

ROTOM

**YOUR SINGLE SOURCE FOR
QUALITY MOTORS**



***CIRCULATOR
PUMPS
AND
ACCESSORIES***

TOOR

ALLTEMP PRODUCTS COMPANY LIMITED
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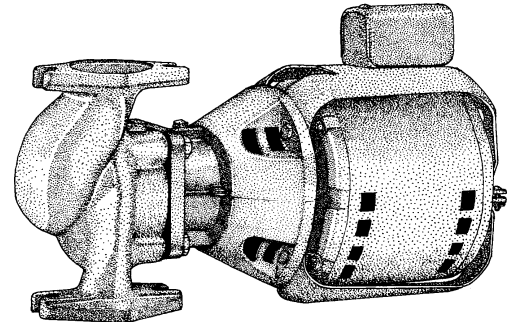


Standard "Three Part" Circulator Pumps

Iron Body

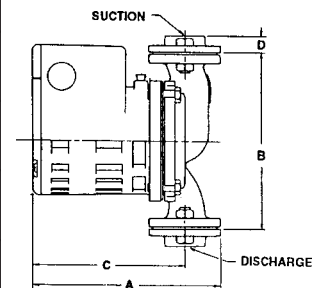
TYPICAL APPLICATIONS: Hydronic Heating & Cooling, Potable Water Systems, Multi Stage Zoning, General Industrial Service

- FEATURES:**
- Flexible spring noise dampening coupler adds to quiet operation
 - Long bronze sleeve bearings maintain shaft alignment and longer life
 - Precision ground pump shaft, oversized to provide large bearing surfaces ensuring long seal and bearing life
 - Centrifugal impeller prevents air build-up at seal faces to assure long life
 - Close tolerances minimize water seepage and maximize efficiency
 - Three part pump assembly and two part motor bracket make servicing system quick and easy



Single Phase • 115 Volt

Part #	HP	Flange Size Inches NPT	A (Inches)	B (Inches)	C (Inches)	D (Inches)	Impeller	Replaces
RP260U	1/20	3/4 1 and 1 1/4 1 1/2	6 15/16	6 3/8	5 5/8	9/16 3/4 15/16	Polypropylene	LR20BF, 106506
RP100B	1/12	3/4 1 and 1 1/4 1 1/2	14 7/8	6 3/8	12 3/4	9/16 3/4 15/16	Bronze	100BI, 106190
RP100U	1/12	3/4 1 and 1 1/4 1 1/2	14 7/8	6 3/8	12 3/4	9/16 3/4 15/16	Non-Ferrous	100NFI, 106189
RP230B	1/6	3/4 1 and 1 1/4 1 1/2	15 1/4	8 1/2	12 3/4	9/16 3/4 15/16	Bronze	PRBI, 102207
RP230C	1/6	3/4 1 and 1 1/4 1 1/2	15 1/4	8 1/2	12 3/4	9/16 3/4 15/16	Chrome Plated Steel (C.P.S.)	PR, 102206
RP220B	1/6	1 1 1/4 and 1 1/2	15 3/8	8 1/2	13	5/8 3/4	Bronze	HVBI, 102230
RP220U	1/6	1 1 1/4 and 1 1/2	15 3/8	8 1/2	13	5/8 3/4	Non-Ferrous	HVNFI, 102210
RP200B RP200U	1/6	2	16 5/8	8 1/2	14	13/16	Bronze Non-Ferrous	2BI, 102232 2NFI, 102214
RP250B RP250C	1/4	2 1/2	17 1/4	10	14	1 1/16	Bronze C.P.S.	2 1/2 BI, 102219 2 1/2, 102218
RP300B RP300C	1/4	3	17 1/4	10	14	1 1/16	Bronze C.P.S.	LD3BI, 102223 LD3, 102222
RP325B RP325C	1/3	3	17 1/2	10	14 1/4	1 1/16	Bronze C.P.S.	HD3BI, 102227 HD3, 102226



NOTES:

1. Pumps up to, but not including, 2" flange size come without flanges. Flanges must be ordered separately. ALL others come with flanges.

2. All single phase, 115V motors have built in thermal overload protection.

Single Phase • 115/230 Volt

RP350B RP350C	1/2	3	20 1/4	12	16 7/8	1 1/16	Bronze C.P.S.	PD35SBI, 105090 PD35S, 105089
RP370B RP370C	3/4	3	20 1/4	12	16 7/8	1 1/16	Bronze C.P.S.	PD37SBI, 105098 PD37S, 105097
RP380B RP380C	1	3	24	14 1/2	19 1/2	1 1/4	Bronze C.P.S.	PD38SBI, 105122 PD38S, 105121
RP400B RP400C	1 1/2	3	24 5/8	14 1/2	20 1/8	1 1/4	Bronze C.P.S.	PD40SBI, 105152 PD40S, 105151

Three Phase • 208/230/460 Volt or 575 Volt*

208/230/460V Part No.	* for 575 Volt Part No. replace B3 or C3 with B5 or C5							
RP350B3 RP350C3	1/2	3	20 1/4	12	16 7/8	1 1/16	Bronze C.P.S.	105094, PD35TBI, 1050945, PD35T5BI 105093, PD35T, 1050935, PD35T5
RP370B3 RP370C3	3/4	3	20 1/4	12	16 7/8	1 1/16	Bronze C.P.S.	105102, PD37TBI, 1051025, PD37T5BI 105101, PD37T, 1051015, PD37T5
RP380B3 RP380C3	1	3	24 1/4	14 1/2	19 3/4	1 1/4	Bronze C.P.S.	105134, PD38TBI, 1051345, PD38T5BI 105133, PD38T, 1051335, PD38T5
RP400B3 RP400C3	1 1/2	3	25 1/8	14 1/2	20 5/8	1 1/4	Bronze C.P.S.	105138, PD40TBI, 1051385, PD40T5BI 105137, PD40T, 1051375, PD40T5

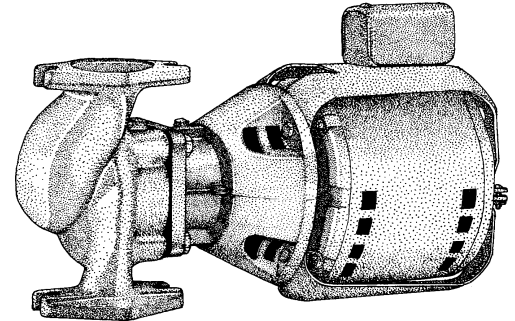


Standard "Three Part" Circulator Pumps

Bronze Body

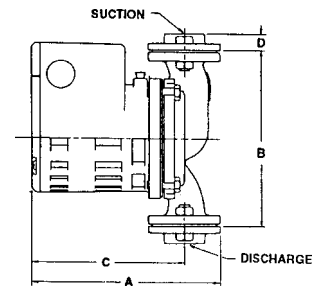
TYPICAL APPLICATIONS: Hydronic Heating & Cooling, Potable Water Systems, Multi Stage Zoning, General Industrial Service

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 - Three part pump assembly and two part motor bracket make servicing system quick and easy



Single Phase • 115 Volt

Part #	HP	Flange Size Inches NPT	A (Inches)	B (Inches)	C (Inches)	D (Inches)	Impeller	Replaces
RPB255U	1/12	3/4 1 and 1 1/4 1 1/2	7 15/16	6 3/8	6 5/8	9/16 3/4 15/16	Polypropylene	LR15B, 106513
RPB100B	1/12	3/4 1 and 1 1/4 1 1/2	14 7/8	6 3/8	12 3/4	9/16 3/4 15/16	Bronze	100AB, 106192
RPB100U	1/12	3/4 1 and 1 1/4 1 1/2	14 7/8	6 3/8	12 3/4	9/16 3/4 15/16	Non-Ferrous	100BNFI, 106197
RPB230B	1/6	3/4 1 and 1 1/4 1 1/2	15 1/4	8 1/2	12 3/4	9/16 3/4 15/16	Bronze	PRAB, 102208
RPB220B	1/6	1 1 1/4 and 1 1/2	15 3/8	8 1/2	13	5/8 3/4	Bronze	HVAB, 102231
RPB220U	1/6	1 1 1/4 and 1 1/2	15 3/8	8 1/2	13	5/8 3/4	Non-Ferrous	HVBNFI, 102213
RPB200B RPB200U	1/6	2	16 5/8	8 1/2	14	13/16	Bronze Non-Ferrous	2AB, 102233 2BNFI, 102217
RPB250B	1/4	2 1/2	17 1/4	10	14	1 1/16	Bronze	2 1/2 AB, 102220
RPB300B	1/4	3	17 1/4	10	14	1 1/16	Bronze	LD3AB, 102224
RPB325B	1/3	3	17 1/2	10	14 1/4	1 1/16	Bronze	HD3AB, 102228



NOTES:

1. Pumps up to, but not including, 2" flange size come without flanges. Flanges must be ordered separately. ALL others come with flanges.
2. All single phase, 115V motors have built in thermal overload protection.

Single Phase • 115/230 Volt

RPB350B	1/2	3	20 1/4	12	16 7/8	1 1/16	Bronze	PDB35S, 105092
RPB370B	3/4	3	20 1/4	12	16 7/8	1 1/16	Bronze	PDB37S, 105100
RPB380B	1	3	24	14 1/2	19 1/2	1 1/4	Bronze	PDB38S, 105123
RPB400B	1 1/2	3	24 5/8	14 1/2	20 1/8	1 1/4	Bronze	PDB40S, 105153

Three Phase • 208/230/460 Volt or 575 Volt*

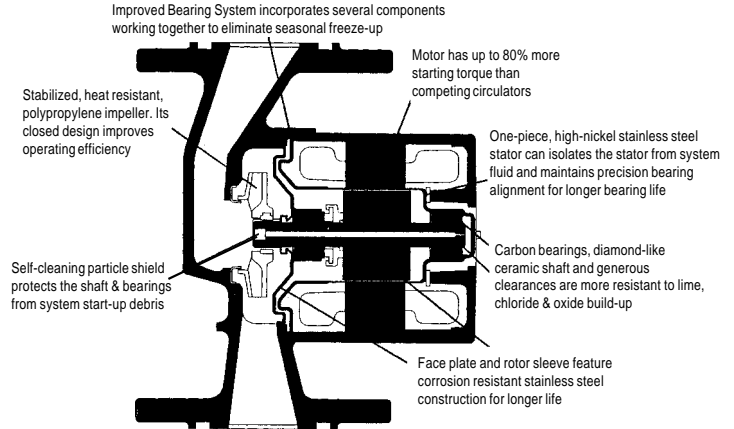
208/230/460V Part No.	* for 575 Volt Part No. replace B3 with B5							
RPB350B3	1/2	3	20 1/4	12	16 7/8	1 1/16	Bronze	105096, PDB35T, 1050965, PDB35T5
RPB370B3	3/4	3	20 1/4	12	16 7/8	1 1/16	Bronze	105104, PDB37T, 1051045, PDB37T5
RPB380B3	1	3	24 1/4	14 1/2	19 3/4	1 1/4	Bronze	105135, PDB38T, 1051355, PDB38T5
RPB400B3	1 1/2	3	25 1/8	14 1/2	20 5/8	1 1/4	Bronze	105139, PDB40T, 1051395, PDB40T5



"Wet Rotor" Circulator Pumps

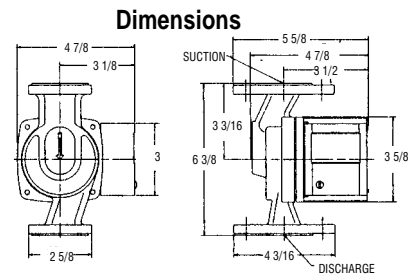
Rugged & Dependable!

- Higher starting torque motor eliminates seizing due to particle build up in off season
- Maintenance free
- Compact - fast, easy installation



Iron Body

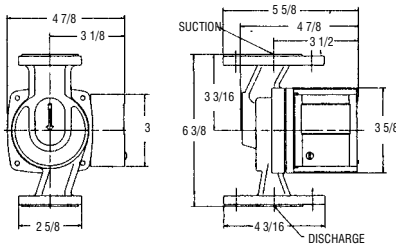
Part #	HP	Impeller	Replaces
RP265W	1/25	Polypropylene	103251, NRF22



Bronze Body

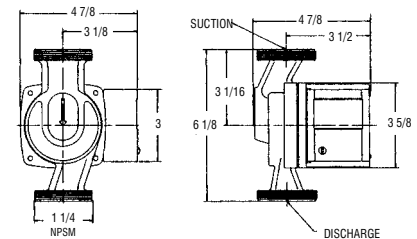
100% Lead Free

Part #	HP	Connections (inches)	Impeller	Replaces
RPB265W	1/25	Flange 1/2, 1, 1 1/4, 1 1/2	Polypropylene	103252, NBF22
RPB270W	1/25	Union 3/4 NPT 1/2 and 3/4 Sweat	Polypropylene	103255, NBF22U
RPB275W	1/25	Flange 1/2, 1, 1 1/4, 1 1/2	Polypropylene	103256, NBF12
RPB280W	1/25	Union 3/4 NPT 1/2 and 3/4 Sweat	Polypropylene	103254, NBF12U



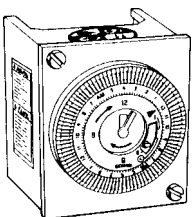
RPB265W
RPB275W

RPB270W
RPB280W



Automatic Timer Kits & Thermostats

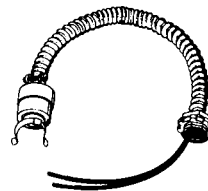
• for use with Bronze Body, Wet Rotor Pumps. Part No. RPB265W, RPB270W, RPB275W and RPB280W



AT100 Replaces 113210, TC1

Automatic Timer Kit

To increase the overall efficiency of a hot water recirculation system, the timer control is programmable to turn the circulator ON and OFF automatically at preset times. This permits the user to have the pump circulate hot water only during those times when high usage can be expected throughout the day.

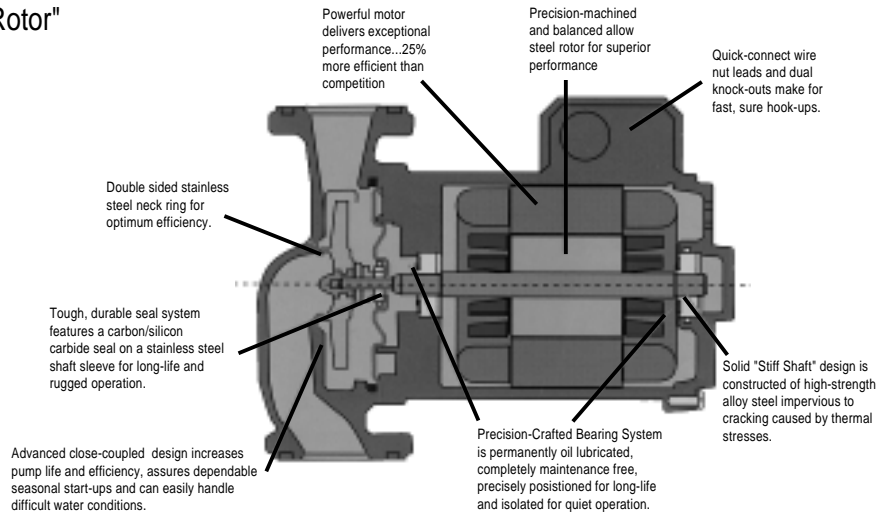
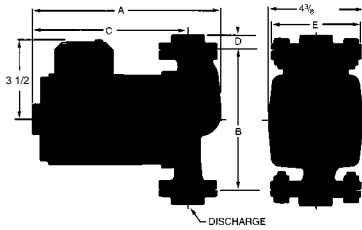


AQ150-1/2" Replaces 113220, AQ1/2
AQ375-3/4" Replaces 113221, AQ3/4

Thermostats

Designed to thermostatically turn circulator ON and OFF. It will switch the pump OFF at 120°F (48.9°C) and ON at 100°F (37.8°C). The thermostats are available in separate models that will sense the temperature for either 1/2" or 3/4" copper pipe.

- Superior Performance Over Standard "Wet Rotor" Type Pumps
- Wide Range of Applications Handles Water Temperatures of 0 to 225°C
- Maintenance Free



Iron Body

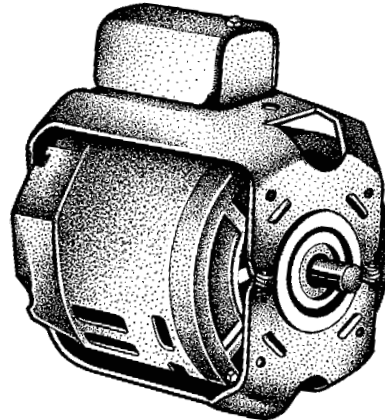
115V Part #	230V Part #	HP	Flange Size Inches NPT	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	Impeller	Replaces
RP520	RP525	1/12	3/4 1 1 1/4 1 1/2	8 5/8	6 3/8	7 1/8	9/16 3/4 3/4 15/16	4 3/16	Noryl	PL30 PL30-230V IBL012 IBL014
RP500	RP505	1/6	3/4 1 1 1/4 1 1/2	8 5/8	6 3/8	7 1/8	9/16 3/4 3/4 15/16	4 3/16	Noryl	PL36 PL36-230V IBL001 IBL006
RP510	RP515	1/6	1 1 1/4 1 1/2	9 1/8	8 1/2	7 1/4	5/8 3/4 3/4	4 5/8	Noryl	PL45 PL45-230V IBL002 IBL007
RP530	RP535	1/6	1 1 1/4 1 1/2	9 1/8	8 1/2	7 1/4	5/8 3/4 3/4	4 5/8	Noryl	PL50 PL50-230V IBL016 IBL018

Bronze Body

115V Part #	230V Part #	HP	Flange Size Inches NPT	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	Impeller	Replaces
RPB520	RPB525	1/12	3/4 1 1 1/4 1 1/2	8 5/8	6 3/8	7 1/8	9/16 3/4 3/4 15/16	4 3/16	Noryl	PL30B PL30B-230V IBL013 IBL015
RPB500	RPB505	1/6	3/4 1 1 1/4 1 1/2	8 5/8	6 3/8	7 1/8	9/16 3/4 3/4 15/16	4 3/16	Noryl	PL36B PL36B-230V IBL003 IBL008
RPB510	RPB515	1/6	1 1 1/4 1 1/2	9 1/8	8 1/2	7 1/4	5/8 3/4 3/4	4 5/8	Noryl	PL45B PL45B-230V IBL004 IBL009
RPB530	RPB535	1/6	1 1 1/4 1 1/2	9 1/8	8 1/2	7 1/4	5/8 3/4 3/4	4 5/8	Noryl	PL50B PL50B-230V IBL017 IBL019

Motors

- Including Mounting Brackets
- Used on Cast Iron and Bronze "Three Part" Pumps

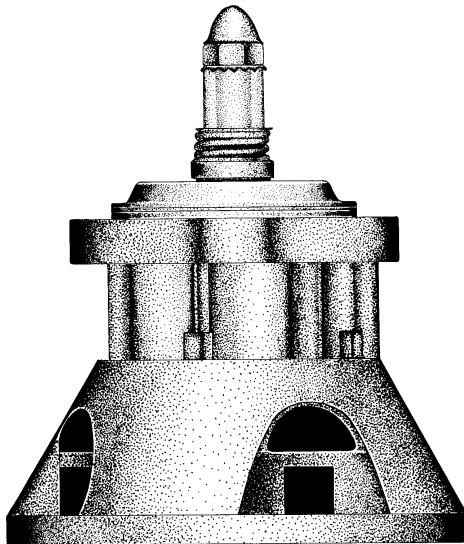


Part #	HP	Voltage	Used On	Replaces
M100	1/12	115V	RP100 Series	111034
M140	1/6	115V	RP230 Series	111031
M120		115V	RP200 and RP220 Series	111061
M160	1/4	115V	RP250 and RP300 Series	111040
M180	1/3	115V	RP325 Series	111042
M350	1/2	115/230V	RP350 Series	111044
M353		208/230/460V	RP350 Series	111046
M355		575V	RP350 Series	111046-5
M370	3/4	115/230V	RP370 Series	111047
M373		208/230/460V	RP370 Series	111049
M375		575V	RP370 Series	111049-5
M380	1	115/230V	RP380 Series	111050
M383		208/230/460V	RP380 Series	169090
M385		575V	RP380 Series	169090-5
M390	1 1/2	115/230V	RP400 Series	169095
M393		208/230/460V	RP400 Series	169092
M395		575V	RP400 Series	169092-5

Motor Mounting Rings

Part #	Replaces	Used On
MM400	118228	M160, M180, M350, M353, M355, M370, M373, M375
MM410	118223	M100, M120, M140

Bearing Assemblies



Bronze

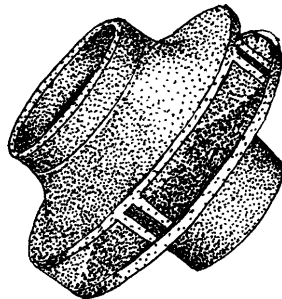
Part #	Brg Assy Model No.	Replaces	Used On
BA110	#2	189034	RPB100 Series
BA255	#2	189122	5" RPB200, RPB220 Series (NEW)
BA275	#3	189103	6" RPB200, RPB220 Series (OLD)
BA350	#5	186863	RP350, RP370 Series - Cast Iron & Bronze
BA395	#6	185262	RPB380, RPB400 Series

Cast Iron

Part #	Brg Assy Model No.	Replaces	Used On
BA100	#2	118844	RP100 Series
BA250	#2	189120	5" RP200, RP220 Series (NEW)
BA260	#3	189100	6" RP220 Series with Non-ferrous Impeller (OLD)
BA265	#3	189101	6" RP200, RP220 Series with Steel Impeller (OLD)
BA270	#3	189102	6" RP200, RP220 Series with Bronze Impeller (OLD)
BA280*	#4	189105	RP230, RP250, RP300, RP325 Series - Cast Iron & Bronze
BA350	#5	186863	RP350, RP390 Series - Cast Iron & Bronze
BA390	#6	185260	RP380, RP400 Series

*Stainless Steel Plated with Bronze Nut. Can be used in "All Bronze" Application

Impellers



Non-Ferrous

Used on Cast Iron & Bronze Pumps

Part #	Replaces	Used On
IM100	189132	RP100 Series
IM250	189128	RP200, RP220 Series
IM255	P15627	RPB255, RP260 Series

Bronze

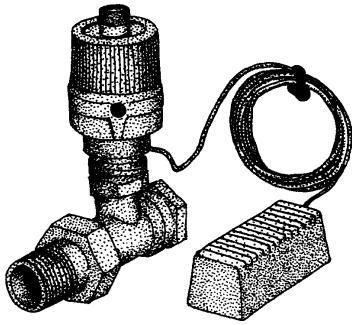
Used on Cast Iron & Bronze Pumps

Part #	Replaces	Used On
IM100B	118431	RP100 Series
IM230B	118612	RP230 Series
IM250B	P07792	RP200, RP220 Series 5" (NEW)
IM252B	118436	RP200, RP220 Series 6" (OLD)
IM280B	118440	RP250, RP300 Series
IM325B	118439	RP325 Series
IM350B	118627	RP350 Series
IM370B	118626	RP370 Series
IM390B	P08689	RP390 Series
IM400B	118453	RP400 Series

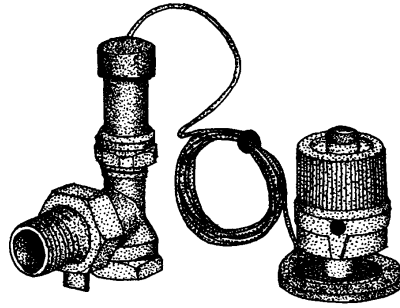
Chrome Plated Steel

Used on Cast Iron Pumps Only

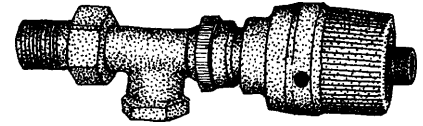
Part #	Replaces	Used On
IM230C	118830	RP230C
IM250C	118668	RP200, RP220 Series (OLD)
IM280C	118676	RP250C, RP300C
IM325C	118675	RP325C
IM350C	118630	RP350C
IM370C	118629	RP370C
IM380C	P08709	RP380C
IM400C	118452	RP400C



CV815 Control Valve shown with CV790 Thermostatic Actuator with Remote Sensing Bulb

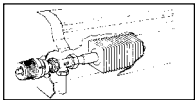


CV840 Control Valve shown with CV800 Remote Thermostat & Sensing Element with Remote Actuator

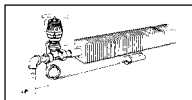


CV830 Control Valve shown with CV785 Self-Contained Thermostat, Sensing Element & Actuator

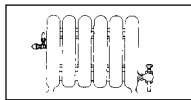
TYPICAL APPLICATIONS



Baseboard



Convactor



Cast iron steam radiator with pipe steam valve, self-contained actuator and automatic air vent.

Tailpieces

Part #	Size (inches)	Type	Replaces
CV855	1/2	NPT	109247, TM50T
CV860	3/4		109248, TM75T
CV865	1		109249, TM100T
CV870	1/2	SWEAT	109251, TM50S
CV875	3/4		109252, TM75S
CV880	1		109253, TM100S

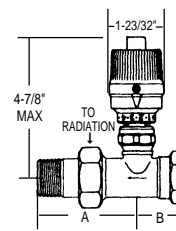
Valve Bodies

Part #	Size NPT	Dimensions (inches)			Type	Replaces
		A		B		
		With NPT Tailpiece	With Sweat Tailpiece			
Valves for Hydronic and Low Pressure 2-Pipe Steam Systems ^{1 2}						
CV815	1/2	2 5/16	1 3/4	15/16	Angle	109235, TM12-50
CV820	3/4	2 11/16	2 3/16	1 1/8		109236, TM12-75
CV825	1	3	2 11/16	1 15/32		109237, TM12-100
CV840	1/2	2 5/16	1 11/16	1 1/4	Straight	109239, TM21-50
CV845	3/4	2 11/16	2 1/16	1 3/8		109240, TM21-75
CV850	1	2 7/8	2 9/16	1 5/8		109241, TM21-100
CV830	1/2	2 5/16	1 3/4	15/16	Angle	109243, TM42-50
CV835	3/4	2 5/8	2 1/8	1 3/32		109244, TM42-75

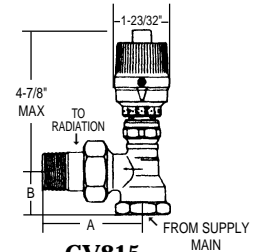
1. Valve body & Tailpiece must be ordered separately.

2. Valve inlet connections are NPT.

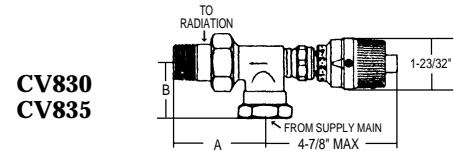
Valve uses, and is furnished complete equipped with the NPT tailpiece.



CV840
CV845
CV850

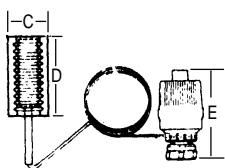


CV815
CV820
CV825



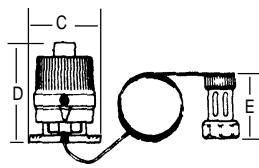
CV830
CV835

Actuators



CV790
CV795

Thermostatic Actuator with Remote Sensing Bulb



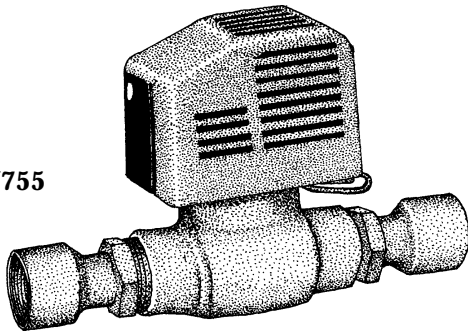
CV800
CV805

Remote Thermostat & Sensing Element with Remote Actuator

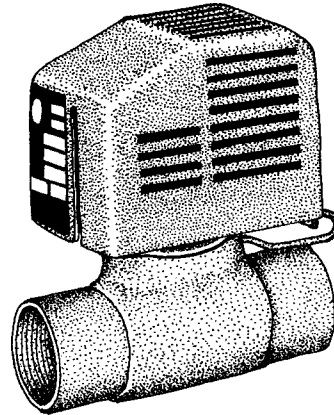
Part #	Dimensions (inches)				Replaces
	C	D	E	F	
CV785	1 23/32	NA	3 9/16*	--	109301, TM51
CV790	1 11/32	2 23/32	3 5/16*	1 5/16	109302, TM61
CV795	1 11/32	2 23/32	3 5/16*	1 5/16	109303, TM61-5M
CV800	2 3/8	2 1/4	2 1/4	--	109203, TM9
CV805	2 3/8	2 1/4	2 1/4	--	109205, TM9-5M
CV810	Tamper Proof Guard				109306, TM501

*Maximum

CV755

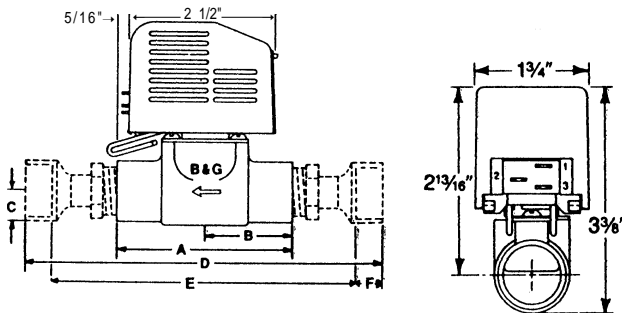
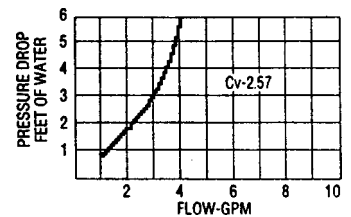


CV760



- Silent operating, heat motor actuated value
- Intermittent energizing of the heat motor means power saving
- Continuous or cycling operation of the pump with one 24 Volt 50/60 Hz single phase 3 wire operator
- Double torsion sprint prevents water hammer and assures positive shut-off
- Compact, easy installation - solderless wiring connections
- Backseating design allows quick, easy seal gland replacement without draining system

Part #	Connection Size (inches)		Dimensions (inches)						Replaces
	Sweat	Flare	A	B	C	D	E	F	
CV755	3/4	--	3	1 1/2	--	--	--	--	CTS7524, 109017
CV760	--	1/2	2 5/8	1 5/16	3/8	5 3/8	4 3/8	1/2	
		3/4			1/2	6 1/4	4 3/4	3/4	
		1			5/8	7	5 3/16	29/32	



CV755

Dotted lines denote flare connectors

Maximum Conditions

Differential Shut Off Pressure: 35 psig
 Working Pressure: 125 psig
 Liquid Temperature: 240°F
 Ambient Temperature: 125°F

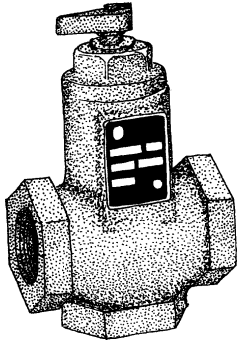
Electrical

Rating: 24V, 50/60Hz, 1Ø, 15VA AC
 Thermostat: 24V 2-wire with 0.6 amp heat anticipator setting
 Transformer: 115/24V (one 40 varated transformer is adequate for a maximum of 3 Zone Control Valves).

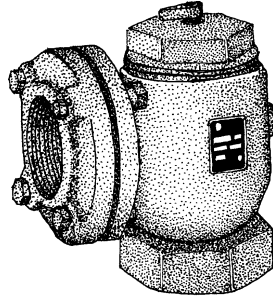
Accessories

Part #	Description	Replaces
CV765	24 Volt Operator	CT24, 109024
CV770	3/4" Valve Body with Sweat Connections	CT75S, 109051
CV775	Valve Body less Connections	CF100, 109053
CV780	"Modumate" Conversion Kit (Operator and Bonnet Assembly)	109054
PC900	Zone Pump Controller	ZPC-3, 109254

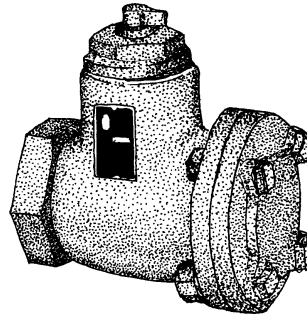
For preventing gravity flow in forced hot water systems and to permit summer-winter operation of indirect water heaters.



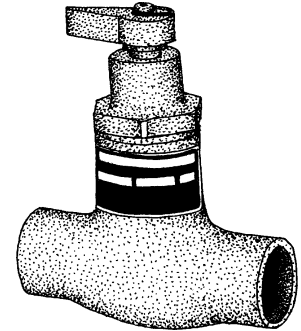
Straight-Angle



Angle

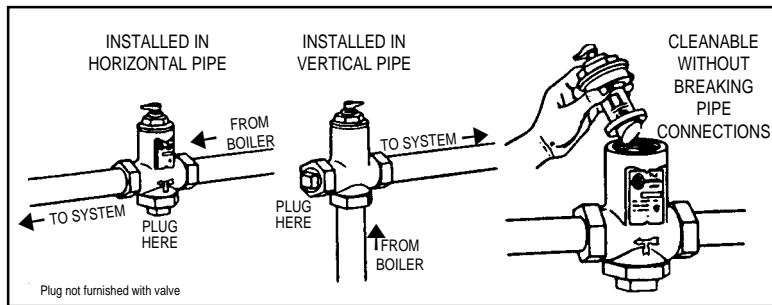


Straight



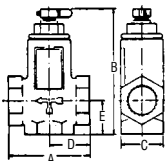
Bronze-Straight

HORIZONTAL OR VERTICAL PIPE INSTALLATION

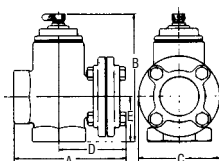


Allow 5" clearance for valves up to CV715 and 9" for others
Note: Bronze valve 5" also

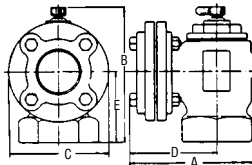
Part #	Dimensions (inches)					Connections
	A	B	C	D	E	
STRAIGHT-ANGLE PATTERN						
CV700	3 1/4	4 19/32	1 1/2	1 5/8	1 3/8	SCREWED
CV705	3 1/2	5 1/2	1 7/8	1 1/4	1 1/2	
CV710	4	6 1/2	2 1/4	1 31/32	1 7/8	
CV715	5	7 1/4	3	2 1/2	2 1/4	
CV720	6 7/8	7 1/2	4 5/8	4	2 5/8	FLANGED 1 END, SCREWED 2 ENDS
ANGLE PATTERN						
CV725	7 1/4	7 5/8	5 3/8	4/12	4 1/8	FLANGED 1 END, SCREWED 1 END
CV730	7 1/2	7 3/4	6		4 1/4	
STRAIGHT PATTERN						
CV740	9 5/16	8 11/16	5 3/8	4 3/4	2 11/16	FLANGED 1 END, SCREWED 1 END
CV745	9 15/16	9	6	5 1/4	3	
CV750	13	12 1/2	7 3/4	7	3 7/8	
CV735	3 1/4	3 7/8	1 7/16	1 5/8	23/32	



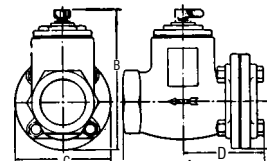
**CV700
CV705
CV710
CV715**



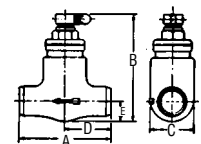
CV720



**CV725
CV730**



**CV740
CV745
CV750**



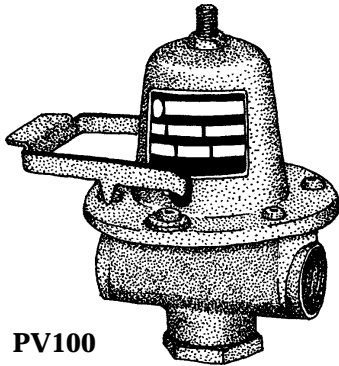
CV735



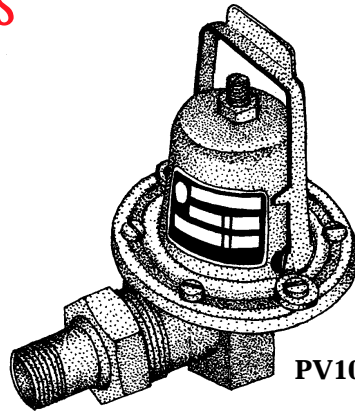
Reducing & Dual Unit Valves

Low inlet pressure check valve and removable strainers standard on all product. Certain indicated models include the "Fastfill" feature.

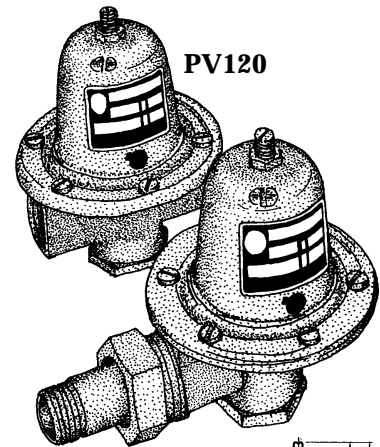
Pressure Reducing Valves



PV100



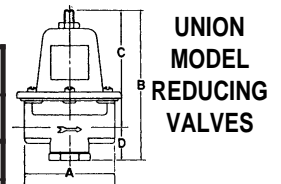
PV105



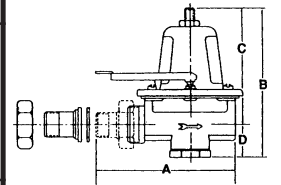
PV120

PV125

Part #	Body Material	Connection Size (inches)		Factory Setting (PSIG)	Adjustable Range (PSIG)	Dimensions (inches)			
						A	B	C	D
PV100	BRASS	1/2	NPT	12	10-25	3 11/16	4 13/16	3 11/16	1 1/8
PV110		3/4				3	4 31/32	3 21/32	1 5/16
PV105		1/2				4 31/32			
PV115*		1/2	NPT			3 1/16	4 13/16	3 11/16	1 1/8
PV120*		1/2				4 31/43			
PV125		1/2	NPT			3 1/16	4 31/32	3 21/32	1 5/16
PV130		3/4				3			



UNION MODEL REDUCING VALVES

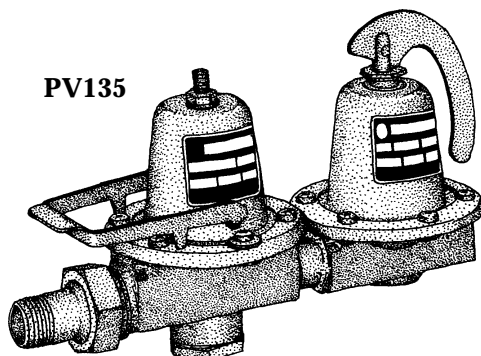


THREADED MODEL REDUCING VALVES

*Features "Fastfill"

Dual Unit Valves

Combination Reducing and Relief Valves

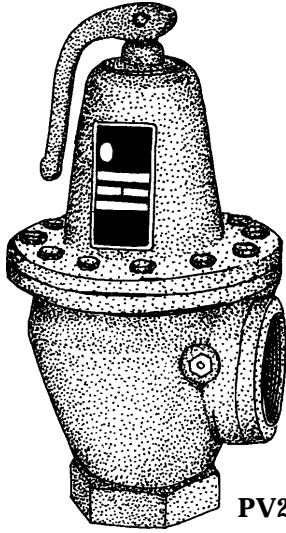


PV135

Part #	Component Valves	Body Material	Connection (Inches)		Dimensions (inches)	
			Boiler	Fill	Between Connection	Overall Height
PV135	Relief	Iron	1/2 NPT	1/2 NPT	6 7/16	5 3/8
PV100	Brass	1/2 Union				
PV140	Relief			Iron	1/2 NPT	
PV105	Brass	1/2 Union		8 5/8		
PV145*	Relief				Brass	1/2 NPT
PV115	Brass	1/2 Union		8 5/8		
PV150*	Relief				Brass	1/2 NPT
PV120	Brass	1/2 Union		8 5/8		
PV155*	Relief				Iron	1/2 NPT
PV115	Brass	1/2 Union		8 5/8		
PV160*	Relief		Iron		1/2 NPT	6 7/16
PV120	Brass	1/2 Union	8 5/8			

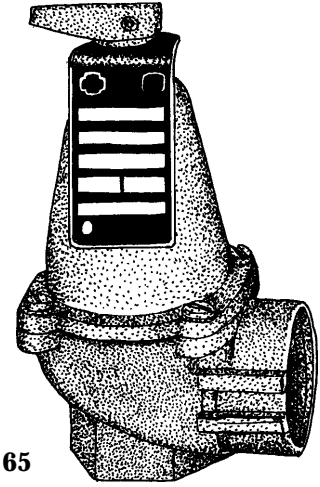
*Features "Fastfill"

Relief 30 PSI Standard, 20 to 40 PSI Adjustable Range
 Reducing 12 PSI Standard, 10 to 25 PSI Adjustable Range
 MAX OPERATING TEMPERATURE 225°
 MAX OPERATING PRESSURE 125 PSIG



PV240

Engineered in accordance with the requirements of Section IV of the Asme Boiler and Pressure Vessel Code for Heating Boilers. Capacities are certified by the National Board of Boiler and Pressure Vessel Inspectors.



PV165

Part #	Relief Setting (PSIG)	Capacity (BTU/Hr)	Body	NPT Connections Inlet	NPT Connections Outlet	A (Inches)	B (Inches)	C (Inches)	D (Inches)	E (Inches)	F (Inches)
PV165	15		Bronze	3/4	3/4	2 9/16	1 1/2	3/4	4 9/16	1 1/32	2 3/32
PV170	30	790,000									
PV175	36	900,000									
PV180	45	1,065,000									
PV185	50	1,160,000									
PV190	75	1,615,000									
PV195	100	2,075,000									
PV200	125	2,535,000									
PV205	30	1,170,000	Bronze	1	1	2 7/8	1 3/4	7/8	4 15/16	1 1/32	2 1/4
PV210	36	1,330,000									
PV215	45	1,575,000									
PV220	50	1,710,000									
PV225	75	2,385,000									
PV230	100	3,060,000									
PV235	125	3,735,000									
PV240	30	3,300,000	Iron	1 1/2	2	6	2 7/8	3 1/4	11	--	--
PV245	36	3,800,000									
PV250	45	4,500,000									
PV255	50	4,900,000									
PV260	30	4,100,000	Iron	2	2	6	2 7/8	3 1/4	11	--	--
PV265	36	4,600,000									
PV270	45	5,515,000									
PV275	50	5,990,000									

Automatic Air Vent

Designed to vent the accumulation of air wherever it can be trapped. Non-ferrous.

	<u>DIMENSIONS</u>	<u>CONNECTIONS</u>	<u>MAX OPER TEMP.</u>	<u>REPLACES</u>
AV320	4 3/4" x 2 1/4"	1/2" FPT - 3/4" MPT	240°F @ 150 PSI	113021, #87
AV310	3 3/16" x 1 1/2"	1/8" MPT	240°F @ 35 PSI	113020, #67
AV315	4 1/16" x 2 3/16"	1/8" FPT	240°F @ 75 PSI	113001, #7
AV330	Overflow Protection			



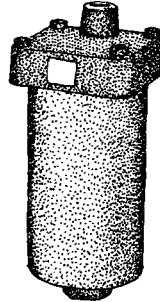
AV320

Air Charger

Offers a quick, easy way to recharge a waterlogged compression tank. 125 PSIG working pressure, 240°F max operating temp.



AC100 replaces 113041, DT2



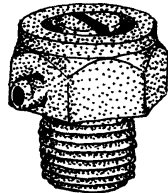
High Capacity Air Vent

A rugged High Capacity Air Vent designed to purge free air from liquid systems at operating pressures up to 150 PSIG. The Air Vent has a cast iron body and bonnet, with stainless steel, brass and EPDM internal components and is suitable for a maximum operating temp of 250°F. The Air Vent has a 3/4" NPT inlet and 3/8" NPT outlet.

AV 325 replaces 113076, 107A

Air Vent

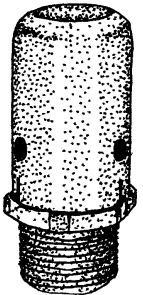
This vent is specially designed for the new types of radiators. An important feature is that it projects only slightly, being almost flush with the radiator. 150 PSIG working pressure, 250°F max operating temp.



AV 335 replaces 113055, 4V

Vacuum Breaker

Designed to protect closed vessels and piping systems against collapse when the induced vacuum exceeds design conditions. When used on steam heating systems, the vacuum breaker controls induced vacuum, permitting normal return of condensate to the boiler. Adjustable range 1/4" to 20" (mercury) vacuum - 150 PSIG max working pressure.



AV340 replaces 113075, #26

Readout Valve and Readout Probe

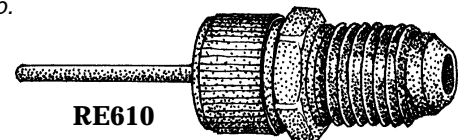
The valve is designed for use wherever pressure tappings are required to monitor flow or pressures. This Readout Valve is fitted with an EPT insert which incorporates a unique check valve feature designed to check flow when the Readout Valve is not being used to monitor flow. Use companion Readout Probes with the Readout Valve. 300 PSIG working pressure - 250°F max operating temp.



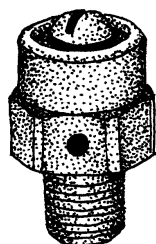
RE600

RE600 Valve replaces 113100, RV125A

RE610 Probe replaces 113102, RP250B



RE610



Automatic Hot Water Air Valves

30 PSIG working pressure, 225°F max operating temp.

AV300 1/8" NPT, with manual shutoff
replaces 127001, #17SR

AV305 1/8" NPT, without manual shutoff
replaces 113402, #17JR

Balancer

A device for instant visual balancing of hot or cold water flows. With balancer installed in each circuit zone, the entire system can be quickly balanced to meet original design calculations. 125 PSIG working pressure, 250°F max operating temp.

BL200 1-5 GPM replaces 127001, TB3/4"

BL210 2-10 GPM replaces 127002, TB1"



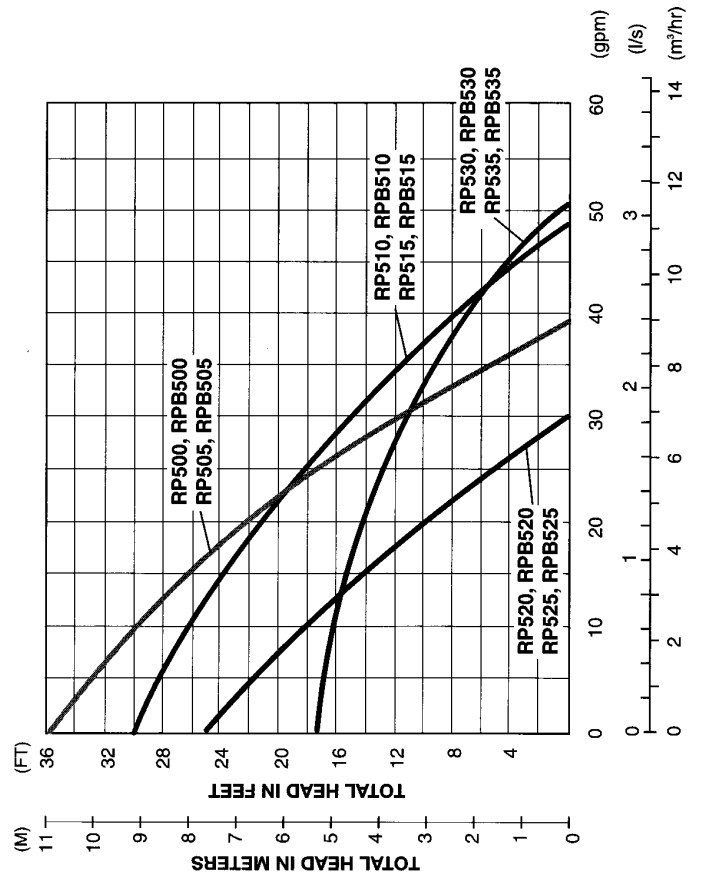
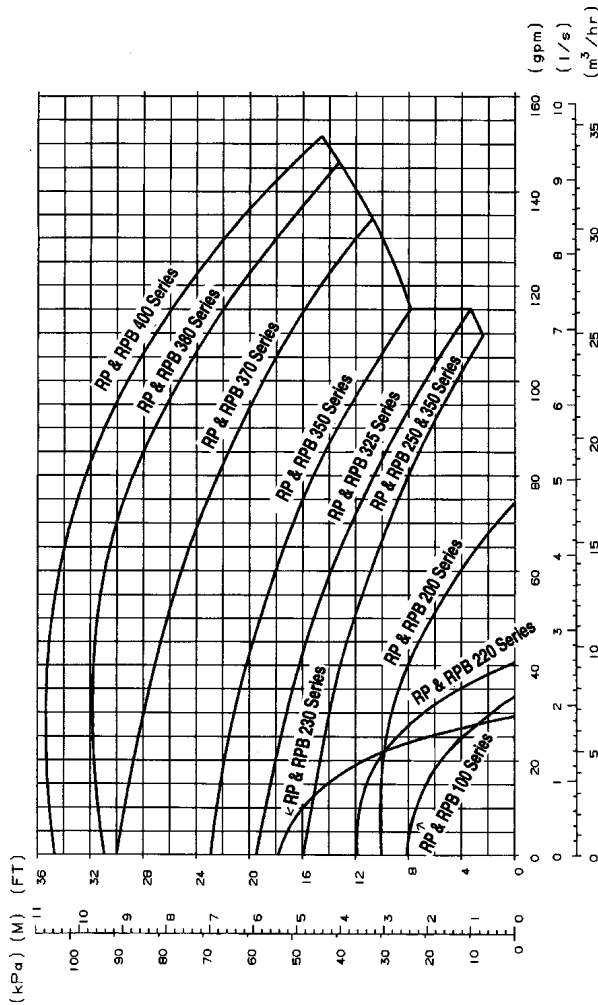
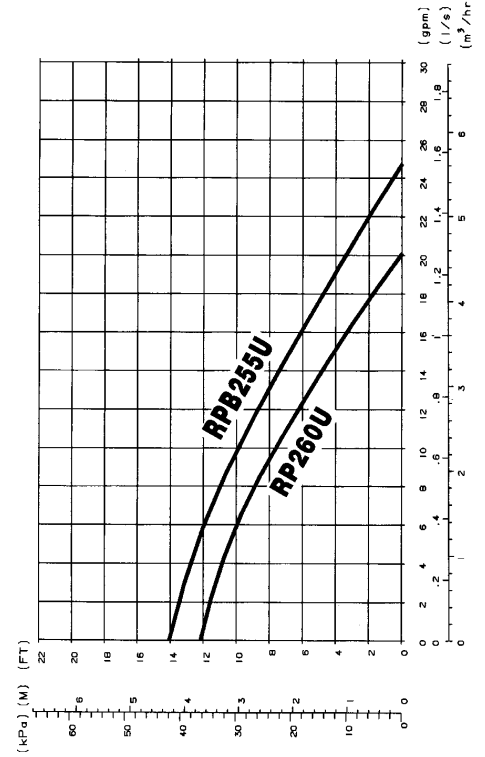
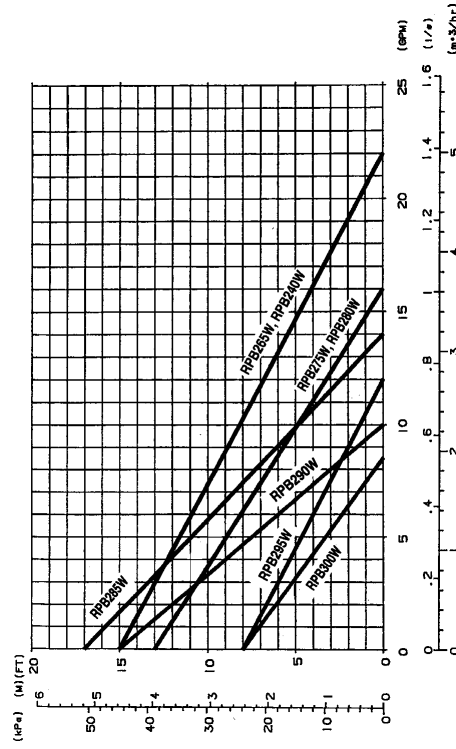
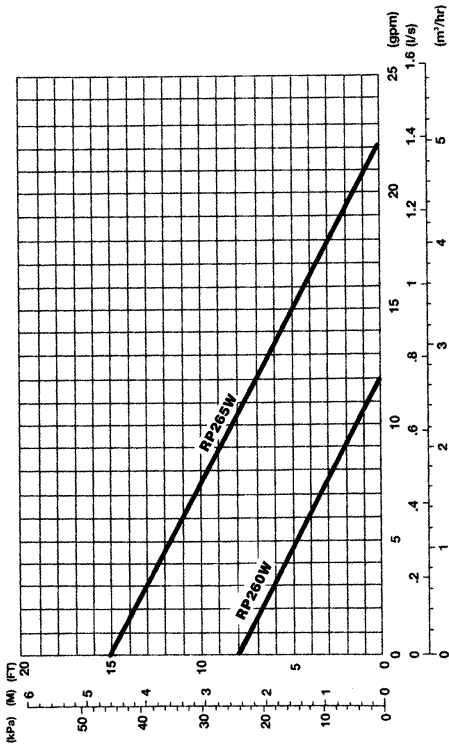
Flanges

Iron Body Part #	Bronze Body Part #	Size (inches)	Replaces	Used With
FL400	FL435	3/4	P00787 P00835	RP100, RP230, RP255, RP260, RP265, RP270, RP275, RP280 Series
FL405	FL440	1	P00792 P00836	
FL410	FL443	1 1/4	P03250 P00837	
FL415	FL445	1 1/2	P03430 P00838	
FL420	FL450	1	P00802 P00839	RP220 Series
FL425	FL455	1 1/4	P03300 P06660	
FL430	FL460	1 1/2	P03410 P06690	

Part #	Replaces	Description
AT125	P15210	Assembly Tool for RP260, RPB255
BB420	P15600	Gasket for RPB255
BG450	P57410	Gasket for RP350, RP370 Series
BG460	P57700	Gasket
BG470	P04890	Gasket for RP200, RP220 Series
BG480	P04080	Gasket for RP100 Series
BG490	P05800	Gasket for RP250, RP300, RP325 Series
BG500	P15691	Gasket for RP260
CA600	189142	Seal/cushion assembly for RP260, RPB255
CI300	P15684	Ceramic insert for RP260, RPB255
CS500	118473	Coupler for RP350, RP370 Series
CS510	118476	Coupler for 5/8" x 5/8" shafts
CS520	118709	Coupler for RP350, RP370 Series
CS530	189110	Coupler for RP100, RP200, RP220 Series
CS540	118723	Coupler for RP250, RP300, RP325 Series
CS850	P15683	Seat Cup for RP260, RPB255
FG325	P15692	Flange Gasket for RP260, RPB255
FP490	P15696	Fastener Package for RP260, RPB255
KS700	186499	#2 Seal Kit
KS710	118681	#7 Seal Kit
OT175	P15775	Oil Tube for RP260, RPB255
OW850	118395	Oil Wick Set for RP250 through RP400 Series
OW860	P81239	Oil Well Cover for PR220 Series



Circulator Pump Performance Charts





CIRCULATOR PUMP CROSS REFERENCE

CIRCULATOR PUMPS

MODEL	ARMSTRONG	B & G	ROTOM
S-25	174031-043	#100 106189	RP100
S-35	174033-043	#2 102214	RP200
S-45	174036-143	#LD3 102218	RP250
S-46	174037-143	#HD3 102226	RP325
H-32	174034-043	#HV 102210	RP220
H-41	174035-143	#1PR 102206	RP230
S-55	106284-132	#PD35 105089	RP350
S-57	106285-132	#PD37 105097	RP370
S-69	116531-132	#PD38 105121	RP380
ASTRO30	110121-400	#NRF22 103251	RP265W
ASTRO 30 BRONZE	110121-401	#NRB22 103252	RPB265W

MOTORS & BASE

PUMP	MODEL	H P	ARMSTRONG	B & G	ROTOM	MTG HOLE MEAS.
RP100	S25 115	1/12	805316-010	111034	T7-M100	3 5/16 X 3 5/16
RP220 RP200	S35 115	1/6	817025-005	111061	T7-M120	3 5/16 X 3 5/16
RP230	H41 115	1/6	817025-001	111031	T7-M140	3 9/16 X 3 9/16
RP250	S45 115	1/4	817025-007	111040	T7-M160	3 9/16 X 3 9/16
RP325	S46 115	1/3	817025-013	111042	T7-M180	3 9/16 X 3 9/16
RP350	S55 115/230	1/2	811757-001	111044	T7-M350	4 1/8 X 4 1/8
RP350C	S55 230/460	1/2	813011-083	111046	T7-M353	4 1/8 X 4 1/8
RP350C5	S55 575	1/2	811757-004	111046-5	T7-M355	4 1/8 X 4 1/8
RP370	S57 115/230	3/4	831010-062	111047	T7-M370	4 1/8 X 4 1/8
RP370C	S57 230/460	3/4	831012-083	111049	T7-M373	4 1/8 X 4 1/8
RP370C5	S57 575	3/4	811757-006	111049-5	T7-M375	4 1/8 X 4 1/8
RP380	S69 115/230	1	816676-062	111050	T7-M380	4 1/8 X 4 1/8
RP380C	S69 230/460	1	816676-069	169090	T7-M383	4 1/8 X 4 1/8
RP380C5	S69 575	1	811757-009	169090-5	T7-M385	4 1/8 X 4 1/8
RP400	S69 115/230	1.5	816678-069	169095	T7-M390	4 1/8 X 4 1/8
RP400C	S69 230/460	1.5	816678-062	169092	T7-M393	4 1/8 X 4 1/8
RP400C5	S69 575	1.5	811757-011	169092-5	T7-M395	4 1/8 X 4 1/8

SEAL BEARING ASSY.

MODEL	ARMSTRONG	B & G	ROTOM	MTG HOLE MEAS.
#2	816019-002	#118844	T7-BA100	3 5/16 X 3 5/16
#3	816549-091	#189100	T7-BA260	3 9/16 X 3 9/16
#4	816027-002/816962-091	#189105	T7-BA280	3 9/16 X 3 9/16
#5	816032-000	#186863	T7-BA350	4 1/8 X 4 1/8
#6	816366-041	#185260	T7-BA390 C1	4 1/8 X 4 1/8

IMPELLERS

PUMP	MODEL	MATERIAL	ARMSTRONG	B & G	ROTOM
RP100	S-25	NFI	812961-111	#189132	IM100 NFI
RP100B	S-25	BRONZE	812961-041	#118431	IM100B BR
RP230B	H-32/S-35	BRONZE	816322-111	#118668	IM250 C
RP230B	H-32/S-35	BRONZE	816322-041	#118436	IM252 BR
RP250	S-45	STEEL	816305-028	#118676	T7 IM280C
RP250B	S-45	BRONZE	816305-058	#118440	T7-IM280B
RP325	S-46	STEEL	816305-025	#118675	T7-IM325C
RP325B	S-46	BRONZE	816305-055	#118439	T7-IM325B
RP350	S-55	STEEL	816304-021	#118630	T7-IM350C
RP350B	S-55	BRONZE	816304-051	#118627	T7-IM350B
RP370	S-57	STEEL	816304-017	#118629	T7-IM370C
RP370B	S-57	BRONZE	816304-017	#118626	T7-IM370B
RP200	H-41	STEEL	816301-025	#118830	T7-IM230C
RP200B	H-41	BRONZE	816301-055	#118612	T7-IM230B
BEARING REBUILD KIT #2-#5			816999-041	#189033	T7-BA105

MOTORS / PUMPS / PARTS