GOULDS WATER TECHNOLOGY
a xylem brand

Customer	Date 23.03.2020
Contact	Project
Phone number	Project no.
Email	

Technical Data

125SV50CGT4C60

Operating data

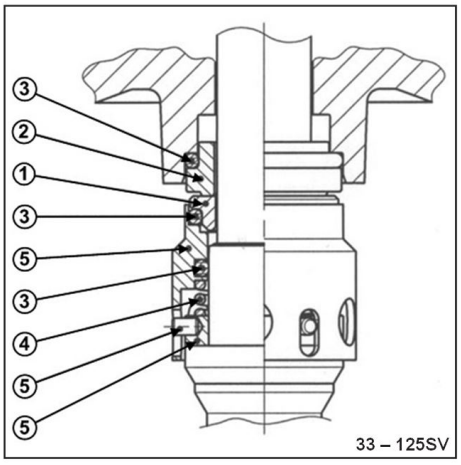
Pump type		Multi-Stage Pumps	Fluid		Water
No. of pumps / Reserve		1 / 0	Operating temperature t A	°F	39.2
Nominal flow	US g.p.m.	519.1	pH-value at t A		7
Nominal head	ft	452.1	Density at t A	lb/ft³	62.4
Static head	ft	0	Kin. viscosity at t A	ft²/s	1.689E-5
Inlet pressure	psi	0	Vapor pressure at t A	psi	14.5
Environmental temperature	°F	68	Solids		0
Available system NPSH	ft	0	Altitude	ft	0

Pump data

Make	Goulds Water Technology			Nominal	US g.p.m.	519.8	(519.8)
Speed	rpm	3500	Flow	Max-	US g.p.m.	725	
No. of stages		5		Min-	US g.p.m.		
Max. working pressure	psi	278.7		Nominal	ft	453.5	
Head H(Q=0)	ft	640	Head	at Qmax	ft	336.9	
Weight	lb	1386		at Qmin	ft	642.6	
Efficiency	%	74.61	Shaft power		hp	78.6	(78.6)
NPSH 3%	ft	22.1	Max. shaft power		hp	87.1	

Shaft Seal

Single Seal	Xylem
Mechanical Seals	
1 - Rotating Face	Carbon
2 - Stationary Face	Silicon Carbide Graphite Filled
3 - Elastomers	Viton
4 - Spring	316SS
5 - Metal Components	316SS



33 – 125SV

Motor data

Manufacturer	Baldor	Electric voltage	230 V	Speed	3500 rpm	Insulation class	F
Specific design	3ph TPE			Frame size	365TSC	Colour	RAL 5010
Type	230/460V 365TSC (X20A32F5BP2S)			Degree of protection	TEPE		
Rated power	75 hp	Electric current	161 A				

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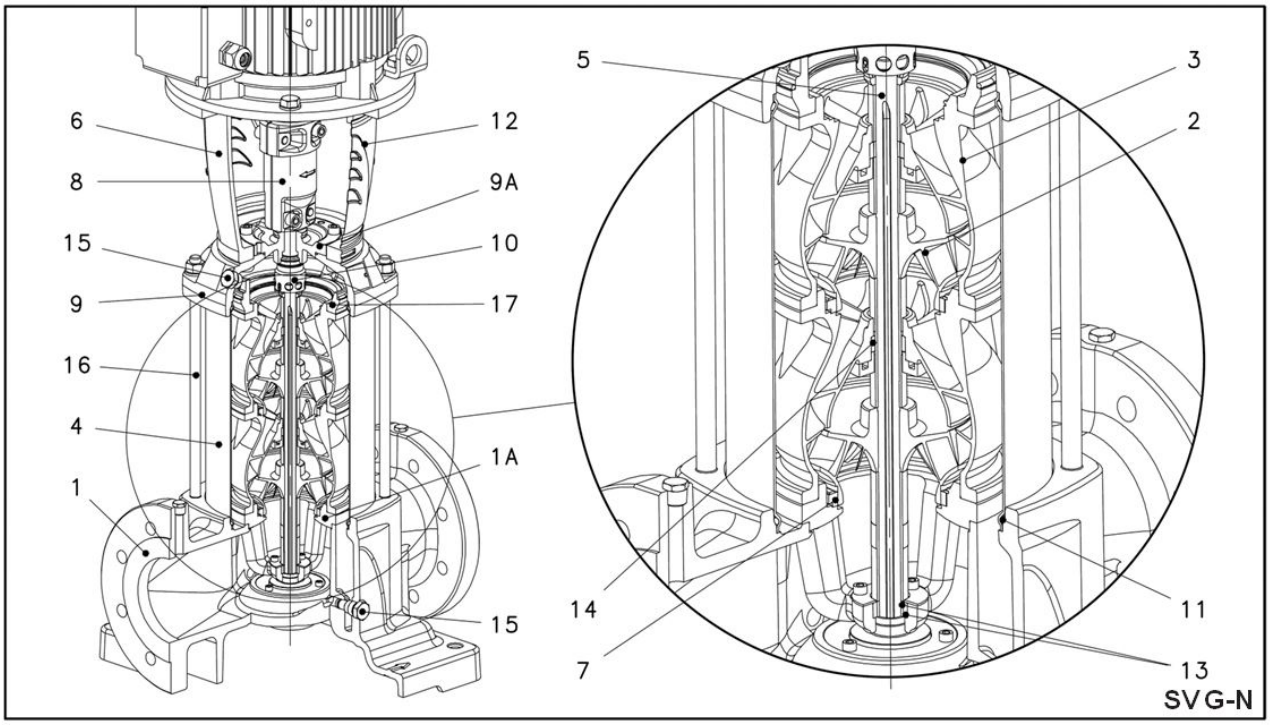
Construction Data

Pump Materials

1 - Pump Body	Cast Iron (ASTM Class 35/40B)
2 - Impeller	Stainless Steel (AISI 304)
3 - Diffuser	Stainless Steel (AISI 304)
4 - Casing	Stainless Steel (AISI 316L)
5 - Shaft	Duplex Stainless Steel (UNS S 31803)
6 - Adapter (50HP and higher)	(ASTM Class A536)
7 - Wear Ring	PPS
8 - Coupling (50HP and higher)	N/A
9 - Upper Head	Cast Iron (ASTM Class 35/40B)
9A - Seal Housing	Cast Iron (ASTM Class 35/40B)
10 - Mechanical Seal	Refer Mechanical Seals
11 - Elastomers	Refer Mechanical Seals
12 - Coupling Guard	Stainless Steel (AISI 304)
13 - Shaft Sleeve and Bushing	Tungsten carbide
14 - Bushing for Diffuser	Carbon
15 - Fill/Drain Plugs	Stainless Steel (AISI 316)
16 - Tie Rods	Carbon Steel / Zinc Plated (A29 Gr.1045)



Remarks:

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Tender Hydraulic

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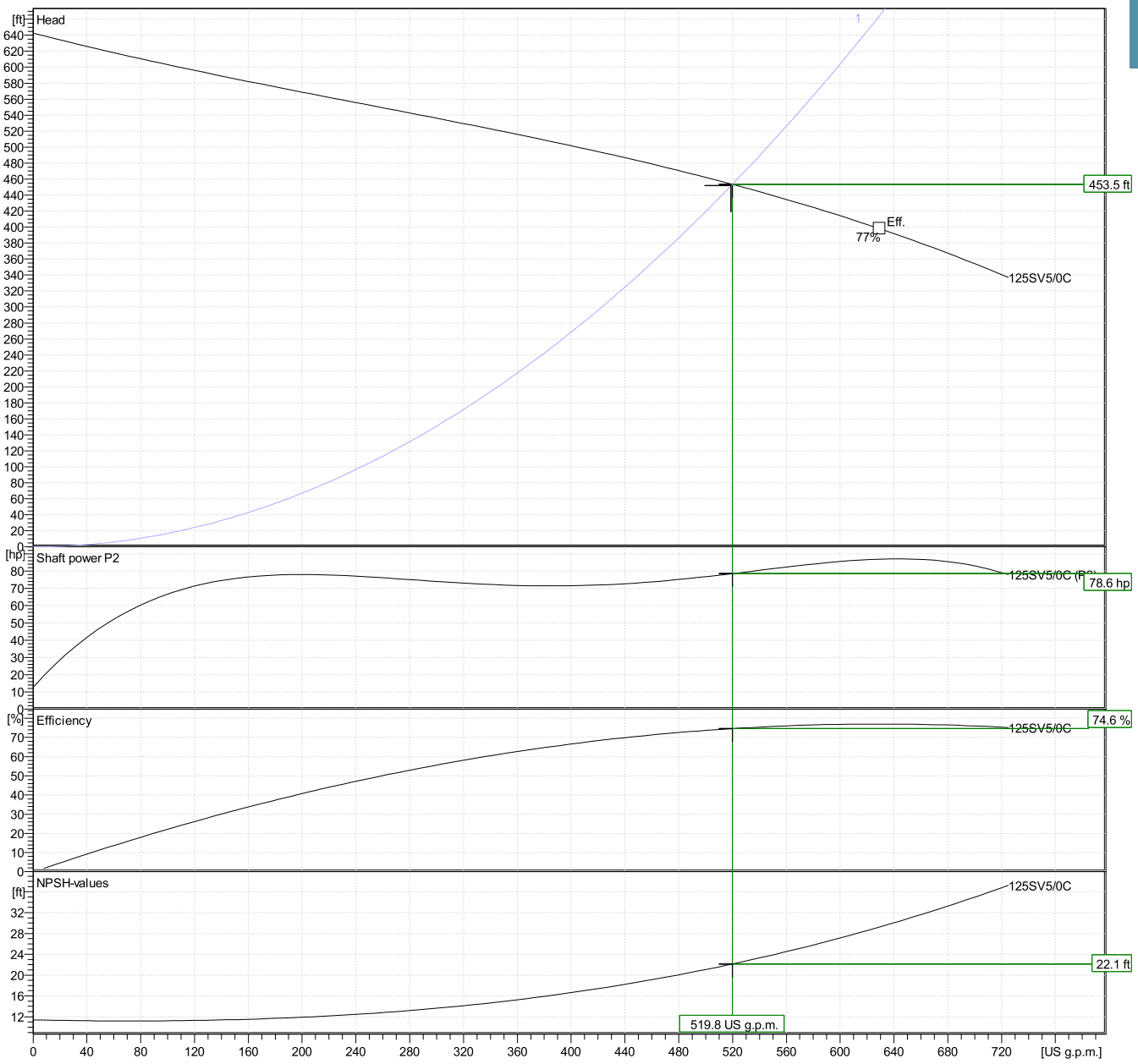
Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	519 US g.p.m.			Impeller R	"
Head	452 ft	Flow	520 US g.p.m.	Frequency	60 Hz
Static head	0 ft	Head	453 ft	Speed	3500 rpm

Power datas referced to:
Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s
Performance according to ISO 9906 - Annex A



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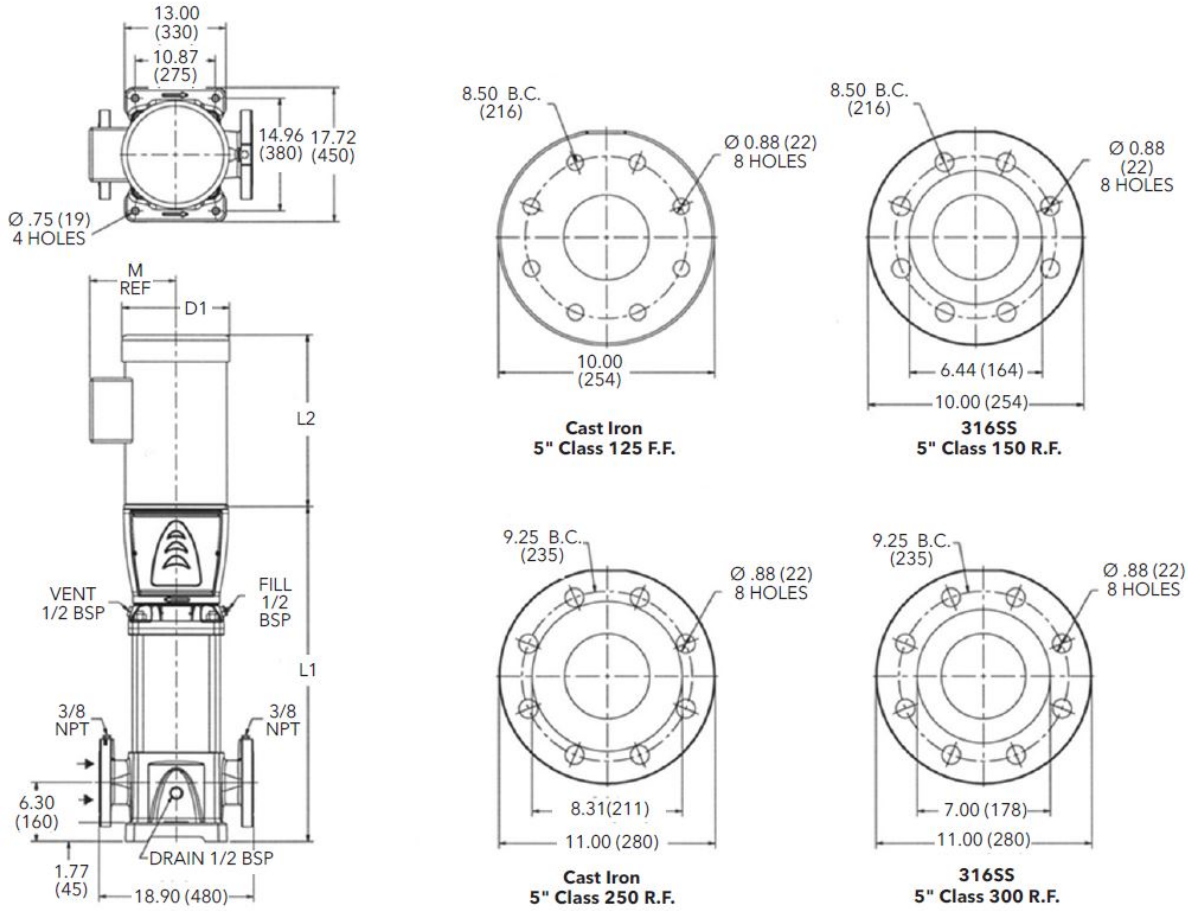
Drawing



All dimensions are in inches (mm).

Dimensions inch

D1 max D2 L1 L2 M.Ref NEMA Frame	$20^{1}/_{4}$ $13^{1}/_{4}$ $52^{1}/_{4}$ $30^{5}/_{16}$ $18^{13}/_{16}$ 365TSC					Weight 1386 lb