

P100

Doseringspump

P100MSTSSA20C PUMP WITH GEARBOX AND BASEPLATE



- Flöde 0,3 - 85 l/h
- Tryck max. 103 bar
- Plast eller metallutförande
- Tätningslös och klarar torrkörning



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.

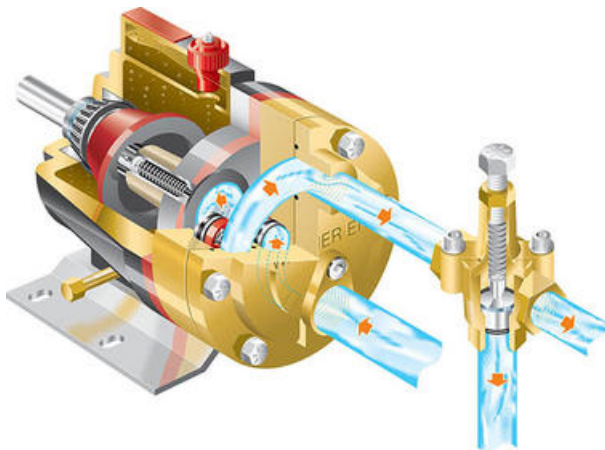
Pumparna har ingen genomgående axel med tätningar och mediet kommer aldrig i kontakt med mekanismen.

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

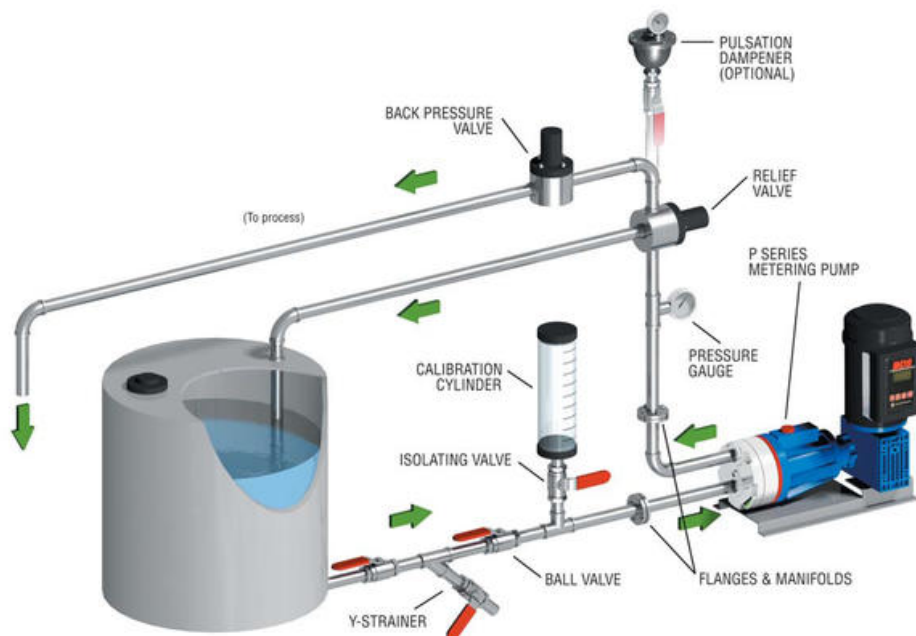
HydraCell-pumparna som arbetar enligt förträngningsprincipen, är självsugande, energisnåla och torrkörningssäkra.

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	316L, Nitronic 50, Hastelloy C, Keramik
Fjäder	Elgiloy, Hastelloy C
Fjäderhållare	Hastelloy C, Polypropylen, PVDF
Flöde	0,3 - 85 l/h
Tryck metallutförande	Max. 103 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)**
Kel-Cell	Nej
Anslutningar (In/Ut)	1/2" BSPT / 3/8" BSPT (NPT eller flänsar på förfrågan)
Rotationsriktning	Valfri
Oljevolym hydrauldel	0,12 l
Vikt metallutförande	8,4 kg
Vikt plastutförande	7,4 kg

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

** Vid viskositeter över 500 cP kontakta oss.

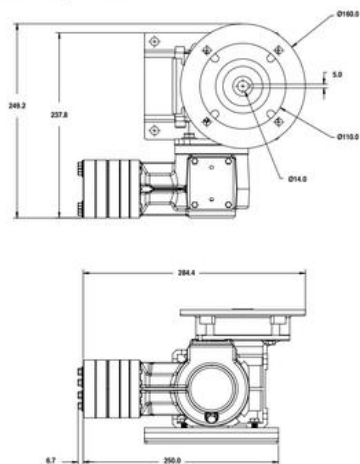
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Teknisk data

Flöde max	0,16 l/min
Tryck max	24 bar
Systemtryck max	17 bar
Anslutning inlopp	1/2" BSPT
Anslutning utlopp	3/8" BSPT
Material Bottenplatta	Epoxylackerat stål
Material Fjäderhållare	Hastelloy C
Material Membran	Buna-N
Material Pumphus	PVDF
Material Ventiler	Nitronic 50
Material Ventilfjädrar	Elgiloy
Material Ventilsäten	SS 316
Axeldimension	Hålaxel 14 mm
Rotation	Valfri
Utväxling	20:1 - IEC 71-B5
Temperaturområde till	80 °C
Viskositet max	1000 cP
Olja	Livsmedelsolja H1 (K)
Oljevolym Hydrauldel	0,12 l
Partikelstorlek	Max. 0,2mm mm
Vikt	8,4 kg

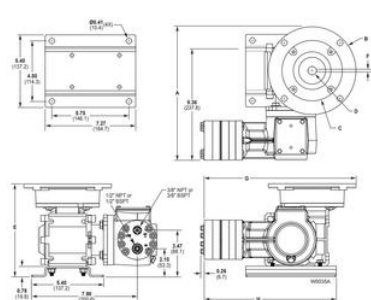
Representative Drawings (mm)

Metallic Pump Heads



P100 Dimensions

P100 Models: Metallic and Non-Metallic



Input Frame Size	A	B	C	D	E	F (Square Head)	G Metallic Plastic	H Metallic Plastic
NEMSA 58C	9.5 (242.2)	9.4 (54.5) (20 186)	4.0 (50.8) (21 144)	0.2 (5.1) (20 182)	0.9 (52.7) (20 175)	0.167 (4.2)	11.38 (287.4)	9.84 (250.0)
IEC 63 B5	9.42 (239)	9.4 (54.5) (20 183)	4.0 (50.8) (21 144)	0.2 (5.1) (20 182)	0.9 (52.7) (20 175)	0.167 (4.2)	11.38 (287.4)	9.84 (250.0)
IEC 71 B5	9.41 (240.2)	9.4 (54.5) (20 183)	4.0 (50.8) (21 144)	0.2 (5.1) (20 182)	0.9 (52.7) (20 175)	0.167 (4.2)	11.38 (287.4)	9.84 (250.0)

Performance - Flow Capacities and Pressure Ratings

For Synchronous Speed, Self-cooled Motors

Ltr Maximum Flow at Designated Pressure

L/Hr All Pumps		L/Hr Metallic Pump		Pump	Gear Ratio	Motor
7 Bar, 17 L	34 Bar, 15 L	5.6 Bar, 2.6 L	9.0 Bar, 4.0 L	RFM		
3.4	3.4	3.3	2.5	N/A	25	6013
4.1	4.1	4.0	3.9	N/A	30	5013
5.1	5.1	5.1	4.8	47	37.5	4011
6.0	6.0	6.8	6.5	53	50	3011
8.3	8.3	8.1	7.8	7.6	60	2511
10.5	10.5	10.6	9.8	9.5	75	2011
14.1	14.0	13.2	12.3	12.0	100	1511
21.9	21.9	20.4	19.6	19.0	150	1011
28.2	27.0	27.3	26.2	25.5	200	7.5/1
42.4	42.0	41.7	39.4	38.3	300	5/1
56.8	55.5	54.8	52.0	51.0	400	7.5/1
80.6	82.8	80.0	76.8	76.0	500	5/1

Notes:

1. The motor will get based on ambient temperature - conditions up to 60°C. The ambient temperature above 60°C, please contact Wipac International.
2. Contact factory for performance specifications.
3. Based on using R3 motor.
4. Maximum continuous motor speed is 1400 rpm at full pressure.
5. For intermittent or reduced pressure delivery, please contact Wipac International.

Required Motor kW

For 10:1 Turndown, Self-cooled Motors

Ltr Maximum Flow at Designated Pressure

L/Hr All Pumps 7 Bar, 12 Bar		L/Hr Metallic Pump Heads Only 3 Bar, 6 Bar, 100 Bar		Pump RPM	Gear Ratio	Motor RPM
3.4	3.4	3.4	3.4	25	60:1	
4.1	4.1	4.0	1.8	N/A	30	50:1
5.1	5.1	5.1	4.8	42	37.5	40:1
6.0	6.0	6.1	6.2	50	30	30:1
8.3	8.3	8.1	7.8	60	25:1	
10.6	10.4	10.2	9.5	75	20:1	
12.1	12.0	11.9	12.2	100	15:1	
21.1	20.9	20.8	20.4	150	10:1	
28.3	27.9	27.2	26.5	200	7.5:1	
47.4	47.0	47.0	46.4	300	5:1	
58.8	58.5	58.6	58.5	400	7.5:1	
85.0	83.8	84.0	82.5	600	5:1	

- The motor will not exceed an ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, forced-cooled motors may be required. Please contact Banner International.
- Contact factory for performance specifications.
- Based on using 30 motors.
- Maximum continuous motor speed is 1500 rpm at full pressure.
- For information on related product lines, please

Required Motor kW	0.18	0.28
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P100 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial *

All Pumps (gph)		Metallic Pump Heads Only (gph)				Pump	Gear	Motor
100 psi	250 psi	500 psi	1000 psi	1500 psi	2000 psi	rpm	Ratio	rpm
1,000 [50]	1,075 [53]	1,050 [52]	1,075 [53]	1,061 [52]	30	40:1		
1,316 [53]	1,300 [52]	1,273 [52]	1,220 [52]	1,184 [52]	38	50:1		
1,839 [53]	1,608 [52]	1,607 [52]	1,586 [52]	1,402 [52]	45	40:1		
2,192 [53]	2,192 [53]	2,148 [52]	2,056 [52]	2,000 [52]	80	30:1		
2,643 [53]	2,426 [53]	2,362 [52]	2,473 [52]	2,405 [52]	72	25:1		
3,318 [53]	3,249 [53]	3,332 [53]	3,089 [52]	3,014 [52]	90	20:1		
4,444 [53]	4,400 [52]	4,319 [52]	4,141 [52]	4,028 [52]	120	15:1		
6,009 [53]	6,616 [52]	6,483 [52]	6,258 [52]	6,057 [52]	180	10:1		
8,047 [53]	8,836 [52]	8,651 [52]	8,371 [52]	8,085 [52]	240	7.5:1		
13.45 [53]	13.27 [52]	12.99 [52]	12.48 [52]	12.14 [52]	360	5:1		
17.26 [53]	17.71 [52]	17.32 [52]	16.85 [52]	16.20 [52]	480	7.5:1		
20.96 [53]	20.58 [52]	20.99 [52]	24.90 [52]	24.31 [52]	720	5:1		

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

[1] Required Motor Size

Performance Maximum Flow at Designated Pressure - Metric *

All Pumps (gpm)		Metallic Pump Heads Only (gpm)				Pump	Gear	Motor
7 bar	17 bar	34 bar	69 bar	103 bar	153 bar	rpm	Ratio	rpm
3,400 [53]	3,506 [53]	3,327 [53]	3,220 [53]	3,200 [53]	25	40:1		
4,100 [53]	4,102 [53]	4,018 [53]	3,890 [53]	3,735 [53]	30	50:1		
5,140 [53]	5,135 [53]	5,068 [53]	4,844 [53]	4,746 [53]	37.5	40:1		
6,014 [53]	6,004 [53]	6,777 [53]	6,480 [53]	6,307 [53]	80	30:1		
8,334 [53]	8,293 [53]	8,545 [53]	7,807 [53]	7,587 [53]	60	25:1		
10,47 [53]	10,36 [53]	10,20 [53]	9,774 [53]	9,607 [53]	75	20:1		
14,02 [53]	13,88 [53]	13,81 [53]	13,08 [53]	12,71 [53]	100	15:1		
21,12 [53]	20,89 [53]	20,45 [53]	19,60 [53]	19,11 [53]	150	10:1		
28,22 [53]	27,87 [53]	27,29 [53]	26,22 [53]	25,50 [53]	200	7.5:1		
42.43 [53]	41.87 [53]	40.96 [53]	39.37 [53]	38.30 [53]	360	5:1		
56.03 [53]	55.86 [53]	54.44 [53]	52.50 [53]	51.10 [53]	480	7.5:1		
85.04 [53]	83.85 [53]	81.99 [53]	78.94 [53]	76.70 [53]	600	5:1		

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

[1] Required Motor Size