

# Dayton High-Head Multi-Stage Pressure Booster Pumps



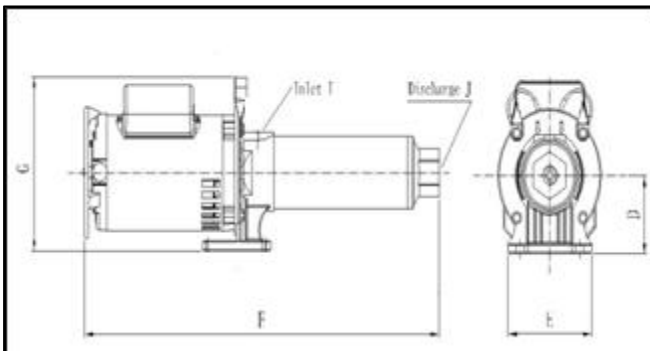
## PUMPS technical data sheet

High-Head Multi-Stage Booster pumps are designed for fluid transfer and general pressure boosting applications. These pumps are typically used in industrial applications and are designed to operate continuously. These pumps are not submersible and are manually operated.



<b>Max. Suction Lift</b>	10 feet (3m)
<b>Max. Case Pressure</b>	300 psi
<b>Overload Protection</b>	Auto Reset Thermal Overload
<b>Motor Shaft Material</b>	430 Stainless Steel
<b>Motor Housing Material</b>	Painted Rolled Steel
<b>Motor Duty</b>	Continuous
<b>Motor Bearings</b>	Double Sealed Single Row Ball
<b>Frequency (Hz)</b>	60
<b>RPM</b>	3450
<b>Motor Type</b>	NEMA 56J - ODP
<b>Bearing Lubrication</b>	Permanently Lubricated
<b>Volute Material</b>	Cast Iron
<b>Impeller Type</b>	Enclosed
<b>Impeller Material</b>	Composite
<b>Diffuser Material</b>	Composite
<b>Hardware Material</b>	304 Stainless Steel
<b>O-rings</b>	Buna-N
<b>Seal Type</b>	Type 21 Single Mechanical
<b>Seal Materials</b>	Carbon/Ceramic/Buna
<b>Operation</b>	Manual Operation
<b>Power Connection</b>	Conduit Box
<b>Max. Water Temperature</b>	40-140° F (4-60° C)
<b>Max. Ambient Temperature</b>	104° F (40° C)
<b>Designed Fluid Environment</b>	Liquid Transfer, Cooling, Circulating

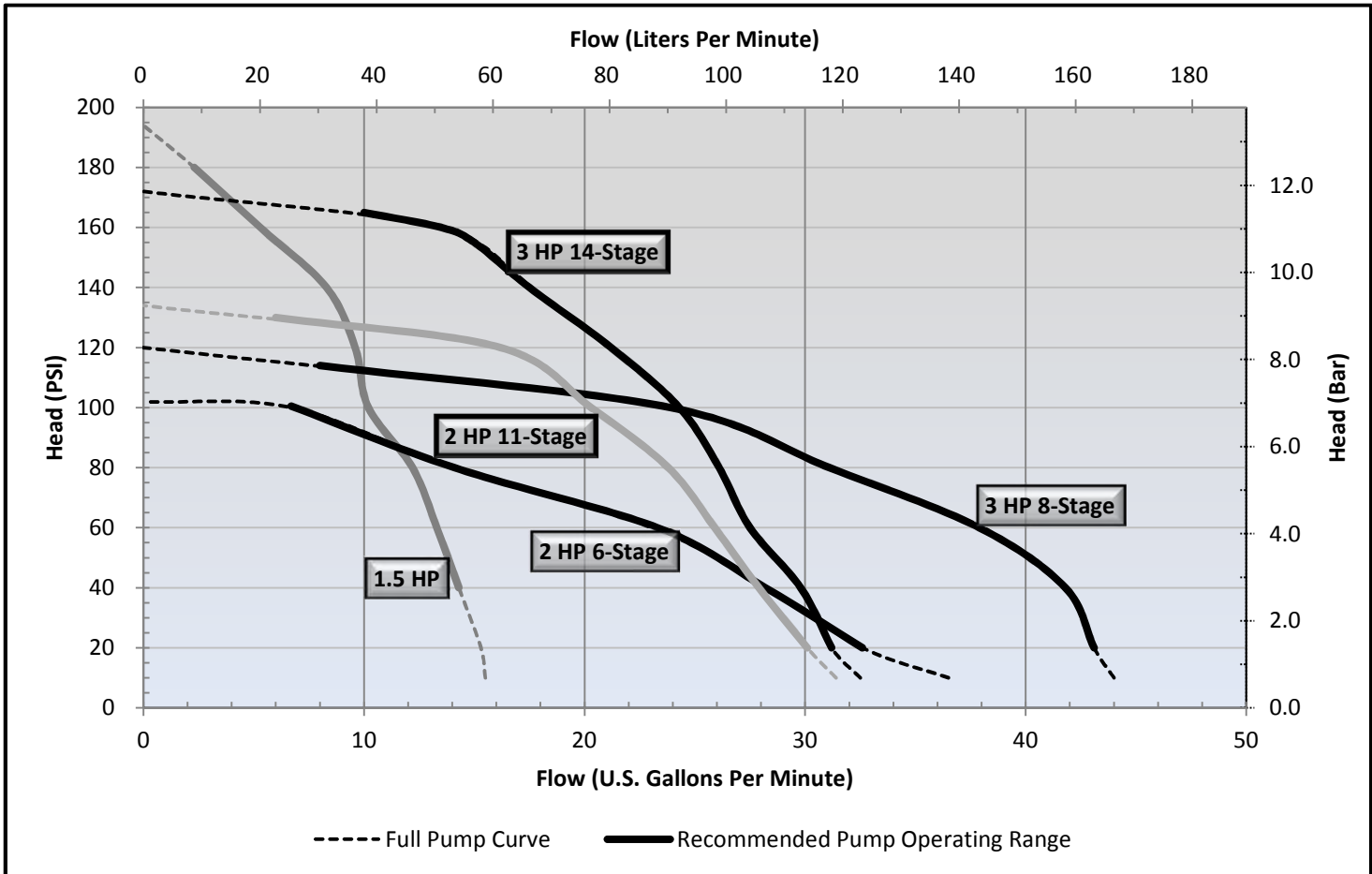
**1-1/2 HP through 3 HP Cast Iron and 304 Stainless Steel High-Head Multi-Stage Pressure Booster Pumps**



HP	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2	2	2	2	3	3	3	3	3	3
<b>Material Number</b>	5NXZ9	5NYA0	5NYC4	5NYC5	5NYA1	5NYA2	5NYA3	5NYA4	5NYC6	5NYC7	5NYA5	5NYA6	5NYA8	5NYA7	5NYC8	5NYC9
<b>Stages</b>	16	16	16	16	6	6	11	11	11	11	8	8	14	14	14	14
<b>Voltage</b>	115/230	230/460	115/230	230/460	115/230	230/460	115/230	230/460	115/230	230/460	230	230/460	230	230/460	230	230/460
<b>Volute Material</b>	Cast Iron	Cast Iron	Stainless Steel	Stainless Steel	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Stainless Steel	Stainless Steel	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Stainless Steel	Stainless Steel
<b>Phase</b>	1	3	1	3	1	3	1	3	1	3	1	3	1	3	1	3
<b>Run Amps</b>	18.5/9.25	5.7/2.85	18.5/9.25	5.7/2.85	25/12.5	7.8/3.9	25/12.5	7.8/3.9	25/12.5	7.8/3.9	13.5	9.2/4.6	13.5	9.2/4.6	13.5	9.2/4.6
<b>Inlet I (FNPT)</b>	¾ Inch	¾ Inch	¾ Inch	¾ Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch
<b>Discharge J (FNPT)</b>	¾ Inch	¾ Inch	¾ Inch	¾ Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch	1 Inch
<b>Dimension C (Inch)</b>	18-1/8	18-1/8	18-1/8	18-1/8	13-15/16	13-15/16	15-3/8	15-3/8	15-3/8	15-3/8	17-1/8	17-1/8	18-1/2	18-1/2	18-1/2	18-1/2
<b>Dimension D (Inch)</b>	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8	3-7/8
<b>Dimension E (Inch)</b>	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2	6-1/2
<b>Dimension F (Inch)</b>	28-3/4	28-3/4	28-3/4	28-3/4	25-3/4	25-3/4	26-5/8	26-5/8	26-5/8	26-5/8	29	29	30-37/64	30-37/64	30-37/64	30-37/64

## Performance Data

<b>Head</b>	<b>1-1/2 HP</b>	Shut off 194 psi. / 13.37 bar	Feet	23	46	92	139	185	231	277	323	370	416	448
<b>Flow Rate</b>		Max. Flow 15.5 gpm / 58.7 lpm	GPM	15.5	15.3	14.3	13.3	12.2	10.2	9.6	8.3	5.3	2.3	0
<b>Head</b>	<b>2 HP 6 Stage</b>	Shut off 102 psi. / 7.03 bar	Feet	23	46	92	139	185	231	277	-	-	-	-
<b>Flow Rate</b>		Max. Flow 38 gpm / 143.8 lpm	GPM	36.5	32.6	28.2	23.3	14.1	6.7	-	-	-	-	-
<b>Head</b>	<b>2 HP 11 Stage</b>	Shut off 134 psi. / 9.24 bar	Feet	23	46	92	139	185	231	277	323	-	-	-
<b>Flow Rate</b>		Max. Flow 33 gpm / 124.9 lpm	GPM	31.4	30.1	27.9	25.9	23.8	20.3	16.2	-	-	-	-
<b>Head</b>	<b>3 HP 8 Stage</b>	Shut off 120 psi. / 8.27 bar	Feet	23	46	92	139	185	231	277	-	-	-	-
<b>Flow Rate</b>		Max. Flow 44 gpm / 166.6 lpm	GPM	44	43.1	41.8	37.9	31.1	23.9	0	-	-	-	-
<b>Head</b>	<b>3 HP 14 Stage</b>	Shut off 397 ft. / 121 m	Feet	23	46	92	139	185	231	277	323	370	416	-
<b>Flow Rate</b>		Max. Flow 33 gpm / 124.9 lpm	GPM	32.5	31.2	29.8	27.5	26.1	24.3	21.2	17.5	13.5	-	-



**WARNING:** Use only with nonflammable liquids compatible with pump component materials and in nonflammable/non-explosive atmospheres.

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