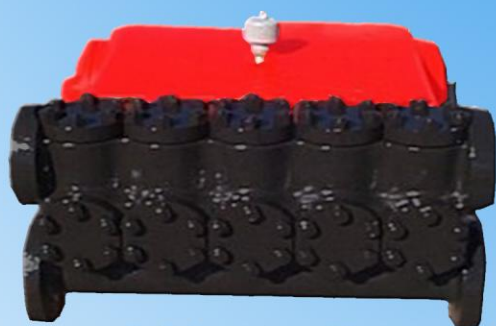
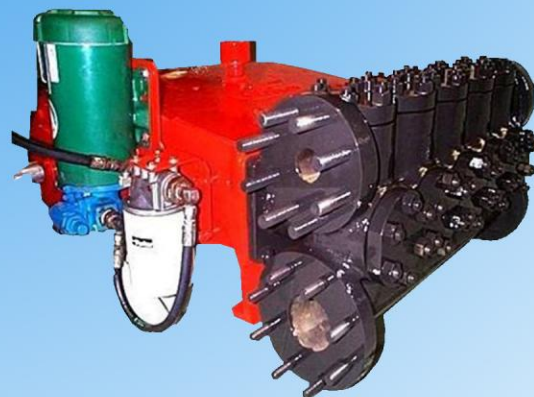




BGS 165-M



BGS Q 4240M-L



BGS Q 165-SL

PUMPS

BGS P-200-A
BGS 5P 200-B
BGS 365-M
BGS 365-L
BGS 165-SL
BGS HP 165-M
BGS HP 165-L
BGS Q 4240-M
BGS Q 4240-L

BG&S HIGH QUALITY PARTS ARE ALL MADE IN THE U.S.A.

Field Proven Reliability Since 1984

Founded in 1984 BG &S of Skiatook Ok, has an established reputation for providing quality, dependable products to the world-wide petroleum industry. For more than 25 years BG &S's advanced technology has solved industry's flow control problems. The result is a complete line reciprocating plunger pumps, from 10 to 200 horsepower, ideally suited for salt water disposal, water-blast, reverse osmosis, and a variety of other industrial applications.

Built Tough From the Same Mold

Designed for durability, easy maintenance, and simple installation. Whether your application is a low pressure or high in volumes from 1.4 to 238 gallons per minute, T365 series pump can handle it. Choose BG &S pumps for continuous high volumetric efficiency, day after day... year after year.

Power End Features:

Bg &S's Exclusive Offset Crankshaft
By offsetting the crankshaft, our engineers have reduced vertical thrust loads by more than 40 percent. Crankshaft vibration is virtually eliminated and friction, heat and wear are significantly reduced.

Low Profile Power Frame

BG &S pumps feature a low profile power end making them particularly suitable for close-quarter applications. Our power frames are manufactured from close-grained, one-piece castings. They are precision-bored to provide dimensional stability and matched alignment of the stuffing box, wiper box, crosshead, pony rod and plunger.

High Capacity Roller Bearings

We have simplified the alignment of the high-capacity tapered roller bearings to allow for easy adjustment from outside the pump. Bearing housings are precision-machined and interchangeable.

BG &S also offers BG &S made parts and service for most all GASO, WHEATLEY, GARDNER DENVER, KERR, NATIONAL OILWELL, AND APLEX.

Fluid End Features:

Your Choice of Materials

All BG &S fluid end products are precision-machined to exacting tolerances. **BGS T365 SERIES** fluid ends are available in aluminum bronze, ductile iron, cast steel, forged steel to meet your application. Dual suction and discharge connections provide for the attachment relief valves bypass circuits, pressure gauges, dampeners or other accessories.

Packing

BG &S offers several packing options, at no extra charge, to meet most pumping applications. The following table describes our standard packing availability. Other packing materials are available on request. Spring loaded packing also available at an extra charge. Call factory for complete details.

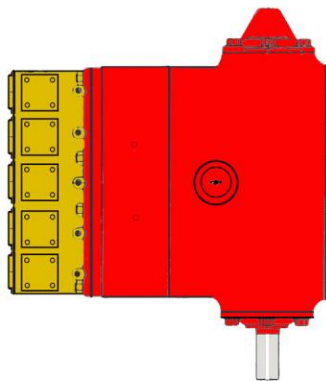
DESCRIPTION/APPLICATION
Hard-core, non-adjustable for general service. Lubrication required.
Hard-core, none adjustable for broader temperature range. Lubrication preferred.
Adjustable braided for Amine, Glycol or similar service. No lubrication required.
Adjustable alternating rings of flax and lead for higher temperature applications. No lubrication required.

Precision Pump Valves

Precision machining and strict quality control standards assure proper valve standoff and maximum operating life. Standard valve construction features Celcon or formed stainless steel discs with stainless seats. Synthetic seal wing-guide valves are optional. Other seat and disc materials are also available to meet your application requirements.

ALSO FEATURING COMPLETE LINE OF TULSA PUMPS AND BETHLEHEM PUMPS 10 TO 200 HORSE POWER.

**PERFORMANCE CHART
FOR BGS 5P 200A
BOLT ON
FLUID END COVERS**



Displacement Volume (100% V. E.)			Pump Speed In Crankshaft Revolutions Per Minute					
G.P.M	B.P.H.	B.P.D.	1- 1/8" 2050 PSI	1- 1/4" 1660 PSI	1- 3/8" 1370 PSI	1- 1/2" 1150 PSI	1- 5/8" 980 PSI	1- 3/4" 845 PSI
7	10	240	144	117	97	81	69	60
10.5	15	360	216	176	145	122	104	90
14	20	480	289	234	193	163	139	119
17.5	25	600	361	293	242	203	173	149
21	30	720	433	351	290	244	208	179
24.5	35	840		410	339	285	242	209
28	40	960		468	387	325	277	239
31.5	45	1080			435	366	312	269
35	50	1200			484	407	347	298
38.5	55	1320				447	381	329
42	60	1440				488	416	359
45.5	65	1560					450	388
49	70	1680					485	418
52.5	75	1800						448
56	80	1920						478
G.P.M. Factor			.04841	.05977	.70233	.08606	.10100	.11714
B.P.H. Factor			.06916	.08538	.10333	.12294	.14429	.16734

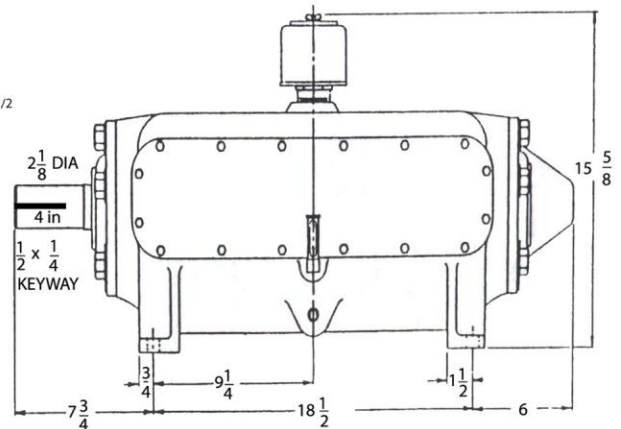
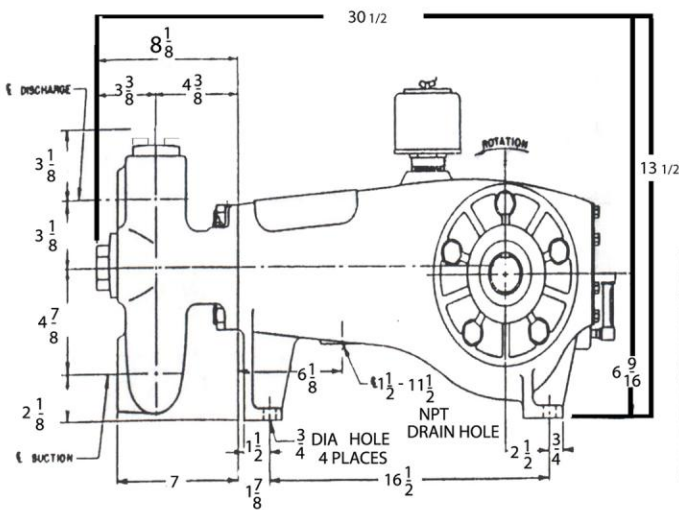
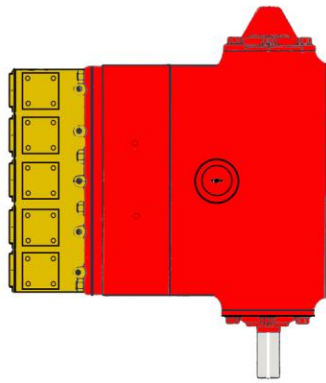
500 R. P. M. MAX.

$$H P = \frac{B. P. H. \times P. S. I.}{2200}$$

All Figures Based on 100% Volumetric Efficiency

BGS

**PUMP DIMENSIONS
FOR BGS 5P 200A
BOLT ON
FLUID END COVERS**



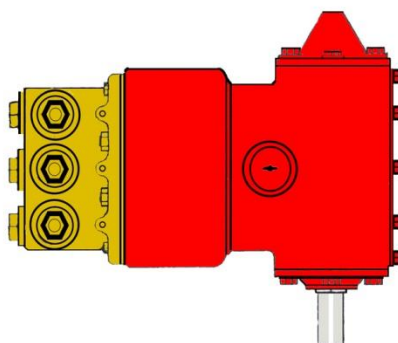
BGS

BGS 200B

Performance Chart

1 - 1/8" to 1 - 3/4" x 2 - 3/16"

Triplex Plunger Pump

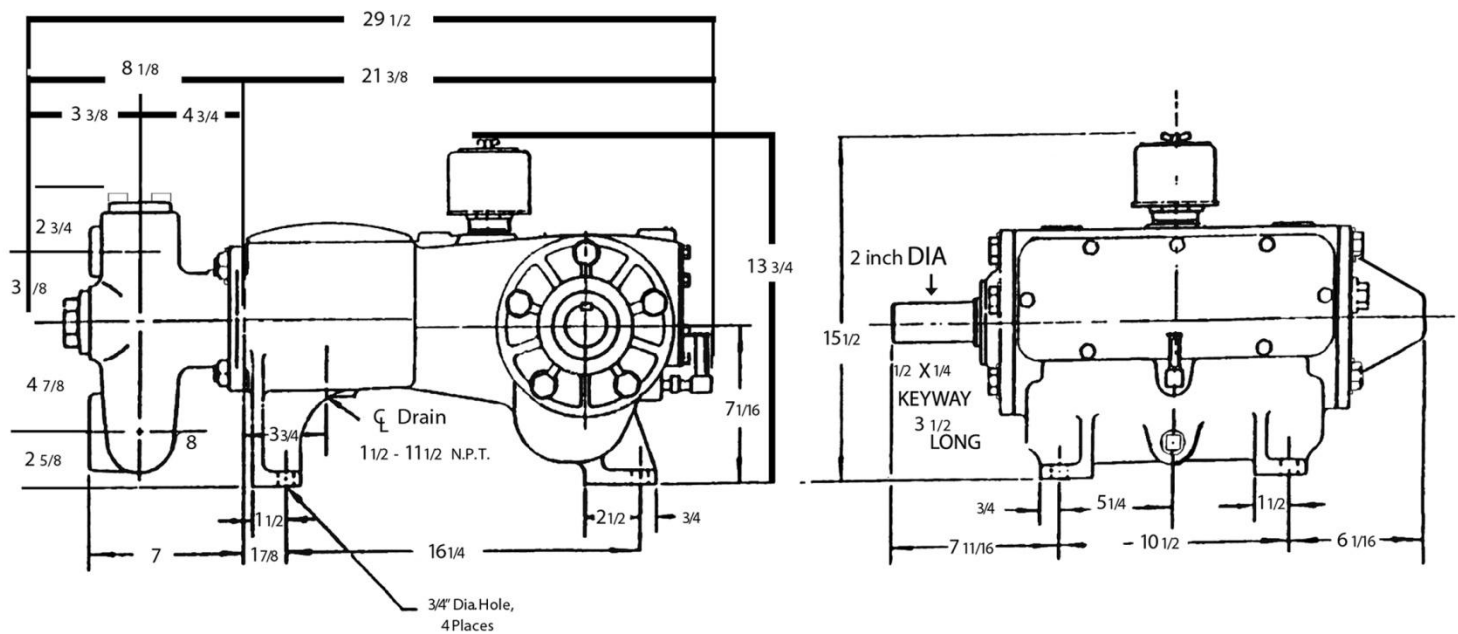
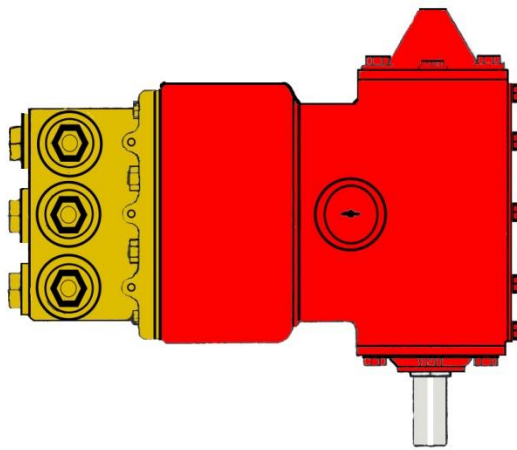


Displacement Volumes (100% V.E.)			Pump Speed In Crankshaft Revolutions Per Minute					
GPM	BPH	BPD	1-1/8" 2050 PSI	1-1/4" 1660 PSI	1-3/8" 1370 PSI	1-1/2" 1150 PSI	1-5/8" 980 PSI	1-3/4" 845 PSI
1.4	2	48	50					
2.1	3	72	74	60	50			
2.8	4	96	99	80	66	56		
3.5	5	120	124	100	83	70	59	51
4.2	6	144	149	120	100	84	71	61
4.9	7	168	174	141	116	112	83	72
5.6	8	192	198	161	133	126	95	82
6.3	9	216	223	181	149	139	107	92
7.0	10	240	248	201	166	153	119	102
7.7	11	264	273	221	182	167	131	113
8.4	12	288	297	241	199	181	143	123
9.1	13	312	322	261	216	195	154	133
9.8	14	336	347	281	232	209	166	143
10.5	15	360	372	301	249	223	178	154
11.2	16	384	397	321	265	237	190	164
11.9	17	408	421	341	282	251	202	174
12.6	18	432	446	361	299	265	214	184
13.3	19	456	471	382	315	279	226	195
14.0	20	480	496	402	332	293	238	205
14.7	21	504		422	348	307	249	215
15.4	22	528		442	365	321	261	225
16.1	23	552		462	381	335	273	236
16.8	24	576		482	398	349	285	246
17.5	25	600			415	363	297	256
18.2	26	624			431	377	309	266
18.9	27	648			448	390	321	277
19.6	28	672			464	404	33	287
20.3	29	696			481	418	344	297
21.0	30	720			498	446	356	307
22.4	32	768				474	380	328
23.8	34	816				502	404	348
25.2	36	864					428	369
26.6	38	912					451	389
28.0	40	960					475	410
29.4	42	1008					499	430
30.8	44	1056						451
32.2	46	1104						471
33.6	48	1152						492
G.P.M. FACTOR			.0282	.0349	.0422	.0502	.0589	.0683
B.P.H. FACTOR			.0403	.0498	.0603	.0717	.0842	.0976

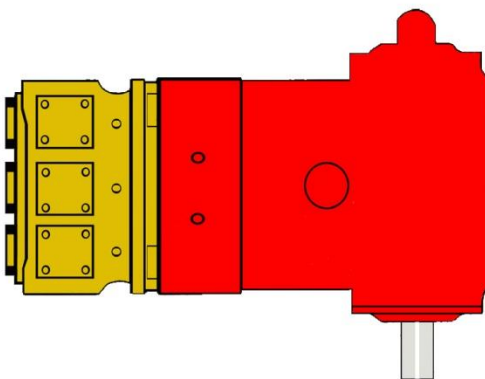
$$\text{BPH} \times \text{PSI} \text{ DIVIDED BY } 2200 = \text{HP}$$

All Figures Based on 100% Volumetric Efficiency In Water

BGS P200B
With Bolt on
Fluid End Caps



BGS 365 M
PERFORMANCE CHART
1-1/2" TO 2-1/4" X 3-1/2"
TRIPLEX PLUNGER PUMP



PLGR. DIA. (INCH)		1-1/2	1-5/8	1-3/4	1-7/8	2	2-1/8	2-1/4
MAX. PRESS. (PSI)		2695	2295	1980	1725	1515	1340	1200
DISPLACEMENT VOLUME		PUMP SPEED IN CRANKSHAFT						
GPM	BPH	REVOLUTIONS PER MINUTE						
7.0	10	87	74	64				
10.5	15	131	111	96	84	74	65	
14.0	20	174	148	128	112	98	87	77
17.5	25	218	186	160	139	123	109	97
21.0	30	262	223	192	167	147	130	116
24.5	35	305	260	224	195	172	152	136
28.0	40	349	297	256	223	196	174	155
31.5	45	392	334	288	251	221	195	174
35.0	50		291	320	279	245	217	194
38.5	55		408	352	307	270	239	213
42.0	60			384	335	294	261	232
43.5	65			416	363	319	282	252
49.0	70				390	343	304	271
52.5	75				418	368	326	290
56.0	80					392	347	310
59.5	85					417	369	329
63.0	90						391	349
66.5	95						413	368
70.0	100							387
73.5	105							407
77.0	110							426
GPM/RPM		.0803	.0943	.1093	.1255	.1428	.1612	.1807
BPH/RPM		.1147	.1347	.1561	.1793	.2040	.2303	.2581

Brake Horsepower (BHP) = (GPM X PSI) / 1540 BHP Based on 90% Mechanical Efficiency

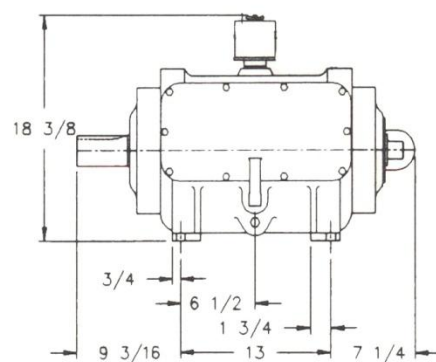
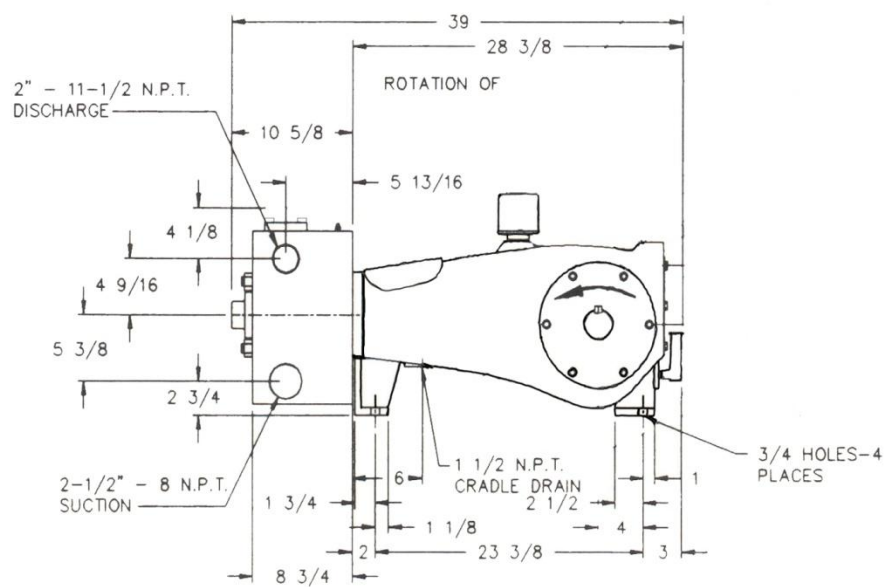
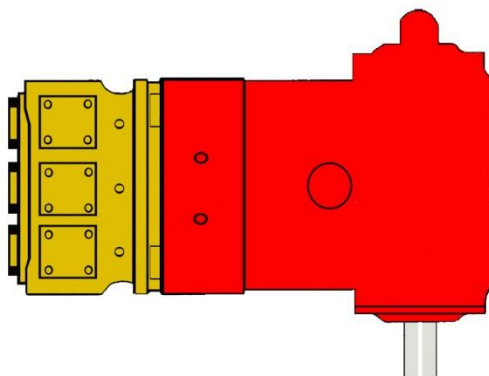
Displacement Volume Based on 100% Volumetric Efficiency

Plunger Load = 4760 lbf Maximum Pump Speed = 500 RPM

Continuous Speeds: Min. = 50 RPM, MAX. = 420 RPM Intermittent Speeds: = 50 RPM, MAX = 460 RPM

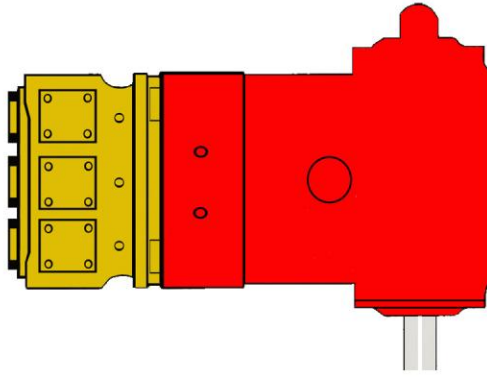
The above Continuous and Intermittent speeds are based on maximum plunger pressures. Operation at speeds either above or below these values require BG & S Engineering Approval.

DIMENSION CHART
BGS 365M
Bolt on
Fluid End Covers



BGS

PERFORMANCE CHART
BGS 365 L
 2 - 3/8" to 3" X 3-1/2"
 TRIPLEX PUMP



PUMP MODEL		BGS 365 L					
MAX. PRESS. (PSI)		1075	970	880	800	735	675
PLUNGER DIA. (INCHES)		2-3/8"	2-1/2"	2-5/8"	2-3/4"	2-7/8"	3"
DISPLACEMENT VOLUME 100% V.E.		PUMP SPEED IN REVOLUTIONS PER MINUTE					
GPM	BPH						
14.0	20	70	63				
17.5	25	87	78	71	65		
21.0	30	104	94	85	78	71	65
24.5	35	122	110	100	91	83	76
28.0	40	139	125	114	104	95	87
31.5	45	156	141	128	117	107	98
35.0	50	174	157	142	130	119	109
38.5	55	191	173	157	143	130	120
42.0	60	209	188	171	156	142	131
43.5	65	226	204	185	169	154	142
49.0	70	243	220	199	181	166	153
52.5	75	261	235	213	194	178	163
56.0	80	278	251	228	207	190	174
59.5	85	295	267	242	220	202	185
63.0	90	313	282	256	233	213	196
66.5	95	330	298	270	246	225	207
70.0	100	348	314	285	259	237	218
73.5	105	365	329	299	272	249	229
77.0	110	382	345	313	285	261	240
80.5	115	400	361	327	298	273	251
84.0	120	417	376	341	311	285	261
87.5	125		392	356	324	296	272
91.0	130		408	370	337	308	283
94.5	135		424	384	350	332	294
98.0	140			398	363	344	305
101.5	145			413	376	356	316
105.0	150				389	368	327
108.5	155				402	380	338
112.0	160				415	403	349
119.0	165					427	370
126.0	180						392
133.0	190						414
GPM PER RPM		0.2014	0.2231	0.2460	0.2700	0.2951	0.3213
BPH PER RPM		0.2877	0.3187	0.3514	0.3857	0.4216	0.4590

BRAKE HORSEPOWER (BHP) - (GPM X PSI) / 1540

BRAKE HORSEPOWER IS BASED ON 90% MECH. EFF.

DISPLACEMENT VOLUME BASED ON 100% VOMETRIC EFFICIENCY

PLUNGER LOAD = 4760 lbf

MAXIMUM PUMP SPEED = 500 RPM

CONTINUOUS SPEEDS: MINIMUM = 75 RPM, MAXIMUM = 420 RPM

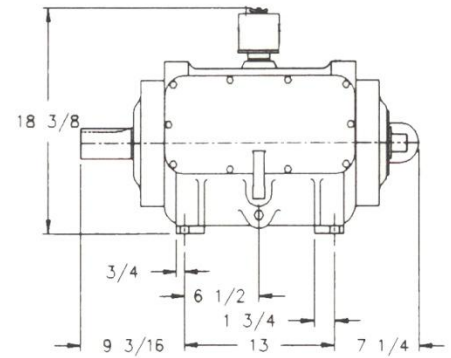
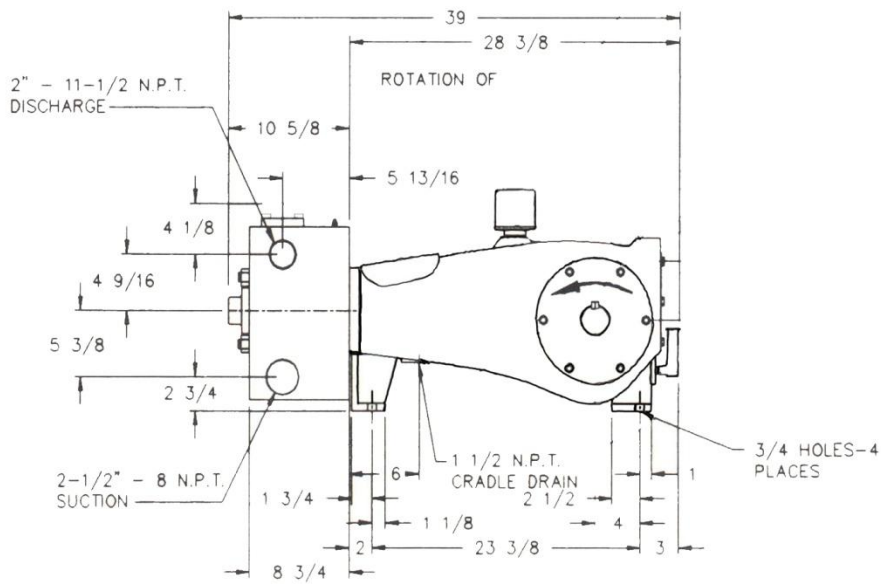
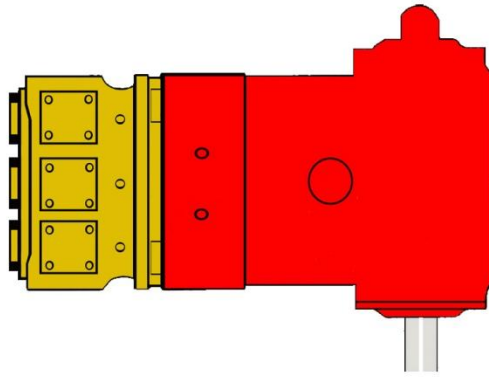
INTERMITTENT SPEEDS: MINIMUM = 50 RPM, MAXIMUM = 460 RPM

PUMP DIMENSIONS

BGS 365 L

2 - 3/8" to 3" X 3-1/2"

TRIPLEX PUMP



BGS

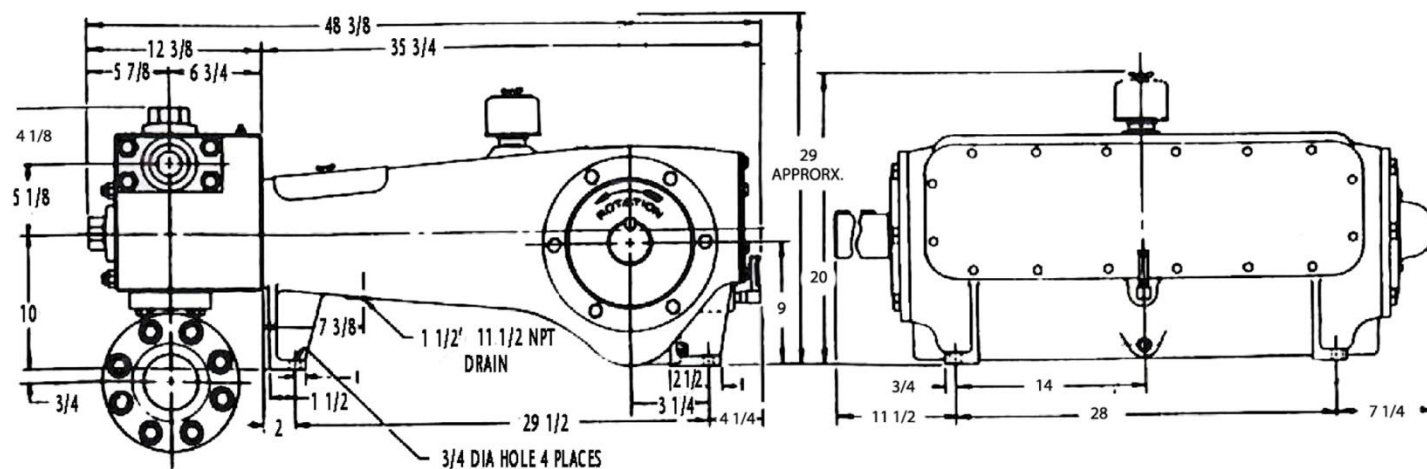
**GENERAL DIMENSIONS
FOR BGS 165-M
SUPER LUBE
1 5/8" to 2 1/2 x 4 1/2"
QUINTUPLEX PLUNGER PUMP**



DISPLACEMENT VOLUMES (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute						
GPM	BPH	BPD	1-5/8" 3180 psi	1-3/4" 2745 psi	1- 7/8" 2390 psi	2" 2100 psi	2-1/8" 1860 psi	2-1/4" 1345 psi	2-1/2" 1345 psi
14	20	480	69	60	52				
21	30	720	104	90	78	69	61	54	
28	40	960	139	120	104	92	81	72	59
35	50	1200	173	149	130	114	101	90	73
42	60	1440	208	179	156	137	122	108	88
49	70	1680	243	209	182	160	142	127	102
56	80	1920	277	239	208	183	162	145	117
63	90	2160	312	269	234	206	182	163	132
70	100	2400	347	299	260	229	203	181	146
77	110	2640	381	329	286	252	223	199	161
84	120	2880		359	312	275	243	217	176
91	130	3120			338	297	263	235	190
98	140	3360			364	320	284	253	205
105	150	3600			390	343	304	271	220
112	160	3840				366	324	289	234
119	170	4080				389	344	307	249
126	180	4320					365	325	264
133	190	4560					385	343	278
140	200	4800						361	293
147	210	5040						380	307
154	220	5280						398	322
161	230	5520							337
168	240	5760							351
175	250	6000							366
182	260	6240							381
189	270	6480							395
GPM FACTOR			.2020	.2343	.2689	.3060	.3455	.3873	.4781
BPH FACTOR			.2886	.3347	.3842	.4371	.4935	.5533	.6830

$$\text{Input H.P.} = \text{BPH} \times \text{PSI} \div 2200$$

All figures based on 100% volumetric efficiency in water.



BGS Q 165-M
1 5/8" to 2 1/2 x 4 1/2"
QUINTUPLEX PLUNGER PUMP

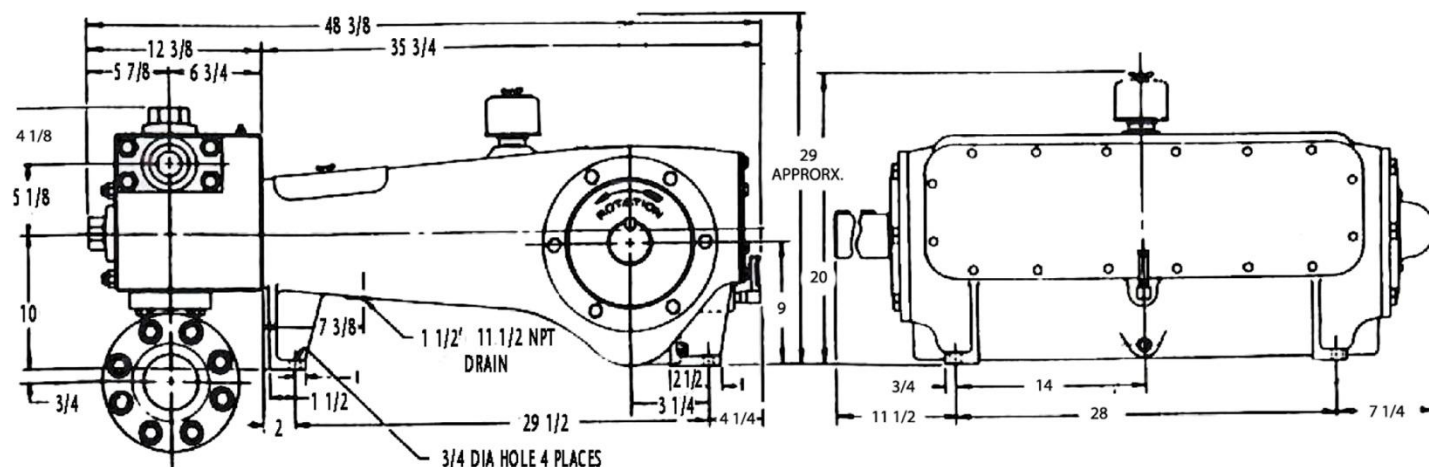


DISPLACEMENT VOLUMES (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute						
GPM	BPH	BPD	1-5/8" 3180 psi	1-3/4" 2745 psi	1- 7/8" 2390 psi	2" 2100 psi	2-1/8" 1860 psi	2-1/4" 1345 psi	2-1/2" 1345 psi
14	20	480	69	60	52				
21	30	720	104	90	78	69	61	54	
28	40	960	139	120	104	92	81	72	59
35	50	1200	173	149	130	114	101	90	73
42	60	1440	208	179	156	137	122	108	88
49	70	1680	243	209	182	160	142	127	102
56	80	1920	277	239	208	183	162	145	117
63	90	2160	312	269	234	206	182	163	132
70	100	2400	347	299	260	229	203	181	146
77	110	2640	381	329	286	252	223	199	161
84	120	2880		359	312	275	243	217	176
91	130	3120			338	297	263	235	190
98	140	3360			364	320	284	253	205
105	150	3600			390	343	304	271	220
112	160	3840				366	324	289	234
119	170	4080				389	344	307	249
126	180	4320					365	325	264
133	190	4560					385	343	278
140	200	4800						361	293
147	210	5040						380	307
154	220	5280						398	322
161	230	5520							337
168	240	5760							351
175	250	6000							366
182	260	6240							381
189	270	6480							395
GPM FACTOR			.2020	.2343	.2689	.3060	.3455	.3873	.4781
BPH FACTOR			.2886	.3347	.3842	.4371	.4935	.5533	.6830

$$\text{Input H.P.} = \text{BPH} \times \text{PSI} \div 2200$$

All figures based on 100% volumetric efficiency in water.

GENERAL DIMENSIONS
FOR BGS 165 M
1 5/8 - 2 1/2 X 4 1/2
QUINTUPLEX PLUNGER PUMP



BG & S

GENERAL DIMENSIONS
FOR BGS 165 L
1 5/8 - 2 1/2 X 4 1/2
QUINTUPLEX PLUNGER PUMP

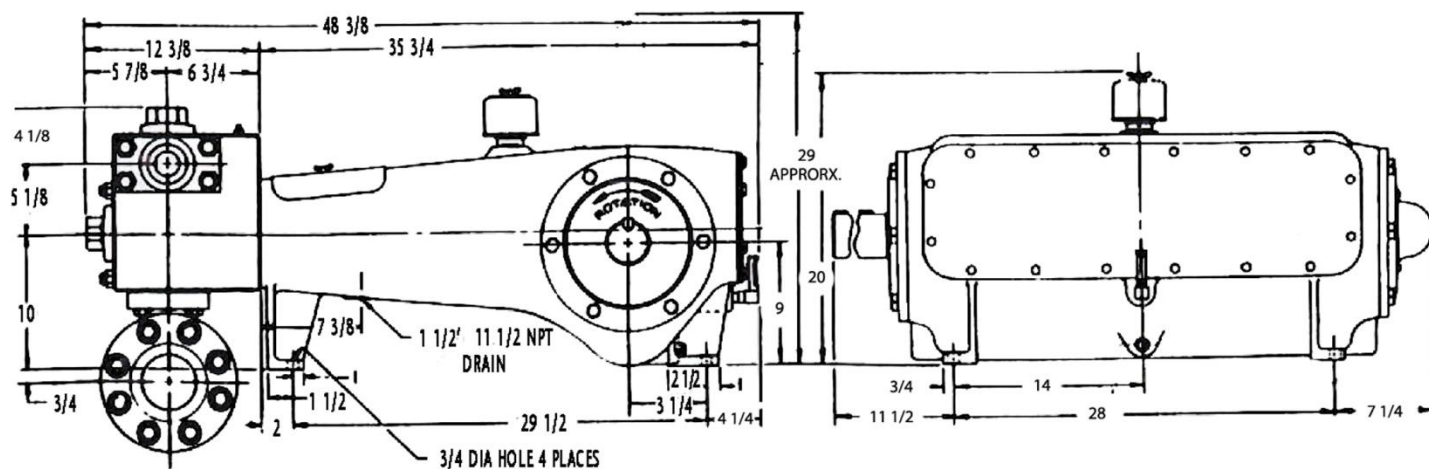


DISPLACEMENT VOLUMES (100% V.E.)			Pump Speeds in Crankshaft Revolutions Per Minute			
GPM	BPH	BPD	2-1/4" 1110 psi	3" 935 psi	3- 1/4" 800 psi	3-1/8" 740 psi
42	60	1440	73	61	52	
56	80	1920	97	81	69	64
70	100	2400	121	101	87	80
84	120	2880	145	122	104	96
98	140	3360	169	142	121	112
112	160	3840	193	163	138	128
126	180	4320	218	183	156	144
140	200	4800	242	203	173	161
154	220	5280	266	223	190	177
168	240	5760	290	244	208	193
182	260	6240	314	264	225	209
196	280	6720	338	284	242	225
210	300	7200	363	305	260	241
224	320	7680	387	325	277	257
238	340	8160		345	294	273
252	360	8640		366	312	289
266	380	9120		386	329	305
280	400	9600			346	321
294	420	10080			363	337
322	460	11040			398	369
336	480	11520				385
GPM FACTOR			.5785	.6885	.8080	.8714
BPH FACTOR			.8272	.9845	.1.554	1.2461

$$\text{Input H.P.} = \text{BPH} \times \text{PSI} \div 2200$$

All figures based on 100% volumetric efficiency in water.

GENERAL DIMENSIONS
FOR BGS 165 L
1 5/8 - 2 1/2 X 4 1/2
QUINTUPLEX PLUNGER PUMP



BG & S

BGS Q- 4240M
1- 3/4' to 3- 3/4" x 4- 1/2"
QUINTUPLEX PUMP



POWER MODEL		BGS Q-4240M					
MAX. PRESS. (PSI)		3600	3190	2800	2480	2210	1790
PLNGR. DIA. (INCHES)		1-3/4"	1-7/8"	2"	2-1/8"	2-1/4"	2-1/2"
DISPLACEMENT VOLUME 100% V. E.		PUMP SPEED IN REVOLUTIONS PER MINUTE					
GPM	BPH						
28	40	120	104				
35	50	149	130	114	101		
42	60	179	156	137	122	108	
56	80	239	208	183	162	145	117
70	100	299	260	229	203	181	146
84	120	349	312	275	243	217	176
98	140	418	364	320	284	253	205
112	160		416	366	324	289	234
126	180			411	365	325	264
140	200				405	361	293
154	220					397	322
168	240						351
182	260						381
198	280						414
GPM PER RPM		.2343	.2689	.3060	.3455	.3873	.4781
BPH PER RPM		.3347	.3842	.4371	.4935	.5533	.6830

BRAKE HORSEPOWER (BHP) = GPM X PSI ÷ 1540

BRAKE HORSEPOWER IS BASED ON 90% MECH. EFF.

CONTINUOUS SPEEDS: MINIMUM = 125 RPM, MAXIMUM =

INTERMITTENT SPEEDS: MINIMUM = 100 RPM, MAXIMUM =

390 RPM

430 RPM

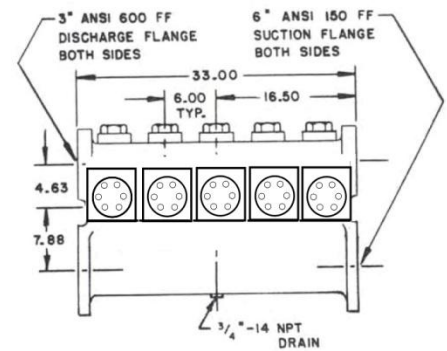
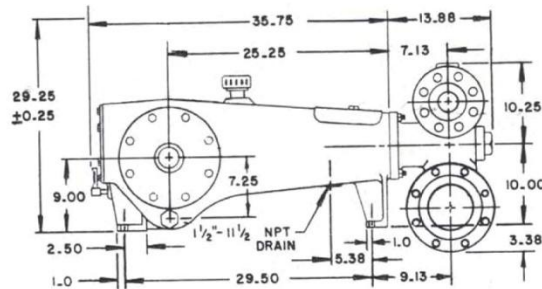
GENERAL DIMENSIONS
FOR
BG & S Q-4240M
2- 3/4" to 3- 3/8" x 4- 1/2"
QUINTUPLEX PLUNGER PUMP



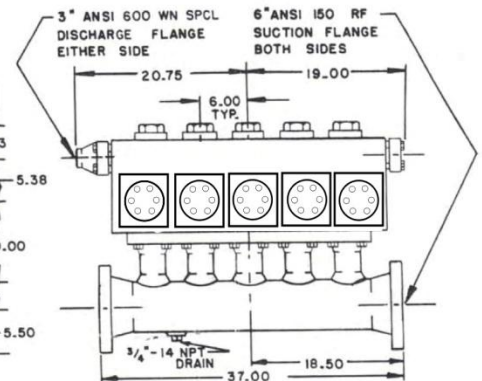
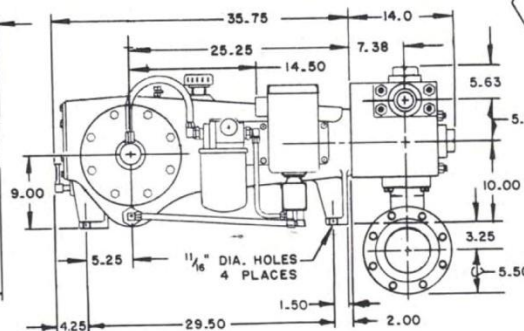
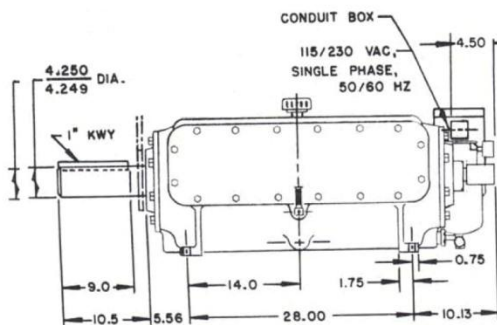
(LEFT HAND DRIVE-ENGLISH UNITS)

NOTE 1 * ALL DIMENSIONS ARE IN INCHES.

NOTE 2 * FOR INSTALLATION PURPOSES —
TOLERANCE ON ALL DIMENSIONS
IS ± 0.13 INCH
UNLESS OTHERWISE NOTED.



CAST FLUID END



FORGED FLUID END

BG & S

BGS Q- 4240L
1- 3/4' to 3- 3/8" x 4- 1/2"
QUINTUPLEX PUMP



POWER MODEL		BGS Q-4240L			
MAX. PRESS. (PSI)		1440	1245	1060	985
PLNGR. DIA. (INCHES)		2-3/4"	3"	3-1/4"	3-3/8"
DISPLACEMENT VOLUME 100% V. E.		PUMP SPEED IN REVOLUTIONS PER MINUTE			
GMP	BPH				
70	100	121	101		
84	120	145	122	104	
98	140	169	142	121	112
112	160	193	163	138	128
126	180	218	183	156	144
140	200	242	203	173	161
154	220	266	223	190	177
168	240	290	244	208	193
182	260	314	264	225	209
198	280	338	284	242	225
210	300	363	305	260	241
224	320	387	325	277	257
238	340	411	345	294	273
252	360		366	312	289
266	380		386	329	305
280	400		406	346	321
294	420		427	363	337
308	440			381	353
322	460			398	369
336	480			415	385
350	500				401
364	520				417
GPM PER RPM		.5785	.6885	.8080	.8714
BPH PER RPM		.8272	.9845	1.1554	1.2461

BRAKE HORSEPOWER (BHP) = GPM X PSI ÷ 1540
 BRAKE HORSEPOWER IS BASED ON 90% MECH. EFF.

CONTINUOUS SPEEDS: MINIMUM = 125 RPM, MAXIMUM = 390 RPM
 INTERMITTENT SPEEDS: MINIMUM = 100 RPM, MAXIMUM = 430 RPM

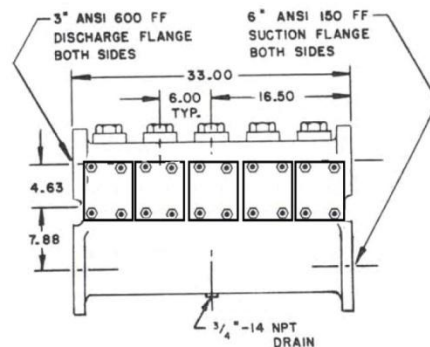
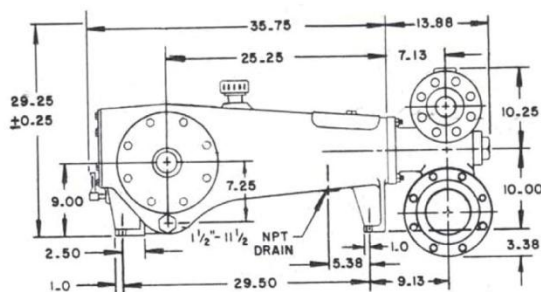
GENERAL DIMENSIONS
FOR
BG &S Q-4240L
2- 3/4" to 3- 3/8" x 4- 1/2"
QUINTUPLEX PLUNGER PUMP



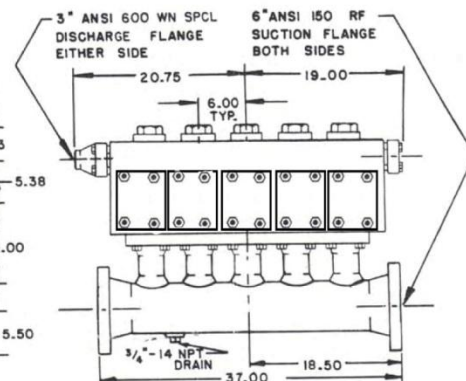
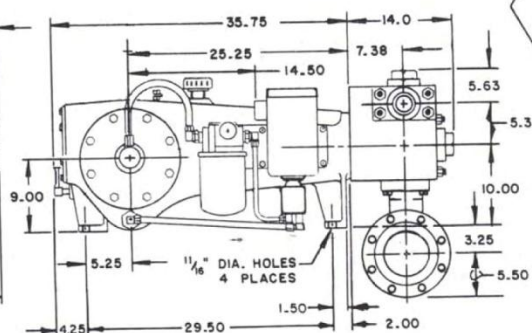
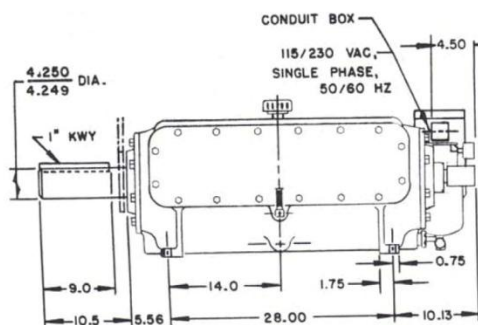
(LEFT HAND DRIVE-ENGLISH UNITS)

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CAST FLUID END



FORGED FLUID END

BG &S

p u m p s



on
Skids



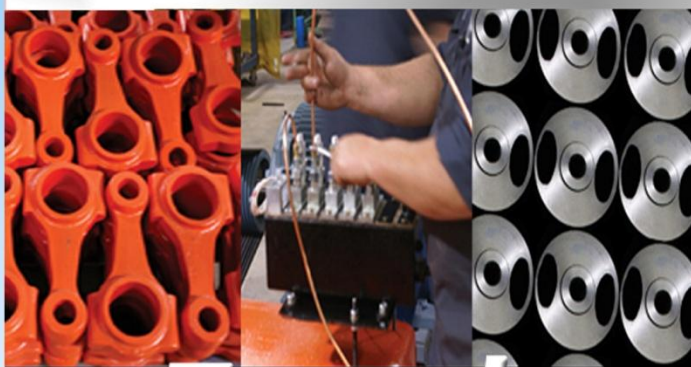
p u m p s



on
Trailers



Built



Tough



Extremely



Corrosion Resistant

any pump can be



**retrofitted with a
self-lub application**



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