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HYDRA-CELL KALVOPUMPUT P600

Annostelupumppu

P600MSETTB07C
Kalvopumppu P600



- Virtaus 15 - 3300 l/h
- Paine max. 70 bar
- Muovi- ja metallirakenne
- Tiivisteetön rakenne

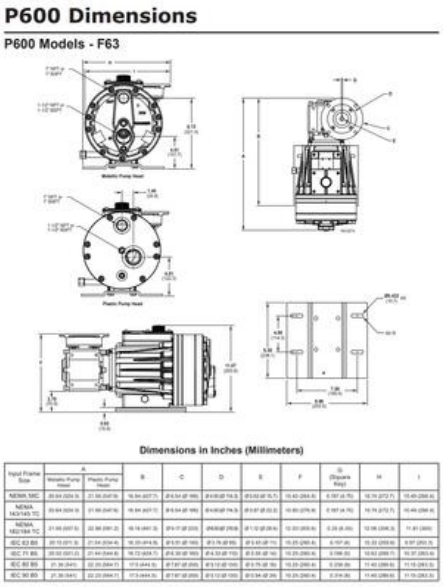
TUOTEKUVAUS

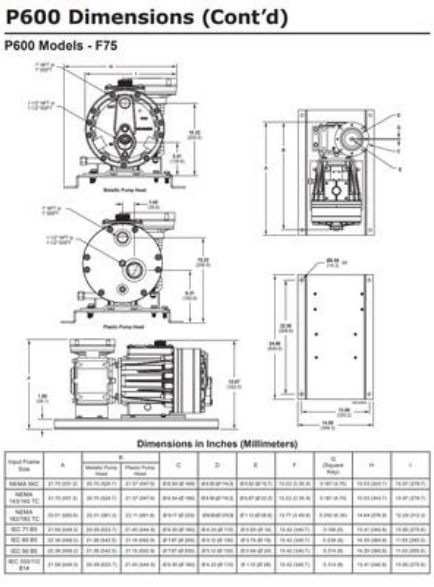
Hydra-Cell Metering Solutions P600 -pumpuissa käytetään kolmea kalvoa yhdessä pumppupäässä. Tämän ainutlaatuisen rakenteen ansiosta Hydra-Cell tuottaa käytännössä "pulssittoman" virtauksen ilman että, on tarvetta käyttää kalliita pulsaationvaimentimia.

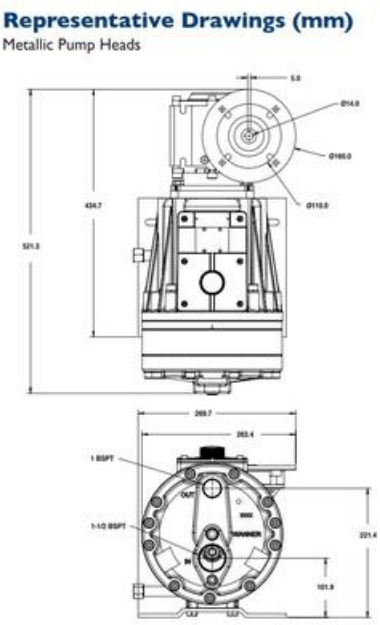
TEKNISET TIEDOT

1098_Particle size (mm)	Max. 0,8mm
Akselimitta	Ontto akseli 19 mm
Hydrauliöljyn määrä	3,1 l
Jousipidikkeen materiaali	Hastelloy C
Kalvon materiaali	EPDM
Liitännän sisääntulo	BSPT 1 1/2"
Liitännän ulostulo	BSPT 1"
Max. järjestelmän paine	17 bar
Max. käyttölämpötila	120 °C
Max. paine	69 bar
Max. virtaus	1120 l/h
Max. viskositeetti	4000 cP
Paino	66 kg
Pohjalevyn materiaali	Epoksi-lakattua terästä
Pumpun materiaali	SS 316L
Pyörimissuunta	Valinnainen
Venttiilien materiaali	Hastelloy C
Venttiilin istukan materiaali	Hastelloy C

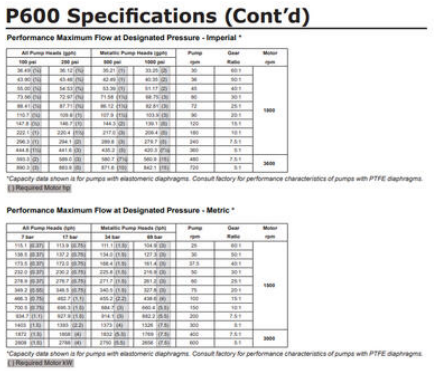
Venttiilin jousen materiaali	Hastelloy C
Välityssuhde	7,5:1 - IEC 80-B5

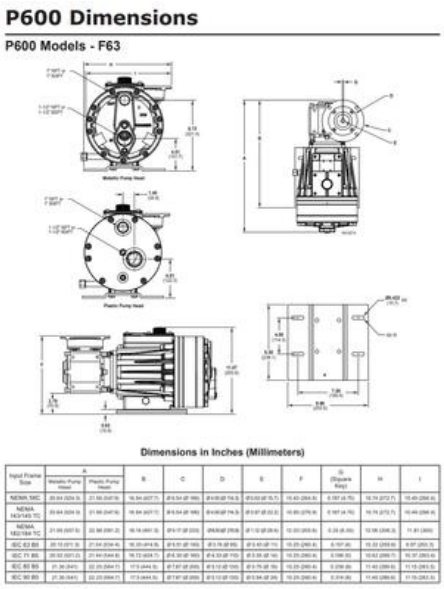






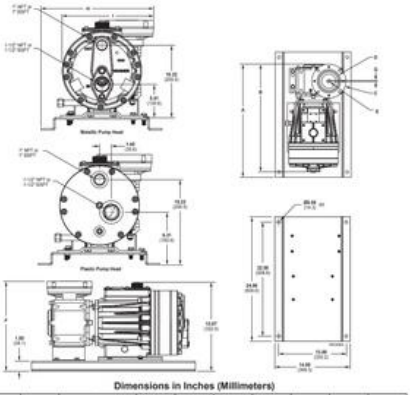






P600 Dimensions (Cont'd)

P600 Models - F75

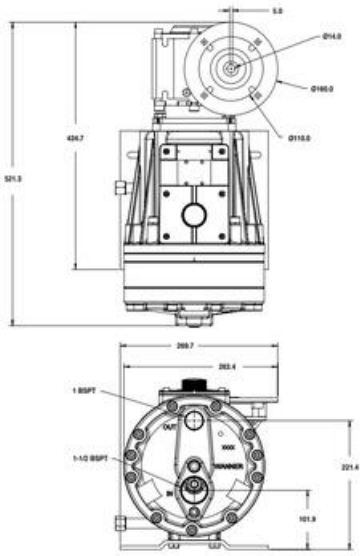


Dimensions in Inches (Millimeters)

Input Frame Size	A	B Metallic Pump Head	B Plastic Pump Head	C	D	E	F	G (Square Keys)	H	I
NEMA 56C	21.70 (551.2)	20.70 (524.7)	21.57 (547.9)	Ø 6.94 (Ø 166)	Ø 6.59 (Ø 14.3)	Ø 5.62 (Ø 10.7)	10.02 (5.36.3)	0.187 (4.75)	12.53 (303.7)	15.97 (279.7)
NEMA 143/145 TC	21.70 (551.2)	20.70 (524.7)	21.57 (547.9)	Ø 6.94 (Ø 166)	Ø 6.59 (Ø 14.3)	Ø 5.67 (Ø 12.2)	10.02 (5.36.3)	0.187 (4.75)	12.53 (303.7)	15.97 (279.7)
NEMA 182/184 TC	23.01 (580.6)	22.01 (557.3)	22.11 (561.6)	Ø 9.17 (Ø 233)	Ø9.69(Ø 378.8)	Ø 1.12 (Ø 28.6)	13.77 (3.49.8)	0.250 (6.35)	14.84 (376.8)	12.29 (312.2)
IEC 71 B5	21.54 (546.5)	20.55 (522.7)	21.45 (544.8)	Ø 6.30 (Ø 160)	Ø 4.34 (Ø 110)	Ø 0.94 (Ø 14)	10.43 (540.7)	0.156 (3)	13.41 (340.6)	15.85 (275.6)
IEC 80 B5	22.56 (572.7)	21.35 (542.5)	21.15 (552.9)	Ø 7.87 (Ø 200)	Ø 5.12 (Ø 130)	Ø 1.75 (Ø 19)	10.43 (540.7)	0.218 (5)	14.29 (362.9)	11.63 (295.5)
IEC 90 B5	22.39 (568.5)	21.35 (542.5)	21.15 (552.9)	Ø 7.87 (Ø 200)	Ø 5.12 (Ø 130)	Ø 1.69 (Ø 24)	10.43 (540.7)	0.314 (8)	14.29 (362.9)	11.63 (295.5)
IEC 100/112 B14	21.54 (546.5)	20.55 (522.7)	21.45 (544.8)	Ø 6.30 (Ø 160)	Ø 4.33 (Ø 110)	Ø 1.10 (Ø 28)	10.43 (540.7)	0.314 (8)	13.41 (340.6)	15.85 (275.6)

Representative Drawings (mm)

Metallic Pump Heads



Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors

L/hr Maximum Flow at Designed Pressure

L/hr All Pumps 7 Bar	17 Bar	L/hr Metallic Pump Heads Only 34 Bar	69 Bar	Pump RPM	Gear Ratio	Motor RPM
115.1	113.9	111.1	104.9	25	60:1	1500
188.5	187.2	184.0	180.2	30	50:1	
173.5	172.0	168.4	161.4	37.5	40:1	
232.0	230.3	225.8	216.9	50	30:1	
278.9	276.7	271.7	261.2	60	25:1	
349.7	345.5	340.5	327.8	75	20:1	
466.3	462.7	455.2	438.6	100	15:1	
700.5	695.7	684.1	660.4	150	10:1	
934.7	927.9	914.1	882.2	200	7.5:1	
1401	1391	1371	1326	300	5:1	3000
1872	1858	1842	N/A	400	7.5:1	
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	3.7	4.0		

Notes:

1. The motor kW are based on ambient temperature conditions up to 40 °C. For ambient temperatures above 40 °C, please contact Warner International.
2. Capacity data is shown for pumps with elastomeric diaphragms. Contact factory for performance characteristics of pumps with PTFE diaphragms.
3. Contact factory for performance specifications.
4. Based on pump fluid viscosity.
5. Maximum continuous motor speed is rated speed at full pressure.
6. For intermittent or reduced pressure duties, please contact Warner International.

For 10:1 Turndown, Self-cooled Motors

L/hr Maximum Flow at Designed Pressure

L/hr All Pumps 7 Bar	17 Bar	L/hr Metallic Pump Heads Only 34 Bar	69 Bar	Pump RPM	Gear Ratio	Motor RPM
115.1	113.9	111.1	104.9	25	60:1	1500
188.5	187.2	184.0	180.2	30	50:1	
173.5	172.0	168.4	161.4	37.5	40:1	
232.0	230.3	225.8	216.9	50	30:1	
278.9	276.7	271.7	261.2	60	25:1	
349.7	345.5	340.5	327.8	75	20:1	
466.3	462.7	455.2	438.6	100	15:1	
700.5	695.7	684.1	N/A	150	10:1	
934.7	927.9	914.1	N/A	200	7.5:1	
1401	1391	1371	N/A	300	5:1	3000
1872	1858	N/A	N/A	400	7.5:1	
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	3.7				

Notes:

1. The motor kW are based on ambient temperature conditions up to 40 °C. For ambient temperatures above 40 °C, frame-cooled Motors may be required. Please contact Warner International.
2. Capacity data is shown for pumps with elastomeric diaphragms. Contact factory for performance characteristics of pumps with PTFE diaphragms.
3. Contact factory for performance specifications.
4. Based on pump fluid viscosity.
5. Maximum continuous motor speed is rated speed at full pressure.
6. For intermittent or reduced pressure duties, please contact Warner International.

See Page 4 for Electronic Flow Rate Controller.

P600 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

All Pump Heads (gph)		Metallic Pump Heads (gph)		Pump	Gear	Motor
100 psi	250 psi	500 psi	1000 psi	rpm	Ratio	rpm
30.40 [1b]	30.12 [1b]	30.21 [1b]	33.25 [2]	25	60:1	1500
43.90 [1b]	43.46 [1b]	42.49 [1b]	40.39 [2]	30	50:1	
55.00 [1b]	54.53 [1b]	53.39 [1b]	51.17 [2]	45	40:1	
73.90 [1b]	72.97 [1b]	71.58 [1b]	68.75 [3]	60	30:1	
88.41 [1b]	87.71 [1b]	86.12 [1b]	82.61 [3]	72	25:1	
110.7 [1b]	109.6 [1b]	107.9 [1b]	103.6 [3]	90	20:1	
147.8 [1b]	146.7 [1b]	144.3 [2]	139.1 [5]	120	15:1	
222.1 [1]	220.4 [1b]	217.0 [3]	209.4 [5]	180	10:1	
296.3 [1]	294.1 [2]	289.8 [3]	279.7 [5]	240	7.5:1	
444.5 [1b]	441.6 [3]	435.2 [3]	420.3 [7.5]	360	5:1	
593.3 [2]	589.0 [3]	580.7 [7.5]	560.9 [10]	480	7.5:1	3600
890.0 [3]	883.6 [5]	871.6 [5]	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
188.5 [0.37]	187.2 [0.75]	184.0 [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]	230.3 [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	
349.7 [0.55]	345.5 [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]	695.7 [1.5]	684.1 [3.5]	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	
1401 [1.5]	1391 [2.2]	1371 [4]	1326 [7.5]	300	5:1	
1872 [1.5]	1858 [4]	1822 [5.5]	1769 [7.5]	400	7.5:1	3000
2808 [3.5]	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