



HYDRA-CELL KALVOPUMPUT P200

Annostelupumppu

P200MSESSA10S
PUMP WITH GEARBOX AND BASEPLATE



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



TUOTEKUVAUS

Ainutlaatuinen monikalvorakenne lineaariselle ja pulssittomalle virtaukselle

Hydra-Cell Metering Solutions P200 -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 14 mm
Hydrauliöljyn määrä	0,95 l
Jousipidikkeen materiaali	Hastelloy C
Kalvon materiaali	EPDM
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	76 l/h
Max. viskositeetti	1000 cP
Paino	19 kg
Partikkelikoko	Max. 0,2mm mm
Pohjalevyn materiaali	Ruostumaton teräs

Pumpun materiaali

SS 316

Pyörimissuunta

Valinnainen

Venttiilien materiaali

Nitronic 50

Venttiilin istukan materiaali

SS 316

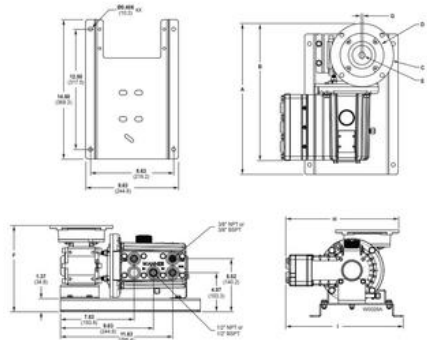
Venttiilin jousen materiaali

Elgiloy

Välityssuhde

10:1 - IEC 71-B5

P200 Models: Metallic and Non-Metallic

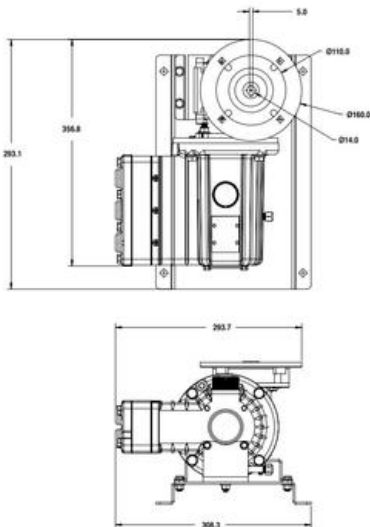


Dimensions in Inches (Millimeters)

Pump Model	A	B	C	D	E	F	G	H	I
40MA (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)
40C (30)	10.00 (254)	14.00 (355)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)	8.00 (203)

Representative Drawings (mm)

Metallic Pump Heads



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	
3,379 (12)	3,321 (12)	3,249 (12)	3,128 (12)	30
4,059 (12)	3,964 (12)	3,911 (12)	3,776 (12)	36
5,072 (12)	5,015 (12)	4,906 (12)	4,748 (12)	45
6,756 (12)	6,686 (12)	6,550 (12)	6,353 (12)	60
8,107 (12)	8,022 (12)	7,873 (12)	7,637 (12)	72
10,150 (12)	10,027 (12)	9,849 (12)	9,563 (12)	90
13,503 (12)	13,369 (12)	13,14 (12)	12,77 (12)	120
20,248 (12)	20,062 (12)	19,73 (12)	19,19 (12)	180
26,993 (12)	26,735 (12)	26,32 (12)	25,62 (12)	240
40,483 (12)	40,101 (12)	39,49 (12)	38,46 (12)	360
53,97 (12)	53,47 (12)	52,66 (12)	51,30 (12)	480
80,95 (12)	80,20 (12)	79,01 (12)	76,98 (12)	720

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)	9.889 (0.25)	25
12.81 (0.18)	12.60 (0.18)	12.34 (0.18)	11.91 (0.37)	30
16.00 (0.18)	15.82 (0.18)	15.48 (0.18)	14.98 (0.37)	37.5
21.32 (0.18)	21.09 (0.18)	20.68 (0.18)	20.04 (0.37)	50
26.57 (0.18)	26.31 (0.18)	24.83 (0.18)	24.09 (0.37)	60
31.96 (0.18)	31.63 (0.18)	31.07 (0.18)	30.17 (0.37)	75
42.59 (0.18)	42.17 (0.18)	41.46 (0.18)	40.29 (0.37)	100
63.67 (0.18)	63.25 (0.18)	62.23 (0.25)	60.55 (0.55)	150
85.15 (0.18)	84.34 (0.18)	83.01 (0.25)	80.80 (0.55)	200
127.7 (0.18)	126.5 (0.18)	124.6 (0.37)	121.3 (0.75)	300
170.3 (0.18)	168.7 (0.37)	166.1 (0.55)	161.8 (0.75)	400
255.4 (0.18)	253.0 (0.55)	249.2 (0.55)	242.8 (0.75)	600

1 Required Motor kW

Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors

L/hr Maximum Flow at Designated Pressure

L/hr All Pumps 3 Bar - 12 Bar	L/hr Metallic Pump Heads Only 34 Bar - 69 Bar	Pump RPM	Gear Ratio	Motor RPM
10.6	10.5	10.2	9.9	25
12.8	12.6	12.3	12.0	30
16.0	15.8	15.5	15.2	37.5
21.3	21.1	20.7	20.4	50
26.6	26.5	26.3	26.1	60
31.9	31.8	31.6	31.4	75
42.6	42.4	42.2	42.0	100
63.7	63.5	63.3	63.1	150
85.2	85.0	84.8	84.6	200
127.7	127.5	127.3	127.1	300
170.3	170.1	169.9	169.7	400
255.4	255.2	255.0	254.8	600

Notes:
1. The motor RPM and based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Western International.
2. Based solely on performance specifications.
3. Based on using 80 micron.
4. Maximum continuous motor speed is also given at full pressure.
5. For information on reduced pressure ratings, please contact Western International.

For 10:1 Turndown, Self-cooled Motors

L/hr Maximum Flow at Designated Pressure

L/hr All Pumps 3 Bar - 12 Bar	L/hr Metallic Pump Heads Only 34 Bar - 69 Bar	Pump RPM	Gear Ratio	Motor RPM
10.6	10.5	10.2	9.9	25
12.8	12.6	12.3	12.0	30
16.0	15.8	15.5	15.2	37.5
21.3	21.1	20.7	20.4	50
26.6	26.5	26.3	26.1	60
31.9	31.8	31.6	31.4	75
42.6	42.4	42.2	42.0	100
63.7	63.5	63.3	63.1	150
85.2	85.0	84.8	84.6	200
127.7	127.5	127.3	127.1	300
170.3	170.1	169.9	169.7	400
255.4	255.2	255.0	254.8	600

Notes:
1. The motor RPM and based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Western International.
2. Based solely on performance specifications.
3. Based on using 80 micron.
4. Maximum continuous motor speed is also given at full pressure.
5. For information on reduced pressure ratings, please contact Western International.
See Page 1 for Electrical Flow Rate Conversions.

Mechanical Adjustment Controller for ATEX/Explosive Areas

All Min/Max flow rates in litres/hour

Flow Rate	17 bar	34 bar	69 bar	Pump rpm	Control Ratio	Motor Model	Required Motor Size & Frame
10.6	10.5	10.2	9.9	25	25:1		
12.8	12.6	12.3	12.0	30	30:1		
16.0	15.8	15.5	15.2	37.5	37.5:1		
21.3	21.1	20.7	20.4	50	50:1		
26.6	26.5	26.3	26.1	60	60:1		
31.9	31.8	31.6	31.4	75	75:1		
42.6	42.4	42.2	42.0	100	100:1		
63.7	63.5	63.3	63.1	150	150:1		
85.2	85.0	84.8	84.6	200	200:1		
127.7	127.5	127.3	127.1	300	300:1		
170.3	170.1	169.9	169.7	400	400:1		
255.4	255.2	255.0	254.8	600	600:1		