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HYDRA-CELL KALVOPUMPUT P400

Annostelupumppu

P400MSESSC10S
Kalvopumppu P400

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

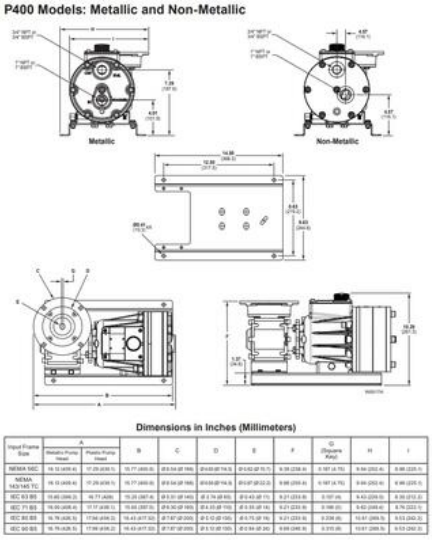
TUOTEKUVAUS

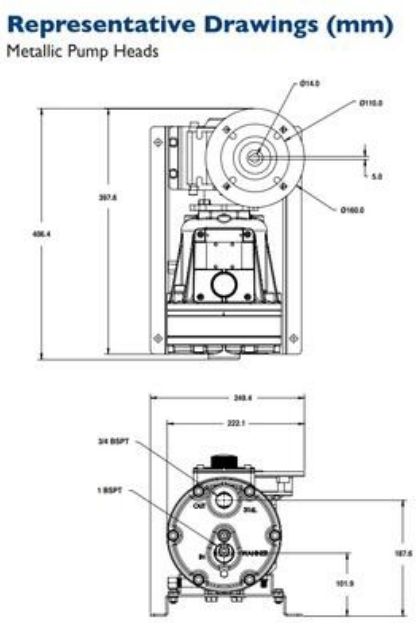
Hydra-Cell Metering Solutions P500 -pumpuissa käytetään kolmea kalvoa yhdessä pumppupäässä. Tämän ainutlaatuisen rakenteen ansiosta Hydra-Cell tuottaa käytännössä "pulssittoman" virtauksen ilman että, on tarvetta käyttää kalliita pulsaationvaimentimia.

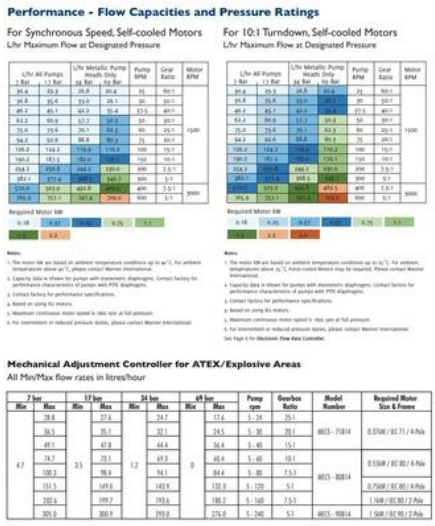
TEKNISET TIEDOT

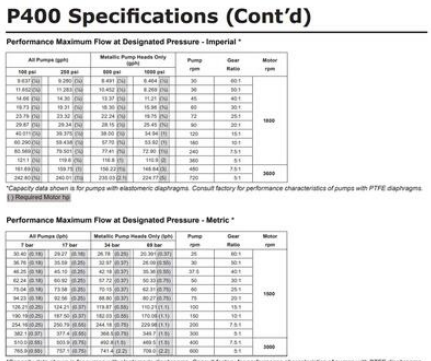
Akselimitta	Ontto akseli 24 mm
Hydrauliöljyn määrä	1,05 l
Jousipidikkeen materiaali	Hastelloy C
Kalvon materiaali	EPDM
Liitännän sisääntulo	BSPT 1"
Liitännän ulostulo	BSPT 3/4"
Max. järjestelmän paine	17 bar
Max. käyttölämpötila	120 °C
Max. paine	69 bar
Max. virtaus	228 l/h
Max. viskositeetti	3000 cP
Paino	30 kg
Particle size	Max. 0,5mm
Pohjalevyn materiaali	SS 316L
Pumpun materiaali	SS 316L
Pyörimissuunta	Valinnainen

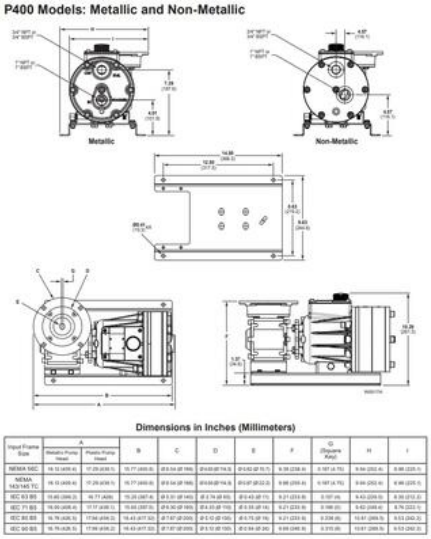
Venttiilien materiaali	Nitronic 50
Venttiilin istukan materiaali	SS 316L
Venttiilin jousen materiaali	Elgiloy
Välityssuhde	10:1 - IEC 90-B5

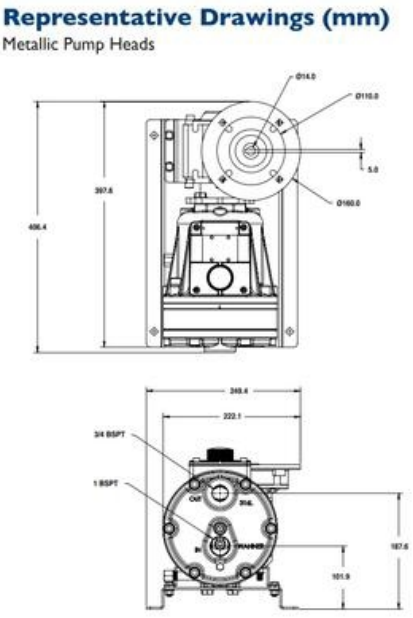












Performance - Flow Capacities and Pressure Ratings

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
30.4	29.3	26.8	20.3	25	60:1	1500
36.8	35.6	33.0	26.1	30	50:1	
46.2	45.1	42.2	35.4	37.5	40:1	
62.2	60.9	57.7	50.3	50	30:1	
75.0	73.6	70.1	62.3	60	25:1	
94.2	92.6	88.8	80.3	75	20:1	
126.2	124.2	119.9	110.2	100	15:1	
190.2	187.5	182.0	170.1	150	10:1	
254.2	250.8	244.2	230.0	200	7.5:1	
382.1	377.4	368.5	349.7	300	5:1	
510.0	503.9	492.8	469.5	400	7.5:1	3000
765.9	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 Wanner 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 IE2 motors.
5. Maximum continuous motor speed is 1800 rpm at full pressure.
6. For intermittent or reduced pressure duties, please contact Wanner International.

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
30.4	29.3	26.8	20.3	25	60:1	1500
36.8	35.6	33.0	26.1	30	50:1	
46.2	45.1	42.2	35.4	37.5	40:1	
62.2	60.9	57.7	50.3	50	30:1	
75.0	73.6	70.1	62.3	60	25:1	
94.2	92.6	88.8	80.3	75	20:1	
126.2	124.2	119.9	110.2	100	15:1	
190.2	187.5	182.0	170.1	150	10:1	
254.2	250.8	244.2	230.0	200	7.5:1	
382.1	377.4	368.5	349.7	300	5:1	
510.0	503.9	492.8	469.5	400	7.5:1	3000
765.9	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 25°C. For ambient temperatures above 25°C, Force-cooled Motors may be required. Please contact Wanner 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 IE2 motors.
5. Maximum continuous motor speed is 1800 rpm at full pressure.
6. For intermittent or reduced pressure duties, please contact Wanner 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	28.8	3.5	27.6	1.2	24.7	0	17.6	5 - 24	25:1	MECS - 71B14	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		60.4	5 - 60	10:1	MECS - 80B14	0.55kW / IEC 80 / 4-Pole
	100.3		98.6		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 80 / 2-Pole
	305.0		300.9		293.0		276.0	5 - 240	5:1	MECS - 90B14	1.5kW / IEC 90 / 2-Pole

P400 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

All Pumps (gph) 100 psi	All Pumps (gph) 250 psi	Metallic Pump Heads Only (gph) 500 psi	Metallic Pump Heads Only (gph) 1000 psi	Pump rpm	Gear Ratio	Motor rpm
9.637 (½)	9.260 (½)	8.491 (½)	8.404 (½)	30	60:1	1800
11.652 (½)	11.283 (½)	10.452 (½)	8.269 (½)	36	50:1	
14.66 (½)	14.30 (½)	13.37 (½)	11.21 (½)	45	40:1	
19.73 (½)	19.31 (½)	18.30 (½)	15.96 (½)	60	30:1	
23.79 (½)	23.32 (½)	22.24 (½)	19.75 (¾)	72	25:1	
29.87 (½)	29.34 (½)	28.15 (½)	25.45 (¾)	90	20:1	
40.011 (½)	39.375 (½)	38.00 (½)	34.94 (1)	120	15:1	
60.290 (½)	59.438 (½)	57.70 (¾)	53.92 (1)	180	10:1	
80.569 (½)	79.501 (½)	77.41 (¾)	72.90 (1½)	240	7.5:1	
121.1 (½)	119.6 (¾)	116.8 (1)	110.9 (2)	360	5:1	
161.69 (½)	159.75 (1)	156.22 (1½)	148.84 (3)	480	7.5:1	3600
242.80 (¾)	240.01 (1½)	235.03 (2.1)	224.77 (5)	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) 7 bar	All Pumps (lph) 17 bar	Metallic Pump Heads Only (lph) 34 bar	Metallic Pump Heads Only (lph) 69 bar	Pump rpm	Gear Ratio	Motor rpm
30.40 (0.18)	29.27 (0.18)	26.78 (0.25)	20.301 (0.37)	25	60:1	1500
36.76 (0.18)	35.59 (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)	35.36 (0.55)	37.5	40:1	
62.24 (0.18)	60.92 (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)	92.56 (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)	182.03 (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)	349.7 (1.5)	300	5:1	
510.0 (0.55)	503.9 (0.75)	492.8 (1.5)	469.5 (1.5)	400	7.5:1	3000
765.9 (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