Telfa AB
Postadress: Box 1011, 573 28 Tranås
Besöksadress: Fredriksbergsgatan 2, 573 92 Tranås
075-24 24 450 | info@telfa.se | www.telfa.se

P600

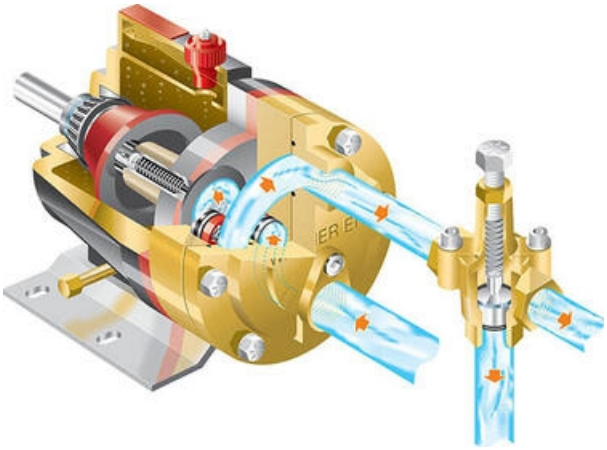
Doseringspump

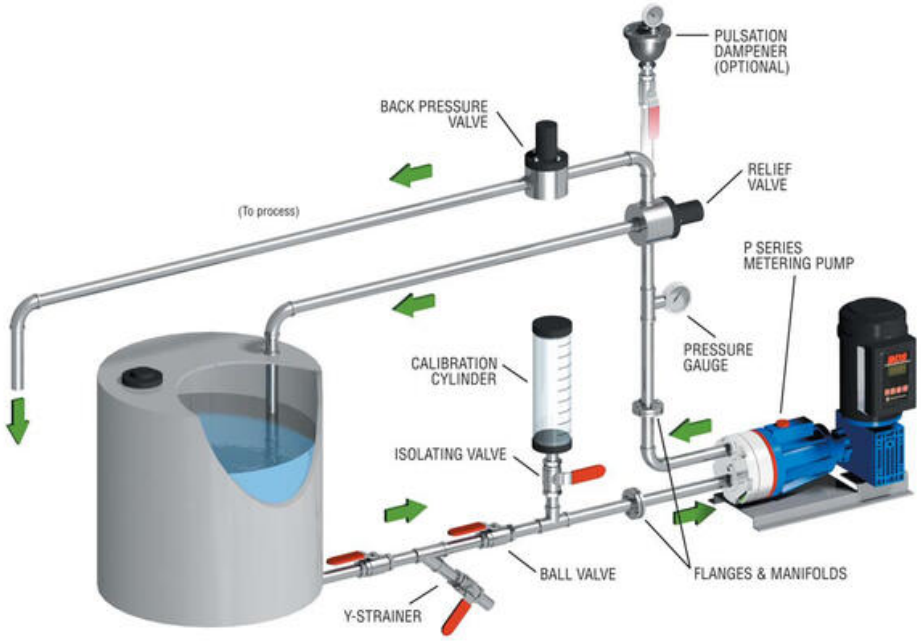
P600MSETTB07C
PUMP WITH GEARBOX AND BASEPLATE

- Flöde 15 - 3300 l/h
- Tryck max. 70 bar
- Plast eller metallutförande
- Tätningslös och klarar torrkörning

Produktinformation

Wanner HydraCell är en serie mycket robusta membranpumpar speciellt lämpade för dosering även vid höga tryck och svåra pumpmedier, som också kan vara slitande.
Pumparna har ingen genomgående axel med tätningar och mediet kommer aldrig i kontakt med mekanismen.
Membranen är avlastade med jämnt tryck över hela ytan, vilket ger dem mycket lång livslängd.
HydraCell-pumparna som arbetar enligt förträngningsprincipen, är självsugande, energisnåla och torrkörningssäkra.
Hydra-Cell pumparna möter de flesta och överträffar flara av kraven i standarden för doseringspumpar API 675.
De finns i många olika materialkombinationer och går även att få i ATEX-utförande för explosionsfarlig miljö.





Exempel på installation

Pumphus	Mässing, Gjutjärn, 316L, Hastelloy C, Polypropylen, Kynar
Membran O-ringar	Aflas, EPDM, FKM, PTFE, Neoprene, Buna-N
Ventilsäten	Nitronic 50, Hastelloy C, Keramik
Ventiler	Nitronic 50, Hastelloy C, Keramik
Fjäder	Elgiloy, Hastelloy C
Fjäderhållare	Polypropylen, PVDF, Hastelloy C
Flöde	115 - 3300 l/h
Tryck metallutförande	Max. 70 bar
Tryck plastutförande	Polypropylen Max. 17 bar, Kynar Max. 24 bar
Inloppstryck	Max. 17 bar
Temperatur*	Max. +120 °C (Beroende på materialval m.m.)*
Partikelstorlek	Max. 0,8 mm
Viskositet**	Max. 4000 cP (Beroende på installation och varvtal)**
ATEX***	EEx II 2G k ia IIB T4 (max. mediatemp. 90 °C, omgivningstemp - 10 till 40 °C) EEx II 3G k IIC T4 (max. mediatemp. 90 °C, omgivningstemp - 10 till 40 °C)
Kel-Cell	Nej
Anslutningar (In/Ut)	1/2" BSPT / 3/8" BSPT (NPT eller flänsar på förfrågan)
Rotationsriktning	Valfri
Oljevolym hydrauldel	ca. 3,1 l (Oljenivån skall vara ca. 1 - 2 cm under helt fylld hydrauldel)
Vikt metallutförande	64 kg
Vikt plastutförande	48 kg

* För applikationer där temperaturen går under +10 eller över +80°C kontakta oss.
** Vid viskositeter över 500 cP kontakta oss.

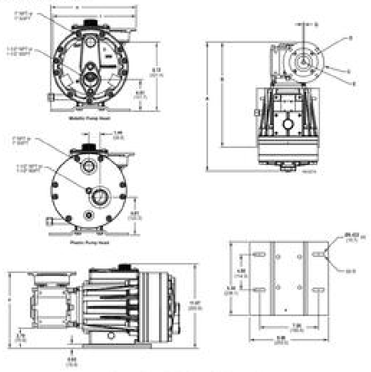
*** För applikationer i explosionsfarlig miljö kontakta oss.
;

Teknisk data

Flöde max	1120 l/h
Tryck max	69 bar
Systemtryck max	17 bar
Anslutning inlopp	1 1/2" BSPT
Anslutning utlopp	1" BSPT
Material Bottenplatta	Epoxylackerat stål
Material Fjäderhållare	Hastelloy C
Material Membran	EPDM
Material Pumphus	SS 316L
Material Ventiler	Hastelloy C
Material Ventilfjädrar	Hastelloy C
Material Ventilsäten	Hastelloy C
Axeldimension	Hålaxel 19 mm
Rotation	Valfri
Utväxling	7,5:1 - IEC 80-B5
Temperaturområde till	120 °C
Viskositet max	4000 cP
Olja	Livsmedelsolja H1 (K)
Oljevolym Hydrauldel	3,1 l
1098_Particle size (mm)	Max. 0,8mm
Vikt	66 kg

P600 Dimensions

P600 Models - F63

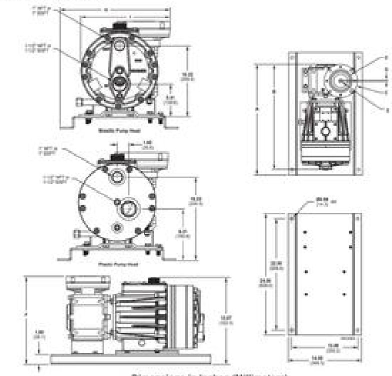


Dimensions in Inches (Millimeters)

Input Frame Size	A		B	C	D	E	F	G (Square Key)	H	I
	Metallic Pump Head	Plastic Pump Head								
NEMA 56C	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 143/145 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 182/184 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 63 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 71 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 80 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 90 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

P600 Dimensions (Cont'd)

P600 Models - F75

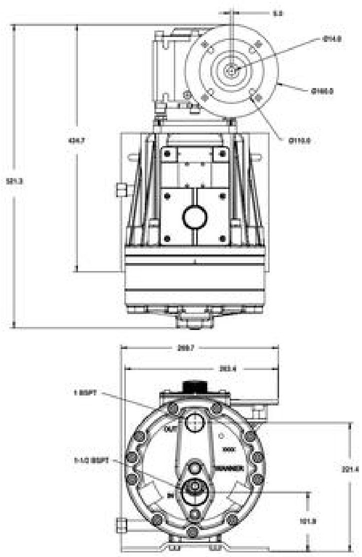


Dimensions in Inches (Millimeters)

Input Frame Size	A	B		C	D	E	F	G (Square Key)	H	I
		Metallic Pump Head	Plastic Pump Head							
NEMA 56C	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 143/145 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 182/184 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 71 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 80 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 90 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 100/112 B14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Representative Drawings (mm)

Metallic Pump Heads



Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors

L/hr Maximum Flow at Designated Pressure

L/hr All Pumps 7 Bar	L/hr All Pumps 17 Bar	L/hr Metallic Pump Heads Only 34 Bar	L/hr Metallic Pump Heads Only 69 Bar	Pump RPM	Gear Ratio	Motor RPM
115.1	113.9	111.1	104.9	25	60:1	1500
138.5	137.2	134.0	127.3	30	50:1	
173.5	172.0	168.4	161.4	37.5	40:1	
232.0	230.2	225.8	216.9	50	30:1	
278.9	276.7	271.7	261.2	60	25:1	
349.2	346.5	340.5	327.8	75	20:1	
466.3	462.7	455.2	438.6	100	15:1	
700.5	695.3	684.7	660.4	150	10:1	
934.7	927.9	914.1	882.2	200	7.5:1	
1403	1393	1373	1326	300	5:1	
1872	1858	1832	N/A	400	7.5:1	3000
2808	2788	N/A	N/A	600	5:1	

Required Motor kW

0.18 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0

For 10:1 Turndown, Self-cooled Motors

L/hr Maximum Flow at Designated Pressure

L/hr All Pumps 7 Bar	L/hr All Pumps 17 Bar	L/hr Metallic Pump Heads Only 34 Bar	L/hr Metallic Pump Heads Only 69 Bar	Pump RPM	Gear Ratio	Motor RPM
115.1	113.9	111.1	104.9	25	60:1	1500
138.5	137.2	134.0	127.3	30	50:1	
173.5	172.0	168.4	161.4	37.5	40:1	
232.0	230.2	225.8	216.9	50	30:1	
278.9	276.7	271.7	261.2	60	25:1	
349.2	346.5	340.5	327.8	75	20:1	
466.3	462.7	455.2	438.6	100	15:1	
700.5	695.3	684.7	N/A	150	10:1	
934.7	927.9	914.1	N/A	200	7.5:1	
1403	1393	1373	N/A	300	5:1	
1872	1858	N/A	N/A	400	7.5:1	3000
2808	N/A	N/A	N/A	600	5:1	

Required Motor kW

0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0

P600 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

All Pump Heads (gph) 100 psi	All Pump Heads (gph) 250 psi	Metallic Pump Heads (gph) 500 psi	Metallic Pump Heads (gph) 1000 psi	Pump rpm	Gear Ratio	Motor rpm
36.49 (½)	36.12 (¾)	35.21 (1)	33.25 (2)	30	60:1	1800
43.90 (½)	43.48 (¾)	42.49 (1)	40.35 (2)	36	50:1	
55.00 (½)	54.53 (¾)	53.39 (1)	51.17 (2)	45	40:1	
73.56 (½)	72.97 (¾)	71.58 (1½)	68.75 (3)	60	30:1	
88.41 (½)	87.71 (¾)	86.12 (1½)	82.81 (3)	72	25:1	
110.7 (¾)	109.8 (1)	107.9 (1½)	103.9 (3)	90	20:1	
147.8 (¾)	146.7 (1)	144.3 (2)	139.1 (5)	120	15:1	
222.1 (1)	220.4 (1½)	217.0 (3)	209.4 (5)	180	10:1	
296.3 (1)	294.1 (2)	289.6 (3)	279.7 (5)	240	7.5:1	
444.8 (1½)	441.6 (3)	435.2 (5)	420.3 (7½)	360	5:1	
593.3 (2)	589.0 (3)	580.7 (7½)	560.9 (15)	480	7.5:1	3600
890.3 (3)	883.9 (5)	871.6 (10)	842.1 (15)	720	5:1	

*Capacity data shown is for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.

( ) Required Motor hp

Performance Maximum Flow at Designated Pressure - Metric *

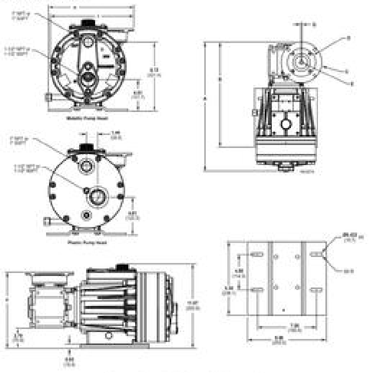
All Pump Heads (lph) 7 bar	All Pump Heads (lph) 17 bar	Metallic Pump Heads (lph) 34 bar	Metallic Pump Heads (lph) 69 bar	Pump rpm	Gear Ratio	Motor rpm
115.1 (0.37)	113.9 (0.75)	111.1 (1.5)	104.9 (3)	25	60:1	1500
138.5 (0.37)	137.2 (0.75)	134.0 (1.5)	127.3 (3)	30	50:1	
173.5 (0.37)	172.0 (0.75)	168.4 (1.5)	161.4 (3)	37.5	40:1	
232.0 (0.37)	230.2 (0.75)	225.8 (1.5)	216.9 (3)	50	30:1	
278.9 (0.37)	276.7 (0.75)	271.7 (1.5)	261.2 (3)	60	25:1	
349.2 (0.55)	346.5 (0.75)	340.5 (1.5)	327.8 (3)	75	20:1	
466.3 (0.75)	462.7 (1.1)	455.2 (2.2)	438.6 (4)	100	15:1	
700.5 (0.75)	695.3 (1.5)	684.7 (3)	660.4 (5.5)	150	10:1	
934.7 (1.1)	927.9 (1.5)	914.1 (3)	882.2 (5.5)	200	7.5:1	
1403 (1.5)	1393 (2.2)	1373 (4)	1326 (7.5)	300	5:1	
1872 (1.5)	1858 (4)	1832 (5.5)	1769 (7.5)	400	7.5:1	3000
2808 (3.0)	2788 (4)	2750 (5.5)	2656 (7.5)	600	5:1	

*Capacity data shown is for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.

( ) Required Motor kW

P600 Dimensions

P600 Models - F63

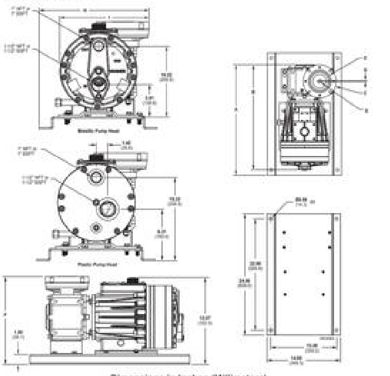


Dimensions in Inches (Millimeters)

Input Frame Size	A		B	C	D	E	F	G (Square Key)	H	I
	Metallic Pump Head	Plastic Pump Head								
NEMA 56C	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 143/145 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 182/184 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 63 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 71 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 80 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 90 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

P600 Dimensions (Cont'd)

P600 Models - F75

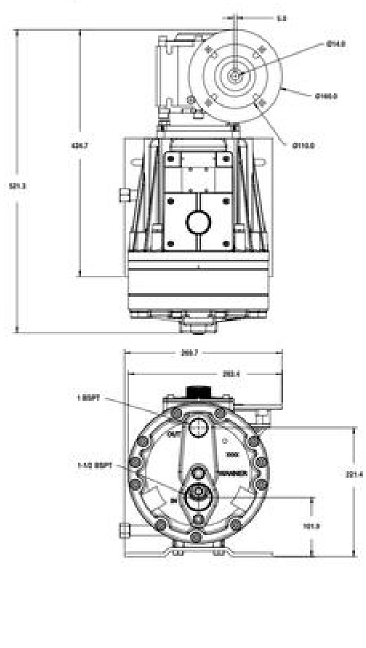


Dimensions in Inches (Millimeters)

Input Frame Size	A	B		C	D	E	F	G (Square Key)	H	I
		Metallic Pump Head	Plastic Pump Head							
NEMA 56C	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 143/145 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NEMA 182/184 TC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 71 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 80 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 90 B5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IEC 100/112 B14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Representative Drawings (mm)

Metallic Pump Heads



Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors

L/hr Maximum Flow at Designated Pressure

L/hr All Pumps 7 Bar	L/hr All Pumps 17 Bar	L/hr Metallic Pump Heads Only 34 Bar	L/hr Metallic Pump Heads Only 69 Bar	Pump RPM	Gear Ratio	Motor RPM
115.1	113.9	111.1	104.9	25	60:1	1500
138.5	137.2	134.0	127.3	30	50:1	
173.5	172.0	168.4	161.4	37.5	40:1	
232.0	230.2	225.8	216.9	50	30:1	
278.9	276.7	271.7	261.2	60	25:1	
349.2	346.5	340.5	327.8	75	20:1	
466.3	462.7	455.2	438.6	100	15:1	
700.5	695.3	684.7	660.4	150	10:1	
934.7	927.9	914.1	882.2	200	7.5:1	
1403	1393	1373	1326	300	5:1	
1872	1858	1832	N/A	400	7.5:1	3000
2808	2788	N/A	N/A	600	5:1	

Required Motor kW

0.18 | 0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0

For 10:1 Turndown, Self-cooled Motors

L/hr Maximum Flow at Designated Pressure

L/hr All Pumps 7 Bar	L/hr All Pumps 17 Bar	L/hr Metallic Pump Heads Only 34 Bar	L/hr Metallic Pump Heads Only 69 Bar	Pump RPM	Gear Ratio	Motor RPM
115.1	113.9	111.1	104.9	25	60:1	1500
138.5	137.2	134.0	127.3	30	50:1	
173.5	172.0	168.4	161.4	37.5	40:1	
232.0	230.2	225.8	216.9	50	30:1	
278.9	276.7	271.7	261.2	60	25:1	
349.2	346.5	340.5	327.8	75	20:1	
466.3	462.7	455.2	438.6	100	15:1	
700.5	695.3	684.7	N/A	150	10:1	
934.7	927.9	914.1	N/A	200	7.5:1	
1403	1393	1373	N/A	300	5:1	
1872	1858	N/A	N/A	400	7.5:1	3000
2808	N/A	N/A	N/A	600	5:1	

Required Motor kW

0.37 | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0

P600 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

All Pump Heads (gph)		Metallic Pump Heads (gph)		Pump	Gear	Motor
100 psi	200 psi	500 psi	1000 psi	rpm	Ratio	rpm
36.49 [1lb]	36.12 [1lb]	35.21 [1]	33.25 [2]	30	60:1	1800
43.90 [1lb]	43.46 [1lb]	42.49 [1]	40.33 [2]	36	50:1	
55.60 [1lb]	54.53 [1lb]	53.39 [2]	51.17 [2]	45	40:1	
73.96 [1lb]	72.97 [1lb]	71.58 [1lb]	68.75 [3]	60	30:1	
88.41 [1lb]	87.77 [1lb]	86.12 [1lb]	82.97 [3]	72	25:1	
110.7 [2lb]	109.8 [1lb]	107.9 [1lb]	103.9 [3]	90	20:1	
147.8 [2lb]	146.7 [1lb]	144.3 [2lb]	139.1 [4lb]	120	15:1	
222.1 [3]	220.4 [2lb]	217.0 [3lb]	209.4 [6]	180	10:1	
296.3 [3]	294.1 [2]	289.8 [3]	279.7 [8]	240	7.5:1	
444.8 [5lb]	441.6 [3]	435.2 [5]	420.3 [7lb]	360	5:1	
593.3 [2]	589.0 [3]	580.7 [5lb]	560.9 [10]	480	7.5:1	3600
890.3 [3]	883.9 [5]	871.6 [10]	842.1 [15]	720	5:1	

**Capacity data shown is for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.*
[ ] Required Motor hp

Performance Maximum Flow at Designated Pressure - Metric *

All Pump Heads (lph)		Metallic Pump Heads (lph)		Pump	Gear	Motor
7 bar	17 bar	34 bar	69 bar	rpm	Ratio	rpm
115.1 [0.37]	113.9 [0.75]	111.1 [1.5]	104.9 [3]	25	60:1	1500
138.5 [0.37]	137.2 [0.75]	134.0 [1.5]	127.5 [3]	30	50:1	
173.5 [0.37]	172.0 [0.75]	168.4 [1.5]	161.4 [3]	37.5	40:1	
232.0 [0.37]	230.2 [0.75]	225.8 [1.5]	216.8 [3]	50	30:1	
278.9 [0.37]	276.7 [0.75]	271.7 [1.5]	261.0 [3]	60	25:1	
349.2 [0.55]	346.3 [0.75]	340.5 [1.5]	327.6 [3]	75	20:1	
466.3 [0.75]	462.7 [1.1]	455.2 [2.2]	438.6 [4]	100	15:1	
700.9 [0.75]	695.3 [1.5]	684.7 [3]	660.4 [5.5]	150	10:1	
934.7 [1.1]	927.9 [1.5]	914.1 [3]	882.2 [5.5]	200	7.5:1	
1403 [1.5]	1393 [2.2]	1373 [4]	1326 [7.5]	300	5:1	
1872 [2.2]	1858 [4]	1832 [5.5]	1769 [7.5]	400	7.5:1	3000
2808 [3.7]	2788 [4]	2750 [5.5]	2656 [7.5]	600	5:1	

**Capacity data shown is for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.*
[ ] Required Motor kW