



Machine Tool Coolant Pumps

Coolant Pumps—Circulate coolant through a system to prevent cutting tools from overheating. Pumps can be placed in-line in the machine cutting system and are partially submersible. 3-phase pumps do not have overload protection, which must be provided by a starter unit sold separately, see page 153.

Mounting Brackets—Cast iron brackets fasten machine tool coolant pumps to a wall or surface. Mounting brackets must match the pump's brand and manufacturer model number. Include mounting hardware.



**Graymills
56YR40**



**Dayton
4JPH3**



**Fuji Electric
3P726**



**Dayton Mounting
Bracket
4JPH1**

HP	Flow Rate (Maximum, Water)	Flow Rate @ 5 ft of Head (Maximum, Water)	Flow Rate @ 10 ft of Head (Maximum, Water)	Flow Rate @ 15 ft of Head (Maximum, Water)	Maximum Feet of Head*	Impeller Material	Intake/ Discharge Size	Intake/ Discharge Type	Maximum Viscosity	Maximum Media Temperature	Max. Immersion Depth	Motor Enclosure†	Mfr. Model	Item No.
Graymills Machine Tool Coolant Pumps														
Single Phase, 115/230V AC, Cast Iron Housing														
1/8	10.5 gpm	8 gpm	5 gpm	—	13 ft	Plastic	3/4 in. 3/4 in.	NPT	500 SUS	180 °F	—	TENV	IMS08-E	56YR46
1/4	10 gpm	9 gpm	9 gpm	—	13 ft	Plastic	3/4 in. 3/4 in.	NPT	500 SUS	180 °F	6 in	TENV	IMV08-E	56YR40
1/4	20 gpm	18 gpm	14 gpm	9 gpm	25 ft	Plastic	1/2 in. 1/2 in.	NPT	500 SUS	—	7.06 in	TEFC	IMV25-F	795WM7
1/2	35 gpm	37 gpm	33 gpm	27 gpm	35 ft	Aluminum	3/4 in. 3/4 in.	NPT	500 SUS	—	9.56 in	TEFC	IMV50-E	795WM8
1/2	32 gpm	37 gpm	33 gpm	30 gpm	35 ft	Aluminum	3/4 in. 3/4 in.	NPT	500 SUS	—	0 in	TEFC	IMS50-E	795WM3
Three Phase, 230/460V AC, Cast Iron Housing														
1/8	10.5 gpm	8 gpm	5 gpm	—	13 ft	Plastic	3/4 in. 3/4 in.	NPT	500 SUS	180 °F	—	TENV	IMS08-F	56YR47
1/4	10 gpm	9 gpm	9 gpm	—	13 ft	Plastic	3/4 in. 3/4 in.	NPT	500 SUS	180 °F	6 in	TENV	IMV08-F	56YR41
1/4	20 gpm	27 gpm	20 gpm	17 gpm	32 ft	Plastic	3/4 in. 1/2 in.	NPT	500 SUS	180 °F	7 in	TEFC	IMV25-F	56YR42
1/4	43 gpm	47 gpm	45 gpm	42 gpm	45 ft	Aluminum	1 in. 1 in.	NPT	500 SUS	—	0 in	TEFC	IMS75-F	795WM5
1/4	40 gpm	50 gpm	45 gpm	35 gpm	66 ft	Aluminum	1 in. 1 in.	NPT	500 SUS	180 °F	11 in	TEFC	IMV75-F	56YR44
1/2	32 gpm	37 gpm	33 gpm	30 gpm	35 ft	Aluminum	3/4 in. 3/4 in.	NPT	500 SUS	—	0 in	TEFC	IMS50-F	795WM4
1/2	35 gpm	38 gpm	35 gpm	30 gpm	41 ft	Aluminum	3/4 in. 3/4 in.	NPT	500 SUS	180 °F	9.5 in	TEFC	IMV50-F	56YR43
1	48 gpm	50 gpm	48 gpm	47 gpm	55 ft	Aluminum	1 in. 1 in.	NPT	500 SUS	—	0 in	TEFC	IMS100-F	795WM6
1	50 gpm	50 gpm	48 gpm	47 gpm	55 ft	Aluminum	1 in. 1 in.	NPT	500 SUS	—	11.47 in	TEFC	IMV100-F	795WM9
Dayton Machine Tool Coolant Pumps														
Single Phase, 115/230V AC, Cast Iron Housing														
1/8	12.5 gpm	9.8 gpm	4 gpm	—	10 ft	Stainless Steel	3/4 in. 3/4 in.	NPT	500 SUS	200 °F	6.38 in	TEFC	—	4JPH3
Three Phase, 230/460V AC, Cast Iron Housing														
1/4	55.5 gpm	52 gpm	2,610 gph	26.4 gpm	18 ft	Stainless Steel	1 1/4 in. 1 1/4 in.	NPT	500 SUS	200 °F	8.25 in	TEFC	—	4JPG9
1/4	57.6 gpm	54 gpm	45.5 gpm	32.5 gpm	21.3 ft	Stainless Steel	1 1/4 in. 1 1/4 in.	NPT	500 SUS	200 °F	6.38 in	TEFC	—	4JPG7
1/2	74 gpm	70.3 gpm	63 gpm	53 gpm	26.2 ft	Stainless Steel	1 1/2 in. 1 1/2 in.	NPT	500 SUS	200 °F	12.25 in	TEFC	—	4JPH8
3/4	83.5 gpm	80.2 gpm	72.8 gpm	62.5 gpm	27.9 ft	Stainless Steel	1 1/2 in. 1 1/2 in.	NPT	500 SUS	200 °F	12.25 in	TEFC	—	4JPH6
Three Phase, 230V AC, Brass, Bronze Housing														
1/25	7.1 gpm	5.5 gpm	—	—	7.8 ft	Bronze	3/8 in. 3/8 in.	NPT	500 SUS	200 °F	6 in	TEFC	—	4JPG5
Fuji Electric Machine Tool Coolant Pumps														
Three Phase, 230/460V AC, Cast Iron Housing														
1/20	—	7.2 gpm	5.9 gpm	3.8 gpm	19 ft	Plastic	1/4 in. 1/4 in.	—	800 SUS	104 °F	—	—	VKN-043A-4Z	3P726
1/20	—	7.2 gpm	5.9 gpm	3.8 gpm	19 ft	Bronze	1/4 in. 1/4 in.	—	800 SUS	104 °F	—	—	VKP-043A-4Z	3P744
1/12	—	8.3 gpm	5.9 gpm	4.7 gpm	19 ft	Bronze	3/8 in. 3/8 in.	—	800 SUS	104 °F	—	—	VKN-053A-4Z	3P727
1/12	—	8.3 gpm	5.9 gpm	4.7 gpm	19 ft	Bronze	3/8 in. 3/8 in.	—	800 SUS	104 °F	—	—	VKP-053A-4Z	3P745
1/8	—	17.1 gpm	14.4 gpm	10.6 gpm	21 ft	Bronze	3/8 in. 3/8 in.	—	800 SUS	104 °F	—	—	VKN-063A-4Z	3P728
1/8	—	17.1 gpm	14.4 gpm	10.6 gpm	21 ft	Bronze	3/8 in. 3/8 in.	—	800 SUS	104 °F	—	—	VKP-063A-4Z	3P746
1/4	—	—	32 gpm	26 gpm	34 ft	Plastic	1/2 in. 1/2 in.	—	800 SUS	104 °F	—	—	VKN-073A-4Z	3P747
1/4	—	—	32 gpm	26 gpm	34 ft	Plastic	1/2 in. 1/2 in.	—	800 SUS	104 °F	—	—	VKN-073A-4Z	3P741
1/4	—	—	32 gpm	26 gpm	34 ft	Plastic	1/2 in. 1/2 in.	—	800 SUS	104 °F	—	—	VKN-083A-4Z	3P742
1/4	—	54 gpm	47 gpm	36 gpm	34 ft	Bronze	3/4 in. 3/4 in.	—	800 SUS	104 °F	—	—	VKN-083A-4Z	3P748
1/2	—	54 gpm	47 gpm	36 gpm	34 ft	Bronze	3/4 in. 3/4 in.	—	800 SUS	104 °F	—	—	VKN-083A-4Z	3P743
1/2	—	62 gpm	59 gpm	55 gpm	40 ft	Bronze	1 in. 1 in.	—	800 SUS	104 °F	—	—	VKN-093A-4Z	3P749
1/2	—	62 gpm	59 gpm	55 gpm	40 ft	Bronze	1 in. 1 in.	—	800 SUS	104 °F	—	—	VKN-093A-4Z	3P749

Compatible Pump Grainger Part Number		Item No.
Dayton Machine Tool Coolant Pump Mounting Brackets	4JPG7, 4JPG9, 4JPH6, 4JPH8	4JPH1
	4JPH3, 4JPH4	4JPH2

* To convert to psi, divide total feet of head by 2.31. † TENV = Totally Enclosed Nonventilated. TEFC = Totally Enclosed Fan Cooled.



Machine Coolant Tanks and Pump/Tank Combinations

For use on small drill presses, tool grinders, tapping machines, cut-off saws, and small lathes.

Tanks—Pump not included.

Polyethylene Pump/Tank Combinations—Flexible discharge hose has flow control valve. Removable screen and chip collector.
■ Max. temp.: 120 °F

Tank Cap. (gal.)	Tank Material	Inlet Thread Size	Coolant Hose Material	Includes	Overall Length	Overall Width	Overall Height	Item No.					
Tanks													
5	Polyethylene	½ in	Plastic	5-Gallon, Polyethylene Tank Metal Chip Collector Basket, Baffle, 6 ft Plastic Hose, Flex Nozzle and Brass Control Valve	16.8800 in	11.25 in	8.5200 in	2P344					
10	Painted Steel	½ in	Neoprene	4 ft Neoprene Hose with Brass Nuts, Flex Nozzle, Brass Control Valve, Removable Chip Collector Tray and Splash Deflector	25.0000 in	10 in	12.0500 in	2P345					
HP	Volts	Amps	Inlet/Outlet (in.)	Tank (gal.)	GPM of Water @ Total ft. of Head				Shut-Off (ft.)	Dim. (in.)			Item No.
Polyethylene Pump/Tank Combinations					1	3	5	10		L	W	H	
1/50	115	1.1	¼	5	3.4	2.8	2	—	7.5	11	15½	8	7P078
1/50	115	1.1	¼	5	3.5	3	2.5	0.2	10.1	11	15½	8	7P079
1/50	115	1	¼	1	1.7	1.4	1.3	—	14	12	6	9¾	41A082
1/40	115	1.7	¼	5	5.4	5	4.5	—	12.3	11	15½	8	7P080
1/15	115	3.2	½	5	8.3	7.25	5.6	3.5	17.3	11	15½	8	7P081
1/15	115	3.2	½	10	8.3	7.25	5.6	3.5	17.3	10	25	11¾	7P083



2P345



41A082