

HD *Magnum*[™]

HYDRAULIC DRIVEN
Centrifugal Pumps

Centrifugal Pumps & Accessories

Delavan HD Magnum pumps handle high capacity liquid transfer with ease. Our heavy casing pumps increases the life of pump components by resisting corrosion and abrasion, assuring reliability in the field for years.



DELAN^{AN}

Discover the Delavan Difference

HD Magnum

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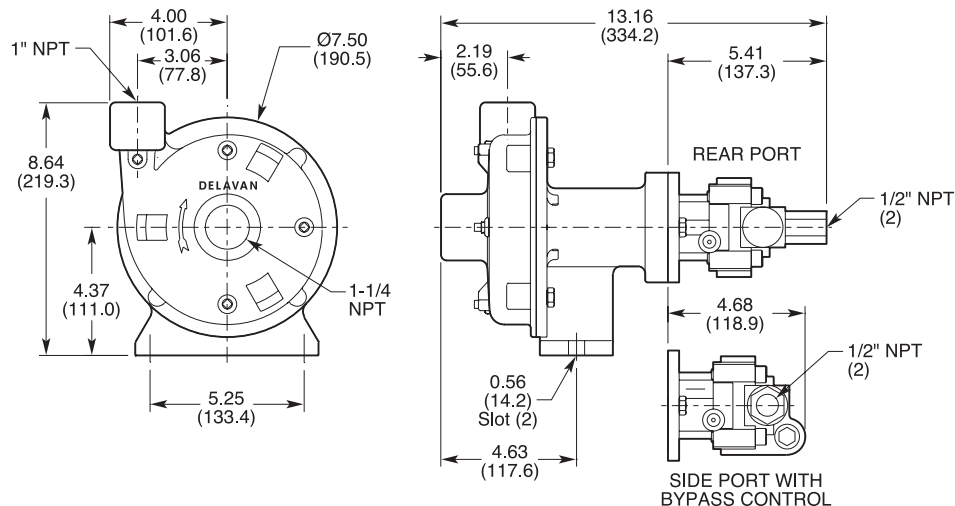
HD Magnum M125 – 95 GPM Pump

Pump

Type: Centrifugal
 Max Recommended Temperature: 140°
 Port Size: Inlet: 1-1/4" SAE x FNPT
 Outlet: 1" FNPT
 Max Flow (GPM): 95
 Max Pressure
 Shut Off (PSI): 130
 Hydraulic Motor Ports: 1/2" SAE x FNPT
 Weight: 29 lbs.

Materials of Construction

Motor Housing: Aluminum
 Pump Housing: Cast Iron or Stainless Steel
 Impeller: Nylon (standard) or polypropylene (optional);
 with or without stainless steel inserts
 Mechanical Seals: Cast Iron: Viton/Ceramic Seals (standard)
 SS: Viton/Silicon Carbide (standard)





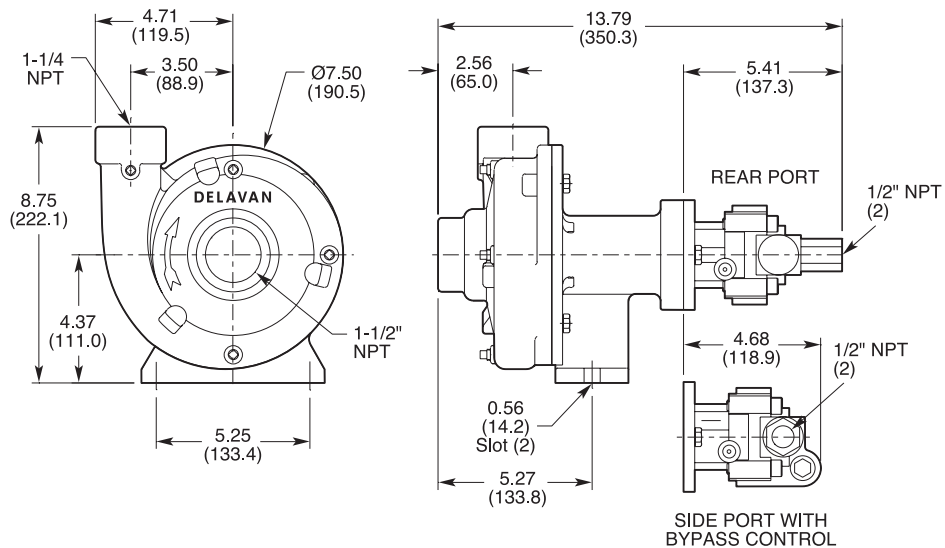
HD Magnum M150 – 191 GPM Pump

Pump

Type: Centrifugal
 Max Recommended Temperature: 140°
 Port Size: Inlet: 1-1/2" SAE x FNPT
 Outlet: 1-1/4" FNPT
 Max Flow (GPM): 191
 Max Pressure
 Shut Off (PSI): 140
 Hydraulic Motor Ports: 1/2" SAE x FNPT
 Weight: 32 lbs.

Materials of Construction

Motor Housing: Aluminum
 Pump Housing: Cast Iron or Stainless Steel
 Impeller: Nylon (standard) or polypropylene (optional);
 with or without stainless steel inserts
 Mechanical Seals: Cast Iron: Viton/Ceramic Seals (standard)
 SS: Viton/Silicon Carbide (standard)



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HD Magnum M200 – 245 GPM Pump

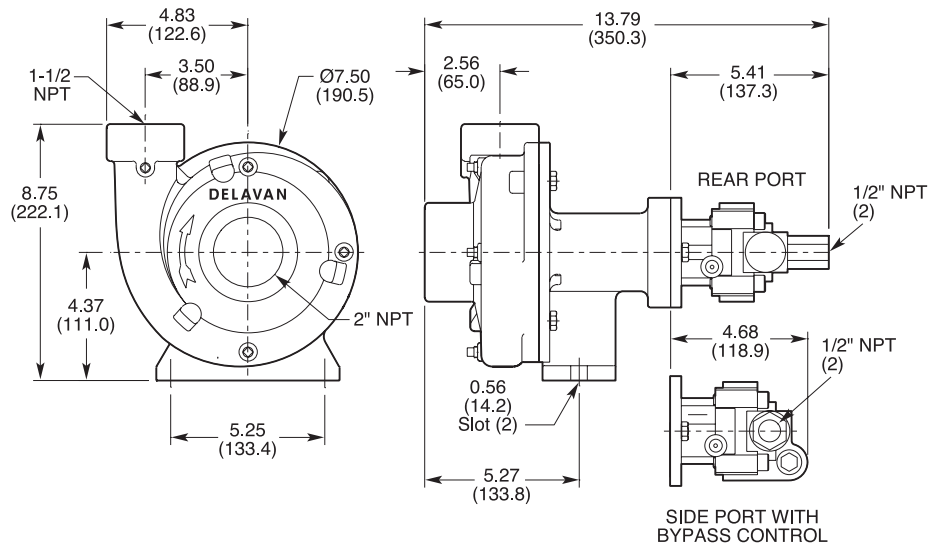


Pump

Type: Centrifugal
 Max Recommended Temperature: 140°
 Port Size: Inlet: 2" SAE x FNPT
 Outlet: 1-1/2" FNPT
 Max Flow (GPM): 245
 Max Pressure
 Shut Off (PSI): 150
 Hydraulic Motor Ports: 1/2" SAE x FNPT
 Weight: 33 lbs.

Materials of Construction

Motor Housing: Aluminum
 Pump Housing: Cast Iron or Stainless Steel
 Impeller: Nylon (standard) or polypropylene (optional);
 with or without stainless steel inserts
 Mechanical Seals: Cast Iron: Viton/Ceramic Seals (standard)
 SS: Viton/Silicon Carbide (standard)



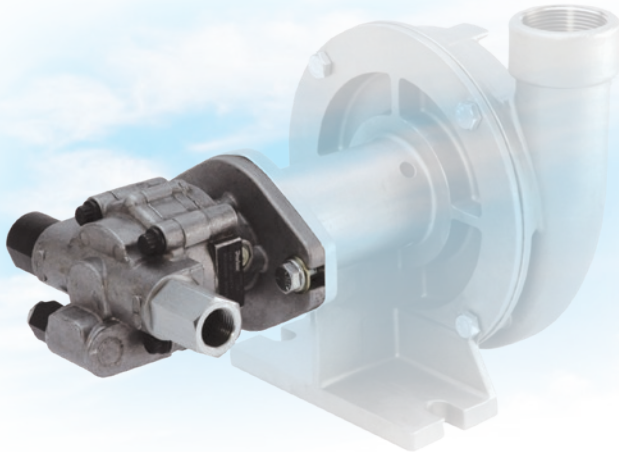
HD MAGNUM SERIES PERFORMANCE

*Note: Smaller displacement motors on larger pumps can cause pressure on the hydraulic motor to exceed recommended manufacturer's specifications.

Pump Size	Hydraulic Motor Size	Hydraulic Oil Flow (GPM)	Pump Flow GPM @ Rate PSIG													
			10	20	30	40	50	60	70	80	90	100	110	120	130	140
M125	PM21*	5	58	55	51	38	31	17								
		6	65	64	63	59	54	49	42	34	26	15				
		7	73	72	70	69	68	64	59	53	45	38	30	22		
	PM37	7	69	68	66	63	55	44	25	16						
		8	78	76	75	71	69	61	52	34	15					
		9	79	77	76	73	70	63	59	46	30	8				
M150	PM37*	7	155	144	127	105	65	21								
		8	175	170	161	145	126	104	78	43						
		9	180	172	163	151	138	115	88	64	39					
	PM45	11	180	173	165	152	136	123	101	82	61	32	8			
		12	185	177	169	160	151	138	121	103	82	63	45	11		
		13	191	182	174	168	159	145	133	117	101	86	60	36		
		13	172	165	159	148	136	124	106	86	66	37	12			
	PM58	14	180	172	164	156	147	135	120	104	86	69	51	15		
		15	185	174	165	159	150	141	131	118	101	88	63	38		
	PM70B	15	163	157	152	149	145	126	100	64	10					
		16	171	164	156	153	149	144	135	117	79	51				
17		176	167	159	155	150	146	139	121	82	53					
17		176	167	159	155	150	146	139	121	82	53					
M200	PM45*	11	229	221	217	193	180	149	128	111	75	42	29			
		12	240	236	230	220	205	154	151	137	123	93	81	41	14	
		13	245	238	229	216	199	186	167	146	122	108	76	55	17	
	PM58	13	232	226	214	200	184	161	139	110	79	36				
		14	235	229	222	204	190	169	145	124	100	70	44	12	10	
	PM58B	15	240	232	226	209	195	179	156	135	110	84	53	32	20	10
		15	163	157	152	149	145	128	100	64	10					
	PM70B	16	171	164	156	153	149	144	135	117	79	51				
		17	176	167	159	155	150	146	139	121	82	53				
		17	176	167	159	155	150	146	139	121	82	53				

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Hydraulic Motors

Delavan Hydraulic Motors are matched to HD Magnum Series Centrifugal pumps

Rear Ports

Motor Flow (GPM)
PM21: 5-7
PM37: 7-10
PM45: 10-13
PM58: 12-15



Side Ports

Motor Flow (GPM)
PM58B: 12-15
PM70B: 13-18



HD Magnum Repair Kits

HD Magnum Repair Kits

Kit contains appropriate seals, gasket hardware, and instructions.

With Viton/Ceramic Seals:

M125 – Part# RK-M125VC
M150 & M200 – Part# RK-M215VC

With Viton/Silicon Carbide Seals:

M125 – Part# RK-M125VS
M150 & M200 – Part# RK-M215VS

HD Magnum Hydraulic Motor Repair Kits

Bypass Valve Assembly – Part# 904003

Seal Kit – Part# 904804

Bearing Kit (includes bearing and seal kit) – Part# 904824

Old Style Delavan Centrifugal Pump Repair Kits

For centrifugal pump models 34945-1 and 35566-1.

Kit contains Viton/ceramic seal, gasket, hardware, and instructions. – Part# 35745



Old Style
Repair Kit #
35745



RK-M215VC



RK-M215VS

Pump Installation Guidelines

1. Mount the pump below the liquid level in the tank to ease priming. Install a 20 mesh suction filter and tank shutoff on the pump inlet.
2. The volute casing can be rotated to have the discharge in any of four positions. The top position is best to aid in pump priming by eliminating air from the pump.
3. Pump ratings are based on using adequate size hose. We recommend using hose size that is equal to the port size or larger. Smaller hose can be used but will affect the pump performance.
4. Four 1/8" NPT plug vent lines are located on the front of the pump. Remove the 1/8" NPT plug positioned at the highest point on the pump. Install a small diameter hose or tube (typically 1/8") back to the tank to allow air to be vented from the pump. This allows the pump to prime properly and decreases potential pressure fluctuations.

Caution:

Do not run the pump dry! Make sure pump is filled with liquid when starting. Shut off the pump when the tank is empty. Running the pump dry will damage the seals!

Motor Installation Guidelines

1. Refer to your Pump/Tractor Selection Guide to determine the correct installation section to follow.
2. For all models, remove the cap plugs from the motor ports. When assembling the hydraulic hoses to the motor, make sure to keep the hydraulic connections clean. Do not allow paint, dirt or metal particles to fall into the ports.
3. Make sure the hydraulic quick disconnects are clean and completely engage when coupled to the tractor hydraulics.
4. Make sure that the hydraulic connections are to the correct port. The ports are clearly marked IN and OUT.

Caution:

Do not run the pump at deadhead (pump primed but no outlet flow) for more than two minutes. Pump seals will overheat and may be damaged due to heat buildup.

