

P400

Doseringspump

P400MSESSC10S PUMP WITH GEARBOX AND BASEPLATE



- Flöde 3 - 900 l/h
- Tryck max. 103 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.

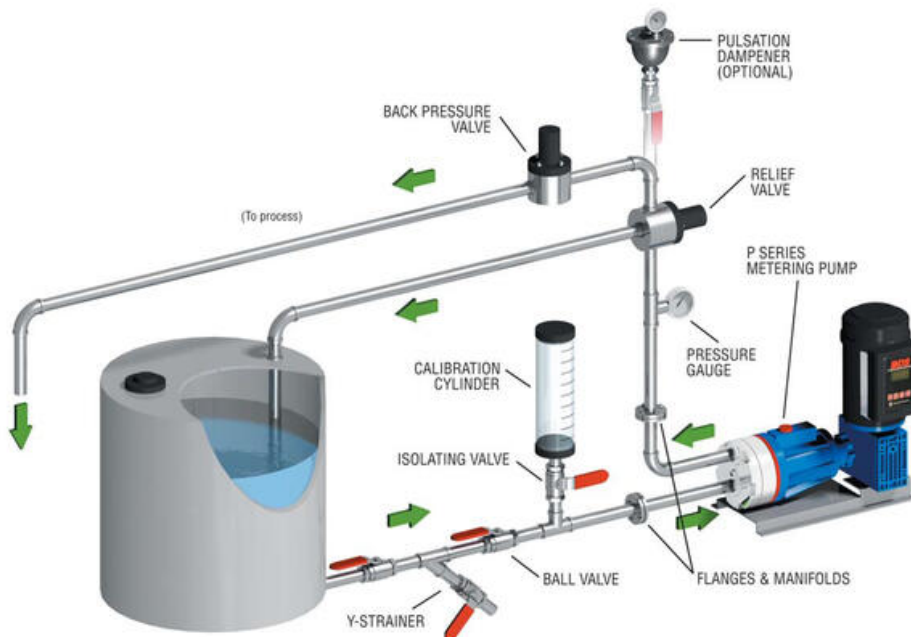
Pumparna har ingen genomgående axel med tätningar och mediet kommer aldrig i kontakt med mekanismen.

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, Gjutjärn, 316L, Hastelloy C, Polypropylen, Kynar
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Membran O-ringar	Aflas, EPDM, FKM, PTFE, Neoprene, Buna-N
Ventilsäten	316L, Keramik, Hastelloy C, Tungsten Carbide
Ventiler	Nitronic 50, Hastelloy C, Keramik, Tungstenkarbid
Fjäder	Elgiloy, Hastelloy C
Fjäderhållare	PVDF, Hastelloy C
Flöde	3 - 900 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. 0,5 mm
Viskositet**	Max. 3000 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	Ja
Anslutningar (In/Ut)	1/2" BSPT / 3/8" BSPT (NPT eller flänsar på förfrågan)
Rotationsriktning	Valfri
Oljevolym hydrauldel	ca. 1,3 l (Oljenivån skall vara ca. 1 - 2 cm under helt fylld hydrauldel)
Vikt metallutförande	22 kg
Vikt plastutförande	16 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.

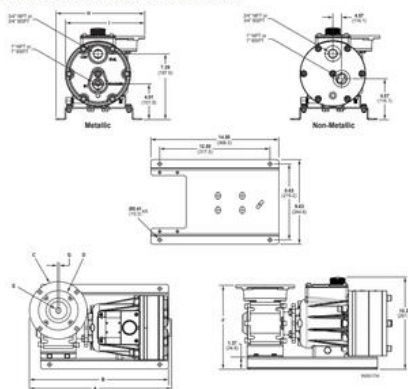
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Teknisk data

Flöde max	228 l/h
Tryck max	69 bar
Systemtryck max	17 bar
Anslutning inlopp	1" BSPT
Anslutning utlopp	3/4" BSPT
Material Bottenplatta	SS 316L
Material Fjäderhållare	Hastelloy C
Material Membran	EPDM
Material Pumphus	SS 316L
Material Ventiler	Nitronic 50
Material Ventilfjädrar	Elgiloy
Material Ventilsäten	SS 316L

Axeldimension	Hålaaxel 24 mm
Rotation	Valfri
Utväxling	10:1 - IEC 90-B5
Temperaturområde till	120 °C
Viskositet max	3000 cP
Olja	Livsmedelolja H1 (K)
Oljevolym Hydrauldel	1,05 l
1098_Particle size (mm)	Max. 0,5mm
Vikt	30 kg

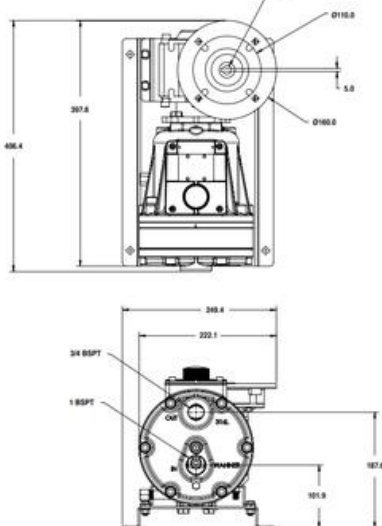
P400 Models: Metallic and Non-Metallic



Dimensions in Inches (Millimeters)

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Representative Drawings (mm)



Performance - Flow Capacities and Pressure Ratings

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

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

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Summary

- Notes:**
1. The motor MW are based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, please contact Weanor International.
 2. Capacity data is shown for pumps with electronic diaphragms. Contact factory for performance characteristics of pumps with PMS diaphragms.
 3. Contact factory for performance specifications.
 4. Based on using 10 meters.
 5. Maximum continuous motor speed is close to at full pressure.
 6. For immersion at reduced viscosity fluids, please contact Weanor International.

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1. The motor life is based on ambient temperature conditions up to 40°C. For ambient temperatures above 40°C, forced-cooled Motors may be required. Please contact Wamnet International.
 2. Tapelift 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 40 motors.
 5. Maximum continuous motor speed is also set at full pressure.
 6. For investments or reduced pressure designs, please contact Wamnet International.
- See Page 4 for Productive Flow Rate Controller.

Mechanical Adjustment Controller for ATEX/Explosive Areas

All Min/Max flow rates in litres/hour

	7 bar		13 bar		54 bar		4th bar	Pump size	Gasoline flow	Model Number	Required Water Size & Pumps
	Min	Max	Min	Max	Min	Max					
4.7	38.8	37.1	37.1	38.7	27.5	25.1	0	24.5	5.30	70.1	METS-7000A 0.530W / REC 0.7 A
	36.5	35.0	35.0	36.7	24.6	22.1		22.5	5.30	70.1	
	49.7	47.8	47.8	49.4	36.0	34.0		35.1			
	48.7	47.0	47.0	49.3	48.0	46.0		47.0			
	39.4	38.4	38.4	39.1	34.0	32.0		33.0			
	35.5	34.0	34.0	35.1	30.3	28.0		29.0			
4.7	202.6	199.0	199.0	203.8	198.2	154.0	0	198.2	154.0	250.0	METS-10000A 1.50W / REC 2.0 A
	202.6	199.0	199.0	203.8	198.2	154.0		198.2	154.0	250.0	
	202.6	199.0	199.0	203.8	198.2	154.0		198.2	154.0	250.0	

P400 Specifications (Cont'd)

Performance Maximum Flow at Designated Pressure - Imperial

All Pumps (gpm)		Metallic Pump Heads Only		Pump rpm	Gear Ratio	Motor rpm
100 psi	250 psi	500 psi	1000 psi			
9.437 (Cu)	9.290 (Cu)	8.491 (Cu)	8.404 (Cu)	30	60:1	1800
11.612 (Cu)	11.283 (Cu)	10.327 (Cu)	10.230 (Cu)	24	75:1	
14.66 (Cu)	14.30 (Cu)	13.37 (Cu)	13.23 (Cu)	45	40:1	
18.73 (Cu)	18.31 (Cu)	16.30 (Cu)	16.06 (Cu)	60	30:1	
23.78 (Cu)	23.32 (Cu)	22.24 (Cu)	21.95 (Cu)	72	25:1	
29.67 (Cu)	29.24 (Cu)	28.15 (Cu)	27.85 (Cu)	90	20:1	
36.40 (Cu)	35.90 (Cu)	34.70 (Cu)	34.34 (Cu)	120	15:1	
43.95 (Cu)	43.43 (Cu)	42.10 (Cu)	41.67 (Cu)	180	10:1	
60.59 (Cu)	59.50 (Cu)	57.41 (Cu)	56.72 (Cu)	240	7.5:1	
121.1 (Cu)	119.6 (Cu)	116.8 (Cu)	115.0 (Cu)	480	3.75:1	
181.6 (Cu)	179.7 (Cu)	176.2 (Cu)	174.4 (Cu)	480	3.75:1	3600
242.1 (Cu)	239.7 (Cu)	235.7 (Cu)	233.5 (Cu)	480	3.75:1	

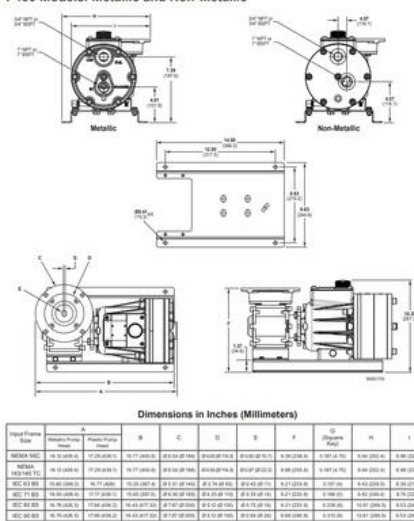
*Capacity data shown is for pumps with elastomeric diaphragms. Consult factory for performance characteristics of pumps with PTFE diaphragms.

Performance Maximum Flow at Designated Pressure - Metric *

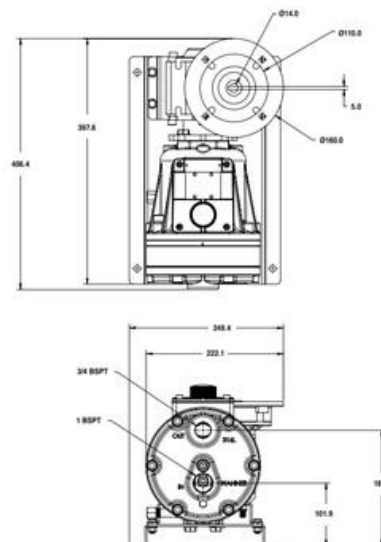
Air Pumps (gals)		Metallic Pump Heads Only (gals)		Pump	Gear	Water
7 bar	10 bar	40 bar	40 bar	40 bar	40 bar	40 bar
50.40 (30.18)	29.27 (18.26)	26.18 (16.26)	26.18 (16.26)	25	40.1	
36.76 (30.18)	35.18 (28.26)	32.17 (26.26)	32.17 (26.26)	30	40.1	
46.25 (30.18)	45.15 (38.26)	42.18 (35.26)	42.18 (35.26)	35	40.1	
62.24 (30.18)	60.20 (28.26)	57.27 (28.26)	57.27 (28.26)	50	30.1	
71.24 (30.18)	71.19 (38.26)	68.26 (38.26)	68.26 (38.26)	60	30.1	
94.23 (30.18)	92.16 (38.26)	89.26 (38.26)	89.26 (38.26)	75	20.1	1500
126.17 (24.18)	124.21 (38.26)	119.87 (38.26)	119.87 (38.26)	100	10.1	
150.19 (20.18)	147.50 (38.26)	144.13 (38.26)	144.13 (38.26)	150	10.1	
254.10 (20.18)	250.79 (38.26)	242.38 (38.26)	242.38 (38.26)	200	7.6	
362.10 (20.18)	358.77 (38.26)	349.65 (38.26)	349.65 (38.26)	300	7.6	
514.10 (20.18)	509.77 (38.26)	497.65 (38.26)	497.65 (38.26)	400	5.1	
763.90 (20.18)	757.1 (38.26)	744.22 (38.26)	744.22 (38.26)	600	5.1	

*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



Representative Drawings (mm)



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 SPM	Gear Ratio	Motor SPM
1.8M - 1.25M	34.8M - 4.0M			
80.8	80.8	40.4	10	80.8
80.8	80.8	40.4	20	80.8
80.8	80.8	40.4	40	80.8
80.8	80.8	40.4	80	80.8
80.8	80.8	40.4	160	80.8
80.8	80.8	40.4	320	80.8
80.8	80.8	40.4	640	80.8
80.8	80.8	40.4	1280	80.8
80.8	80.8	40.4	2560	80.8
80.8	80.8	40.4	5120	80.8
80.8	80.8	40.4	10240	80.8
80.8	80.8	40.4	20480	80.8
80.8	80.8	40.4	40960	80.8
80.8	80.8	40.4	81920	80.8
80.8	80.8	40.4	163840	80.8
80.8	80.8	40.4	327680	80.8
80.8	80.8	40.4	655360	80.8
80.8	80.8	40.4	1310720	80.8
80.8	80.8	40.4	2621440	80.8
80.8	80.8	40.4	5242880	80.8
80.8	80.8	40.4	10485760	80.8
80.8	80.8	40.4	20971520	80.8
80.8	80.8	40.4	41943040	80.8
80.8	80.8	40.4	83886080	80.8
80.8	80.8	40.4	167772160	80.8
80.8	80.8	40.4	335544320	80.8
80.8	80.8	40.4	671088640	80.8
80.8	80.8	40.4	1342177280	80.8
80.8	80.8	40.4	2684354560	80.8
80.8	80.8	40.4	5368709120	80.8
80.8	80.8	40.4	10737418240	80.8
80.8	80.8	40.4	21474836480	80.8
80.8	80.8	40.4	42949672960	80.8
80.8	80.8	40.4	85899345920	80.8
80.8	80.8	40.4	171798691840	80.8
80.8	80.8	40.4	343597383680	80.8
80.8	80.8	40.4	687194767360	80.8
80.8	80.8	40.4	1374389534720	80.8
80.8	80.8	40.4	2748779069440	80.8
80.8	80.8	40.4	5497558138880	80.8
80.8	80.8	40.4	10995116277760	80.8
80.8	80.8	40.4	21990232555520	80.8
80.8	80.8	40.4	43980465111040	80.8
80.8	80.8	40.4	87960930222080	80.8
80.8	80.8	40.4	175921860444160	80.8
80.8	80.8	40.4	351843720888320	80.8
80.8	80.8	40.4	703687441776640	80.8
80.8	80.8	40.4	1407374883553280	80.8
80.8	80.8	40.4	2814749767106560	80.8
80.8	80.8	40.4	5629499534213120	80.8
80.8	80.8	40.4	11258999068426240	80.8
80.8	80.8	40.4	22517998136852480	80.8
80.8	80.8	40.4	45035996273704960	80.8
80.8	80.8	40.4	90071992547409920	80.8
80.8	80.8	40.4	180143985094819840	80.8
80.8	80.8	40.4	360287970189639680	80.8
80.8	80.8	40.4	720575940379279360	80.8
80.8	80.8	40.4	1441151880758558720	80.8
80.8	80.8	40.4	2882303761517117440	80.8
80.8	80.8	40.4	5764607523034234880	80.8
80.8	80.8	40.4	11529215046068469760	80.8
80.8	80.8	40.4	23058430092136939520	80.8
80.8	80.8	40.4	46116860184273879040	80.8
80.8	80.8	40.4	92233720368547758080	80.8
80.8	80.8	40.4	184467440737095516160	80.8
80.8	80.8	40.4	368934881474191032320	80.8
80.8	80.8	40.4	737869762948382064640	80.8
80.8	80.8	40.4	1475739525896764129280	80.8
80.8	80.8	40.4	2951479051793528258560	80.8
80.8	80.8	40.4	5902958103587056517120	80.8
80.8	80.8	40.4	11805916207174113034240	80.8
80.8	80.8	40.4	23611832414348226068480	80.8
80.8	80.8	40.4	47223664828696452136960	80.8
80.8	80.8	40.4	94447329657392904273920	80.8
80.8	80.8	40.4	188894659314785808547840	80.8
80.8	80.8	40.4	377789318629571617095680	80.8
80.8	80.8	40.4	755578637259143234191360	80.8
80.8	80.8	40.4	1511157274518286468382720	80.8
80.8	80.8	40.4	3022314549036572936765440	80.8
80.8	80.8	40.4	6044629098073145873530880	80.8
80.8	80.8	40.4	12089258196146291747061760	80.8
80.8	80.8	40.4	24178516392292583494123520	80.8
80.8	80.8	40.4	48357032784585166988247040	80.8
80.8	80.8	40.4	96714065569170333976494080	80.8
80.8	80.8	40.4	193428131138340667952988160	80.8
80.8	80.8	40.4	386856262276681335905976320	80.8
80.8	80.8	40.4	773712524553362671811952640	80.8
80.8	80.8	40.4	1547425049106725343623905280	80.8
80.8	80.8	40.4	3094850098213450687247810560	80.8
80.8	80.8	40.4	6189700196426901374495621120	80.8
80.8	80.8	40.4	12379400392853802748991242240	80.8
80.8	80.8	40.4	24758800785707605497982484480	80.8
80.8	80.8	40.4	49517601571415210995964968960	80.8
80.8	80.8	40.4	99035203142830421991939937920	80.8
80.8	80.8	40.4	198070406285660843983879875840	80.8
80.8	80.8	40.4	396140812571321687967759751680	80.8
80.8	80.8	40.4	792281625142643375935519503360	80.8
80.8	80.8	40.4	1584563250285286751871039006720	80.8
80.8	80.8	40.4	3169126500570573503742078013440	80.8
80.8	80.8	40.4	6338253001141147007484156026880	80.8
80.8	80.8	40.4	12676506002282294014968312053760	80.8
80.8	80.8	40.4	25353012004564588029936624107520	80.8
80.8	80.8	40.4	50706024009129176059873248215040	80.8
80.8	80.8	40.4	101412048018258352119746486430080	80.8
80.8	80.8	40.4	202824096036516704239492972860160	80.8
80.8	80.8	40.4	405648192073033408478985945720320	80.8
80.8	80.8	40.4	811296384146066816957971891440640	80.8
80.8	80.8	40.4	1622592768292133633915943782881280	80.8
80.8	80.8	40.4	3245185536584267267831887565762560	80.8
80.8	80.8	40.4	6490371073168534535663775131525120	80.8
80.8	80.8	40.4	12980742146337069071327550263050240	80.8
80.8	80.8	40.4	25961484292674138142655100526100480	80.8
80.8	80.8	40.4	51922968585348276285310201052200960	80.8
80.8	80.8	40.4	103845937170696552570620402104401920	80.8
80.8	80.8	40.4	207691874341393105141240804208803840	80.8
80.8	80.8	40.4	415383748682786210282481608417607680	80.8
80.8	80.8	40.4	830767497365572420564963216835215360	80.8
80.8	80.8	40.4	1661534994731144841129926433670430720	80.8
80.8	80.8	40.4	3323069989462289682259852867340861440	80.8
80.8	80.8	40.4	6646139978924579364519705734681722880	80.8
80.8	80.8	40.4	13292279957849158729039411469363445760	80.8
80.8	80.8	40.4	26584559915698317458078822938726891520	80.8
80.8	80.8	40.4	53169119831396634916157645877453783040	80.8
80.8	80.8	40.4	106338239662793269832315291755107566080	80.8
80.8	80.8	40.4	212676479325586539664630583510215132160	80.8
80.8	80.8	40.4	425352958651173079329261167020430264320	80.8
80.8	80.8	40.4	850705917302346158658522334040860528640	80.8
80.8	80.8	40.4	1701411834604692317317104668081721057280	80.8
80.8	80.8	40.4	3402823669209384634634209336163442114560	80.8
80.8	80.8	40.4	6805647338418769269268418672326884229120	80.8
80.8	80.8	40.4	13611294676837538538536837344653768458240	80.8
80.8	80.8	40.4	2722258935367507707707367468930753691520	80.8
80.8	80.8	40.4	5444517870735015415414734937861507383040	80.8
80.8	80.8	40.4	10889035741470030830829469875723014766080	80.8
80.8	80.8	40.4	21778071482940061661658939751446029532160	80.8
80.8	80.8	40.4	43556142965880123323317879502892059064320	80.8
80.8	80.8	40.4	87112285931760246646635759005784118128640	80.8
80.8	80.8	40.4	174224571863520493293271518011568236257280	80.8
80.8	80.8	40.4	348449143727040986586543036023136472514560	80.8
80.8	80.8	40.4	696898287454081973173086072046272945029120	80.8
80.8	80.8	40.4	1393796574908163946346172140092549890058240	80.8
80.8	80.8	40.4	2787593149816327892692344280185099780116480	80.8
80.8	80.8	40.4	5575186299632655785384688560370199560232960	80.8
80.8	80.8	40.4	11150372599265311570769377120740399120465920	80.8
80.8	80.8	40.4	22300745198530623141538754441480798240931840	80.8
80.8	80.8	40.4	44601490397061246283077508882961596481863680	80.8
80.8	80.8	40.4	89202980794122492566155017765923192963727360	80.8
80.8	80.8	40.4	178405961588244985132310035531846385927454720	80.8
80.8	80.8	40.4	356811923176489970264620071063692771854909440	80.8
80.8	80.8	40.4	713623846352979940529240142127385543709818880	80.8
80.8	80.8	40.4	1427247692705959881058480284254771087419637760	80.8
80.8	80.8	40.4	2854495385411919762116965688509542174839275520	80.8
80.8	80.8	40.4	570899077082383952423393137701908434967855040	80.8
80.8	80.8	40.4	1141798154164767904846786275403816899357710080	80.8
80.8	80.8	40.4	2283596308329535809693572550807633798715421120	80.8
80.8	80.8	40.4	4567192616659071619387145101615267597430842240	80.8
80.8	80.8	40.4	9134385233318143238774290203230535194861684480	80.8
80.8	80.8	40.4	18268770466636286477548580406461070389723368960	80.8
80.8	80.8	40.4	36537540933272572955097168129322140799446737920	80.8
80.8	80.8	40.4	73075081866545145910194336258644281598893475840	80.8
80.8	80.8	40.4	146150163733090291820388672517288571997786951680	80.8
80.8	80.8	40.4	292300327466180583640777345034577159955773903360	80.8
80.8	80.8	40.4	584600654932361167281554690069154319911547806720	80.8
80.8	80.8	40.4	1169201309864722334563109380138308639823095613440	80.8
80.8	80.8	40.4	2338402619729444669126217600276617279646191226880	80.8
80.8	80.8	40.4	4676805239458889338252435200553234559292382453760	80.8
80.8	80.8	40.4	9353610478917778676504870401106469118558764907520	80.8
80.8	80.8	40.4	18707220957835557353009740802212938371117529815040	80.8
80.8	80.8	40.4	37414441915671114706019481604425876742235059630080	80.8
80.8	80.8	40.4	74828883831342229412038963208851753484470119260160	80.8