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HYDRA-CELL KALVOPUMPUT P400

Annostelupumppu

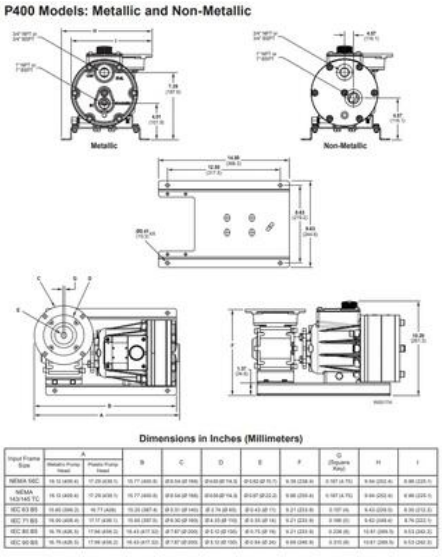
P400ASGSSB10S
Kalvopumppu P400

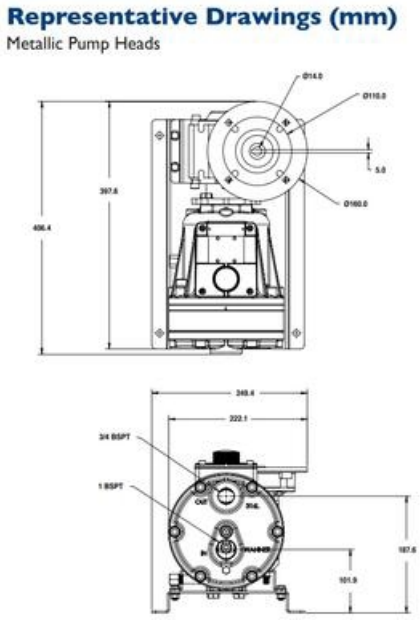


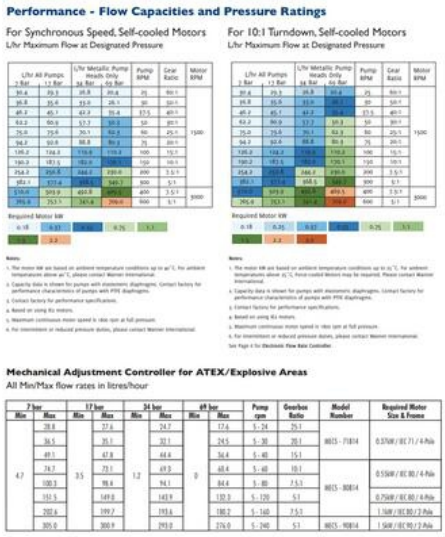
- Virtaus 3 - 900 l/h
- Paine max. 103 bar
- Muovi- ja metallirakenne
- Tiivisteetön rakenne

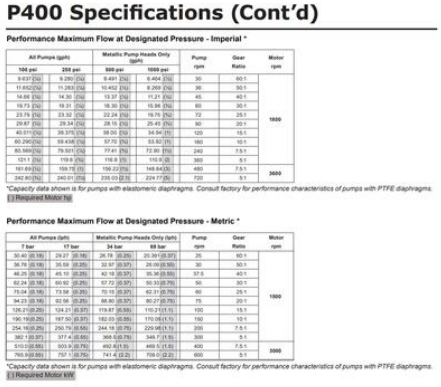
TUOTEKUVAUS

Hydra-Cell Metering Solutions P500 -pumpuissa käytetään kolmea kalvoa yhdessä pumppupäässä. Tämän ainutlaatuisen rakenteen ansiosta Hydra-Cell tuottaa käytännössä "pulssittoman" virtauksen ilman että, on tarvetta käyttää kalliita pulsaationvaimentimia.

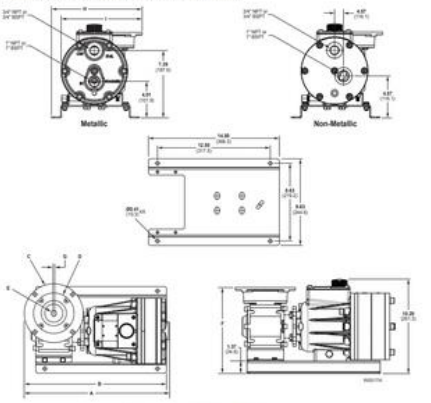








P400 Models: Metallic and Non-Metallic

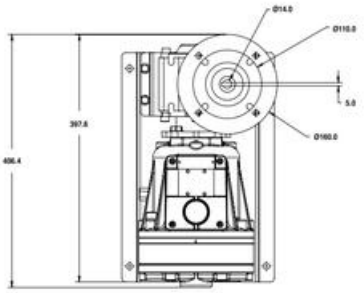


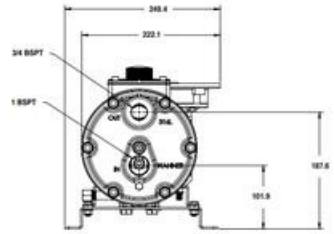
Dimensions in Inches (Millimeters)

Input Frame Size	A Metallic Pump Head	A Plastic Pump Head	B	C	D	E	F	G (Square Key)	H	I
NEMA 56C	16.13 (409.4)	17.29 (439.1)	15.77 (400.5)	Ø 6.54 (Ø 166)	Ø 6.69 (Ø 174.5)	Ø 5.62 (Ø 71.7)	9.39 (238.4)	0.187 (4.75)	9.84 (252.4)	8.86 (225.1)
NEMA 143/145 TC	16.13 (409.4)	17.29 (439.1)	15.77 (400.5)	Ø 6.54 (Ø 166)	Ø 6.69 (Ø 174.5)	Ø 5.87 (Ø 22.2)	9.86 (250.4)	0.187 (4.75)	9.84 (252.4)	8.86 (225.1)
IEC 63 B5	15.45 (396.2)	16.77 (426)	15.20 (387.6)	Ø 5.31 (Ø 140)	Ø 5.74 (Ø 65)	Ø 0.43 (Ø 11)	9.27 (233.9)	0.157 (4)	9.43 (239.5)	8.35 (212.2)
IEC 71 B5	15.90 (408.4)	17.17 (436.1)	15.66 (397.5)	Ø 6.30 (Ø 160)	Ø 6.10 (Ø 110)	Ø 0.55 (Ø 14)	9.27 (233.9)	0.196 (5)	9.62 (248.4)	8.74 (222.1)
IEC 80 B5	16.76 (426.1)	17.94 (456.2)	16.43 (417.32)	Ø 7.87 (Ø 200)	Ø 6.10 (Ø 150)	Ø 0.75 (Ø 19)	9.27 (233.9)	0.236 (6)	10.61 (269.7)	9.53 (242.2)
IEC 90 B5	16.76 (426.1)	17.94 (456.2)	16.43 (417.32)	Ø 7.87 (Ø 200)	Ø 6.10 (Ø 150)	Ø 0.94 (Ø 24)	9.66 (246.9)	0.315 (8)	10.61 (269.7)	9.53 (242.2)

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 2 Bar	L/hr All Pumps 13 Bar	L/hr Metallic Pump Heads Only 34 Bar	L/hr Metallic Pump Heads Only 69 Bar	Pump RPM	Gear Ratio	Motor RPM
30.4	29.3	26.8	20.4	25	60:1	1500
36.8	35.6	33.0	26.1	30	50:1	
46.2	45.1	42.3	31.4	37.5	40:1	
62.2	60.0	57.7	50.3	50	30:1	
75.0	73.6	70.1	62.3	60	25:1	
94.2	92.0	88.8	80.3	75	20:1	
126.2	124.0	119.9	110.2	100	15:1	
190.2	187.5	182.9	170.1	150	10:1	
254.2	252.0	246.0	230.0	200	7.5:1	
382.1	377.4	368.5	348.7	300	5:1	
510.0	503.9	492.0	459.5	400	3.75:1	3500
765.0	757.1	741.4	709.0	600	5:1	

Required Motor kW

0.18	0.37	0.55	0.75	1.1
1.5	2.2			

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 using IEC motors.
5. Maximum continuous motor speed is rated rpm 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 Designated Pressure

L/hr All Pumps 2 Bar	L/hr All Pumps 13 Bar	L/hr Metallic Pump Heads Only 34 Bar	L/hr Metallic Pump Heads Only 69 Bar	Pump RPM	Gear Ratio	Motor RPM
30.4	29.3	26.8	20.4	25	60:1	1500
36.8	35.6	33.0	26.1	30	50:1	
46.2	45.1	42.3	31.4	37.5	40:1	
62.2	60.0	57.7	50.3	50	30:1	
75.0	73.6	70.1	62.3	60	25:1	
94.2	92.0	88.8	80.3	75	20:1	
126.2	124.0	119.9	110.2	100	15:1	
190.2	187.5	182.9	170.1	150	10:1	
254.2	252.0	246.0	230.0	200	7.5:1	
382.1	377.4	368.5	348.7	300	5:1	
510.0	503.9	492.0	459.5	400	3.75:1	3500
765.0	757.1	741.4	709.0	600	5:1	

Required Motor kW

0.18	0.25	0.37	0.55	0.75	1.1
1.5	2.2	3.0			

Notes:

1. The motor kW are based on ambient temperature conditions up to 40 °C. For ambient temperatures above 40 °C, Ferro-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 using IEC motors.
5. Maximum continuous motor speed is rated rpm at full pressure.
6. For intermittent or reduced pressure duties, please contact Warner International.

See Page 4 for **Electronic Flow Rate Controller**

Mechanical Adjustment Controller for ATEX/Explosive Areas

All Min/Max flow rates in litres/hour

7 bar Min	7 bar Max	17 bar Min	17 bar Max	34 bar Min	34 bar Max	69 bar Min	69 bar Max	Pump rpm	Gearbox Ratio	Model Number	Required Motor Size & Frame
4.7	38.8	3.5	27.6	1.2	24.7	0	17.6	5 - 24	25:1	8015 - 71814	0.37kW / IEC 71 / 4-Pole
	36.5		35.1		32.1		24.5	5 - 30	20:1		
	49.1		47.8		44.4		36.4	5 - 40	15:1		
	74.7		73.1		69.3		48.4	5 - 48	10:1	8015 - 80814	0.55kW / IEC 80 / 4-Pole
	100.3		98.4		94.1		84.4	5 - 80	7.5:1		
	151.5		149.0		143.9		132.3	5 - 120	5:1		0.75kW / IEC 80 / 4-Pole
	202.6		199.7		193.6		180.2	5 - 160	7.5:1		1.1kW / IEC 90 / 2-Pole
	305.0		300.9		293.0		276.0	5 - 240	5:1	8015 - 90814	1.5kW / IEC 90 / 2-Pole

P400 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

All Pumps (gph)		Metallic Pump Heads Only (gph)		Pump rpm	Gear Ratio	Motor rpm
100 psi	250 psi	500 psi	1000 psi			
9.63 (1/2)	9.280 (1/2)	9.491 (1/2)	6.464 (1/2)	30	60:1	1800
11.612 (1/2)	11.253 (1/2)	10.452 (1/2)	8.269 (1/2)	36	50:1	
14.66 (1/2)	14.30 (1/2)	13.37 (1/2)	11.21 (1/2)	45	40:1	
19.73 (1/2)	19.31 (1/2)	18.30 (1/2)	15.94 (1/2)	60	30:1	
23.79 (1/2)	23.32 (1/2)	22.24 (1/2)	19.75 (1/2)	72	25:1	
29.87 (1/2)	29.34 (1/2)	28.15 (1/2)	25.45 (1/2)	90	20:1	
40.011 (1/2)	39.370 (1/2)	38.00 (1/2)	34.84 (1/2)	120	15:1	
60.290 (1/2)	59.436 (1/2)	57.70 (1/2)	53.92 (1/2)	180	10:1	
80.569 (1/2)	79.501 (1/2)	77.41 (1/2)	72.99 (1/2)	240	7.5:1	
121.1 (1/2)	119.6 (1/2)	116.6 (1/2)	110.5 (1/2)	360	5:1	
161.69 (1/2)	159.75 (1/2)	156.22 (1/2)	148.84 (1/2)	480	7.5:1	3600
242.80 (1/2)	240.01 (1/2)	235.03 (1/2)	224.77 (1/2)	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 Pumps (lph)		Metallic Pump Heads Only (lph)		Pump rpm	Gear Ratio	Motor rpm
7 bar	17 bar	34 bar	69 bar			
30.40 (0.18)	29.27 (0.18)	26.78 (0.25)	20.39 (0.37)	25	60:1	1500
36.76 (0.18)	35.55 (0.25)	32.97 (0.37)	26.09 (0.55)	30	50:1	
46.25 (0.18)	45.10 (0.25)	42.18 (0.37)	30.36 (0.55)	37.5	40:1	
62.24 (0.18)	60.02 (0.25)	57.72 (0.37)	50.33 (0.75)	50	30:1	
75.04 (0.18)	73.58 (0.25)	70.15 (0.37)	62.31 (0.75)	60	25:1	
94.23 (0.18)	92.04 (0.25)	88.80 (0.37)	80.27 (0.75)	75	20:1	
126.21 (0.25)	124.21 (0.37)	119.87 (0.55)	110.21 (1.1)	100	15:1	
190.19 (0.25)	187.50 (0.37)	182.93 (0.55)	170.06 (1.1)	150	10:1	
254.16 (0.25)	250.79 (0.55)	244.18 (0.75)	229.98 (1.1)	200	7.5:1	
382.1 (0.37)	377.4 (0.55)	368.5 (0.75)	348.7 (1.5)	300	5:1	
510.0 (0.55)	503.9 (0.75)	492.0 (1.5)	459.5 (1.5)	400	7.5:1	3000
765.0 (0.55)	757.1 (0.75)	741.4 (2.2)	709.0 (2.2)	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