

**The ideal pumps for high flow rates at medium/low heads
and they are widely used for low pressure irrigation.
Heavy duty construction with high efficiencies and
exceptional capacities**

Applications:

Suitable for low pressure irrigation, flood and spray irrigation, pumping water from wells, rivers and lakes, for industry and agriculture, domestic, civil, industrial, residential, commercial, washing and hobby uses, gardening, jet washing, stock watering, dairy washdown, vegetable washing, horticulture, hobby farm, turf irrigation, water distribution, household, in-ground tank installation, underground water storage tanks installation, fountains, water features and urban decoration, station washing, nurseries, rain water collection, water circulation, water transfer, air conditioning and cooling systems, etc.

**Energy efficient hydraulic design for cost-effective operation.
Easy to install and dismantle for service.**



I-36063 Marostica (Vicenza) Italy
www.valco.eu

A Irrigua™-3 Range VALCO BRAND CENTRIFUGAL SINGLE STAGE IRRIGATION ELECTRIC PUMPS FOR HIGH CAPACITIES HEAVY DUTY CAST IRON

Pump and motor construction data
with limits of use and operating conditions

Types		HP	kW	Q= Performance at 2900 rpm																	In (A) 1x230 V	In (A) 3x400 V	Max Eff. %						
1 PH 230V 50Hz	3 PH 230/400V 50Hz			0	3	6	7,5	9	12	15	18	24	30	36	42	48	54	60	72	84				96	100	1200	1400	1600	
A1Q-1	A1Q-1T	0,8	0,6	15,0	14,3	13,0	12,3	11,6	9,5	6,2															3,4	1,5	67		
A1H-1	A1H-1T	0,8	0,6	15,0	14,3	13,0	12,3	11,6	9,5	6,2																3,4	1,5	67	
A1Q-2	A1Q-2T	1	0,75	20,5	19,8	18,9	18,4	17,7	15,5	12,6	8,0																5,3	2,4	67
A1H-2	A1H-2T	1	0,75	20,5	19,8	18,9	18,4	17,7	15,5	12,6	8,0																5,3	2,4	67
A2-1	A2-1T	0,8	0,6	10,1	10,1	9,8	9,6	9,3	8,6	7,9	7,0	4,9															3,5	1,3	67
A2-2	A2-2T	1	0,75	12,8	12,6	12,2	11,9	11,6	10,7	9,9	8,9	6,8															4,5	1,6	71
A2-2A	A2-2AT	1,2	0,9	15,0	14,8	14,3	14,0	13,6	12,8	11,9	10,9	8,7	5,9														5,4	2,0	71
A2-3	A2-3T	1,5	1,1	12,3		12,3	12,3	12,2	12,1	11,8	11,0	10,2	9,1	7,7	6,0												8,8	3,3	74
-	AG2-6CT	2	1,5	14,3		14,1	14,0	13,9	13,6	13,1	12,6	11,4	10,0	8,5	6,8	5,0											-	3,6	68
A2-4	A2-4T	2,2	1,65	13,8		13,8	13,8	13,7	13,6	13,4	13,1	12,4	11,6	10,6	9,4	7,8	6,0										10,0	3,9	74
AL2-10	-	1	0,75	17,5	17,5	17,5	17,2	16,7	15,2	13,2	10,5																6,0	-	62
AL2-11	AL2-11T	1,5	1,1	21,5	21,5	21,5	21,2	20,6	19,2	17,5	15,3	8,8															8,5	3,0	62
AL2-20	AL2-20T	1,5	1,1	24,5		23,9	23,5	22,9	21,4	19,5	17,3	11,6															8,3	3,4	61
AL2-21	-	2	1,5	26,3		25,9	25,6	25,0	23,6	21,7	19,6	14,1															10,1	-	62
-	AL2-21T	2	1,5	28,8		27,6	27,2	26,7	25,3	23,5	21,3	15,6															-	4,7	62
AL2-22	AL2-22T	3	2,2	31,2		30,5	30,2	29,6	28,3	26,4	24,3	18,6	11,0														12,4	5,0	62
A2-25SS	A2-25SST	1,5	1,1	9,8		9,5	9,4	9,3	8,9	8,4	7,9	6,9	5,7														6,8	3,2	55
A2-26SS	A2-26SST	2	1,5	13,2		12,7	12,6	12,5	12,3	12,0	11,5	10,5	9,3	7,9	6,5												9,0	3,7	54
-	A22-27SST	3	2,2	15,5		15,0	14,9	14,8	14,5	14,2	13,8	12,9	12,0	11,2	10,2	9,2	8,0										-	4,5	54
-	A22-28SST	4	3	18,0		17,5	17,4	17,2	16,9	16,6	16,3	15,6	14,8	13,9	12,9	11,8	10,5	9,1									-	6,1	57
A32-30	A32-30T	3	2,2	26,1		26,0	25,9	25,6	25,0	24,2	23,0	20,0	16,0	10,5													13,5	5,1	60
A32-31	A32-31T	4	3	31,9		31,8	31,8	31,8	31,6	30,8	29,7	27,0	23,0	18,4	12,3												20,5	7,6	65
-	A32-32T	5,5	4	37,0		37,0	37,0	37,0	37,0	36,4	35,5	33,0	29,4	25,0	19,0												-	10,0	65
A3-40	A3-40T	2,2	1,65	14,2						14,2	14,2	13,8	12,9	11,7	9,9	7,8	4,8										11,0	3,6	66
A3-41	A3-41T	3	2,2	17,5						17,5	17,5	17,2	16,4	15,5	14,2	12,3	9,9	7,0									15,0	4,9	71
-	A3-42T	4	3	21,5						21,5	21,5	21,4	20,8	19,9	18,9	17,7	15,9	13,5									-	6,7	76
A4-50	A4-50T	4	3	13,5									14,1	14,1	13,9	13,4	12,8	12,1	10,3	8,3	6,1					18,0	6,2	77	
-	A4-51T	5,5	4	17,0									17,3	17,3	17,1	16,8	16,3	15,7	14,4	12,2	10,0					-	8,8	77	

• Reduction in speed will result in a fall of performance. • DO NOT RUN PUMP DRY! • Tolerances according to ISO 9906Grade 3B.

OPERATING CONDITIONS (LIMITS OF USE)

Maximum temperature of pumped liquid °C	0 +90; 0 +50 for Noryl® impeller
Maximum working pressure (maximum permissible/allowed pressure in the pump casing) kPa / bar	600 / 6; 800 / 8 for SS types
Maximum ambient temperature °C	40
Type of pumped liquid	Neutral clean water and fluid chemically and mechanically non-corrosive, non-aggressive, non-abrasive, non-explosive
Density of pumped liquid with γ =water specific gravity kg/dm ³	1
Presence of solids in suspension	NO

CONSTRUCTION MATERIALS

Pump body	Cast iron; Stainless steel DIN/EN 1.4301 (AISI 304) for SS types
Pump bracket	Cast iron; aluminium for SS types*
Impeller/s	Cast iron; Noryl® for A1Q and A1H types**; Brass for AL2 types; Stainless steel DIN/EN 1.4301 (AISI 304) for SS types
Shaft (pump side)	Stainless steel DIN/EN 1.4305 (AISI 303); Stainless steel DIN/EN 1.4005 (AISI 416) up to 0,75 kW; Stainless steel DIN/EN 1.4301 (AISI 304) for SS types
Mechanical seal	Ceramic, carbon-graphite
Motor casing	Aluminium

*Mechanical seal holding disc in stainless steel DIN/EN 1.4301 (AISI 304) for SS types

** Available also in brass

MOTOR

Asynchronous Electric motor	
Number of poles	2
Insulation class	F
Degree of protection IP	44; 55 for SS types
Service	Continuous duty
Built in thermal protection for 1phase version	Yes up to 1.65 kW
Maximum tolerance (fluctuation) from the nominal voltage	±6%
Starts per hour max	30 up to 2 kW, 20 up to 4 kW, 10 over 4 kW.

3phase version the overload motor protection must be provided by the user (we recommend the use of a control box)

1phase version for 2,2 kW and above the overload motor protection must be provided by the user (we recommend the use of a control box)

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TYPES		DIMENSIONS IN mm								Kg	DNa	DNm
		L	W	H	a	b	c	d	e			
A1Q-1	A1Q-1T	308	170	222	97	45	120	115	155	12,2	1"1/2	1"1/4
A1H-1	A1H-1T	308	170	222	97	45	120	115	155	12,2	1"1/2	1"1/2
A1Q-2	A1Q-2T	308	170	222	97	45	120	115	155	13,5	1"1/2	1"1/4
A1H-2	A1H-2T	308	170	222	97	45	120	115	155	13,5	1"1/2	1"1/2
A2-1	A2-1T	315	178	247	97	45	127	115	155	14,2	2"	2"
A2-2	A2-2T	315	178	247	97	45	127	115	155	15,5	2"	2"
A2-2A	A2-2AT	315	178	247	97	45	127	115	155	15,7	2"	2"
A2-3	A2-3T	370	218	285	115	53	150	140	180	23,3	2"	2"
-	AG2-6CT	360	215	285	110	60	145	135	185	21,6	2"	2"
A2-4	A2-4T	370	218	285	115	53	150	140	180	24,3	2"	2"
AL2-10	-	365	195	240	90	70	130	130	180	18,2	2"	2"
AL2-11	AL2-11T	365	195	240	90	70	130	130	180	19,1	2"	2"
AL2-20	AL2-20T	370	215	280	110	48	105	160	200	22	2"	2"
AL2-21	-	370	215	280	110	48	105	160	200	24	2"	2"
-	AL2-21T	370	215	280	110	48	105	160	200	24	2"	2"
AL2-22	AL2-22T	410/ 370	215	280	110	48	105	160	200	32/26	2"	2"
A2-25SS	A2-25SST	365	208/ 193	253	120	74	173	140	180	14,4	2"	2"
A2-26SS	A2-26SST	378	208/ 193	253	120	74	173	140	180	15,7	2"	2"
-	A22-27SST	416	193	253	120	78	177	140	180	19,4	2"1/2	2"
-	A22-28SST	455	193	253	120	78	177	140	180	22,3	2"1/2	2"
A32-30	A32-30T	425/ 385	240	306	126	70	105	190	240	34,5/ 28,5	3"	2"
A32-31	A32-31T	445/ 425	240	306	126	70	105	190	240	38,7/ 33,2	3"	2"
-	A32-32T	445	240	306	126	70	105	190	240	38,7	3"	2"
A3-40	A3-40T	455	225	292	112	80	177	140	200	28,3	3"	3"
A3-41	A3-41T	455	225	292	112	80	177	140	200	31,5	3"	3"
-	A3-42T	455	225	292	112	80	177	140	200	31,6	3"	3"
A4-50	A4-50T	480	250	330	130	85	165	160	220	41,1	4"	4"
-	A4-51T	480	250	330	130	85	165	160	220	41,1	4"	4"

Note: in the boxes with two numbers, the first number refers to the single-phase version, the second number to the three-phase version

Not in scale

