

P200

Doseringspump

P200MSGSSB07S PUMP WITH GEARBOX AND BASEPLATE



- 1 - 300 l/h
- Tryck max. 70 bar
- Plast eller metallutförande
- Tätningslös och klarar torrkörning
- Finns i ATEX utförande



Produktinformation

Wanner HydraCell är en serie mycket robusta membranpumpar speciellt lämpade för dosering även vid höga tryck och svåra pumpmedier, som också kan vara slitande.

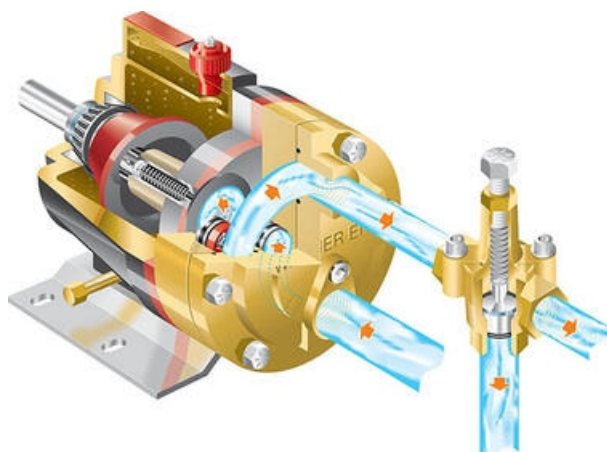
Pumparna har ingen genomgående axel med tätningar och mediet kommer aldrig i kontakt med mekanismen.

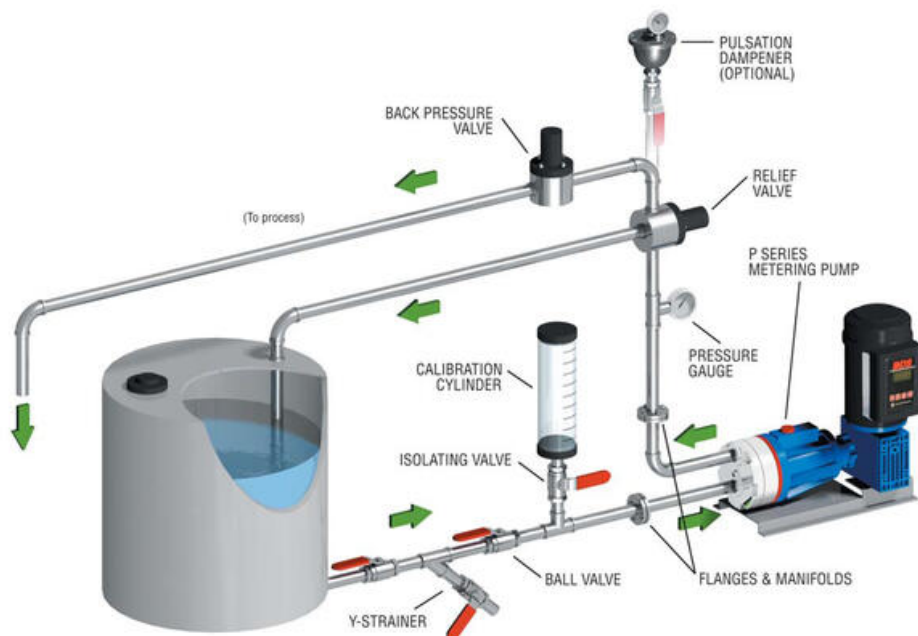
Membranen är avlastade med jämnt tryck över hela ytan, vilket ger dem mycket lång livslängd.

HydraCell-pumparna som arbetar enligt förträngningsprincipen, är självsugande, energisnåla och torrkörningssäkra.

Hydra-Cell pumparna möter de flesta och överträffar flera av kraven i standarden för doseringspumpar API 675.

De finns i många olika materialkombinationer och går även att få i ATEX-utförande för explosionsfarlig miljö.





Exempel på installation.

Pumphus	Mässing, 316L, Hastelloy C, Polypropylen, Kynar
Membran O-ringar	Aflas, EPDM, FKM, PTFE, Neoprene, Buna-N
Ventilsäten	316L, Hastelloy C, Keramik
Ventiler	Nitronic 50, Hastelloy C, Keramik
Fjäder	Elgiloy, Hastelloy C
Fjäderhållare	Polypropylen, PVDF, Hastelloy C
Flöde	1 - 300 l/h
Tryck metallutförande	Max. 70 bar
Tryck plastutförande	Polypropylen Max. 17 bar, Kynar Max 24 bar
Inloppstryck	Max. 17 bar
Temperatur*	Max. +120 °C (Beroende på materialval m.m.)*
Partikelstorlek	Max. 0,2 mm
Viskositet**	Max. 1000 cp (Beroende på installation och varvtal)**
ATEX***	EEx II 2G k ia IIB T4 (max. mediatemp. 90 °C, omgivningstemp - 10 till 40 °C) EEx II 3G k IIC T4 (max. mediatemp. 90 °C, omgivningstemp - 10 till 40 °C)
Kel-Cell	Nej
Anslutningar (In/Ut)	1/2" BSPT / 3/8" BSPT (NPT eller flänsar på förfrågan)
Rotationsriktning	Valfri
Oljevolym hydrauldel	ca. 1 l (Oljenivån skall vara ca. 1 cm under helt fylld hydrauldel)
Vikt metallutförande	17,7 kg
Vikt plastutförande	13,6 kg

* För applikationer där temperaturen går under +10 eller över +80°C kontakta oss.

** Vid viskositeter över 500 cp kontakta oss.

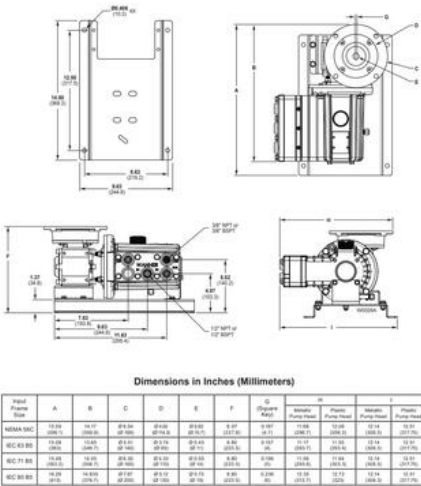
*** För applikationer i explosionsfarlig miljö kontakta oss.

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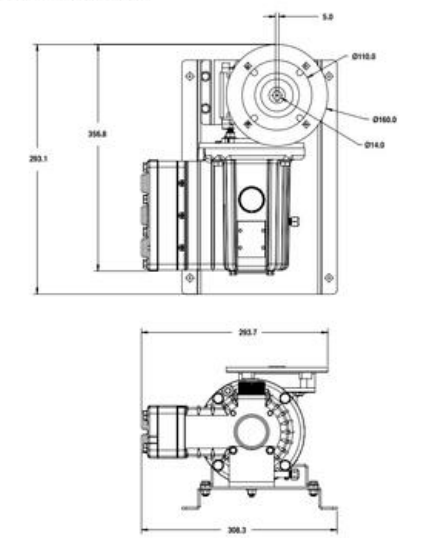
Teknisk data

Flöde max	204 l/h
Tryck max	70 bar
Systemtryck max	17 bar
Anslutning inlopp	1/2" BSPT
Anslutning utlopp	3/8" BSPT
Material Bottenplatta	Rostfritt stål
Material Fjäderhållare	Hastelloy C
Material Membran	FKM
Material Pumphus	SS 316
Material Ventiler	Nitronic 50
Material Ventilfjädrar	Elgiloy
Material Ventilsäten	SS 316
Axeldimension	Hålaxel 19 mm
Rotation	Valfri
Utväxling	7.5:1 - IEC 80-B5
Temperaturområde till	120 °C
Viskositet max	1000 cP
Olja	Livsmedelsolja H1 (K)
Oljevolym Hydrauldel	0,95 l
Particle size	Max. 0,2mm
Vikt	19 kg

P200 Models: Metallic and Non-Metallic



Representative Drawings (mm)



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
4,059 (18)	3,984 (18)	3,911 (18)	3,770 (18)	36	50:1
5,072 (24)	5,015 (24)	4,908 (24)	4,748 (24)	45	40:1
6,750 (32)	6,686 (32)	6,550 (32)	6,353 (32)	60	30:1
8,107 (36)	8,022 (36)	7,873 (36)	7,637 (36)	72	25:1
10,130 (48)	10,027 (48)	9,849 (48)	9,563 (48)	90	20:1
13,503 (60)	13,369 (60)	13,144 (60)	12,77 (60)	120	15:1
20,248 (84)	20,052 (84)	19,73 (84)	19,19 (84)	180	10:1
26,993 (108)	26,735 (108)	26,32 (108)	25,62 (108)	240	7.5:1
40,483 (168)	40,101 (168)	39,49 (168)	38,46 (168)	360	5:1
53,97 (216)	53,47 (216)	52,66 (216)	51,30 (216)	480	7.5:1
80,95 (324)	80,20 (324)	79,01 (324)	76,98 (324)	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
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)	14.96 (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
25.57 (0.18)	25.31 (0.18)	24.83 (0.18)	24.09 (0.37)	60	25:1
31.96 (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
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

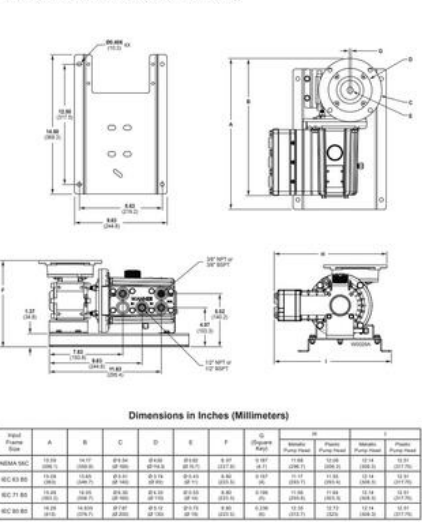
For Synchronous Speed, Self-cooled Motors					
Lhr Maximum Flow at Designated Pressure					
Lhr All Pumps	Lhr Metallic Pump Heads Only	Pump RPM	Gear Ratio	Motor RPM	
2 bar	12 bar	24 bar	48 bar		
10.6	10.5	10.3	10.1	25	60:1
12.8	12.6	12.3	12.1	30	50:1
16.0	15.8	15.5	15.3	37.5	40:1
21.3	21.1	20.7	20.5	50	30:1
25.6	25.3	24.8	24.6	60	25:1
31.9	31.6	31.1	30.9	75	20:1
42.6	42.2	41.5	41.1	100	15:1
63.9	63.2	62.2	61.8	150	10:1
85.2	84.3	83.0	81.8	200	7.5:1
127.7	126.5	124.6	121.3	300	5:1
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Notes:
1. The motor RPM are based on ambient temperature conditions up to 40 °C. For ambient temperatures above 40 °C, please contact Boreas International.
2. Contact Boreas for performance specifications.
3. Based on using 60 Hz motors.
4. Maximum continuous motor speed is also gph at full pressure.
5. For information or reduced pressure drops, please contact Boreas International.
See Page 10 for Detailed Flow Rate Curves.

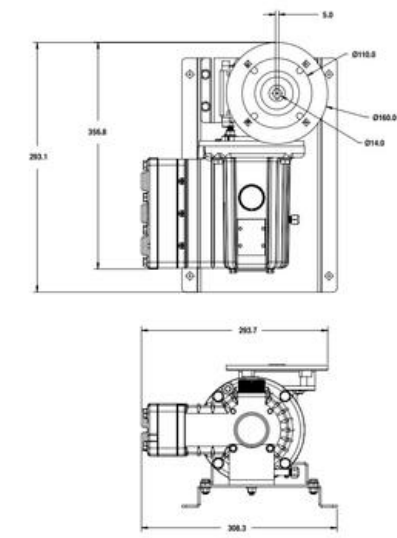
Mechanical Adjustment Controller for ATEX/Explosive Areas

All Min/Max flow rates in lph/hrs					
7 bar	17 bar	34 bar	69 bar	Pump rpm	Required Motor Size & Horse
10.6	10.5	10.3	10.1	25	60:1
12.8	12.6	12.3	12.1	30	50:1
16.0	15.8	15.5	15.3	37.5	40:1
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