

Pump Performance Datasheet

Customer	:	Quote Number / ID	: 596697
Customer ref. / PO	:	Model	: NBS 040-095-2P
Tag Number	: 001	Stages	: 1
Service	:	Based on curve number	: 040-095-2P_Std
Quantity	: 1	Basic model number	: -
		Date last saved	: 05/12/2022 8:57 AM

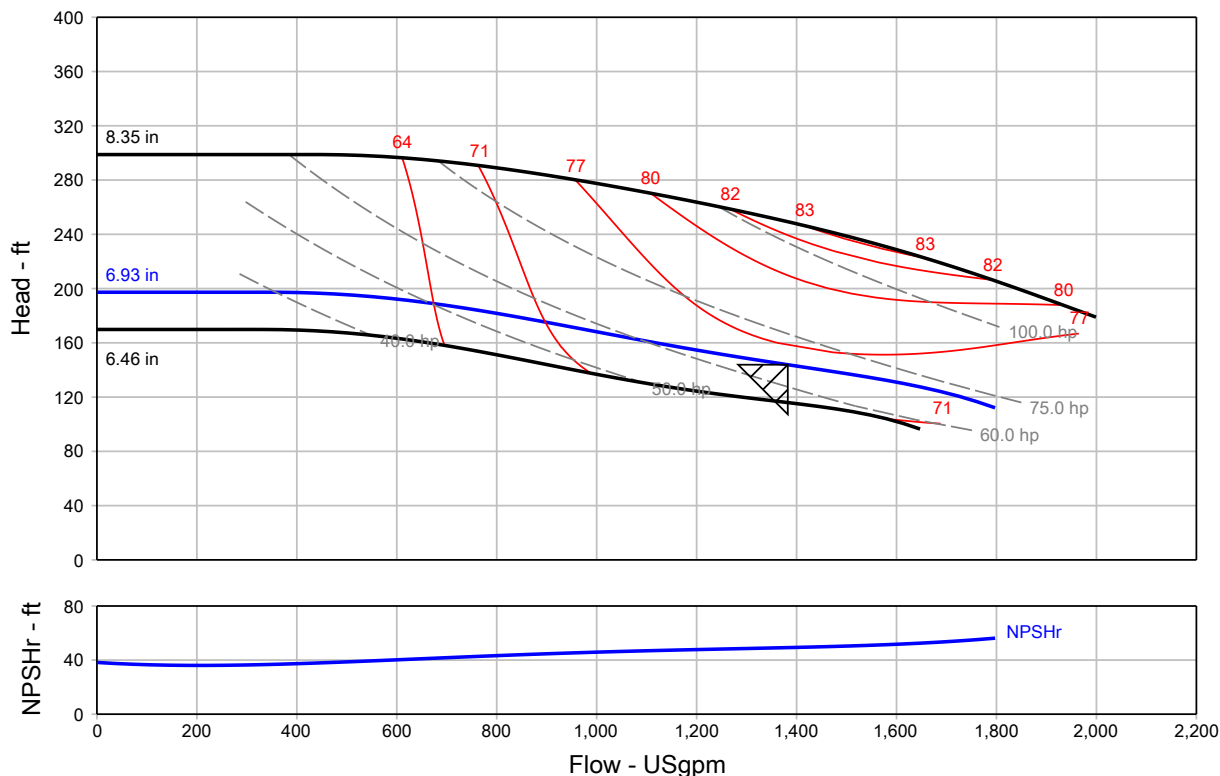
Operating Conditions		Liquid	
Flow, rated	: 1,382.4 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 143.9 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 143.9 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

Performance		Material	
Speed, rated	: 3540 rpm	Material selected	: Cast iron / 125 Class

Impeller diameter, rated	: 6.93 in	Pressure Data	
Impeller diameter, maximum	: 8.35 in	Maximum working pressure	: 85.39 psi.g
Impeller diameter, minimum	: 6.46 in	Maximum allowable working pressure	: 175.0 psi.g
Efficiency	: 75.91 %	Maximum allowable suction pressure	: 130.0 psi.g
NPSH required / margin required	: 49.22 / 0.00 ft	Hydrostatic test pressure	: 263.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 45 / 166 Metric units		
MCSF	: 133.4 USgpm		

Head, maximum, rated diameter	: 197.3 ft	Driver & Power Data (@Max density)	
Head rise to shutoff	: 37.13 %	Motor sizing specification	: Max power (non-overloading)
Flow, best eff. point	: 1,382.4 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 100.00 %	Service factor	: 1.15 (used)
Diameter ratio (rated / max)	: 82.99 %	Power, hydraulic	: 50.21 hp
Head ratio (rated dia / max dia)	: 57.72 %	Rated power (based on duty point)	: 66.14 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Max power (non-overloading)	: 71.50 hp
Selection status	: Acceptable	Nameplate motor rating	: 75.00 hp / 55.93 kW

Energy Indexes	
PEI (CL)	: 0.96
ER (CL)	: 4



Construction Datasheet

Project name	Default	Tag Number	001
Consulting engineer		Service	
Customer		Model	NBS 040-095-2P
Customer ref. / PO		Quantity	1
Quote Number / ID	596697	Quoted By (Sales Office)	PFC EQUIPMENT INC
Date last saved	05/12/2022 8:57 AM	Quoted By (Sales Engineer)	Kelly Kresa

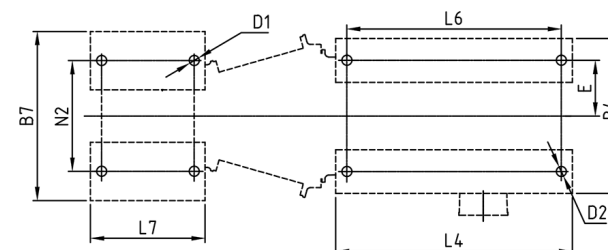
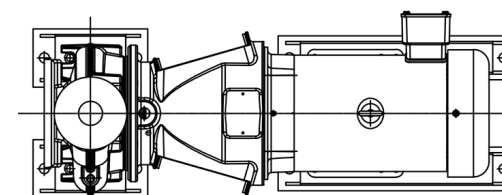
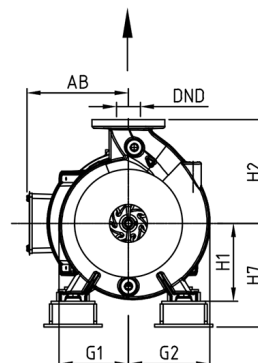
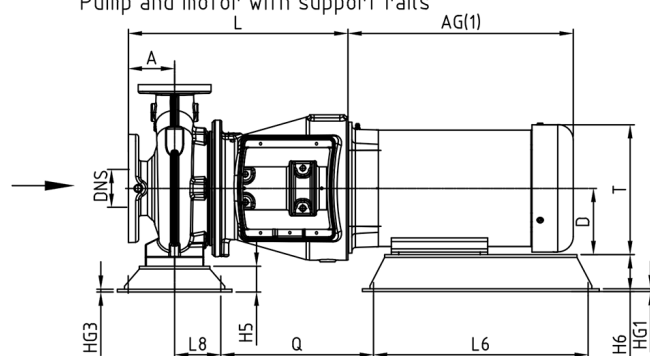
Construction Code : NBS 040-095/6.93AASG6S2ESBQQEUX2

Construction		Motor Information	
Product Family	NBS_Std	Manufacturer	Baldor
Suction Size	5 in.	Frame Size	365TSC
Discharge Size	4 in.	Power	75 HP
Flange Rating	Class 125	RPM	3600
Orientation	Horizontal	Enclosure	TEFC
Rotation	Clockwise	Operating Power Supply	230/460/3/60
Pump Housing	Cast Iron, ASTM A48 - Class 35	Efficiency	Premium
O-Ring	EPDM	Service Factor	1.15
Plug	Galvanized	Motor Application	General Purpose
Impeller	Stainless Steel, AISI-304 / EN 1.430	Weight (Approx.)	
Impeller Nut	Stainless Steel, AISI-304	Pump	335.0 lb
Shaft	Stainless Steel, AISI 420	Support Rail	74.00 lb
Cover	Ductile Cast Iron, ASTM 70-50-05	Base Plate	-
Seal Type	Rubber bellows seal	Driver	804.0 lb
Shaft Seal	BQQE - Silicon carbide / Silicon carbide / EPDM	Estimated Shipping Gross Weight	1,213.0 lb
Seal Cap	Ductile Cast Iron, ASTM 70-50-05		
Motor Stool	Gray Cast Iron, ASTM Class 30		
Recirculation Line	None		
Coupling	Rigid, Axial Split Coupling (aluminum)		
Support Rail	Support Rail		

General Arrangement

Project name	: Default	Tag Number	: 001
Consulting engineer	:	Service	:
Customer	:	Model	: NBS 040-095-2P
Customer ref. / PO	:	Quantity of pumps	: 1
Quote Number / ID	: 596697	Quoted By (Sales Office)	: PFC EQUIPMENT INC
Date last saved	: 05/12/2022 8:57 AM	Quoted By (Sales Engineer)	: Kelly Kresa

Mounting design C
Centre-line outlet
Pump and motor with support rails

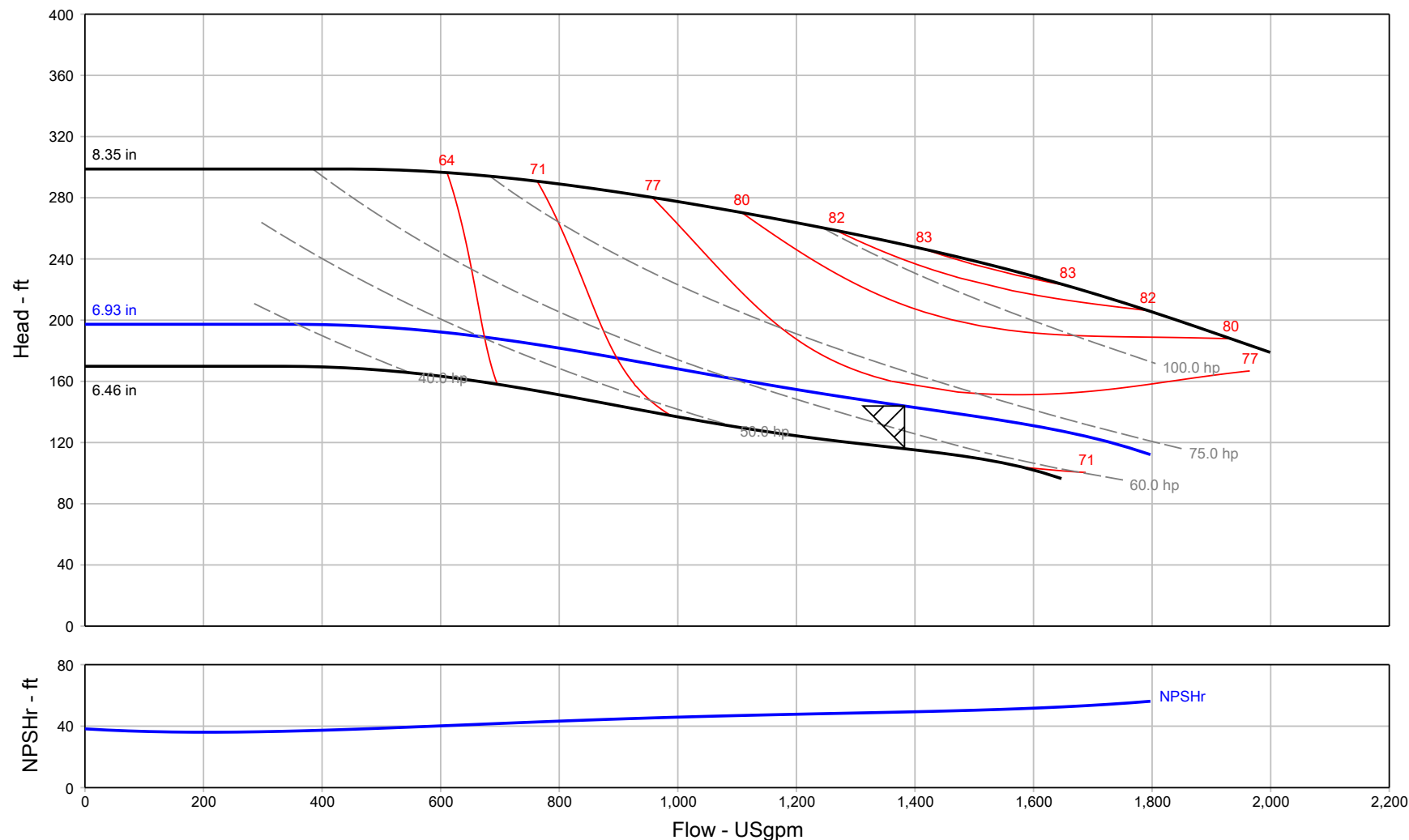


(1) This dimension is based on an AG max motor dimension

NOT FOR CONSTRUCTION, UNLESS CERTIFIED AND REFERENCED ON ORDER

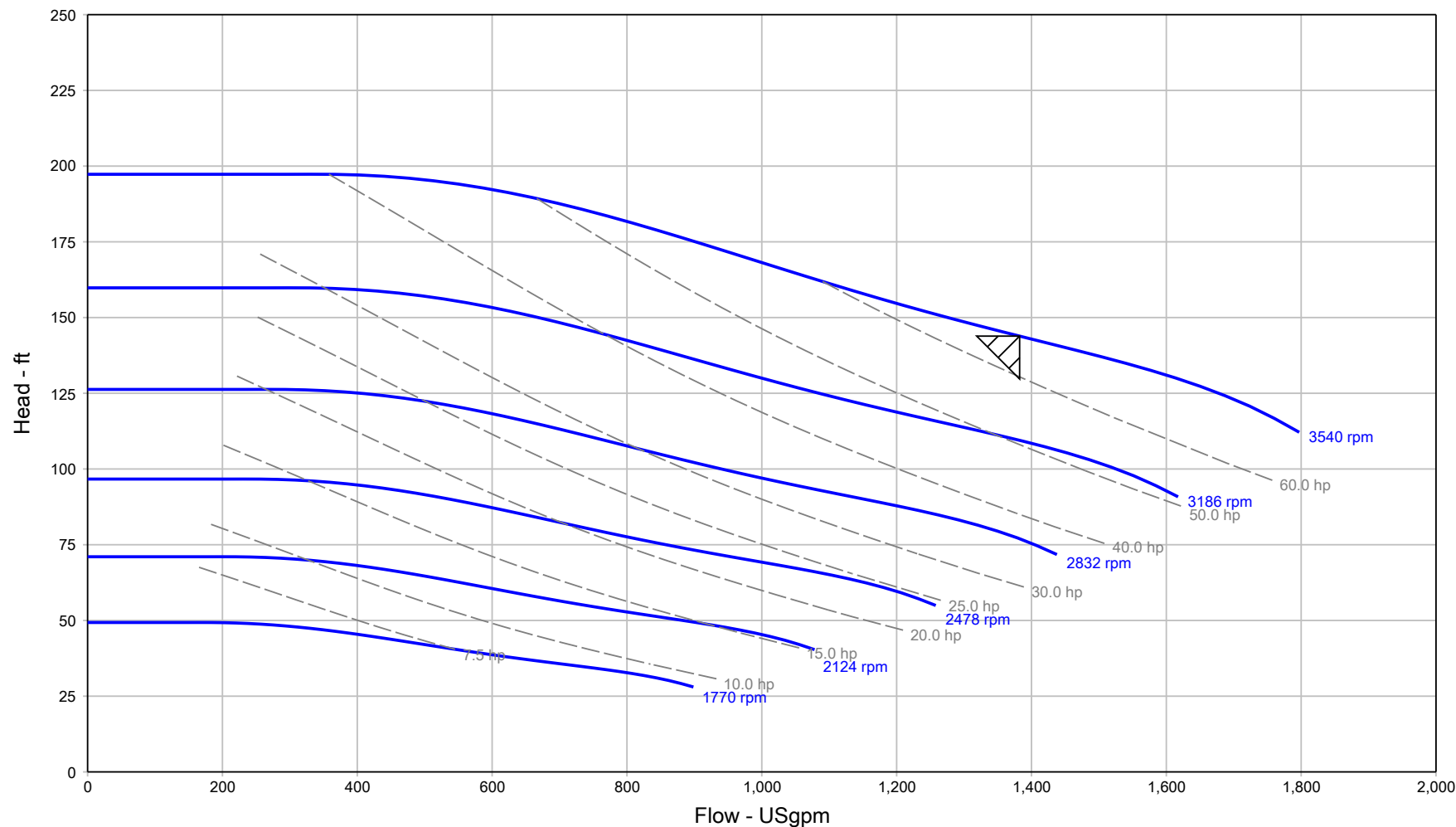
Units	Frame	DNS	DND	Class	A	AB	AG	B4	B7	D	D1	D2	E	G1	G2	H1	H2	H5	H6	H7	HG1	HG3	L	L4	L6	L7	L8	N2	Q	T	Weight
inches	365TSC	5	4	125	5.50	18.06	28.00	16.95	16.34	9.00	0.69	0.69	7.00	7.11	8.91	9.00	11.00	1.00	1.00	10.00	0.50	0.50	19.04	24.50	23.00	10.50	4.50	12.40	12.33	18.50	1,213.0
Conditions of Service										Motor Data																					
Flow: 1,382.4 USgpm				Fluid: Cold Water				HP: 75				Encl: TEFC				Phase: 3				Efficiency: Premium											
TDH: 143.9 ft				Temp.: 68.00 deg F				RPM: 3540 rpm				Hz: 60				Voltage: 230/460						S.F.: 1.15									

Pump Performance Curve



Project name	: Default	Tag Number	: 001	Flow, rated	: 1,382.4 USgpm
Consulting engineer	:	Service	:	Differential head / pressure, rated	: 143.9 ft
Customer	:	Model	: NBS 040-095-2P	Rated power (based on duty point)	: 66.14 hp
Customer ref. / PO	:	Quantity	: 1	Max power (non-overloading)	: 71.50 hp
Quote Number / ID	: 596697	Quoted By (Sales Office)	: PFC EQUIPMENT INC	Efficiency	: 75.91 %
Date last saved	: 05/12/2022 8:57 AM	Quoted By (Sales Engineer)	: Kelly Kresa	Impeller diameter, rated	: 6.93 in
Based on curve number	: 040-095-2P_Std	Stages	: 1	PEI (CL)	: 0.96
		Speed, rated	: 3540 rpm	ER (CL)	: 4

Multi-Speed Performance Curve



Project name	: Default	Tag Number	: 001	Speed, rated	: 3540 rpm
Consulting engineer	:	Service	:	Flow, rated	: 1,382.4 USgpm
Customer	:	Model	: NBS 040-095-2P	Differential head / pressure, rated	: 143.9 ft
Customer ref. / PO	:	Quantity	: 1	Fluid density, rated / max	: 1.000 / 1.000 SG
Quote Number / ID	: 596697	Quoted By (Sales Office)	: PFC EQUIPMENT INC	Viscosity	: 1.00 cP
Date last saved	: 05/12/2022 8:57 AM	Quoted By (Sales Engineer)	: Kelly Kresa	Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
		Stages	: 1	Based on curve number	: 040-095-2P_Std