

ARMSTRONG



Gold Series - Pump Less Volute Kit

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Legacy of reliability

Armstrong In-Line circulators are favoured by system designers and chiller/boiler manufacturers who prefer 3-piece construction for reliability, efficiency, and serviceability. Owing to our history of product innovation and a mandate for design compatibility, today's models are direct substitutes for all compatible circulators built over the last 50 years.



Upgrading circulators by others

Armstrong Gold Series - Pump Less Volute kits enable you to upgrade and renew circulators manufactured by others, to gain the benefits of Armstrong quality, service, and performance, along with these design innovations:

Universal SBA sealed bearing assemblies

Significantly reduce spare parts requirements.

"One-size-fits-all" bearing module

Allows repair of any model with only one module design.

Circular oil wick

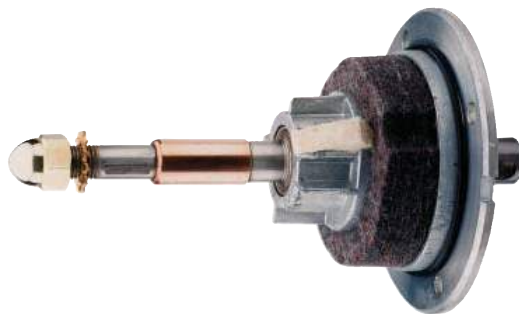
Provides superior lubrication for cooler running and longer life.

Sintered silicon carbide

Provides increase life expectancy for high temperature application.

Noryl non-ferrous impeller

Designed for both hydronic and potable water applications.



Cross reference chart

PLV KIT	MOTOR		CIRCULATOR MANUFACTURER/MODEL		
	HP	POWER	B&G	TACO PRO-FIT	ARMSTRONG
S25 LV	1/12	115 Vac, single phase	100	RPK-A-100	S25
H32 LV	1/6		HV or 2"	RPK-B-101	H32, S35
H41 LV	1/6		PR	RPK-C-100	H41
S45 LV	1/4		2 1/2 or LD3	RPK-C-101	S45 (2 1/2 or 3")
S46 LV	1/3		HD3	RPK-C-102	S46
H51 LV	1/4	115/230 Vac, single phase or 208-230/460 Vac, three phase	60-11 (604S)	RPK-D-102	H51, 1B
H52 LV	1/3		60-2	RPK-D-103	H52, 1 1/4B
H53 LV	1/2		60-13 (608S)	RPK-D-104/204	H53, 1 1/2B
H54 LV	3/4		PD37S, 60-14, 611T	RPK-D-101/201	H54, S57, 2B
S55 LV	1/2		PD35S	RPK-D-100/200	S55

Best practice solution - saves time and money

Traditionally, service providers had to order a complete circulator. To save time and reduce the risk of pipe alignment problems and leak development by breaking and making pipe connections, some would remove and discard the brand new volute (casing), so the remaining 'Pump - Less Volute' could be mated to the original casing.

With Armstrong Gold Series - Pump Less Volute kits, service contractors and building maintenance technicians can replace

circulators faster, reduce cost, and avoid waste. You get a complete Armstrong circulator already 'Less Volute', that is a direct substitute for the model to be replaced. Since the same moving parts are used for both cast iron and bronze circulators, only one kit model is required to service either type. This helps to further minimize spare parts inventory requirements for the building maintenance supervisor, and enables your Armstrong supplier to ensure the genuine replacement parts you need are readily available.

Gold series – pump less volute Kit

Raypak TIP boiler header pumps

Throughout North America, the large installed base of original pumps may require frequent servicing as components wear out. Specific models of Armstrong Gold Series - Pump Less Volute kits are direct replacements for original pumps including pre-trimmed impellers for an exact performance match. Replacing all moving parts with one kit will provide years of service-free low-cost operation.

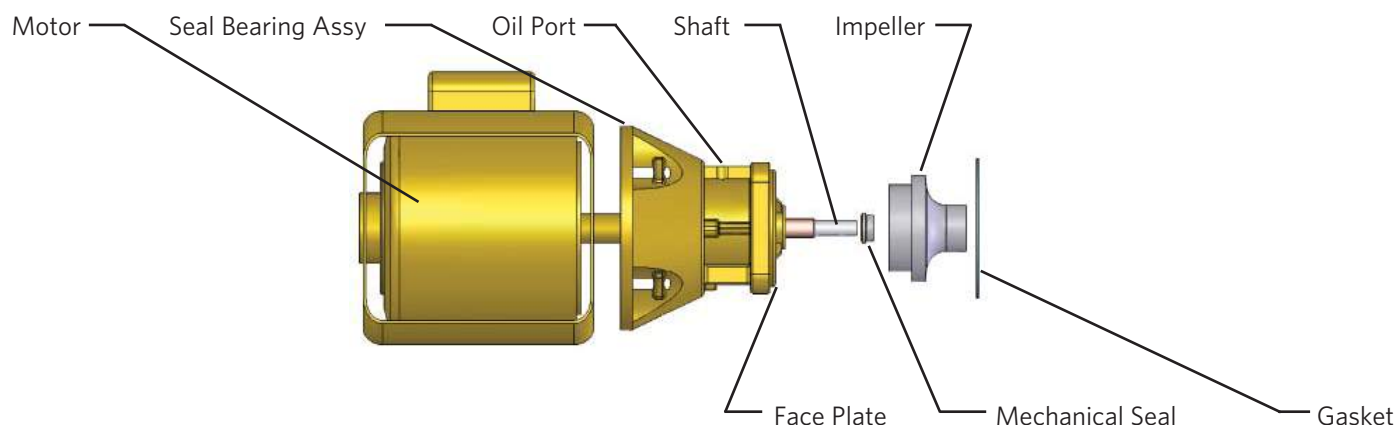
PLV MODEL	BASE CIRCULATOR	MOTOR			IMPELLER TRIM
		HP	VOLTAGE	RPM	
RAYPAK 1	2B 1050 AB-LV	⅓	115 Vac, 1 phase	1750	4⅜"
RAYPAK 2	2B 1050 AB-LV	½	115/208-230 Vac, 1 phase	1750	4½"
RAYPAK 3	2B 1050 AB-LV	¾	115/208-230 Vac, 1 phase	1750	4½"
RAYPAK 4	2B 1050 AB-LV	½	115/208-230 Vac, 1 phase	1750	No impeller

Design information

MAXIMUM OPERATING TEMPERATURE	225°F (107°C)
MAXIMUM WORKING PRESSURE	125 psi (862 kPa)

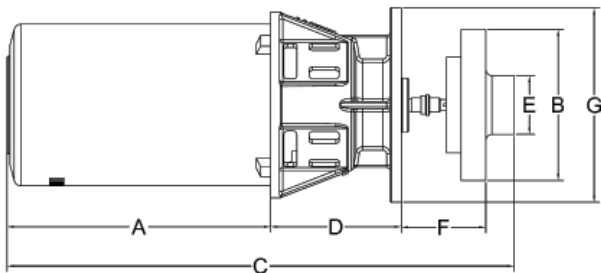
Materials of construction

BODY	Gold painted steel, radially split for servicing ease
MOTOR	Maintenance-free, permanently lubricated
SEAL BEARING ASSEMBLY	Armstrong sba with universal bearing module - Stainless steel face plate - Alloy steel shaft (heat treated for long life) - Copper sleeve - Circular oil wick
COUPLER	4-spring or flexible coupler
SHAFT	Alloy steel (heat treated for long life), copper sleeve
MECHANICAL SEAL	Carbon/silicon carbide, stainless steel trim, Viton seal
IMPELLER	Noryl (registered trade mark of GE Plastics)

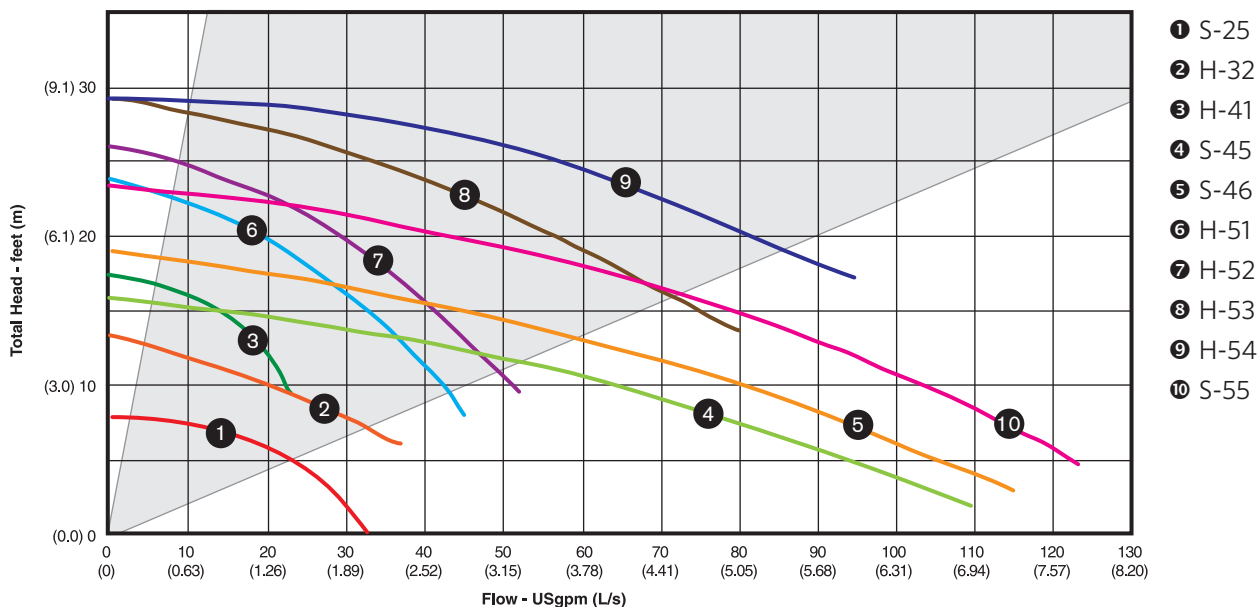


Dimensions

PLV KIT	A	B	C	D	E	F	G
S25 LV	6½ (155)	2¾ (70)	12⅝ (321)	3⅞ (98)	1¼ (31)	1¼ (33)	3⅞ (86)
H32 LV	7½ (190)	3⅞ (86)	13⅞ (354)	3⅞ (84)	1⅜ (36)	1¾ (44)	4¼ (107)
H41 LV	7½ (190)	4¼ (108)	14⅞ (358)	3⅞ (84)	1¼ (32)	1¾ (44)	5⅜ (135)
S45 LV	7½ (190)	4¼ (108)	14¼ (360)	3⅞ (84)	2 (50)	1¾ (45)	5⅜ (135)
S46 LV	7½ (190)	4¼ (108)	14¼ (360)	3⅞ (84)	2 (50)	1¾ (45)	5⅜ (135)
H51 LV	7½ (190)	5¼ (135)	15⅝ (396)	4⅞ (117)	2⅞ (53)	1¾ (43)	6⅞ (173)
H52 LV	7½ (190)	5¼ (135)	15⅝ (396)	4⅞ (117)	2⅞ (53)	1¾ (43)	6⅞ (173)
H53 LV	5⅝ (130)	5¼ (135)	13⅞ (333)	4⅞ (117)	2⅞ (53)	1¾ (43)	6⅞ (173)
H54 LV	10⅜ (235)	5¼ (135)	17¾ (452)	4⅞ (117)	2⅞ (53)	2⅞ (54)	6⅞ (173)
S55 LV	8¼ (210)	5¼ (135)	16¾ (426)	4⅞ (117)	2⅞ (53)	2⅞ (54)	6⅞ (173)
Raypak 1	7½ (190)	4⅞ (112)	14¾ (375)	4⅞ (117)	2⅞ (53)	2⅞ (54)	6⅞ (173)
Raypak 2	9⅞ (251)	4½ (115)	17¼ (439)	4⅞ (117)	2⅞ (53)	2⅞ (54)	6⅞ (173)
Raypak 3	10⅜ (235)	4½ (115)	17¾ (452)	4⅞ (117)	2⅞ (53)	2⅞ (54)	6⅞ (173)
Raypak 4	9¼ (235)	N/A	N/A	4⅞ (117)	N/A	N/A	N/A



Performance chart



S. A. ARMSTRONG LIMITED
 23 Bertrand Avenue
 Toronto, Ontario
 Canada, M1L 2P3
T 416 755 2291
F 416 759 9101

ARMSTRONG PUMPS INC.
 93 East Avenue
 North Tonawanda, New York
 U.S.A., 14120-6594
T 716 693 8813
F 716 693 8970

ARMSTRONG INTEGRATED LIMITED
 Wenlock Way
 Manchester
 United Kingdom, M12 5JL
T +44 (0) 8444 145 145
F +44 (0) 8444 145 146



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