

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 "pulsittoman" 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

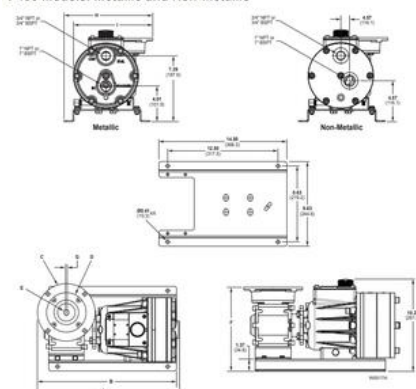
Venttiilin jousen materiaali

Elgiloy

Välityssuhde

10:1 - IEC 90-B5

P400 Models: Metallic and Non-Metallic

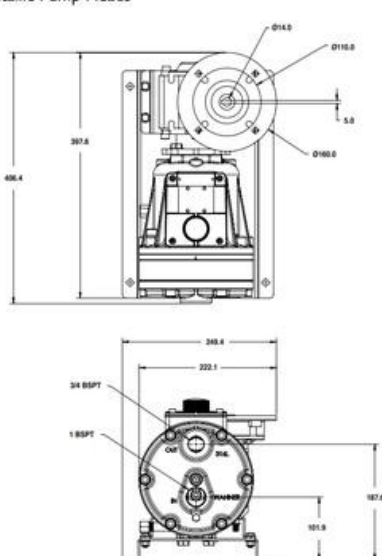


Dimensions in Inches (Millimeters)

Dimensions in inches (millimeters)											
Input Frame Size	Relative Frame Size	Photo Frame Size	B	C	D	E	F	G (Diagonal)	H	I	
MINOR SIZE	16.5 (419.3)	17.7 (449.1)	75.7 (1924.0)	85.8 (2180.6)	95.9 (2437.4)	106.0 (2692.6)	116.1 (2938.8)	126.2 (3204.0)	136.3 (3469.2)	146.4 (3724.4)	
MAJOR SIZE	17.7 (449.1)	18.9 (477.6)	85.8 (2180.6)	95.9 (2437.4)	106.0 (2692.6)	116.1 (2938.8)	126.2 (3204.0)	136.3 (3469.2)	146.4 (3724.4)	156.5 (3979.6)	
MAX. T/C	15.1 (384.0)	17.7 (449.1)	75.7 (1924.0)	85.8 (2180.6)	95.9 (2437.4)	106.0 (2692.6)	116.1 (2938.8)	126.2 (3204.0)	136.3 (3469.2)	146.4 (3724.4)	
REC. 8160	16.5 (419.3)	17.7 (449.1)	85.8 (2180.6)	95.9 (2437.4)	106.0 (2692.6)	116.1 (2938.8)	126.2 (3204.0)	136.3 (3469.2)	146.4 (3724.4)	156.5 (3979.6)	
REC. 7185	16.5 (419.3)	17.7 (449.1)	75.7 (1924.0)	85.8 (2180.6)	95.9 (2437.4)	106.0 (2692.6)	116.1 (2938.8)	126.2 (3204.0)	136.3 (3469.2)	146.4 (3724.4)	
REC. 6195	16.5 (419.3)	17.7 (449.1)	75.7 (1924.0)	85.8 (2180.6)	95.9 (2437.4)	106.0 (2692.6)	116.1 (2938.8)	126.2 (3204.0)	136.3 (3469.2)	146.4 (3724.4)	

Representative Drawings (mm)

Metallic Pump Heads



Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors
 List Maximum Flow at Designated Pressure

For 10:1 Turndown, Self-cooled Motors
Lb/ Maximum Flow at Designated Pressure

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1. The tests are based on ambient temperature conditions up to 40°C. The test temperatures above 40°C, please consult Warner International.
2. Capacity data is shown for pumps with electronic diaphragms. Contact factory performance characteristics of pumps with PTFE diaphragms.
3. Contact factory for performance specifications.
4. Based on using 32 meters.
5. Maximum continuous motor speed is rated up at full pressure.
6. The maximum of reduced pressure (differential, closed contact) Warner International.

1. The motor will not be used in ambient temperature conditions up to 25°C . For ambient temperatures above 25°C , heat-treated Motors may be required. Please contact Bussor International.
2. Capacity data is shown for pumps with aluminum diaphragms. Contact factory for performance characteristics of pumps with PTFE diaphragms.
3. Contact factory for performance specifications.
4. Based on using 50 Hz motor.
5. Maximum continuous motor speed is also given at full pressure.
6. For investment or industrial grade designs, please contact Bussor International.

Mechanical Adjustment Controller for ATEX/Explosive Areas

All Min/Max flow rates in litres/hour

7.3m	12.3m		36.3m		4th	Pump	Gearbox Ratio	Model Number	Required Motor Size & Frame
	Rise	Rise	Rise	Rise					
38.8	37.6		24.7		17.6	5.24	26.1		
35.1	35.1		35.1		24.5	5.30	20.1	M05-100B4	0.55kW / 3C/11.4
49.7	47.8		44.8		44.4	5.40	15.1		
47.1	47.1		47.1		46.0	5.40	10.1		0.55kW / 3C/10.4
100.1	98.4	1.2	94.1	0.8	84.4	5.30	23.1	M05-100B4	0.75kW / 3C/10.4
101.4	100.9		100.9		120.2	5.120	5.1		0.75kW / 3C/10.4
202.4	199.9		199.9		196.2	5.140	23.1		1.5kW / 3C/10.4

P400 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

Performance maximum pump at Designated Pressure - Imperial						
All Pumps (gals)		Metallic Pump Heads Only		Pump RPM	Gear Ratio	Motor RPM
100 gpi	250 gpi	500 gpi	1000 gpi			
9.63" (25)	9.29" (23)	8.49" (21)	8.40" (21)	30	6:1	1800
11.62" (29)	11.28" (28)	10.42" (26)	8.26" (20)	30	50:1	
14.36" (36)	14.36" (36)	13.57" (34)	11.71" (29)	45	40:1	
19.73" (50)	19.71" (50)	18.30" (46)	15.71" (39)	30	50:1	
23.76" (60)	23.32" (59)	22.24" (56)	19.75" (50)	72	25:1	
29.67" (75)	29.34" (74)	28.15" (71)	25.45" (64)	80	20:1	
40.11" (102)	39.37" (100)	38.00" (96)	34.94" (88)	120	15:1	
51.64" (130)	50.44" (127)	48.33" (122)	43.36" (110)	150	12:1	
80.86" (205)	79.50" (200)	77.41" (196)	72.30" (183)	240	7.5:1	
121.1" (307)	119.8" (304)	116.8" (297)	109.3" (278)	360	5:1	
181.6" (459)	179.7" (454)	176.2" (448)	164.8" (418)	480	3.5:1	3600

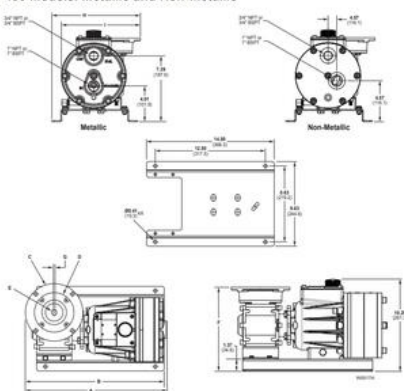
*Capacity data shown is for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.

Performance Maximum Flow at Designated Pressure - Metric *

All Pumps (gph)		Stateline Pump Heads Only (gph)		Pump	Gear	Motor
75 bar	55 bar	24 bar	69 bar	rpm		
88.40 (31.97)	29.27 (10.46)	32.37 (11.56)	20.93 (7.58)	35	40:1	1/2
75.78 (27.19)	25.59 (9.18)	32.37 (11.56)	20.93 (7.58)	35	50:1	1/2
68.25 (24.18)	45.10 (16.26)	47.19 (17.30)	55.36 (20.00)	37.8	40:1	3/4
62.24 (22.16)	60.92 (22.00)	57.72 (20.97)	50.33 (18.29)	50	30:1	1
75.04 (26.18)	73.38 (26.49)	75.10 (27.31)	62.71 (22.70)	60	25:1	1
94.23 (33.16)	92.46 (33.24)	94.40 (33.76)	87.27 (31.37)	75	20:1	1 1/2
120.29 (42.92)	124.71 (44.53)	124.71 (44.53)	110.25 (39.78)	100	15:1	2
190.10 (67.29)	187.50 (67.50)	182.10 (65.95)	170.19 (61.15)	150	12:1	2
254.10 (90.25)	257.10 (91.66)	244.18 (87.50)	220.98 (79.71)	200	7.5:1	3
382.1 (133.37)	377.4 (135.66)	368.5 (132.67)	348.7 (125.7)	250	5:1	3
570.0 (203.8)	559.9 (202.8)	490.6 (176.8)	489.5 (176.8)	400	7.5:1	5

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

P400 Models: Metallic and Non-Metallic

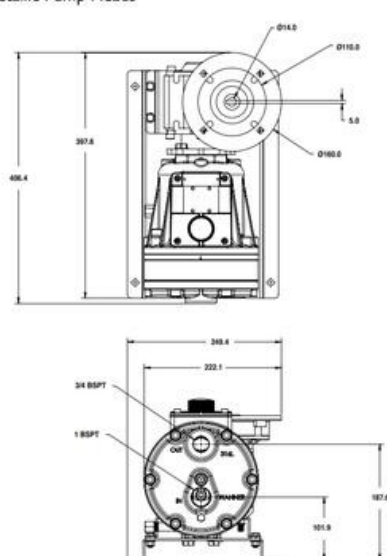


Dimensions in Inches (Millimeters)

[illegible]

Representative Drawings (mm)

Metallic Pump Heads



For Synchronous Speed, Self-cooled Motors
L/hr Maximum Flow at Designated Pressure

Required Motor kW

0.18	0.37	0.55	0.75	1.1
0.18	0.2	0.3	0.4	0.55

Notes	Notes
1. The motor IIR are based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Maxon Engineering.	1. The motor IIR are based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Maxon Engineering.
2. Capacity data is shown for gears with electronic diagnostics. Contact factory for performance characteristics of gears with PPS diagnostics.	2. Capacity data is shown for gears with electronic diagnostics. Contact factory for performance characteristics of gears with PPS diagnostics.
3. Contact factory for performance specifications.	3. Contact factory for performance specifications.
4. Based on using 40°C motors.	4. Based on using 40°C motors.
5. Maximum continuous motor speed is also up to full pressure.	5. Maximum continuous motor speed is also up to full pressure.
6. For information on reduced pressure (ultra, ultra-compact, Maxon International)	6. For information on reduced pressure (ultra, ultra-compact, Maxon International)

7	17			24			48			Pump Size	Gearbox Ratio	Model Number	Regulated Motor Size & Pumps
	Size	Rate	Rate	Size	Rate	Rate	Size	Rate	Rate				
4.7	38.8	37.1		24.7			12.4	5.34	30.1				
	36.5	35.1		22.1			24.5	5.30	30.1		8025-70004		0.530W/0C/1.0/A
	49.3	47.9		44.4			40.4	5.40	15.1				
	74.7	72.1		69.4			40.4	5.40	10.1				
	103.3	98.4	12						7.5.1		8025-80014		0.750W/0C/1.0/A
	133.3	140.4		143.9			130.3	5.120	5.1				0.750W/0C/1.0/A
	202.4	199.7		193.4			180.3	5.140	7.5.1				1.50W/0C/2.0/A
	350.4	349.9		293.9			270.4	5.240	5.1	8025-90004			1.50W/0C/2.0/A

Performance Maximum Flow at Designated Pressure - Imperial *

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

Air Pumps (gpm)			Metallic Pump Heads Only (gpm)		Pump	Gear Ratio	Motor gpm
7 bar	17 bar	34 bar	64 bar	64 bar			
35.40 (30.18)	29.27 (30.18)	26.18 (30.25)	20.39 (30.17)	20.39 (30.17)	25	60:1	
36.00 (30.18)	35.58 (30.18)	32.57 (30.18)	22.00 (30.30)	22.00 (30.30)	30	50:1	
45.20 (30.18)	45.10 (30.25)	42.18 (30.37)	35.08 (30.30)	35.08 (30.30)	37.5	40:1	
62.24 (30.18)	60.00 (30.25)	57.22 (30.25)	50.24 (30.30)	50.24 (30.30)	50	30:1	
79.28 (30.18)	71.58 (30.25)	68.82 (30.25)	68.82 (30.30)	68.82 (30.30)	68.82	25:1	
94.28 (30.18)	82.58 (30.25)	78.82 (30.30)	82.57 (30.30)	82.57 (30.30)	82.57	20:1	1500
126.21 (30.25)	124.21 (30.37)	119.87 (30.55)	110.21 (31.1)	110.21 (31.1)	100	15:1	
190.19 (30.25)	187.30 (30.37)	182.02 (30.55)	170.06 (31.1)	170.06 (31.1)	182	12:1	
254.10 (30.25)	250.79 (30.55)	244.18 (30.73)	229.06 (31.1)	229.06 (31.1)	240	10:1	
382.17 (30.37)	377.4 (30.55)	364.52 (30.73)	344.71 (31.1)	344.71 (31.1)	360	8:1	
510.0 (30.55)	505.8 (30.73)	492.61 (31.1)	469.5 (31.1)	469.5 (31.1)	480	7.5:1	
638.0 (30.73)	633.8 (30.91)	620.62 (31.1)	597.4 (31.1)	597.4 (31.1)	600	7:1	3000

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