



HYDRA-CELL KALVOPUMPUT P200

Annostelupumppu

P200MSGSSB05S
PUMP WITH GEARBOX AND BASEPLATE



- Virtaus 1 - 300 l/h
- Paine max. 70 bar
- Muovi- ja metallirakenne
- Tiivisteetön rakenne



TUOTEKUVAUS

Hydra-Cell Metering Solutions P200 -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 19 mm
Hydrauliöljyn määrä	0,95 l
Jousipidikkeen materiaali	Hastelloy C
Kalvon materiaali	Viton
Liitännän sisääntulo	BSPT 1/2"
Liitännän ulostulo	BSPT 3/8"
Max. järjestelmän paine	17 bar
Max. käyttölämpötila	120 °C
Max. paine	70 bar
Max. virtaus	306 l/h
Max. viskositeetti	1000 cP
Paino	19 kg
Particle size	Max. 0,2mm
Pohjalevyn materiaali	Ruostumaton teräs
Pumpun materiaali	SS 316
Pyörimissuunta	Valinnainen

P200 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					
3.378 (15)	3.321 (15)	3.249 (15)	3.120 (15)	30	60:1	1800	1800	1800
4.099 (15)	3.994 (15)	3.911 (15)	3.770 (15)	36	50:1			
5.072 (15)	5.015 (15)	4.908 (15)	4.748 (15)	45	40:1			
6.756 (15)	6.660 (15)	6.555 (15)	6.350 (15)	60	30:1			
8.107 (15)	8.022 (15)	7.873 (15)	7.637 (15)	72	25:1			
10.130 (15)	10.077 (15)	9.849 (15)	9.563 (15)	90	20:1			
13.603 (14)	13.360 (14)	13.14 (14)	12.77 (14)	120	15:1			
20.248 (14)	20.052 (14)	19.73 (14)	19.19 (14)	180	10:1			
26.993 (14)	26.735 (14)	26.32 (14)	25.62 (14)	240	7.5:1			
40.483 (13)	40.101 (13)	39.49 (13)	38.46 (13)	360	5:1			
53.97 (13)	53.47 (13)	52.66 (13)	51.30 (13)	480	7.5:1	3600	3600	3600
80.95 (13)	80.20 (13)	79.01 (13)	76.98 (13)	720	5:1			

(1) 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					
10.65 (0.18)	10.48 (0.18)	10.25 (0.18)	9.868 (0.25)	25	60:1	1500	1500	1500
12.81 (0.18)	12.60 (0.18)	12.34 (0.18)	11.91 (0.37)	30	50:1			
16.00 (0.18)	15.82 (0.18)	15.48 (0.18)	14.98 (0.37)	37.5	40:1			
21.32 (0.18)	21.09 (0.18)	20.68 (0.18)	20.04 (0.37)	50	30:1			
25.07 (0.18)	25.31 (0.18)	24.83 (0.18)	24.09 (0.37)	60	25:1			
31.98 (0.18)	31.63 (0.18)	31.07 (0.18)	30.17 (0.37)	75	20:1			
42.59 (0.18)	42.17 (0.18)	41.46 (0.18)	40.29 (0.37)	100	15:1			
63.87 (0.18)	63.25 (0.18)	62.23 (0.25)	60.55 (0.55)	150	10:1			
85.15 (0.18)	84.34 (0.18)	83.01 (0.25)	80.80 (0.55)	200	7.5:1			
127.7 (0.18)	126.5 (0.18)	124.6 (0.37)	121.3 (0.75)	300	5:1	3000	3000	3000
170.3 (0.18)	168.7 (0.37)	166.1 (0.55)	161.8 (0.75)	400	7.5:1			
255.4 (0.18)	253.0 (0.55)	249.2 (0.55)	242.8 (0.75)	600	5:1			

(1) Required Motor kW

Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors

Lhr Maximum Flow at Designated Pressure

L/hr All Pumps 1.8 Bar - 25.8 Bar		L/hr Metallic Pump Heads Only 34 Bar - 103.4 Bar		Pump RPM	Gear Ratio	Motor RPM
100 psi	250 psi	500 psi	1000 psi			
16.8	16.5	16.0	15.2	25	60:1	1800
19.8	19.5	19.0	18.0	30	50:1	
24.8	24.5	24.0	23.0	37.5	40:1	
31.8	31.5	31.0	30.0	45	30:1	
39.8	39.5	39.0	38.0	54	25:1	
49.8	49.5	49.0	48.0	66	20:1	
61.8	61.5	61.0	60.0	81	15:1	
75.8	75.5	75.0	74.0	100	10:1	
91.8	91.5	91.0	90.0	120	7.5:1	
110.8	110.5	110.0	109.0	150	5:1	
150.8	150.5	150.0	149.0	200	3.75:1	3600
200.8	200.5	200.0	199.0	300	2.5:1	

Required Motor kW

1.8 2.5 3.75 5.0 7.5 10.0 15.0 20.0 30.0 40.0 50.0 75.0 100.0 150.0 200.0 300.0

Notes:

- The motor kW are based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Borelli International.
- Contact factory for performance specifications.
- Based on using K1 motors.
- Maximum continuous motor speed is 1500 rpm at full pressure.
- For intermittent or reduced pressure duty, please contact Borelli International.

For 10:1 Turndown, Self-cooled Motors

Lhr Maximum Flow at Designated Pressure

L/hr All Pumps 1.8 Bar - 25.8 Bar		L/hr Metallic Pump Heads Only 34 Bar - 103.4 Bar		Pump RPM	Gear Ratio	Motor RPM
100 psi	250 psi	500 psi	1000 psi			
16.8	16.5	16.0	15.2	25	60:1	1800
19.8	19.5	19.0	18.0	30	50:1	
24.8	24.5	24.0	23.0	37.5	40:1	
31.8	31.5	31.0	30.0	45	30:1	
39.8	39.5	39.0	38.0	54	25:1	
49.8	49.5	49.0	48.0	66	20:1	
61.8	61.5	61.0	60.0	81	15:1	
75.8	75.5	75.0	74.0	100	10:1	
91.8	91.5	91.0	90.0	120	7.5:1	
110.8	110.5	110.0	109.0	150	5:1	
150.8	150.5	150.0	149.0	200	3.75:1	3600
200.8	200.5	200.0	199.0	300	2.5:1	

Required Motor kW

1.8 2.5 3.75 5.0 7.5 10.0 15.0 20.0 30.0 40.0 50.0 75.0 100.0 150.0 200.0 300.0

Notes:

- The motor kW are based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Borelli International.
- Contact factory for performance specifications.
- Based on using K1 motors.
- Maximum continuous motor speed is 1500 rpm at full pressure.
- For intermittent or reduced pressure duty, please contact Borelli International.
- See Page 11 for Electronic Flow Rate Controller.

Mechanical Adjustment Controller for ATEX/Explosive Areas

All Min/Max flow rates in litres/hour

7 bar		17 bar		34 bar		69 bar		Pump rpm	Gear Ratio	Model Number	Required Motor Size & Power
Min	Max	Min	Max	Min	Max	Min	Max				
10.7	10.0	10.0	9.0	9.0	8.0	7.0	6.0	1800	1800	M13 - 7/18 H	0.75kW / 0.77 / 4.0kW
13.8	13.0	13.0	11.8	11.8	10.5	9.5	8.5				
17.0	16.0	16.0	14.5	14.5	13.0	11.5	10.5				
20.2	19.0	19.0	17.0	17.0	15.0	13.5	12.5				
23.5	22.0	22.0	20.0	20.0	18.0	16.5	15.5				
26.8	25.0	25.0	23.0	23.0	21.0	19.5	18.5				
30.0	28.0	28.0	26.0	26.0	24.0	22.5	21.5				
33.2	31.0	31.0	29.0	29.0	27.0	25.5	24.5				
36.5	34.0	34.0	32.0	32.0	30.0	28.5	27.5				
39.7	37.0	37.0	35.0	35.0	33.0	31.5	30.5				
43.0	40.0	40.0	38.0	38.0	36.0	34.5	33.5	3600	3600	M13 - 7/18 H	0.75kW / 0.77 / 4.0kW
46.2	44.0	44.0	42.0	42.0	40.0	38.5	37.5				
49.5	47.0	47.0	45.0	45.0	43.0	41.5	40.5	3600	3600	M13 - 7/18 H	0.75kW / 0.77 / 4.0kW
52.7	50.0	50.0	48.0	48.0	46.0	44.5	43.5				