



Quality, Reliability, Life

# Centrifugal Monoblock Pump



[www.prakashpump.com](http://www.prakashpump.com)

## Applications

- Agricultural, Industries
- Irrigation of Fields/Farms
- Hot & cold-water circulation
- Housing Complexes
- Fire Fighting System
- Community water supply

## Application Limits

- Liquid temperature : up to 105 °C
- Ambient temperature : up to 40 °C
- Max. suction : up to 8 m
- Max. operating pressure : 10 bar
- Liquid PH : 6-8
- Altitude : <1000m

## Performance Range

- Flow: up to 228 m³/h
- Head: up to 50m
- Speed: 1450 & 2900 RPM
- Power: 3Kw -22Kw

## Installation and use

These pumps are ideal for pumping clean water and other chemically and mechanically non-aggressive liquids and thanks to its Special design which allows back pull out of the motor and the rotary parts of the pump can be easily and conveniently used for a wide variety of applications in civil, agricultural, industrial or general plant uses. Water supply, spray or flowing irrigation, autoclave feed, high pressure system heating, conditioning and any other service requiring transfer of clean liquids.

## Material of Construction (MOC)

- Pump body : Cast iron
- Bracket : Cast iron
- Impeller : Cast iron
- Shaft : Stainless steel 1045/304
- Mechanical seal : Sic/Ceramic/Viton

## Motor Details

- 2 & 4 Pole induction motor (TEFC)
- 100% Copper winding
- Protection class : IPX4 / IP54
- Insulation class : F
- Voltage : 380-420v, 50Hz

## Pump Selection Chart

Model	Power		Voltage / 50Hz	Phase	Inlet x Outlet	Speed (RPM)	Max. Flow (m³/h)	Max. Head (m)
	KW	HP						
PCM-4AA-4	3.0	4.0	380-420	3 Φ	4" x 4"	1450	130	9
PCM-5.5	4.0	5.5	380-420	3 Φ	2.5" x 2.5"	2900	40	32
PCM-5.5A	4.0	5.5	380-420	3 Φ	3" x 3"	2900	66	16
PCM-5.5AA	4.0	5.5	380-420	3 Φ	4" x 4"	2900	130	16
PCM-7.5	5.5	7.5	380-420	3 Φ	2.5" x 2.5"	2900	50	28
PCM-7.5A	5.5	7.5	380-420	3 Φ	3" x 3"	2900	80	25
PCM-10	7.5	10	380-420	3 Φ	3" x 3"	2900	90	32
PCM-10AA	7.5	10	380-420	3 Φ	4" x 4"	2900	145	22
PCM-15	11	15	380-420	3 Φ	3" x 3"	2900	90	44
PCM-15A	11	15	380-420	3 Φ	4" x 3"	2900	180	27
PCM-15AAA-4	11	15	380-420	3 Φ	6" x 6"	1450	228	12
PCM-20	15	20	380-420	3 Φ	3" x 3"	2900	160	32
PCM-20A	15	20	380-420	3 Φ	4" x 3"	2900	180	30
PCM-25	18.5	25	380-420	3 Φ	3" x 3"	2900	160	44
PCM-25A	18.5	25	380-420	3 Φ	4" x 3"	2900	198	36
PCM-30	22	30	380-420	3 Φ	3" x 3"	2900	120	50
PCM-30A	22	30	380-420	3 Φ	4" x 3"	2900	198	39

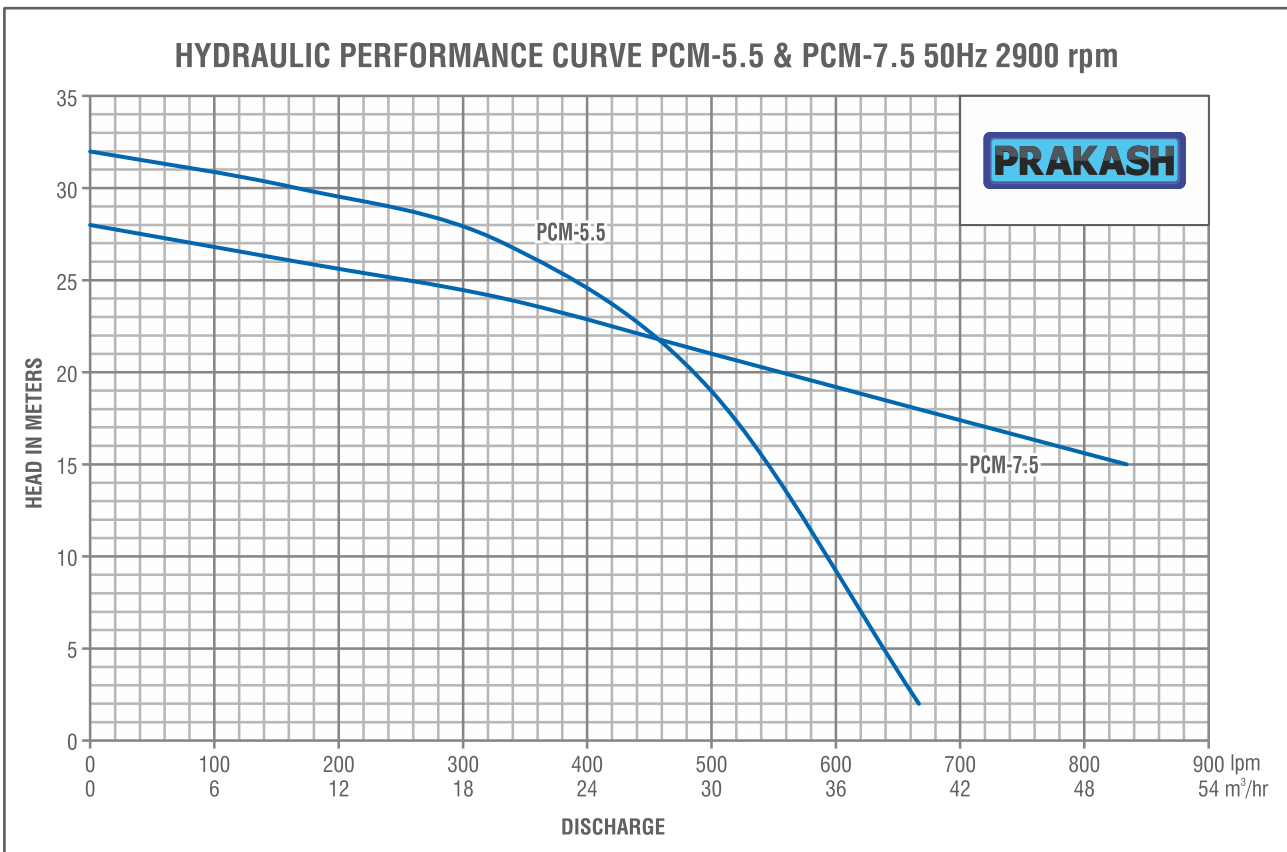
## Performance Chart

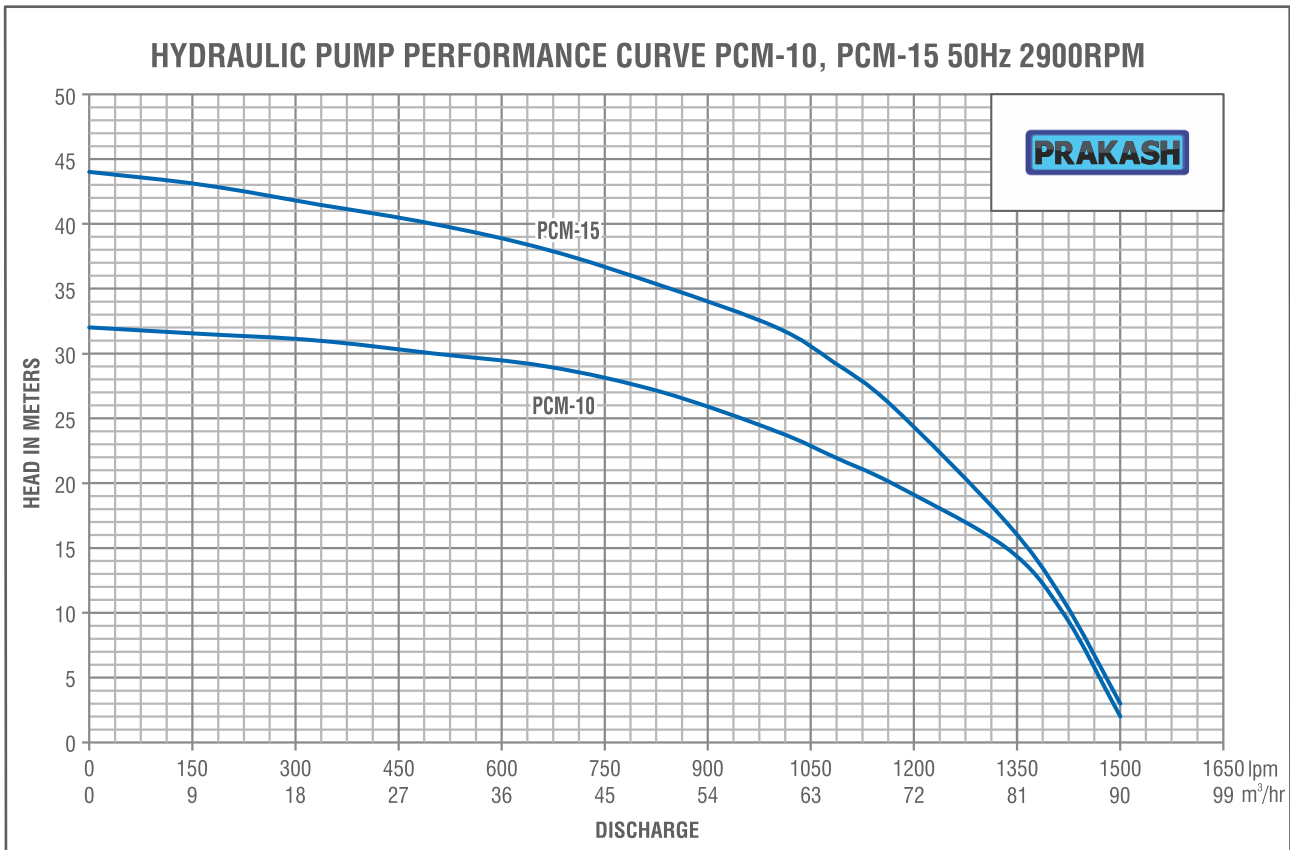
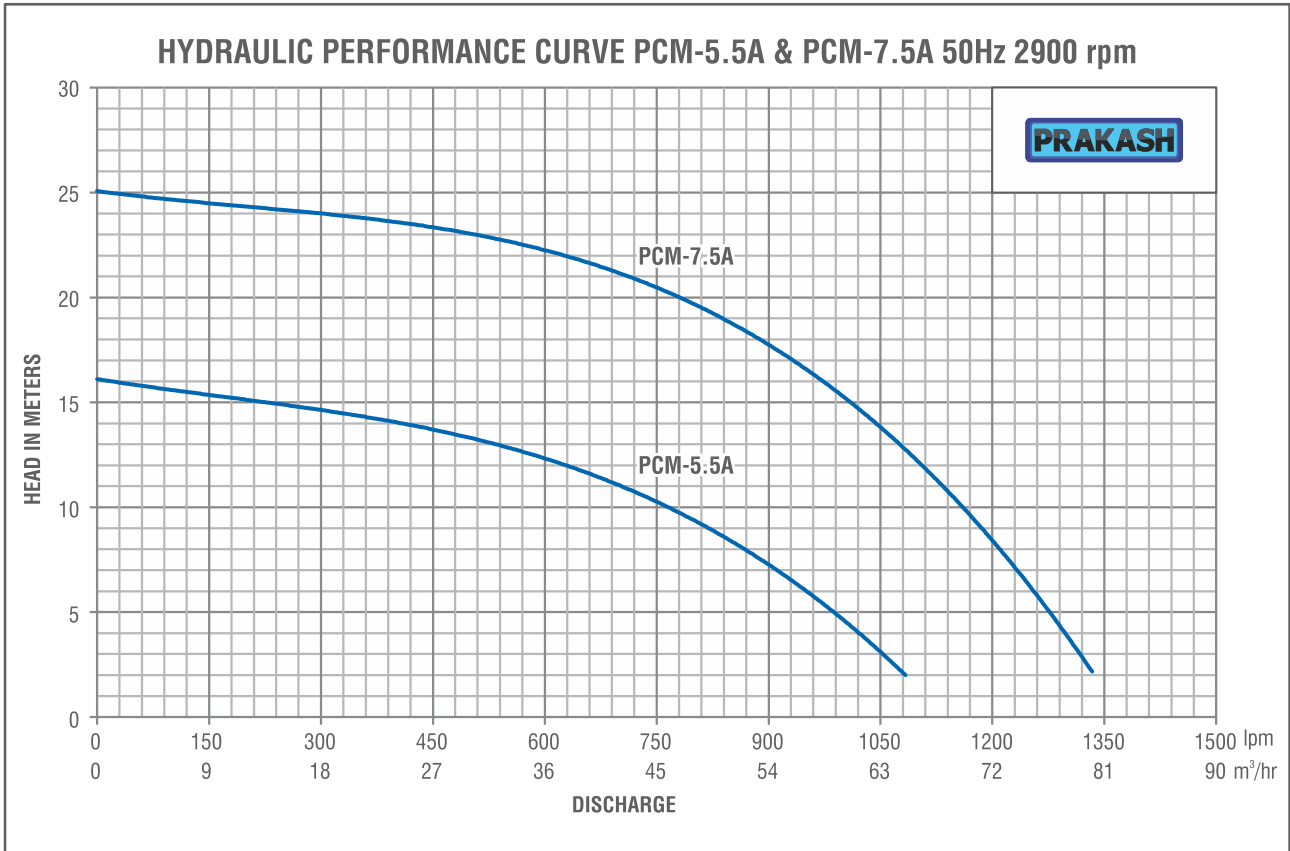
Model	Power		Q	US GPM	0	44	88	132	176	220	264	286	308	352	374	396
	KW	HP		M³/H	0	10	20	30	40	50	60	65	70	80	85	90
				LPM	0	167	333	500	667	834	1000	1084	1167	1334	1417	1500
PCM-5.5	4.0	5.5	Head (m)	32	30	27	19	2								
PCM-7.5	5.5	7.5	Head (m)	28	26	24	20	18	15							
PCM-10	7.5	10	Head (m)	32	31.5	31	30	29	27	24	22	20	15	10	2	
PCM-15	11	15	Head (m)	44	43	41.5	40	38	35	32	29.5	26	17	11	3	
PCM-5.5A	4.0	5.5	Head (m)	16	15.5	14.5	13	12	10	4	2					
PCM-7.5A	5.5	7.5	Head (m)	25	24.5	24	23	22	19	15	13	12	2			

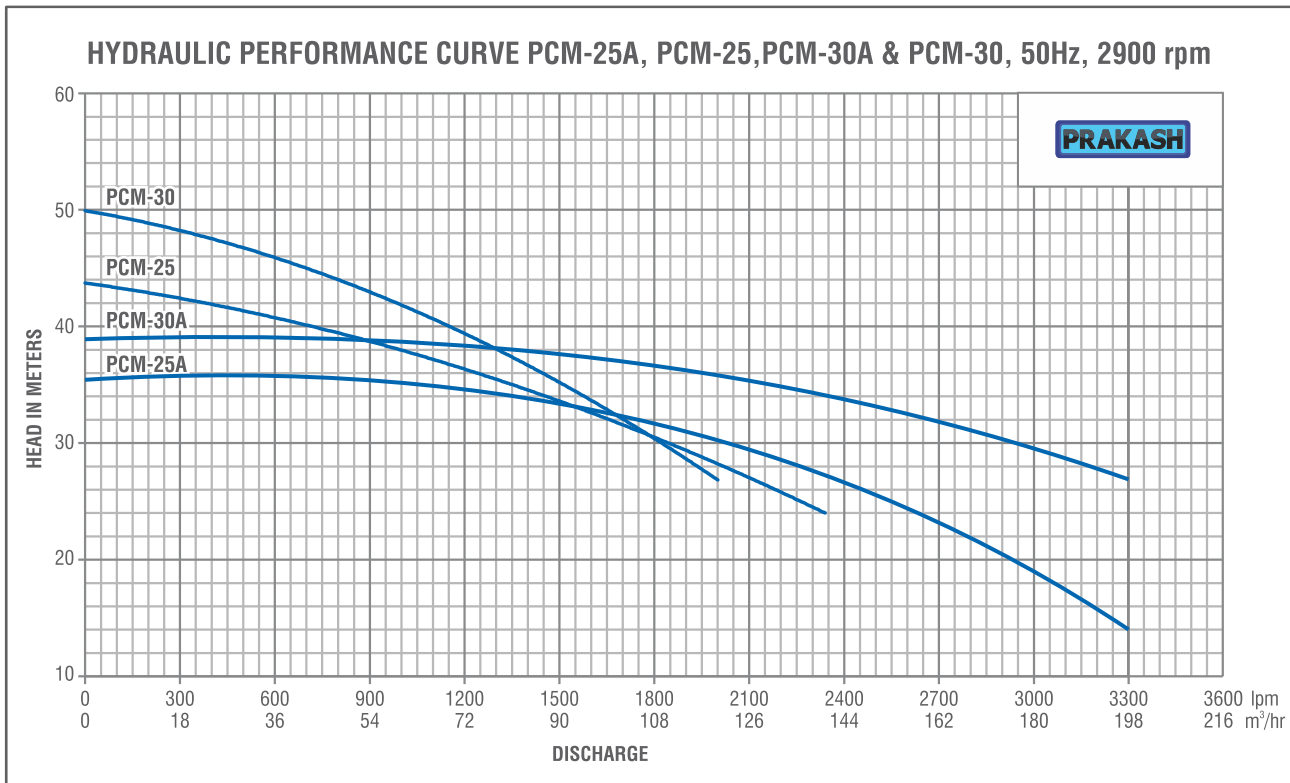
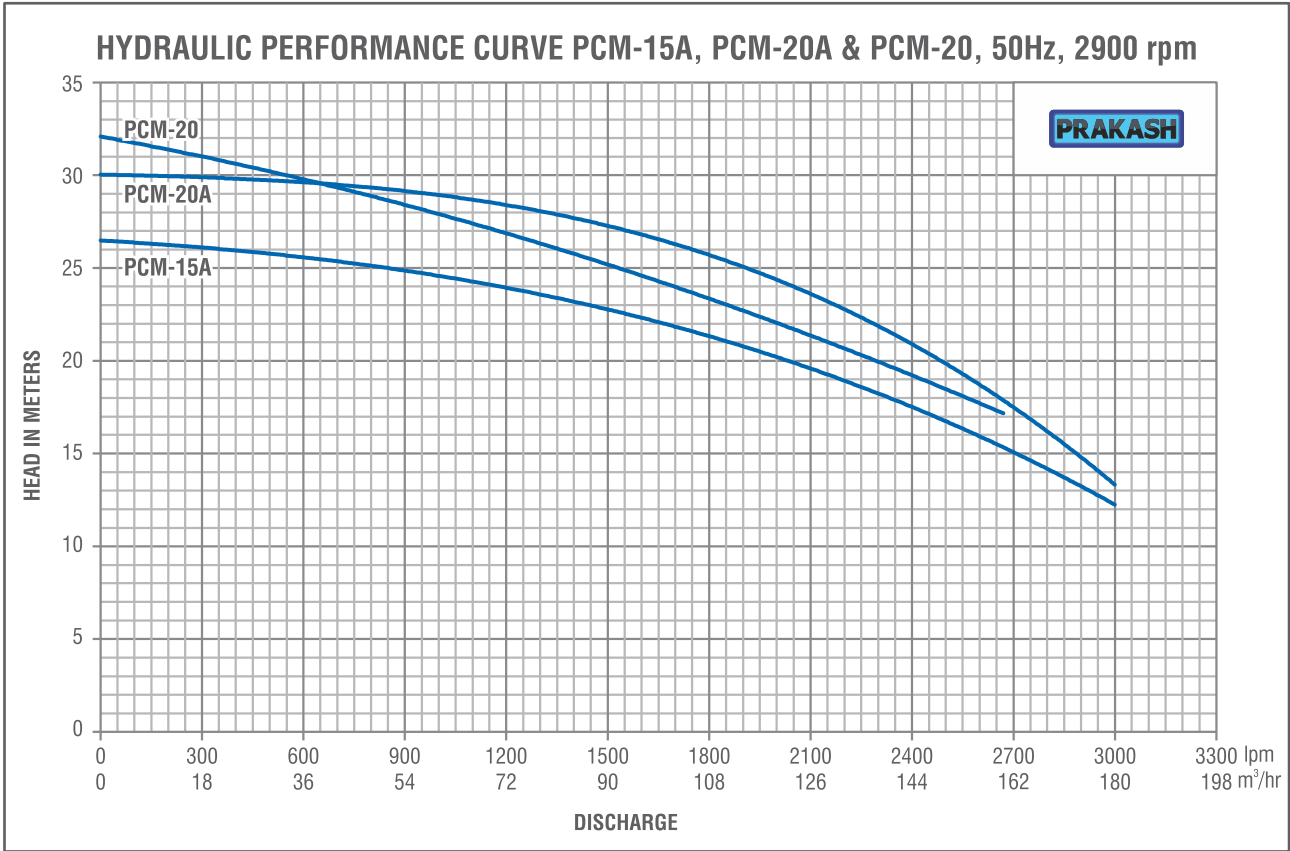
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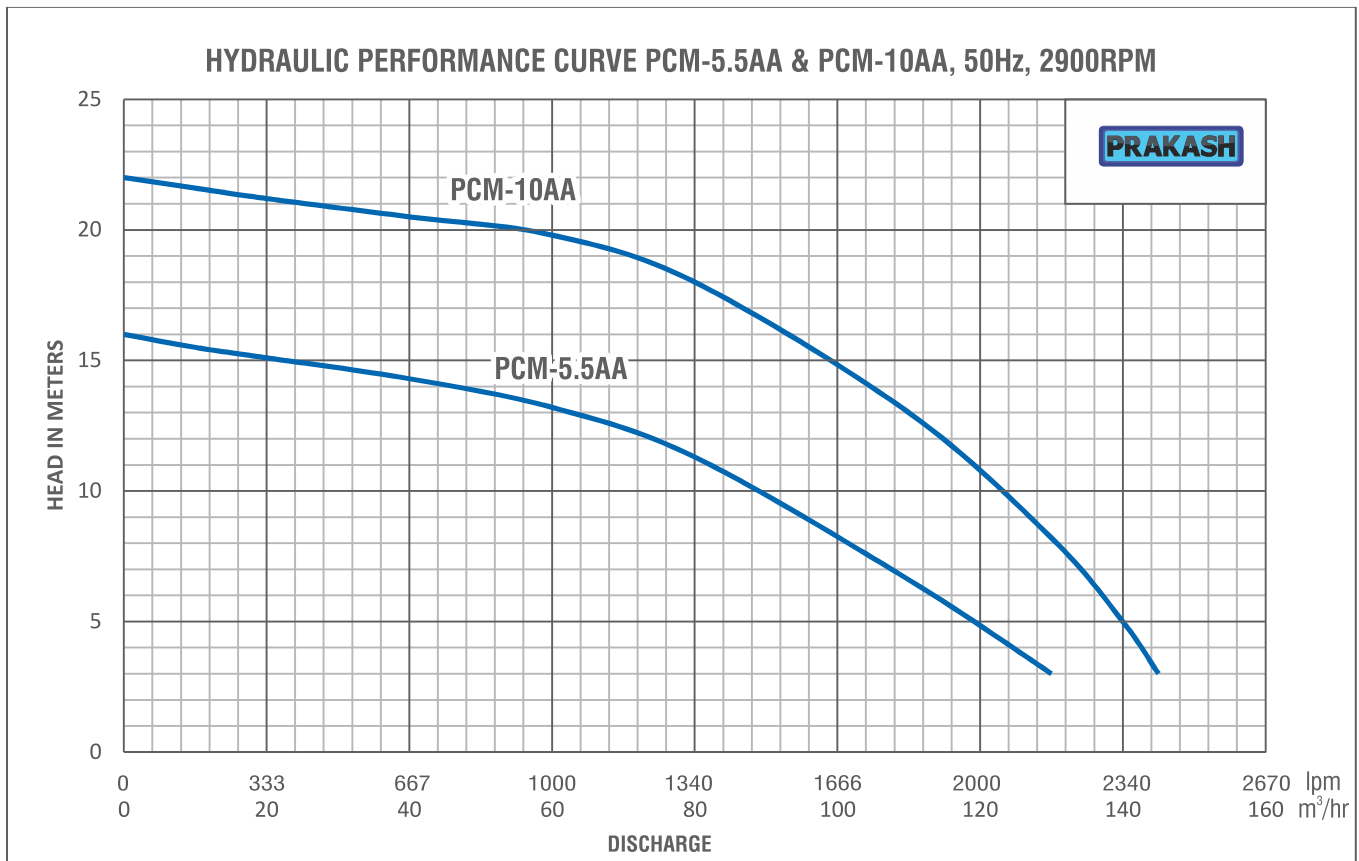
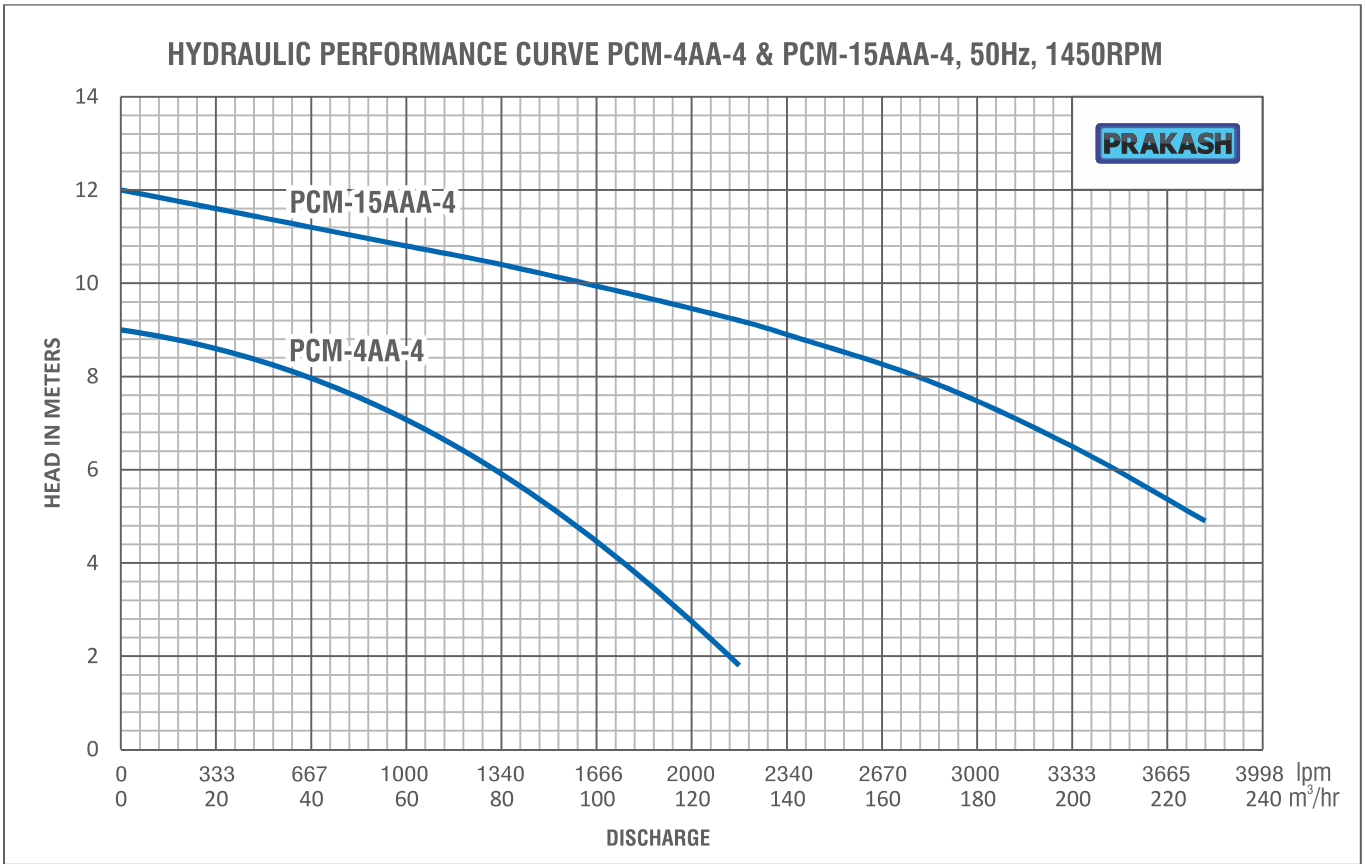
Model	Power		Q	US GPM	0	44	88	176	264	352	484	616	748	880	1004
	KW	HP		M <sup>3</sup> /H	0	10	20	40	60	80	110	140	170	200	228
				LPM	0	167	333	667	1000	1334	1883	2333	2833	3333	3800
PCM-4AA-4	3.0	4.0	Head (m)		9	8.8	8.5	8	7	5.8	3.5				
PCM-5.5AA	4.0	5.5	Head (m)		16	15.5	15	14.3	13.2	11.3	6.6				
PCM-10AA	7.5	10	Head (m)		22	21.5	21	20.5	20	18	13	5			
PCM-15AAA-4	11	15	Head (m)		12	11.8	11.6	11.2	10.8	10.5	9.7	9	8	6.5	5

Model	Power		Q	US GPM	0	88	176	264	354	441	528	618	705	793	872
	KW	HP		M <sup>3</sup> /H	0	20	40	60	80	100	120	140	160	180	198
				LPM	0	333	667	1000	1340	1670	2000	2340	2670	3000	3300
PCM-15A	11	15	Head (m)		27	26	26	25	24	22	20	18	16	12	
PCM-20A	15	20	Head (m)		30	30	30	29	28	26	24	22	19	13	
PCM-20	15	20	Head (m)		32	31	30	28	26	24	22	20	17		
PCM-25A	18.5	25	Head (m)		36	35	35	35	34	33	30	27	24	18	12
PCM-25	18.5	25	Head (m)		44	42	40	38	36	32	28	24	20		
PCM-30A	22	30	Head (m)		39	39	39	39	38	38	36	34	32	29	27
PCM-30	22	30	Head (m)		50	48	45	42	38	32	27				









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