantity of water bore will deliver litres/min.
From what constant depth metres

State inside diameter of casing mm

State if water supply is clean, muddy or gritty.

Depth metres

FARMMASTER

ORDERING INFORMATION

Onga Farmmaster pumps are sold in component form to maximise their ability to tailor to individual requirements. Ordering is a three step process.

- STEP 1 Identify the pump required.
- STEP 2 Identify the injector selected.
- STEP 3 Identify the pressure tank required.

- SELECT PUMP MODEL • STEP 1 **PUMP MODEL JJ400 JJ600** 0J700 **0J800** 543# JJ400 JJ600 0J700 0J800 543 110031 110021 110144 110121 354300 1PH 1PH 1PH 1PH 1PH JJ600 0J700 0J800 110044 110119 110124 3PH 3PH 3PH

Injector included, go to step 3

• STEP 2

- CHOOSE INJECTOR

SHALLOW WELL INJECTORS

JJ	400	JJ600		JJ600 0J700		0J800	
MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.
S500	110445	S600	110448	0J700	110119	S800	110476
S501	110446	S601	110449	S700	110471	S801	110477
S502	110447	S602	110450	S701	110472	S802	110478
		S603	110451	S702	110473	S803	110479
				S703	110474	S804	110480
				S704	110475	S805	110481
						S806	110482

	DEEP WELL INJECTORS									
JJ	400	JJ	JJ600		J 7 00	0J800				
MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.			
D411	D411E	D417	D417E	D414	D414E	D520	D520E			
D512	D512E	D413	D413E	D415	D415E	D518	D518E			
D511	D511E	D523	D523E	D514	D514E	D519	D519E			
		D513	D513E	D515	D515E	D618	D618E			
		D620	D620E	D516	D516E	D619	D619E			
				D611	D611E	D616	D616E			
				D612	D612E	D617	D617E			
				D613	D613E					

Part numbers are for kits with over bore flange. For offset flange replace "E" with "0" on the part number.

• STEP 3	7	- CI	HOOSE PRI	ESSURE TA	ANK		
AQUAPACK PLUS							
MODEL	APP8	APP12	2 API	P24	APP40	APP80	APP100
PART NO.	110491	110492	2 110	493	110494	110495	110496
			PRO-SOURCE	FIBREWOUND			
MODEL	FW14	FW20	FW30	FW48	FW60	FW85	FW119
PART NO.	APSC-14-4-01	APSC-20-06-01	APSC-30-9-01	APSC-48-14-01	APSC-60-20-01	APSC-85-25-01	APSC-119-35-01

TROUBLESHOOTING FARMMASTER

WATER PRESSURE PUMPS

ALL MODELS

SYMPTOM	CAUSE	REMEDY	
NO WATER	Pump not running	Check power supply.	
NU WAIER	Gate valve closed	Open gate valve.	
	Foot valve leaking	Check foot valve for seal, fix or replace.	
	Air lock	Check suction line for humps. Prime with engine drive pump to score air from lines.	
WILL NOT PRIME	Wrong injector for application	Re-evaluate site for pressure and flow requirements. Select an injector that will provide enough pressure at the required flow rate.	
	Water source has been drawn down so that suction is above water line	Check suction is submerged.	
	Pressure switch cut in pressure too low	Reset pressure switch cut in pressure.	
	See above - "No Water"	See above - "No Water".	
LOW FLOW / LOW PRESSURE	Cavitation	Close gate valve to increase pressure to above minimum operating pressure of selected injector.	
	Pipe work sizing	Check pipe work pressure losses an replace with larger pipe if needed.	
	Pressure tank too small	Fit a larger or secondary pressure tank.	
	Pressure tank has incorrect pressure	Check pressure and adjust to 10% below cut in pressure of the pump.	
RAPID CYCLING	Pressure switch setting incorrect	Adjust pressure switch and tank pressure.	
	Pump injector combination too large for application	Re-evaluate site requirements.	
	Pump not reaching cut out pressure	See above "Low Flow/Low Pressure".	
PUMP DOES NOT SHUT OFF	Pressure switch settings	Adjust pressure switch settings to suit application.	
	Leak in piping	Check discharge supply lines for leaks.	



Before carrying out any kind of maintenance or work in or out of the water, disconnect the pump from the mains. If the connection plug or power outlet is wet, isolate that circuit at the metre board. Model JJ600 may be purchased as single or three phase.

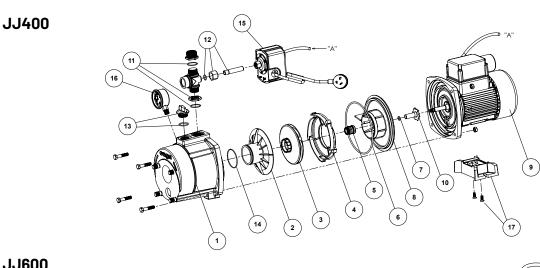


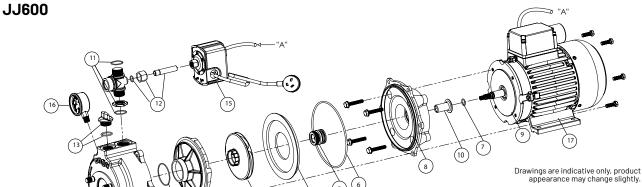
The pump must be protected by an earth leakage circuit breaker with a breaking current of 30milliamps (I∆n<30mA)

- Isolate pump electrically before performing maintenance.
- Ensure power supply is locked out while you are working on that circuit.
- Check power is disconnected using a meter
- Check capacitors for stored charge
- Release system pressure before disconnecting fittings
- Use appropriate lifting equipment when moving these pumps.

SPARE PARTS FARMMASTER

WATER PRESSURE PUMPS





JJ600 1PH PN 110021 JJ600 3PH PN 110044

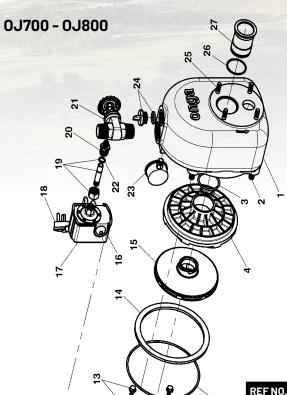
J	J400
PΝ	110031

REF NO.	COMPONENT DESCRIPTION	PART N	0.
1	CASING	800560	1PC
2	SEPARATOR PLATE	404611	1PC
3	IMPELLER	504893K	1PC
4	DIFFUSER	302190K	1PC
5	SEAL KIT (INC. 5, 6 & 10)	800582K	1PC
5a	SEALS (PK 25)	800901	1PC
6	O-RING CASING	702206K	1PC
7	O-RING SLEEVE	-	-
8	BAFFLE	302060K	1PC
9	MOTOR	800442	1PC
10	SHAFT SLEEVE KIT (7 & 9)	800894K	1PC
11	TEE ASSEMBLY	800277	1PC
12	P/SWITCH MOUNTING ASSY.	801237	1PC
13	PRIMING PLUG & O-RING	800017K	1PC
14	O-RING INJECTOR (PK/5)	702210K	1PC
15	PRESSURE SWITCH	700244	-
16	PRESSURE GAUGE	700240	1PC

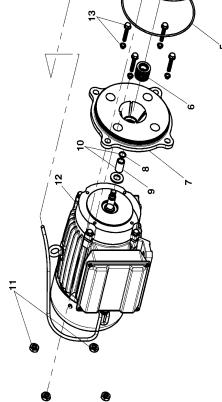
REF NO.	COMPONENT DESCRIPTION	PART NO	0.
1	CASING	800002	1PC
2	DIFFUSER	402810K	1PC
3	IMPELLER (SINGLE PHASE)	506333K	1PC
	IMPELLER (THREE PHASE)	506339K	IPC
4	BAFFLE	403231	1PC
5	SEAL KIT (INC. 5, 6 & 10)	800890K	1PC
5a	SEALS (PK 25)	800900	1PC
6	O-RING CASING	700206K	1PC
7	O-RING SLEEVE	-	-
8	YOKE	402400GN	1PC
9	MOTOR (1 PHASE)	800445	1PC
<u> </u>	MOTOR (3 PHASE)	800447	IFU
10	SHAFT SLEEVE KIT (7 & 10)	800895K	1PC
11	TEE ASSEMBLY	800277	1PC
12	P/SWITCH MOUNTING ASSY.	801237	1PC
13	PRIMING PLUG & O-RING	800017K	1PC
14	O-RING INJECTOR (PK/5)	702210K	1PC
15	PRESSURE SWITCH	700244	1PC
16	PRESSURE GAUGE	700240	1PC

SPARE PARTS FARMMASTER

WATER PRESSURE PUMPS



0J700	0J800
1PH	1PH
PN	PN
110144	110121
0J700	0J800
3PH	3PH
PN	PN
110119	110124



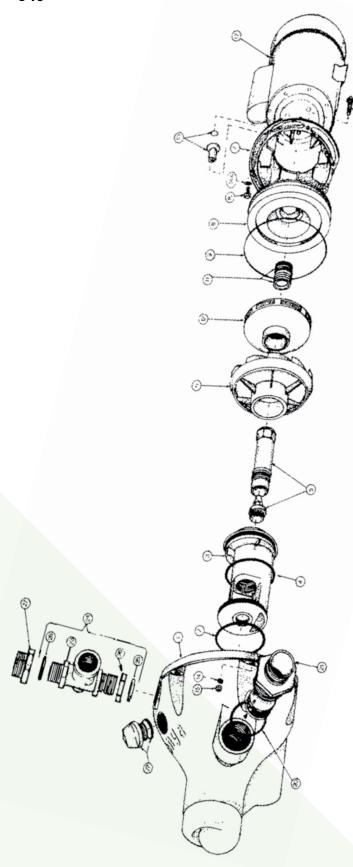
Drawings are indicative on		uct
appearance may change sl	ightly.	

2 CASING STUD (PK 10) 800113 4PC 800113 4PC 3 O'RING DIFFUSER (PK 5) 700219K IPC 700219K IPC 4 DIFFUSER 301431K IPC 401580K IPC 5 O'RING CASING 702165K IPC 702165K IPC 6 SEAL KIT (INC. SEAL + 9 & 10) 800890K IPC 800890K IPC 7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 800934K 4PC 800107K IPC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 12 MOTOR - 1Ø 800447 IPC 800449 IPC 13 BOLT (PK 12)<							
2 CASING STUD (PK 10) 800113 4PC 800113 4PC 3 O'RING DIFFUSER (PK 5) 700219K IPC 700219K IPC 4 DIFFUSER 301431K IPC 401580K IPC 5 O'RING CASING 702165K IPC 702165K IPC 6 SEAL KIT (INC. SEAL + 9 & 10) 800890K IPC 800890K IPC 7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 800934K 4PC 800107K IPC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 12 MOTOR - 1Ø 800447 IPC 800449 IPC 13 BOLT (PK 12)<	REF NO.	COMPONENT DESCRIPTION	PART NO	PART NO.		PART NO.	
3 O'RING DIFFUSER (PK 5) 700219K IPC 700219K IPC 4 DIFFUSER 301431K IPC 401580K IPC 5 O'RING CASING 702165K IPC 702165K IPC 6 SEAL KIT (INC. SEAL + 9 & 10) 800890K IPC 800890K IPC 7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 80093K 4PC 800107K IPC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 12 MOTOR - 1Ø 800445 IPC 800449 IPC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE	1	CASING & STUDS ASSY.	800080	1PC	800080	1PC	
4 DIFFUSER 301431K IPC 401580K IPC 5 O'RING CASING 702165K IPC 702165K IPC 6 SEAL KIT (INC. SEAL + 9 & 10) 800890K IPC 800890K IPC 7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE - IPC - IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 800093K 4PC 8001007K IPC 12 MOTOR - 1Ø 800445 IPC 800449 IPC 12 MOTOR - 3Ø 800447 IPC 800449 IPC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 IPC 401323 IPC 15 IMPELLER - 1PH 506480K IPC <th>2</th> <th>CASING STUD (PK 10)</th> <th>800113</th> <th>4PC</th> <th>800113</th> <th>4PC</th>	2	CASING STUD (PK 10)	800113	4PC	800113	4PC	
5 O'RING CASING 702165K IPC 702165K IPC 6 SEAL KIT (INC. SEAL + 9 & 10) 800890K IPC 800890K IPC 7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 80093K 4PC 80093K 4PC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 12 MOTOR - 3Ø 800447 IPC 800449 IPC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 IPC 401323 IPC 15 IMPELLER - 1PH 506480K IPC 500070K IPC NS IMPELLER - 3PH <	3	O'RING DIFFUSER (PK 5)	700219K	1PC	700219K	1PC	
6 SEAL KIT (INC. SEAL + 9 & 10) 800890K IPC 800890K IPC 7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 80093K 4PC 80093K 4PC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 IPC 401323 IPC 15 IMPELLER - 1PH 506480K IPC 500070K IPC 15 IMPELLER - 3PH 506489K IPC 500070K IPC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 IPC 801449 IPC 19 MOUN	4	DIFFUSER	301431K	1PC	401580K	1PC	
7 YOKE 301270GN IPC 301270GN IPC 8 O'RING SHAFT SLEEVE (PK 5) 702200K IPC 702200K IPC 9 SHAFT SLEEVE - IPC - IPC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 800093K 4PC 800093K 4PC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 IPC 401323 IPC 15 IMPELLER - 1PH 506480K IPC 500070K IPC 15 IMPELLER NUT (3PH) 603250 IPC 603250 IPC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 IPC 801449 IPC 19 MOUNTING ASSY. 800236K IPC 800236K IPC 20 MOUNTING NIPPLE 503510	5	O'RING CASING	702165K	1PC	702165K	1PC	
8 O'RING SHAFT SLEEVE (PK 5) 702200K 1PC 702200K 1PC 9 SHAFT SLEEVE - 1PC - 1PC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K 1PC 801007K 1PC 11 NUT (PK 12) 800093K 4PC 800093K 4PC 12 MOTOR - 1Ø 800445 1PC 800446 1PC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 1PC 401323 1PC 15 IMPELLER - 1PH 506480K 1PC 500070K 1PC 15 IMPELLER - 3PH 506489K 1PC 500079K 1PC NS IMPELLER NUT (3PH) 603250 1PC 603250 1PC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503	6	SEAL KIT (INC. SEAL + 9 & 10)	800890K	1PC	800890K	1PC	
9 SHAFT SLEEVE - 1PC - 1PC 10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K 1PC 801007K 1PC 11 NUT (PK 12) 800093K 4PC 800093K 4PC 12 M0TOR - 1Ø 800445 1PC 800446 1PC 80046 1PC 8004	7	YOKE	301270GN	1PC	301270GN	1PC	
10 SHAFT SLEEVE ASSY. (INC. 8 & 9) 800895K IPC 801007K IPC 11 NUT (PK 12) 800093K 4PC 800093K 4PC 12 MOTOR - 1Ø 800445 IPC 800446 IPC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 IPC 401323 IPC 15 IMPELLER - 1PH 506489K IPC 500079K IPC 16 IMPELLER - 3PH 506489K IPC 500079K IPC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 IPC 801449 IPC 19 MOUNTING ASSY. 800236K IPC 800236K IPC 20 MOUNTING NIPPLE 503510 IPC 503510 IPC 21 GATE VALVE 500490 IPC 500490 IPC NS TEE - 1"BSP BRASS 700280 IPC 700280 IPC NS TEE - 1"BSP BRASS 70024	8	O'RING SHAFT SLEEVE (PK 5)	702200K	1PC	702200K	1PC	
11	9	SHAFT SLEEVE	-	1PC	-	1PC	
MOTOR - 10 800445 1PC 800446 1PC	10	SHAFT SLEEVE ASSY. (INC. 8 & 9)	800895K	1PC	801007K	1PC	
12 MOTOR - 3Ø 800447 1PC 800449 1PC 13 BOLT (PK 12) 800242K 4PC 800242K 4PC 14 BAFFLE 401322 1PC 401323 1PC 15 IMPELLER - 1PH 506480K 1PC 500070K 1PC NS IMPELLER - 3PH 506489K 1PC 500079K 1PC NS IMPELLER NUT (3PH) 603250 1PC 603250 1PC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 700240 1PC 23 PRESSURE GAUGE 700240	11	NUT (PK 12)	800093K	4PC	800093K	4PC	
MOTOR - 30 800447 1PC 800449 1PC 13	10	MOTOR - 1Ø	800445	1PC	800446	1PC	
14 BAFFLE 401322 1PC 401323 1PC 15 IMPELLER - 1PH 506480K 1PC 500070K 1PC IMPELLER - 3PH 506489K 1PC 500079K 1PC NS IMPELLER NUT (3PH) 603250 1PC 603250 1PC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 700240 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	12	MOTOR - 3Ø	800447	1PC	800449	1PC	
IMPELLER - 1PH 506480K 1PC 500070K 1PC IMPELLER - 3PH 506489K 1PC 500079K 1PC NS IMPELLER NUT (3PH) 603250 1PC 603250 1PC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	13	BOLT (PK 12)	800242K	4PC	800242K	4PC	
15 IMPELLER - 3PH 506489K 1PC 500079K 1PC NS IMPELLER NUT (3PH) 603250 1PC 603250 1PC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	14	BAFFLE	401322	1PC	401323	1PC	
IMPELLER - 3PH 506489K 1PC 500079K 1PC NS IMPELLER NUT (3PH) 603250 1PC 603250 1PC 17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	16	IMPELLER - 1PH	506480K	1PC	500070K	1PC	
17 PRESSURE SWITCH ASSY. (INC. LEAD) 801457 1PC 801449 1PC 19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	ıə	IMPELLER - 3PH	506489K	1PC	500079K	1PC	
19 MOUNTING ASSY. 800236K 1PC 800236K 1PC 20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	NS	IMPELLER NUT (3PH)	603250	1PC	603250	1PC	
20 MOUNTING NIPPLE 503510 1PC 503510 1PC 21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	17	PRESSURE SWITCH ASSY. (INC. LEAD)	801457	1PC	801449	1PC	
21 GATE VALVE 500490 1PC 500490 1PC NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	19	MOUNTING ASSY.	800236K	1PC	800236K	1PC	
NS TEE - 1"BSP BRASS 700280 1PC 700280 1PC 22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	20	MOUNTING NIPPLE	503510	1PC	503510	1PC	
22 O'RING - MOUNTING ASSY. 702172 1PC 702172 1PC 23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	21	GATE VALVE	500490	1PC	500490	1PC	
23 PRESSURE GAUGE 700240 1PC 700240 1PC 24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	NS	TEE - 1"BSP BRASS	700280	1PC	700280	1PC	
24 PRIMING PLUG & O'RING 800017K 1PC 800017K 1PC	22	O'RING - MOUNTING ASSY.	702172	1PC	702172	1PC	
	23	PRESSURE GAUGE	700240	1PC	700240	1PC	
25 STUD (PK 10) 800114 4PC 800114 4PC	24	PRIMING PLUG & O'RING	800017K	1PC	800017K	1PC	
20 0100 (1110)	25	STUD (PK 10)	800114	4PC	800114	4PC	
26 O'RING - SPIGOT (PK 5) 702210K 1PC 702210K 1PC	26	O'RING - SPIGOT (PK 5)	702210K	1PC	702210K	1PC	
27 SPIGOT 507011 1PC 507011 1PC	27	SPIGOT	507011	1PC	507011	1PC	
NS HOUSING BARESHAFT ASSY. 800221 1PC 800221 1PC	NS	HOUSING BARESHAFT ASSY.	800221	1PC	800221	1PC	

SPARE PARTS FARMMASTER

WATER PRESSURE PUMPS

543



		PN 354300	
REF NO.	COMPONENT DESCRIPTION	PART NO.	
1	CASING	301190	1PC
2	O'RING - INJECTOR HOUSING (FRONT)	702185K	1PC
3	HOUSING - INJECTOR	301200	1PC
4	O'RING - INJECTOR HOUSING (REAR)	700204K	1PC
5	JET & VENTURI	801152	1PC
6	DIFFUSER	402810K	1PC
7	YOKE	301180	1PC
8	BAFFLE	402301K	1PC
9	O'RING - CASING	702184K	1PC
10	SHAFT SLEEVE & O'RING	800895K	1PC
10B	O'RING - SHAFT SLEEVE (PACK OF 10)	702218K	1PC
11	SEAL KIT	800583	1PC
11	SEAL (PACK OF 25)	800900	1PC
12	IMPELLER	506333K	1PC
13	COACH BOLT (SET OF 10)	800254	6PC
14	WASHER (SET OF 20)	800151	6PC
15	NUT (SET OF 12)	702025K	6PC
17	MOTOR - 1PH	800445	1PC
18	BASE & SCREWS KIT	NLA	1PC
19	SCREW (SET OF 10)	NLA	2PC
20	O'RING (PACK OF 5)	702182K	1PC
21	NIPPLE & CLACKER ASSY	800296K	1PC
22	PRIMING PLUG & O'RING	800017K	1PC
23	TEE - THREADED DISCHARGE	NLA	1PC
24	TEE ASSEMBLED - THREADED DIS.	800277	1PC

543

Drawings are indicative only, product appearance may change slightly.





1–21 Monash Drive, Dandenong South, Vic 3175

Australia

National Customer Service: Phone: 1300 137 344
Fax: 1800 006 688
National Dealer Locator: Phone: 1800 664 266
Email: au.sales@pentair.com
Web: pentair.com.au

International Australia

Phone: +61 3 9709 5800 Fax: +61 3 9709 5888

© Information contained here-in remains the property of Pentair Australia Pty Ltd. Any reproduction, display, publication, modification or distribution is strictly prohibited without the prior written permission of Pentair Australia Pty Ltd.

Disclaimer: Pentair reserves the right to change product specifications and products details. All product images are for reference purposes only and may not represent actual and/or current product.

All indicated Pentair trademarks and logos are property of Pentair. Third party registered and unregistered trademarks and logos are the property of their respective owners.

© 2022 Pentair. All rights reserved.