



# BARGE "MPX 421"

## PORT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,105	0	2,210	0	3,315	0	4,420	0	5,525	0		0		0		0	
1/4	23	1/4	1,128	1/4	2,233	1/4	3,338	1/4	4,443	1/4	5,548	1/4		1/4		1/4		1/4	
1/2	46	1/2	1,151	1/2	2,256	1/2	3,361	1/2	4,466	1/2	5,571	1/2		1/2		1/2		1/2	
3/4	69	3/4	1,174	3/4	2,279	3/4	3,384	3/4	4,489	3/4	5,594	3/4		3/4		3/4		3/4	
1	92	1	1,197	1	2,302	1	3,407	1	4,512	1		1		1		1		1	
1/4	115	1/4	1,220	1/4	2,325	1/4	3,430	1/4	4,535	1/4		1/4		1/4		1/4		1/4	
1/2	138	1/2	1,243	1/2	2,348	1/2	3,453	1/2	4,558	1/2		1/2		1/2		1/2		1/2	
3/4	161	3/4	1,266	3/4	2,371	3/4	3,476	3/4	4,581	3/4		3/4		3/4		3/4		3/4	
2	184	2	1,289	2	2,394	2	3,499	2	4,604	2		2		2		2		2	
1/4	207	1/4	1,312	1/4	2,417	1/4	3,522	1/4	4,627	1/4		1/4		1/4		1/4		1/4	
1/2	230	1/2	1,335	1/2	2,440	1/2	3,545	1/2	4,650	1/2		1/2		1/2		1/2		1/2	
3/4	253	3/4	1,358	3/4	2,463	3/4	3,568	3/4	4,673	3/4		3/4		3/4		3/4		3/4	
3	276	3	1,381	3	2,486	3	3,591	3	4,696	3		3		3		3		3	
1/4	299	1/4	1,404	1/4	2,509	1/4	3,614	1/4	4,719	1/4		1/4		1/4		1/4		1/4	
1/2	322	1/2	1,427	1/2	2,532	1/2	3,637	1/2	4,742	1/2		1/2		1/2		1/2		1/2	
3/4	345	3/4	1,450	3/4	2,555	3/4	3,660	3/4	4,765	3/4		3/4		3/4		3/4		3/4	
4	368	4	1,473	4	2,578	4	3,683	4	4,788	4		4		4		4		4	
1/4	391	1/4	1,496	1/4	2,601	1/4	3,706	1/4	4,811	1/4		1/4		1/4		1/4		1/4	
1/2	414	1/2	1,519	1/2	2,624	1/2	3,729	1/2	4,834	1/2		1/2		1/2		1/2		1/2	
3/4	437	3/4	1,542	3/4	2,647	3/4	3,752	3/4	4,857	3/4		3/4		3/4		3/4		3/4	
5	460	5	1,565	5	2,670	5	3,775	5	4,880	5		5		5		5		5	
1/4	483	1/4	1,588	1/4	2,693	1/4	3,798	1/4	4,903	1/4		1/4		1/4		1/4		1/4	
1/2	506	1/2	1,611	1/2	2,716	1/2	3,821	1/2	4,926	1/2		1/2		1/2		1/2		1/2	
3/4	529	3/4	1,634	3/4	2,739	3/4	3,844	3/4	4,949	3/4		3/4		3/4		3/4		3/4	
6	552	6	1,657	6	2,762	6	3,867	6	4,972	6		6		6		6		6	
1/4	576	1/4	1,680	1/4	2,785	1/4	3,890	1/4	4,995	1/4		1/4		1/4		1/4		1/4	
1/2	599	1/2	1,704	1/2	2,808	1/2	3,913	1/2	5,018	1/2		1/2		1/2		1/2		1/2	
3/4	622	3/4	1,727	3/4	2,831	3/4	3,936	3/4	5,041	3/4		3/4		3/4		3/4		3/4	
7	645	7	1,750	7	2,855	7	3,959	7	5,064	7		7		7		7		7	
1/4	668	1/4	1,773	1/4	2,878	1/4	3,983	1/4	5,087	1/4		1/4		1/4		1/4		1/4	
1/2	691	1/2	1,796	1/2	2,901	1/2	4,006	1/2	5,111	1/2		1/2		1/2		1/2		1/2	
3/4	714	3/4	1,819	3/4	2,924	3/4	4,029	3/4	5,134	3/4		3/4		3/4		3/4		3/4	
8	737	8	1,842	8	2,947	8	4,052	8	5,157	8		8		8		8		8	
1/4	760	1/4	1,865	1/4	2,970	1/4	4,075	1/4	5,180	1/4		1/4		1/4		1/4		1/4	
1/2	783	1/2	1,888	1/2	2,993	1/2	4,098	1/2	5,203	1/2		1/2		1/2		1/2		1/2	
3/4	806	3/4	1,911	3/4	3,016	3/4	4,121	3/4	5,226	3/4		3/4		3/4		3/4		3/4	
9	829	9	1,934	9	3,039	9	4,144	9	5,249	9		9		9		9		9	
1/4	852	1/4	1,957	1/4	3,062	1/4	4,167	1/4	5,272	1/4		1/4		1/4		1/4		1/4	
1/2	875	1/2	1,980	1/2	3,085	1/2	4,190	1/2	5,295	1/2		1/2		1/2		1/2		1/2	
3/4	898	3/4	2,003	3/4	3,108	3/4	4,213	3/4	5,318	3/4		3/4		3/4		3/4		3/4	
10	921	10	2,026	10	3,131	10	4,236	10	5,341	10		10		10		10		10	
1/4	944	1/4	2,049	1/4	3,154	1/4	4,259	1/4	5,364	1/4		1/4		1/4		1/4		1/4	
1/2	967	1/2	2,072	1/2	3,177	1/2	4,282	1/2	5,387	1/2		1/2		1/2		1/2		1/2	
3/4	990	3/4	2,095	3/4	3,200	3/4	4,305	3/4	5,410	3/4		3/4		3/4		3/4		3/4	
11	1,013	11	2,118	11	3,223	11	4,328	11	5,433	11		11		11		11		11	
1/4	1,036	1/4	2,141	1/4	3,246	1/4	4,351	1/4	5,456	1/4		1/4		1/4		1/4		1/4	
1/2	1,059	1/2	2,164	1/2	3,269	1/2	4,374	1/2	5,479	1/2		1/2		1/2		1/2		1/2	
3/4	1,082	3/4	2,187	3/4	3,292	3/4	4,397	3/4	5,502	3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO 2" DIAMETER "HERMETIC" VALVE.

STRAPPED: 06/30/2021 CL  
 CALCULATED: 07/01/2021 CL  
 PRINTED: 07/01/2021 JS

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 06/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.

P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## STBD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 6'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	1,108	0	2,217	0	3,325	0	4,434	0	5,542	0		0		0		0	
1/4	23	1/4	1,132	1/4	2,240	1/4	3,348	1/4	4,457	1/4	5,565	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	46	1/2	1,155	1/2	2,263	1/2	3,372	1/2	4,480	1/2	5,589	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	69	3/4	1,178	3/4	2,286	3/4	3,395	3/4	4,503	3/4	5,612	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	92	1	1,201	1	2,309	1	3,418	1	4,526	1		1	1	1	1	1	1	1	1
1/4	115	1/4	1,224	1/4	2,332	1/4	3,441	1/4	4,549	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	139	1/2	1,247	1/2	2,355	1/2	3,464	1/2	4,572	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	162	3/4	1,270	3/4	2,379	3/4	3,487	3/4	4,596	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	185	2	1,293	2	2,402	2	3,510	2	4,619	2	2	2	2	2	2	2	2	2	2
1/4	208	1/4	1,316	1/4	2,425	1/4	3,533	1/4	4,642	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	231	1/2	1,339	1/2	2,448	1/2	3,556	1/2	4,665	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	254	3/4	1,362	3/4	2,471	3/4	3,579	3/4	4,688	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	277	3	1,386	3	2,494	3	3,603	3	4,711	3	3	3	3	3	3	3	3	3	3
1/4	300	1/4	1,409	1/4	2,517	1/4	3,626	1/4	4,734	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	323	1/2	1,432	1/2	2,540	1/2	3,649	1/2	4,757	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	346	3/4	1,455	3/4	2,563	3/4	3,672	3/4	4,780	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	369	4	1,478	4	2,586	4	3,695	4	4,803	4	4	4	4	4	4	4	4	4	4
1/4	393	1/4	1,501	1/4	2,610	1/4	3,718	1/4	4,826	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	416	1/2	1,524	1/2	2,633	1/2	3,741	1/2	4,850	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	439	3/4	1,547	3/4	2,656	3/4	3,764	3/4	4,873	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	462	5	1,570	5	2,679	5	3,787	5	4,896	5	5	5	5	5	5	5	5	5	5
1/4	485	1/4	1,593	1/4	2,702	1/4	3,810	1/4	4,919	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	508	1/2	1,617	1/2	2,725	1/2	3,833	1/2	4,942	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	531	3/4	1,640	3/4	2,748	3/4	3,857	3/4	4,965	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	554	6	1,663	6	2,771	6	3,880	6	4,988	6	6	6	6	6	6	6	6	6	6
1/4	577	1/4	1,686	1/4	2,794	1/4	3,903	1/4	5,011	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	600	1/2	1,709	1/2	2,817	1/2	3,926	1/2	5,034	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	624	3/4	1,732	3/4	2,840	3/4	3,949	3/4	5,057	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	647	7	1,755	7	2,864	7	3,972	7	5,080	7	7	7	7	7	7	7	7	7	7
1/4	670	1/4	1,778	1/4	2,887	1/4	3,995	1/4	5,104	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	693	1/2	1,801	1/2	2,910	1/2	4,018	1/2	5,127	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	716	3/4	1,824	3/4	2,933	3/4	4,041	3/4	5,150	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	739	8	1,847	8	2,956	8	4,064	8	5,173	8	8	8	8	8	8	8	8	8	8
1/4	762	1/4	1,871	1/4	2,979	1/4	4,087	1/4	5,196	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	785	1/2	1,894	1/2	3,002	1/2	4,111	1/2	5,219	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	808	3/4	1,917	3/4	3,025	3/4	4,134	3/4	5,242	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	831	9	1,940	9	3,048	9	4,157	9	5,265	9	9	9	9	9	9	9	9	9	9
1/4	854	1/4	1,963	1/4	3,071	1/4	4,180	1/4	5,288	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	878	1/2	1,986	1/2	3,094	1/2	4,203	1/2	5,311	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	901	3/4	2,009	3/4	3,118	3/4	4,226	3/4	5,335	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	924	10	2,032	10	3,141	10	4,249	10	5,358	10	10	10	10	10	10	10	10	10	10
1/4	947	1/4	2,055	1/4	3,164	1/4	4,272	1/4	5,381	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	970	1/2	2,078	1/2	3,187	1/2	4,295	1/2	5,404	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	993	3/4	2,101	3/4	3,210	3/4	4,318	3/4	5,427	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,016	11	2,125	11	3,233	11	4,342	11	5,450	11	11	11	11	11	11	11	11	11	11
1/4	1,039	1/4	2,148	1/4	3,256	1/4	4,365	1/4	5,473	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,062	1/2	2,171	1/2	3,279	1/2	4,388	1/2	5,496	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,085	3/4	2,194	3/4	3,302	3/4	4,411	3/4	5,519	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
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 CALCULATED: 07/01/2021 CL  
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CANCELS AND SUPERCEDES  
 ALL PRIOR TO 06/2021

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# BARGE "MPX 421"

# FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	101	0	259	0	416	0	517	0		0		0		0		0	
1/4	1	1/4	104	1/4	262	1/4	419	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	107	1/2	265	1/2	422	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	110	3/4	269	3/4	425	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	113	1	272	1	428	1	1	1	1	1	1	1	1	1	1	1	1
1/4	4	1/4	116	1/4	276	1/4	430	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	119	1/2	279	1/2	433	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	122	3/4	282	3/4	436	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	125	2	286	2	439	2	2	2	2	2	2	2	2	2	2	2	2
1/4	9	1/4	129	1/4	289	1/4	442	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	132	1/2	293	1/2	444	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	135	3/4	296	3/4	447	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	138	3	300	3	450	3	3	3	3	3	3	3	3	3	3	3	3
1/4	15	1/4	141	1/4	303	1/4	453	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	144	1/2	306	1/2	455	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	148	3/4	310	3/4	458	3/4		3/4		3/4		3/4		3/4		3/4	
4	21	4	151	4	313	4	460	4	4	4	4	4	4	4	4	4	4	4	4
1/4	23	1/4	154	1/4	316	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	25	1/2	157	1/2	320	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	27	3/4	161	3/4	323	3/4	468	3/4		3/4		3/4		3/4		3/4		3/4	
5	29	5	164	5	327	5	470	5	5	5	5	5	5	5	5	5	5	5	5
1/4	31	1/4	167	1/4	330	1/4	473	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	33	1/2	170	1/2	333	1/2	475	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	35	3/4	174	3/4	337	3/4	477	3/4		3/4		3/4		3/4		3/4		3/4	
6	37	6	177	6	340	6	480	6	6	6	6	6	6	6	6	6	6	6	6
1/4	40	1/4	180	1/4	343	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	42	1/2	184	1/2	347	1/2	484	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	44	3/4	187	3/4	350	3/4	486	3/4		3/4		3/4		3/4		3/4		3/4	
7	47	7	190	7	353	7	488	7	7	7	7	7	7	7	7	7	7	7	7
1/4	49	1/4	194	1/4	356	1/4	490	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	52	1/2	197	1/2	360	1/2	492	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	54	3/4	201	3/4	363	3/4	494	3/4		3/4		3/4		3/4		3/4		3/4	
8	57	8	204	8	366	8	496	8	8	8	8	8	8	8	8	8	8	8	8
1/4	59	1/4	207	1/4	369	1/4	498	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	211	1/2	373	1/2	500	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	64	3/4	214	3/4	376	3/4	502	3/4		3/4		3/4		3/4		3/4		3/4	
9	67	9	217	9	379	9	504	9	9	9	9	9	9	9	9	9	9	9	9
1/4	70	1/4	221	1/4	382	1/4	505	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	73	1/2	224	1/2	385	1/2	507	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	75	3/4	228	3/4	388	3/4	508	3/4		3/4		3/4		3/4		3/4		3/4	
10	78	10	231	10	392	10	510	10	10	10	10	10	10	10	10	10	10	10	10
1/4	81	1/4	235	1/4	395	1/4	511	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	84	1/2	238	1/2	398	1/2	512	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	87	3/4	241	3/4	401	3/4	513	3/4		3/4		3/4		3/4		3/4		3/4	
11	89	11	245	11	404	11	514	11	11	11	11	11	11	11	11	11	11	11	11
1/4	92	1/4	248	1/4	407	1/4	515	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	95	1/2	252	1/2	410	1/2	516	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	98	3/4	255	3/4	413	3/4	516	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" STANDPIPE

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "MPX 421"

## ULLAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

June 30, 2021

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

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# BARGE "MPX 421"

## 1 PORT ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,883.22	0	4,541.84	0	4,199.84	0	3,856.54	0	3,513.27	0	3,170.05	0	2,826.80	0	2,483.49
1/4		1/4		1/4	4,876.15	1/4	4,534.72	1/4	4,192.69	1/4	3,849.39	1/4	3,506.11	1/4	3,162.90	1/4	2,819.64	1/4	2,476.33
1/2		1/2		1/2	4,869.07	1/2	4,527.60	1/2	4,185.53	1/2	3,842.23	1/2	3,498.96	1/2	3,155.75	1/2	2,812.49	1/2	2,469.18
3/4		3/4		3/4	4,862.00	3/4	4,520.48	3/4	4,178.38	3/4	3,835.08	3/4	3,491.81	3/4	3,148.60	3/4	2,805.34	3/4	2,462.03
1		1		1	4,854.92	1	4,513.36	1	4,171.23	1	3,827.93	1	3,484.66	1	3,141.45	1	2,798.19	1	2,454.87
1/4		1/4		1/4	4,847.85	1/4	4,506.24	1/4	4,164.08	1/4	3,820.78	1/4	3,477.51	1/4	3,134.30	1/4	2,791.04	1/4	2,447.72
1/2		1/2		1/2	4,840.77	1/2	4,499.12	1/2	4,156.93	1/2	3,813.62	1/2	3,470.36	1/2	3,127.15	1/2	2,783.88	1/2	2,440.57
3/4		3/4		3/4	4,833.70	3/4	4,492.00	3/4	4,149.77	3/4	3,806.47	3/4	3,463.21	3/4	3,120.00	3/4	2,776.73	3/4	2,433.42
2		2		2	4,826.62	2	4,484.88	2	4,142.62	2	3,799.32	2	3,456.06	2	3,112.85	2	2,769.58	2	2,426.26
1/4		1/4		1/4	4,819.50	1/4	4,477.76	1/4	4,135.47	1/4	3,792.17	1/4	3,448.91	1/4	3,105.70	1/4	2,762.43	1/4	2,419.11
1/2		1/2		1/2	4,812.38	1/2	4,470.64	1/2	4,128.32	1/2	3,785.02	1/2	3,441.76	1/2	3,098.55	1/2	2,755.28	1/2	2,411.96
3/4		3/4		3/4	4,805.26	3/4	4,463.52	3/4	4,121.16	3/4	3,777.86	3/4	3,434.61	3/4	3,091.40	3/4	2,748.12	3/4	2,404.81
3		3		3	4,798.14	3	4,456.40	3	4,114.01	3	3,770.71	3	3,427.46	3	3,084.25	3	2,740.97	3	2,397.65
1/4		1/4		1/4	4,791.02	1/4	4,449.28	1/4	4,106.86	1/4	3,763.56	1/4	3,420.31	1/4	3,077.10	1/4	2,733.82	1/4	2,390.50
1/2		1/2		1/2	4,783.91	1/2	4,442.16	1/2	4,099.71	1/2	3,756.41	1/2	3,413.16	1/2	3,069.95	1/2	2,726.67	1/2	2,383.35
3/4		3/4		3/4	4,776.79	3/4	4,435.04	3/4	4,092.56	3/4	3,749.26	3/4	3,406.01	3/4	3,062.80	3/4	2,719.52	3/4	2,376.20
4		4		4	4,769.67	4	4,427.93	4	4,085.40	4	3,742.10	4	3,398.86	4	3,055.65	4	2,712.36	4	2,369.04
1/4		1/4		1/4	4,762.55	1/4	4,420.81	1/4	4,078.25	1/4	3,734.95	1/4	3,391.71	1/4	3,048.50	1/4	2,705.21	1/4	2,361.89
1/2		1/2		1/2	4,755.43	1/2	4,413.69	1/2	4,071.10	1/2	3,727.80	1/2	3,384.56	1/2	3,041.35	1/2	2,698.06	1/2	2,354.74
3/4		3/4		3/4	4,748.31	3/4	4,406.57	3/4	4,063.95	3/4	3,720.65	3/4	3,377.41	3/4	3,034.20	3/4	2,690.91	3/4	2,347.58
5		5		5	4,741.19	5	4,399.45	5	4,056.80	5	3,713.50	5	3,370.26	5	3,027.04	5	2,683.76	5	2,340.43
1/4		1/4		1/4	4,734.07	1/4	4,392.33	1/4	4,049.64	1/4	3,706.34	1/4	3,363.11	1/4	3,019.89	1/4	2,676.60	1/4	2,333.28
1/2		1/2		1/2	4,726.95	1/2	4,385.21	1/2	4,042.49	1/2	3,699.19	1/2	3,355.96	1/2	3,012.74	1/2	2,669.45	1/2	2,326.13
3/4		3/4		3/4	4,719.83	3/4	4,378.09	3/4	4,035.34	3/4	3,692.04	3/4	3,348.81	3/4	3,005.59	3/4	2,662.30	3/4	2,318.97
6		6	5,027.64	6	4,712.71	6	4,370.97	6	4,028.19	6	3,684.89	6	3,341.66	6	2,998.44	6	2,655.15	6	2,311.82
1/4		1/4	5,023.84	1/4	4,705.59	1/4	4,363.85	1/4	4,021.04	1/4	3,677.73	1/4	3,334.51	1/4	2,991.29	1/4	2,648.00	1/4	2,304.67
1/2		1/2	5,020.05	1/2	4,698.47	1/2	4,356.73	1/2	4,013.88	1/2	3,670.58	1/2	3,327.36	1/2	2,984.14	1/2	2,640.84	1/2	2,297.52
3/4		3/4	5,016.25	3/4	4,691.35	3/4	4,349.61	3/4	4,006.73	3/4	3,663.43	3/4	3,320.21	3/4	2,976.99	3/4	2,633.69	3/4	2,290.36
7		7	5,012.45	7	4,684.23	7	4,342.49	7	3,999.58	7	3,656.28	7	3,313.06	7	2,969.84	7	2,626.54	7	2,283.21
1/4		1/4	5,007.47	1/4	4,677.11	1/4	4,335.37	1/4	3,992.43	1/4	3,649.13	1/4	3,305.91	1/4	2,962.68	1/4	2,619.39	1/4	2,276.06
1/2		1/2	5,002.48	1/2	4,669.99	1/2	4,328.25	1/2	3,985.28	1/2	3,641.97	1/2	3,298.76	1/2	2,955.53	1/2	2,612.23	1/2	2,268.90
3/4		3/4	4,997.49	3/4	4,662.87	3/4	4,321.13	3/4	3,978.12	3/4	3,634.82	3/4	3,291.61	3/4	2,948.38	3/4	2,605.08	3/4	2,261.75
8		8	4,992.50	8	4,655.75	8	4,314.01	8	3,970.97	8	3,627.67	8	3,284.46	8	2,941.23	8	2,597.93	8	2,254.60
1/4		1/4	4,986.32	1/4	4,648.63	1/4	4,306.89	1/4	3,963.82	1/4	3,620.52	1/4	3,277.31	1/4	2,934.08	1/4	2,590.78	1/4	2,247.45
1/2		1/2	4,980.14	1/2	4,641.51	1/2	4,299.77	1/2	3,956.67	1/2	3,613.37	1/2	3,270.16	1/2	2,926.92	1/2	2,583.62	1/2	2,240.29
3/4		3/4	4,973.96	3/4	4,634.39	3/4	4,292.65	3/4	3,949.51	3/4	3,606.22	3/4	3,263.00	3/4	2,919.77	3/4	2,576.47	3/4	2,233.14
9		9	4,967.78	9	4,627.27	9	4,285.53	9	3,942.36	9	3,599.07	9	3,255.85	9	2,912.62	9	2,569.32	9	2,225.99
1/4		1/4	4,960.77	1/4	4,620.15	1/4	4,278.41	1/4	3,935.21	1/4	3,591.92	1/4	3,248.70	1/4	2,905.47	1/4	2,562.17	1/4	2,218.84
1/2		1/2	4,953.77	1/2	4,613.03	1/2	4,271.29	1/2	3,928.06	1/2	3,584.77	1/2	3,241.55	1/2	2,898.32	1/2	2,555.01	1/2	2,211.68
3/4		3/4	4,946.76	3/4	4,605.92	3/4	4,264.17	3/4	3,920.91	3/4	3,577.62	3/4	3,234.40	3/4	2,891.16	3/4	2,547.86	3/4	2,204.53
10		10	4,939.76	10	4,598.80	10	4,257.05	10	3,913.75	10	3,570.47	10	3,227.25	10	2,884.01	10	2,540.71	10	2,197.38
1/4		1/4	4,932.70	1/4	4,591.68	1/4	4,249.90	1/4	3,906.60	1/4	3,563.32	1/4	3,220.10	1/4	2,876.86	1/4	2,533.55	1/4	2,190.22
1/2		1/2	4,925.64	1/2	4,584.56	1/2	4,242.75	1/2	3,899.45	1/2	3,556.17	1/2	3,212.95	1/2	2,869.71	1/2	2,526.40	1/2	2,183.07
3/4		3/4	4,918.58	3/4	4,577.44	3/4	4,235.60	3/4	3,892.30	3/4	3,549.02	3/4	3,205.80	3/4	2,862.56	3/4	2,519.25	3/4	2,175.92
11		11	4,911.52	11	4,570.32	11	4,228.45	11	3,885.15	11	3,541.87	11	3,198.65	11	2,855.40	11	2,512.10	11	2,168.77
1/4		1/4	4,904.44	1/4	4,563.20	1/4	4,221.29	1/4	3,877.99	1/4	3,534.72	1/4	3,191.50	1/4	2,848.25	1/4	2,504.94	1/4	2,161.61
1/2		1/2	4,897.37	1/2	4,556.08	1/2	4,214.14	1/2	3,870.84	1/2	3,527.57	1/2	3,184.35	1/2	2,841.10	1/2	2,497.79	1/2	2,154.46
3/4		3/4	4,890.29	3/4	4,548.96	3/4	4,206.99	3/4	3,863.69	3/4	3,520.42	3/4	3,177.20	3/4	2,833.95	3/4	2,490.64	3/4	2,147.31

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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# BARGE "MPX 421"

**1 PORT**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-05"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,140.16	0	1,796.83	0	1,453.50	0	1,110.17	0	769.33	0	426.86	0	115.64	0		0		0	
1/4	2,133.00	1/4	1,789.67	1/4	1,446.34	1/4	1,103.01	1/4	762.22	1/4	419.92	1/4	109.70	1/4	1/4	1/4		1/4	
1/2	2,125.85	1/2	1,782.52	1/2	1,439.19	1/2	1,095.86	1/2	755.10	1/2	412.98	1/2	103.76	1/2	1/2	1/2		1/2	
3/4	2,118.70	3/4	1,775.37	3/4	1,432.04	3/4	1,088.71	3/4	747.98	3/4	406.03	3/4	97.82	3/4	3/4	3/4		3/4	
1	2,111.55	1	1,768.22	1	1,424.89	1	1,081.56	1	740.86	1	399.09	1	91.88	1	1	1		1	
1/4	2,104.39	1/4	1,761.06	1/4	1,417.73	1/4	1,074.44	1/4	733.71	1/4	392.23	1/4	86.03	1/4	1/4	1/4		1/4	
1/2	2,097.24	1/2	1,753.91	1/2	1,410.58	1/2	1,067.32	1/2	726.56	1/2	385.37	1/2	80.19	1/2	1/2	1/2		1/2	
3/4	2,090.09	3/4	1,746.76	3/4	1,403.43	3/4	1,060.20	3/4	719.40	3/4	378.51	3/4	74.34	3/4	3/4	3/4		3/4	
2	2,082.93	2	1,739.60	2	1,396.28	2	1,053.08	2	712.25	2	371.65	2	68.49	2	2	2		2	
1/4	2,075.78	1/4	1,732.45	1/4	1,389.12	1/4	1,045.98	1/4	705.10	1/4	364.87	1/4	62.76	1/4	1/4	1/4		1/4	
1/2	2,068.63	1/2	1,725.30	1/2	1,381.97	1/2	1,038.88	1/2	697.95	1/2	358.10	1/2	57.02	1/2	1/2	1/2		1/2	
3/4	2,061.48	3/4	1,718.15	3/4	1,374.82	3/4	1,031.78	3/4	690.79	3/4	351.32	3/4	51.28	3/4	3/4	3/4		3/4	
3	2,054.32	3	1,710.99	3	1,367.66	3	1,024.68	3	683.64	3	344.54	3	45.54	3	3	3		3	
1/4	2,047.17	1/4	1,703.84	1/4	1,360.51	1/4	1,017.59	1/4	676.49	1/4	337.85	1/4	40.75	1/4	1/4	1/4		1/4	
1/2	2,040.02	1/2	1,696.69	1/2	1,353.36	1/2	1,010.50	1/2	669.34	1/2	331.16	1/2	35.96	1/2	1/2	1/2		1/2	
3/4	2,032.87	3/4	1,689.54	3/4	1,346.21	3/4	1,003.41	3/4	662.18	3/4	324.47	3/4	31.16	3/4	3/4	3/4		3/4	
4	2,025.71	4	1,682.38	4	1,339.05	4	996.31	4	655.03	4	317.77	4	26.37	4	4	4		4	
1/4	2,018.56	1/4	1,675.23	1/4	1,331.90	1/4	989.22	1/4	647.88	1/4	311.16	1/4	23.44	1/4	1/4	1/4		1/4	
1/2	2,011.41	1/2	1,668.08	1/2	1,324.75	1/2	982.13	1/2	640.73	1/2	304.55	1/2	20.52	1/2	1/2	1/2		1/2	
3/4	2,004.25	3/4	1,660.93	3/4	1,317.60	3/4	975.04	3/4	633.57	3/4	297.94	3/4	17.60	3/4	3/4	3/4		3/4	
5	1,997.10	5	1,653.77	5	1,310.44	5	967.94	5	626.42	5	291.34	5	14.67	5	5	5		5	
1/4	1,989.95	1/4	1,646.62	1/4	1,303.29	1/4	960.85	1/4	619.27	1/4	284.81	1/4		1/4	1/4	1/4		1/4	
1/2	1,982.80	1/2	1,639.47	1/2	1,296.14	1/2	953.76	1/2	612.12	1/2	278.28	1/2		1/2	1/2	1/2		1/2	
3/4	1,975.64	3/4	1,632.31	3/4	1,288.98	3/4	946.67	3/4	604.97	3/4	271.76	3/4		3/4	3/4	3/4		3/4	
6	1,968.49	6	1,625.16	6	1,281.83	6	939.58	6	597.81	6	265.23	6		6	6	6		6	
1/4	1,961.34	1/4	1,618.01	1/4	1,274.68	1/4	932.48	1/4	590.66	1/4	258.79	1/4		1/4	1/4	1/4		1/4	
1/2	1,954.19	1/2	1,610.86	1/2	1,267.53	1/2	925.39	1/2	583.51	1/2	252.35	1/2		1/2	1/2	1/2		1/2	
3/4	1,947.03	3/4	1,603.70	3/4	1,260.37	3/4	918.30	3/4	576.36	3/4	245.91	3/4		3/4	3/4	3/4		3/4	
7	1,939.88	7	1,596.55	7	1,253.22	7	911.21	7	569.20	7	239.46	7		7	7	7		7	
1/4	1,932.73	1/4	1,589.40	1/4	1,246.07	1/4	904.11	1/4	562.05	1/4	233.11	1/4		1/4	1/4	1/4		1/4	
1/2	1,925.58	1/2	1,582.25	1/2	1,238.92	1/2	897.02	1/2	554.90	1/2	226.75	1/2		1/2	1/2	1/2		1/2	
3/4	1,918.42	3/4	1,575.09	3/4	1,231.76	3/4	889.93	3/4	547.75	3/4	220.39	3/4		3/4	3/4	3/4		3/4	
8	1,911.27	8	1,567.94	8	1,224.61	8	882.84	8	540.59	8	214.03	8		8	8	8		8	
1/4	1,904.12	1/4	1,560.79	1/4	1,217.46	1/4	875.75	1/4	533.44	1/4	207.76	1/4		1/4	1/4	1/4		1/4	
1/2	1,896.96	1/2	1,553.63	1/2	1,210.31	1/2	868.65	1/2	526.29	1/2	201.48	1/2		1/2	1/2	1/2		1/2	
3/4	1,889.81	3/4	1,546.48	3/4	1,203.15	3/4	861.56	3/4	519.14	3/4	195.21	3/4		3/4	3/4	3/4		3/4	
9	1,882.66	9	1,539.33	9	1,196.00	9	854.47	9	511.98	9	188.93	9		9	9	9		9	
1/4	1,875.51	1/4	1,532.18	1/4	1,188.85	1/4	847.38	1/4	504.83	1/4	182.74	1/4		1/4	1/4	1/4		1/4	
1/2	1,868.35	1/2	1,525.02	1/2	1,181.69	1/2	840.29	1/2	497.68	1/2	176.55	1/2		1/2	1/2	1/2		1/2	
3/4	1,861.20	3/4	1,517.87	3/4	1,174.54	3/4	833.19	3/4	490.53	3/4	170.36	3/4		3/4	3/4	3/4		3/4	
10	1,854.05	10	1,510.72	10	1,167.39	10	826.10	10	483.37	10	164.17	10		10	10	10		10	
1/4	1,846.90	1/4	1,503.57	1/4	1,160.24	1/4	819.01	1/4	476.27	1/4	158.06	1/4		1/4	1/4	1/4		1/4	
1/2	1,839.74	1/2	1,496.41	1/2	1,153.08	1/2	811.92	1/2	469.16	1/2	151.95	1/2		1/2	1/2	1/2		1/2	
3/4	1,832.59	3/4	1,489.26	3/4	1,145.93	3/4	804.83	3/4	462.06	3/4	145.84	3/4		3/4	3/4	3/4		3/4	
11	1,825.44	11	1,482.11	11	1,138.78	11	797.73	11	454.95	11	139.73	11		11	11	11		11	
1/4	1,818.28	1/4	1,474.95	1/4	1,131.63	1/4	790.63	1/4	447.93	1/4	133.71	1/4		1/4	1/4	1/4		1/4	
1/2	1,811.13	1/2	1,467.80	1/2	1,124.47	1/2	783.53	1/2	440.91	1/2	127.69	1/2		1/2	1/2	1/2		1/2	
3/4	1,803.98	3/4	1,460.65	3/4	1,117.32	3/4	776.43	3/4	433.89	3/4	121.66	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 1 STBD ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,870.68	0	4,529.80	0	4,188.32	0	3,845.56	0	3,502.84	0	3,160.17	0	2,817.46	0	2,474.69
1/4		1/4		1/4	4,863.62	1/4	4,522.69	1/4	4,181.18	1/4	3,838.42	1/4	3,495.70	1/4	3,153.04	1/4	2,810.32	1/4	2,467.55
1/2		1/2		1/2	4,856.55	1/2	4,515.59	1/2	4,174.04	1/2	3,831.28	1/2	3,488.56	1/2	3,145.90	1/2	2,803.18	1/2	2,460.41
3/4		3/4		3/4	4,849.49	3/4	4,508.48	3/4	4,166.90	3/4	3,824.14	3/4	3,481.42	3/4	3,138.76	3/4	2,796.04	3/4	2,453.27
1		1		1	4,842.43	1	4,501.37	1	4,159.76	1	3,817.00	1	3,474.28	1	3,131.62	1	2,788.90	1	2,446.13
1/4		1/4		1/4	4,835.36	1/4	4,494.26	1/4	4,152.62	1/4	3,809.86	1/4	3,467.14	1/4	3,124.48	1/4	2,781.76	1/4	2,438.98
1/2		1/2		1/2	4,828.30	1/2	4,487.15	1/2	4,145.48	1/2	3,802.72	1/2	3,460.00	1/2	3,117.34	1/2	2,774.61	1/2	2,431.84
3/4		3/4		3/4	4,821.24	3/4	4,480.05	3/4	4,138.33	3/4	3,795.58	3/4	3,452.87	3/4	3,110.20	3/4	2,767.47	3/4	2,424.70
2		2		2	4,814.13	2	4,472.94	2	4,131.19	2	3,788.44	2	3,445.73	2	3,103.06	2	2,760.33	2	2,417.56
1/4		1/4		1/4	4,807.02	1/4	4,465.83	1/4	4,124.05	1/4	3,781.29	1/4	3,438.59	1/4	3,095.93	1/4	2,753.19	1/4	2,410.42
1/2		1/2		1/2	4,799.91	1/2	4,458.72	1/2	4,116.91	1/2	3,774.15	1/2	3,431.45	1/2	3,088.79	1/2	2,746.05	1/2	2,403.28
3/4		3/4		3/4	4,792.80	3/4	4,451.61	3/4	4,109.77	3/4	3,767.01	3/4	3,424.31	3/4	3,081.65	3/4	2,738.91	3/4	2,396.14
3		3		3	4,785.69	3	4,444.51	3	4,102.63	3	3,759.87	3	3,417.17	3	3,074.51	3	2,731.77	3	2,389.00
1/4		1/4		1/4	4,778.59	1/4	4,437.40	1/4	4,095.49	1/4	3,752.73	1/4	3,410.03	1/4	3,067.37	1/4	2,724.63	1/4	2,381.85
1/2		1/2		1/2	4,771.48	1/2	4,430.29	1/2	4,088.35	1/2	3,745.59	1/2	3,402.89	1/2	3,060.23	1/2	2,717.49	1/2	2,374.71
3/4		3/4		3/4	4,764.37	3/4	4,423.18	3/4	4,081.21	3/4	3,738.45	3/4	3,395.76	3/4	3,053.09	3/4	2,710.35	3/4	2,367.57
4		4		4	4,757.26	4	4,416.07	4	4,074.07	4	3,731.31	4	3,388.62	4	3,045.95	4	2,703.21	4	2,360.43
1/4		1/4		1/4	4,750.15	1/4	4,408.97	1/4	4,066.93	1/4	3,724.17	1/4	3,381.48	1/4	3,038.82	1/4	2,696.06	1/4	2,353.29
1/2		1/2		1/2	4,743.05	1/2	4,401.86	1/2	4,059.79	1/2	3,717.03	1/2	3,374.34	1/2	3,031.68	1/2	2,688.92	1/2	2,346.15
3/4		3/4		3/4	4,735.94	3/4	4,394.75	3/4	4,052.64	3/4	3,709.89	3/4	3,367.20	3/4	3,024.54	3/4	2,681.78	3/4	2,339.01
5		5		5	4,728.83	5	4,387.64	5	4,045.50	5	3,702.75	5	3,360.06	5	3,017.40	5	2,674.64	5	2,331.87
1/4		1/4		1/4	4,721.72	1/4	4,380.53	1/4	4,038.36	1/4	3,695.60	1/4	3,352.92	1/4	3,010.26	1/4	2,667.50	1/4	2,324.73
1/2		1/2		1/2	4,714.61	1/2	4,373.42	1/2	4,031.22	1/2	3,688.46	1/2	3,345.78	1/2	3,003.12	1/2	2,660.36	1/2	2,317.58
3/4		3/4		3/4	5,021.93	3/4	4,707.51	3/4	4,366.32	3/4	4,024.08	3/4	3,681.32	3/4	3,338.64	3/4	2,995.98	3/4	2,653.22
6		6		6	5,018.14	6	4,700.40	6	4,359.21	6	4,016.94	6	3,674.18	6	3,331.51	6	2,988.84	6	2,646.08
1/4		1/4		1/4	5,014.35	1/4	4,693.29	1/4	4,352.10	1/4	4,009.80	1/4	3,667.04	1/4	3,324.37	1/4	2,981.70	1/4	2,638.94
1/2		1/2		1/2	5,010.56	1/2	4,686.18	1/2	4,344.99	1/2	4,002.66	1/2	3,659.90	1/2	3,317.23	1/2	2,974.56	1/2	2,631.80
3/4		3/4		3/4	5,006.77	3/4	4,679.07	3/4	4,337.88	3/4	3,995.52	3/4	3,652.76	3/4	3,310.09	3/4	2,967.42	3/4	2,624.66
7		7		7	5,001.79	7	4,671.97	7	4,330.78	7	3,988.38	7	3,645.62	7	3,302.95	7	2,960.28	7	2,617.51
1/4		1/4		1/4	4,996.81	1/4	4,664.86	1/4	4,323.67	1/4	3,981.24	1/4	3,638.48	1/4	3,295.81	1/4	2,953.14	1/4	2,610.37
1/2		1/2		1/2	4,991.83	1/2	4,657.75	1/2	4,316.56	1/2	3,974.10	1/2	3,631.34	1/2	3,288.67	1/2	2,946.00	1/2	2,603.23
3/4		3/4		3/4	4,986.85	3/4	4,650.64	3/4	4,309.45	3/4	3,966.96	3/4	3,624.20	3/4	3,281.53	3/4	2,938.86	3/4	2,596.09
8		8		8	4,980.68	8	4,643.53	8	4,302.34	8	3,959.81	8	3,617.06	8	3,274.40	8	2,931.71	8	2,588.95
1/4		1/4		1/4	4,974.51	1/4	4,636.42	1/4	4,295.24	1/4	3,952.67	1/4	3,609.92	1/4	3,267.26	1/4	2,924.57	1/4	2,581.81
1/2		1/2		1/2	4,968.34	1/2	4,629.32	1/2	4,288.13	1/2	3,945.53	1/2	3,602.78	1/2	3,260.12	1/2	2,917.43	1/2	2,574.67
3/4		3/4		3/4	4,962.16	3/4	4,622.21	3/4	4,281.02	3/4	3,938.39	3/4	3,595.64	3/4	3,252.98	3/4	2,910.29	3/4	2,567.53
9		9		9	4,955.17	9	4,615.10	9	4,273.91	9	3,931.25	9	3,588.50	9	3,245.84	9	2,903.15	9	2,560.38
1/4		1/4		1/4	4,948.18	1/4	4,607.99	1/4	4,266.80	1/4	3,924.11	1/4	3,581.36	1/4	3,238.70	1/4	2,896.01	1/4	2,553.24
1/2		1/2		1/2	4,941.18	1/2	4,600.88	1/2	4,259.70	1/2	3,916.97	1/2	3,574.23	1/2	3,231.56	1/2	2,888.87	1/2	2,546.10
3/4		3/4		3/4	4,934.19	3/4	4,593.78	3/4	4,252.59	3/4	3,909.83	3/4	3,567.09	3/4	3,224.42	3/4	2,881.73	3/4	2,538.96
10		10		10	4,927.14	10	4,586.67	10	4,245.45	10	3,902.69	10	3,559.95	10	3,217.29	10	2,874.59	10	2,531.82
1/4		1/4		1/4	4,920.09	1/4	4,579.56	1/4	4,238.31	1/4	3,895.55	1/4	3,552.81	1/4	3,210.15	1/4	2,867.45	1/4	2,524.68
1/2		1/2		1/2	4,913.04	1/2	4,572.45	1/2	4,231.16	1/2	3,888.41	1/2	3,545.67	1/2	3,203.01	1/2	2,860.31	1/2	2,517.54
3/4		3/4		3/4	4,905.99	3/4	4,565.34	3/4	4,224.02	3/4	3,881.27	3/4	3,538.53	3/4	3,195.87	3/4	2,853.16	3/4	2,510.40
11		11		11	4,898.93	11	4,558.24	11	4,216.88	11	3,874.12	11	3,531.39	11	3,188.73	11	2,846.02	11	2,503.26
1/4		1/4		1/4	4,891.87	1/4	4,551.13	1/4	4,209.74	1/4	3,866.98	1/4	3,524.25	1/4	3,181.59	1/4	2,838.88	1/4	2,496.11
1/2		1/2		1/2	4,884.81	1/2	4,544.02	1/2	4,202.60	1/2	3,859.84	1/2	3,517.11	1/2	3,174.45	1/2	2,831.74	1/2	2,488.97
3/4		3/4		3/4	4,877.74	3/4	4,536.91	3/4	4,195.46	3/4	3,852.70	3/4	3,509.98	3/4	3,167.31	3/4	2,824.60	3/4	2,481.83

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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 Pearland, Texas 77588  
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# BARGE "MPX 421"

## 1 STBD

### ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,131.91	0	1,789.14	0	1,446.36	0	1,103.58	0	761.09	0	419.20	0	109.50	0		0		0	
1/4	2,124.77	1/4	1,781.99	1/4	1,439.22	1/4	1,096.44	1/4	753.95	1/4	412.27	1/4	103.57	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,117.63	1/2	1,774.85	1/2	1,432.08	1/2	1,089.30	1/2	746.81	1/2	405.34	1/2	97.65	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,110.49	3/4	1,767.71	3/4	1,424.93	3/4	1,082.16	3/4	739.67	3/4	398.41	3/4	91.72	3/4	3/4	3/4	3/4	3/4	3/4
1	2,103.35	1	1,760.57	1	1,417.79	1	1,075.02	1	732.53	1	391.56	1	85.88	1	1	1	1	1	1
1/4	2,096.21	1/4	1,753.43	1/4	1,410.65	1/4	1,067.87	1/4	725.39	1/4	384.71	1/4	80.04	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,089.07	1/2	1,746.29	1/2	1,403.51	1/2	1,060.73	1/2	718.24	1/2	377.86	1/2	74.21	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,081.92	3/4	1,739.15	3/4	1,396.37	3/4	1,053.59	3/4	711.10	3/4	371.01	3/4	68.37	3/4	3/4	3/4	3/4	3/4	3/4
2	2,074.78	2	1,732.01	2	1,389.23	2	1,046.45	2	703.96	2	364.25	2	62.64	2	2	2	2	2	2
1/4	2,067.64	1/4	1,724.86	1/4	1,382.09	1/4	1,039.31	1/4	696.82	1/4	357.48	1/4	56.92	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,060.50	1/2	1,717.72	1/2	1,374.95	1/2	1,032.17	1/2	689.68	1/2	350.71	1/2	51.19	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,053.36	3/4	1,710.58	3/4	1,367.80	3/4	1,025.03	3/4	682.54	3/4	343.95	3/4	45.46	3/4	3/4	3/4	3/4	3/4	3/4
3	2,046.22	3	1,703.44	3	1,360.66	3	1,017.90	3	675.40	3	337.27	3	40.68	3	3	3	3	3	3
1/4	2,039.08	1/4	1,696.30	1/4	1,353.52	1/4	1,010.76	1/4	668.26	1/4	330.59	1/4	35.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,031.94	1/2	1,689.16	1/2	1,346.38	1/2	1,003.63	1/2	661.12	1/2	323.90	1/2	31.11	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,024.79	3/4	1,682.02	3/4	1,339.24	3/4	996.50	3/4	653.98	3/4	317.22	3/4	26.32	3/4	3/4	3/4	3/4	3/4	3/4
4	2,017.65	4	1,674.88	4	1,332.10	4	989.37	4	646.84	4	310.62	4	23.40	4	4	4	4	4	4
1/4	2,010.51	1/4	1,667.73	1/4	1,324.96	1/4	982.23	1/4	639.69	1/4	304.03	1/4	20.48	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,003.37	1/2	1,660.59	1/2	1,317.82	1/2	975.10	1/2	632.55	1/2	297.43	1/2	17.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,996.23	3/4	1,653.45	3/4	1,310.67	3/4	967.97	3/4	625.41	3/4	290.83	3/4	14.65	3/4	3/4	3/4	3/4	3/4	3/4
5	1,989.09	5	1,646.31	5	1,303.53	5	960.84	5	618.27	5	284.32	2		5	5	5	5	5	5
1/4	1,981.95	1/4	1,639.17	1/4	1,296.39	1/4	953.71	1/4	611.13	1/4	277.80	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,974.81	1/2	1,632.03	1/2	1,289.25	1/2	946.57	1/2	603.99	1/2	271.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,967.67	3/4	1,624.89	3/4	1,282.11	3/4	939.44	3/4	596.85	3/4	264.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	1,960.52	6	1,617.75	6	1,274.97	6	932.31	6	589.71	6	258.34	6		6	6	6	6	6	6
1/4	1,953.38	1/4	1,610.61	1/4	1,267.83	1/4	925.18	1/4	582.57	1/4	251.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,946.24	1/2	1,603.46	1/2	1,260.69	1/2	918.04	1/2	575.43	1/2	245.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,939.10	3/4	1,596.32	3/4	1,253.55	3/4	910.91	3/4	568.29	3/4	239.05	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,931.96	7	1,589.18	7	1,246.40	7	903.78	7	561.14	7	232.70	7		7	7	7	7	7	7
1/4	1,924.82	1/4	1,582.04	1/4	1,239.26	1/4	896.65	1/4	554.00	1/4	226.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.68	1/2	1,574.90	1/2	1,232.12	1/2	889.51	1/2	546.86	1/2	220.00	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.54	3/4	1,567.76	3/4	1,224.98	3/4	882.38	3/4	539.72	3/4	213.66	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,903.39	8	1,560.62	8	1,217.84	8	875.25	8	532.58	8	207.39	8		8	8	8	8	8	8
1/4	1,896.25	1/4	1,553.48	1/4	1,210.70	1/4	868.12	1/4	525.44	1/4	201.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.11	1/2	1,546.33	1/2	1,203.56	1/2	860.99	1/2	518.30	1/2	194.86	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,881.97	3/4	1,539.19	3/4	1,196.42	3/4	853.85	3/4	511.16	3/4	188.60	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,874.83	9	1,532.05	9	1,189.27	9	846.72	9	504.02	9	182.42	9		9	9	9	9	9	9
1/4	1,867.69	1/4	1,524.91	1/4	1,182.13	1/4	839.59	1/4	496.88	1/4	176.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,860.55	1/2	1,517.77	1/2	1,174.99	1/2	832.46	1/2	489.74	1/2	170.06	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,853.41	3/4	1,510.63	3/4	1,167.85	3/4	825.32	3/4	482.59	3/4	163.88	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,846.26	10	1,503.49	10	1,160.71	10	818.19	10	475.50	10	157.78	10		10	10	10	10	10	10
1/4	1,839.12	1/4	1,496.35	1/4	1,153.57	1/4	811.06	1/4	468.40	1/4	151.68	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,831.98	1/2	1,489.20	1/2	1,146.43	1/2	803.93	1/2	461.30	1/2	145.58	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,824.84	3/4	1,482.06	3/4	1,139.29	3/4	796.80	3/4	454.20	3/4	139.49	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,817.70	11	1,474.92	11	1,132.14	11	789.65	11	447.18	11	133.47	11		11	11	11	11	11	11
1/4	1,810.56	1/4	1,467.78	1/4	1,125.00	1/4	782.51	1/4	440.17	1/4	127.46	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,803.42	1/2	1,460.64	1/2	1,117.86	1/2	775.37	1/2	433.15	1/2	121.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,796.28	3/4	1,453.50	3/4	1,110.72	3/4	768.23	3/4	426.13	3/4	115.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 2 PORT ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,923.71	0	4,582.41	0	4,240.50	0	3,897.32	0	3,554.14	0	3,210.96	0	2,867.73	0	2,524.45
1/4		1/4		1/4	4,916.64	1/4	4,575.30	1/4	4,233.35	1/4	3,890.17	1/4	3,546.99	1/4	3,203.81	1/4	2,860.58	1/4	2,517.30
1/2		1/2		1/2	4,909.57	1/2	4,568.18	1/2	4,226.21	1/2	3,883.02	1/2	3,539.84	1/2	3,196.66	1/2	2,853.43	1/2	2,510.15
3/4		3/4		3/4	4,902.50	3/4	4,561.06	3/4	4,219.06	3/4	3,875.87	3/4	3,532.69	3/4	3,189.51	3/4	2,846.28	3/4	2,503.00
1		1		1	4,895.43	1	4,553.95	1	4,211.91	1	3,868.73	1	3,525.54	1	3,182.36	1	2,839.12	1	2,495.85
1/4		1/4		1/4	4,888.35	1/4	4,546.83	1/4	4,204.76	1/4	3,861.58	1/4	3,518.39	1/4	3,175.21	1/4	2,831.97	1/4	2,488.70
1/2		1/2		1/2	4,881.28	1/2	4,539.71	1/2	4,197.61	1/2	3,854.43	1/2	3,511.25	1/2	3,168.06	1/2	2,824.82	1/2	2,481.54
3/4		3/4		3/4	4,874.21	3/4	4,532.59	3/4	4,190.46	3/4	3,847.28	3/4	3,504.10	3/4	3,160.91	3/4	2,817.67	3/4	2,474.39
2		2		2	4,867.09	2	4,525.48	2	4,183.31	2	3,840.13	2	3,496.95	2	3,153.77	2	2,810.52	2	2,467.24
1/4		1/4		1/4	4,859.98	1/4	4,518.36	1/4	4,176.16	1/4	3,832.98	1/4	3,489.80	1/4	3,146.62	1/4	2,803.37	1/4	2,460.09
1/2		1/2		1/2	4,852.86	1/2	4,511.24	1/2	4,169.01	1/2	3,825.83	1/2	3,482.65	1/2	3,139.47	1/2	2,796.22	1/2	2,452.94
3/4		3/4		3/4	4,845.74	3/4	4,504.13	3/4	4,161.86	3/4	3,818.68	3/4	3,475.50	3/4	3,132.32	3/4	2,789.06	3/4	2,445.79
3		3		3	4,838.63	3	4,497.01	3	4,154.71	3	3,811.53	3	3,468.35	3	3,125.17	3	2,781.91	3	2,438.64
1/4		1/4		1/4	4,831.51	1/4	4,489.89	1/4	4,147.56	1/4	3,804.38	1/4	3,461.20	1/4	3,118.02	1/4	2,774.76	1/4	2,431.48
1/2		1/2		1/2	4,824.39	1/2	4,482.78	1/2	4,140.41	1/2	3,797.23	1/2	3,454.05	1/2	3,110.87	1/2	2,767.61	1/2	2,424.33
3/4		3/4		3/4	4,817.27	3/4	4,475.66	3/4	4,133.26	3/4	3,790.08	3/4	3,446.90	3/4	3,103.72	3/4	2,760.46	3/4	2,417.18
4		4		4	4,810.16	4	4,468.54	4	4,126.11	4	3,782.93	4	3,439.75	4	3,096.57	4	2,753.31	4	2,410.03
1/4		1/4		1/4	4,803.04	1/4	4,461.42	1/4	4,118.96	1/4	3,775.78	1/4	3,432.60	1/4	3,089.42	1/4	2,746.15	1/4	2,402.88
1/2		1/2		1/2	4,795.92	1/2	4,454.31	1/2	4,111.81	1/2	3,768.63	1/2	3,425.45	1/2	3,082.27	1/2	2,739.00	1/2	2,395.73
3/4		3/4		3/4	4,788.81	3/4	4,447.19	3/4	4,104.66	3/4	3,761.48	3/4	3,418.30	3/4	3,075.12	3/4	2,731.85	3/4	2,388.57
5		5		5	4,781.69	5	4,440.07	5	4,097.51	5	3,754.33	5	3,411.15	5	3,067.97	5	2,724.70	5	2,381.42
1/4		1/4		1/4	4,774.57	1/4	4,432.96	1/4	4,090.36	1/4	3,747.18	1/4	3,404.00	1/4	3,060.82	1/4	2,717.55	1/4	2,374.27
1/2		1/2		1/2	4,767.46	1/2	4,425.84	1/2	4,083.21	1/2	3,740.03	1/2	3,396.85	1/2	3,053.67	1/2	2,710.40	1/2	2,367.12
3/4		3/4		3/4	5,075.14	3/4	4,760.34	3/4	4,418.72	3/4	4,076.06	3/4	3,732.88	3/4	3,389.70	3/4	3,046.52	3/4	2,703.24
6		6		6	5,071.35	6	4,753.22	6	4,411.61	6	4,068.91	6	3,725.73	6	3,382.55	6	3,039.37	6	2,696.09
1/4		1/4		1/4	5,067.55	1/4	4,746.10	1/4	4,404.49	1/4	4,061.76	1/4	3,718.58	1/4	3,375.40	1/4	3,032.22	1/4	2,688.94
1/2		1/2		1/2	5,063.76	1/2	4,738.99	1/2	4,397.37	1/2	4,054.61	1/2	3,711.43	1/2	3,368.25	1/2	3,025.07	1/2	2,681.79
3/4		3/4		3/4	5,059.96	3/4	4,731.87	3/4	4,390.25	3/4	4,047.47	3/4	3,704.28	3/4	3,361.10	3/4	3,017.91	3/4	2,674.64
7		7		7	5,054.98	7	4,724.75	7	4,383.14	7	4,040.32	7	3,697.13	7	3,353.95	7	3,010.76	7	2,667.49
1/4		1/4		1/4	5,049.99	1/4	4,717.64	1/4	4,376.02	1/4	4,033.17	1/4	3,689.99	1/4	3,346.80	1/4	3,003.61	1/4	2,660.33
1/2		1/2		1/2	5,045.00	1/2	4,710.52	1/2	4,368.90	1/2	4,026.02	1/2	3,682.84	1/2	3,339.65	1/2	2,996.46	1/2	2,653.18
3/4		3/4		3/4	5,040.02	3/4	4,703.40	3/4	4,361.79	3/4	4,018.87	3/4	3,675.69	3/4	3,332.51	3/4	2,989.31	3/4	2,646.03
8		8		8	5,033.84	8	4,696.29	8	4,354.67	8	4,011.72	8	3,668.54	8	3,325.36	8	2,982.16	8	2,638.88
1/4		1/4		1/4	5,027.66	1/4	4,689.17	1/4	4,347.55	1/4	4,004.57	1/4	3,661.39	1/4	3,318.21	1/4	2,975.01	1/4	2,631.73
1/2		1/2		1/2	5,021.48	1/2	4,682.05	1/2	4,340.44	1/2	3,997.42	1/2	3,654.24	1/2	3,311.06	1/2	2,967.85	1/2	2,624.58
3/4		3/4		3/4	5,015.31	3/4	4,674.93	3/4	4,333.32	3/4	3,990.27	3/4	3,647.09	3/4	3,303.91	3/4	2,960.70	3/4	2,617.43
9		9		9	5,008.30	9	4,667.82	9	4,326.20	9	3,983.12	9	3,639.94	9	3,296.76	9	2,953.55	9	2,610.27
1/4		1/4		1/4	5,001.30	1/4	4,660.70	1/4	4,319.08	1/4	3,975.97	1/4	3,632.79	1/4	3,289.61	1/4	2,946.40	1/4	2,603.12
1/2		1/2		1/2	4,994.30	1/2	4,653.58	1/2	4,311.97	1/2	3,968.82	1/2	3,625.64	1/2	3,282.46	1/2	2,939.25	1/2	2,595.97
3/4		3/4		3/4	4,987.29	3/4	4,646.47	3/4	4,304.85	3/4	3,961.67	3/4	3,618.49	3/4	3,275.31	3/4	2,932.10	3/4	2,588.82
10		10		10	4,980.23	10	4,639.35	10	4,297.70	10	3,954.52	10	3,611.34	10	3,268.16	10	2,924.94	10	2,581.67
1/4		1/4		1/4	4,973.18	1/4	4,632.23	1/4	4,290.55	1/4	3,947.37	1/4	3,604.19	1/4	3,261.01	1/4	2,917.79	1/4	2,574.52
1/2		1/2		1/2	4,966.12	1/2	4,625.12	1/2	4,283.40	1/2	3,940.22	1/2	3,597.04	1/2	3,253.86	1/2	2,910.64	1/2	2,567.36
3/4		3/4		3/4	4,959.06	3/4	4,618.00	3/4	4,276.25	3/4	3,933.07	3/4	3,589.89	3/4	3,246.71	3/4	2,903.49	3/4	2,560.21
11		11		11	4,951.99	11	4,610.88	11	4,269.10	11	3,925.92	11	3,582.74	11	3,239.56	11	2,896.34	11	2,553.06
1/4		1/4		1/4	4,944.92	1/4	4,603.76	1/4	4,261.95	1/4	3,918.77	1/4	3,575.59	1/4	3,232.41	1/4	2,889.19	1/4	2,545.91
1/2		1/2		1/2	4,937.86	1/2	4,596.65	1/2	4,254.80	1/2	3,911.62	1/2	3,568.44	1/2	3,225.26	1/2	2,882.03	1/2	2,538.76
3/4		3/4		3/4	4,930.79	3/4	4,589.53	3/4	4,247.65	3/4	3,904.47	3/4	3,561.29	3/4	3,218.11	3/4	2,874.88	3/4	2,531.61

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 2 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,181.18	0	1,837.90	0	1,494.62	0	1,151.35	0	821.72	0	479.31	0	136.04	0		0		0	
1/4	2,174.03	1/4	1,830.75	1/4	1,487.47	1/4	1,144.20	1/4	814.86	1/4	472.15	1/4	128.89	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,166.87	1/2	1,823.60	1/2	1,480.32	1/2	1,137.04	1/2	807.99	1/2	465.00	1/2	121.74	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,159.72	3/4	1,816.45	3/4	1,473.17	3/4	1,129.89	3/4	801.12	3/4	457.85	3/4	114.59	3/4	3/4	3/4	3/4	3/4	3/4
1	2,152.57	1	1,809.29	1	1,466.02	1	1,123.02	1	793.97	1	450.70	1	107.45	1	1	1	1	1	1
1/4	2,145.42	1/4	1,802.14	1/4	1,458.87	1/4	1,116.15	1/4	786.82	1/4	443.55	1/4	100.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,138.27	1/2	1,794.99	1/2	1,451.71	1/2	1,109.28	1/2	779.66	1/2	436.40	1/2	93.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,131.12	3/4	1,787.84	3/4	1,444.56	3/4	1,102.42	3/4	772.51	3/4	429.25	3/4	86.03	3/4	3/4	3/4	3/4	3/4	3/4
2	2,123.96	2	1,780.69	2	1,437.41	2	1,095.56	2	765.36	2	422.09	2	78.91	2	2	2	2	2	2
1/4	2,116.81	1/4	1,773.54	1/4	1,430.26	1/4	1,088.71	1/4	758.21	1/4	414.94	1/4	71.80	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,109.66	1/2	1,766.38	1/2	1,423.11	1/2	1,081.86	1/2	751.06	1/2	407.79	1/2	64.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,102.51	3/4	1,759.23	3/4	1,415.96	3/4	1,075.01	3/4	743.91	3/4	400.64	3/4	57.57	3/4	3/4	3/4	3/4	3/4	3/4
3	2,095.36	3	1,752.08	3	1,408.80	3	1,068.16	3	736.76	3	393.49	3	51.31	3	3	3	3	3	3
1/4	2,088.21	1/4	1,744.93	1/4	1,401.65	1/4	1,061.32	1/4	729.60	1/4	386.34	1/4	45.05	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,081.06	1/2	1,737.78	1/2	1,394.50	1/2	1,054.47	1/2	722.45	1/2	379.19	1/2	38.80	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,073.90	3/4	1,730.63	3/4	1,387.35	3/4	1,047.63	3/4	715.30	3/4	372.03	3/4	32.54	3/4	3/4	3/4	3/4	3/4	3/4
4	2,066.75	4	1,723.48	4	1,380.20	4	1,040.79	4	708.15	4	364.88	4	28.07	4	4	4	4	4	4
1/4	2,059.60	1/4	1,716.32	1/4	1,373.05	1/4	1,033.94	1/4	701.00	1/4	357.73	1/4	23.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,052.45	1/2	1,709.17	1/2	1,365.90	1/2	1,027.10	1/2	693.85	1/2	350.58	1/2	19.13	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,045.30	3/4	1,702.02	3/4	1,358.74	3/4	1,020.25	3/4	686.70	3/4	343.43	3/4	14.67	3/4	3/4	3/4	3/4	3/4	3/4
5	2,038.15	5	1,694.87	5	1,351.59	5	1,013.41	5	679.54	5	336.28	5		5	5	5	5	5	5
1/4	2,030.99	1/4	1,687.72	1/4	1,344.44	1/4	1,006.57	1/4	672.39	1/4	329.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,023.84	1/2	1,680.57	1/2	1,337.29	1/2	999.72	1/2	665.24	1/2	321.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,016.69	3/4	1,673.41	3/4	1,330.14	3/4	992.88	3/4	658.09	3/4	314.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,009.54	6	1,666.26	6	1,322.99	6	986.03	6	650.94	6	307.67	6		6	6	6	6	6	6
1/4	2,002.39	1/4	1,659.11	1/4	1,315.83	1/4	979.19	1/4	643.79	1/4	300.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,995.24	1/2	1,651.96	1/2	1,308.68	1/2	972.35	1/2	636.64	1/2	293.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,988.08	3/4	1,644.81	3/4	1,301.53	3/4	965.50	3/4	629.48	3/4	286.22	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,980.93	7	1,637.66	7	1,294.38	7	958.66	7	622.33	7	279.07	7		7	7	7	7	7	7
1/4	1,973.78	1/4	1,630.50	1/4	1,287.23	1/4	951.81	1/4	615.18	1/4	271.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,966.63	1/2	1,623.35	1/2	1,280.08	1/2	944.97	1/2	608.03	1/2	264.76	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,959.48	3/4	1,616.20	3/4	1,272.92	3/4	938.13	3/4	600.88	3/4	257.61	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,952.33	8	1,609.05	8	1,265.77	8	931.28	8	593.73	8	250.46	8		8	8	8	8	8	8
1/4	1,945.17	1/4	1,601.90	1/4	1,258.62	1/4	924.44	1/4	586.58	1/4	243.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,938.02	1/2	1,594.75	1/2	1,251.47	1/2	917.59	1/2	579.42	1/2	236.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,930.87	3/4	1,587.59	3/4	1,244.32	3/4	910.75	3/4	572.27	3/4	229.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,923.72	9	1,580.44	9	1,237.17	9	903.91	9	565.12	9	221.85	9		9	9	9	9	9	9
1/4	1,916.57	1/4	1,573.29	1/4	1,230.01	1/4	897.06	1/4	557.97	1/4	214.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,909.42	1/2	1,566.14	1/2	1,222.86	1/2	890.22	1/2	550.82	1/2	207.55	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,902.27	3/4	1,558.99	3/4	1,215.71	3/4	883.38	3/4	543.67	3/4	200.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,895.11	10	1,551.84	10	1,208.56	10	876.53	10	536.52	10	193.25	10		10	10	10	10	10	10
1/4	1,887.96	1/4	1,544.69	1/4	1,201.41	1/4	869.69	1/4	529.37	1/4	186.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,880.81	1/2	1,537.53	1/2	1,194.26	1/2	862.84	1/2	522.21	1/2	178.95	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,873.66	3/4	1,530.38	3/4	1,187.11	3/4	856.00	3/4	515.06	3/4	171.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,866.51	11	1,523.23	11	1,179.95	11	849.15	11	507.91	11	164.64	11		11	11	11	11	11	11
1/4	1,859.36	1/4	1,516.08	1/4	1,172.80	1/4	842.30	1/4	500.76	1/4	157.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,852.20	1/2	1,508.93	1/2	1,165.65	1/2	835.44	1/2	493.61	1/2	150.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,845.05	3/4	1,501.78	3/4	1,158.50	3/4	828.59	3/4	486.46	3/4	143.19	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 2 STBD ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,934.99	0	4,593.27	0	4,250.96	0	3,907.41	0	3,563.89	0	3,220.43	0	2,876.92	0	2,533.36
1/4		1/4		1/4	4,927.91	1/4	4,586.15	1/4	4,243.80	1/4	3,900.25	1/4	3,556.73	1/4	3,213.27	1/4	2,869.76	1/4	2,526.20
1/2		1/2		1/2	4,920.83	1/2	4,579.02	1/2	4,236.65	1/2	3,893.09	1/2	3,549.58	1/2	3,206.12	1/2	2,862.60	1/2	2,519.05
3/4		3/4		3/4	4,913.75	3/4	4,571.90	3/4	4,229.49	3/4	3,885.93	3/4	3,542.42	3/4	3,198.96	3/4	2,855.44	3/4	2,511.89
1		1		1	4,906.67	1	4,564.77	1	4,222.33	1	3,878.78	1	3,535.27	1	3,191.81	1	2,848.29	1	2,504.73
1/4		1/4		1/4	4,899.59	1/4	4,557.65	1/4	4,215.17	1/4	3,871.62	1/4	3,528.11	1/4	3,184.65	1/4	2,841.13	1/4	2,497.57
1/2		1/2		1/2	4,892.51	1/2	4,550.53	1/2	4,208.02	1/2	3,864.46	1/2	3,520.95	1/2	3,177.50	1/2	2,833.97	1/2	2,490.42
3/4		3/4		3/4	4,885.39	3/4	4,543.40	3/4	4,200.86	3/4	3,857.30	3/4	3,513.80	3/4	3,170.34	3/4	2,826.81	3/4	2,483.26
2		2		2	4,878.26	2	4,536.28	2	4,193.70	2	3,850.15	2	3,506.64	2	3,163.18	2	2,819.66	2	2,476.10
1/4		1/4		1/4	4,871.14	1/4	4,529.15	1/4	4,186.54	1/4	3,842.99	1/4	3,499.49	1/4	3,156.03	1/4	2,812.50	1/4	2,468.94
1/2		1/2		1/2	4,864.01	1/2	4,522.03	1/2	4,179.39	1/2	3,835.83	1/2	3,492.33	1/2	3,148.87	1/2	2,805.34	1/2	2,461.79
3/4		3/4		3/4	4,856.89	3/4	4,514.90	3/4	4,172.23	3/4	3,828.67	3/4	3,485.18	3/4	3,141.72	3/4	2,798.18	3/4	2,454.63
3		3		3	4,849.76	3	4,507.78	3	4,165.07	3	3,821.52	3	3,478.02	3	3,134.56	3	2,791.03	3	2,447.47
1/4		1/4		1/4	4,842.64	1/4	4,500.65	1/4	4,157.91	1/4	3,814.36	1/4	3,470.87	1/4	3,127.41	1/4	2,783.87	1/4	2,440.31
1/2		1/2		1/2	4,835.51	1/2	4,493.53	1/2	4,150.76	1/2	3,807.20	1/2	3,463.71	1/2	3,120.25	1/2	2,776.71	1/2	2,433.16
3/4		3/4		3/4	4,828.39	3/4	4,486.40	3/4	4,143.60	3/4	3,800.04	3/4	3,456.56	3/4	3,113.10	3/4	2,769.56	3/4	2,426.00
4		4		4	4,821.26	4	4,479.28	4	4,136.44	4	3,792.89	4	3,449.40	4	3,105.94	4	2,762.40	4	2,418.84
1/4		1/4		1/4	4,814.14	1/4	4,472.15	1/4	4,129.29	1/4	3,785.73	1/4	3,442.24	1/4	3,098.79	1/4	2,755.24	1/4	2,411.69
1/2		1/2		1/2	4,807.01	1/2	4,465.03	1/2	4,122.13	1/2	3,778.57	1/2	3,435.09	1/2	3,091.63	1/2	2,748.08	1/2	2,404.53
3/4		3/4		3/4	4,799.89	3/4	4,457.90	3/4	4,114.97	3/4	3,771.42	3/4	3,427.93	3/4	3,084.47	3/4	2,740.93	3/4	2,397.37
5		5		5	4,792.77	5	4,450.78	5	4,107.81	5	3,764.26	5	3,420.78	5	3,077.32	5	2,733.77	5	2,390.21
1/4		1/4		1/4	4,785.64	1/4	4,443.66	1/4	4,100.66	1/4	3,757.10	1/4	3,413.62	1/4	3,070.16	1/4	2,726.61	1/4	2,383.06
1/2		1/2		1/2	5,093.67	1/2	4,778.52	1/2	4,436.53	1/2	4,093.50	1/2	3,749.94	1/2	3,406.47	1/2	3,063.01	1/2	2,719.45
3/4		3/4		3/4	5,089.87	3/4	4,771.39	3/4	4,429.41	3/4	4,086.34	3/4	3,742.79	3/4	3,399.31	3/4	3,055.85	3/4	2,712.30
6		6		6	5,086.07	6	4,764.27	6	4,422.28	6	4,079.18	6	3,735.63	6	3,392.16	6	3,048.69	6	2,705.14
1/4		1/4		1/4	5,082.27	1/4	4,757.14	1/4	4,415.16	1/4	4,072.03	1/4	3,728.47	1/4	3,385.00	1/4	3,041.54	1/4	2,697.98
1/2		1/2		1/2	5,078.47	1/2	4,750.02	1/2	4,408.03	1/2	4,064.87	1/2	3,721.31	1/2	3,377.85	1/2	3,034.38	1/2	2,690.82
3/4		3/4		3/4	5,073.48	3/4	4,742.89	3/4	4,400.91	3/4	4,057.71	3/4	3,714.16	3/4	3,370.69	3/4	3,027.22	3/4	2,683.67
7		7		7	5,068.49	7	4,735.77	7	4,393.78	7	4,050.55	7	3,707.00	7	3,363.54	7	3,020.06	7	2,676.51
1/4		1/4		1/4	5,063.50	1/4	4,728.64	1/4	4,386.66	1/4	4,043.40	1/4	3,699.84	1/4	3,356.38	1/4	3,012.91	1/4	2,669.35
1/2		1/2		1/2	5,058.50	1/2	4,721.52	1/2	4,379.53	1/2	4,036.24	1/2	3,692.68	1/2	3,349.22	1/2	3,005.75	1/2	2,662.19
3/4		3/4		3/4	5,052.32	3/4	4,714.39	3/4	4,372.41	3/4	4,029.08	3/4	3,685.53	3/4	3,342.07	3/4	2,998.59	3/4	2,655.04
8		8		8	5,046.13	8	4,707.27	8	4,365.28	8	4,021.92	8	3,678.37	8	3,334.91	8	2,991.43	8	2,647.88
1/4		1/4		1/4	5,039.95	1/4	4,700.14	1/4	4,358.16	1/4	4,014.77	1/4	3,671.22	1/4	3,327.76	1/4	2,984.28	1/4	2,640.72
1/2		1/2		1/2	5,033.76	1/2	4,693.02	1/2	4,351.03	1/2	4,007.61	1/2	3,664.06	1/2	3,320.60	1/2	2,977.12	1/2	2,633.56
3/4		3/4		3/4	5,026.75	3/4	4,685.89	3/4	4,343.91	3/4	4,000.45	3/4	3,656.91	3/4	3,313.45	3/4	2,969.96	3/4	2,626.41
9		9		9	5,019.74	9	4,678.77	9	4,336.78	9	3,993.29	9	3,649.75	9	3,306.29	9	2,962.81	9	2,619.25
1/4		1/4		1/4	5,012.73	1/4	4,671.65	1/4	4,329.66	1/4	3,986.14	1/4	3,642.60	1/4	3,299.14	1/4	2,955.65	1/4	2,612.09
1/2		1/2		1/2	5,005.72	1/2	4,664.52	1/2	4,322.54	1/2	3,978.98	1/2	3,635.44	1/2	3,291.98	1/2	2,948.49	1/2	2,604.94
3/4		3/4		3/4	4,998.66	3/4	4,657.40	3/4	4,315.38	3/4	3,971.82	3/4	3,628.29	3/4	3,284.83	3/4	2,941.33	3/4	2,597.78
10		10		10	4,991.59	10	4,650.27	10	4,308.22	10	3,964.67	10	3,621.13	10	3,277.67	10	2,934.18	10	2,590.62
1/4		1/4		1/4	4,984.53	1/4	4,643.15	1/4	4,301.06	1/4	3,957.51	1/4	3,613.97	1/4	3,270.52	1/4	2,927.02	1/4	2,583.46
1/2		1/2		1/2	4,977.46	1/2	4,636.02	1/2	4,293.91	1/2	3,950.35	1/2	3,606.82	1/2	3,263.36	1/2	2,919.86	1/2	2,576.31
3/4		3/4		3/4	4,970.38	3/4	4,628.90	3/4	4,286.75	3/4	3,943.19	3/4	3,599.66	3/4	3,256.20	3/4	2,912.70	3/4	2,569.15
11		11		11	4,963.30	11	4,621.77	11	4,279.59	11	3,936.04	11	3,592.51	11	3,249.05	11	2,905.55	11	2,561.99
1/4		1/4		1/4	4,956.23	1/4	4,614.65	1/4	4,272.43	1/4	3,928.88	1/4	3,585.35	1/4	3,241.89	1/4	2,898.39	1/4	2,554.83
1/2		1/2		1/2	4,949.15	1/2	4,607.52	1/2	4,265.28	1/2	3,921.72	1/2	3,578.20	1/2	3,234.74	1/2	2,891.23	1/2	2,547.68
3/4		3/4		3/4	4,942.07	3/4	4,600.40	3/4	4,258.12	3/4	3,914.56	3/4	3,571.04	3/4	3,227.58	3/4	2,884.07	3/4	2,540.52

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

**2 STBD**  
**ULLAGE TABLE**  
**HERMETIC**  
**GAUGE HEIGHT 16'-04 1/2"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,189.81	0	1,846.25	0	1,502.70	0	1,159.14	0	816.08	0	472.54	0	129.00	0		0		0	
1/4	2,182.65	1/4	1,839.09	1/4	1,495.54	1/4	1,151.98	1/4	808.92	1/4	465.38	1/4	121.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,175.49	1/2	1,831.94	1/2	1,488.38	1/2	1,144.83	1/2	801.76	1/2	458.22	1/2	114.69	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,168.33	3/4	1,824.78	3/4	1,481.22	3/4	1,137.67	3/4	794.61	3/4	451.07	3/4	107.54	3/4	3/4	3/4	3/4	3/4	3/4
1	2,161.18	1	1,817.62	1	1,474.07	1	1,130.51	1	787.45	1	443.91	1	100.39	1	1	1	1	1	1
1/4	2,154.02	1/4	1,810.46	1/4	1,466.91	1/4	1,123.35	1/4	780.29	1/4	436.75	1/4	93.25	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,146.86	1/2	1,803.31	1/2	1,459.75	1/2	1,116.20	1/2	773.14	1/2	429.60	1/2	86.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,139.70	3/4	1,796.15	3/4	1,452.59	3/4	1,109.04	3/4	765.98	3/4	422.44	3/4	78.98	3/4	3/4	3/4	3/4	3/4	3/4
2	2,132.55	2	1,788.99	2	1,445.44	2	1,101.89	2	758.82	2	415.28	2	71.86	2	2	2	2	2	2
1/4	2,125.39	1/4	1,781.83	1/4	1,438.28	1/4	1,094.74	1/4	751.66	1/4	408.12	1/4	64.74	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,118.23	1/2	1,774.68	1/2	1,431.12	1/2	1,087.59	1/2	744.51	1/2	400.97	1/2	57.62	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,111.07	3/4	1,767.52	3/4	1,423.96	3/4	1,080.45	3/4	737.35	3/4	393.81	3/4	51.36	3/4	3/4	3/4	3/4	3/4	3/4
3	2,103.92	3	1,760.36	3	1,416.81	3	1,073.30	3	730.19	3	386.65	3	45.10	3	3	3	3	3	3
1/4	2,096.76	1/4	1,753.20	1/4	1,409.65	1/4	1,066.16	1/4	723.04	1/4	379.50	1/4	38.83	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,089.60	1/2	1,746.05	1/2	1,402.49	1/2	1,059.02	1/2	715.88	1/2	372.34	1/2	32.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,082.44	3/4	1,738.89	3/4	1,395.33	3/4	1,051.87	3/4	708.72	3/4	365.18	3/4	28.10	3/4	3/4	3/4	3/4	3/4	3/4
4	2,075.29	4	1,731.73	4	1,388.18	4	1,044.73	4	701.56	4	358.02	4	23.63	4	4	4	4	4	4
1/4	2,068.13	1/4	1,724.57	1/4	1,381.02	1/4	1,037.59	1/4	694.41	1/4	350.87	1/4	19.15	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,060.97	1/2	1,717.42	1/2	1,373.86	1/2	1,030.44	1/2	687.25	1/2	343.71	1/2	14.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,053.82	3/4	1,710.26	3/4	1,366.70	3/4	1,023.30	3/4	680.09	3/4	336.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4
5	2,046.66	5	1,703.10	5	1,359.55	5	1,016.16	5	672.94	5	329.40	5		5	5	5	5	5	5
1/4	2,039.50	1/4	1,695.95	1/4	1,352.39	1/4	1,009.01	1/4	665.78	1/4	322.24	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,032.34	1/2	1,688.79	1/2	1,345.23	1/2	1,001.87	1/2	658.62	1/2	315.08	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,025.19	3/4	1,681.63	3/4	1,338.08	3/4	994.73	3/4	651.47	3/4	307.92	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,018.03	6	1,674.47	6	1,330.92	6	987.58	6	644.31	6	300.77	6		6	6	6	6	6	6
1/4	2,010.87	1/4	1,667.32	1/4	1,323.76	1/4	980.44	1/4	637.15	1/4	293.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,003.71	1/2	1,660.16	1/2	1,316.60	1/2	973.30	1/2	629.99	1/2	286.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,996.56	3/4	1,653.00	3/4	1,309.45	3/4	966.15	3/4	622.84	3/4	279.30	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,989.40	7	1,645.84	7	1,302.29	7	959.01	7	615.68	7	272.14	7		7	7	7	7	7	7
1/4	1,982.24	1/4	1,638.69	1/4	1,295.13	1/4	951.87	1/4	608.52	1/4	264.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,975.08	1/2	1,631.53	1/2	1,287.97	1/2	944.72	1/2	601.37	1/2	257.82	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,967.93	3/4	1,624.37	3/4	1,280.82	3/4	937.58	3/4	594.21	3/4	250.67	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,960.77	8	1,617.21	8	1,273.66	8	930.44	8	587.05	8	243.51	8		8	8	8	8	8	8
1/4	1,953.61	1/4	1,610.06	1/4	1,266.50	1/4	923.29	1/4	579.89	1/4	236.35	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,946.45	1/2	1,602.90	1/2	1,259.34	1/2	916.15	1/2	572.74	1/2	229.20	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,939.30	3/4	1,595.74	3/4	1,252.19	3/4	909.01	3/4	565.58	3/4	222.04	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,932.14	9	1,588.58	9	1,245.03	9	901.86	9	558.42	9	214.88	9		9	9	9	9	9	9
1/4	1,924.98	1/4	1,581.43	1/4	1,237.87	1/4	894.72	1/4	551.27	1/4	207.73	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,917.82	1/2	1,574.27	1/2	1,230.71	1/2	887.58	1/2	544.11	1/2	200.57	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,910.67	3/4	1,567.11	3/4	1,223.56	3/4	880.43	3/4	536.95	3/4	193.41	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,903.51	10	1,559.95	10	1,216.40	10	873.29	10	529.79	10	186.25	10		10	10	10	10	10	10
1/4	1,896.35	1/4	1,552.80	1/4	1,209.24	1/4	866.15	1/4	522.64	1/4	179.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,889.20	1/2	1,545.64	1/2	1,202.08	1/2	859.01	1/2	515.48	1/2	171.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,882.04	3/4	1,538.48	3/4	1,194.93	3/4	851.85	3/4	508.32	3/4	164.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,874.88	11	1,531.33	11	1,187.77	11	844.70	11	501.17	11	157.63	11		11	11	11	11	11	11
1/4	1,867.72	1/4	1,524.17	1/4	1,180.61	1/4	837.55	1/4	494.01	1/4	150.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,860.57	1/2	1,517.01	1/2	1,173.46	1/2	830.39	1/2	486.85	1/2	143.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,853.41	3/4	1,509.85	3/4	1,166.30	3/4	823.24	3/4	479.69	3/4	136.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 3 PORT ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,310.56	0	4,101.87	0	3,892.80	0	3,682.94	0	3,473.32	0	3,212.25	0	2,870.63	0	2,528.87
1/4		1/4		1/4	4,306.24	1/4	4,097.52	1/4	3,888.42	1/4	3,678.57	1/4	3,468.97	1/4	3,205.15	1/4	2,863.51	1/4	2,521.75
1/2		1/2		1/2	4,301.91	1/2	4,093.16	1/2	3,884.05	1/2	3,674.20	1/2	3,464.61	1/2	3,198.05	1/2	2,856.39	1/2	2,514.63
3/4		3/4		3/4	4,297.59	3/4	4,088.81	3/4	3,879.68	3/4	3,669.82	3/4	3,460.25	3/4	3,190.95	3/4	2,849.27	3/4	2,507.51
1		1		1	4,293.26	1	4,084.46	1	3,875.31	1	3,665.45	1	3,455.90	1	3,183.85	1	2,842.15	1	2,500.39
1/4		1/4		1/4	4,288.93	1/4	4,080.11	1/4	3,870.94	1/4	3,661.08	1/4	3,451.54	1/4	3,176.76	1/4	2,835.03	1/4	2,493.27
1/2		1/2		1/2	4,284.61	1/2	4,075.75	1/2	3,866.56	1/2	3,656.71	1/2	3,447.18	1/2	3,169.66	1/2	2,827.91	1/2	2,486.15
3/4		3/4		3/4	4,280.28	3/4	4,071.40	3/4	3,862.19	3/4	3,652.34	3/4	3,442.83	3/4	3,162.56	3/4	2,820.79	3/4	2,479.03
2		2		2	4,275.96	2	4,067.05	2	3,857.82	2	3,647.96	2	3,438.47	2	3,155.46	2	2,813.67	2	2,471.91
1/4		1/4		1/4	4,271.63	1/4	4,062.69	1/4	3,853.45	1/4	3,643.59	1/4	3,434.12	1/4	3,148.36	1/4	2,806.55	1/4	2,464.79
1/2		1/2		1/2	4,267.28	1/2	4,058.34	1/2	3,849.08	1/2	3,639.22	1/2	3,429.76	1/2	3,141.26	1/2	2,799.43	1/2	2,457.67
3/4		3/4		3/4	4,262.93	3/4	4,053.99	3/4	3,844.70	3/4	3,634.85	3/4	3,425.40	3/4	3,134.16	3/4	2,792.31	3/4	2,450.55
3		3		3	4,258.57	3	4,049.63	3	3,840.33	3	3,630.48	3	3,421.05	3	3,127.07	3	2,785.19	3	2,443.43
1/4		1/4		1/4	4,254.22	1/4	4,045.28	1/4	3,835.96	1/4	3,626.10	1/4	3,416.69	1/4	3,119.97	1/4	2,778.07	1/4	2,436.30
1/2		1/2		1/2	4,249.87	1/2	4,040.93	1/2	3,831.59	1/2	3,621.73	1/2	3,412.34	1/2	3,112.85	1/2	2,770.95	1/2	2,429.18
3/4		3/4		3/4	4,245.52	3/4	4,036.58	3/4	3,827.22	3/4	3,617.36	3/4	3,407.98	3/4	3,105.74	3/4	2,763.83	3/4	2,422.06
4		4		4	4,241.16	4	4,032.22	4	3,822.84	4	3,612.99	4	3,403.62	4	3,098.62	4	2,756.71	4	2,414.94
1/4		1/4		1/4	4,236.81	1/4	4,027.87	1/4	3,818.47	1/4	3,608.62	1/4	3,399.27	1/4	3,091.50	1/4	2,749.59	1/4	2,407.82
1/2		1/2		1/2	4,232.46	1/2	4,023.52	1/2	3,814.10	1/2	3,604.24	1/2	3,394.91	1/2	3,084.39	1/2	2,742.47	1/2	2,400.70
3/4		3/4		3/4	4,228.10	3/4	4,019.16	3/4	3,809.73	3/4	3,599.87	3/4	3,390.55	3/4	3,077.27	3/4	2,735.35	3/4	2,393.58
5		5		5	4,223.75	5	4,014.81	5	3,805.36	5	3,595.50	5	3,386.20	5	3,070.16	5	2,728.23	5	2,386.46
1/4		1/4		1/4	4,219.40	1/4	4,010.46	1/4	3,800.98	1/4	3,591.13	1/4	3,381.84	1/4	3,063.04	1/4	2,721.11	1/4	2,379.34
1/2		1/2		1/2	4,215.05	1/2	4,006.11	1/2	3,796.61	1/2	3,586.76	1/2	3,377.50	1/2	3,055.92	1/2	2,713.99	1/2	2,372.22
3/4		3/4		3/4	4,210.69	3/4	4,001.75	3/4	3,792.24	3/4	3,582.38	3/4	3,373.17	3/4	3,048.81	3/4	2,706.87	3/4	2,365.10
6		6		6	4,206.34	6	3,997.40	6	3,787.87	6	3,578.01	6	3,368.83	6	3,041.69	6	2,699.75	6	2,357.98
1/4		1/4	4,387.34	1/4	4,201.99	1/4	3,993.05	1/4	3,783.50	1/4	3,573.64	1/4	3,364.49	1/4	3,034.58	1/4	2,692.63	1/4	2,350.86
1/2		1/2	4,385.63	1/2	4,197.63	1/2	3,988.69	1/2	3,779.12	1/2	3,569.27	1/2	3,360.15	1/2	3,027.44	1/2	2,685.51	1/2	2,343.73
3/4		3/4	4,383.92	3/4	4,193.28	3/4	3,984.34	3/4	3,774.75	3/4	3,564.90	3/4	3,355.81	3/4	3,020.31	3/4	2,678.39	3/4	2,336.61
7		7	4,382.22	7	4,188.93	7	3,979.99	7	3,770.38	7	3,560.52	7	3,351.48	7	3,013.18	7	2,671.27	7	2,329.49
1/4		1/4	4,380.51	1/4	4,184.57	1/4	3,975.64	1/4	3,766.01	1/4	3,556.15	1/4	3,347.14	1/4	3,006.05	1/4	2,664.15	1/4	2,322.37
1/2		1/2	4,378.26	1/2	4,180.22	1/2	3,971.28	1/2	3,761.64	1/2	3,551.78	1/2	3,340.04	1/2	2,998.92	1/2	2,657.03	1/2	2,315.25
3/4		3/4	4,376.02	3/4	4,175.87	3/4	3,966.93	3/4	3,757.26	3/4	3,547.41	3/4	3,332.94	3/4	2,991.78	3/4	2,649.91	3/4	2,308.13
8		8	4,373.77	8	4,171.52	8	3,962.58	8	3,752.89	8	3,543.04	8	3,325.84	8	2,984.65	8	2,642.79	8	2,301.01
1/4		1/4	4,371.53	1/4	4,167.16	1/4	3,958.22	1/4	3,748.52	1/4	3,538.66	1/4	3,318.74	1/4	2,977.52	1/4	2,635.67	1/4	2,293.89
1/2		1/2	4,368.10	1/2	4,162.81	1/2	3,953.87	1/2	3,744.15	1/2	3,534.31	1/2	3,311.64	1/2	2,970.39	1/2	2,628.55	1/2	2,286.77
3/4		3/4	4,364.66	3/4	4,158.46	3/4	3,949.52	3/4	3,739.78	3/4	3,529.95	3/4	3,304.54	3/4	2,963.26	3/4	2,621.43	3/4	2,279.65
9		9	4,361.23	9	4,154.10	9	3,945.17	9	3,735.40	9	3,525.60	9	3,297.44	9	2,956.12	9	2,614.31	9	2,272.53
1/4		1/4	4,357.79	1/4	4,149.75	1/4	3,940.81	1/4	3,731.03	1/4	3,521.24	1/4	3,290.34	1/4	2,948.99	1/4	2,607.19	1/4	2,265.41
1/2		1/2	4,353.54	1/2	4,145.40	1/2	3,936.46	1/2	3,726.66	1/2	3,516.88	1/2	3,283.24	1/2	2,941.86	1/2	2,600.07	1/2	2,258.28
3/4		3/4	4,349.28	3/4	4,141.05	3/4	3,932.11	3/4	3,722.29	3/4	3,512.53	3/4	3,276.14	3/4	2,934.73	3/4	2,592.95	3/4	2,251.16
10		10	4,345.02	10	4,136.69	10	3,927.75	10	3,717.92	10	3,508.17	10	3,269.04	10	2,927.60	10	2,585.83	10	2,244.04
1/4		1/4	4,340.77	1/4	4,132.34	1/4	3,923.40	1/4	3,713.54	1/4	3,503.82	1/4	3,261.94	1/4	2,920.47	1/4	2,578.71	1/4	2,236.92
1/2		1/2	4,336.46	1/2	4,127.99	1/2	3,919.03	1/2	3,709.17	1/2	3,499.46	1/2	3,254.84	1/2	2,913.35	1/2	2,571.59	1/2	2,229.80
3/4		3/4	4,332.15	3/4	4,123.63	3/4	3,914.66	3/4	3,704.80	3/4	3,495.10	3/4	3,247.74	3/4	2,906.23	3/4	2,564.47	3/4	2,222.68
11		11	4,327.84	11	4,119.28	11	3,910.28	11	3,700.43	11	3,490.75	11	3,240.64	11	2,899.11	11	2,557.35	11	2,215.56
1/4		1/4	4,323.52	1/4	4,114.93	1/4	3,905.91	1/4	3,696.06	1/4	3,486.39	1/4	3,233.54	1/4	2,891.99	1/4	2,550.23	1/4	2,208.44
1/2		1/2	4,319.20	1/2	4,110.58	1/2	3,901.54	1/2	3,691.68	1/2	3,482.03	1/2	3,226.45	1/2	2,884.87	1/2	2,543.11	1/2	2,201.32
3/4		3/4	4,314.88	3/4	4,106.22	3/4	3,897.17	3/4	3,687.31	3/4	3,477.68	3/4	3,219.35	3/4	2,877.75	3/4	2,535.99	3/4	2,194.20

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 3 PORT ULLAGE TABLE HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,187.08	0	1,845.28	0	1,503.48	0	1,161.68	0	832.83	0	492.20	0	149.98	0		0		0	
1/4	2,179.96	1/4	1,838.16	1/4	1,496.36	1/4	1,154.56	1/4	826.01	1/4	485.08	1/4	142.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,172.84	1/2	1,831.04	1/2	1,489.24	1/2	1,147.44	1/2	819.12	1/2	477.95	1/2	135.71	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,165.71	3/4	1,823.92	3/4	1,482.12	3/4	1,140.32	3/4	812.23	3/4	470.83	3/4	128.58	3/4	3/4	3/4	3/4	3/4	3/4
1	2,158.59	1	1,816.80	1	1,475.00	1	1,133.20	1	805.34	1	463.71	1	121.44	1	1	1	1	1	1
1/4	2,151.47	1/4	1,809.67	1/4	1,467.88	1/4	1,126.08	1/4	798.45	1/4	456.59	1/4	114.31	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,144.35	1/2	1,802.55	1/2	1,460.76	1/2	1,119.19	1/2	791.33	1/2	449.47	1/2	107.19	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,137.23	3/4	1,795.43	3/4	1,453.63	3/4	1,112.30	3/4	784.20	3/4	442.34	3/4	100.07	3/4	3/4	3/4	3/4	3/4	3/4
2	2,130.11	2	1,788.31	2	1,446.51	2	1,105.41	2	777.08	2	435.22	2	92.94	2	2	2	2	2	2
1/4	2,122.99	1/4	1,781.19	1/4	1,439.39	1/4	1,098.52	1/4	769.96	1/4	428.10	1/4	85.82	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,115.87	1/2	1,774.07	1/2	1,432.27	1/2	1,091.70	1/2	762.84	1/2	420.98	1/2	78.72	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,108.75	3/4	1,766.95	3/4	1,425.15	3/4	1,084.88	3/4	755.72	3/4	413.86	3/4	71.62	3/4	3/4	3/4	3/4	3/4	3/4
3	2,101.63	3	1,759.83	3	1,418.03	3	1,078.06	3	748.59	3	406.73	3	64.53	3	3	3	3	3	3
1/4	2,094.51	1/4	1,752.71	1/4	1,410.91	1/4	1,071.24	1/4	741.47	1/4	399.61	1/4	57.43	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,087.39	1/2	1,745.59	1/2	1,403.79	1/2	1,064.43	1/2	734.35	1/2	392.49	1/2	51.19	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,080.26	3/4	1,738.47	3/4	1,396.67	3/4	1,057.62	3/4	727.23	3/4	385.37	3/4	44.95	3/4	3/4	3/4	3/4	3/4	3/4
4	2,073.14	4	1,731.35	4	1,389.55	4	1,050.81	4	720.11	4	378.24	4	38.71	4	4	4	4	4	4
1/4	2,066.02	1/4	1,724.22	1/4	1,382.43	1/4	1,044.00	1/4	712.98	1/4	371.12	1/4	32.47	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,058.90	1/2	1,717.10	1/2	1,375.31	1/2	1,037.19	1/2	705.86	1/2	363.99	1/2	28.01	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,051.78	3/4	1,709.98	3/4	1,368.18	3/4	1,030.38	3/4	698.74	3/4	356.86	3/4	23.55	3/4	3/4	3/4	3/4	3/4	3/4
5	2,044.66	5	1,702.86	5	1,361.06	5	1,023.56	5	691.62	5	349.72	5	19.09	5	5	5	5	5	5
1/4	2,037.54	1/4	1,695.74	1/4	1,353.94	1/4	1,016.75	1/4	684.50	1/4	342.59	1/4	14.63	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,030.42	1/2	1,688.62	1/2	1,346.82	1/2	1,009.94	1/2	677.37	1/2	335.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,023.30	3/4	1,681.50	3/4	1,339.70	3/4	1,003.13	3/4	670.25	3/4	328.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4
6	2,016.18	6	1,674.38	6	1,332.58	6	996.32	6	663.13	6	321.19	6	6	6	6	6	6	6	6
1/4	2,009.06	1/4	1,667.26	1/4	1,325.46	1/4	989.51	1/4	656.01	1/4	314.05	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,001.94	1/2	1,660.14	1/2	1,318.34	1/2	982.70	1/2	648.88	1/2	306.92	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,994.82	3/4	1,653.02	3/4	1,311.22	3/4	975.89	3/4	641.76	3/4	299.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,987.69	7	1,645.90	7	1,304.10	7	969.07	7	634.64	7	292.65	7	7	7	7	7	7	7	7
1/4	1,980.57	1/4	1,638.78	1/4	1,296.98	1/4	962.26	1/4	627.52	1/4	285.52	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,973.45	1/2	1,631.65	1/2	1,289.86	1/2	955.45	1/2	620.40	1/2	278.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,966.33	3/4	1,624.53	3/4	1,282.74	3/4	948.64	3/4	613.27	3/4	271.25	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,959.21	8	1,617.41	8	1,275.61	8	941.83	8	606.15	8	264.12	8	8	8	8	8	8	8	8
1/4	1,952.09	1/4	1,610.29	1/4	1,268.49	1/4	935.02	1/4	599.03	1/4	256.98	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,944.97	1/2	1,603.17	1/2	1,261.37	1/2	928.21	1/2	591.91	1/2	249.85	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,937.85	3/4	1,596.05	3/4	1,254.25	3/4	921.40	3/4	584.79	3/4	242.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,930.73	9	1,588.93	9	1,247.13	9	914.59	9	577.66	9	235.58	9	9	9	9	9	9	9	9
1/4	1,923.61	1/4	1,581.81	1/4	1,240.01	1/4	907.77	1/4	570.54	1/4	228.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,916.49	1/2	1,574.69	1/2	1,232.89	1/2	900.96	1/2	563.42	1/2	221.31	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,909.37	3/4	1,567.57	3/4	1,225.77	3/4	894.15	3/4	556.30	3/4	214.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,902.24	10	1,560.45	10	1,218.65	10	887.34	10	549.18	10	207.05	10	10	10	10	10	10	10	10
1/4	1,895.12	1/4	1,553.33	1/4	1,211.53	1/4	880.53	1/4	542.05	1/4	199.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,888.00	1/2	1,546.20	1/2	1,204.41	1/2	873.72	1/2	534.93	1/2	192.78	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,880.88	3/4	1,539.08	3/4	1,197.29	3/4	866.91	3/4	527.81	3/4	185.64	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,873.76	11	1,531.96	11	1,190.16	11	860.10	11	520.69	11	178.51	11	11	11	11	11	11	11	11
1/4	1,866.64	1/4	1,524.84	1/4	1,183.04	1/4	853.29	1/4	513.56	1/4	171.38	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,859.52	1/2	1,517.72	1/2	1,175.92	1/2	846.47	1/2	506.44	1/2	164.24	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,852.40	3/4	1,510.60	3/4	1,168.80	3/4	839.65	3/4	499.32	3/4	157.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 3 STBD ULLAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0	4,327.01	0	4,118.28	0	3,909.15	0	3,699.24	0	3,489.34	0	3,228.00	0	2,886.83	0	2,545.23		
1/4		1/4		1/4	4,322.69	1/4	4,113.92	1/4	3,904.78	1/4	3,694.87	1/4	3,484.96	1/4	3,220.90	1/4	2,879.72	1/4	2,538.10		
1/2		1/2		1/2	4,318.36	1/2	4,109.57	1/2	3,900.41	1/2	3,690.50	1/2	3,480.59	1/2	3,213.81	1/2	2,872.61	1/2	2,530.97		
3/4		3/4		3/4	4,314.04	3/4	4,105.21	3/4	3,896.03	3/4	3,686.13	3/4	3,476.22	3/4	3,206.71	3/4	2,865.50	3/4	2,523.84		
1		1		1	4,309.71	1	4,100.86	1	3,891.66	1	3,681.75	1	3,471.84	1	3,199.62	1	2,858.38	1	2,516.71		
1/4		1/4		1/4	4,305.38	1/4	4,096.51	1/4	3,887.29	1/4	3,677.38	1/4	3,467.47	1/4	3,192.52	1/4	2,851.27	1/4	2,509.58		
1/2		1/2		1/2	4,301.06	1/2	4,092.15	1/2	3,882.91	1/2	3,673.01	1/2	3,463.10	1/2	3,185.43	1/2	2,844.16	1/2	2,502.45		
3/4		3/4		3/4	4,296.73	3/4	4,087.80	3/4	3,878.54	3/4	3,668.63	3/4	3,458.72	3/4	3,178.33	3/4	2,837.05	3/4	2,495.32		
2		2		2	4,292.40	2	4,083.44	2	3,874.17	2	3,664.26	2	3,454.35	2	3,171.24	2	2,829.94	2	2,488.18		
1/4		1/4		1/4	4,288.08	1/4	4,079.09	1/4	3,869.80	1/4	3,659.89	1/4	3,449.98	1/4	3,164.14	1/4	2,822.82	1/4	2,481.05		
1/2		1/2		1/2	4,283.72	1/2	4,074.74	1/2	3,865.42	1/2	3,655.51	1/2	3,445.60	1/2	3,157.05	1/2	2,815.71	1/2	2,473.92		
3/4		3/4		3/4	4,279.37	3/4	4,070.38	3/4	3,861.05	3/4	3,651.14	3/4	3,441.23	3/4	3,149.95	3/4	2,808.60	3/4	2,466.79		
3		3		3	4,275.02	3	4,066.03	3	3,856.68	3	3,646.77	3	3,436.86	3	3,142.86	3	2,801.49	3	2,459.66		
1/4		1/4		1/4	4,270.66	1/4	4,061.67	1/4	3,852.30	1/4	3,642.39	1/4	3,432.49	1/4	3,135.76	1/4	2,794.37	1/4	2,452.53		
1/2		1/2		1/2	4,266.31	1/2	4,057.32	1/2	3,847.93	1/2	3,638.02	1/2	3,428.11	1/2	3,128.65	1/2	2,787.26	1/2	2,445.40		
3/4		3/4		3/4	4,261.95	3/4	4,052.97	3/4	3,843.56	3/4	3,633.65	3/4	3,423.74	3/4	3,121.54	3/4	2,780.15	3/4	2,438.27		
4		4		4	4,257.60	4	4,048.61	4	3,839.18	4	3,629.28	4	3,419.37	4	3,114.43	4	2,773.04	4	2,431.14		
1/4		1/4		1/4	4,253.25	1/4	4,044.26	1/4	3,834.81	1/4	3,624.90	1/4	3,414.99	1/4	3,107.31	1/4	2,765.92	1/4	2,424.01		
1/2		1/2		1/2	4,248.89	1/2	4,039.90	1/2	3,830.44	1/2	3,620.53	1/2	3,410.62	1/2	3,100.20	1/2	2,758.81	1/2	2,416.88		
3/4		3/4		3/4	4,244.54	3/4	4,035.55	3/4	3,826.06	3/4	3,616.16	3/4	3,406.25	3/4	3,093.09	3/4	2,751.70	3/4	2,409.75		
5		5		5	4,240.18	5	4,031.20	5	3,821.69	5	3,611.78	5	3,401.87	5	3,085.98	5	2,744.59	5	2,402.62		
1/4		1/4		1/4	4,235.83	1/4	4,026.84	1/4	3,817.32	1/4	3,607.41	1/4	3,397.50	1/4	3,078.87	1/4	2,737.48	1/4	2,395.49		
1/2		1/2		1/2	4,231.48	1/2	4,022.49	1/2	3,812.95	1/2	3,603.04	1/2	3,393.16	1/2	3,071.75	1/2	2,730.36	1/2	2,388.36		
3/4		3/4		3/4	4,227.12	3/4	4,018.14	3/4	3,808.57	3/4	3,598.66	3/4	3,388.83	3/4	3,064.64	3/4	2,723.25	3/4	2,381.23		
6		6		6	4,222.77	6	4,013.78	6	3,804.20	6	3,594.29	6	3,384.49	6	3,057.53	6	2,716.14	6	2,374.10		
1/4		1/4		1/4	4,403.82	1/4	4,218.41	1/4	4,009.43	1/4	3,799.83	1/4	3,589.92	1/4	3,380.15	1/4	3,050.42	1/4	2,709.03	1/4	2,366.97
1/2		1/2		1/2	4,402.11	1/2	4,214.06	1/2	4,005.07	1/2	3,795.45	1/2	3,585.54	1/2	3,375.81	1/2	3,043.30	1/2	2,701.91	1/2	2,359.84
3/4		3/4		3/4	4,400.40	3/4	4,209.71	3/4	4,000.72	3/4	3,791.08	3/4	3,581.17	3/4	3,371.48	3/4	3,036.19	3/4	2,694.80	3/4	2,352.71
7		7		7	4,398.70	7	4,205.35	7	3,996.37	7	3,786.71	7	3,576.80	7	3,367.14	7	3,029.08	7	2,687.69	7	2,345.57
1/4		1/4		1/4	4,396.99	1/4	4,201.00	1/4	3,992.01	1/4	3,782.33	1/4	3,572.42	1/4	3,362.80	1/4	3,021.97	1/4	2,680.58	1/4	2,338.44
1/2		1/2		1/2	4,394.74	1/2	4,196.65	1/2	3,987.66	1/2	3,777.96	1/2	3,568.05	1/2	3,355.71	1/2	3,014.85	1/2	2,673.46	1/2	2,331.31
3/4		3/4		3/4	4,392.49	3/4	4,192.29	3/4	3,983.30	3/4	3,773.59	3/4	3,563.68	3/4	3,348.61	3/4	3,007.74	3/4	2,666.35	3/4	2,324.18
8		8		8	4,390.25	8	4,187.94	8	3,978.95	8	3,769.21	8	3,559.31	8	3,341.52	8	3,000.63	8	2,659.24	8	2,317.05
1/4		1/4		1/4	4,388.00	1/4	4,183.58	1/4	3,974.60	1/4	3,764.84	1/4	3,554.93	1/4	3,334.42	1/4	2,993.52	1/4	2,652.13	1/4	2,309.92
1/2		1/2		1/2	4,384.56	1/2	4,179.23	1/2	3,970.24	1/2	3,760.47	1/2	3,550.56	1/2	3,327.33	1/2	2,986.41	1/2	2,645.02	1/2	2,302.79
3/4		3/4		3/4	4,381.13	3/4	4,174.88	3/4	3,965.89	3/4	3,756.10	3/4	3,546.19	3/4	3,320.23	3/4	2,979.29	3/4	2,637.90	3/4	2,295.66
9		9		9	4,377.69	9	4,170.52	9	3,961.53	9	3,751.72	9	3,541.81	9	3,313.14	9	2,972.18	9	2,630.79	9	2,288.53
1/4		1/4		1/4	4,374.26	1/4	4,166.17	1/4	3,957.18	1/4	3,747.35	1/4	3,537.44	1/4	3,306.04	1/4	2,965.07	1/4	2,623.68	1/4	2,281.40
1/2		1/2		1/2	4,370.00	1/2	4,161.81	1/2	3,952.83	1/2	3,742.98	1/2	3,533.07	1/2	3,298.95	1/2	2,957.96	1/2	2,616.55	1/2	2,274.27
3/4		3/4		3/4	4,365.74	3/4	4,157.46	3/4	3,948.47	3/4	3,738.60	3/4	3,528.69	3/4	3,291.85	3/4	2,950.84	3/4	2,609.42	3/4	2,267.14
10		10		10	4,361.49	10	4,153.11	10	3,944.12	10	3,734.23	10	3,524.32	10	3,284.76	10	2,943.73	10	2,602.28	10	2,260.01
1/4		1/4		1/4	4,357.23	1/4	4,148.75	1/4	3,939.77	1/4	3,729.86	1/4	3,519.95	1/4	3,277.66	1/4	2,936.62	1/4	2,595.15	1/4	2,252.88
1/2		1/2		1/2	4,352.92	1/2	4,144.40	1/2	3,935.39	1/2	3,725.48	1/2	3,515.57	1/2	3,270.57	1/2	2,929.51	1/2	2,588.02	1/2	2,245.75
3/4		3/4		3/4	4,348.60	3/4	4,140.04	3/4	3,931.02	3/4	3,721.11	3/4	3,511.20	3/4	3,263.47	3/4	2,922.40	3/4	2,580.89	3/4	2,238.62
11		11		11	4,344.29	11	4,135.69	11	3,926.65	11	3,716.74	11	3,506.83	11	3,256.38	11	2,915.28	11	2,573.76	11	2,231.49
1/4		1/4		1/4	4,339.98	1/4	4,131.34	1/4	3,922.27	1/4	3,712.36	1/4	3,502.46	1/4	3,249.28	1/4	2,908.17	1/4	2,566.63	1/4	2,224.36
1/2		1/2		1/2	4,335.66	1/2	4,126.98	1/2	3,917.90	1/2	3,707.99	1/2	3,498.08	1/2	3,242.19	1/2	2,901.06	1/2	2,559.50	1/2	2,217.23
3/4		3/4		3/4	4,331.33	3/4	4,122.63	3/4	3,913.53	3/4	3,703.62	3/4	3,493.71	3/4	3,235.09	3/4	2,893.95	3/4	2,552.36	3/4	2,210.10

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "MPX 421"

## 3 STBD

### ULLAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,202.96	0	1,860.70	0	1,518.44	0	1,176.17	0	834.40	0	492.16	0	149.90	0		0		0	
1/4	2,195.83	1/4	1,853.57	1/4	1,511.31	1/4	1,169.04	1/4	827.28	1/4	485.02	1/4	142.77	1/4	1/4	1/4		1/4	
1/2	2,188.70	1/2	1,846.44	1/2	1,504.18	1/2	1,161.91	1/2	820.15	1/2	477.89	1/2	135.64	1/2	1/2	1/2		1/2	
3/4	2,181.57	3/4	1,839.31	3/4	1,497.05	3/4	1,154.78	3/4	813.02	3/4	470.76	3/4	128.51	3/4	3/4	3/4		3/4	
1	2,174.44	1	1,832.18	1	1,489.91	1	1,147.65	1	805.89	1	463.63	1	121.38	1	1	1		1	
1/4	2,167.31	1/4	1,825.05	1/4	1,482.78	1/4	1,140.52	1/4	798.76	1/4	456.50	1/4	114.25	1/4	1/4	1/4		1/4	
1/2	2,160.18	1/2	1,817.92	1/2	1,475.65	1/2	1,133.39	1/2	791.63	1/2	449.37	1/2	107.14	1/2	1/2	1/2		1/2	
3/4	2,153.05	3/4	1,810.79	3/4	1,468.52	3/4	1,126.26	3/4	784.50	3/4	442.24	3/4	100.02	3/4	3/4	3/4		3/4	
2	2,145.92	2	1,803.66	2	1,461.39	2	1,119.13	2	777.37	2	435.11	2	92.90	2	2	2		2	
1/4	2,138.79	1/4	1,796.53	1/4	1,454.26	1/4	1,112.00	1/4	770.24	1/4	427.98	1/4	85.78	1/4	1/4	1/4		1/4	
1/2	2,131.66	1/2	1,789.40	1/2	1,447.13	1/2	1,104.87	1/2	763.11	1/2	420.85	1/2	78.68	1/2	1/2	1/2		1/2	
3/4	2,124.53	3/4	1,782.27	3/4	1,440.00	3/4	1,097.75	3/4	755.98	3/4	413.72	3/4	71.59	3/4	3/4	3/4		3/4	
3	2,117.40	3	1,775.13	3	1,432.87	3	1,090.62	3	748.85	3	406.59	3	64.49	3	3	3		3	
1/4	2,110.27	1/4	1,768.00	1/4	1,425.74	1/4	1,083.50	1/4	741.72	1/4	399.46	1/4	57.40	1/4	1/4	1/4		1/4	
1/2	2,103.14	1/2	1,760.87	1/2	1,418.61	1/2	1,076.38	1/2	734.59	1/2	392.33	1/2	51.16	1/2	1/2	1/2		1/2	
3/4	2,096.01	3/4	1,753.74	3/4	1,411.48	3/4	1,069.27	3/4	727.46	3/4	385.20	3/4	44.92	3/4	3/4	3/4		3/4	
4	2,088.88	4	1,746.61	4	1,404.35	4	1,062.15	4	720.32	4	378.07	4	38.69	4	4	4		4	
1/4	2,081.75	1/4	1,739.48	1/4	1,397.22	1/4	1,055.03	1/4	713.19	1/4	370.94	1/4	32.45	1/4	1/4	1/4		1/4	
1/2	2,074.62	1/2	1,732.35	1/2	1,390.09	1/2	1,047.92	1/2	706.06	1/2	363.81	1/2	27.99	1/2	1/2	1/2		1/2	
3/4	2,067.49	3/4	1,725.22	3/4	1,382.96	3/4	1,040.80	3/4	698.93	3/4	356.68	3/4	23.54	3/4	3/4	3/4		3/4	
5	2,060.35	5	1,718.09	5	1,375.83	5	1,033.68	5	691.80	5	349.55	5	19.08	5	5	5		5	
1/4	2,053.22	1/4	1,710.96	1/4	1,368.70	1/4	1,026.57	1/4	684.67	1/4	342.42	1/4	14.63	1/4	1/4	1/4		1/4	
1/2	2,046.09	1/2	1,703.83	1/2	1,361.57	1/2	1,019.45	1/2	677.54	1/2	335.29	1/2		1/2	1/2	1/2		1/2	
3/4	2,038.96	3/4	1,696.70	3/4	1,354.44	3/4	1,012.34	3/4	670.41	3/4	328.16	3/4		3/4	3/4	3/4		3/4	
6	2,031.83	6	1,689.57	6	1,347.30	6	1,005.22	6	663.28	6	321.03	6		6	6	6		6	
1/4	2,024.70	1/4	1,682.44	1/4	1,340.17	1/4	998.10	1/4	656.15	1/4	313.90	1/4		1/4	1/4	1/4		1/4	
1/2	2,017.57	1/2	1,675.31	1/2	1,333.04	1/2	990.99	1/2	649.02	1/2	306.77	1/2		1/2	1/2	1/2		1/2	
3/4	2,010.44	3/4	1,668.18	3/4	1,325.91	3/4	983.87	3/4	641.89	3/4	299.64	3/4		3/4	3/4	3/4		3/4	
7	2,003.31	7	1,661.05	7	1,318.78	7	976.75	7	634.76	7	292.51	7		7	7	7		7	
1/4	1,996.18	1/4	1,653.92	1/4	1,311.65	1/4	969.64	1/4	627.63	1/4	285.38	1/4		1/4	1/4	1/4		1/4	
1/2	1,989.05	1/2	1,646.79	1/2	1,304.52	1/2	962.52	1/2	620.50	1/2	278.25	1/2		1/2	1/2	1/2		1/2	
3/4	1,981.92	3/4	1,639.66	3/4	1,297.39	3/4	955.40	3/4	613.37	3/4	271.12	3/4		3/4	3/4	3/4		3/4	
8	1,974.79	8	1,632.52	8	1,290.26	8	948.29	8	606.24	8	263.99	8		8	8	8		8	
1/4	1,967.66	1/4	1,625.39	1/4	1,283.13	1/4	941.17	1/4	599.11	1/4	256.86	1/4		1/4	1/4	1/4		1/4	
1/2	1,960.53	1/2	1,618.26	1/2	1,276.00	1/2	934.05	1/2	591.98	1/2	249.72	1/2		1/2	1/2	1/2		1/2	
3/4	1,953.40	3/4	1,611.13	3/4	1,268.87	3/4	926.94	3/4	584.85	3/4	242.59	3/4		3/4	3/4	3/4		3/4	
9	1,946.27	9	1,604.00	9	1,261.74	9	919.82	9	577.72	9	235.46	9		9	9	9		9	
1/4	1,939.14	1/4	1,596.87	1/4	1,254.61	1/4	912.70	1/4	570.59	1/4	228.33	1/4		1/4	1/4	1/4		1/4	
1/2	1,932.01	1/2	1,589.74	1/2	1,247.48	1/2	905.59	1/2	563.46	1/2	221.20	1/2		1/2	1/2	1/2		1/2	
3/4	1,924.88	3/4	1,582.61	3/4	1,240.35	3/4	898.47	3/4	556.33	3/4	214.07	3/4		3/4	3/4	3/4		3/4	
10	1,917.74	10	1,575.48	10	1,233.22	10	891.36	10	549.20	10	206.94	10		10	10	10		10	
1/4	1,910.61	1/4	1,568.35	1/4	1,226.09	1/4	884.24	1/4	542.07	1/4	199.81	1/4		1/4	1/4	1/4		1/4	
1/2	1,903.48	1/2	1,561.22	1/2	1,218.96	1/2	877.12	1/2	534.94	1/2	192.68	1/2		1/2	1/2	1/2		1/2	
3/4	1,896.35	3/4	1,554.09	3/4	1,211.83	3/4	870.01	3/4	527.81	3/4	185.55	3/4		3/4	3/4	3/4		3/4	
11	1,889.22	11	1,546.96	11	1,204.69	11	862.89	11	520.68	11	178.42	11		11	11	11		11	
1/4	1,882.09	1/4	1,539.83	1/4	1,197.56	1/4	855.77	1/4	513.55	1/4	171.29	1/4		1/4	1/4	1/4		1/4	
1/2	1,874.96	1/2	1,532.70	1/2	1,190.43	1/2	848.65	1/2	506.42	1/2	164.16	1/2		1/2	1/2	1/2		1/2	
3/4	1,867.83	3/4	1,525.57	3/4	1,183.30	3/4	841.53	3/4	499.29	3/4	157.03	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## INNAGE (HERMETIC)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

June 30, 2021

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MPX 421"

## 1 PORT INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.67	0	291.34	0	626.42	0	967.94	0	1,310.44	0	1,653.77	0	1,997.10	0	2,340.43	0	2,683.76	0	3,027.05
1/4	17.60	1/4	297.95	1/4	633.58	1/4	975.04	1/4	1,317.60	1/4	1,660.93	1/4	2,004.26	1/4	2,347.58	1/4	2,690.91	1/4	3,034.20
1/2	20.52	1/2	304.55	1/2	640.73	1/2	982.13	1/2	1,324.75	1/2	1,668.08	1/2	2,011.41	1/2	2,354.74	1/2	2,698.06	1/2	3,041.35
3/4	23.44	3/4	311.16	3/4	647.88	3/4	989.22	3/4	1,331.90	3/4	1,675.23	3/4	2,018.56	3/4	2,361.89	3/4	2,705.21	3/4	3,048.50
1	26.37	1	317.77	1	655.03	1	996.31	1	1,339.05	1	1,682.38	1	2,025.71	1	2,369.04	1	2,712.36	1	3,055.65
1/4	31.16	1/4	324.47	1/4	662.18	1/4	1,003.41	1/4	1,346.21	1/4	1,689.54	1/4	2,032.87	1/4	2,376.20	1/4	2,719.52	1/4	3,062.80
1/2	35.96	1/2	331.16	1/2	669.34	1/2	1,010.50	1/2	1,353.36	1/2	1,696.69	1/2	2,040.02	1/2	2,383.35	1/2	2,726.67	1/2	3,069.95
3/4	40.75	3/4	337.85	3/4	676.49	3/4	1,017.59	3/4	1,360.51	3/4	1,703.84	3/4	2,047.17	3/4	2,390.50	3/4	2,733.82	3/4	3,077.10
2	45.55	2	344.54	2	683.64	2	1,024.68	2	1,367.66	2	1,710.99	2	2,054.32	2	2,397.65	2	2,740.97	2	3,084.25
1/4	51.28	1/4	351.32	1/4	690.79	1/4	1,031.78	1/4	1,374.82	1/4	1,718.15	1/4	2,061.48	1/4	2,404.81	1/4	2,748.12	1/4	3,091.40
1/2	57.02	1/2	358.10	1/2	697.95	1/2	1,038.88	1/2	1,381.97	1/2	1,725.30	1/2	2,068.63	1/2	2,411.96	1/2	2,755.28	1/2	3,098.55
3/4	62.76	3/4	364.87	3/4	705.10	3/4	1,045.98	3/4	1,389.12	3/4	1,732.45	3/4	2,075.78	3/4	2,419.11	3/4	2,762.43	3/4	3,105.70
3	68.49	3	371.65	3	712.25	3	1,053.08	3	1,396.28	3	1,739.61	3	2,082.93	3	2,426.26	3	2,769.58	3	3,112.85
1/4	74.34	1/4	378.51	1/4	719.40	1/4	1,060.20	1/4	1,403.43	1/4	1,746.76	1/4	2,090.09	1/4	2,433.42	1/4	2,776.73	1/4	3,120.00
1/2	80.19	1/2	385.37	1/2	726.56	1/2	1,067.32	1/2	1,410.58	1/2	1,753.91	1/2	2,097.24	1/2	2,440.57	1/2	2,783.88	1/2	3,127.15
3/4	86.03	3/4	392.23	3/4	733.71	3/4	1,074.44	3/4	1,417.73	3/4	1,761.06	3/4	2,104.39	3/4	2,447.72	3/4	2,791.04	3/4	3,134.30
4	91.88	4	399.09	4	740.86	4	1,081.56	4	1,424.89	4	1,768.22	4	2,111.55	4	2,454.88	4	2,798.19	4	3,141.45
1/4	97.82	1/4	406.03	1/4	747.98	1/4	1,088.71	1/4	1,432.04	1/4	1,775.37	1/4	2,118.70	1/4	2,462.03	1/4	2,805.34	1/4	3,148.60
1/2	103.76	1/2	412.98	1/2	755.10	1/2	1,095.86	1/2	1,439.19	1/2	1,782.52	1/2	2,125.85	1/2	2,469.18	1/2	2,812.49	1/2	3,155.75
3/4	109.70	3/4	419.92	3/4	762.22	3/4	1,103.01	3/4	1,446.34	3/4	1,789.67	3/4	2,133.00	3/4	2,476.33	3/4	2,819.64	3/4	3,162.90
5	115.64	5	426.86	5	769.33	5	1,110.17	5	1,453.50	5	1,796.83	5	2,140.16	5	2,483.49	5	2,826.80	5	3,170.05
1/4	121.66	1/4	433.89	1/4	776.43	1/4	1,117.32	1/4	1,460.65	1/4	1,803.98	1/4	2,147.31	1/4	2,490.64	1/4	2,833.95	1/4	3,177.20
1/2	127.69	1/2	440.91	1/2	783.53	1/2	1,124.47	1/2	1,467.80	1/2	1,811.13	1/2	2,154.46	1/2	2,497.79	1/2	2,841.10	1/2	3,184.35
3/4	133.71	3/4	447.93	3/4	790.63	3/4	1,131.63	3/4	1,474.96	3/4	1,818.28	3/4	2,161.61	3/4	2,504.94	3/4	2,848.25	3/4	3,191.50
6	139.73	6	454.95	6	797.74	6	1,138.78	6	1,482.11	6	1,825.44	6	2,168.77	6	2,512.10	6	2,855.40	6	3,198.65
1/4	145.84	1/4	462.06	1/4	804.83	1/4	1,145.93	1/4	1,489.26	1/4	1,832.59	1/4	2,175.92	1/4	2,519.25	1/4	2,862.56	1/4	3,205.80
1/2	151.95	1/2	469.16	1/2	811.92	1/2	1,153.08	1/2	1,496.41	1/2	1,839.74	1/2	2,183.07	1/2	2,526.40	1/2	2,869.71	1/2	3,212.95
3/4	158.06	3/4	476.27	3/4	819.01	3/4	1,160.24	3/4	1,503.57	3/4	1,846.90	3/4	2,190.23	3/4	2,533.55	3/4	2,876.86	3/4	3,220.10
7	164.17	7	483.37	7	826.10	7	1,167.39	7	1,510.72	7	1,854.05	7	2,197.38	7	2,540.71	7	2,884.01	7	3,227.25
1/4	170.36	1/4	490.53	1/4	833.19	1/4	1,174.54	1/4	1,517.87	1/4	1,861.20	1/4	2,204.53	1/4	2,547.86	1/4	2,891.16	1/4	3,234.40
1/2	176.55	1/2	497.68	1/2	840.29	1/2	1,181.69	1/2	1,525.02	1/2	1,868.35	1/2	2,211.68	1/2	2,555.01	1/2	2,898.32	1/2	3,241.55
3/4	182.74	3/4	504.83	3/4	847.38	3/4	1,188.85	3/4	1,532.18	3/4	1,875.51	3/4	2,218.84	3/4	2,562.17	3/4	2,905.47	3/4	3,248.70
8	188.93	8	511.98	8	854.47	8	1,196.00	8	1,539.33	8	1,882.66	8	2,225.99	8	2,569.32	8	2,912.62	8	3,255.85
1/4	195.21	1/4	519.14	1/4	861.56	1/4	1,203.15	1/4	1,546.48	1/4	1,889.81	1/4	2,233.14	1/4	2,576.47	1/4	2,919.77	1/4	3,263.01
1/2	201.48	1/2	526.29	1/2	868.65	1/2	1,210.31	1/2	1,553.63	1/2	1,896.96	1/2	2,240.29	1/2	2,583.62	1/2	2,926.92	1/2	3,270.16
3/4	207.76	3/4	533.44	3/4	875.75	3/4	1,217.46	3/4	1,560.79	3/4	1,904.12	3/4	2,247.45	3/4	2,590.78	3/4	2,934.08	3/4	3,277.31
9	214.03	9	540.59	9	882.84	9	1,224.61	9	1,567.94	9	1,911.27	9	2,254.60	9	2,597.93	9	2,941.23	9	3,284.46
1/4	220.39	1/4	547.75	1/4	889.93	1/4	1,231.76	1/4	1,575.09	1/4	1,918.42	1/4	2,261.75	1/4	2,605.08	1/4	2,948.38	1/4	3,291.61
1/2	226.75	1/2	554.90	1/2	897.02	1/2	1,238.92	1/2	1,582.25	1/2	1,925.58	1/2	2,268.90	1/2	2,612.23	1/2	2,955.53	1/2	3,298.76
3/4	233.11	3/4	562.05	3/4	904.11	3/4	1,246.07	3/4	1,589.40	3/4	1,932.73	3/4	2,276.06	3/4	2,619.39	3/4	2,962.68	3/4	3,305.91
10	239.46	10	569.20	10	911.21	10	1,253.22	10	1,596.55	10	1,939.88	10	2,283.21	10	2,626.54	10	2,969.84	10	3,313.06
1/4	245.91	1/4	576.36	1/4	918.30	1/4	1,260.37	1/4	1,603.70	1/4	1,947.03	1/4	2,290.36	1/4	2,633.69	1/4	2,976.99	1/4	3,320.21
1/2	252.35	1/2	583.51	1/2	925.39	1/2	1,267.53	1/2	1,610.86	1/2	1,954.19	1/2	2,297.52	1/2	2,640.84	1/2	2,984.14	1/2	3,327.36
3/4	258.79	3/4	590.66	3/4	932.48	3/4	1,274.68	3/4	1,618.01	3/4	1,961.34	3/4	2,304.67	3/4	2,648.00	3/4	2,991.29	3/4	3,334.51
11	265.23	11	597.81	11	939.58	11	1,281.83	11	1,625.16	11	1,968.49	11	2,311.82	11	2,655.15	11	2,998.44	11	3,341.66
1/4	271.76	1/4	604.97	1/4	946.67	1/4	1,288.99	1/4	1,632.31	1/4	1,975.64	1/4	2,318.97	1/4	2,662.30	1/4	3,005.59	1/4	3,348.81
1/2	278.28	1/2	612.12	1/2	953.76	1/2	1,296.14	1/2	1,639.47	1/2	1,982.80	1/2	2,326.13	1/2	2,669.45	1/2	3,012.74	1/2	3,355.96
3/4	284.81	3/4	619.27	3/4	960.85	3/4	1,303.29	3/4	1,646.62	3/4	1,989.95	3/4	2,333.28	3/4	2,676.60	3/4	3,019.89	3/4	3,363.11

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 1 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 16'-05"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,370.26	0	3,713.50	0	4,056.80	0	4,399.45	0	4,741.19	0		0		0		0		0	
1/4	3,377.41	1/4	3,720.65	1/4	4,063.95	1/4	4,406.57	1/4	4,748.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,384.56	1/2	3,727.80	1/2	4,071.10	1/2	4,413.69	1/2	4,755.43	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,391.71	3/4	3,734.95	3/4	4,078.25	3/4	4,420.81	3/4	4,762.55	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,398.86	1	3,742.10	1	4,085.40	1	4,427.93	1	4,769.67	1		1		1		1		1	
1/4	3,406.01	1/4	3,749.26	1/4	4,092.56	1/4	4,435.05	1/4	4,776.79	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,413.16	1/2	3,756.41	1/2	4,099.71	1/2	4,442.16	1/2	4,783.91	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,420.31	3/4	3,763.56	3/4	4,106.86	3/4	4,449.28	3/4	4,791.03	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,427.46	2	3,770.71	2	4,114.01	2	4,456.40	2	4,798.14	2		2		2		2		2	
1/4	3,434.61	1/4	3,777.86	1/4	4,121.17	1/4	4,463.52	1/4	4,805.26	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,441.76	1/2	3,785.02	1/2	4,128.32	1/2	4,470.64	1/2	4,812.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,448.91	3/4	3,792.17	3/4	4,135.47	3/4	4,477.76	3/4	4,819.50	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,456.06	3	3,799.32	3	4,142.62	3	4,484.88	3	4,826.62	3		3		3		3		3	
1/4	3,463.21	1/4	3,806.47	1/4	4,149.77	1/4	4,492.00	1/4	4,833.70	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,470.36	1/2	3,813.62	1/2	4,156.93	1/2	4,499.12	1/2	4,840.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,477.51	3/4	3,820.78	3/4	4,164.08	3/4	4,506.24	3/4	4,847.85	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,484.66	4	3,827.93	4	4,171.23	4	4,513.36	4	4,854.92	4		4		4		4		4	
1/4	3,491.81	1/4	3,835.08	1/4	4,178.38	1/4	4,520.48	1/4	4,862.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,498.96	1/2	3,842.23	1/2	4,185.53	1/2	4,527.60	1/2	4,869.07	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,506.12	3/4	3,849.39	3/4	4,192.69	3/4	4,534.72	3/4	4,876.15	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,513.27	5	3,856.54	5	4,199.84	5	4,541.84	5	4,883.22	5		5		5		5		5	
1/4	3,520.42	1/4	3,863.69	1/4	4,206.99	1/4	4,548.96	1/4	4,890.29	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,527.57	1/2	3,870.84	1/2	4,214.14	1/2	4,556.08	1/2	4,897.37	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,534.72	3/4	3,877.99	3/4	4,221.29	3/4	4,563.20	3/4	4,904.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,541.87	6	3,885.15	6	4,228.45	6	4,570.32	6	4,911.52	6		6		6		6		6	
1/4	3,549.02	1/4	3,892.30	1/4	4,235.60	1/4	4,577.44	1/4	4,918.58	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,556.17	1/2	3,899.45	1/2	4,242.75	1/2	4,584.56	1/2	4,925.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,563.32	3/4	3,906.60	3/4	4,249.90	3/4	4,591.68	3/4	4,932.70	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,570.47	7	3,913.75	7	4,257.06	7	4,598.80	7	4,939.76	7		7		7		7		7	
1/4	3,577.62	1/4	3,920.91	1/4	4,264.17	1/4	4,605.92	1/4	4,946.76	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,584.77	1/2	3,928.06	1/2	4,271.29	1/2	4,613.04	1/2	4,953.77	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,591.92	3/4	3,935.21	3/4	4,278.41	3/4	4,620.15	3/4	4,960.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,599.07	8	3,942.36	8	4,285.53	8	4,627.27	8	4,967.78	8		8		8		8		8	
1/4	3,606.22	1/4	3,949.51	1/4	4,292.65	1/4	4,634.39	1/4	4,973.96	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,613.37	1/2	3,956.67	1/2	4,299.77	1/2	4,641.51	1/2	4,980.14	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,620.52	3/4	3,963.82	3/4	4,306.89	3/4	4,648.63	3/4	4,986.32	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,627.67	9	3,970.97	9	4,314.01	9	4,655.75	9	4,992.50	9		9		9		9		9	
1/4	3,634.82	1/4	3,978.12	1/4	4,321.13	1/4	4,662.87	1/4	4,997.49	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,641.97	1/2	3,985.28	1/2	4,328.25	1/2	4,669.99	1/2	5,002.48	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,649.13	3/4	3,992.43	3/4	4,335.37	3/4	4,677.11	3/4	5,007.47	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,656.28	10	3,999.58	10	4,342.49	10	4,684.23	10	5,012.46	10		10		10		10		10	
1/4	3,663.43	1/4	4,006.73	1/4	4,349.61	1/4	4,691.35	1/4	5,016.25	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,670.58	1/2	4,013.88	1/2	4,356.73	1/2	4,698.47	1/2	5,020.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,677.74	3/4	4,021.04	3/4	4,363.85	3/4	4,705.59	3/4	5,023.84	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,684.89	11	4,028.19	11	4,370.97	11	4,712.71	11	5,027.64	11		11		11		11		11	
1/4	3,692.04	1/4	4,035.34	1/4	4,378.09	1/4	4,719.83	1/4		1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,699.19	1/2	4,042.49	1/2	4,385.21	1/2	4,726.95	1/2		1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,706.34	3/4	4,049.64	3/4	4,392.33	3/4	4,734.07	3/4		3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 1 STBD INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.65	0	290.83	0	625.41	0	967.97	0	1,310.67	0	1,653.45	0	1,996.23	0	2,339.01	0	2,681.78	0	3,024.54
1/4	17.57	1/4	297.43	1/4	632.55	1/4	975.10	1/4	1,317.81	1/4	1,660.59	1/4	2,003.37	1/4	2,346.15	1/4	2,688.92	1/4	3,031.68
1/2	20.48	1/2	304.03	1/2	639.69	1/2	982.23	1/2	1,324.96	1/2	1,667.73	1/2	2,010.51	1/2	2,353.29	1/2	2,696.06	1/2	3,038.81
3/4	23.40	3/4	310.62	3/4	646.83	3/4	989.37	3/4	1,332.10	3/4	1,674.87	3/4	2,017.65	3/4	2,360.43	3/4	2,703.20	3/4	3,045.95
1	26.32	1	317.22	1	653.98	1	996.50	1	1,339.24	1	1,682.02	1	2,024.79	1	2,367.57	1	2,710.35	1	3,053.09
1/4	31.11	1/4	323.90	1/4	661.12	1/4	1,003.63	1/4	1,346.38	1/4	1,689.16	1/4	2,031.93	1/4	2,374.71	1/4	2,717.49	1/4	3,060.23
1/2	35.89	1/2	330.59	1/2	668.26	1/2	1,010.76	1/2	1,353.52	1/2	1,696.30	1/2	2,039.08	1/2	2,381.85	1/2	2,724.63	1/2	3,067.37
3/4	40.68	3/4	337.27	3/4	675.40	3/4	1,017.90	3/4	1,360.66	3/4	1,703.44	3/4	2,046.22	3/4	2,388.99	3/4	2,731.77	3/4	3,074.51
2	45.46	2	343.95	2	682.54	2	1,025.03	2	1,367.80	2	1,710.58	2	2,053.36	2	2,396.14	2	2,738.91	2	3,081.65
1/4	51.19	1/4	350.71	1/4	689.68	1/4	1,032.17	1/4	1,374.94	1/4	1,717.72	1/4	2,060.50	1/4	2,403.28	1/4	2,746.05	1/4	3,088.79
1/2	56.92	1/2	357.48	1/2	696.82	1/2	1,039.31	1/2	1,382.09	1/2	1,724.86	1/2	2,067.64	1/2	2,410.42	1/2	2,753.19	1/2	3,095.92
3/4	62.64	3/4	364.24	3/4	703.96	3/4	1,046.45	3/4	1,389.23	3/4	1,732.00	3/4	2,074.78	3/4	2,417.56	3/4	2,760.33	3/4	3,103.06
3	68.37	3	371.01	3	711.10	3	1,053.59	3	1,396.37	3	1,739.15	3	2,081.92	3	2,424.70	3	2,767.47	3	3,110.20
1/4	74.21	1/4	377.86	1/4	718.24	1/4	1,060.73	1/4	1,403.51	1/4	1,746.29	1/4	2,089.06	1/4	2,431.84	1/4	2,774.61	1/4	3,117.34
1/2	80.04	1/2	384.71	1/2	725.38	1/2	1,067.87	1/2	1,410.65	1/2	1,753.43	1/2	2,096.21	1/2	2,438.98	1/2	2,781.75	1/2	3,124.48
3/4	85.88	3/4	391.56	3/4	732.53	3/4	1,075.01	3/4	1,417.79	3/4	1,760.57	3/4	2,103.35	3/4	2,446.12	3/4	2,788.90	3/4	3,131.62
4	91.72	4	398.40	4	739.67	4	1,082.16	4	1,424.93	4	1,767.71	4	2,110.49	4	2,453.27	4	2,796.04	4	3,138.76
1/4	97.64	1/4	405.34	1/4	746.81	1/4	1,089.30	1/4	1,432.07	1/4	1,774.85	1/4	2,117.63	1/4	2,460.41	1/4	2,803.18	1/4	3,145.90
1/2	103.57	1/2	412.27	1/2	753.95	1/2	1,096.44	1/2	1,439.22	1/2	1,781.99	1/2	2,124.77	1/2	2,467.55	1/2	2,810.32	1/2	3,153.03
3/4	109.50	3/4	419.20	3/4	761.09	3/4	1,103.58	3/4	1,446.36	3/4	1,789.13	3/4	2,131.91	3/4	2,474.69	3/4	2,817.46	3/4	3,160.17
5	115.43	5	426.13	5	768.23	5	1,110.72	5	1,453.50	5	1,796.28	5	2,139.05	5	2,481.83	5	2,824.60	5	3,167.31
1/4	121.44	1/4	433.15	1/4	775.37	1/4	1,117.86	1/4	1,460.64	1/4	1,803.42	1/4	2,146.19	1/4	2,488.97	1/4	2,831.74	1/4	3,174.45
1/2	127.46	1/2	440.17	1/2	782.51	1/2	1,125.00	1/2	1,467.78	1/2	1,810.56	1/2	2,153.34	1/2	2,496.11	1/2	2,838.88	1/2	3,181.59
3/4	133.47	3/4	447.18	3/4	789.65	3/4	1,132.14	3/4	1,474.92	3/4	1,817.70	3/4	2,160.48	3/4	2,503.25	3/4	2,846.02	3/4	3,188.73
6	139.49	6	454.20	6	796.79	6	1,139.28	6	1,482.06	6	1,824.84	6	2,167.62	6	2,510.40	6	2,853.16	6	3,195.87
1/4	145.58	1/4	461.30	1/4	803.93	1/4	1,146.43	1/4	1,489.20	1/4	1,831.98	1/4	2,174.76	1/4	2,517.54	1/4	2,860.30	1/4	3,203.01
1/2	151.68	1/2	468.40	1/2	811.06	1/2	1,153.57	1/2	1,496.34	1/2	1,839.12	1/2	2,181.90	1/2	2,524.68	1/2	2,867.45	1/2	3,210.15
3/4	157.78	3/4	475.49	3/4	818.19	3/4	1,160.71	3/4	1,503.49	3/4	1,846.26	3/4	2,189.04	3/4	2,531.82	3/4	2,874.59	3/4	3,217.28
7	163.87	7	482.59	7	825.32	7	1,167.85	7	1,510.63	7	1,853.40	7	2,196.18	7	2,538.96	7	2,881.73	7	3,224.42
1/4	170.06	1/4	489.73	1/4	832.46	1/4	1,174.99	1/4	1,517.77	1/4	1,860.55	1/4	2,203.32	1/4	2,546.10	1/4	2,888.87	1/4	3,231.56
1/2	176.24	1/2	496.88	1/2	839.59	1/2	1,182.13	1/2	1,524.91	1/2	1,867.69	1/2	2,210.46	1/2	2,553.24	1/2	2,896.01	1/2	3,238.70
3/4	182.42	3/4	504.02	3/4	846.72	3/4	1,189.27	3/4	1,532.05	3/4	1,874.83	3/4	2,217.61	3/4	2,560.38	3/4	2,903.15	3/4	3,245.84
8	188.60	8	511.16	8	853.85	8	1,196.41	8	1,539.19	8	1,881.97	8	2,224.75	8	2,567.52	8	2,910.29	8	3,252.98
1/4	194.86	1/4	518.30	1/4	860.98	1/4	1,203.56	1/4	1,546.33	1/4	1,889.11	1/4	2,231.89	1/4	2,574.67	1/4	2,917.43	1/4	3,260.12
1/2	201.13	1/2	525.44	1/2	868.12	1/2	1,210.70	1/2	1,553.47	1/2	1,896.25	1/2	2,239.03	1/2	2,581.81	1/2	2,924.57	1/2	3,267.26
3/4	207.39	3/4	532.58	3/4	875.25	3/4	1,217.84	3/4	1,560.62	3/4	1,903.39	3/4	2,246.17	3/4	2,588.95	3/4	2,931.71	3/4	3,274.39
9	213.65	9	539.72	9	882.38	9	1,224.98	9	1,567.76	9	1,910.53	9	2,253.31	9	2,596.09	9	2,938.85	9	3,281.53
1/4	220.00	1/4	546.86	1/4	889.51	1/4	1,232.12	1/4	1,574.90	1/4	1,917.68	1/4	2,260.45	1/4	2,603.23	1/4	2,946.00	1/4	3,288.67
1/2	226.35	1/2	554.00	1/2	896.65	1/2	1,239.26	1/2	1,582.04	1/2	1,924.82	1/2	2,267.59	1/2	2,610.37	1/2	2,953.14	1/2	3,295.81
3/4	232.70	3/4	561.14	3/4	903.78	3/4	1,246.40	3/4	1,589.18	3/4	1,931.96	3/4	2,274.74	3/4	2,617.51	3/4	2,960.28	3/4	3,302.95
10	239.05	10	568.28	10	910.91	10	1,253.54	10	1,596.32	10	1,939.10	10	2,281.88	10	2,624.65	10	2,967.42	10	3,310.09
1/4	245.48	1/4	575.43	1/4	918.04	1/4	1,260.69	1/4	1,603.46	1/4	1,946.24	1/4	2,289.02	1/4	2,631.80	1/4	2,974.56	1/4	3,317.23
1/2	251.91	1/2	582.57	1/2	925.18	1/2	1,267.83	1/2	1,610.60	1/2	1,953.38	1/2	2,296.16	1/2	2,638.94	1/2	2,981.70	1/2	3,324.37
3/4	258.34	3/4	589.71	3/4	932.31	3/4	1,274.97	3/4	1,617.75	3/4	1,960.52	3/4	2,303.30	3/4	2,646.08	3/4	2,988.84	3/4	3,331.50
11	264.77	11	596.85	11	939.44	11	1,282.11	11	1,624.89	11	1,967.66	11	2,310.44	11	2,653.22	11	2,995.98	11	3,338.64
1/4	271.28	1/4	603.99	1/4	946.57	1/4	1,289.25	1/4	1,632.03	1/4	1,974.81	1/4	2,317.58	1/4	2,660.36	1/4	3,003.12	1/4	3,345.78
1/2	277.80	1/2	611.13	1/2	953.70	1/2	1,296.39	1/2	1,639.17	1/2	1,981.95	1/2	2,324.72	1/2	2,667.50	1/2	3,010.26	1/2	3,352.92
3/4	284.31	3/4	618.27	3/4	960.84	3/4	1,303.53	3/4	1,646.31	3/4	1,989.09	3/4	2,331.87	3/4	2,674.64	3/4	3,017.40	3/4	3,360.06

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 1 STBD

### INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,367.20	0	3,709.89	0	4,052.64	0	4,394.75	0	4,735.94	0		0		0		0		0	
1/4	3,374.34	1/4	3,717.03	1/4	4,059.78	1/4	4,401.86	1/4	4,743.05	1/4		1/4		1/4		1/4		1/4	
1/2	3,381.48	1/2	3,724.17	1/2	4,066.93	1/2	4,408.96	1/2	4,750.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,388.62	3/4	3,731.31	3/4	4,074.07	3/4	4,416.07	3/4	4,757.26	3/4		3/4		3/4		3/4		3/4	
1	3,395.75	1	3,738.45	1	4,081.21	1	4,423.18	1	4,764.37	1		1		1		1		1	
1/4	3,402.89	1/4	3,745.59	1/4	4,088.35	1/4	4,430.29	1/4	4,771.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,410.03	1/2	3,752.73	1/2	4,095.49	1/2	4,437.40	1/2	4,778.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,417.17	3/4	3,759.87	3/4	4,102.63	3/4	4,444.50	3/4	4,785.69	3/4		3/4		3/4		3/4		3/4	
2	3,424.31	2	3,767.01	2	4,109.77	2	4,451.61	2	4,792.80	2		2		2		2		2	
1/4	3,431.45	1/4	3,774.15	1/4	4,116.91	1/4	4,458.72	1/4	4,799.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,438.59	1/2	3,781.29	1/2	4,124.05	1/2	4,465.83	1/2	4,807.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.73	3/4	3,788.43	3/4	4,131.19	3/4	4,472.94	3/4	4,814.13	3/4		3/4		3/4		3/4		3/4	
3	3,452.86	3	3,795.57	3	4,138.33	3	4,480.05	3	4,821.23	3		3		3		3		3	
1/4	3,460.00	1/4	3,802.72	1/4	4,145.47	1/4	4,487.15	1/4	4,828.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,467.14	1/2	3,809.86	1/2	4,152.61	1/2	4,494.26	1/2	4,835.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,474.28	3/4	3,817.00	3/4	4,159.76	3/4	4,501.37	3/4	4,842.43	3/4		3/4		3/4		3/4		3/4	
4	3,481.42	4	3,824.14	4	4,166.90	4	4,508.48	4	4,849.49	4		4		4		4		4	
1/4	3,488.56	1/4	3,831.28	1/4	4,174.04	1/4	4,515.59	1/4	4,856.55	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.70	1/2	3,838.42	1/2	4,181.18	1/2	4,522.69	1/2	4,863.62	1/2		1/2		1/2		1/2		1/2	
3/4	3,502.84	3/4	3,845.56	3/4	4,188.32	3/4	4,529.80	3/4	4,870.68	3/4		3/4		3/4		3/4		3/4	
5	3,509.97	5	3,852.70	5	4,195.46	5	4,536.91	5	4,877.74	5		5		5		5		5	
1/4	3,517.11	1/4	3,859.84	1/4	4,202.60	1/4	4,544.02	1/4	4,884.81	1/4		1/4		1/4		1/4		1/4	
1/2	3,524.25	1/2	3,866.98	1/2	4,209.74	1/2	4,551.13	1/2	4,891.87	1/2		1/2		1/2		1/2		1/2	
3/4	3,531.39	3/4	3,874.12	3/4	4,216.88	3/4	4,558.23	3/4	4,898.93	3/4		3/4		3/4		3/4		3/4	
6	3,538.53	6	3,881.26	6	4,224.02	6	4,565.34	6	4,905.99	6		6		6		6		6	
1/4	3,545.67	1/4	3,888.41	1/4	4,231.16	1/4	4,572.45	1/4	4,913.04	1/4		1/4		1/4		1/4		1/4	
1/2	3,552.81	1/2	3,895.55	1/2	4,238.30	1/2	4,579.56	1/2	4,920.09	1/2		1/2		1/2		1/2		1/2	
3/4	3,559.95	3/4	3,902.69	3/4	4,245.45	3/4	4,586.67	3/4	4,927.14	3/4		3/4		3/4		3/4		3/4	
7	3,567.09	7	3,909.83	7	4,252.59	7	4,593.77	7	4,934.19	7		7		7		7		7	
1/4	3,574.22	1/4	3,916.97	1/4	4,259.69	1/4	4,600.88	1/4	4,941.18	1/4		1/4		1/4		1/4		1/4	
1/2	3,581.36	1/2	3,924.11	1/2	4,266.80	1/2	4,607.99	1/2	4,948.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,588.50	3/4	3,931.25	3/4	4,273.91	3/4	4,615.10	3/4	4,955.17	3/4		3/4		3/4		3/4		3/4	
8	3,595.64	8	3,938.39	8	4,281.02	8	4,622.21	8	4,962.16	8		8		8		8		8	
1/4	3,602.78	1/4	3,945.53	1/4	4,288.13	1/4	4,629.32	1/4	4,968.33	1/4		1/4		1/4		1/4		1/4	
1/2	3,609.92	1/2	3,952.67	1/2	4,295.23	1/2	4,636.42	1/2	4,974.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,617.06	3/4	3,959.81	3/4	4,302.34	3/4	4,643.53	3/4	4,980.68	3/4		3/4		3/4		3/4		3/4	
9	3,624.20	9	3,966.95	9	4,309.45	9	4,650.64	9	4,986.85	9		9		9		9		9	
1/4	3,631.34	1/4	3,974.09	1/4	4,316.56	1/4	4,657.75	1/4	4,991.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,638.48	1/2	3,981.24	1/2	4,323.67	1/2	4,664.86	1/2	4,996.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,645.62	3/4	3,988.38	3/4	4,330.78	3/4	4,671.96	3/4	5,001.79	3/4		3/4		3/4		3/4		3/4	
10	3,652.76	10	3,995.52	10	4,337.88	10	4,679.07	10	5,006.77	10		10		10		10		10	
1/4	3,659.90	1/4	4,002.66	1/4	4,344.99	1/4	4,686.18	1/4	5,010.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,667.04	1/2	4,009.80	1/2	4,352.10	1/2	4,693.29	1/2	5,014.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,674.18	3/4	4,016.94	3/4	4,359.21	3/4	4,700.40	3/4	5,018.14	3/4		3/4		3/4		3/4		3/4	
11	3,681.32	11	4,024.08	11	4,366.32	11	4,707.50	11	5,021.93	11		11		11		11		11	
1/4	3,688.46	1/4	4,031.22	1/4	4,373.42	1/4	4,714.61	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,695.60	1/2	4,038.36	1/2	4,380.53	1/2	4,721.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,702.74	3/4	4,045.50	3/4	4,387.64	3/4	4,728.83	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 2 PORT INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.67	0	343.43	0	686.70	0	1,020.26	0	1,358.75	0	1,702.02	0	2,045.30	0	2,388.58	0	2,731.86	0	3,075.12
1/4	19.14	1/4	350.58	1/4	693.85	1/4	1,027.10	1/4	1,365.90	1/4	1,709.18	1/4	2,052.45	1/4	2,395.73	1/4	2,739.01	1/4	3,082.27
1/2	23.61	1/2	357.74	1/2	701.00	1/2	1,033.95	1/2	1,373.05	1/2	1,716.33	1/2	2,059.60	1/2	2,402.88	1/2	2,746.16	1/2	3,089.42
3/4	28.08	3/4	364.89	3/4	708.15	3/4	1,040.79	3/4	1,380.20	3/4	1,723.48	3/4	2,066.76	3/4	2,410.03	3/4	2,753.31	3/4	3,096.57
1	32.55	1	372.04	1	715.31	1	1,047.63	1	1,387.35	1	1,730.63	1	2,073.91	1	2,417.18	1	2,760.46	1	3,103.72
1/4	38.80	1/4	379.19	1/4	722.46	1/4	1,054.48	1/4	1,394.51	1/4	1,737.78	1/4	2,081.06	1/4	2,424.34	1/4	2,767.61	1/4	3,110.87
1/2	45.06	1/2	386.34	1/2	729.61	1/2	1,061.32	1/2	1,401.66	1/2	1,744.93	1/2	2,088.21	1/2	2,431.49	1/2	2,774.76	1/2	3,118.02
3/4	51.31	3/4	393.49	3/4	736.76	3/4	1,068.17	3/4	1,408.81	3/4	1,752.09	3/4	2,095.36	3/4	2,438.64	3/4	2,781.92	3/4	3,125.17
2	57.57	2	400.64	2	743.91	2	1,075.01	2	1,415.96	2	1,759.24	2	2,102.51	2	2,445.79	2	2,789.07	2	3,132.32
1/4	64.68	1/4	407.80	1/4	751.06	1/4	1,081.86	1/4	1,423.11	1/4	1,766.39	1/4	2,109.67	1/4	2,452.94	1/4	2,796.22	1/4	3,139.47
1/2	71.80	1/2	414.95	1/2	758.21	1/2	1,088.71	1/2	1,430.26	1/2	1,773.54	1/2	2,116.82	1/2	2,460.09	1/2	2,803.37	1/2	3,146.62
3/4	78.92	3/4	422.10	3/4	765.37	3/4	1,095.57	3/4	1,437.42	3/4	1,780.69	3/4	2,123.97	3/4	2,467.25	3/4	2,810.52	3/4	3,153.77
3	86.03	3	429.25	3	772.52	3	1,102.42	3	1,444.57	3	1,787.84	3	2,131.12	3	2,474.40	3	2,817.67	3	3,160.92
1/4	93.17	1/4	436.40	1/4	779.67	1/4	1,109.29	1/4	1,451.72	1/4	1,795.00	1/4	2,138.27	1/4	2,481.55	1/4	2,824.83	1/4	3,168.07
1/2	100.31	1/2	443.55	1/2	786.82	1/2	1,116.16	1/2	1,458.87	1/2	1,802.15	1/2	2,145.42	1/2	2,488.70	1/2	2,831.98	1/2	3,175.22
3/4	107.45	3/4	450.70	3/4	793.97	3/4	1,123.03	3/4	1,466.02	3/4	1,809.30	3/4	2,152.58	3/4	2,495.85	3/4	2,839.13	3/4	3,182.37
4	114.59	4	457.86	4	801.12	4	1,129.90	4	1,473.17	4	1,816.45	4	2,159.73	4	2,503.00	4	2,846.28	4	3,189.52
1/4	121.74	1/4	465.01	1/4	807.99	1/4	1,137.05	1/4	1,480.33	1/4	1,823.60	1/4	2,166.88	1/4	2,510.16	1/4	2,853.43	1/4	3,196.67
1/2	128.89	1/2	472.16	1/2	814.86	1/2	1,144.20	1/2	1,487.48	1/2	1,830.75	1/2	2,174.03	1/2	2,517.31	1/2	2,860.58	1/2	3,203.82
3/4	136.04	3/4	479.31	3/4	821.73	3/4	1,151.35	3/4	1,494.63	3/4	1,837.90	3/4	2,181.18	3/4	2,524.46	3/4	2,867.74	3/4	3,210.97
5	143.19	5	486.46	5	828.60	5	1,158.50	5	1,501.78	5	1,845.06	5	2,188.33	5	2,531.61	5	2,874.89	5	3,218.12
1/4	150.35	1/4	493.61	1/4	835.45	1/4	1,165.65	1/4	1,508.93	1/4	1,852.21	1/4	2,195.48	1/4	2,538.76	1/4	2,882.04	1/4	3,225.27
1/2	157.50	1/2	500.76	1/2	842.30	1/2	1,172.81	1/2	1,516.08	1/2	1,859.36	1/2	2,202.64	1/2	2,545.91	1/2	2,889.19	1/2	3,232.42
3/4	164.65	3/4	507.92	3/4	849.15	3/4	1,179.96	3/4	1,523.23	3/4	1,866.51	3/4	2,209.79	3/4	2,553.07	3/4	2,896.34	3/4	3,239.56
6	171.80	6	515.07	6	856.00	6	1,187.11	6	1,530.39	6	1,873.66	6	2,216.94	6	2,560.22	6	2,903.49	6	3,246.71
1/4	178.95	1/4	522.22	1/4	862.85	1/4	1,194.26	1/4	1,537.54	1/4	1,880.81	1/4	2,224.09	1/4	2,567.37	1/4	2,910.65	1/4	3,253.86
1/2	186.10	1/2	529.37	1/2	869.69	1/2	1,201.41	1/2	1,544.69	1/2	1,887.97	1/2	2,231.24	1/2	2,574.52	1/2	2,917.80	1/2	3,261.01
3/4	193.25	3/4	536.52	3/4	876.54	3/4	1,208.56	3/4	1,551.84	3/4	1,895.12	3/4	2,238.39	3/4	2,581.67	3/4	2,924.95	3/4	3,268.16
7	200.41	7	543.67	7	883.38	7	1,215.72	7	1,558.99	7	1,902.27	7	2,245.55	7	2,588.82	7	2,932.10	7	3,275.31
1/4	207.56	1/4	550.82	1/4	890.22	1/4	1,222.87	1/4	1,566.14	1/4	1,909.42	1/4	2,252.70	1/4	2,595.97	1/4	2,939.25	1/4	3,282.46
1/2	214.71	1/2	557.98	1/2	897.07	1/2	1,230.02	1/2	1,573.30	1/2	1,916.57	1/2	2,259.85	1/2	2,603.13	1/2	2,946.40	1/2	3,289.61
3/4	221.86	3/4	565.13	3/4	903.91	3/4	1,237.17	3/4	1,580.45	3/4	1,923.72	3/4	2,267.00	3/4	2,610.28	3/4	2,953.55	3/4	3,296.76
8	229.01	8	572.28	8	910.75	8	1,244.32	8	1,587.60	8	1,930.88	8	2,274.15	8	2,617.43	8	2,960.71	8	3,303.91
1/4	236.16	1/4	579.43	1/4	917.60	1/4	1,251.47	1/4	1,594.75	1/4	1,938.03	1/4	2,281.30	1/4	2,624.58	1/4	2,967.86	1/4	3,311.06
1/2	243.31	1/2	586.58	1/2	924.44	1/2	1,258.63	1/2	1,601.90	1/2	1,945.18	1/2	2,288.46	1/2	2,631.73	1/2	2,975.01	1/2	3,318.21
3/4	250.46	3/4	593.73	3/4	931.29	3/4	1,265.78	3/4	1,609.05	3/4	1,952.33	3/4	2,295.61	3/4	2,638.88	3/4	2,982.16	3/4	3,325.36
9	257.62	9	600.88	9	938.13	9	1,272.93	9	1,616.21	9	1,959.48	9	2,302.76	9	2,646.04	9	2,989.31	9	3,332.51
1/4	264.77	1/4	608.03	1/4	944.97	1/4	1,280.08	1/4	1,623.36	1/4	1,966.63	1/4	2,309.91	1/4	2,653.19	1/4	2,996.46	1/4	3,339.66
1/2	271.92	1/2	615.19	1/2	951.82	1/2	1,287.23	1/2	1,630.51	1/2	1,973.79	1/2	2,317.06	1/2	2,660.34	1/2	3,003.62	1/2	3,346.81
3/4	279.07	3/4	622.34	3/4	958.66	3/4	1,294.38	3/4	1,637.66	3/4	1,980.94	3/4	2,324.21	3/4	2,667.49	3/4	3,010.77	3/4	3,353.96
10	286.22	10	629.49	10	965.51	10	1,301.54	10	1,644.81	10	1,988.09	10	2,331.37	10	2,674.64	10	3,017.92	10	3,361.11
1/4	293.37	1/4	636.64	1/4	972.35	1/4	1,308.69	1/4	1,651.96	1/4	1,995.24	1/4	2,338.52	1/4	2,681.79	1/4	3,025.07	1/4	3,368.26
1/2	300.52	1/2	643.79	1/2	979.19	1/2	1,315.84	1/2	1,659.11	1/2	2,002.39	1/2	2,345.67	1/2	2,688.95	1/2	3,032.22	1/2	3,375.41
3/4	307.68	3/4	650.94	3/4	986.04	3/4	1,322.99	3/4	1,666.27	3/4	2,009.54	3/4	2,352.82	3/4	2,696.10	3/4	3,039.37	3/4	3,382.56
11	314.83	11	658.09	11	992.88	11	1,330.14	11	1,673.42	11	2,016.69	11	2,359.97	11	2,703.25	11	3,046.53	11	3,389.71
1/4	321.98	1/4	665.25	1/4	999.73	1/4	1,337.29	1/4	1,680.57	1/4	2,023.85	1/4	2,367.12	1/4	2,710.40	1/4	3,053.68	1/4	3,396.86
1/2	329.13	1/2	672.40	1/2	1,006.57	1/2	1,344.44	1/2	1,687.72	1/2	2,031.00	1/2	2,374.28	1/2	2,717.55	1/2	3,060.82	1/2	3,404.01
3/4	336.28	3/4	679.55	3/4	1,013.41	3/4	1,351.60	3/4	1,694.87	3/4	2,038.15	3/4	2,381.43	3/4	2,724.70	3/4	3,067.97	3/4	3,411.16

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 2 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 16'-04 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,418.30	0	3,761.49	0	4,104.67	0	4,447.20	0	4,788.81	0		0		0		0		0	
1/4	3,425.45	1/4	3,768.64	1/4	4,111.82	1/4	4,454.31	1/4	4,795.93	1/4		1/4		1/4		1/4		1/4	
1/2	3,432.60	1/2	3,775.78	1/2	4,118.97	1/2	4,461.43	1/2	4,803.05	1/2		1/2		1/2		1/2		1/2	
3/4	3,439.75	3/4	3,782.93	3/4	4,126.12	3/4	4,468.55	3/4	4,810.16	3/4		3/4		3/4		3/4		3/4	
1	3,446.90	1	3,790.08	1	4,133.26	1	4,475.66	1	4,817.28	1		1		1		1		1	
1/4	3,454.05	1/4	3,797.23	1/4	4,140.41	1/4	4,482.78	1/4	4,824.40	1/4		1/4		1/4		1/4		1/4	
1/2	3,461.20	1/2	3,804.38	1/2	4,147.56	1/2	4,489.90	1/2	4,831.51	1/2		1/2		1/2		1/2		1/2	
3/4	3,468.35	3/4	3,811.53	3/4	4,154.71	3/4	4,497.01	3/4	4,838.63	3/4		3/4		3/4		3/4		3/4	
2	3,475.50	2	3,818.68	2	4,161.86	2	4,504.13	2	4,845.75	2		2		2		2		2	
1/4	3,482.65	1/4	3,825.83	1/4	4,169.01	1/4	4,511.25	1/4	4,852.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,489.80	1/2	3,832.98	1/2	4,176.16	1/2	4,518.37	1/2	4,859.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,496.95	3/4	3,840.13	3/4	4,183.31	3/4	4,525.48	3/4	4,867.10	3/4		3/4		3/4		3/4		3/4	
3	3,504.10	3	3,847.28	3	4,190.46	3	4,532.60	3	4,874.22	3		3		3		3		3	
1/4	3,511.25	1/4	3,854.43	1/4	4,197.61	1/4	4,539.72	1/4	4,881.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,518.40	1/2	3,861.58	1/2	4,204.76	1/2	4,546.83	1/2	4,888.36	1/2		1/2		1/2		1/2		1/2	
3/4	3,525.55	3/4	3,868.73	3/4	4,211.91	3/4	4,553.95	3/4	4,895.43	3/4		3/4		3/4		3/4		3/4	
4	3,532.70	4	3,875.88	4	4,219.06	4	4,561.07	4	4,902.50	4		4		4		4		4	
1/4	3,539.85	1/4	3,883.03	1/4	4,226.21	1/4	4,568.18	1/4	4,909.57	1/4		1/4		1/4		1/4		1/4	
1/2	3,547.00	1/2	3,890.18	1/2	4,233.36	1/2	4,575.30	1/2	4,916.65	1/2		1/2		1/2		1/2		1/2	
3/4	3,554.15	3/4	3,897.33	3/4	4,240.51	3/4	4,582.42	3/4	4,923.72	3/4		3/4		3/4		3/4		3/4	
5	3,561.30	5	3,904.48	5	4,247.66	5	4,589.54	5	4,930.79	5		5		5		5		5	
1/4	3,568.45	1/4	3,911.63	1/4	4,254.81	1/4	4,596.65	1/4	4,937.86	1/4		1/4		1/4		1/4		1/4	
1/2	3,575.60	1/2	3,918.78	1/2	4,261.96	1/2	4,603.77	1/2	4,944.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,582.75	3/4	3,925.93	3/4	4,269.11	3/4	4,610.89	3/4	4,952.00	3/4		3/4		3/4		3/4		3/4	
6	3,589.90	6	3,933.08	6	4,276.26	6	4,618.00	6	4,959.07	6		6		6		6		6	
1/4	3,597.04	1/4	3,940.23	1/4	4,283.41	1/4	4,625.12	1/4	4,966.12	1/4		1/4		1/4		1/4		1/4	
1/2	3,604.19	1/2	3,947.38	1/2	4,290.56	1/2	4,632.24	1/2	4,973.18	1/2		1/2		1/2		1/2		1/2	
3/4	3,611.34	3/4	3,954.52	3/4	4,297.71	3/4	4,639.35	3/4	4,980.24	3/4		3/4		3/4		3/4		3/4	
7	3,618.49	7	3,961.67	7	4,304.86	7	4,646.47	7	4,987.30	7		7		7		7		7	
1/4	3,625.64	1/4	3,968.82	1/4	4,311.97	1/4	4,653.59	1/4	4,994.30	1/4		1/4		1/4		1/4		1/4	
1/2	3,632.79	1/2	3,975.97	1/2	4,319.09	1/2	4,660.71	1/2	5,001.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,639.94	3/4	3,983.12	3/4	4,326.21	3/4	4,667.82	3/4	5,008.31	3/4		3/4		3/4		3/4		3/4	
8	3,647.09	8	3,990.27	8	4,333.32	8	4,674.94	8	5,015.31	8		8		8		8		8	
1/4	3,654.24	1/4	3,997.42	1/4	4,340.44	1/4	4,682.06	1/4	5,021.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,661.39	1/2	4,004.57	1/2	4,347.56	1/2	4,689.17	1/2	5,027.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,668.54	3/4	4,011.72	3/4	4,354.67	3/4	4,696.29	3/4	5,033.84	3/4		3/4		3/4		3/4		3/4	
9	3,675.69	9	4,018.87	9	4,018.87	9	4,703.41	9	5,040.02	9		9		9		9		9	
1/4	3,682.84	1/4	4,026.02	1/4	4,368.91	1/4	4,710.52	1/4	5,045.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,689.99	1/2	4,033.17	1/2	4,376.03	1/2	4,717.64	1/2	5,049.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,697.14	3/4	4,040.32	3/4	4,383.14	3/4	4,724.76	3/4	5,054.98	3/4		3/4		3/4		3/4		3/4	
10	3,704.29	10	4,047.47	10	4,390.26	10	4,731.88	10	5,059.97	10		10		10		10		10	
1/4	3,711.44	1/4	4,054.62	1/4	4,397.38	1/4	4,738.99	1/4	5,063.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,718.59	1/2	4,061.77	1/2	4,404.49	1/2	4,746.11	1/2	5,067.56	1/2		1/2		1/2		1/2		1/2	
3/4	3,725.74	3/4	4,068.92	3/4	4,411.61	3/4	4,753.23	3/4	5,071.35	3/4		3/4		3/4		3/4		3/4	
11	3,732.89	11	4,076.07	11	4,418.73	11	4,760.34	11	5,075.14	11		11		11		11		11	
1/4	3,740.04	1/4	4,083.22	1/4	4,425.84	1/4	4,767.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,747.19	1/2	4,090.37	1/2	4,432.96	1/2	4,774.58	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,754.34	3/4	4,097.52	3/4	4,440.08	3/4	4,781.69	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 2 STBD

### INNAGE TABLE

#### HERMETIC

#### GAUGE HEIGHT 16'-04 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.68	0	343.71	0	687.25	0	1,030.44	0	1,373.86	0	1,717.42	0	2,060.97	0	2,404.53	0	2,748.08	0	3,091.63
1/4	19.15	1/4	350.87	1/4	694.41	1/4	1,037.59	1/4	1,381.02	1/4	1,724.57	1/4	2,068.13	1/4	2,411.68	1/4	2,755.24	1/4	3,098.79
1/2	23.63	1/2	358.02	1/2	701.56	1/2	1,044.73	1/2	1,388.18	1/2	1,731.73	1/2	2,075.29	1/2	2,418.84	1/2	2,762.40	1/2	3,105.94
3/4	28.10	3/4	365.18	3/4	708.72	3/4	1,051.87	3/4	1,395.33	3/4	1,738.89	3/4	2,082.44	3/4	2,426.00	3/4	2,769.55	3/4	3,113.10
1	32.57	1	372.34	1	715.88	1	1,059.02	1	1,402.49	1	1,746.05	1	2,089.60	1	2,433.16	1	2,776.71	1	3,120.25
1/4	38.83	1/4	379.49	1/4	723.04	1/4	1,066.16	1/4	1,409.65	1/4	1,753.20	1/4	2,096.76	1/4	2,440.31	1/4	2,783.87	1/4	3,127.41
1/2	45.10	1/2	386.65	1/2	730.19	1/2	1,073.30	1/2	1,416.81	1/2	1,760.36	1/2	2,103.92	1/2	2,447.47	1/2	2,791.03	1/2	3,134.56
3/4	51.36	3/4	393.81	3/4	737.35	3/4	1,080.45	3/4	1,423.96	3/4	1,767.52	3/4	2,111.07	3/4	2,454.63	3/4	2,798.18	3/4	3,141.72
2	57.62	2	400.97	2	744.51	2	1,087.59	2	1,431.12	2	1,774.68	2	2,118.23	2	2,461.79	2	2,805.34	2	3,148.87
1/4	64.74	1/4	408.12	1/4	751.66	1/4	1,094.74	1/4	1,438.28	1/4	1,781.83	1/4	2,125.39	1/4	2,468.94	1/4	2,812.50	1/4	3,156.03
1/2	71.86	1/2	415.28	1/2	758.82	1/2	1,101.89	1/2	1,445.44	1/2	1,788.99	1/2	2,132.55	1/2	2,476.10	1/2	2,819.66	1/2	3,163.18
3/4	78.98	3/4	422.44	3/4	765.98	3/4	1,109.04	3/4	1,452.59	3/4	1,796.15	3/4	2,139.70	3/4	2,483.26	3/4	2,826.81	3/4	3,170.34
3	86.10	3	429.59	3	773.14	3	1,116.20	3	1,459.75	3	1,803.31	3	2,146.86	3	2,490.42	3	2,833.97	3	3,177.49
1/4	93.25	1/4	436.75	1/4	780.29	1/4	1,123.35	1/4	1,466.91	1/4	1,810.46	1/4	2,154.02	1/4	2,497.57	1/4	2,841.13	1/4	3,184.65
1/2	100.39	1/2	443.91	1/2	787.45	1/2	1,130.51	1/2	1,474.07	1/2	1,817.62	1/2	2,161.18	1/2	2,504.73	1/2	2,848.29	1/2	3,191.81
3/4	107.54	3/4	451.07	3/4	794.61	3/4	1,137.67	3/4	1,481.22	3/4	1,824.78	3/4	2,168.33	3/4	2,511.89	3/4	2,855.44	3/4	3,198.96
4	114.69	4	458.22	4	801.76	4	1,144.83	4	1,488.38	4	1,831.94	4	2,175.49	4	2,519.05	4	2,862.60	4	3,206.12
1/4	121.84	1/4	465.38	1/4	808.92	1/4	1,151.98	1/4	1,495.54	1/4	1,839.09	1/4	2,182.65	1/4	2,526.20	1/4	2,869.76	1/4	3,213.27
1/2	129.00	1/2	472.54	1/2	816.08	1/2	1,159.14	1/2	1,502.70	1/2	1,846.25	1/2	2,189.81	1/2	2,533.36	1/2	2,876.92	1/2	3,220.43
3/4	136.15	3/4	479.69	3/4	823.24	3/4	1,166.30	3/4	1,509.85	3/4	1,853.41	3/4	2,196.96	3/4	2,540.52	3/4	2,884.07	3/4	3,227.58
5	143.31	5	486.85	5	830.39	5	1,173.45	5	1,517.01	5	1,860.57	5	2,204.12	5	2,547.68	5	2,891.23	5	3,234.74
1/4	150.47	1/4	494.01	1/4	837.55	1/4	1,180.61	1/4	1,524.17	1/4	1,867.72	1/4	2,211.28	1/4	2,554.83	1/4	2,898.39	1/4	3,241.89
1/2	157.62	1/2	501.17	1/2	844.70	1/2	1,187.77	1/2	1,531.32	1/2	1,874.88	1/2	2,218.44	1/2	2,561.99	1/2	2,905.55	1/2	3,249.05
3/4	164.78	3/4	508.32	3/4	851.85	3/4	1,194.93	3/4	1,538.48	3/4	1,882.04	3/4	2,225.59	3/4	2,569.15	3/4	2,912.70	3/4	3,256.20
6	171.94	6	515.48	6	859.00	6	1,202.08	6	1,545.64	6	1,889.19	6	2,232.75	6	2,576.31	6	2,919.86	6	3,263.36
1/4	179.10	1/4	522.64	1/4	866.15	1/4	1,209.24	1/4	1,552.80	1/4	1,896.35	1/4	2,239.91	1/4	2,583.46	1/4	2,927.02	1/4	3,270.51
1/2	186.25	1/2	529.79	1/2	873.29	1/2	1,216.40	1/2	1,559.95	1/2	1,903.51	1/2	2,247.06	1/2	2,590.62	1/2	2,934.18	1/2	3,277.67
3/4	193.41	3/4	536.95	3/4	880.43	3/4	1,223.56	3/4	1,567.11	3/4	1,910.67	3/4	2,254.22	3/4	2,597.78	3/4	2,941.33	3/4	3,284.83
7	200.57	7	544.11	7	887.58	7	1,230.71	7	1,574.27	7	1,917.82	7	2,261.38	7	2,604.93	7	2,948.49	7	3,291.98
1/4	207.72	1/4	551.27	1/4	894.72	1/4	1,237.87	1/4	1,581.43	1/4	1,924.98	1/4	2,268.54	1/4	2,612.09	1/4	2,955.65	1/4	3,299.14
1/2	214.88	1/2	558.42	1/2	901.86	1/2	1,245.03	1/2	1,588.58	1/2	1,932.14	1/2	2,275.69	1/2	2,619.25	1/2	2,962.80	1/2	3,306.29
3/4	222.04	3/4	565.58	3/4	909.01	3/4	1,252.19	3/4	1,595.74	3/4	1,939.30	3/4	2,282.85	3/4	2,626.41	3/4	2,969.96	3/4	3,313.45
8	229.20	8	572.74	8	916.15	8	1,259.34	8	1,602.90	8	1,946.45	8	2,290.01	8	2,633.56	8	2,977.12	8	3,320.60
1/4	236.35	1/4	579.89	1/4	923.29	1/4	1,266.50	1/4	1,610.06	1/4	1,953.61	1/4	2,297.17	1/4	2,640.72	1/4	2,984.28	1/4	3,327.76
1/2	243.51	1/2	587.05	1/2	930.44	1/2	1,273.66	1/2	1,617.21	1/2	1,960.77	1/2	2,304.32	1/2	2,647.88	1/2	2,991.43	1/2	3,334.91
3/4	250.67	3/4	594.21	3/4	937.58	3/4	1,280.82	3/4	1,624.37	3/4	1,967.93	3/4	2,311.48	3/4	2,655.04	3/4	2,998.59	3/4	3,342.07
9	257.82	9	601.37	9	944.72	9	1,287.97	9	1,631.53	9	1,975.08	9	2,318.64	9	2,662.19	9	3,005.75	9	3,349.22
1/4	264.98	1/4	608.52	1/4	951.87	1/4	1,295.13	1/4	1,638.69	1/4	1,982.24	1/4	2,325.80	1/4	2,669.35	1/4	3,012.91	1/4	3,356.38
1/2	272.14	1/2	615.68	1/2	959.01	1/2	1,302.29	1/2	1,645.84	1/2	1,989.40	1/2	2,332.95	1/2	2,676.51	1/2	3,020.06	1/2	3,363.54
3/4	279.30	3/4	622.84	3/4	966.15	3/4	1,309.45	3/4	1,653.00	3/4	1,996.56	3/4	2,340.11	3/4	2,683.67	3/4	3,027.22	3/4	3,370.69
10	286.45	10	629.99	10	973.30	10	1,316.60	10	1,660.16	10	2,003.71	10	2,347.27	10	2,690.82	10	3,034.38	10	3,377.85
1/4	293.61	1/4	637.15	1/4	980.44	1/4	1,323.76	1/4	1,667.32	1/4	2,010.87	1/4	2,354.43	1/4	2,697.98	1/4	3,041.54	1/4	3,385.00
1/2	300.77	1/2	644.31	1/2	987.58	1/2	1,330.92	1/2	1,674.47	1/2	2,018.03	1/2	2,361.58	1/2	2,705.14	1/2	3,048.69	1/2	3,392.16
3/4	307.92	3/4	651.46	3/4	994.73	3/4	1,338.07	3/4	1,681.63	3/4	2,025.19	3/4	2,368.74	3/4	2,712.30	3/4	3,055.85	3/4	3,399.31
11	315.08	11	658.62	11	1,001.87	11	1,345.23	11	1,688.79	11	2,032.34	11	2,375.90	11	2,719.45	11	3,063.01	11	3,406.47
1/4	322.24	1/4	665.78	1/4	1,009.01	1/4	1,352.39	1/4	1,695.94	1/4	2,039.50	1/4	2,383.06	1/4	2,726.61	1/4	3,070.16	1/4	3,413.62
1/2	329.40	1/2	672.94	1/2	1,016.16	1/2	1,359.55	1/2	1,703.10	1/2	2,046.66	1/2	2,390.21	1/2	2,733.77	1/2	3,077.32	1/2	3,420.78
3/4	336.55	3/4	680.09	3/4	1,023.30	3/4	1,366.70	3/4	1,710.26	3/4	2,053.81	3/4	2,397.37	3/4	2,740.93	3/4	3,084.47	3/4	3,427.93

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "MPX 421"

**2 STBD  
INNAGE TABLE  
HERMETIC  
GAUGE HEIGHT 16'-04 1/2"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,435.09	0	3,778.57	0	4,122.13	0	4,465.03	0	4,807.01	0		0		0		0		0	
1/4	3,442.24	1/4	3,785.73	1/4	4,129.28	1/4	4,472.15	1/4	4,814.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,449.40	1/2	3,792.89	1/2	4,136.44	1/2	4,479.28	1/2	4,821.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,456.56	3/4	3,800.04	3/4	4,143.60	3/4	4,486.40	3/4	4,828.39	3/4		3/4		3/4		3/4		3/4	
1	3,463.71	1	3,807.20	1	4,150.76	1	4,493.53	1	4,835.51	1		1		1		1		1	
1/4	3,470.87	1/4	3,814.36	1/4	4,157.91	1/4	4,500.65	1/4	4,842.64	1/4		1/4		1/4		1/4		1/4	
1/2	3,478.02	1/2	3,821.52	1/2	4,165.07	1/2	4,507.78	1/2	4,849.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,485.18	3/4	3,828.67	3/4	4,172.23	3/4	4,514.90	3/4	4,856.89	3/4		3/4		3/4		3/4		3/4	
2	3,492.33	2	3,835.83	2	4,179.39	2	4,522.03	2	4,864.01	2		2		2		2		2	
1/4	3,499.49	1/4	3,842.99	1/4	4,186.54	1/4	4,529.15	1/4	4,871.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,506.64	1/2	3,850.15	1/2	4,193.70	1/2	4,536.28	1/2	4,878.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,513.80	3/4	3,857.30	3/4	4,200.86	3/4	4,543.40	3/4	4,885.39	3/4		3/4		3/4		3/4		3/4	
3	3,520.95	3	3,864.46	3	4,208.02	3	4,550.53	3	4,892.51	3		3		3		3		3	
1/4	3,528.11	1/4	3,871.62	1/4	4,215.17	1/4	4,557.65	1/4	4,899.59	1/4		1/4		1/4		1/4		1/4	
1/2	3,535.26	1/2	3,878.78	1/2	4,222.33	1/2	4,564.77	1/2	4,906.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,542.42	3/4	3,885.93	3/4	4,229.49	3/4	4,571.90	3/4	4,913.75	3/4		3/4		3/4		3/4		3/4	
4	3,549.58	4	3,893.09	4	4,236.65	4	4,579.02	4	4,920.83	4		4		4		4		4	
1/4	3,556.73	1/4	3,900.25	1/4	4,243.80	1/4	4,586.15	1/4	4,927.91	1/4		1/4		1/4		1/4		1/4	
1/2	3,563.89	1/2	3,907.41	1/2	4,250.96	1/2	4,593.27	1/2	4,934.99	1/2		1/2		1/2		1/2		1/2	
3/4	3,571.04	3/4	3,914.56	3/4	4,258.12	3/4	4,600.40	3/4	4,942.07	3/4		3/4		3/4		3/4		3/4	
5	3,578.20	5	3,921.72	5	4,265.28	5	4,607.52	5	4,949.15	5		5		5		5		5	
1/4	3,585.35	1/4	3,928.88	1/4	4,272.43	1/4	4,614.65	1/4	4,956.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,592.51	1/2	3,936.04	1/2	4,279.59	1/2	4,621.77	1/2	4,963.30	1/2		1/2		1/2		1/2		1/2	
3/4	3,599.66	3/4	3,943.19	3/4	4,286.75	3/4	4,628.90	3/4	4,970.38	3/4		3/4		3/4		3/4		3/4	
6	3,606.82	6	3,950.35	6	4,293.91	6	4,636.02	6	4,977.46	6		6		6		6		6	
1/4	3,613.97	1/4	3,957.51	1/4	4,301.06	1/4	4,643.15	1/4	4,984.53	1/4		1/4		1/4		1/4		1/4	
1/2	3,621.13	1/2	3,964.66	1/2	4,308.22	1/2	4,650.27	1/2	4,991.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,628.28	3/4	3,971.82	3/4	4,315.38	3/4	4,657.40	3/4	4,998.66	3/4		3/4		3/4		3/4		3/4	
7	3,635.44	7	3,978.98	7	4,322.53	7	4,664.52	7	5,005.72	7		7		7		7		7	
1/4	3,642.60	1/4	3,986.14	1/4	4,329.66	1/4	4,671.64	1/4	5,012.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,649.75	1/2	3,993.29	1/2	4,336.78	1/2	4,678.77	1/2	5,019.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,656.91	3/4	4,000.45	3/4	4,343.91	3/4	4,685.89	3/4	5,026.75	3/4		3/4		3/4		3/4		3/4	
8	3,664.06	8	4,007.61	8	4,351.03	8	4,693.02	8	5,033.76	8		8		8		8		8	
1/4	3,671.22	1/4	4,014.77	1/4	4,358.16	1/4	4,700.14	1/4	5,039.95	1/4		1/4		1/4		1/4		1/4	
1/2	3,678.37	1/2	4,021.92	1/2	4,365.28	1/2	4,707.27	1/2	5,046.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,685.53	3/4	4,029.08	3/4	4,372.41	3/4	4,714.39	3/4	5,052.32	3/4		3/4		3/4		3/4		3/4	
9	3,692.68	9	4,036.24	9	4,379.53	9	4,721.52	9	5,058.50	9		9		9		9		9	
1/4	3,699.84	1/4	4,043.40	1/4	4,386.66	1/4	4,728.64	1/4	5,063.50	1/4		1/4		1/4		1/4		1/4	
1/2	3,707.00	1/2	4,050.55	1/2	4,393.78	1/2	4,735.77	1/2	5,068.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,714.16	3/4	4,057.71	3/4	4,400.91	3/4	4,742.89	3/4	5,073.48	3/4		3/4		3/4		3/4		3/4	
10	3,721.31	10	4,064.87	10	4,408.03	10	4,750.02	10	5,078.47	10		10		10		10		10	
1/4	3,728.47	1/4	4,072.03	1/4	4,415.16	1/4	4,757.14	1/4	5,082.27	1/4		1/4		1/4		1/4		1/4	
1/2	3,735.63	1/2	4,079.18	1/2	4,422.28	1/2	4,764.27	1/2	5,086.07	1/2		1/2		1/2		1/2		1/2	
3/4	3,742.79	3/4	4,086.34	3/4	4,429.41	3/4	4,771.39	3/4	5,089.87	3/4		3/4		3/4		3/4		3/4	
11	3,749.94	11	4,093.50	11	4,436.53	11	4,778.52	11	5,093.67	11		11		11		11		11	
1/4	3,757.10	1/4	4,100.66	1/4	4,443.65	1/4	4,785.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,764.26	1/2	4,107.81	1/2	4,450.78	1/2	4,792.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,771.41	3/4	4,114.97	3/4	4,457.90	3/4	4,799.89	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 3 PORT INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.63	0	342.59	0	684.50	0	1,016.75	0	1,353.94	0	1,695.74	0	2,037.54	0	2,379.34	0	2,721.11	0	3,063.04
1/4	19.09	1/4	349.72	1/4	691.62	1/4	1,023.57	1/4	1,361.07	1/4	1,702.86	1/4	2,044.66	1/4	2,386.46	1/4	2,728.23	1/4	3,070.16
1/2	23.55	1/2	356.86	1/2	698.74	1/2	1,030.38	1/2	1,368.19	1/2	1,709.98	1/2	2,051.78	1/2	2,393.58	1/2	2,735.35	1/2	3,077.27
3/4	28.01	3/4	363.99	3/4	705.86	3/4	1,037.19	3/4	1,375.31	3/4	1,717.11	3/4	2,058.90	3/4	2,400.70	3/4	2,742.47	3/4	3,084.39
1	32.47	1	371.12	1	712.98	1	1,044.00	1	1,382.43	1	1,724.23	1	2,066.02	1	2,407.82	1	2,749.59	1	3,091.50
1/4	38.71	1/4	378.25	1/4	720.11	1/4	1,050.81	1/4	1,389.55	1/4	1,731.35	1/4	2,073.14	1/4	2,414.94	1/4	2,756.71	1/4	3,098.62
1/2	44.95	1/2	385.37	1/2	727.23	1/2	1,057.62	1/2	1,396.67	1/2	1,738.47	1/2	2,080.27	1/2	2,422.06	1/2	2,763.83	1/2	3,105.74
3/4	51.19	3/4	392.49	3/4	734.35	3/4	1,064.43	3/4	1,403.79	3/4	1,745.59	3/4	2,087.39	3/4	2,429.19	3/4	2,770.95	3/4	3,112.85
2	57.43	2	399.61	2	741.47	2	1,071.25	2	1,410.91	2	1,752.71	2	2,094.51	2	2,436.31	2	2,778.07	2	3,119.97
1/4	64.53	1/4	406.73	1/4	748.60	1/4	1,078.06	1/4	1,418.03	1/4	1,759.83	1/4	2,101.63	1/4	2,443.43	1/4	2,785.19	1/4	3,127.07
1/2	71.62	1/2	413.86	1/2	755.72	1/2	1,084.88	1/2	1,425.15	1/2	1,766.95	1/2	2,108.75	1/2	2,450.55	1/2	2,792.31	1/2	3,134.17
3/4	78.72	3/4	420.98	3/4	762.84	3/4	1,091.70	3/4	1,432.27	3/4	1,774.07	3/4	2,115.87	3/4	2,457.67	3/4	2,799.43	3/4	3,141.26
3	85.82	3	428.10	3	769.96	3	1,098.52	3	1,439.39	3	1,781.19	3	2,122.99	3	2,464.79	3	2,806.55	3	3,148.36
1/4	92.94	1/4	435.22	1/4	777.08	1/4	1,105.41	1/4	1,446.51	1/4	1,788.31	1/4	2,130.11	1/4	2,471.91	1/4	2,813.67	1/4	3,155.46
1/2	100.07	1/2	442.34	1/2	784.21	1/2	1,112.30	1/2	1,453.64	1/2	1,795.43	1/2	2,137.23	1/2	2,479.03	1/2	2,820.79	1/2	3,162.56
3/4	107.19	3/4	449.47	3/4	791.33	3/4	1,119.19	3/4	1,460.76	3/4	1,802.55	3/4	2,144.35	3/4	2,486.15	3/4	2,827.91	3/4	3,169.66
4	114.31	4	456.59	4	798.45	4	1,126.08	4	1,467.88	4	1,809.68	4	2,151.47	4	2,493.27	4	2,835.03	4	3,176.76
1/4	121.45	1/4	463.71	1/4	805.34	1/4	1,133.20	1/4	1,475.00	1/4	1,816.80	1/4	2,158.59	1/4	2,500.39	1/4	2,842.15	1/4	3,183.86
1/2	128.58	1/2	470.83	1/2	812.23	1/2	1,140.32	1/2	1,482.12	1/2	1,823.92	1/2	2,165.72	1/2	2,507.51	1/2	2,849.27	1/2	3,190.95
3/4	135.71	3/4	477.96	3/4	819.12	3/4	1,147.44	3/4	1,489.24	3/4	1,831.04	3/4	2,172.84	3/4	2,514.63	3/4	2,856.39	3/4	3,198.05
5	142.84	5	485.08	5	826.01	5	1,154.56	5	1,496.36	5	1,838.16	5	2,179.96	5	2,521.75	5	2,863.51	5	3,205.15
1/4	149.98	1/4	492.20	1/4	832.83	1/4	1,161.68	1/4	1,503.48	1/4	1,845.28	1/4	2,187.08	1/4	2,528.87	1/4	2,870.63	1/4	3,212.25
1/2	157.11	1/2	499.32	1/2	839.65	1/2	1,168.80	1/2	1,510.60	1/2	1,852.40	1/2	2,194.20	1/2	2,535.99	1/2	2,877.75	1/2	3,219.35
3/4	164.24	3/4	506.44	3/4	846.47	3/4	1,175.92	3/4	1,517.72	3/4	1,859.52	3/4	2,201.32	3/4	2,543.11	3/4	2,884.87	3/4	3,226.45
6	171.38	6	513.57	6	853.29	6	1,183.05	6	1,524.84	6	1,866.64	6	2,208.44	6	2,550.23	6	2,891.99	6	3,233.54
1/4	178.51	1/4	520.69	1/4	860.10	1/4	1,190.17	1/4	1,531.96	1/4	1,873.76	1/4	2,215.56	1/4	2,557.35	1/4	2,899.11	1/4	3,240.64
1/2	185.65	1/2	527.81	1/2	866.91	1/2	1,197.29	1/2	1,539.09	1/2	1,880.88	1/2	2,222.68	1/2	2,564.47	1/2	2,906.23	1/2	3,247.74
3/4	192.78	3/4	534.93	3/4	873.72	3/4	1,204.41	3/4	1,546.21	3/4	1,888.00	3/4	2,229.80	3/4	2,571.59	3/4	2,913.35	3/4	3,254.84
7	199.91	7	542.05	7	880.53	7	1,211.53	7	1,553.33	7	1,895.12	7	2,236.92	7	2,578.71	7	2,920.47	7	3,261.94
1/4	207.05	1/4	549.18	1/4	887.34	1/4	1,218.65	1/4	1,560.45	1/4	1,902.25	1/4	2,244.04	1/4	2,585.83	1/4	2,927.60	1/4	3,269.04
1/2	214.18	1/2	556.30	1/2	894.15	1/2	1,225.77	1/2	1,567.57	1/2	1,909.37	1/2	2,251.17	1/2	2,592.95	1/2	2,934.73	1/2	3,276.14
3/4	221.31	3/4	563.42	3/4	900.96	3/4	1,232.89	3/4	1,574.69	3/4	1,916.49	3/4	2,258.29	3/4	2,600.07	3/4	2,941.86	3/4	3,283.24
8	228.45	8	570.54	8	907.78	8	1,240.01	8	1,581.81	8	1,923.61	8	2,265.41	8	2,607.19	8	2,948.99	8	3,290.34
1/4	235.58	1/4	577.66	1/4	914.59	1/4	1,247.13	1/4	1,588.93	1/4	1,930.73	1/4	2,272.53	1/4	2,614.31	1/4	2,956.13	1/4	3,297.44
1/2	242.72	1/2	584.79	1/2	921.40	1/2	1,254.25	1/2	1,596.05	1/2	1,937.85	1/2	2,279.65	1/2	2,621.43	1/2	2,963.26	1/2	3,304.54
3/4	249.85	3/4	591.91	3/4	928.21	3/4	1,261.37	3/4	1,603.17	3/4	1,944.97	3/4	2,286.77	3/4	2,628.55	3/4	2,970.39	3/4	3,311.64
9	256.98	9	599.03	9	935.02	9	1,268.49	9	1,610.29	9	1,952.09	9	2,293.89	9	2,635.67	9	2,977.52	9	3,318.74
1/4	264.12	1/4	606.15	1/4	941.83	1/4	1,275.62	1/4	1,617.41	1/4	1,959.21	1/4	2,301.01	1/4	2,642.79	1/4	2,984.65	1/4	3,325.84
1/2	271.25	1/2	613.28	1/2	948.64	1/2	1,282.74	1/2	1,624.53	1/2	1,966.33	1/2	2,308.13	1/2	2,649.91	1/2	2,991.79	1/2	3,332.94
3/4	278.38	3/4	620.40	3/4	955.45	3/4	1,289.86	3/4	1,631.66	3/4	1,973.45	3/4	2,315.25	3/4	2,657.03	3/4	2,998.92	3/4	3,340.04
10	285.52	10	627.52	10	962.26	10	1,296.98	10	1,638.78	10	1,980.57	10	2,322.37	10	2,664.15	10	3,006.05	10	3,347.14
1/4	292.65	1/4	634.64	1/4	969.08	1/4	1,304.10	1/4	1,645.90	1/4	1,987.70	1/4	2,329.49	1/4	2,671.27	1/4	3,013.18	1/4	3,354.24
1/2	299.79	1/2	641.76	1/2	975.89	1/2	1,311.22	1/2	1,653.02	1/2	1,994.82	1/2	2,336.61	1/2	2,678.39	1/2	3,020.31	1/2	3,355.81
3/4	306.92	3/4	648.89	3/4	982.70	3/4	1,318.34	3/4	1,660.14	3/4	2,001.94	3/4	2,343.74	3/4	2,685.51	3/4	3,027.44	3/4	3,360.15
11	314.05	11	656.01	11	989.51	11	1,325.46	11	1,667.26	11	2,009.06	11	2,350.86	11	2,692.63	11	3,034.58	11	3,364.49
1/4	321.19	1/4	663.13	1/4	996.32	1/4	1,332.58	1/4	1,674.38	1/4	2,016.18	1/4	2,357.98	1/4	2,699.75	1/4	3,041.69	1/4	3,368.83
1/2	328.32	1/2	670.25	1/2	1,003.13	1/2	1,339.70	1/2	1,681.50	1/2	2,023.30	1/2	2,365.10	1/2	2,706.87	1/2	3,048.81	1/2	3,373.17
3/4	335.45	3/4	677.37	3/4	1,009.94	3/4	1,346.82	3/4	1,688.62	3/4	2,030.42	3/4	2,372.22	3/4	2,713.99	3/4	3,055.92	3/4	3,377.50

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 3 PORT INNAGE TABLE HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,381.84	0	3,591.13	0	3,800.99	0	4,010.46	0	4,219.40	0		0		0		0		0	
1/4	3,386.20	1/4	3,595.50	1/4	3,805.36	1/4	4,014.81	1/4	4,223.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,390.56	1/2	3,599.87	1/2	3,809.73	1/2	4,019.17	1/2	4,228.10	1/2		1/2		1/2		1/2		1/2	
3/4	3,394.91	3/4	3,604.25	3/4	3,814.10	3/4	4,023.52	3/4	4,232.46	3/4		3/4		3/4		3/4		3/4	
1	3,399.27	1	3,608.62	1	3,818.47	1	4,027.87	1	4,236.81	1		1		1		1		1	
1/4	3,403.62	1/4	3,612.99	1/4	3,822.85	1/4	4,032.22	1/4	4,241.16	1/4		1/4		1/4		1/4		1/4	
1/2	3,407.98	1/2	3,617.36	1/2	3,827.22	1/2	4,036.58	1/2	4,245.52	1/2		1/2		1/2		1/2		1/2	
3/4	3,412.34	3/4	3,621.73	3/4	3,831.59	3/4	4,040.93	3/4	4,249.87	3/4		3/4		3/4		3/4		3/4	
2	3,416.69	2	3,626.11	2	3,835.96	2	4,045.28	2	4,254.22	2		2		2		2		2	
1/4	3,421.05	1/4	3,630.48	1/4	3,840.33	1/4	4,049.64	1/4	4,258.58	1/4		1/4		1/4		1/4		1/4	
1/2	3,425.40	1/2	3,634.85	1/2	3,844.71	1/2	4,053.99	1/2	4,262.93	1/2		1/2		1/2		1/2		1/2	
3/4	3,429.76	3/4	3,639.22	3/4	3,849.08	3/4	4,058.34	3/4	4,267.28	3/4		3/4		3/4		3/4		3/4	
3	3,434.12	3	3,643.59	3	3,853.45	3	4,062.69	3	4,271.63	3		3		3		3		3	
1/4	3,438.47	1/4	3,647.97	1/4	3,857.82	1/4	4,067.05	1/4	4,275.96	1/4		1/4		1/4		1/4		1/4	
1/2	3,442.83	1/2	3,652.34	1/2	3,862.19	1/2	4,071.40	1/2	4,280.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,447.19	3/4	3,656.71	3/4	3,866.57	3/4	4,075.75	3/4	4,284.61	3/4		3/4		3/4		3/4		3/4	
4	3,451.54	4	3,661.08	4	3,870.94	4	4,080.11	4	4,288.94	4		4		4		4		4	
1/4	3,455.90	1/4	3,665.45	1/4	3,875.31	1/4	4,084.46	1/4	4,293.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,460.25	1/2	3,669.83	1/2	3,879.68	1/2	4,088.81	1/2	4,297.59	1/2		1/2		1/2		1/2		1/2	
3/4	3,464.61	3/4	3,674.20	3/4	3,884.05	3/4	4,093.16	3/4	4,301.91	3/4		3/4		3/4		3/4		3/4	
5	3,468.97	5	3,678.57	5	3,888.43	5	4,097.52	5	4,306.24	5		5		5		5		5	
1/4	3,473.32	1/4	3,682.94	1/4	3,892.80	1/4	4,101.87	1/4	4,310.56	1/4		1/4		1/4		1/4		1/4	
1/2	3,477.68	1/2	3,687.31	1/2	3,897.17	1/2	4,106.22	1/2	4,314.88	1/2		1/2		1/2		1/2		1/2	
3/4	3,482.04	3/4	3,691.69	3/4	3,901.54	3/4	4,110.58	3/4	4,319.20	3/4		3/4		3/4		3/4		3/4	
6	3,486.39	6	3,696.06	6	3,905.91	6	4,114.93	6	4,323.52	6		6		6		6		6	
1/4	3,490.75	1/4	3,700.43	1/4	3,910.29	1/4	4,119.28	1/4	4,327.84	1/4		1/4		1/4		1/4		1/4	
1/2	3,495.10	1/2	3,704.80	1/2	3,914.66	1/2	4,123.64	1/2	4,332.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,499.46	3/4	3,709.17	3/4	3,919.03	3/4	4,127.99	3/4	4,336.46	3/4		3/4		3/4		3/4		3/4	
7	3,503.82	7	3,713.55	7	3,923.40	7	4,132.34	7	4,340.77	7		7		7		7		7	
1/4	3,508.17	1/4	3,717.92	1/4	3,927.75	1/4	4,136.69	1/4	4,345.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,512.53	1/2	3,722.29	1/2	3,932.11	1/2	4,141.05	1/2	4,349.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,516.88	3/4	3,726.66	3/4	3,936.46	3/4	4,145.40	3/4	4,353.54	3/4		3/4		3/4		3/4		3/4	
8	3,521.24	8	3,731.03	8	3,940.81	8	4,149.75	8	4,357.80	8		8		8		8		8	
1/4	3,525.60	1/4	3,735.41	1/4	3,945.17	1/4	4,154.11	1/4	4,361.23	1/4		1/4		1/4		1/4		1/4	
1/2	3,529.95	1/2	3,739.78	1/2	3,949.52	1/2	4,158.46	1/2	4,364.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,534.31	3/4	3,744.15	3/4	3,953.87	3/4	4,162.81	3/4	4,368.10	3/4		3/4		3/4		3/4		3/4	
9	3,538.67	9	3,748.52	9	3,958.23	9	4,167.16	9	4,371.53	9		9		9		9		9	
1/4	3,543.04	1/4	3,752.89	1/4	3,962.58	1/4	4,171.52	1/4	4,373.78	1/4		1/4		1/4		1/4		1/4	
1/2	3,547.41	1/2	3,757.27	1/2	3,966.93	1/2	4,175.87	1/2	4,376.02	1/2		1/2		1/2		1/2		1/2	
3/4	3,551.78	3/4	3,761.64	3/4	3,971.28	3/4	4,180.22	3/4	4,378.26	3/4		3/4		3/4		3/4		3/4	
10	3,556.15	10	3,766.01	10	3,975.64	10	4,184.58	10	4,380.51	10		10		10		10		10	
1/4	3,560.53	1/4	3,770.38	1/4	3,979.99	1/4	4,188.93	1/4	4,382.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,564.90	1/2	3,774.75	1/2	3,984.34	1/2	4,193.28	1/2	4,383.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,569.27	3/4	3,779.13	3/4	3,988.70	3/4	4,197.63	3/4	4,385.63	3/4		3/4		3/4		3/4		3/4	
11	3,573.64	11	3,783.50	11	3,993.05	11	4,201.99	11	4,387.34	11		11		11		11		11	
1/4	3,578.01	1/4	3,787.87	1/4	3,997.40	1/4	4,206.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,582.39	1/2	3,792.24	1/2	4,001.75	1/2	4,210.69	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,586.76	3/4	3,796.61	3/4	4,006.11	3/4	4,215.05	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 3 STBD INNAGE TABLE

### HERMETIC GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	14.63	0	342.42	0	684.68	0	1,026.57	0	1,368.70	0	1,710.96	0	2,053.23	0	2,395.49	0	2,737.48	0	3,078.87
1/4	19.08	1/4	349.55	1/4	691.81	1/4	1,033.69	1/4	1,375.83	1/4	1,718.09	1/4	2,060.36	1/4	2,402.62	1/4	2,744.59	1/4	3,085.98
1/2	23.54	1/2	356.68	1/2	698.94	1/2	1,040.80	1/2	1,382.96	1/2	1,725.22	1/2	2,067.49	1/2	2,409.75	1/2	2,751.70	1/2	3,093.09
3/4	27.99	3/4	363.81	3/4	706.07	3/4	1,047.92	3/4	1,390.09	3/4	1,732.35	3/4	2,074.62	3/4	2,416.88	3/4	2,758.81	3/4	3,100.20
1	32.45	1	370.94	1	713.20	1	1,055.04	1	1,397.22	1	1,739.48	1	2,081.75	1	2,424.01	1	2,765.93	1	3,107.32
1/4	38.69	1/4	378.07	1/4	720.33	1/4	1,062.15	1/4	1,404.35	1/4	1,746.61	1/4	2,088.88	1/4	2,431.14	1/4	2,773.04	1/4	3,114.43
1/2	44.93	1/2	385.20	1/2	727.46	1/2	1,069.27	1/2	1,411.48	1/2	1,753.75	1/2	2,096.01	1/2	2,438.27	1/2	2,780.15	1/2	3,121.54
3/4	51.16	3/4	392.33	3/4	734.59	3/4	1,076.39	3/4	1,418.61	3/4	1,760.88	3/4	2,103.14	3/4	2,445.40	3/4	2,787.26	3/4	3,128.65
2	57.40	2	399.46	2	741.72	2	1,083.50	2	1,425.74	2	1,768.01	2	2,110.27	2	2,452.53	2	2,794.38	2	3,135.77
1/4	64.50	1/4	406.59	1/4	748.85	1/4	1,090.63	1/4	1,432.87	1/4	1,775.14	1/4	2,117.40	1/4	2,459.66	1/4	2,801.49	1/4	3,142.86
1/2	71.59	1/2	413.72	1/2	755.98	1/2	1,097.75	1/2	1,440.00	1/2	1,782.27	1/2	2,124.53	1/2	2,466.80	1/2	2,808.60	1/2	3,149.96
3/4	78.68	3/4	420.85	3/4	763.11	3/4	1,104.88	3/4	1,447.13	3/4	1,789.40	3/4	2,131.66	3/4	2,473.93	3/4	2,815.71	3/4	3,157.05
3	85.78	3	427.98	3	770.24	3	1,112.00	3	1,454.26	3	1,796.53	3	2,138.79	3	2,481.06	3	2,822.83	3	3,164.15
1/4	92.90	1/4	435.11	1/4	777.37	1/4	1,119.13	1/4	1,461.39	1/4	1,803.66	1/4	2,145.92	1/4	2,488.19	1/4	2,829.94	1/4	3,171.24
1/2	100.02	1/2	442.25	1/2	784.50	1/2	1,126.26	1/2	1,468.53	1/2	1,810.79	1/2	2,153.05	1/2	2,495.32	1/2	2,837.05	1/2	3,178.34
3/4	107.14	3/4	449.38	3/4	791.63	3/4	1,133.39	3/4	1,475.66	3/4	1,817.92	3/4	2,160.18	3/4	2,502.45	3/4	2,844.16	3/4	3,185.43
4	114.26	4	456.51	4	798.76	4	1,140.52	4	1,482.79	4	1,825.05	4	2,167.31	4	2,509.58	4	2,851.27	4	3,192.53
1/4	121.39	1/4	463.64	1/4	805.89	1/4	1,147.65	1/4	1,489.92	1/4	1,832.18	1/4	2,174.44	1/4	2,516.71	1/4	2,858.39	1/4	3,199.62
1/2	128.51	1/2	470.77	1/2	813.02	1/2	1,154.78	1/2	1,497.05	1/2	1,839.31	1/2	2,181.58	1/2	2,523.84	1/2	2,865.50	1/2	3,206.72
3/4	135.64	3/4	477.90	3/4	820.15	3/4	1,161.91	3/4	1,504.18	3/4	1,846.44	3/4	2,188.71	3/4	2,530.97	3/4	2,872.61	3/4	3,213.81
5	142.77	5	485.03	5	827.28	5	1,169.04	5	1,511.31	5	1,853.57	5	2,195.84	5	2,538.10	5	2,879.72	5	3,220.91
1/4	149.90	1/4	492.16	1/4	834.41	1/4	1,176.17	1/4	1,518.44	1/4	1,860.70	1/4	2,202.97	1/4	2,545.24	1/4	2,886.84	1/4	3,228.00
1/2	157.03	1/2	499.29	1/2	841.53	1/2	1,183.31	1/2	1,525.57	1/2	1,867.83	1/2	2,210.10	1/2	2,552.37	1/2	2,893.95	1/2	3,235.09
3/4	164.16	3/4	506.42	3/4	848.65	3/4	1,190.44	3/4	1,532.70	3/4	1,874.96	3/4	2,217.23	3/4	2,559.50	3/4	2,901.06	3/4	3,242.19
6	171.29	6	513.55	6	855.78	6	1,197.57	6	1,539.83	6	1,882.09	6	2,224.36	6	2,566.63	6	2,908.17	6	3,249.28
1/4	178.42	1/4	520.68	1/4	862.89	1/4	1,204.70	1/4	1,546.96	1/4	1,889.22	1/4	2,231.49	1/4	2,573.76	1/4	2,915.29	1/4	3,256.38
1/2	185.55	1/2	527.81	1/2	870.01	1/2	1,211.83	1/2	1,554.09	1/2	1,896.36	1/2	2,238.62	1/2	2,580.89	1/2	2,922.40	1/2	3,263.47
3/4	192.68	3/4	534.94	3/4	877.13	3/4	1,218.96	3/4	1,561.22	3/4	1,903.49	3/4	2,245.75	3/4	2,588.02	3/4	2,929.51	3/4	3,270.57
7	199.82	7	542.07	7	884.24	7	1,226.09	7	1,568.35	7	1,910.62	7	2,252.88	7	2,595.16	7	2,936.62	7	3,277.66
1/4	206.95	1/4	549.20	1/4	891.36	1/4	1,233.22	1/4	1,575.48	1/4	1,917.75	1/4	2,260.01	1/4	2,602.29	1/4	2,943.73	1/4	3,284.76
1/2	214.08	1/2	556.33	1/2	898.47	1/2	1,240.35	1/2	1,582.61	1/2	1,924.88	1/2	2,267.14	1/2	2,609.42	1/2	2,950.85	1/2	3,291.85
3/4	221.21	3/4	563.46	3/4	905.59	3/4	1,247.48	3/4	1,589.74	3/4	1,932.01	3/4	2,274.27	3/4	2,616.55	3/4	2,957.96	3/4	3,298.95
8	228.34	8	570.59	8	912.71	8	1,254.61	8	1,596.87	8	1,939.14	8	2,281.40	8	2,623.68	8	2,965.07	8	3,306.04
1/4	235.47	1/4	577.72	1/4	919.82	1/4	1,261.74	1/4	1,604.00	1/4	1,946.27	1/4	2,288.53	1/4	2,630.79	1/4	2,972.18	1/4	3,313.14
1/2	242.60	1/2	584.85	1/2	926.94	1/2	1,268.87	1/2	1,611.14	1/2	1,953.40	1/2	2,295.66	1/2	2,637.91	1/2	2,979.30	1/2	3,320.23
3/4	249.73	3/4	591.98	3/4	934.06	3/4	1,276.00	3/4	1,618.27	3/4	1,960.53	3/4	2,302.79	3/4	2,645.02	3/4	2,986.41	3/4	3,327.33
9	256.86	9	599.11	9	941.17	9	1,283.13	9	1,625.40	9	1,967.66	9	2,309.92	9	2,652.13	9	2,993.52	9	3,334.42
1/4	263.99	1/4	606.24	1/4	948.29	1/4	1,290.26	1/4	1,632.53	1/4	1,974.79	1/4	2,317.05	1/4	2,659.24	1/4	3,000.63	1/4	3,341.52
1/2	271.12	1/2	613.37	1/2	955.41	1/2	1,297.39	1/2	1,639.66	1/2	1,981.92	1/2	2,324.19	1/2	2,666.35	1/2	3,007.74	1/2	3,348.61
3/4	278.25	3/4	620.50	3/4	962.52	3/4	1,304.52	3/4	1,646.79	3/4	1,989.05	3/4	2,331.32	3/4	2,673.47	3/4	3,014.86	3/4	3,355.71
10	285.38	10	627.63	10	969.64	10	1,311.65	10	1,653.92	10	1,996.18	10	2,338.45	10	2,680.58	10	3,021.97	10	3,362.80
1/4	292.51	1/4	634.76	1/4	976.75	1/4	1,318.78	1/4	1,661.05	1/4	2,003.31	1/4	2,345.58	1/4	2,687.69	1/4	3,029.08	1/4	3,369.14
1/2	299.64	1/2	641.89	1/2	983.87	1/2	1,325.92	1/2	1,668.18	1/2	2,010.44	1/2	2,352.71	1/2	2,694.80	1/2	3,036.19	1/2	3,371.48
3/4	306.77	3/4	649.02	3/4	990.99	3/4	1,333.05	3/4	1,675.31	3/4	2,017.57	3/4	2,359.84	3/4	2,701.92	3/4	3,043.31	3/4	3,375.82
11	313.90	11	656.15	11	998.10	11	1,340.18	11	1,682.44	11	2,024.70	11	2,366.97	11	2,709.03	11	3,050.42	11	3,380.15
1/4	321.03	1/4	663.28	1/4	1,005.22	1/4	1,347.31	1/4	1,689.57	1/4	2,031.83	1/4	2,374.10	1/4	2,716.14	1/4	3,057.53	1/4	3,384.49
1/2	328.16	1/2	670.41	1/2	1,012.34	1/2	1,354.44	1/2	1,696.70	1/2	2,038.97	1/2	2,381.23	1/2	2,723.25	1/2	3,064.64	1/2	3,388.83
3/4	335.29	3/4	677.55	3/4	1,019.45	3/4	1,361.57	3/4	1,703.83	3/4	2,046.10	3/4	2,388.36	3/4	2,730.37	3/4	3,071.76	3/4	3,393.17

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 11'-06" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 3 STBD

### INNAGE TABLE

### HERMETIC

### GAUGE HEIGHT 16'-05 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,397.50	0	3,607.41	0	3,817.32	0	4,026.85	0	4,235.83	0		0		0		0		0	
1/4	3,401.88	1/4	3,611.78	1/4	3,821.69	1/4	4,031.20	1/4	4,240.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,406.25	1/2	3,616.16	1/2	3,826.07	1/2	4,035.55	1/2	4,244.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,410.62	3/4	3,620.53	3/4	3,830.44	3/4	4,039.91	3/4	4,248.89	3/4		3/4		3/4		3/4		3/4	
1	3,415.00	1	3,624.90	1	3,834.81	1	4,044.26	1	4,253.25	1		1		1		1		1	
1/4	3,419.37	1/4	3,629.28	1/4	3,839.19	1/4	4,048.61	1/4	4,257.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,423.74	1/2	3,633.65	1/2	3,843.56	1/2	4,052.97	1/2	4,261.96	1/2		1/2		1/2		1/2		1/2	
3/4	3,428.11	3/4	3,638.02	3/4	3,847.93	3/4	4,057.32	3/4	4,266.31	3/4		3/4		3/4		3/4		3/4	
2	3,432.49	2	3,642.40	2	3,852.31	2	4,061.68	2	4,270.66	2		2		2		2		2	
1/4	3,436.86	1/4	3,646.77	1/4	3,856.68	1/4	4,066.03	1/4	4,275.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,441.23	1/2	3,651.14	1/2	3,861.05	1/2	4,070.38	1/2	4,279.37	1/2		1/2		1/2		1/2		1/2	
3/4	3,445.61	3/4	3,655.52	3/4	3,865.42	3/4	4,074.74	3/4	4,283.73	3/4		3/4		3/4		3/4		3/4	
3	3,449.98	3	3,659.89	3	3,869.80	3	4,079.09	3	4,288.08	3		3		3		3		3	
1/4	3,454.35	1/4	3,664.26	1/4	3,874.17	1/4	4,083.45	1/4	4,292.41	1/4		1/4		1/4		1/4		1/4	
1/2	3,458.73	1/2	3,668.64	1/2	3,878.54	1/2	4,087.80	1/2	4,296.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,463.10	3/4	3,673.01	3/4	3,882.92	3/4	4,092.15	3/4	4,301.06	3/4		3/4		3/4		3/4		3/4	
4	3,467.47	4	3,677.38	4	3,887.29	4	4,096.51	4	4,305.38	4		4		4		4		4	
1/4	3,471.85	1/4	3,681.75	1/4	3,891.66	1/4	4,100.86	1/4	4,309.71	1/4		1/4		1/4		1/4		1/4	
1/2	3,476.22	1/2	3,686.13	1/2	3,896.04	1/2	4,105.22	1/2	4,314.04	1/2		1/2		1/2		1/2		1/2	
3/4	3,480.59	3/4	3,690.50	3/4	3,900.41	3/4	4,109.57	3/4	4,318.36	3/4		3/4		3/4		3/4		3/4	
5	3,484.97	5	3,694.87	5	3,904.78	5	4,113.92	5	4,322.69	5		5		5		5		5	
1/4	3,489.34	1/4	3,699.25	1/4	3,909.16	1/4	4,118.28	1/4	4,327.01	1/4		1/4		1/4		1/4		1/4	
1/2	3,493.71	1/2	3,703.62	1/2	3,913.53	1/2	4,122.63	1/2	4,331.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,498.08	3/4	3,707.99	3/4	3,917.90	3/4	4,126.99	3/4	4,335.66	3/4		3/4		3/4		3/4		3/4	
6	3,502.46	6	3,712.37	6	3,922.28	6	4,131.34	6	4,339.98	6		6		6		6		6	
1/4	3,506.83	1/4	3,716.74	1/4	3,926.65	1/4	4,135.69	1/4	4,344.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,511.20	1/2	3,721.11	1/2	3,931.02	1/2	4,140.05	1/2	4,348.61	1/2		1/2		1/2		1/2		1/2	
3/4	3,515.58	3/4	3,725.49	3/4	3,935.39	3/4	4,144.40	3/4	4,352.92	3/4		3/4		3/4		3/4		3/4	
7	3,519.95	7	3,729.86	7	3,939.77	7	4,148.75	7	4,357.23	7		7		7		7		7	
1/4	3,524.32	1/4	3,734.23	1/4	3,944.12	1/4	4,153.11	1/4	4,361.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,528.70	1/2	3,738.60	1/2	3,948.48	1/2	4,157.46	1/2	4,365.75	1/2		1/2		1/2		1/2		1/2	
3/4	3,533.07	3/4	3,742.98	3/4	3,952.83	3/4	4,161.82	3/4	4,370.00	3/4		3/4		3/4		3/4		3/4	
8	3,537.44	8	3,747.35	8	3,957.18	8	4,166.17	8	4,374.26	8		8		8		8		8	
1/4	3,541.82	1/4	3,751.72	1/4	3,961.54	1/4	4,170.52	1/4	4,377.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,546.19	1/2	3,756.10	1/2	3,965.89	1/2	4,174.88	1/2	4,381.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,550.56	3/4	3,760.47	3/4	3,970.24	3/4	4,179.23	3/4	4,384.57	3/4		3/4		3/4		3/4		3/4	
9	3,554.93	9	3,764.84	9	3,974.60	9	4,183.59	9	4,388.00	9		9		9		9		9	
1/4	3,559.31	1/4	3,769.22	1/4	3,978.95	1/4	4,187.94	1/4	4,390.25	1/4		1/4		1/4		1/4		1/4	
1/2	3,563.68	1/2	3,773.59	1/2	3,983.31	1/2	4,192.29	1/2	4,392.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,568.05	3/4	3,777.96	3/4	3,987.66	3/4	4,196.65	3/4	4,394.74	3/4		3/4		3/4		3/4		3/4	
10	3,572.43	10	3,782.34	10	3,992.01	10	4,201.00	10	4,396.99	10		10		10		10		10	
1/4	3,576.80	1/4	3,786.71	1/4	3,996.37	1/4	4,205.36	1/4	4,398.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,581.17	1/2	3,791.08	1/2	4,000.72	1/2	4,209.71	1/2	4,400.41	1/2		1/2		1/2		1/2		1/2	
3/4	3,585.55	3/4	3,795.46	3/4	4,005.08	3/4	4,214.06	3/4	4,402.11	3/4		3/4		3/4		3/4		3/4	
11	3,589.92	11	3,799.83	11	4,009.43	11	4,218.42	11	4,403.82	11		11		11		11		11	
1/4	3,594.29	1/4	3,804.20	1/4	4,013.78	1/4	4,222.77	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,598.67	1/2	3,808.57	1/2	4,018.14	1/2	4,227.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,603.04	3/4	3,812.95	3/4	4,022.49	3/4	4,231.48	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## ULLAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
1 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
2 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-1/8	06-1/8	- 08-1/8	08-1/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-0/8	- 08-0/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS 08-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-08 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

June 30, 2021

**PRECISION MEASUREMENT  
 & ANALYSIS, INC.**  
 P.O. Box 2092  
 Pearland, Texas 77588

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# BARGE "MPX 421"

## 1 PORT ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,040.88	0	4,755.43	0	4,413.69	0	4,071.11	0	3,727.80	0	3,384.56	0	3,041.35
1/4		1/4		1/4		1/4	5,038.87	1/4	4,748.31	1/4	4,406.57	1/4	4,063.96	1/4	3,720.64	1/4	3,377.41	1/4	3,034.20
1/2		1/2		1/2		1/2	5,036.87	1/2	4,741.19	1/2	4,399.45	1/2	4,056.80	1/2	3,713.49	1/2	3,370.26	1/2	3,027.05
3/4		3/4		3/4		3/4	5,034.86	3/4	4,734.07	3/4	4,392.33	3/4	4,049.65	3/4	3,706.34	3/4	3,363.11	3/4	3,019.90
1		1		1		1	5,032.85	1	4,726.95	1	4,385.21	1	4,042.50	1	3,699.19	1	3,355.96	1	3,012.75
1/4		1/4		1/4		1/4	5,029.65	1/4	4,719.83	1/4	4,378.09	1/4	4,035.35	1/4	3,692.04	1/4	3,348.81	1/4	3,005.59
1/2		1/2		1/2		1/2	5,026.45	1/2	4,712.72	1/2	4,370.97	1/2	4,028.19	1/2	3,684.88	1/2	3,341.66	1/2	2,998.44
3/4		3/4		3/4		3/4	5,023.25	3/4	4,705.60	3/4	4,363.85	3/4	4,021.04	3/4	3,677.73	3/4	3,334.51	3/4	2,991.29
2		2		2		2	5,020.05	2	4,698.48	2	4,356.74	2	4,013.89	2	3,670.58	2	3,327.36	2	2,984.14
1/4		1/4		1/4		1/4	5,015.66	1/4	4,691.36	1/4	4,349.62	1/4	4,006.74	1/4	3,663.43	1/4	3,320.21	1/4	2,976.99
1/2		1/2		1/2		1/2	5,011.26	1/2	4,684.24	1/2	4,342.50	1/2	3,999.58	1/2	3,656.27	1/2	3,313.06	1/2	2,969.84
3/4		3/4		3/4		3/4	5,006.87	3/4	4,677.12	3/4	4,335.38	3/4	3,992.43	3/4	3,649.12	3/4	3,305.91	3/4	2,962.68
3		3		3		3	5,002.48	3	4,670.00	3	4,328.26	3	3,985.28	3	3,641.97	3	3,298.76	3	2,955.53
1/4		1/4		1/4		1/4	4,996.90	1/4	4,662.88	1/4	4,321.14	1/4	3,978.13	1/4	3,634.82	1/4	3,291.61	1/4	2,948.38
1/2		1/2		1/2		1/2	4,991.31	1/2	4,655.76	1/2	4,314.02	1/2	3,970.98	1/2	3,627.67	1/2	3,284.46	1/2	2,941.23
3/4		3/4		3/4		3/4	4,985.73	3/4	4,648.64	3/4	4,306.90	3/4	3,963.82	3/4	3,620.52	3/4	3,277.31	3/4	2,934.07
4		4		4		4	4,980.14	4	4,641.52	4	4,299.78	4	3,956.67	4	3,613.37	4	3,270.16	4	2,926.92
1/4		1/4		1/4		1/4	4,973.55	1/4	4,634.40	1/4	4,292.66	1/4	3,949.52	1/4	3,606.22	1/4	3,263.01	1/4	2,919.77
1/2		1/2		1/2		1/2	4,966.96	1/2	4,627.28	1/2	4,285.54	1/2	3,942.37	1/2	3,599.07	1/2	3,255.86	1/2	2,912.62
3/4		3/4		3/4		3/4	4,960.36	3/4	4,620.16	3/4	4,278.42	3/4	3,935.21	3/4	3,591.92	3/4	3,248.71	3/4	2,905.47
5		5		5		5	4,953.77	5	4,613.04	5	4,271.30	5	3,928.06	5	3,584.77	5	3,241.56	5	2,898.31
1/4		1/4		1/4		1/4	4,946.74	1/4	4,605.92	1/4	4,264.17	1/4	3,920.91	1/4	3,577.62	1/4	3,234.41	1/4	2,891.16
1/2		1/2		1/2		1/2	4,939.70	1/2	4,598.80	1/2	4,257.03	1/2	3,913.76	1/2	3,570.47	1/2	3,227.26	1/2	2,884.01
3/4		3/4		3/4		3/4	4,932.67	3/4	4,591.68	3/4	4,249.90	3/4	3,906.60	3/4	3,563.32	3/4	3,220.10	3/4	2,876.86
6		6		6		6	4,925.64	6	4,584.56	6	4,242.76	6	3,899.45	6	3,556.17	6	3,212.95	6	2,869.70
1/4		1/4		1/4		1/4	4,918.57	1/4	4,577.44	1/4	4,235.61	1/4	3,892.30	1/4	3,549.02	1/4	3,205.80	1/4	2,862.55
1/2		1/2		1/2		1/2	4,911.50	1/2	4,570.32	1/2	4,228.46	1/2	3,885.15	1/2	3,541.87	1/2	3,198.65	1/2	2,855.40
3/4		3/4		3/4		3/4	4,904.44	3/4	4,563.20	3/4	4,221.31	3/4	3,878.00	3/4	3,534.72	3/4	3,191.50	3/4	2,848.25
7		7		7		7	4,897.37	7	4,556.08	7	4,214.15	7	3,870.84	7	3,527.57	7	3,184.35	7	2,841.10
1/4		1/4		1/4		1/4	4,890.29	1/4	4,548.96	1/4	4,207.00	1/4	3,863.69	1/4	3,520.42	1/4	3,177.20	1/4	2,833.94
1/2		1/2		1/2		1/2	4,883.22	1/2	4,541.84	1/2	4,199.85	1/2	3,856.54	1/2	3,513.27	1/2	3,170.05	1/2	2,826.79
3/4		3/4		3/4		3/4	4,876.15	3/4	4,534.73	3/4	4,192.70	3/4	3,849.39	3/4	3,506.12	3/4	3,162.90	3/4	2,819.64
8		8		8		8	4,869.07	8	4,527.61	8	4,185.54	8	3,842.23	8	3,498.97	8	3,155.75	8	2,812.49
1/4		1/4		1/4		1/4	4,862.00	1/4	4,520.49	1/4	4,178.39	1/4	3,835.08	1/4	3,491.82	1/4	3,148.60	1/4	2,805.34
1/2		1/2		1/2		1/2	4,854.92	1/2	4,513.37	1/2	4,171.24	1/2	3,827.93	1/2	3,484.67	1/2	3,141.45	1/2	2,798.18
3/4		3/4		3/4		3/4	4,847.85	3/4	4,506.25	3/4	4,164.09	3/4	3,820.78	3/4	3,477.52	3/4	3,134.30	3/4	2,791.03
9		9		9		9	4,840.77	9	4,499.13	9	4,156.94	9	3,813.62	9	3,470.37	9	3,127.15	9	2,783.88
1/4		1/4		1/4		1/4	4,833.68	1/4	4,492.01	1/4	4,149.78	1/4	3,806.47	1/4	3,463.21	1/4	3,120.00	1/4	2,776.73
1/2		1/2		1/2		1/2	4,826.58	1/2	4,484.89	1/2	4,142.63	1/2	3,799.32	1/2	3,456.06	1/2	3,112.85	1/2	2,769.57
3/4		3/4		3/4		3/4	4,819.49	3/4	4,477.77	3/4	4,135.48	3/4	3,792.17	3/4	3,448.91	3/4	3,105.70	3/4	2,762.42
10		10		10		10	4,812.39	10	4,470.65	10	4,128.33	10	3,785.02	10	3,441.76	10	3,098.55	10	2,755.27
1/4		1/4		1/4		1/4	4,805.27	1/4	4,463.53	1/4	4,121.17	1/4	3,777.86	1/4	3,434.61	1/4	3,091.40	1/4	2,748.12
1/2		1/2		1/2		1/2	4,798.15	1/2	4,456.41	1/2	4,114.02	1/2	3,770.71	1/2	3,427.46	1/2	3,084.25	1/2	2,740.97
3/4		3/4		3/4		3/4	4,791.03	3/4	4,449.29	3/4	4,106.87	3/4	3,763.56	3/4	3,420.31	3/4	3,077.10	3/4	2,733.81
11		11		11	5,044.60	11	4,783.91	11	4,442.17	11	4,099.72	11	3,756.41	11	3,413.16	11	3,069.95	11	2,726.66
1/4		1/4		1/4	5,043.67	1/4	4,776.79	1/4	4,435.05	1/4	4,092.56	1/4	3,749.25	1/4	3,406.01	1/4	3,062.80	1/4	2,719.51
1/2		1/2		1/2	5,042.74	1/2	4,769.67	1/2	4,427.93	1/2	4,085.41	1/2	3,742.10	1/2	3,398.86	1/2	3,055.65	1/2	2,712.36
3/4		3/4		3/4	5,041.81	3/4	4,762.55	3/4	4,420.81	3/4	4,078.26	3/4	3,734.95	3/4	3,391.71	3/4	3,048.50	3/4	2,705.20

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "MPX 421"

**1 PORT**  
**ULLAGE TABLE**  
**10" HATCH**  
**GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,698.05	0	2,354.74	0	2,011.41	0	1,668.08	0	1,324.75	0	982.13	0	640.73	0	304.56	0	20.52	0	
1/4	2,690.90	1/4	2,347.59	1/4	2,004.26	1/4	1,660.93	1/4	1,317.60	1/4	975.04	1/4	633.58	1/4	297.99	1/4	17.72	1/4	
1/2	2,683.75	1/2	2,340.43	1/2	1,997.10	1/2	1,653.77	1/2	1,310.44	1/2	967.94	1/2	626.43	1/2	291.42	1/2	14.91	1/2	
3/4	2,676.60	3/4	2,333.28	3/4	1,989.95	3/4	1,646.62	3/4	1,303.29	3/4	960.85	3/4	619.27	3/4	284.85	3/4	12.11	3/4	
1	2,669.44	1	2,326.13	1	1,982.80	1	1,639.47	1	1,296.14	1	953.76	1	612.12	1	278.29	1	9.31	1	
1/4	2,662.29	1/4	2,318.97	1/4	1,975.65	1/4	1,632.32	1/4	1,288.99	1/4	946.67	1/4	604.97	1/4	271.80	1/4	7.52	1/4	
1/2	2,655.14	1/2	2,311.82	1/2	1,968.49	1/2	1,625.16	1/2	1,281.83	1/2	939.58	1/2	597.82	1/2	265.32	1/2	5.73	1/2	
3/4	2,647.99	3/4	2,304.67	3/4	1,961.34	3/4	1,618.01	3/4	1,274.68	3/4	932.48	3/4	590.66	3/4	258.83	3/4	3.94	3/4	
2	2,640.83	2	2,297.52	2	1,954.19	2	1,610.86	2	1,267.53	2	925.39	2	583.51	2	252.35	2	2.16	2	
1/4	2,633.68	1/4	2,290.36	1/4	1,947.03	1/4	1,603.70	1/4	1,260.38	1/4	918.30	1/4	576.36	1/4	245.95	1/4		1/4	
1/2	2,626.54	1/2	2,283.21	1/2	1,939.88	1/2	1,596.55	1/2	1,253.22	1/2	911.21	1/2	569.21	1/2	239.55	1/2		1/2	
3/4	2,619.39	3/4	2,276.06	3/4	1,932.73	3/4	1,589.40	3/4	1,246.07	3/4	904.12	3/4	562.05	3/4	233.15	3/4		3/4	
3	2,612.24	3	2,268.91	3	1,925.58	3	1,582.25	3	1,238.92	3	897.02	3	554.90	3	226.75	3		3	
1/4	2,605.08	1/4	2,261.75	1/4	1,918.42	1/4	1,575.09	1/4	1,231.76	1/4	889.93	1/4	547.75	1/4	220.43	1/4		1/4	
1/2	2,597.93	1/2	2,254.60	1/2	1,911.27	1/2	1,567.94	1/2	1,224.61	1/2	882.84	1/2	540.60	1/2	214.12	1/2		1/2	
3/4	2,590.78	3/4	2,247.45	3/4	1,904.12	3/4	1,560.79	3/4	1,217.46	3/4	875.75	3/4	533.44	3/4	207.80	3/4		3/4	
4	2,583.62	4	2,240.30	4	1,896.97	4	1,553.64	4	1,210.31	4	868.66	4	526.29	4	201.48	4		4	
1/4	2,576.47	1/4	2,233.14	1/4	1,889.81	1/4	1,546.48	1/4	1,203.15	1/4	861.56	1/4	519.14	1/4	195.25	1/4		1/4	
1/2	2,569.32	1/2	2,225.99	1/2	1,882.66	1/2	1,539.33	1/2	1,196.00	1/2	854.47	1/2	511.99	1/2	189.02	1/2		1/2	
3/4	2,562.17	3/4	2,218.84	3/4	1,875.51	3/4	1,532.18	3/4	1,188.85	3/4	847.38	3/4	504.83	3/4	182.78	3/4		3/4	
5	2,555.01	5	2,211.68	5	1,868.35	5	1,525.03	5	1,181.70	5	840.29	5	497.68	5	176.55	5		5	
1/4	2,547.86	1/4	2,204.53	1/4	1,861.20	1/4	1,517.87	1/4	1,174.54	1/4	833.20	1/4	490.55	1/4	170.40	1/4		1/4	
1/2	2,540.71	1/2	2,197.38	1/2	1,854.05	1/2	1,510.72	1/2	1,167.39	1/2	826.10	1/2	483.42	1/2	164.25	1/2		1/2	
3/4	2,533.56	3/4	2,190.23	3/4	1,846.90	3/4	1,503.57	3/4	1,160.24	3/4	819.01	3/4	476.29	3/4	158.10	3/4		3/4	
6	2,526.40	6	2,183.07	6	1,839.74	6	1,496.41	6	1,153.08	6	811.92	6	469.16	6	151.95	6		6	
1/4	2,519.25	1/4	2,175.92	1/4	1,832.59	1/4	1,489.26	1/4	1,145.93	1/4	804.82	1/4	462.10	1/4	145.88	1/4		1/4	
1/2	2,512.10	1/2	2,168.77	1/2	1,825.44	1/2	1,482.11	1/2	1,138.78	1/2	797.73	1/2	455.04	1/2	139.82	1/2		1/2	
3/4	2,504.95	3/4	2,161.62	3/4	1,818.29	3/4	1,474.96	3/4	1,131.63	3/4	790.63	3/4	447.97	3/4	133.75	3/4		3/4	
7	2,497.79	7	2,154.46	7	1,811.13	7	1,467.80	7	1,124.47	7	783.54	7	440.91	7	127.69	7		7	
1/4	2,490.64	1/4	2,147.31	1/4	1,803.98	1/4	1,460.65	1/4	1,117.32	1/4	776.43	1/4	433.93	1/4	121.71	1/4		1/4	
1/2	2,483.49	1/2	2,140.16	1/2	1,796.83	1/2	1,453.50	1/2	1,110.17	1/2	769.32	1/2	426.94	1/2	115.72	1/2		1/2	
3/4	2,476.33	3/4	2,133.00	3/4	1,789.68	3/4	1,446.35	3/4	1,103.02	3/4	762.21	3/4	419.96	3/4	109.74	3/4		3/4	
8	2,469.18	8	2,125.85	8	1,782.52	8	1,439.19	8	1,095.86	8	755.10	8	412.98	8	103.76	8		8	
1/4	2,462.03	1/4	2,118.70	1/4	1,775.37	1/4	1,432.04	1/4	1,088.73	1/4	747.96	1/4	406.08	1/4	97.87	1/4		1/4	
1/2	2,454.88	1/2	2,111.55	1/2	1,768.22	1/2	1,424.89	1/2	1,081.59	1/2	740.83	1/2	399.17	1/2	91.97	1/2		1/2	
3/4	2,447.72	3/4	2,104.39	3/4	1,761.06	3/4	1,417.73	3/4	1,074.46	3/4	733.69	3/4	392.27	3/4	86.08	3/4		3/4	
9	2,440.57	9	2,097.24	9	1,753.91	9	1,410.58	9	1,067.32	9	726.56	9	385.37	9	80.19	9		9	
1/4	2,433.42	1/4	2,090.09	1/4	1,746.76	1/4	1,403.43	1/4	1,060.21	1/4	719.41	1/4	378.55	1/4	74.40	1/4		1/4	
1/2	2,426.27	1/2	2,082.94	1/2	1,739.61	1/2	1,396.28	1/2	1,053.10	1/2	712.26	1/2	371.73	1/2	68.60	1/2		1/2	
3/4	2,419.11	3/4	2,075.78	3/4	1,732.45	3/4	1,389.12	3/4	1,045.99	3/4	705.10	3/4	364.92	3/4	62.81	3/4		3/4	
10	2,411.96	10	2,068.63	10	1,725.30	10	1,381.97	10	1,038.88	10	697.95	10	358.10	10	57.02	10		10	
1/4	2,404.81	1/4	2,061.48	1/4	1,718.15	1/4	1,374.82	1/4	1,031.79	1/4	690.80	1/4	351.36	1/4	51.75	1/4		1/4	
1/2	2,397.65	1/2	2,054.33	1/2	1,711.00	1/2	1,367.67	1/2	1,024.69	1/2	683.65	1/2	344.63	1/2	46.49	1/2		1/2	
3/4	2,390.50	3/4	2,047.17	3/4	1,703.84	3/4	1,360.51	3/4	1,017.59	3/4	676.49	3/4	337.89	3/4	41.22	3/4		3/4	
11	2,383.35	11	2,040.02	11	1,696.69	11	1,353.36	11	1,010.50	11	669.34	11	331.16	11	35.96	11		11	
1/4	2,376.20	1/4	2,032.87	1/4	1,689.54	1/4	1,346.21	1/4	1,003.41	1/4	662.19	1/4	324.51	1/4	32.10	1/4		1/4	
1/2	2,369.04	1/2	2,025.71	1/2	1,682.38	1/2	1,339.05	1/2	996.31	1/2	655.04	1/2	317.86	1/2	28.24	1/2		1/2	
3/4	2,361.89	3/4	2,018.56	3/4	1,675.23	3/4	1,331.90	3/4	989.22	3/4	647.88	3/4	311.21	3/4	24.38	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 1 STBD ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,033.14	0	4,743.05	0	4,401.86	0	4,059.79	0	3,717.03	0	3,374.34	0	3,031.68
1/4		1/4		1/4		1/4	5,031.14	1/4	4,735.94	1/4	4,394.75	1/4	4,052.65	1/4	3,709.89	1/4	3,367.20	1/4	3,024.54
1/2		1/2		1/2		1/2	5,029.13	1/2	4,728.84	1/2	4,387.64	1/2	4,045.51	1/2	3,702.74	1/2	3,360.06	1/2	3,017.40
3/4		3/4		3/4		3/4	5,027.13	3/4	4,721.73	3/4	4,380.53	3/4	4,038.37	3/4	3,695.60	3/4	3,352.93	3/4	3,010.26
1		1		1		1	5,023.93	1	4,714.62	1	4,373.43	1	4,031.23	1	3,688.46	1	3,345.79	1	3,003.12
1/4		1/4		1/4		1/4	5,020.74	1/4	4,707.51	1/4	4,366.32	1/4	4,024.09	1/4	3,681.32	1/4	3,338.65	1/4	2,995.98
1/2		1/2		1/2		1/2	5,017.54	1/2	4,700.40	1/2	4,359.21	1/2	4,016.94	1/2	3,674.18	1/2	3,331.51	1/2	2,988.84
3/4		3/4		3/4		3/4	5,014.35	3/4	4,693.29	3/4	4,352.10	3/4	4,009.80	3/4	3,667.04	3/4	3,324.37	3/4	2,981.69
2		2		2		2	5,009.96	2	4,686.19	2	4,344.99	2	4,002.66	2	3,659.90	2	3,317.23	2	2,974.55
1/4		1/4		1/4		1/4	5,005.58	1/4	4,679.08	1/4	4,337.88	1/4	3,995.52	1/4	3,652.76	1/4	3,310.09	1/4	2,967.41
1/2		1/2		1/2		1/2	5,001.19	1/2	4,671.97	1/2	4,330.78	1/2	3,988.38	1/2	3,645.62	1/2	3,302.95	1/2	2,960.27
3/4		3/4		3/4		3/4	4,996.81	3/4	4,664.86	3/4	4,323.67	3/4	3,981.24	3/4	3,638.48	3/4	3,295.81	3/4	2,953.13
3		3		3		3	4,991.23	3	4,657.75	3	4,316.56	3	3,974.10	3	3,631.34	3	3,288.68	3	2,945.99
1/4		1/4		1/4		1/4	4,985.66	1/4	4,650.64	1/4	4,309.45	1/4	3,966.96	1/4	3,624.20	1/4	3,281.54	1/4	2,938.85
1/2		1/2		1/2		1/2	4,980.08	1/2	4,643.54	1/2	4,302.34	1/2	3,959.82	1/2	3,617.06	1/2	3,274.40	1/2	2,931.71
3/4		3/4		3/4		3/4	4,974.50	3/4	4,636.43	3/4	4,295.23	3/4	3,952.68	3/4	3,609.93	3/4	3,267.26	3/4	2,924.57
4		4		4		4	4,967.92	4	4,629.32	4	4,288.13	4	3,945.54	4	3,602.79	4	3,260.12	4	2,917.43
1/4		1/4		1/4		1/4	4,961.34	1/4	4,622.21	1/4	4,281.02	1/4	3,938.39	1/4	3,595.65	1/4	3,252.98	1/4	2,910.29
1/2		1/2		1/2		1/2	4,954.76	1/2	4,615.10	1/2	4,273.91	1/2	3,931.25	1/2	3,588.51	1/2	3,245.84	1/2	2,903.15
3/4		3/4		3/4		3/4	4,948.17	3/4	4,608.00	3/4	4,266.80	3/4	3,924.11	3/4	3,581.37	3/4	3,238.70	3/4	2,896.01
5		5		5		5	4,941.15	5	4,600.89	5	4,259.68	5	3,916.97	5	3,574.23	5	3,231.56	5	2,888.87
1/4		1/4		1/4		1/4	4,934.13	1/4	4,593.78	1/4	4,252.56	1/4	3,909.83	1/4	3,567.09	1/4	3,224.43	1/4	2,881.73
1/2		1/2		1/2		1/2	4,927.11	1/2	4,586.67	1/2	4,245.43	1/2	3,902.69	1/2	3,559.95	1/2	3,217.29	1/2	2,874.58
3/4		3/4		3/4		3/4	4,920.09	3/4	4,579.56	3/4	4,238.31	3/4	3,895.55	3/4	3,552.81	3/4	3,210.15	3/4	2,867.44
6		6		6		6	4,913.03	6	4,572.45	6	4,231.17	6	3,888.41	6	3,545.68	6	3,203.01	6	2,860.30
1/4		1/4		1/4		1/4	4,905.98	1/4	4,565.35	1/4	4,224.03	1/4	3,881.27	1/4	3,538.54	1/4	3,195.87	1/4	2,853.16
1/2		1/2		1/2		1/2	4,898.92	1/2	4,558.24	1/2	4,216.89	1/2	3,874.13	1/2	3,531.40	1/2	3,188.73	1/2	2,846.02
3/4		3/4		3/4		3/4	4,891.87	3/4	4,551.13	3/4	4,209.75	3/4	3,866.99	3/4	3,524.26	3/4	3,181.59	3/4	2,838.88
7		7		7		7	4,884.80	7	4,544.02	7	4,202.61	7	3,859.84	7	3,517.12	7	3,174.45	7	2,831.74
1/4		1/4		1/4		1/4	4,877.74	1/4	4,536.91	1/4	4,195.47	1/4	3,852.70	1/4	3,509.98	1/4	3,167.31	1/4	2,824.60
1/2		1/2		1/2		1/2	4,870.68	1/2	4,529.81	1/2	4,188.33	1/2	3,845.56	1/2	3,502.84	1/2	3,160.18	1/2	2,817.46
3/4		3/4		3/4		3/4	4,863.62	3/4	4,522.70	3/4	4,181.19	3/4	3,838.42	3/4	3,495.70	3/4	3,153.04	3/4	2,810.32
8		8		8		8	4,856.55	8	4,515.59	8	4,174.04	8	3,831.28	8	3,488.56	8	3,145.90	8	2,803.18
1/4		1/4		1/4		1/4	4,849.49	1/4	4,508.48	1/4	4,166.90	1/4	3,824.14	1/4	3,481.43	1/4	3,138.76	1/4	2,796.04
1/2		1/2		1/2		1/2	4,842.43	1/2	4,501.37	1/2	4,159.76	1/2	3,817.00	1/2	3,474.29	1/2	3,131.62	1/2	2,788.90
3/4		3/4		3/4		3/4	4,835.36	3/4	4,494.26	3/4	4,152.62	3/4	3,809.86	3/4	3,467.15	3/4	3,124.48	3/4	2,781.76
9		9		9		9	4,828.28	9	4,487.16	9	4,145.48	9	3,802.72	9	3,460.01	9	3,117.34	9	2,774.61
1/4		1/4		1/4		1/4	4,821.19	1/4	4,480.05	1/4	4,138.34	1/4	3,795.58	1/4	3,452.87	1/4	3,110.20	1/4	2,767.47
1/2		1/2		1/2		1/2	4,814.11	1/2	4,472.94	1/2	4,131.20	1/2	3,788.44	1/2	3,445.73	1/2	3,103.06	1/2	2,760.33
3/4		3/4		3/4		3/4	4,807.03	3/4	4,465.83	3/4	4,124.06	3/4	3,781.29	3/4	3,438.59	3/4	3,095.93	3/4	2,753.19
10		10		10		10	4,799.92	10	4,458.72	10	4,116.92	10	3,774.15	10	3,431.45	10	3,088.79	10	2,746.05
1/4		1/4		1/4		1/4	4,792.81	1/4	4,451.62	1/4	4,109.78	1/4	3,767.01	1/4	3,424.31	1/4	3,081.65	1/4	2,738.91
1/2		1/2		1/2		1/2	4,785.70	1/2	4,444.51	1/2	4,102.64	1/2	3,759.87	1/2	3,417.18	1/2	3,074.51	1/2	2,731.77
3/4		3/4		3/4		3/4	5,038.86	3/4	4,778.59	3/4	4,437.40	3/4	4,095.49	3/4	3,752.73	3/4	3,410.04	3/4	3,067.37
11		11		11		11	5,037.93	11	4,771.48	11	4,430.29	11	4,088.35	11	3,745.59	11	3,402.90	11	3,060.23
1/4		1/4		1/4		1/4	5,037.00	1/4	4,764.38	1/4	4,423.18	1/4	4,081.21	1/4	3,738.45	1/4	3,395.76	1/4	3,053.09
1/2		1/2		1/2		1/2	5,036.08	1/2	4,757.27	1/2	4,416.07	1/2	4,074.07	1/2	3,731.31	1/2	3,388.62	1/2	3,045.95
3/4		3/4		3/4		3/4	5,035.15	3/4	4,750.16	3/4	4,408.97	3/4	4,066.93	3/4	3,724.17	3/4	3,381.48	3/4	3,038.81

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "MPX 421"

1 STBD

ULLAGE TABLE

10" HATCH

GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,688.93	0	2,346.15	0	2,003.37	0	1,660.59	0	1,317.81	0	975.10	0	632.56	0	297.47	0	17.69	0	
1/4	2,681.79	1/4	2,339.01	1/4	1,996.23	1/4	1,653.45	1/4	1,310.67	1/4	967.97	1/4	625.41	1/4	290.91	1/4	14.89	1/4	
1/2	2,674.64	1/2	2,331.87	1/2	1,989.09	1/2	1,646.31	1/2	1,303.53	1/2	960.84	1/2	618.27	1/2	284.36	1/2	12.09	1/2	
3/4	2,667.50	3/4	2,324.72	3/4	1,981.95	3/4	1,639.17	3/4	1,296.39	3/4	953.70	3/4	611.13	3/4	277.80	3/4	9.29	3/4	
1	2,660.36	1	2,317.58	1	1,974.81	1	1,632.03	1	1,289.25	1	946.57	1	603.99	1	271.33	1	7.51	1	
1/4	2,653.22	1/4	2,310.44	1/4	1,967.66	1/4	1,624.89	1/4	1,282.11	1/4	939.44	1/4	596.85	1/4	264.85	1/4	5.72	1/4	
1/2	2,646.08	1/2	2,303.30	1/2	1,960.52	1/2	1,617.75	1/2	1,274.97	1/2	932.31	1/2	589.71	1/2	258.38	1/2	3.94	1/2	
3/4	2,638.94	3/4	2,296.16	3/4	1,953.38	3/4	1,610.60	3/4	1,267.83	3/4	925.17	3/4	582.57	3/4	251.91	3/4	2.15	3/4	
2	2,631.80	2	2,289.02	2	1,946.24	2	1,603.46	2	1,260.69	2	918.04	2	575.43	2	245.52	2		2	
1/4	2,624.66	1/4	2,281.88	1/4	1,939.10	1/4	1,596.32	1/4	1,253.54	1/4	910.91	1/4	568.29	1/4	239.13	1/4		1/4	
1/2	2,617.51	1/2	2,274.74	1/2	1,931.96	1/2	1,589.18	1/2	1,246.40	1/2	903.78	1/2	561.14	1/2	232.74	1/2		1/2	
3/4	2,610.37	3/4	2,267.59	3/4	1,924.82	3/4	1,582.04	3/4	1,239.26	3/4	896.64	3/4	554.00	3/4	226.35	3/4		3/4	
3	2,603.23	3	2,260.45	3	1,917.68	3	1,574.90	3	1,232.12	3	889.51	3	546.86	3	220.04	3		3	
1/4	2,596.09	1/4	2,253.31	1/4	1,910.53	1/4	1,567.76	1/4	1,224.98	1/4	882.38	1/4	539.72	1/4	213.74	1/4		1/4	
1/2	2,588.95	1/2	2,246.17	1/2	1,903.39	1/2	1,560.62	1/2	1,217.84	1/2	875.25	1/2	532.58	1/2	207.43	1/2		1/2	
3/4	2,581.81	3/4	2,239.03	3/4	1,896.25	3/4	1,553.47	3/4	1,210.70	3/4	868.12	3/4	525.44	3/4	201.13	3/4		3/4	
4	2,574.67	4	2,231.89	4	1,889.11	4	1,546.33	4	1,203.56	4	860.98	4	518.30	4	194.90	4		4	
1/4	2,567.52	1/4	2,224.75	1/4	1,881.97	1/4	1,539.19	1/4	1,196.41	1/4	853.85	1/4	511.16	1/4	188.68	1/4		1/4	
1/2	2,560.38	1/2	2,217.61	1/2	1,874.83	1/2	1,532.05	1/2	1,189.27	1/2	846.72	1/2	504.02	1/2	182.46	1/2		1/2	
3/4	2,553.24	3/4	2,210.46	3/4	1,867.69	3/4	1,524.91	3/4	1,182.13	3/4	839.59	3/4	496.87	3/4	176.24	3/4		3/4	
5	2,546.10	5	2,203.32	5	1,860.55	5	1,517.77	5	1,174.99	5	832.46	5	489.75	5	170.10	5		5	
1/4	2,538.96	1/4	2,196.18	1/4	1,853.40	1/4	1,510.63	1/4	1,167.85	1/4	825.32	1/4	482.63	1/4	163.96	1/4		1/4	
1/2	2,531.82	1/2	2,189.04	1/2	1,846.26	1/2	1,503.49	1/2	1,160.71	1/2	818.19	1/2	475.51	1/2	157.82	1/2		1/2	
3/4	2,524.68	3/4	2,181.90	3/4	1,839.12	3/4	1,496.34	3/4	1,153.57	3/4	811.06	3/4	468.39	3/4	151.68	3/4		3/4	
6	2,517.54	6	2,174.76	6	1,831.98	6	1,489.20	6	1,146.43	6	803.92	6	461.34	6	145.62	6		6	
1/4	2,510.40	1/4	2,167.62	1/4	1,824.84	1/4	1,482.06	1/4	1,139.28	1/4	796.79	1/4	454.28	1/4	139.57	1/4		1/4	
1/2	2,503.25	1/2	2,160.48	1/2	1,817.70	1/2	1,474.92	1/2	1,132.14	1/2	789.65	1/2	447.22	1/2	133.51	1/2		1/2	
3/4	2,496.11	3/4	2,153.34	3/4	1,810.56	3/4	1,467.78	3/4	1,125.00	3/4	782.51	3/4	440.16	3/4	127.46	3/4		3/4	
7	2,488.97	7	2,146.19	7	1,803.42	7	1,460.64	7	1,117.86	7	775.37	7	433.19	7	121.49	7		7	
1/4	2,481.83	1/4	2,139.05	1/4	1,796.28	1/4	1,453.50	1/4	1,110.72	1/4	768.23	1/4	426.22	1/4	115.52	1/4		1/4	
1/2	2,474.69	1/2	2,131.91	1/2	1,789.13	1/2	1,446.36	1/2	1,103.58	1/2	761.09	1/2	419.24	1/2	109.54	1/2		1/2	
3/4	2,467.55	3/4	2,124.77	3/4	1,781.99	3/4	1,439.22	3/4	1,096.44	3/4	753.95	3/4	412.27	3/4	103.57	3/4		3/4	
8	2,460.41	8	2,117.63	8	1,774.85	8	1,432.07	8	1,089.30	8	746.81	8	405.38	8	97.69	8		8	
1/4	2,453.27	1/4	2,110.49	1/4	1,767.71	1/4	1,424.93	1/4	1,082.16	1/4	739.67	1/4	398.49	1/4	91.81	1/4		1/4	
1/2	2,446.12	1/2	2,103.35	1/2	1,760.57	1/2	1,417.79	1/2	1,075.01	1/2	732.53	1/2	391.60	1/2	85.93	1/2		1/2	
3/4	2,438.98	3/4	2,096.21	3/4	1,753.43	3/4	1,410.65	3/4	1,067.87	3/4	725.39	3/4	384.71	3/4	80.04	3/4		3/4	
9	2,431.84	9	2,089.06	9	1,746.29	9	1,403.51	9	1,060.73	9	718.25	9	377.90	9	74.26	9		9	
1/4	2,424.70	1/4	2,081.92	1/4	1,739.15	1/4	1,396.37	1/4	1,053.59	1/4	711.11	1/4	371.09	1/4	68.48	1/4		1/4	
1/2	2,417.56	1/2	2,074.78	1/2	1,732.00	1/2	1,389.23	1/2	1,046.45	1/2	703.97	1/2	364.29	1/2	62.70	1/2		1/2	
3/4	2,410.42	3/4	2,067.64	3/4	1,724.86	3/4	1,382.09	3/4	1,039.31	3/4	696.83	3/4	357.48	3/4	56.92	3/4		3/4	
10	2,403.28	10	2,060.50	10	1,717.72	10	1,374.94	10	1,032.17	10	689.68	10	350.76	10	51.66	10		10	
1/4	2,396.14	1/4	2,053.36	1/4	1,710.58	1/4	1,367.80	1/4	1,025.04	1/4	682.54	1/4	344.03	1/4	46.40	1/4		1/4	
1/2	2,388.99	1/2	2,046.22	1/2	1,703.44	1/2	1,360.66	1/2	1,017.90	1/2	675.40	1/2	337.31	1/2	41.15	1/2		1/2	
3/4	2,381.85	3/4	2,039.08	3/4	1,696.30	3/4	1,353.52	3/4	1,010.76	3/4	668.26	3/4	330.58	3/4	35.89	3/4		3/4	
11	2,374.71	11	2,031.93	11	1,689.16	11	1,346.38	11	1,003.63	11	661.12	11	323.94	11	32.04	11		11	
1/4	2,367.57	1/4	2,024.79	1/4	1,682.02	1/4	1,339.24	1/4	996.50	1/4	653.98	1/4	317.30	1/4	28.19	1/4		1/4	
1/2	2,360.43	1/2	2,017.65	1/2	1,674.87	1/2	1,332.10	1/2	989.37	1/2	646.84	1/2	310.66	1/2	24.34	1/2		1/2	
3/4	2,353.29	3/4	2,010.51	3/4	1,667.73	3/4	1,324.96	3/4	982.23	3/4	639.70	3/4	304.02	3/4	20.48	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
 CALCULATED: 07/01/2021 CL  
 PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
 ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 2 PORT ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,089.30	0	4,810.16	0	4,468.55	0	4,126.12	0	3,782.94	0	3,439.75	0	3,096.57
1/4		1/4		1/4		1/4	5,088.38	1/4	4,803.05	1/4	4,461.43	1/4	4,118.97	1/4	3,775.79	1/4	3,432.60	1/4	3,089.42
1/2		1/2		1/2		1/2	5,086.37	1/2	4,795.93	1/2	4,454.31	1/2	4,111.82	1/2	3,768.64	1/2	3,425.46	1/2	3,082.27
3/4		3/4		3/4		3/4	5,084.36	3/4	4,788.81	3/4	4,447.20	3/4	4,104.67	3/4	3,761.49	3/4	3,418.31	3/4	3,075.12
1		1		1		1	5,082.36	1	4,781.70	1	4,440.08	1	4,097.52	1	3,754.34	1	3,411.16	1	3,067.98
1/4		1/4		1/4		1/4	5,080.35	1/4	4,774.58	1/4	4,432.96	1/4	4,090.37	1/4	3,747.19	1/4	3,404.01	1/4	3,060.83
1/2		1/2		1/2		1/2	5,077.15	1/2	4,767.46	1/2	4,425.84	1/2	4,083.22	1/2	3,740.04	1/2	3,396.86	1/2	3,053.68
3/4		3/4		3/4		3/4	5,073.95	3/4	4,760.34	3/4	4,418.73	3/4	4,076.07	3/4	3,732.89	3/4	3,389.71	3/4	3,046.54
2		2		2		2	5,070.75	2	4,753.23	2	4,411.61	2	4,068.92	2	3,725.74	2	3,382.56	2	3,039.39
1/4		1/4		1/4		1/4	5,067.56	1/4	4,746.11	1/4	4,404.49	1/4	4,061.77	1/4	3,718.59	1/4	3,375.41	1/4	3,032.25
1/2		1/2		1/2		1/2	5,063.17	1/2	4,738.99	1/2	4,397.38	1/2	4,054.62	1/2	3,711.44	1/2	3,368.26	1/2	3,025.10
3/4		3/4		3/4		3/4	5,058.78	3/4	4,731.88	3/4	4,390.26	3/4	4,047.47	3/4	3,704.29	3/4	3,361.11	3/4	3,017.95
3		3		3		3	5,054.39	3	4,724.76	3	4,383.14	3	4,040.32	3	3,697.14	3	3,353.96	3	3,010.79
1/4		1/4		1/4		1/4	5,050.00	1/4	4,717.64	1/4	4,376.03	1/4	4,033.17	1/4	3,689.99	1/4	3,346.81	1/4	3,003.64
1/2		1/2		1/2		1/2	5,044.41	1/2	4,710.53	1/2	4,368.91	1/2	4,026.02	1/2	3,682.84	1/2	3,339.66	1/2	2,996.49
3/4		3/4		3/4		3/4	5,038.83	3/4	4,703.41	3/4	4,361.79	3/4	4,018.87	3/4	3,675.69	3/4	3,332.51	3/4	2,989.34
4		4		4		4	5,033.25	4	4,696.29	4	4,354.67	4	4,011.72	4	3,668.54	4	3,325.36	4	2,982.19
1/4		1/4		1/4		1/4	5,027.67	1/4	4,689.17	1/4	4,347.56	1/4	4,004.57	1/4	3,661.39	1/4	3,318.21	1/4	2,975.04
1/2		1/2		1/2		1/2	5,021.08	1/2	4,682.06	1/2	4,340.44	1/2	3,997.42	1/2	3,654.24	1/2	3,311.06	1/2	2,967.88
3/4		3/4		3/4		3/4	5,014.49	3/4	4,674.94	3/4	4,333.32	3/4	3,990.27	3/4	3,647.09	3/4	3,303.91	3/4	2,960.73
5		5		5		5	5,007.89	5	4,667.82	5	4,326.21	5	3,983.12	5	3,639.94	5	3,296.76	5	2,953.58
1/4		1/4		1/4		1/4	5,001.30	1/4	4,660.71	1/4	4,319.09	1/4	3,975.97	1/4	3,632.79	1/4	3,289.61	1/4	2,946.43
1/2		1/2		1/2		1/2	4,994.27	1/2	4,653.59	1/2	4,311.96	1/2	3,968.82	1/2	3,625.64	1/2	3,282.46	1/2	2,939.28
3/4		3/4		3/4		3/4	4,987.24	3/4	4,646.47	3/4	4,304.82	3/4	3,961.68	3/4	3,618.49	3/4	3,275.31	3/4	2,932.13
6		6		6		6	4,980.21	6	4,639.35	6	4,297.69	6	3,954.53	6	3,611.34	6	3,268.16	6	2,924.97
1/4		1/4		1/4		1/4	4,973.18	1/4	4,632.24	1/4	4,290.56	1/4	3,947.38	1/4	3,604.20	1/4	3,261.01	1/4	2,917.82
1/2		1/2		1/2		1/2	4,966.12	1/2	4,625.12	1/2	4,283.41	1/2	3,940.23	1/2	3,597.05	1/2	3,253.86	1/2	2,910.67
3/4		3/4		3/4		3/4	4,959.06	3/4	4,618.00	3/4	4,276.26	3/4	3,933.08	3/4	3,589.90	3/4	3,246.72	3/4	2,903.52
7		7		7		7	4,951.99	7	4,610.89	7	4,269.11	7	3,925.93	7	3,582.75	7	3,239.57	7	2,896.37
1/4		1/4		1/4		1/4	4,944.93	1/4	4,603.77	1/4	4,261.96	1/4	3,918.78	1/4	3,575.60	1/4	3,232.42	1/4	2,889.22
1/2		1/2		1/2		1/2	4,937.86	1/2	4,596.65	1/2	4,254.81	1/2	3,911.63	1/2	3,568.45	1/2	3,225.27	1/2	2,882.06
3/4		3/4		3/4		3/4	4,930.79	3/4	4,589.54	3/4	4,247.66	3/4	3,904.48	3/4	3,561.30	3/4	3,218.12	3/4	2,874.91
8		8		8		8	4,923.72	8	4,582.42	8	4,240.51	8	3,897.33	8	3,554.15	8	3,210.97	8	2,867.76
1/4		1/4		1/4		1/4	4,916.65	1/4	4,575.30	1/4	4,233.36	1/4	3,890.18	1/4	3,547.00	1/4	3,203.82	1/4	2,860.61
1/2		1/2		1/2		1/2	4,909.57	1/2	4,568.18	1/2	4,226.21	1/2	3,883.03	1/2	3,539.85	1/2	3,196.67	1/2	2,853.46
3/4		3/4		3/4		3/4	4,902.50	3/4	4,561.07	3/4	4,219.06	3/4	3,875.88	3/4	3,532.70	3/4	3,189.52	3/4	2,846.30
9		9		9		9	4,895.43	9	4,553.95	9	4,211.91	9	3,868.73	9	3,525.55	9	3,182.37	9	2,839.15
1/4		1/4		1/4		1/4	4,888.36	1/4	4,546.83	1/4	4,204.76	1/4	3,861.58	1/4	3,518.40	1/4	3,175.22	1/4	2,832.00
1/2		1/2		1/2		1/2	4,881.26	1/2	4,539.72	1/2	4,197.61	1/2	3,854.43	1/2	3,511.25	1/2	3,168.07	1/2	2,824.85
3/4		3/4		3/4		3/4	4,874.17	3/4	4,532.60	3/4	4,190.46	3/4	3,847.28	3/4	3,504.10	3/4	3,160.92	3/4	2,817.70
10		10		10		10	4,867.08	10	4,525.48	10	4,183.31	10	3,840.13	10	3,496.95	10	3,153.77	10	2,810.55
1/4		1/4		1/4		1/4	4,859.98	1/4	4,518.37	1/4	4,176.16	1/4	3,832.98	1/4	3,489.80	1/4	3,146.62	1/4	2,803.39
1/2		1/2		1/2		1/2	4,852.87	1/2	4,511.25	1/2	4,169.01	1/2	3,825.83	1/2	3,482.65	1/2	3,139.47	1/2	2,796.24
3/4		3/4		3/4		3/4	4,845.75	3/4	4,504.13	3/4	4,161.86	3/4	3,818.68	3/4	3,475.50	3/4	3,132.32	3/4	2,789.09
11		11		11		11	4,838.63	11	4,497.01	11	4,154.71	11	3,811.53	11	3,468.35	11	3,125.17	11	2,781.94
1/4		1/4		1/4		1/4	5,092.09	1/4	4,831.51	1/4	4,489.90	1/4	4,147.56	1/4	3,804.38	1/4	3,461.20	1/4	3,118.02
1/2		1/2		1/2		1/2	5,091.16	1/2	4,824.40	1/2	4,482.78	1/2	4,140.42	1/2	3,797.23	1/2	3,454.05	1/2	3,110.87
3/4		3/4		3/4		3/4	5,090.23	3/4	4,817.28	3/4	4,475.66	3/4	4,133.27	3/4	3,790.08	3/4	3,446.90	3/4	3,103.72

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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# BARGE "MPX 421"

## 2 PORT ULLAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,753.33	0	2,410.05	0	2,066.77	0	1,723.49	0	1,380.21	0	1,040.79	0	708.16	0	364.89	0	28.97	0	
1/4	2,746.18	1/4	2,402.90	1/4	2,059.62	1/4	1,716.34	1/4	1,373.05	1/4	1,033.95	1/4	701.00	1/4	357.74	1/4	23.61	1/4	
1/2	2,739.03	1/2	2,395.75	1/2	2,052.47	1/2	1,709.18	1/2	1,365.90	1/2	1,027.10	1/2	693.85	1/2	350.59	1/2	20.03	1/2	
3/4	2,731.88	3/4	2,388.60	3/4	2,045.31	3/4	1,702.03	3/4	1,358.75	3/4	1,020.26	3/4	686.70	3/4	343.43	3/4	16.46	3/4	
1	2,724.73	1	2,381.44	1	2,038.16	1	1,694.88	1	1,351.60	1	1,013.42	1	679.55	1	336.28	1	12.88	1	
1/4	2,717.57	1/4	2,374.29	1/4	2,031.01	1/4	1,687.73	1/4	1,344.45	1/4	1,006.57	1/4	672.40	1/4	329.13	1/4	9.31	1/4	
1/2	2,710.42	1/2	2,367.14	1/2	2,023.86	1/2	1,680.58	1/2	1,337.30	1/2	999.73	1/2	665.25	1/2	321.98	1/2	7.52	1/2	
3/4	2,703.27	3/4	2,359.99	3/4	2,016.71	3/4	1,673.43	3/4	1,330.14	3/4	992.88	3/4	658.10	3/4	314.83	3/4	5.73	3/4	
2	2,696.12	2	2,352.84	2	2,009.56	2	1,666.27	2	1,322.99	2	986.04	2	650.94	2	307.68	2	3.94	2	
1/4	2,688.97	1/4	2,345.69	1/4	2,002.40	1/4	1,659.12	1/4	1,315.84	1/4	979.20	1/4	643.79	1/4	300.53	1/4	2.15	1/4	
1/2	2,681.82	1/2	2,338.53	1/2	1,995.25	1/2	1,651.97	1/2	1,308.69	1/2	972.35	1/2	636.64	1/2	293.37	1/2		1/2	
3/4	2,674.66	3/4	2,331.38	3/4	1,988.10	3/4	1,644.82	3/4	1,301.54	3/4	965.51	3/4	629.49	3/4	286.22	3/4		3/4	
3	2,667.51	3	2,324.23	3	1,980.95	3	1,637.67	3	1,294.39	3	958.66	3	622.34	3	279.07	3		3	
1/4	2,660.36	1/4	2,317.08	1/4	1,973.80	1/4	1,630.52	1/4	1,287.23	1/4	951.82	1/4	615.19	1/4	271.92	1/4		1/4	
1/2	2,653.21	1/2	2,309.93	1/2	1,966.65	1/2	1,623.36	1/2	1,280.08	1/2	944.98	1/2	608.04	1/2	264.77	1/2		1/2	
3/4	2,646.06	3/4	2,302.78	3/4	1,959.49	3/4	1,616.21	3/4	1,272.93	3/4	938.13	3/4	600.88	3/4	257.62	3/4		3/4	
4	2,638.91	4	2,295.62	4	1,952.34	4	1,609.06	4	1,265.78	4	931.29	4	593.73	4	250.47	4		4	
1/4	2,631.75	1/4	2,288.47	1/4	1,945.19	1/4	1,601.91	1/4	1,258.63	1/4	924.44	1/4	586.58	1/4	243.31	1/4		1/4	
1/2	2,624.60	1/2	2,281.32	1/2	1,938.04	1/2	1,594.76	1/2	1,251.48	1/2	917.60	1/2	579.43	1/2	236.16	1/2		1/2	
3/4	2,617.45	3/4	2,274.17	3/4	1,930.89	3/4	1,587.61	3/4	1,244.32	3/4	910.76	3/4	572.28	3/4	229.01	3/4		3/4	
5	2,610.30	5	2,267.02	5	1,923.74	5	1,580.45	5	1,237.17	5	903.91	5	565.13	5	221.86	5		5	
1/4	2,603.15	1/4	2,259.87	1/4	1,916.58	1/4	1,573.30	1/4	1,230.02	1/4	897.07	1/4	557.98	1/4	214.71	1/4		1/4	
1/2	2,596.00	1/2	2,252.71	1/2	1,909.43	1/2	1,566.15	1/2	1,222.87	1/2	890.22	1/2	550.82	1/2	207.56	1/2		1/2	
3/4	2,588.84	3/4	2,245.56	3/4	1,902.28	3/4	1,559.00	3/4	1,215.72	3/4	883.38	3/4	543.67	3/4	200.41	3/4		3/4	
6	2,581.69	6	2,238.41	6	1,895.13	6	1,551.85	6	1,208.57	6	876.54	6	536.52	6	193.25	6		6	
1/4	2,574.54	1/4	2,231.26	1/4	1,887.98	1/4	1,544.70	1/4	1,201.41	1/4	869.69	1/4	529.37	1/4	186.10	1/4		1/4	
1/2	2,567.39	1/2	2,224.11	1/2	1,880.83	1/2	1,537.54	1/2	1,194.26	1/2	862.84	1/2	522.22	1/2	178.95	1/2		1/2	
3/4	2,560.24	3/4	2,216.96	3/4	1,873.67	3/4	1,530.39	3/4	1,187.11	3/4	856.00	3/4	515.07	3/4	171.80	3/4		3/4	
7	2,553.09	7	2,209.80	7	1,866.52	7	1,523.24	7	1,179.96	7	849.15	7	507.92	7	164.65	7		7	
1/4	2,545.93	1/4	2,202.65	1/4	1,859.37	1/4	1,516.09	1/4	1,172.81	1/4	842.30	1/4	500.76	1/4	157.50	1/4		1/4	
1/2	2,538.78	1/2	2,195.50	1/2	1,852.22	1/2	1,508.94	1/2	1,165.66	1/2	835.44	1/2	493.61	1/2	150.35	1/2		1/2	
3/4	2,531.63	3/4	2,188.35	3/4	1,845.07	3/4	1,501.79	3/4	1,158.50	3/4	828.58	3/4	486.46	3/4	143.20	3/4		3/4	
8	2,524.48	8	2,181.20	8	1,837.92	8	1,494.63	8	1,151.35	8	821.72	8	479.31	8	136.05	8		8	
1/4	2,517.33	1/4	2,174.05	1/4	1,830.76	1/4	1,487.48	1/4	1,144.20	1/4	814.86	1/4	472.16	1/4	128.89	1/4		1/4	
1/2	2,510.18	1/2	2,166.89	1/2	1,823.61	1/2	1,480.33	1/2	1,137.19	1/2	807.85	1/2	465.01	1/2	121.75	1/2		1/2	
3/4	2,503.02	3/4	2,159.74	3/4	1,816.46	3/4	1,473.18	3/4	1,130.18	3/4	800.84	3/4	457.86	3/4	114.60	3/4		3/4	
9	2,495.87	9	2,152.59	9	1,809.31	9	1,466.03	9	1,123.17	9	793.83	9	450.70	9	107.46	9		9	
1/4	2,488.72	1/4	2,145.44	1/4	1,802.16	1/4	1,458.88	1/4	1,116.16	1/4	786.82	1/4	443.55	1/4	100.31	1/4		1/4	
1/2	2,481.57	1/2	2,138.29	1/2	1,795.01	1/2	1,451.72	1/2	1,109.30	1/2	779.67	1/2	436.40	1/2	93.18	1/2		1/2	
3/4	2,474.42	3/4	2,131.13	3/4	1,787.85	3/4	1,444.57	3/4	1,102.44	3/4	772.52	3/4	429.25	3/4	86.06	3/4		3/4	
10	2,467.26	10	2,123.98	10	1,780.70	10	1,437.42	10	1,095.58	10	765.37	10	422.10	10	78.93	10		10	
1/4	2,460.11	1/4	2,116.83	1/4	1,773.55	1/4	1,430.27	1/4	1,088.72	1/4	758.22	1/4	414.95	1/4	71.80	1/4		1/4	
1/2	2,452.96	1/2	2,109.68	1/2	1,766.40	1/2	1,423.12	1/2	1,081.87	1/2	751.06	1/2	407.80	1/2	65.12	1/2		1/2	
3/4	2,445.81	3/4	2,102.53	3/4	1,759.25	3/4	1,415.96	3/4	1,075.02	3/4	743.91	3/4	400.65	3/4	58.43	3/4		3/4	
11	2,438.66	11	2,095.38	11	1,752.09	11	1,408.81	11	1,068.17	11	736.76	11	393.49	11	51.74	11		11	
1/4	2,431.51	1/4	2,088.22	1/4	1,744.94	1/4	1,401.66	1/4	1,061.32	1/4	729.61	1/4	386.34	1/4	45.06	1/4		1/4	
1/2	2,424.35	1/2	2,081.07	1/2	1,737.79	1/2	1,394.51	1/2	1,054.48	1/2	722.46	1/2	379.19	1/2	39.70	1/2		1/2	
3/4	2,417.20	3/4	2,073.92	3/4	1,730.64	3/4	1,387.36	3/4	1,047.64	3/4	715.31	3/4	372.04	3/4	34.33	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 2 STBD ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	5,106.92	0	4,821.26	0	4,479.27	0	4,136.44	0	3,792.88	0	3,449.40	0	3,105.94
1/4		1/4		1/4		1/4	5,104.91	1/4	4,814.13	1/4	4,472.15	1/4	4,129.28	1/4	3,785.73	1/4	3,442.24	1/4	3,098.78
1/2		1/2		1/2		1/2	5,102.90	1/2	4,807.01	1/2	4,465.02	1/2	4,122.12	1/2	3,778.57	1/2	3,435.09	1/2	3,091.63
3/4		3/4		3/4		3/4	5,100.89	3/4	4,799.89	3/4	4,457.90	3/4	4,114.97	3/4	3,771.41	3/4	3,427.93	3/4	3,084.47
1		1		1		1	5,098.88	1	4,792.76	1	4,450.78	1	4,107.81	1	3,764.25	1	3,420.77	1	3,077.32
1/4		1/4		1/4		1/4	5,095.68	1/4	4,785.64	1/4	4,443.65	1/4	4,100.65	1/4	3,757.10	1/4	3,413.62	1/4	3,070.16
1/2		1/2		1/2		1/2	5,092.47	1/2	4,778.51	1/2	4,436.53	1/2	4,093.49	1/2	3,749.94	1/2	3,406.46	1/2	3,063.00
3/4		3/4		3/4		3/4	5,089.27	3/4	4,771.39	3/4	4,429.40	3/4	4,086.34	3/4	3,742.78	3/4	3,399.31	3/4	3,055.85
2		2		2		2	5,086.07	2	4,764.26	2	4,422.28	2	4,079.18	2	3,735.62	2	3,392.15	2	3,048.69
1/4		1/4		1/4		1/4	5,081.67	1/4	4,757.14	1/4	4,415.15	1/4	4,072.02	1/4	3,728.47	1/4	3,385.00	1/4	3,041.53
1/2		1/2		1/2		1/2	5,077.28	1/2	4,750.01	1/2	4,408.03	1/2	4,064.86	1/2	3,721.31	1/2	3,377.84	1/2	3,034.38
3/4		3/4		3/4		3/4	5,072.88	3/4	4,742.89	3/4	4,400.90	3/4	4,057.71	3/4	3,714.15	3/4	3,370.69	3/4	3,027.22
3		3		3		3	5,068.48	3	4,735.76	3	4,393.78	3	4,050.55	3	3,706.99	3	3,363.53	3	3,020.06
1/4		1/4		1/4		1/4	5,062.90	1/4	4,728.64	1/4	4,386.65	1/4	4,043.39	1/4	3,699.84	1/4	3,356.38	1/4	3,012.90
1/2		1/2		1/2		1/2	5,057.31	1/2	4,721.51	1/2	4,379.53	1/2	4,036.23	1/2	3,692.68	1/2	3,349.22	1/2	3,005.75
3/4		3/4		3/4		3/4	5,051.72	3/4	4,714.39	3/4	4,372.40	3/4	4,029.08	3/4	3,685.53	3/4	3,342.06	3/4	2,998.59
4		4		4		4	5,046.13	4	4,707.26	4	4,365.28	4	4,021.92	4	3,678.37	4	3,334.91	4	2,991.43
1/4		1/4		1/4		1/4	5,039.53	1/4	4,700.14	1/4	4,358.15	1/4	4,014.76	1/4	3,671.21	1/4	3,327.75	1/4	2,984.27
1/2		1/2		1/2		1/2	5,032.93	1/2	4,693.01	1/2	4,351.03	1/2	4,007.60	1/2	3,664.06	1/2	3,320.60	1/2	2,977.12
3/4		3/4		3/4		3/4	5,026.34	3/4	4,685.89	3/4	4,343.90	3/4	4,000.45	3/4	3,656.90	3/4	3,313.44	3/4	2,969.96
5		5		5		5	5,019.74	5	4,678.77	5	4,336.78	5	3,993.29	5	3,649.75	5	3,306.29	5	2,962.80
1/4		1/4		1/4		1/4	5,012.70	1/4	4,671.64	1/4	4,329.64	1/4	3,986.13	1/4	3,642.59	1/4	3,299.13	1/4	2,955.64
1/2		1/2		1/2		1/2	5,005.66	1/2	4,664.52	1/2	4,322.50	1/2	3,978.98	1/2	3,635.44	1/2	3,291.98	1/2	2,948.49
3/4		3/4		3/4		3/4	4,998.62	3/4	4,657.39	3/4	4,315.36	3/4	3,971.82	3/4	3,628.28	3/4	3,284.82	3/4	2,941.33
6		6		6		6	4,991.59	6	4,650.27	6	4,308.22	6	3,964.66	6	3,621.13	6	3,277.67	6	2,934.17
1/4		1/4		1/4		1/4	4,984.51	1/4	4,643.14	1/4	4,301.06	1/4	3,957.50	1/4	3,613.97	1/4	3,270.51	1/4	2,927.01
1/2		1/2		1/2		1/2	4,977.44	1/2	4,636.02	1/2	4,293.90	1/2	3,950.35	1/2	3,606.81	1/2	3,263.36	1/2	2,919.86
3/4		3/4		3/4		3/4	4,970.37	3/4	4,628.89	3/4	4,286.74	3/4	3,943.19	3/4	3,599.66	3/4	3,256.20	3/4	2,912.70
7		7		7		7	4,963.30	7	4,621.77	7	4,279.59	7	3,936.03	7	3,592.50	7	3,249.04	7	2,905.54
1/4		1/4		1/4		1/4	4,956.22	1/4	4,614.64	1/4	4,272.43	1/4	3,928.87	1/4	3,585.35	1/4	3,241.89	1/4	2,898.38
1/2		1/2		1/2		1/2	4,949.14	1/2	4,607.52	1/2	4,265.27	1/2	3,921.72	1/2	3,578.19	1/2	3,234.73	1/2	2,891.23
3/4		3/4		3/4		3/4	4,942.06	3/4	4,600.39	3/4	4,258.11	3/4	3,914.56	3/4	3,571.04	3/4	3,227.58	3/4	2,884.07
8		8		8		8	4,934.98	8	4,593.27	8	4,250.96	8	3,907.40	8	3,563.88	8	3,220.42	8	2,876.91
1/4		1/4		1/4		1/4	4,927.90	1/4	4,586.14	1/4	4,243.80	1/4	3,900.24	1/4	3,556.73	1/4	3,213.27	1/4	2,869.75
1/2		1/2		1/2		1/2	4,920.83	1/2	4,579.02	1/2	4,236.64	1/2	3,893.09	1/2	3,549.57	1/2	3,206.11	1/2	2,862.60
3/4		3/4		3/4		3/4	4,913.75	3/4	4,571.90	3/4	4,229.48	3/4	3,885.93	3/4	3,542.42	3/4	3,198.96	3/4	2,855.44
9		9		9		9	4,906.67	9	4,564.77	9	4,222.33	9	3,878.77	9	3,535.26	9	3,191.80	9	2,848.28
1/4		1/4		1/4		1/4	4,899.56	1/4	4,557.65	1/4	4,215.17	1/4	3,871.61	1/4	3,528.11	1/4	3,184.65	1/4	2,841.13
1/2		1/2		1/2		1/2	4,892.46	1/2	4,550.52	1/2	4,208.01	1/2	3,864.46	1/2	3,520.95	1/2	3,177.49	1/2	2,833.97
3/4		3/4		3/4		3/4	4,885.36	3/4	4,543.40	3/4	4,200.85	3/4	3,857.30	3/4	3,513.79	3/4	3,170.34	3/4	2,826.81
10		10		10		10	4,878.26	10	4,536.27	10	4,193.70	10	3,850.14	10	3,506.64	10	3,163.18	10	2,819.65
1/4		1/4		1/4		1/4	4,871.13	1/4	4,529.15	1/4	4,186.54	1/4	3,842.98	1/4	3,499.48	1/4	3,156.02	1/4	2,812.50
1/2		1/2		1/2		1/2	4,864.01	1/2	4,522.02	1/2	4,179.38	1/2	3,835.83	1/2	3,492.33	1/2	3,148.87	1/2	2,805.34
3/4		3/4		3/4		3/4	4,856.88	3/4	4,514.90	3/4	4,172.22	3/4	3,828.67	3/4	3,485.17	3/4	3,141.71	3/4	2,798.18
11		11		11	5,110.64	11	4,849.76	11	4,507.77	11	4,165.07	11	3,821.51	11	3,478.02	11	3,134.56	11	2,791.02
1/4		1/4		1/4	5,109.71	1/4	4,842.63	1/4	4,500.65	1/4	4,157.91	1/4	3,814.35	1/4	3,470.86	1/4	3,127.40	1/4	2,783.87
1/2		1/2		1/2	5,108.78	1/2	4,835.51	1/2	4,493.52	1/2	4,150.75	1/2	3,807.20	1/2	3,463.71	1/2	3,120.25	1/2	2,776.71
3/4		3/4		3/4	5,107.85	3/4	4,828.38	3/4	4,486.40	3/4	4,143.60	3/4	3,800.04	3/4	3,456.55	3/4	3,113.09	3/4	2,769.55

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MPX 421"

## 2 STBD

### ULLAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,762.39	0	2,418.84	0	2,075.28	0	1,731.73	0	1,388.17	0	1,044.72	0	701.56	0	358.02	0	23.62	0	
1/4	2,755.24	1/4	2,411.68	1/4	2,068.13	1/4	1,724.57	1/4	1,381.02	1/4	1,037.58	1/4	694.40	1/4	350.86	1/4	20.04	1/4	
1/2	2,748.08	1/2	2,404.52	1/2	2,060.97	1/2	1,717.41	1/2	1,373.86	1/2	1,030.44	1/2	687.25	1/2	343.71	1/2	16.47	1/2	
3/4	2,740.92	3/4	2,397.37	3/4	2,053.81	3/4	1,710.26	3/4	1,366.70	3/4	1,023.29	3/4	680.09	3/4	336.55	3/4	12.89	3/4	
1	2,733.76	1	2,390.21	1	2,046.65	1	1,703.10	1	1,359.54	1	1,016.15	1	672.93	1	329.39	1	9.31	1	
1/4	2,726.61	1/4	2,383.05	1/4	2,039.50	1/4	1,695.94	1/4	1,352.39	1/4	1,009.01	1/4	665.78	1/4	322.23	1/4	7.52	1/4	
1/2	2,719.45	1/2	2,375.89	1/2	2,032.34	1/2	1,688.78	1/2	1,345.23	1/2	1,001.86	1/2	658.62	1/2	315.08	1/2	5.73	1/2	
3/4	2,712.29	3/4	2,368.74	3/4	2,025.18	3/4	1,681.63	3/4	1,338.07	3/4	994.72	3/4	651.46	3/4	307.92	3/4	3.94	3/4	
2	2,705.13	2	2,361.58	2	2,018.02	2	1,674.47	2	1,330.91	2	987.58	2	644.30	2	300.76	2	2.16	2	
1/4	2,697.98	1/4	2,354.42	1/4	2,010.87	1/4	1,667.31	1/4	1,323.76	1/4	980.44	1/4	637.15	1/4	293.61	1/4		1/4	
1/2	2,690.82	1/2	2,347.26	1/2	2,003.71	1/2	1,660.15	1/2	1,316.60	1/2	973.29	1/2	629.99	1/2	286.45	1/2		1/2	
3/4	2,683.66	3/4	2,340.11	3/4	1,996.55	3/4	1,653.00	3/4	1,309.44	3/4	966.15	3/4	622.83	3/4	279.29	3/4		3/4	
3	2,676.51	3	2,332.95	3	1,989.39	3	1,645.84	3	1,302.28	3	959.01	3	615.68	3	272.13	3		3	
1/4	2,669.35	1/4	2,325.79	1/4	1,982.24	1/4	1,638.68	1/4	1,295.13	1/4	951.86	1/4	608.52	1/4	264.98	1/4		1/4	
1/2	2,662.19	1/2	2,318.64	1/2	1,975.08	1/2	1,631.52	1/2	1,287.97	1/2	944.72	1/2	601.36	1/2	257.82	1/2		1/2	
3/4	2,655.03	3/4	2,311.48	3/4	1,967.92	3/4	1,624.37	3/4	1,280.81	3/4	937.58	3/4	594.20	3/4	250.66	3/4		3/4	
4	2,647.88	4	2,304.32	4	1,960.77	4	1,617.21	4	1,273.65	4	930.43	4	587.05	4	243.51	4		4	
1/4	2,640.72	1/4	2,297.16	1/4	1,953.61	1/4	1,610.05	1/4	1,266.50	1/4	923.29	1/4	579.89	1/4	236.35	1/4		1/4	
1/2	2,633.56	1/2	2,290.01	1/2	1,946.45	1/2	1,602.90	1/2	1,259.34	1/2	916.15	1/2	572.73	1/2	229.19	1/2		1/2	
3/4	2,626.40	3/4	2,282.85	3/4	1,939.29	3/4	1,595.74	3/4	1,252.18	3/4	909.00	3/4	565.58	3/4	222.04	3/4		3/4	
5	2,619.25	5	2,275.69	5	1,932.14	5	1,588.58	5	1,245.03	5	901.86	5	558.42	5	214.88	5		5	
1/4	2,612.09	1/4	2,268.53	1/4	1,924.98	1/4	1,581.42	1/4	1,237.87	1/4	894.72	1/4	551.26	1/4	207.72	1/4		1/4	
1/2	2,604.93	1/2	2,261.38	1/2	1,917.82	1/2	1,574.27	1/2	1,230.71	1/2	887.57	1/2	544.10	1/2	200.56	1/2		1/2	
3/4	2,597.77	3/4	2,254.22	3/4	1,910.66	3/4	1,567.11	3/4	1,223.55	3/4	880.43	3/4	536.95	3/4	193.41	3/4		3/4	
6	2,590.62	6	2,247.06	6	1,903.51	6	1,559.95	6	1,216.40	6	873.29	6	529.79	6	186.25	6		6	
1/4	2,583.46	1/4	2,239.90	1/4	1,896.35	1/4	1,552.79	1/4	1,209.24	1/4	866.14	1/4	522.63	1/4	179.09	1/4		1/4	
1/2	2,576.30	1/2	2,232.75	1/2	1,889.19	1/2	1,545.64	1/2	1,202.08	1/2	858.99	1/2	515.48	1/2	171.94	1/2		1/2	
3/4	2,569.14	3/4	2,225.59	3/4	1,882.03	3/4	1,538.48	3/4	1,194.92	3/4	851.85	3/4	508.32	3/4	164.78	3/4		3/4	
7	2,561.99	7	2,218.43	7	1,874.88	7	1,531.32	7	1,187.77	7	844.70	7	501.16	7	157.62	7		7	
1/4	2,554.83	1/4	2,211.27	1/4	1,867.72	1/4	1,524.16	1/4	1,180.61	1/4	837.54	1/4	494.00	1/4	150.46	1/4		1/4	
1/2	2,547.67	1/2	2,204.12	1/2	1,860.56	1/2	1,517.01	1/2	1,173.45	1/2	830.39	1/2	486.85	1/2	143.31	1/2		1/2	
3/4	2,540.51	3/4	2,196.96	3/4	1,853.40	3/4	1,509.85	3/4	1,166.29	3/4	823.23	3/4	479.69	3/4	136.15	3/4		3/4	
8	2,533.36	8	2,189.80	8	1,846.25	8	1,502.69	8	1,159.14	8	816.07	8	472.53	8	128.99	8		8	
1/4	2,526.20	1/4	2,182.64	1/4	1,839.09	1/4	1,495.53	1/4	1,151.98	1/4	808.92	1/4	465.38	1/4	121.84	1/4		1/4	
1/2	2,519.04	1/2	2,175.49	1/2	1,831.93	1/2	1,488.38	1/2	1,144.82	1/2	801.76	1/2	458.22	1/2	114.69	1/2		1/2	
3/4	2,511.88	3/4	2,168.33	3/4	1,824.77	3/4	1,481.22	3/4	1,137.66	3/4	794.60	3/4	451.06	3/4	107.54	3/4		3/4	
9	2,504.73	9	2,161.17	9	1,817.62	9	1,474.06	9	1,130.51	9	787.45	9	443.91	9	100.39	9		9	
1/4	2,497.57	1/4	2,154.01	1/4	1,810.46	1/4	1,466.90	1/4	1,123.35	1/4	780.29	1/4	436.75	1/4	93.26	1/4		1/4	
1/2	2,490.41	1/2	2,146.86	1/2	1,803.30	1/2	1,459.75	1/2	1,116.20	1/2	773.13	1/2	429.59	1/2	86.12	1/2		1/2	
3/4	2,483.26	3/4	2,139.70	3/4	1,796.14	3/4	1,452.59	3/4	1,109.04	3/4	765.97	3/4	422.43	3/4	78.99	3/4		3/4	
10	2,476.10	10	2,132.54	10	1,788.99	10	1,445.43	10	1,101.89	10	758.82	10	415.28	10	71.86	10		10	
1/4	2,468.94	1/4	2,125.39	1/4	1,781.83	1/4	1,438.27	1/4	1,094.74	1/4	751.66	1/4	408.12	1/4	65.16	1/4		1/4	
1/2	2,461.78	1/2	2,118.23	1/2	1,774.67	1/2	1,431.12	1/2	1,087.59	1/2	744.50	1/2	400.96	1/2	58.47	1/2		1/2	
3/4	2,454.63	3/4	2,111.07	3/4	1,767.52	3/4	1,423.96	3/4	1,080.45	3/4	737.35	3/4	393.81	3/4	51.78	3/4		3/4	
11	2,447.47	11	2,103.91	11	1,760.36	11	1,416.80	11	1,073.30	11	730.19	11	386.65	11	45.09	11		11	
1/4	2,440.31	1/4	2,096.76	1/4	1,753.20	1/4	1,409.65	1/4	1,066.15	1/4	723.03	1/4	379.49	1/4	39.72	1/4		1/4	
1/2	2,433.15	1/2	2,089.60	1/2	1,746.04	1/2	1,402.49	1/2	1,059.01	1/2	715.87	1/2	372.33	1/2	34.36	1/2		1/2	
3/4	2,426.00	3/4	2,082.44	3/4	1,738.89	3/4	1,395.33	3/4	1,051.87	3/4	708.72	3/4	365.18	3/4	28.99	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 3 PORT ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,398.67	0	4,232.46	0	4,023.52	0	3,814.11	0	3,604.25	0	3,394.91	0	3,084.39
1/4		1/4		1/4		1/4	4,397.59	1/4	4,228.11	1/4	4,019.17	1/4	3,809.73	1/4	3,599.88	1/4	3,390.56	1/4	3,077.28
1/2		1/2		1/2		1/2	4,395.88	1/2	4,223.76	1/2	4,014.82	1/2	3,805.36	1/2	3,595.51	1/2	3,386.21	1/2	3,070.16
3/4		3/4		3/4		3/4	4,394.18	3/4	4,219.40	3/4	4,010.46	3/4	3,800.99	3/4	3,591.13	3/4	3,381.86	3/4	3,063.04
1		1		1		1	4,392.47	1	4,215.05	1	4,006.11	1	3,796.62	1	3,586.76	1	3,377.52	1	3,055.93
1/4		1/4		1/4		1/4	4,390.76	1/4	4,210.70	1/4	4,001.76	1/4	3,792.25	1/4	3,582.39	1/4	3,373.17	1/4	3,048.81
1/2		1/2		1/2		1/2	4,389.05	1/2	4,206.34	1/2	3,997.40	1/2	3,787.87	1/2	3,578.02	1/2	3,368.83	1/2	3,041.69
3/4		3/4		3/4		3/4	4,387.34	3/4	4,201.99	3/4	3,993.05	3/4	3,783.50	3/4	3,573.65	3/4	3,364.49	3/4	3,034.57
2		2		2		2	4,385.64	2	4,197.64	2	3,988.70	2	3,779.13	2	3,569.27	2	3,360.16	2	3,027.44
1/4		1/4		1/4		1/4	4,383.93	1/4	4,193.28	1/4	3,984.35	1/4	3,774.76	1/4	3,564.90	1/4	3,355.82	1/4	3,020.32
1/2		1/2		1/2		1/2	4,381.95	1/2	4,188.93	1/2	3,979.99	1/2	3,770.39	1/2	3,560.53	1/2	3,351.45	1/2	3,013.19
3/4		3/4		3/4		3/4	4,379.98	3/4	4,184.58	3/4	3,975.64	3/4	3,766.01	3/4	3,556.16	3/4	3,347.08	3/4	3,006.05
3		3		3		3	4,378.00	3	4,180.23	3	3,971.29	3	3,761.64	3	3,551.79	3	3,342.71	3	2,998.92
1/4		1/4		1/4		1/4	4,376.02	1/4	4,175.87	1/4	3,966.93	1/4	3,757.27	1/4	3,547.41	1/4	3,338.34	1/4	2,991.79
1/2		1/2		1/2		1/2	4,373.18	1/2	4,171.52	1/2	3,962.58	1/2	3,752.90	1/2	3,543.05	1/2	3,333.97	1/2	2,984.66
3/4		3/4		3/4		3/4	4,370.34	3/4	4,167.17	3/4	3,958.23	3/4	3,748.53	3/4	3,538.69	3/4	3,329.60	3/4	2,977.53
4		4		4		4	4,367.51	4	4,162.81	4	3,953.88	4	3,744.15	4	3,534.32	4	3,325.23	4	2,970.40
1/4		1/4		1/4		1/4	4,364.67	1/4	4,158.46	1/4	3,949.52	1/4	3,739.78	1/4	3,529.96	1/4	3,320.86	1/4	2,963.26
1/2		1/2		1/2		1/2	4,360.82	1/2	4,154.11	1/2	3,945.17	1/2	3,735.41	1/2	3,525.60	1/2	3,316.49	1/2	2,956.13
3/4		3/4		3/4		3/4	4,356.98	3/4	4,149.76	3/4	3,940.82	3/4	3,731.04	3/4	3,521.24	3/4	3,312.12	3/4	2,949.00
5		5		5		5	4,353.13	5	4,145.40	5	3,936.46	5	3,726.67	5	3,516.89	5	3,307.75	5	2,941.87
1/4		1/4		1/4		1/4	4,349.29	1/4	4,141.05	1/4	3,932.11	1/4	3,722.29	1/4	3,512.53	1/4	3,303.38	1/4	2,934.74
1/2		1/2		1/2		1/2	4,345.00	1/2	4,136.70	1/2	3,927.75	1/2	3,717.92	1/2	3,508.18	1/2	3,298.99	1/2	2,927.61
3/4		3/4		3/4		3/4	4,340.72	3/4	4,132.34	3/4	3,923.39	3/4	3,713.55	3/4	3,503.82	3/4	3,294.60	3/4	2,920.49
6		6		6		6	4,336.43	6	4,127.99	6	3,919.02	6	3,709.18	6	3,499.46	6	3,290.21	6	2,913.36
1/4		1/4		1/4		1/4	4,332.15	1/4	4,123.64	1/4	3,914.66	1/4	3,704.81	1/4	3,495.11	1/4	3,285.82	1/4	2,906.23
1/2		1/2		1/2		1/2	4,327.83	1/2	4,119.29	1/2	3,910.29	1/2	3,700.43	1/2	3,490.75	1/2	3,281.43	1/2	2,899.11
3/4		3/4		3/4		3/4	4,323.52	3/4	4,114.93	3/4	3,905.92	3/4	3,696.06	3/4	3,486.39	3/4	3,277.04	3/4	2,891.99
7		7		7		7	4,319.20	7	4,110.58	7	3,901.55	7	3,691.69	7	3,482.04	7	3,272.65	7	2,884.87
1/4		1/4		1/4		1/4	4,314.88	1/4	4,106.23	1/4	3,897.17	1/4	3,687.32	1/4	3,477.68	1/4	3,268.26	1/4	2,877.75
1/2		1/2		1/2		1/2	4,310.56	1/2	4,101.87	1/2	3,892.80	1/2	3,682.95	1/2	3,473.33	1/2	3,263.87	1/2	2,870.63
3/4		3/4		3/4		3/4	4,306.24	3/4	4,097.52	3/4	3,888.43	3/4	3,678.57	3/4	3,468.97	3/4	3,259.48	3/4	2,863.51
8		8		8		8	4,301.91	8	4,093.17	8	3,884.06	8	3,674.20	8	3,464.61	8	3,255.09	8	2,856.39
1/4		1/4		1/4		1/4	4,297.59	1/4	4,088.82	1/4	3,879.69	1/4	3,669.83	1/4	3,460.26	1/4	3,250.70	1/4	2,849.27
1/2		1/2		1/2		1/2	4,293.26	1/2	4,084.46	1/2	3,875.31	1/2	3,665.46	1/2	3,455.90	1/2	3,246.31	1/2	2,842.15
3/4		3/4		3/4		3/4	4,288.94	3/4	4,080.11	3/4	3,870.94	3/4	3,661.09	3/4	3,451.55	3/4	3,241.92	3/4	2,835.03
9		9		9		9	4,284.61	9	4,075.76	9	3,866.57	9	3,656.71	9	3,447.19	9	3,237.53	9	2,827.91
1/4		1/4		1/4		1/4	4,280.29	1/4	4,071.40	1/4	3,862.20	1/4	3,652.34	1/4	3,442.83	1/4	3,233.14	1/4	2,820.79
1/2		1/2		1/2		1/2	4,275.95	1/2	4,067.05	1/2	3,857.83	1/2	3,647.97	1/2	3,438.48	1/2	3,228.75	1/2	2,813.67
3/4		3/4		3/4		3/4	4,271.61	3/4	4,062.70	3/4	3,853.45	3/4	3,643.60	3/4	3,434.12	3/4	3,224.36	3/4	2,806.55
10		10		10		10	4,267.27	10	4,058.34	10	3,849.08	10	3,639.23	10	3,429.76	10	3,219.97	10	2,799.43
1/4		1/4		1/4		1/4	4,262.93	1/4	4,053.99	1/4	3,844.71	1/4	3,634.85	1/4	3,425.41	1/4	3,215.58	1/4	2,792.31
1/2		1/2		1/2		1/2	4,258.58	1/2	4,049.64	1/2	3,840.34	1/2	3,630.48	1/2	3,421.05	1/2	3,211.19	1/2	2,785.19
3/4		3/4		3/4		3/4	4,254.23	3/4	4,045.29	3/4	3,835.97	3/4	3,626.11	3/4	3,416.70	3/4	3,206.80	3/4	2,778.07
11		11		11		11	4,249.87	11	4,040.93	11	3,831.59	11	3,621.74	11	3,412.34	11	3,202.41	11	2,770.95
1/4		1/4		1/4	4,401.90	1/4	4,245.52	1/4	4,036.58	1/4	3,827.22	1/4	3,617.37	1/4	3,407.98	1/4	3,198.02	1/4	2,763.83
1/2		1/2		1/2	4,400.82	1/2	4,241.17	1/2	4,032.23	1/2	3,822.85	1/2	3,612.99	1/2	3,403.63	1/2	3,193.63	1/2	2,756.71
3/4		3/4		3/4	4,399.75	3/4	4,236.81	3/4	4,027.87	3/4	3,818.48	3/4	3,608.62	3/4	3,399.27	3/4	3,189.24	3/4	2,749.59

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 3 PORT ULLAGE TABLE 10" HATCH

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 18'-02 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,742.47	0	2,400.71	0	2,058.91	0	1,717.11	0	1,375.31	0	1,037.19	0	705.86	0	363.99	0	28.90	0	
1/4	2,735.35	1/4	2,393.58	1/4	2,051.79	1/4	1,709.99	1/4	1,368.19	1/4	1,030.38	1/4	698.74	1/4	356.86	1/4	23.55	1/4	
1/2	2,728.23	1/2	2,386.46	1/2	2,044.67	1/2	1,702.87	1/2	1,361.07	1/2	1,023.57	1/2	691.62	1/2	349.73	1/2	19.99	1/2	
3/4	2,721.11	3/4	2,379.34	3/4	2,037.54	3/4	1,695.75	3/4	1,353.95	3/4	1,016.76	3/4	684.50	3/4	342.59	3/4	16.42	3/4	
1	2,713.99	1	2,372.22	1	2,030.42	1	1,688.63	1	1,346.83	1	1,009.95	1	677.38	1	335.46	1	12.85	1	
1/4	2,706.87	1/4	2,365.10	1/4	2,023.30	1/4	1,681.50	1/4	1,339.71	1/4	1,003.14	1/4	670.25	1/4	328.32	1/4	9.29	1/4	
1/2	2,699.75	1/2	2,357.98	1/2	2,016.18	1/2	1,674.38	1/2	1,332.59	1/2	996.32	1/2	663.13	1/2	321.19	1/2	7.50	1/2	
3/4	2,692.63	3/4	2,350.86	3/4	2,009.06	3/4	1,667.26	3/4	1,325.46	3/4	989.51	3/4	656.01	3/4	314.06	3/4	5.72	3/4	
2	2,685.51	2	2,343.74	2	2,001.94	2	1,660.14	2	1,318.34	2	982.70	2	648.89	2	306.92	2	3.94	2	
1/4	2,678.39	1/4	2,336.62	1/4	1,994.82	1/4	1,653.02	1/4	1,311.22	1/4	975.89	1/4	641.77	1/4	299.79	1/4	2.15	1/4	
1/2	2,671.27	1/2	2,329.50	1/2	1,987.70	1/2	1,645.90	1/2	1,304.10	1/2	969.08	1/2	634.64	1/2	292.66	1/2		1/2	
3/4	2,664.16	3/4	2,322.38	3/4	1,980.58	3/4	1,638.78	3/4	1,296.98	3/4	962.27	3/4	627.52	3/4	285.52	3/4		3/4	
3	2,657.04	3	2,315.26	3	1,973.46	3	1,631.66	3	1,289.86	3	955.46	3	620.40	3	278.39	3		3	
1/4	2,649.92	1/4	2,308.14	1/4	1,966.34	1/4	1,624.54	1/4	1,282.74	1/4	948.64	1/4	613.28	1/4	271.25	1/4		1/4	
1/2	2,642.80	1/2	2,301.01	1/2	1,959.22	1/2	1,617.42	1/2	1,275.62	1/2	941.83	1/2	606.15	1/2	264.12	1/2		1/2	
3/4	2,635.68	3/4	2,293.89	3/4	1,952.10	3/4	1,610.30	3/4	1,268.50	3/4	935.02	3/4	599.03	3/4	256.99	3/4		3/4	
4	2,628.56	4	2,286.77	4	1,944.97	4	1,603.18	4	1,261.38	4	928.21	4	591.91	4	249.85	4		4	
1/4	2,621.44	1/4	2,279.65	1/4	1,937.85	1/4	1,596.06	1/4	1,254.26	1/4	921.40	1/4	584.79	1/4	242.72	1/4		1/4	
1/2	2,614.32	1/2	2,272.53	1/2	1,930.73	1/2	1,588.93	1/2	1,247.14	1/2	914.59	1/2	577.67	1/2	235.58	1/2		1/2	
3/4	2,607.20	3/4	2,265.41	3/4	1,923.61	3/4	1,581.81	3/4	1,240.02	3/4	907.78	3/4	570.54	3/4	228.45	3/4		3/4	
5	2,600.08	5	2,258.29	5	1,916.49	5	1,574.69	5	1,232.89	5	900.97	5	563.42	5	221.32	5		5	
1/4	2,592.96	1/4	2,251.17	1/4	1,909.37	1/4	1,567.57	1/4	1,225.77	1/4	894.16	1/4	556.30	1/4	214.18	1/4		1/4	
1/2	2,585.84	1/2	2,244.05	1/2	1,902.25	1/2	1,560.45	1/2	1,218.65	1/2	887.35	1/2	549.18	1/2	207.05	1/2		1/2	
3/4	2,578.72	3/4	2,236.93	3/4	1,895.13	3/4	1,553.33	3/4	1,211.53	3/4	880.53	3/4	542.06	3/4	199.92	3/4		3/4	
6	2,571.60	6	2,229.81	6	1,888.01	6	1,546.21	6	1,204.41	6	873.72	6	534.93	6	192.78	6		6	
1/4	2,564.48	1/4	2,222.69	1/4	1,880.89	1/4	1,539.09	1/4	1,197.29	1/4	866.91	1/4	527.81	1/4	185.65	1/4		1/4	
1/2	2,557.36	1/2	2,215.56	1/2	1,873.77	1/2	1,531.97	1/2	1,190.17	1/2	860.10	1/2	520.69	1/2	178.51	1/2		1/2	
3/4	2,550.24	3/4	2,208.44	3/4	1,866.65	3/4	1,524.85	3/4	1,183.05	3/4	853.28	3/4	513.57	3/4	171.38	3/4		3/4	
7	2,543.12	7	2,201.32	7	1,859.52	7	1,517.73	7	1,175.93	7	846.47	7	506.45	7	164.25	7		7	
1/4	2,536.00	1/4	2,194.20	1/4	1,852.40	1/4	1,510.61	1/4	1,168.81	1/4	839.65	1/4	499.32	1/4	157.11	1/4		1/4	
1/2	2,528.88	1/2	2,187.08	1/2	1,845.28	1/2	1,503.48	1/2	1,161.69	1/2	832.80	1/2	492.20	1/2	149.98	1/2		1/2	
3/4	2,521.76	3/4	2,179.96	3/4	1,838.16	3/4	1,496.36	3/4	1,154.57	3/4	825.94	3/4	485.08	3/4	142.85	3/4		3/4	
8	2,514.64	8	2,172.84	8	1,831.04	8	1,489.24	8	1,147.44	8	819.09	8	477.96	8	135.71	8		8	
1/4	2,507.52	1/4	2,165.72	1/4	1,823.92	1/4	1,482.12	1/4	1,140.32	1/4	812.23	1/4	470.83	1/4	128.58	1/4		1/4	
1/2	2,500.40	1/2	2,158.60	1/2	1,816.80	1/2	1,475.00	1/2	1,133.20	1/2	805.23	1/2	463.71	1/2	121.45	1/2		1/2	
3/4	2,493.28	3/4	2,151.48	3/4	1,809.68	3/4	1,467.88	3/4	1,126.08	3/4	798.22	3/4	456.59	3/4	114.33	3/4		3/4	
9	2,486.16	9	2,144.36	9	1,802.56	9	1,460.76	9	1,119.31	9	791.21	9	449.47	9	107.20	9		9	
1/4	2,479.03	1/4	2,137.24	1/4	1,795.44	1/4	1,453.64	1/4	1,112.30	1/4	784.21	1/4	442.35	1/4	100.07	1/4		1/4	
1/2	2,471.91	1/2	2,130.12	1/2	1,788.32	1/2	1,446.52	1/2	1,105.45	1/2	777.09	1/2	435.22	1/2	92.96	1/2		1/2	
3/4	2,464.79	3/4	2,122.99	3/4	1,781.20	3/4	1,439.40	3/4	1,098.59	3/4	769.96	3/4	428.10	3/4	85.85	3/4		3/4	
10	2,457.67	10	2,115.87	10	1,774.08	10	1,432.28	10	1,091.74	10	762.84	10	420.98	10	78.74	10		10	
1/4	2,450.55	1/4	2,108.75	1/4	1,766.95	1/4	1,425.16	1/4	1,084.89	1/4	755.72	1/4	413.86	1/4	71.63	1/4		1/4	
1/2	2,443.43	1/2	2,101.63	1/2	1,759.83	1/2	1,418.04	1/2	1,078.07	1/2	748.60	1/2	406.74	1/2	64.96	1/2		1/2	
3/4	2,436.31	3/4	2,094.51	3/4	1,752.71	3/4	1,410.91	3/4	1,071.26	3/4	741.47	3/4	399.61	3/4	58.29	3/4		3/4	
11	2,429.19	11	2,087.39	11	1,745.59	11	1,403.79	11	1,064.44	11	734.35	11	392.49	11	51.62	11		11	
1/4	2,422.07	1/4	2,080.27	1/4	1,738.47	1/4	1,396.67	1/4	1,057.63	1/4	727.23	1/4	385.37	1/4	44.95	1/4		1/4	
1/2	2,414.95	1/2	2,073.15	1/2	1,731.35	1/2	1,389.55	1/2	1,050.81	1/2	720.11	1/2	378.24	1/2	39.60	1/2		1/2	
3/4	2,407.83	3/4	2,066.03	3/4	1,724.23	3/4	1,382.43	3/4	1,044.00	3/4	712.99	3/4	371.11	3/4	34.25	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 3 STBD ULLAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0	4,414.07	0	4,244.54	0	4,035.55	0	3,826.07	0	3,616.16	0	3,406.25	0	3,093.09
1/4		1/4		1/4		1/4	4,412.36	1/4	4,240.19	1/4	4,031.19	1/4	3,821.69	1/4	3,611.79	1/4	3,401.89	1/4	3,085.98
1/2		1/2		1/2		1/2	4,410.66	1/2	4,235.83	1/2	4,026.84	1/2	3,817.32	1/2	3,607.41	1/2	3,397.54	1/2	3,078.87
3/4		3/4		3/4		3/4	4,408.95	3/4	4,231.48	3/4	4,022.49	3/4	3,812.95	3/4	3,603.04	3/4	3,393.18	3/4	3,071.76
1		1		1		1	4,407.24	1	4,227.12	1	4,018.13	1	3,808.57	1	3,598.67	1	3,388.83	1	3,064.64
1/4		1/4		1/4		1/4	4,405.53	1/4	4,222.77	1/4	4,013.78	1/4	3,804.20	1/4	3,594.29	1/4	3,384.49	1/4	3,057.53
1/2		1/2		1/2		1/2	4,403.82	1/2	4,218.42	1/2	4,009.42	1/2	3,799.83	1/2	3,589.92	1/2	3,380.15	1/2	3,050.42
3/4		3/4		3/4		3/4	4,402.11	3/4	4,214.06	3/4	4,005.07	3/4	3,795.46	3/4	3,585.55	3/4	3,375.82	3/4	3,043.31
2		2		2		2	4,400.41	2	4,209.71	2	4,000.72	2	3,791.08	2	3,581.17	2	3,371.48	2	3,036.19
1/4		1/4		1/4		1/4	4,398.43	1/4	4,205.35	1/4	3,996.36	1/4	3,786.71	1/4	3,576.80	1/4	3,365.76	1/4	3,029.08
1/2		1/2		1/2		1/2	4,396.45	1/2	4,201.00	1/2	3,992.01	1/2	3,782.34	1/2	3,572.43	1/2	3,360.05	1/2	3,021.97
3/4		3/4		3/4		3/4	4,394.47	3/4	4,196.65	3/4	3,987.65	3/4	3,777.96	3/4	3,568.05	3/4	3,354.33	3/4	3,014.86
3		3		3		3	4,392.50	3	4,192.29	3	3,983.30	3	3,773.59	3	3,563.68	3	3,348.61	3	3,007.74
1/4		1/4		1/4		1/4	4,389.65	1/4	4,187.94	1/4	3,978.95	1/4	3,769.22	1/4	3,559.31	1/4	3,341.52	1/4	3,000.63
1/2		1/2		1/2		1/2	4,386.81	1/2	4,183.58	1/2	3,974.59	1/2	3,764.84	1/2	3,554.94	1/2	3,334.42	1/2	2,993.52
3/4		3/4		3/4		3/4	4,383.97	3/4	4,179.23	3/4	3,970.24	3/4	3,760.47	3/4	3,550.56	3/4	3,327.33	3/4	2,986.41
4		4		4		4	4,381.13	4	4,174.88	4	3,965.88	4	3,756.10	4	3,546.19	4	3,320.23	4	2,979.30
1/4		1/4		1/4		1/4	4,377.29	1/4	4,170.52	1/4	3,961.53	1/4	3,751.72	1/4	3,541.82	1/4	3,313.14	1/4	2,972.18
1/2		1/2		1/2		1/2	4,373.44	1/2	4,166.17	1/2	3,957.18	1/2	3,747.35	1/2	3,537.44	1/2	3,306.04	1/2	2,965.07
3/4		3/4		3/4		3/4	4,369.59	3/4	4,161.81	3/4	3,952.82	3/4	3,742.98	3/4	3,533.07	3/4	3,298.95	3/4	2,957.96
5		5		5		5	4,365.75	5	4,157.46	5	3,948.47	5	3,738.61	5	3,528.70	5	3,291.85	5	2,950.85
1/4		1/4		1/4		1/4	4,361.46	1/4	4,153.11	1/4	3,944.11	1/4	3,734.23	1/4	3,524.32	1/4	3,284.76	1/4	2,943.73
1/2		1/2		1/2		1/2	4,357.18	1/2	4,148.75	1/2	3,939.74	1/2	3,729.86	1/2	3,519.95	1/2	3,277.66	1/2	2,936.62
3/4		3/4		3/4		3/4	4,352.89	3/4	4,144.40	3/4	3,935.38	3/4	3,725.49	3/4	3,515.58	3/4	3,270.57	3/4	2,929.51
6		6		6		6	4,348.61	6	4,140.04	6	3,931.02	6	3,721.11	6	3,511.20	6	3,263.47	6	2,922.40
1/4		1/4		1/4		1/4	4,344.29	1/4	4,135.69	1/4	3,926.65	1/4	3,716.74	1/4	3,506.83	1/4	3,256.38	1/4	2,915.28
1/2		1/2		1/2		1/2	4,339.97	1/2	4,131.34	1/2	3,922.28	1/2	3,712.37	1/2	3,502.46	1/2	3,249.28	1/2	2,908.17
3/4		3/4		3/4		3/4	4,335.65	3/4	4,126.98	3/4	3,917.90	3/4	3,707.99	3/4	3,498.08	3/4	3,242.19	3/4	2,901.06
7		7		7		7	4,331.34	7	4,122.63	7	3,913.53	7	3,703.62	7	3,493.71	7	3,235.09	7	2,893.95
1/4		1/4		1/4		1/4	4,327.01	1/4	4,118.27	1/4	3,909.16	1/4	3,699.25	1/4	3,489.34	1/4	3,228.00	1/4	2,886.84
1/2		1/2		1/2		1/2	4,322.69	1/2	4,113.92	1/2	3,904.78	1/2	3,694.87	1/2	3,484.97	1/2	3,220.90	1/2	2,879.72
3/4		3/4		3/4		3/4	4,318.36	3/4	4,109.57	3/4	3,900.41	3/4	3,690.50	3/4	3,480.59	3/4	3,213.81	3/4	2,872.61
8		8		8		8	4,314.04	8	4,105.21	8	3,896.04	8	3,686.13	8	3,476.22	8	3,206.71	8	2,865.50
1/4		1/4		1/4		1/4	4,309.71	1/4	4,100.86	1/4	3,891.66	1/4	3,681.75	1/4	3,471.85	1/4	3,199.62	1/4	2,858.39
1/2		1/2		1/2		1/2	4,305.38	1/2	4,096.50	1/2	3,887.29	1/2	3,677.38	1/2	3,467.47	1/2	3,192.52	1/2	2,851.27
3/4		3/4		3/4		3/4	4,301.06	3/4	4,092.15	3/4	3,882.92	3/4	3,673.01	3/4	3,463.10	3/4	3,185.43	3/4	2,844.16
9		9		9		9	4,296.73	9	4,087.80	9	3,878.54	9	3,668.64	9	3,458.73	9	3,178.33	9	2,837.05
1/4		1/4		1/4		1/4	4,292.39	1/4	4,083.44	1/4	3,874.17	1/4	3,664.26	1/4	3,454.35	1/4	3,171.24	1/4	2,829.94
1/2		1/2		1/2		1/2	4,288.05	1/2	4,079.09	1/2	3,869.80	1/2	3,659.89	1/2	3,449.98	1/2	3,164.14	1/2	2,822.82
3/4		3/4		3/4		3/4	4,283.71	3/4	4,074.73	3/4	3,865.43	3/4	3,655.52	3/4	3,445.61	3/4	3,157.05	3/4	2,815.71
10		10		10		10	4,279.37	10	4,070.38	10	3,861.05	10	3,651.14	10	3,441.23	10	3,149.95	10	2,808.60
1/4		1/4		1/4		1/4	4,275.02	1/4	4,066.03	1/4	3,856.68	1/4	3,646.77	1/4	3,436.86	1/4	3,142.85	1/4	2,801.49
1/2		1/2		1/2		1/2	4,270.66	1/2	4,061.67	1/2	3,852.31	1/2	3,642.40	1/2	3,432.49	1/2	3,135.75	1/2	2,794.38
3/4		3/4		3/4		3/4	4,266.31	3/4	4,057.32	3/4	3,847.93	3/4	3,638.02	3/4	3,428.12	3/4	3,128.64	3/4	2,787.26
11		11		11	4,418.38	11	4,261.96	11	4,052.96	11	3,843.56	11	3,633.65	11	3,423.74	11	3,121.54	11	2,780.15
1/4		1/4		1/4	4,417.30	1/4	4,257.60	1/4	4,048.61	1/4	3,839.19	1/4	3,629.28	1/4	3,419.37	1/4	3,114.43	1/4	2,773.04
1/2		1/2		1/2	4,416.23	1/2	4,253.25	1/2	4,044.26	1/2	3,834.81	1/2	3,624.90	1/2	3,415.00	1/2	3,107.32	1/2	2,765.93
3/4		3/4		3/4	4,415.15	3/4	4,248.89	3/4	4,039.90	3/4	3,830.44	3/4	3,620.53	3/4	3,410.62	3/4	3,100.20	3/4	2,758.81

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "MPX 421"

## 3 STBD

### ULLAGE TABLE

### 10" HATCH

### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,751.70	0	2,409.75	0	2,067.49	0	1,725.22	0	1,382.96	0	1,040.80	0	698.94	0	356.68	0	23.54	0	
1/4	2,744.59	1/4	2,402.62	1/4	2,060.36	1/4	1,718.09	1/4	1,375.83	1/4	1,033.69	1/4	691.81	1/4	349.55	1/4	19.97	1/4	
1/2	2,737.48	1/2	2,395.49	1/2	2,053.23	1/2	1,710.96	1/2	1,368.70	1/2	1,026.57	1/2	684.68	1/2	342.42	1/2	16.41	1/2	
3/4	2,730.36	3/4	2,388.36	3/4	2,046.10	3/4	1,703.83	3/4	1,361.57	3/4	1,019.45	3/4	677.55	3/4	335.29	3/4	12.84	3/4	
1	2,723.25	1	2,381.23	1	2,038.97	1	1,696.70	1	1,354.44	1	1,012.34	1	670.41	1	328.16	1	9.28	1	
1/4	2,716.14	1/4	2,374.10	1/4	2,031.84	1/4	1,689.57	1/4	1,347.31	1/4	1,005.22	1/4	663.28	1/4	321.03	1/4	7.50	1/4	
1/2	2,709.03	1/2	2,366.97	1/2	2,024.70	1/2	1,682.44	1/2	1,340.18	1/2	998.10	1/2	656.15	1/2	313.90	1/2	5.71	1/2	
3/4	2,701.92	3/4	2,359.84	3/4	2,017.57	3/4	1,675.31	3/4	1,333.05	3/4	990.99	3/4	649.02	3/4	306.77	3/4	3.93	3/4	
2	2,694.80	2	2,352.71	2	2,010.44	2	1,668.18	2	1,325.92	2	983.87	2	641.89	2	299.64	2	2.15	2	
1/4	2,687.69	1/4	2,345.58	1/4	2,003.31	1/4	1,661.05	1/4	1,318.79	1/4	976.75	1/4	634.76	1/4	292.51	1/4		1/4	
1/2	2,680.58	1/2	2,338.45	1/2	1,996.18	1/2	1,653.92	1/2	1,311.65	1/2	969.64	1/2	627.63	1/2	285.38	1/2		1/2	
3/4	2,673.47	3/4	2,331.32	3/4	1,989.05	3/4	1,646.79	3/4	1,304.52	3/4	962.52	3/4	620.50	3/4	278.25	3/4		3/4	
3	2,666.35	3	2,324.19	3	1,981.92	3	1,639.66	3	1,297.39	3	955.41	3	613.37	3	271.12	3		3	
1/4	2,659.24	1/4	2,317.06	1/4	1,974.79	1/4	1,632.53	1/4	1,290.26	1/4	948.29	1/4	606.24	1/4	263.99	1/4		1/4	
1/2	2,652.13	1/2	2,309.92	1/2	1,967.66	1/2	1,625.40	1/2	1,283.13	1/2	941.17	1/2	599.11	1/2	256.86	1/2		1/2	
3/4	2,645.02	3/4	2,302.79	3/4	1,960.53	3/4	1,618.27	3/4	1,276.00	3/4	934.06	3/4	591.98	3/4	249.73	3/4		3/4	
4	2,637.90	4	2,295.66	4	1,953.40	4	1,611.14	4	1,268.87	4	926.94	4	584.85	4	242.60	4		4	
1/4	2,630.78	1/4	2,288.53	1/4	1,946.27	1/4	1,604.01	1/4	1,261.74	1/4	919.82	1/4	577.72	1/4	235.47	1/4		1/4	
1/2	2,623.66	1/2	2,281.40	1/2	1,939.14	1/2	1,596.87	1/2	1,254.61	1/2	912.71	1/2	570.59	1/2	228.34	1/2		1/2	
3/4	2,616.54	3/4	2,274.27	3/4	1,932.01	3/4	1,589.74	3/4	1,247.48	3/4	905.59	3/4	563.46	3/4	221.21	3/4		3/4	
5	2,609.42	5	2,267.14	5	1,924.88	5	1,582.61	5	1,240.35	5	898.47	5	556.33	5	214.08	5		5	
1/4	2,602.29	1/4	2,260.01	1/4	1,917.75	1/4	1,575.48	1/4	1,233.22	1/4	891.36	1/4	549.20	1/4	206.95	1/4		1/4	
1/2	2,595.16	1/2	2,252.88	1/2	1,910.62	1/2	1,568.35	1/2	1,226.09	1/2	884.24	1/2	542.07	1/2	199.82	1/2		1/2	
3/4	2,588.02	3/4	2,245.75	3/4	1,903.49	3/4	1,561.22	3/4	1,218.96	3/4	877.13	3/4	534.94	3/4	192.68	3/4		3/4	
6	2,580.89	6	2,238.62	6	1,896.36	6	1,554.09	6	1,211.83	6	870.01	6	527.81	6	185.55	6		6	
1/4	2,573.76	1/4	2,231.49	1/4	1,889.23	1/4	1,546.96	1/4	1,204.70	1/4	862.89	1/4	520.68	1/4	178.42	1/4		1/4	
1/2	2,566.63	1/2	2,224.36	1/2	1,882.09	1/2	1,539.83	1/2	1,197.57	1/2	855.77	1/2	513.55	1/2	171.29	1/2		1/2	
3/4	2,559.50	3/4	2,217.23	3/4	1,874.96	3/4	1,532.70	3/4	1,190.44	3/4	848.65	3/4	506.42	3/4	164.16	3/4		3/4	
7	2,552.37	7	2,210.10	7	1,867.83	7	1,525.57	7	1,183.31	7	841.53	7	499.29	7	157.03	7		7	
1/4	2,545.24	1/4	2,202.97	1/4	1,860.70	1/4	1,518.44	1/4	1,176.18	1/4	834.40	1/4	492.16	1/4	149.90	1/4		1/4	
1/2	2,538.10	1/2	2,195.84	1/2	1,853.57	1/2	1,511.31	1/2	1,169.04	1/2	827.27	1/2	485.03	1/2	142.77	1/2		1/2	
3/4	2,530.97	3/4	2,188.71	3/4	1,846.44	3/4	1,504.18	3/4	1,161.91	3/4	820.15	3/4	477.90	3/4	135.64	3/4		3/4	
8	2,523.84	8	2,181.58	8	1,839.31	8	1,497.05	8	1,154.78	8	813.02	8	470.77	8	128.52	8		8	
1/4	2,516.71	1/4	2,174.45	1/4	1,832.18	1/4	1,489.92	1/4	1,147.65	1/4	805.89	1/4	463.64	1/4	121.39	1/4		1/4	
1/2	2,509.58	1/2	2,167.31	1/2	1,825.05	1/2	1,482.79	1/2	1,140.52	1/2	798.76	1/2	456.51	1/2	114.27	1/2		1/2	
3/4	2,502.45	3/4	2,160.18	3/4	1,817.92	3/4	1,475.66	3/4	1,133.39	3/4	791.63	3/4	449.38	3/4	107.14	3/4		3/4	
9	2,495.32	9	2,153.05	9	1,810.79	9	1,468.53	9	1,126.26	9	784.50	9	442.25	9	100.02	9		9	
1/4	2,488.19	1/4	2,145.92	1/4	1,803.66	1/4	1,461.40	1/4	1,119.13	1/4	777.37	1/4	435.11	1/4	92.91	1/4		1/4	
1/2	2,481.06	1/2	2,138.79	1/2	1,796.53	1/2	1,454.26	1/2	1,112.01	1/2	770.24	1/2	427.98	1/2	85.80	1/2		1/2	
3/4	2,473.93	3/4	2,131.66	3/4	1,789.40	3/4	1,447.13	3/4	1,104.88	3/4	763.11	3/4	420.85	3/4	78.70	3/4		3/4	
10	2,466.80	10	2,124.53	10	1,782.27	10	1,440.00	10	1,097.75	10	755.98	10	413.72	10	71.59	10		10	
1/4	2,459.67	1/4	2,117.40	1/4	1,775.14	1/4	1,432.87	1/4	1,090.63	1/4	748.85	1/4	406.59	1/4	64.92	1/4		1/4	
1/2	2,452.53	1/2	2,110.27	1/2	1,768.01	1/2	1,425.74	1/2	1,083.51	1/2	741.72	1/2	399.46	1/2	58.26	1/2		1/2	
3/4	2,445.40	3/4	2,103.14	3/4	1,760.88	3/4	1,418.61	3/4	1,076.39	3/4	734.59	3/4	392.33	3/4	51.59	3/4		3/4	
11	2,438.27	11	2,096.01	11	1,753.75	11	1,411.48	11	1,069.27	11	727.46	11	385.20	11	44.93	11		11	
1/4	2,431.14	1/4	2,088.88	1/4	1,746.62	1/4	1,404.35	1/4	1,062.15	1/4	720.33	1/4	378.07	1/4	39.58	1/4		1/4	
1/2	2,424.01	1/2	2,081.75	1/2	1,739.48	1/2	1,397.22	1/2	1,055.04	1/2	713.20	1/2	370.94	1/2	34.23	1/2		1/2	
3/4	2,416.88	3/4	2,074.62	3/4	1,732.35	3/4	1,390.09	3/4	1,047.92	3/4	706.07	3/4	363.81	3/4	28.89	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## INNAGE (10" HATCH)

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
1 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-0/8	- 06-0/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 PORT	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
2 STBD	02-0/8	- 02-0/8	04-0/8	- 04-0/8	06-1/8	- 06-1/8	08-1/8	- 08-1/8	10-1/8	- 10-1/8	12-1/8	- 12-1/8
3 PORT	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8
3 STBD	- 02-0/8	02-0/8	- 04-0/8	04-0/8	- 06-0/8	06-0/8	- 08-0/8	08-0/8	- 10-1/8	10-1/8	- 12-1/8	12-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

THE CORRECTION FOR 4'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 08-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 3'-03 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

June 30, 2021

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**  
 P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MPX 421"

## 1 PORT INNAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	252.35	0	583.51	0	925.39	0	1,267.53	0	1,610.86	0	1,954.19	0	2,297.52	0	2,640.83	0	2,984.14
1/4	3.94	1/4	258.83	1/4	590.66	1/4	932.48	1/4	1,274.68	1/4	1,618.01	1/4	1,961.34	1/4	2,304.67	1/4	2,647.99	1/4	2,991.29
1/2	5.73	1/2	265.32	1/2	597.81	1/2	939.58	1/2	1,281.83	1/2	1,625.16	1/2	1,968.49	1/2	2,311.82	1/2	2,655.14	1/2	2,998.44
3/4	7.52	3/4	271.80	3/4	604.97	3/4	946.67	3/4	1,288.99	3/4	1,632.31	3/4	1,975.64	3/4	2,318.97	3/4	2,662.29	3/4	3,005.59
1	9.31	1	278.28	1	612.12	1	953.76	1	1,296.14	1	1,639.47	1	1,982.80	1	2,326.13	1	2,669.44	1	3,012.75
1/4	12.11	1/4	284.85	1/4	619.27	1/4	960.85	1/4	1,303.29	1/4	1,646.62	1/4	1,989.95	1/4	2,333.28	1/4	2,676.59	1/4	3,019.90
1/2	14.91	1/2	291.42	1/2	626.42	1/2	967.94	1/2	1,310.44	1/2	1,653.77	1/2	1,997.10	1/2	2,340.43	1/2	2,683.75	1/2	3,027.05
3/4	17.72	3/4	297.99	3/4	633.58	3/4	975.04	3/4	1,317.60	3/4	1,660.93	3/4	2,004.26	3/4	2,347.58	3/4	2,690.90	3/4	3,034.20
2	20.52	2	304.55	2	640.73	2	982.13	2	1,324.75	2	1,668.08	2	2,011.41	2	2,354.74	2	2,698.05	2	3,041.35
1/4	24.38	1/4	311.21	1/4	647.88	1/4	989.22	1/4	1,331.90	1/4	1,675.23	1/4	2,018.56	1/4	2,361.89	1/4	2,705.20	1/4	3,048.50
1/2	28.24	1/2	317.86	1/2	655.03	1/2	996.31	1/2	1,339.05	1/2	1,682.38	1/2	2,025.71	1/2	2,369.04	1/2	2,712.36	1/2	3,055.65
3/4	32.10	3/4	324.51	3/4	662.19	3/4	1,003.40	3/4	1,346.21	3/4	1,689.54	3/4	2,032.87	3/4	2,376.20	3/4	2,719.51	3/4	3,062.80
3	35.96	3	331.16	3	669.34	3	1,010.50	3	1,353.36	3	1,696.69	3	2,040.02	3	2,383.35	3	2,726.66	3	3,069.95
1/4	41.22	1/4	337.89	1/4	676.49	1/4	1,017.59	1/4	1,360.51	1/4	1,703.84	1/4	2,047.17	1/4	2,390.50	1/4	2,733.81	1/4	3,077.10
1/2	46.49	1/2	344.63	1/2	683.64	1/2	1,024.69	1/2	1,367.66	1/2	1,710.99	1/2	2,054.32	1/2	2,397.65	1/2	2,740.96	1/2	3,084.25
3/4	51.75	3/4	351.36	3/4	690.80	3/4	1,031.79	3/4	1,374.82	3/4	1,718.15	3/4	2,061.48	3/4	2,404.81	3/4	2,748.12	3/4	3,091.40
4	57.02	4	358.10	4	697.95	4	1,038.88	4	1,381.97	4	1,725.30	4	2,068.63	4	2,411.96	4	2,755.27	4	3,098.55
1/4	62.81	1/4	364.92	1/4	705.10	1/4	1,045.99	1/4	1,389.12	1/4	1,732.45	1/4	2,075.78	1/4	2,419.11	1/4	2,762.42	1/4	3,105.70
1/2	68.60	1/2	371.73	1/2	712.25	1/2	1,053.10	1/2	1,396.28	1/2	1,739.61	1/2	2,082.93	1/2	2,426.26	1/2	2,769.57	1/2	3,112.85
3/4	74.40	3/4	378.55	3/4	719.41	3/4	1,060.21	3/4	1,403.43	3/4	1,746.76	3/4	2,090.09	3/4	2,433.42	3/4	2,776.73	3/4	3,120.00
5	80.19	5	385.37	5	726.56	5	1,067.32	5	1,410.58	5	1,753.91	5	2,097.24	5	2,440.57	5	2,783.88	5	3,127.15
1/4	86.08	1/4	392.27	1/4	733.69	1/4	1,074.46	1/4	1,417.73	1/4	1,761.06	1/4	2,104.39	1/4	2,447.72	1/4	2,791.03	1/4	3,134.30
1/2	91.97	1/2	399.17	1/2	740.83	1/2	1,081.59	1/2	1,424.89	1/2	1,768.22	1/2	2,111.55	1/2	2,454.88	1/2	2,798.18	1/2	3,141.45
3/4	97.87	3/4	406.08	3/4	747.96	3/4	1,088.73	3/4	1,432.04	3/4	1,775.37	3/4	2,118.70	3/4	2,462.03	3/4	2,805.33	3/4	3,148.60
6	103.76	6	412.98	6	755.10	6	1,095.86	6	1,439.19	6	1,782.52	6	2,125.85	6	2,469.18	6	2,812.49	6	3,155.75
1/4	109.74	1/4	419.96	1/4	762.21	1/4	1,103.02	1/4	1,446.34	1/4	1,789.67	1/4	2,133.00	1/4	2,476.33	1/4	2,819.64	1/4	3,162.90
1/2	115.72	1/2	426.94	1/2	769.32	1/2	1,110.17	1/2	1,453.50	1/2	1,796.83	1/2	2,140.16	1/2	2,483.49	1/2	2,826.79	1/2	3,170.05
3/4	121.70	3/4	433.93	3/4	776.43	3/4	1,117.32	3/4	1,460.65	3/4	1,803.98	3/4	2,147.31	3/4	2,490.64	3/4	2,833.94	3/4	3,177.20
7	127.69	7	440.91	7	783.53	7	1,124.47	7	1,467.80	7	1,811.13	7	2,154.46	7	2,497.79	7	2,841.10	7	3,184.35
1/4	133.75	1/4	447.97	1/4	790.63	1/4	1,131.63	1/4	1,474.96	1/4	1,818.29	1/4	2,161.61	1/4	2,504.94	1/4	2,848.25	1/4	3,191.50
1/2	139.82	1/2	455.04	1/2	797.73	1/2	1,138.78	1/2	1,482.11	1/2	1,825.44	1/2	2,168.77	1/2	2,512.10	1/2	2,855.40	1/2	3,198.65
3/4	145.88	3/4	462.10	3/4	804.82	3/4	1,145.93	3/4	1,489.26	3/4	1,832.59	3/4	2,175.92	3/4	2,519.25	3/4	2,862.55	3/4	3,205.80
8	151.95	8	469.16	8	811.92	8	1,153.08	8	1,496.41	8	1,839.74	8	2,183.07	8	2,526.40	8	2,869.70	8	3,212.95
1/4	158.10	1/4	476.29	1/4	819.01	1/4	1,160.24	1/4	1,503.57	1/4	1,846.90	1/4	2,190.23	1/4	2,533.56	1/4	2,876.86	1/4	3,220.10
1/2	164.25	1/2	483.42	1/2	826.10	1/2	1,167.39	1/2	1,510.72	1/2	1,854.05	1/2	2,197.38	1/2	2,540.71	1/2	2,884.01	1/2	3,227.25
3/4	170.40	3/4	490.55	3/4	833.19	3/4	1,174.54	3/4	1,517.87	3/4	1,861.20	3/4	2,204.53	3/4	2,547.86	3/4	2,891.16	3/4	3,234.40
9	176.55	9	497.68	9	840.29	9	1,181.69	9	1,525.02	9	1,868.35	9	2,211.68	9	2,555.01	9	2,898.31	9	3,241.55
1/4	182.78	1/4	504.83	1/4	847.38	1/4	1,188.85	1/4	1,532.18	1/4	1,875.51	1/4	2,218.84	1/4	2,562.17	1/4	2,905.46	1/4	3,248.71
1/2	189.01	1/2	511.98	1/2	854.47	1/2	1,196.00	1/2	1,539.33	1/2	1,882.66	1/2	2,225.99	1/2	2,569.32	1/2	2,912.62	1/2	3,255.86
3/4	195.25	3/4	519.14	3/4	861.56	3/4	1,203.15	3/4	1,546.48	3/4	1,889.81	3/4	2,233.14	3/4	2,576.47	3/4	2,919.77	3/4	3,263.01
10	201.48	10	526.29	10	868.65	10	1,210.31	10	1,553.64	10	1,896.96	10	2,240.29	10	2,583.62	10	2,926.92	10	3,270.16
1/4	207.80	1/4	533.44	1/4	875.75	1/4	1,217.46	1/4	1,560.79	1/4	1,904.12	1/4	2,247.45	1/4	2,590.78	1/4	2,934.07	1/4	3,277.31
1/2	214.11	1/2	540.59	1/2	882.84	1/2	1,224.61	1/2	1,567.94	1/2	1,911.27	1/2	2,254.60	1/2	2,597.93	1/2	2,941.23	1/2	3,284.46
3/4	220.43	3/4	547.75	3/4	889.93	3/4	1,231.76	3/4	1,575.09	3/4	1,918.42	3/4	2,261.75	3/4	2,605.08	3/4	2,948.38	3/4	3,291.61
11	226.75	11	554.90	11	897.02	11	1,238.92	11	1,582.25	11	1,925.58	11	2,268.91	11	2,612.23	11	2,955.53	11	3,298.76
1/4	233.15	1/4	562.05	1/4	904.11	1/4	1,246.07	1/4	1,589.40	1/4	1,932.73	1/4	2,276.06	1/4	2,619.38	1/4	2,962.68	1/4	3,305.91
1/2	239.55	1/2	569.20	1/2	911.21	1/2	1,253.22	1/2	1,596.55	1/2	1,939.88	1/2	2,283.21	1/2	2,626.53	1/2	2,969.83	1/2	3,313.06
3/4	245.95	3/4	576.36	3/4	918.30	3/4	1,260.37	3/4	1,603.70	3/4	1,947.03	3/4	2,290.36	3/4	2,633.68	3/4	2,976.99	3/4	3,320.21

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MPX 421"

## 1 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,327.36	0	3,670.58	0	4,013.89	0	4,356.73	0	4,698.48	0	5,020.05	0		0		0		0	
1/4	3,334.51	1/4	3,677.73	1/4	4,021.04	1/4	4,363.85	1/4	4,705.59	1/4	5,023.25	1/4		1/4		1/4		1/4	
1/2	3,341.66	1/2	3,684.88	1/2	4,028.19	1/2	4,370.97	1/2	4,712.71	1/2	5,026.45	1/2		1/2		1/2		1/2	
3/4	3,348.81	3/4	3,692.03	3/4	4,035.35	3/4	4,378.09	3/4	4,719.83	3/4	5,029.65	3/4		3/4		3/4		3/4	
1	3,355.96	1	3,699.19	1	4,042.50	1	4,385.21	1	4,726.95	1	5,032.85	1		1		1		1	
1/4	3,363.11	1/4	3,706.34	1/4	4,049.65	1/4	4,392.33	1/4	4,734.07	1/4	5,034.86	1/4		1/4		1/4		1/4	
1/2	3,370.26	1/2	3,713.49	1/2	4,056.80	1/2	4,399.45	1/2	4,741.19	1/2	5,036.86	1/2		1/2		1/2		1/2	
3/4	3,377.41	3/4	3,720.64	3/4	4,063.95	3/4	4,406.57	3/4	4,748.31	3/4	5,038.87	3/4		3/4		3/4		3/4	
2	3,384.56	2	3,727.80	2	4,071.11	2	4,413.69	2	4,755.43	2	5,040.88	2		2		2		2	
1/4	3,391.71	1/4	3,734.95	1/4	4,078.26	1/4	4,420.81	1/4	4,762.55	1/4	5,041.81	1/4		1/4		1/4		1/4	
1/2	3,398.86	1/2	3,742.10	1/2	4,085.41	1/2	4,427.93	1/2	4,769.67	1/2	5,042.74	1/2		1/2		1/2		1/2	
3/4	3,406.01	3/4	3,749.25	3/4	4,092.56	3/4	4,435.05	3/4	4,776.79	3/4	5,043.67	3/4		3/4		3/4		3/4	
3	3,413.16	3	3,756.41	3	4,099.72	3	4,442.17	3	4,783.91	3	5,044.60	3		3		3		3	
1/4	3,420.31	1/4	3,763.56	1/4	4,106.87	1/4	4,449.29	1/4	4,791.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,427.46	1/2	3,770.71	1/2	4,114.02	1/2	4,456.41	1/2	4,798.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,434.61	3/4	3,777.86	3/4	4,121.17	3/4	4,463.53	3/4	4,805.27	3/4		3/4		3/4		3/4		3/4	
4	3,441.76	4	3,785.01	4	4,128.33	4	4,470.65	4	4,812.39	4		4		4		4		4	
1/4	3,448.91	1/4	3,792.17	1/4	4,135.48	1/4	4,477.77	1/4	4,819.48	1/4		1/4		1/4		1/4		1/4	
1/2	3,456.06	1/2	3,799.32	1/2	4,142.63	1/2	4,484.89	1/2	4,826.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,463.21	3/4	3,806.47	3/4	4,149.78	3/4	4,492.01	3/4	4,833.68	3/4		3/4		3/4		3/4		3/4	
5	3,470.36	5	3,813.62	5	4,156.93	5	4,499.13	5	4,840.77	5		5		5		5		5	
1/4	3,477.51	1/4	3,820.78	1/4	4,164.09	1/4	4,506.25	1/4	4,847.85	1/4		1/4		1/4		1/4		1/4	
1/2	3,484.66	1/2	3,827.93	1/2	4,171.24	1/2	4,513.37	1/2	4,854.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,491.82	3/4	3,835.08	3/4	4,178.39	3/4	4,520.49	3/4	4,862.00	3/4		3/4		3/4		3/4		3/4	
6	3,498.97	6	3,842.23	6	4,185.54	6	4,527.60	6	4,869.07	6		6		6		6		6	
1/4	3,506.12	1/4	3,849.39	1/4	4,192.70	1/4	4,534.72	1/4	4,876.15	1/4		1/4		1/4		1/4		1/4	
1/2	3,513.27	1/2	3,856.54	1/2	4,199.85	1/2	4,541.84	1/2	4,883.22	1/2		1/2		1/2		1/2		1/2	
3/4	3,520.42	3/4	3,863.69	3/4	4,207.00	3/4	4,548.96	3/4	4,890.29	3/4		3/4		3/4		3/4		3/4	
7	3,527.57	7	3,870.84	7	4,214.15	7	4,556.08	7	4,897.37	7		7		7		7		7	
1/4	3,534.72	1/4	3,877.99	1/4	4,221.31	1/4	4,563.20	1/4	4,904.44	1/4		1/4		1/4		1/4		1/4	
1/2	3,541.87	1/2	3,885.15	1/2	4,228.46	1/2	4,570.32	1/2	4,911.50	1/2		1/2		1/2		1/2		1/2	
3/4	3,549.02	3/4	3,892.30	3/4	4,235.61	3/4	4,577.44	3/4	4,918.57	3/4		3/4		3/4		3/4		3/4	
8	3,556.17	8	3,899.45	8	4,242.76	8	4,584.56	8	4,925.64	8		8		8		8		8	
1/4	3,563.32	1/4	3,906.60	1/4	4,249.90	1/4	4,591.68	1/4	4,932.67	1/4		1/4		1/4		1/4		1/4	
1/2	3,570.47	1/2	3,913.76	1/2	4,257.03	1/2	4,598.80	1/2	4,939.70	1/2		1/2		1/2		1/2		1/2	
3/4	3,577.62	3/4	3,920.91	3/4	4,264.16	3/4	4,605.92	3/4	4,946.74	3/4		3/4		3/4		3/4		3/4	
9	3,584.77	9	3,928.06	9	4,271.30	9	4,613.04	9	4,953.77	9		9		9		9		9	
1/4	3,591.92	1/4	3,935.21	1/4	4,278.42	1/4	4,620.16	1/4	4,960.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,599.07	1/2	3,942.37	1/2	4,285.54	1/2	4,627.28	1/2	4,966.95	1/2		1/2		1/2		1/2		1/2	
3/4	3,606.22	3/4	3,949.52	3/4	4,292.66	3/4	4,634.40	3/4	4,973.55	3/4		3/4		3/4		3/4		3/4	
10	3,613.37	10	3,956.67	10	4,299.78	10	4,641.52	10	4,980.14	10		10		10		10		10	
1/4	3,620.52	1/4	3,963.82	1/4	4,306.90	1/4	4,648.64	1/4	4,985.73	1/4		1/4		1/4		1/4		1/4	
1/2	3,627.67	1/2	3,970.97	1/2	4,314.02	1/2	4,655.76	1/2	4,991.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,634.82	3/4	3,978.13	3/4	4,321.14	3/4	4,662.88	3/4	4,996.89	3/4		3/4		3/4		3/4		3/4	
11	3,641.97	11	3,985.28	11	4,328.26	11	4,670.00	11	5,002.48	11		11		11		11		11	
1/4	3,649.12	1/4	3,992.43	1/4	4,335.38	1/4	4,677.12	1/4	5,006.87	1/4		1/4		1/4		1/4		1/4	
1/2	3,656.27	1/2	3,999.58	1/2	4,342.50	1/2	4,684.24	1/2	5,011.26	1/2		1/2		1/2		1/2		1/2	
3/4	3,663.43	3/4	4,006.74	3/4	4,349.61	3/4	4,691.36	3/4	5,015.66	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 1 STBD INNAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	251.91	0	582.57	0	925.17	0	1,267.83	0	1,610.60	0	1,953.38	0	2,296.16	0	2,638.94	0	2,981.70
1/4	3.94	1/4	258.38	1/4	589.71	1/4	932.31	1/4	1,274.97	1/4	1,617.75	1/4	1,960.52	1/4	2,303.30	1/4	2,646.08	1/4	2,988.84
1/2	5.72	1/2	264.85	1/2	596.85	1/2	939.44	1/2	1,282.11	1/2	1,624.89	1/2	1,967.66	1/2	2,310.44	1/2	2,653.22	1/2	2,995.98
3/4	7.51	3/4	271.33	3/4	603.99	3/4	946.57	3/4	1,289.25	3/4	1,632.03	3/4	1,974.81	3/4	2,317.58	3/4	2,660.36	3/4	3,003.12
1	9.29	1	277.80	1	611.13	1	953.70	1	1,296.39	1	1,639.17	1	1,981.95	1	2,324.72	1	2,667.50	1	3,010.26
1/4	12.09	1/4	284.36	1/4	618.27	1/4	960.84	1/4	1,303.53	1/4	1,646.31	1/4	1,989.09	1/4	2,331.87	1/4	2,674.65	1/4	3,017.40
1/2	14.89	1/2	290.91	1/2	625.42	1/2	967.97	1/2	1,310.67	1/2	1,653.45	1/2	1,996.23	1/2	2,339.01	1/2	2,681.79	1/2	3,024.54
3/4	17.69	3/4	297.47	3/4	632.56	3/4	975.10	3/4	1,317.82	3/4	1,660.59	3/4	2,003.37	3/4	2,346.15	3/4	2,688.93	3/4	3,031.68
2	20.48	2	304.03	2	639.70	2	982.23	2	1,324.96	2	1,667.73	2	2,010.51	2	2,353.29	2	2,696.07	2	3,038.81
1/4	24.34	1/4	310.67	1/4	646.84	1/4	989.37	1/4	1,332.10	1/4	1,674.88	1/4	2,017.65	1/4	2,360.43	1/4	2,703.21	1/4	3,045.95
1/2	28.19	1/2	317.31	1/2	653.98	1/2	996.50	1/2	1,339.24	1/2	1,682.02	1/2	2,024.79	1/2	2,367.57	1/2	2,710.35	1/2	3,053.09
3/4	32.04	3/4	323.95	3/4	661.12	3/4	1,003.63	3/4	1,346.38	3/4	1,689.16	3/4	2,031.94	3/4	2,374.71	3/4	2,717.49	3/4	3,060.23
3	35.89	3	330.59	3	668.26	3	1,010.76	3	1,353.52	3	1,696.30	3	2,039.08	3	2,381.85	3	2,724.63	3	3,067.37
1/4	41.15	1/4	337.31	1/4	675.40	1/4	1,017.90	1/4	1,360.66	1/4	1,703.44	1/4	2,046.22	1/4	2,389.00	1/4	2,731.77	1/4	3,074.51
1/2	46.40	1/2	344.03	1/2	682.54	1/2	1,025.04	1/2	1,367.80	1/2	1,710.58	1/2	2,053.36	1/2	2,396.14	1/2	2,738.91	1/2	3,081.65
3/4	51.66	3/4	350.76	3/4	689.69	3/4	1,032.17	3/4	1,374.94	3/4	1,717.72	3/4	2,060.50	3/4	2,403.28	3/4	2,746.05	3/4	3,088.79
4	56.92	4	357.48	4	696.83	4	1,039.31	4	1,382.09	4	1,724.86	4	2,067.64	4	2,410.42	4	2,753.19	4	3,095.93
1/4	62.70	1/4	364.29	1/4	703.97	1/4	1,046.45	1/4	1,389.23	1/4	1,732.00	1/4	2,074.78	1/4	2,417.56	1/4	2,760.33	1/4	3,103.06
1/2	68.48	1/2	371.09	1/2	711.11	1/2	1,053.59	1/2	1,396.37	1/2	1,739.15	1/2	2,081.92	1/2	2,424.70	1/2	2,767.47	1/2	3,110.20
3/4	74.26	3/4	377.90	3/4	718.25	3/4	1,060.73	3/4	1,403.51	3/4	1,746.29	3/4	2,089.06	3/4	2,431.84	3/4	2,774.62	3/4	3,117.34
5	80.04	5	384.71	5	725.39	5	1,067.87	5	1,410.65	5	1,753.43	5	2,096.21	5	2,438.98	5	2,781.76	5	3,124.48
1/4	85.93	1/4	391.60	1/4	732.53	1/4	1,075.01	1/4	1,417.79	1/4	1,760.57	1/4	2,103.35	1/4	2,446.12	1/4	2,788.90	1/4	3,131.62
1/2	91.81	1/2	398.49	1/2	739.67	1/2	1,082.16	1/2	1,424.93	1/2	1,767.71	1/2	2,110.49	1/2	2,453.27	1/2	2,796.04	1/2	3,138.76
3/4	97.69	3/4	405.38	3/4	746.81	3/4	1,089.30	3/4	1,432.07	3/4	1,774.85	3/4	2,117.63	3/4	2,460.41	3/4	2,803.18	3/4	3,145.90
6	103.57	6	412.27	6	753.95	6	1,096.44	6	1,439.22	6	1,781.99	6	2,124.77	6	2,467.55	6	2,810.32	6	3,153.04
1/4	109.54	1/4	419.24	1/4	761.09	1/4	1,103.58	1/4	1,446.36	1/4	1,789.13	1/4	2,131.91	1/4	2,474.69	1/4	2,817.46	1/4	3,160.18
1/2	115.52	1/2	426.22	1/2	768.23	1/2	1,110.72	1/2	1,453.50	1/2	1,796.28	1/2	2,139.05	1/2	2,481.83	1/2	2,824.60	1/2	3,167.31
3/4	121.49	3/4	433.19	3/4	775.37	3/4	1,117.86	3/4	1,460.64	3/4	1,803.42	3/4	2,146.19	3/4	2,488.97	3/4	2,831.74	3/4	3,174.45
7	127.46	7	440.17	7	782.51	7	1,125.00	7	1,467.78	7	1,810.56	7	2,153.34	7	2,496.11	7	2,838.88	7	3,181.59
1/4	133.51	1/4	447.22	1/4	789.65	1/4	1,132.14	1/4	1,474.92	1/4	1,817.70	1/4	2,160.48	1/4	2,503.25	1/4	2,846.02	1/4	3,188.73
1/2	139.57	1/2	454.28	1/2	796.79	1/2	1,139.29	1/2	1,482.06	1/2	1,824.84	1/2	2,167.62	1/2	2,510.40	1/2	2,853.16	1/2	3,195.87
3/4	145.62	3/4	461.34	3/4	803.92	3/4	1,146.43	3/4	1,489.20	3/4	1,831.98	3/4	2,174.76	3/4	2,517.54	3/4	2,860.30	3/4	3,203.01
8	151.68	8	468.40	8	811.06	8	1,153.57	8	1,496.35	8	1,839.12	8	2,181.90	8	2,524.68	8	2,867.44	8	3,210.15
1/4	157.82	1/4	475.52	1/4	818.19	1/4	1,160.71	1/4	1,503.49	1/4	1,846.26	1/4	2,189.04	1/4	2,531.82	1/4	2,874.58	1/4	3,217.29
1/2	163.96	1/2	482.64	1/2	825.32	1/2	1,167.85	1/2	1,510.63	1/2	1,853.41	1/2	2,196.18	1/2	2,538.96	1/2	2,881.73	1/2	3,224.43
3/4	170.10	3/4	489.76	3/4	832.46	3/4	1,174.99	3/4	1,517.77	3/4	1,860.55	3/4	2,203.32	3/4	2,546.10	3/4	2,888.87	3/4	3,231.56
9	176.24	9	496.88	9	839.59	9	1,182.13	9	1,524.91	9	1,867.69	9	2,210.47	9	2,553.24	9	2,896.01	9	3,238.70
1/4	182.46	1/4	504.02	1/4	846.72	1/4	1,189.27	1/4	1,532.05	1/4	1,874.83	1/4	2,217.61	1/4	2,560.38	1/4	2,903.15	1/4	3,245.84
1/2	188.68	1/2	511.16	1/2	853.85	1/2	1,196.41	1/2	1,539.19	1/2	1,881.97	1/2	2,224.75	1/2	2,567.53	1/2	2,910.29	1/2	3,252.98
3/4	194.90	3/4	518.30	3/4	860.98	3/4	1,203.56	3/4	1,546.33	3/4	1,889.11	3/4	2,231.89	3/4	2,574.67	3/4	2,917.43	3/4	3,260.12
10	201.13	10	525.44	10	868.12	10	1,210.70	10	1,553.47	10	1,896.25	10	2,239.03	10	2,581.81	10	2,924.57	10	3,267.26
1/4	207.43	1/4	532.58	1/4	875.25	1/4	1,217.84	1/4	1,560.62	1/4	1,903.39	1/4	2,246.17	1/4	2,588.95	1/4	2,931.71	1/4	3,274.40
1/2	213.74	1/2	539.72	1/2	882.38	1/2	1,224.98	1/2	1,567.76	1/2	1,910.53	1/2	2,253.31	1/2	2,596.09	1/2	2,938.85	1/2	3,281.54
3/4	220.04	3/4	546.86	3/4	889.51	3/4	1,232.12	3/4	1,574.90	3/4	1,917.68	3/4	2,260.45	3/4	2,603.23	3/4	2,945.99	3/4	3,288.68
11	226.35	11	554.00	11	896.65	11	1,239.26	11	1,582.04	11	1,924.82	11	2,267.59	11	2,610.37	11	2,953.13	11	3,295.81
1/4	232.74	1/4	561.15	1/4	903.78	1/4	1,246.40	1/4	1,589.18	1/4	1,931.96	1/4	2,274.74	1/4	2,617.51	1/4	2,960.27	1/4	3,302.95
1/2	239.13	1/2	568.29	1/2	910.91	1/2	1,253.54	1/2	1,596.32	1/2	1,939.10	1/2	2,281.88	1/2	2,624.66	1/2	2,967.41	1/2	3,310.09
3/4	245.52	3/4	575.43	3/4	918.04	3/4	1,260.69	3/4	1,603.46	3/4	1,946.24	3/4	2,289.02	3/4	2,631.80	3/4	2,974.55	3/4	3,317.23

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.

GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MPX 421"

## 1 STBD

### INNAGE TABLE

#### 10" HATCH

#### GAUGE HEIGHT 18'-01 3/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,324.37	0	3,667.04	0	4,009.80	0	4,352.10	0	4,693.29	0	5,014.35	0		0		0		0	
1/4	3,331.51	1/4	3,674.18	1/4	4,016.94	1/4	4,359.21	1/4	4,700.40	1/4	5,017.54	1/4		1/4		1/4		1/4	
1/2	3,338.65	1/2	3,681.32	1/2	4,024.09	1/2	4,366.32	1/2	4,707.51	1/2	5,020.74	1/2		1/2		1/2		1/2	
3/4	3,345.79	3/4	3,688.46	3/4	4,031.23	3/4	4,373.43	3/4	4,714.62	3/4	5,023.93	3/4		3/4		3/4		3/4	
1	3,352.93	1	3,695.60	1	4,038.37	1	4,380.53	1	4,721.73	1	5,027.13	1		1		1		1	
1/4	3,360.07	1/4	3,702.75	1/4	4,045.51	1/4	4,387.64	1/4	4,728.84	1/4	5,029.13	1/4		1/4		1/4		1/4	
1/2	3,367.20	1/2	3,709.89	1/2	4,052.65	1/2	4,394.75	1/2	4,735.94	1/2	5,031.14	1/2		1/2		1/2		1/2	
3/4	3,374.34	3/4	3,717.03	3/4	4,059.79	3/4	4,401.86	3/4	4,743.05	3/4	5,033.14	3/4		3/4		3/4		3/4	
2	3,381.48	2	3,724.17	2	4,066.93	2	4,408.97	2	4,750.16	2	5,035.15	2		2		2		2	
1/4	3,388.62	1/4	3,731.31	1/4	4,074.07	1/4	4,416.07	1/4	4,757.27	1/4	5,036.08	1/4		1/4		1/4		1/4	
1/2	3,395.76	1/2	3,738.45	1/2	4,081.21	1/2	4,423.18	1/2	4,764.38	1/2	5,037.00	1/2		1/2		1/2		1/2	
3/4	3,402.90	3/4	3,745.59	3/4	4,088.35	3/4	4,430.29	3/4	4,771.48	3/4	5,037.93	3/4		3/4		3/4		3/4	
3	3,410.04	3	3,752.73	3	4,095.49	3	4,437.40	3	4,778.59	3	5,038.86	3		3		3		3	
1/4	3,417.18	1/4	3,759.87	1/4	4,102.64	1/4	4,444.51	1/4	4,785.70	1/4		1/4		1/4		1/4		1/4	
1/2	3,424.32	1/2	3,767.01	1/2	4,109.78	1/2	4,451.62	1/2	4,792.81	1/2		1/2		1/2		1/2		1/2	
3/4	3,431.45	3/4	3,774.15	3/4	4,116.92	3/4	4,458.72	3/4	4,799.92	3/4		3/4		3/4		3/4		3/4	
4	3,438.59	4	3,781.30	4	4,124.06	4	4,465.83	4	4,807.03	4		4		4		4		4	
1/4	3,445.73	1/4	3,788.44	1/4	4,131.20	1/4	4,472.94	1/4	4,814.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,452.87	1/2	3,795.58	1/2	4,138.34	1/2	4,480.05	1/2	4,821.19	1/2		1/2		1/2		1/2		1/2	
3/4	3,460.01	3/4	3,802.72	3/4	4,145.48	3/4	4,487.16	3/4	4,828.28	3/4		3/4		3/4		3/4		3/4	
5	3,467.15	5	3,809.86	5	4,152.62	5	4,494.26	5	4,835.36	5		5		5		5		5	
1/4	3,474.29	1/4	3,817.00	1/4	4,159.76	1/4	4,501.37	1/4	4,842.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,481.43	1/2	3,824.14	1/2	4,166.90	1/2	4,508.48	1/2	4,849.49	1/2		1/2		1/2		1/2		1/2	
3/4	3,488.57	3/4	3,831.28	3/4	4,174.04	3/4	4,515.59	3/4	4,856.55	3/4		3/4		3/4		3/4		3/4	
6	3,495.70	6	3,838.42	6	4,181.19	6	4,522.70	6	4,863.62	6		6		6		6		6	
1/4	3,502.84	1/4	3,845.56	1/4	4,188.33	1/4	4,529.81	1/4	4,870.68	1/4		1/4		1/4		1/4		1/4	
1/2	3,509.98	1/2	3,852.70	1/2	4,195.47	1/2	4,536.91	1/2	4,877.74	1/2		1/2		1/2		1/2		1/2	
3/4	3,517.12	3/4	3,859.85	3/4	4,202.61	3/4	4,544.02	3/4	4,884.80	3/4		3/4		3/4		3/4		3/4	
7	3,524.26	7	3,866.99	7	4,209.75	7	4,551.13	7	4,891.87	7		7		7		7		7	
1/4	3,531.40	1/4	3,874.13	1/4	4,216.89	1/4	4,558.24	1/4	4,898.92	1/4		1/4		1/4		1/4		1/4	
1/2	3,538.54	1/2	3,881.27	1/2	4,224.03	1/2	4,565.35	1/2	4,905.98	1/2		1/2		1/2		1/2		1/2	
3/4	3,545.68	3/4	3,888.41	3/4	4,231.17	3/4	4,572.46	3/4	4,913.03	3/4		3/4		3/4		3/4		3/4	
8	3,552.82	8	3,895.55	8	4,238.31	8	4,579.56	8	4,920.09	8		8		8		8		8	
1/4	3,559.95	1/4	3,902.69	1/4	4,245.44	1/4	4,586.67	1/4	4,927.11	1/4		1/4		1/4		1/4		1/4	
1/2	3,567.09	1/2	3,909.83	1/2	4,252.56	1/2	4,593.78	1/2	4,934.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,574.23	3/4	3,916.97	3/4	4,259.68	3/4	4,600.89	3/4	4,941.15	3/4		3/4		3/4		3/4		3/4	
9	3,581.37	9	3,924.11	9	4,266.80	9	4,608.00	9	4,948.17	9		9		9		9		9	
1/4	3,588.51	1/4	3,931.25	1/4	4,273.91	1/4	4,615.10	1/4	4,954.76	1/4		1/4		1/4		1/4		1/4	
1/2	3,595.65	1/2	3,938.40	1/2	4,281.02	1/2	4,622.21	1/2	4,961.34	1/2		1/2		1/2		1/2		1/2	
3/4	3,602.79	3/4	3,945.54	3/4	4,288.13	3/4	4,629.32	3/4	4,967.92	3/4		3/4		3/4		3/4		3/4	
10	3,609.93	10	3,952.68	10	4,295.24	10	4,636.43	10	4,974.50	10		10		10		10		10	
1/4	3,617.06	1/4	3,959.82	1/4	4,302.34	1/4	4,643.54	1/4	4,980.08	1/4		1/4		1/4		1/4		1/4	
1/2	3,624.20	1/2	3,966.96	1/2	4,309.45	1/2	4,650.65	1/2	4,985.66	1/2		1/2		1/2		1/2		1/2	
3/4	3,631.34	3/4	3,974.10	3/4	4,316.56	3/4	4,657.75	3/4	4,991.23	3/4		3/4		3/4		3/4		3/4	
11	3,638.48	11	3,981.24	11	4,323.67	11	4,664.86	11	4,996.81	11		11		11		11		11	
1/4	3,645.62	1/4	3,988.38	1/4	4,330.78	1/4	4,671.97	1/4	5,001.19	1/4		1/4		1/4		1/4		1/4	
1/2	3,652.76	1/2	3,995.52	1/2	4,337.88	1/2	4,679.08	1/2	5,005.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,659.90	3/4	4,002.66	3/4	4,344.99	3/4	4,686.19	3/4	5,009.96	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 2 PORT INNAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	300.52	0	643.79	0	979.19	0	1,315.84	0	1,659.12	0	2,002.40	0	2,345.69	0	2,688.97	0	3,032.25
1/4	3.94	1/4	307.68	1/4	650.94	1/4	986.04	1/4	1,322.99	1/4	1,666.27	1/4	2,009.56	1/4	2,352.84	1/4	2,696.12	1/4	3,039.39
1/2	5.73	1/2	314.83	1/2	658.09	1/2	992.88	1/2	1,330.14	1/2	1,673.43	1/2	2,016.71	1/2	2,359.99	1/2	2,703.27	1/2	3,046.54
3/4	7.52	3/4	321.98	3/4	665.25	3/4	999.73	3/4	1,337.30	3/4	1,680.58	3/4	2,023.86	3/4	2,367.14	3/4	2,710.42	3/4	3,053.68
1	9.30	1	329.13	1	672.40	1	1,006.57	1	1,344.45	1	1,687.73	1	2,031.01	1	2,374.29	1	2,717.57	1	3,060.82
1/4	12.88	1/4	336.28	1/4	679.55	1/4	1,013.41	1/4	1,351.60	1/4	1,694.88	1/4	2,038.16	1/4	2,381.44	1/4	2,724.73	1/4	3,067.97
1/2	16.46	1/2	343.43	1/2	686.70	1/2	1,020.26	1/2	1,358.75	1/2	1,702.03	1/2	2,045.31	1/2	2,388.60	1/2	2,731.88	1/2	3,075.12
3/4	20.03	3/4	350.58	3/4	693.85	3/4	1,027.10	3/4	1,365.90	3/4	1,709.18	3/4	2,052.47	3/4	2,395.75	3/4	2,739.03	3/4	3,082.27
2	23.61	2	357.74	2	701.00	2	1,033.95	2	1,373.05	2	1,716.34	2	2,059.62	2	2,402.90	2	2,746.18	2	3,089.42
1/4	28.97	1/4	364.89	1/4	708.15	1/4	1,040.79	1/4	1,380.21	1/4	1,723.49	1/4	2,066.77	1/4	2,410.05	1/4	2,753.33	1/4	3,096.57
1/2	34.33	1/2	372.04	1/2	715.31	1/2	1,047.63	1/2	1,387.36	1/2	1,730.64	1/2	2,073.92	1/2	2,417.20	1/2	2,760.48	1/2	3,103.72
3/4	39.70	3/4	379.19	3/4	722.46	3/4	1,054.48	3/4	1,394.51	3/4	1,737.79	3/4	2,081.07	3/4	2,424.35	3/4	2,767.64	3/4	3,110.87
3	45.06	3	386.34	3	729.61	3	1,061.32	3	1,401.66	3	1,744.94	3	2,088.22	3	2,431.51	3	2,774.79	3	3,118.02
1/4	51.74	1/4	393.49	1/4	736.76	1/4	1,068.17	1/4	1,408.81	1/4	1,752.09	1/4	2,095.38	1/4	2,438.66	1/4	2,781.94	1/4	3,125.17
1/2	58.43	1/2	400.64	1/2	743.91	1/2	1,075.02	1/2	1,415.96	1/2	1,759.25	1/2	2,102.53	1/2	2,445.81	1/2	2,789.09	1/2	3,132.32
3/4	65.11	3/4	407.80	3/4	751.06	3/4	1,081.87	3/4	1,423.12	3/4	1,766.40	3/4	2,109.68	3/4	2,452.96	3/4	2,796.24	3/4	3,139.47
4	71.80	4	414.95	4	758.21	4	1,088.72	4	1,430.27	4	1,773.55	4	2,116.83	4	2,460.11	4	2,803.39	4	3,146.62
1/4	78.93	1/4	422.10	1/4	765.37	1/4	1,095.58	1/4	1,437.42	1/4	1,780.70	1/4	2,123.98	1/4	2,467.26	1/4	2,810.55	1/4	3,153.77
1/2	86.06	1/2	429.25	1/2	772.52	1/2	1,102.44	1/2	1,444.57	1/2	1,787.85	1/2	2,131.13	1/2	2,474.42	1/2	2,817.70	1/2	3,160.92
3/4	93.18	3/4	436.40	3/4	779.67	3/4	1,109.30	3/4	1,451.72	3/4	1,795.00	3/4	2,138.29	3/4	2,481.57	3/4	2,824.85	3/4	3,168.07
5	100.31	5	443.55	5	786.82	5	1,116.16	5	1,458.87	5	1,802.16	5	2,145.44	5	2,488.72	5	2,832.00	5	3,175.22
1/4	107.46	1/4	450.70	1/4	793.83	1/4	1,123.17	1/4	1,466.03	1/4	1,809.31	1/4	2,152.59	1/4	2,495.87	1/4	2,839.15	1/4	3,182.37
1/2	114.60	1/2	457.86	1/2	800.84	1/2	1,130.18	1/2	1,473.18	1/2	1,816.46	1/2	2,159.74	1/2	2,503.02	1/2	2,846.30	1/2	3,189.52
3/4	121.75	3/4	465.01	3/4	807.85	3/4	1,137.19	3/4	1,480.33	3/4	1,823.61	3/4	2,166.89	3/4	2,510.17	3/4	2,853.46	3/4	3,196.67
6	128.89	6	472.16	6	814.86	6	1,144.20	6	1,487.48	6	1,830.76	6	2,174.04	6	2,517.33	6	2,860.61	6	3,203.82
1/4	136.04	1/4	479.31	1/4	821.72	1/4	1,151.35	1/4	1,494.63	1/4	1,837.91	1/4	2,181.20	1/4	2,524.48	1/4	2,867.76	1/4	3,210.97
1/2	143.20	1/2	486.46	1/2	828.58	1/2	1,158.50	1/2	1,501.78	1/2	1,845.07	1/2	2,188.35	1/2	2,531.63	1/2	2,874.91	1/2	3,218.12
3/4	150.35	3/4	493.61	3/4	835.44	3/4	1,165.65	3/4	1,508.94	3/4	1,852.22	3/4	2,195.50	3/4	2,538.78	3/4	2,882.06	3/4	3,225.27
7	157.50	7	500.76	7	842.30	7	1,172.81	7	1,516.09	7	1,859.37	7	2,202.65	7	2,545.93	7	2,889.21	7	3,232.42
1/4	164.65	1/4	507.92	1/4	849.15	1/4	1,179.96	1/4	1,523.24	1/4	1,866.52	1/4	2,209.80	1/4	2,553.08	1/4	2,896.37	1/4	3,239.56
1/2	171.80	1/2	515.07	1/2	856.00	1/2	1,187.11	1/2	1,530.39	1/2	1,873.67	1/2	2,216.95	1/2	2,560.24	1/2	2,903.52	1/2	3,246.71
3/4	178.95	3/4	522.22	3/4	862.84	3/4	1,194.26	3/4	1,537.54	3/4	1,880.82	3/4	2,224.11	3/4	2,567.39	3/4	2,910.67	3/4	3,253.86
8	186.10	8	529.37	8	869.69	8	1,201.41	8	1,544.69	8	1,887.98	8	2,231.26	8	2,574.54	8	2,917.82	8	3,261.01
1/4	193.25	1/4	536.52	1/4	876.54	1/4	1,208.56	1/4	1,551.85	1/4	1,895.13	1/4	2,238.41	1/4	2,581.69	1/4	2,924.97	1/4	3,268.16
1/2	200.41	1/2	543.67	1/2	883.38	1/2	1,215.72	1/2	1,559.00	1/2	1,902.28	1/2	2,245.56	1/2	2,588.84	1/2	2,932.12	1/2	3,275.31
3/4	207.56	3/4	550.82	3/4	890.22	3/4	1,222.87	3/4	1,566.15	3/4	1,909.43	3/4	2,252.71	3/4	2,595.99	3/4	2,939.28	3/4	3,282.46
9	214.71	9	557.98	9	897.07	9	1,230.02	9	1,573.30	9	1,916.58	9	2,259.86	9	2,603.15	9	2,946.43	9	3,289.61
1/4	221.86	1/4	565.13	1/4	903.91	1/4	1,237.17	1/4	1,580.45	1/4	1,923.73	1/4	2,267.02	1/4	2,610.30	1/4	2,953.58	1/4	3,296.76
1/2	229.01	1/2	572.28	1/2	910.75	1/2	1,244.32	1/2	1,587.60	1/2	1,930.89	1/2	2,274.17	1/2	2,617.45	1/2	2,960.73	1/2	3,303.91
3/4	236.16	3/4	579.43	3/4	917.60	3/4	1,251.48	3/4	1,594.76	3/4	1,938.04	3/4	2,281.32	3/4	2,624.60	3/4	2,967.88	3/4	3,311.06
10	243.31	10	586.58	10	924.44	10	1,258.63	10	1,601.91	10	1,945.19	10	2,288.47	10	2,631.75	10	2,975.03	10	3,318.21
1/4	250.46	1/4	593.73	1/4	931.29	1/4	1,265.78	1/4	1,609.06	1/4	1,952.34	1/4	2,295.62	1/4	2,638.90	1/4	2,982.19	1/4	3,325.36
1/2	257.62	1/2	600.88	1/2	938.13	1/2	1,272.93	1/2	1,616.21	1/2	1,959.49	1/2	2,302.77	1/2	2,646.06	1/2	2,989.34	1/2	3,332.51
3/4	264.77	3/4	608.03	3/4	944.97	3/4	1,280.08	3/4	1,623.36	3/4	1,966.64	3/4	2,309.93	3/4	2,653.21	3/4	2,996.49	3/4	3,339.66
11	271.92	11	615.19	11	951.82	11	1,287.23	11	1,630.52	11	1,973.80	11	2,317.08	11	2,660.36	11	3,003.64	11	3,346.81
1/4	279.07	1/4	622.34	1/4	958.66	1/4	1,294.39	1/4	1,637.67	1/4	1,980.95	1/4	2,324.23	1/4	2,667.51	1/4	3,010.79	1/4	3,353.96
1/2	286.22	1/2	629.49	1/2	965.51	1/2	1,301.54	1/2	1,644.82	1/2	1,988.10	1/2	2,331.38	1/2	2,674.66	1/2	3,017.94	1/2	3,361.11
3/4	293.37	3/4	636.64	3/4	972.35	3/4	1,308.69	3/4	1,651.97	3/4	1,995.25	3/4	2,338.53	3/4	2,681.81	3/4	3,025.10	3/4	3,368.26

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 2 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,375.41	0	3,718.59	0	4,061.77	0	4,404.49	0	4,746.11	0	5,067.56	0		0		0		0	
1/4	3,382.56	1/4	3,725.74	1/4	4,068.92	1/4	4,411.61	1/4	4,753.23	1/4	5,070.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,389.71	1/2	3,732.89	1/2	4,076.07	1/2	4,418.73	1/2	4,760.34	1/2	5,073.95	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,396.86	3/4	3,740.04	3/4	4,083.22	3/4	4,425.84	3/4	4,767.46	3/4	5,077.15	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,404.01	1	3,747.19	1	4,090.37	1	4,432.96	1	4,774.58	1	5,080.35	1	1	1	1	1	1	1	1
1/4	3,411.16	1/4	3,754.34	1/4	4,097.52	1/4	4,440.08	1/4	4,781.69	1/4	5,082.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,418.30	1/2	3,761.49	1/2	4,104.67	1/2	4,447.20	1/2	4,788.81	1/2	5,084.36	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,425.45	3/4	3,768.64	3/4	4,111.82	3/4	4,454.31	3/4	4,795.93	3/4	5,086.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,432.60	2	3,775.78	2	4,118.97	2	4,461.43	2	4,803.05	2	5,088.37	2	2	2	2	2	2	2	2
1/4	3,439.75	1/4	3,782.93	1/4	4,126.12	1/4	4,468.55	1/4	4,810.16	1/4	5,089.30	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,446.90	1/2	3,790.08	1/2	4,133.26	1/2	4,475.66	1/2	4,817.28	1/2	5,090.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,454.05	3/4	3,797.23	3/4	4,140.41	3/4	4,482.78	3/4	4,824.40	3/4	5,091.16	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,461.20	3	3,804.38	3	4,147.56	3	4,489.90	3	4,831.51	3	5,092.09	3	3	3	3	3	3	3	3
1/4	3,468.35	1/4	3,811.53	1/4	4,154.71	1/4	4,497.01	1/4	4,838.63	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,475.50	1/2	3,818.68	1/2	4,161.86	1/2	4,504.13	1/2	4,845.75	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,482.65	3/4	3,825.83	3/4	4,169.01	3/4	4,511.25	3/4	4,852.86	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,489.80	4	3,832.98	4	4,176.16	4	4,518.37	4	4,859.98	4	4	4	4	4	4	4	4	4	4
1/4	3,496.95	1/4	3,840.13	1/4	4,183.31	1/4	4,525.48	1/4	4,867.08	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,504.10	1/2	3,847.28	1/2	4,190.46	1/2	4,532.60	1/2	4,874.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,511.25	3/4	3,854.43	3/4	4,197.61	3/4	4,539.72	3/4	4,881.26	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,518.40	5	3,861.58	5	4,204.76	5	4,546.83	5	4,888.36	5	5	5	5	5	5	5	5	5	5
1/4	3,525.55	1/4	3,868.73	1/4	4,211.91	1/4	4,553.95	1/4	4,895.43	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,532.70	1/2	3,875.88	1/2	4,219.06	1/2	4,561.07	1/2	4,902.50	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,539.85	3/4	3,883.03	3/4	4,226.21	3/4	4,568.18	3/4	4,909.57	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,547.00	6	3,890.18	6	4,233.36	6	4,575.30	6	4,916.65	6	6	6	6	6	6	6	6	6	6
1/4	3,554.15	1/4	3,897.33	1/4	4,240.51	1/4	4,582.42	1/4	4,923.72	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,561.30	1/2	3,904.48	1/2	4,247.66	1/2	4,589.54	1/2	4,930.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,568.45	3/4	3,911.63	3/4	4,254.81	3/4	4,596.65	3/4	4,937.86	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,575.60	7	3,918.78	7	4,261.96	7	4,603.77	7	4,944.93	7	7	7	7	7	7	7	7	7	7
1/4	3,582.75	1/4	3,925.93	1/4	4,269.11	1/4	4,610.89	1/4	4,951.99	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,589.90	1/2	3,933.08	1/2	4,276.26	1/2	4,618.00	1/2	4,959.05	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,597.04	3/4	3,940.23	3/4	4,283.41	3/4	4,625.12	3/4	4,966.12	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,604.19	8	3,947.38	8	4,290.56	8	4,632.24	8	4,973.18	8	8	8	8	8	8	8	8	8	8
1/4	3,611.34	1/4	3,954.52	1/4	4,297.69	1/4	4,639.35	1/4	4,980.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,618.49	1/2	3,961.67	1/2	4,304.82	1/2	4,646.47	1/2	4,987.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,625.64	3/4	3,968.82	3/4	4,311.96	3/4	4,653.59	3/4	4,994.27	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,632.79	9	3,975.97	9	4,319.09	9	4,660.71	9	5,001.30	9	9	9	9	9	9	9	9	9	9
1/4	3,639.94	1/4	3,983.12	1/4	4,326.21	1/4	4,667.82	1/4	5,007.89	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,647.09	1/2	3,990.27	1/2	4,333.32	1/2	4,674.94	1/2	5,014.48	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,654.24	3/4	3,997.42	3/4	4,340.44	3/4	4,682.06	3/4	5,021.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,661.39	10	4,004.57	10	4,347.56	10	4,689.17	10	5,027.67	10	10	10	10	10	10	10	10	10	10
1/4	3,668.54	1/4	4,011.72	1/4	4,354.67	1/4	4,696.29	1/4	5,033.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,675.69	1/2	4,018.87	1/2	4,361.79	1/2	4,703.41	1/2	5,038.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,682.84	3/4	4,026.02	3/4	4,368.91	3/4	4,710.52	3/4	5,044.41	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,689.99	11	4,033.17	11	4,376.03	11	4,717.64	11	5,049.99	11	11	11	11	11	11	11	11	11	11
1/4	3,697.14	1/4	4,040.32	1/4	4,383.14	1/4	4,724.76	1/4	5,054.38	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,704.29	1/2	4,047.47	1/2	4,390.26	1/2	4,731.88	1/2	5,058.77	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,711.44	3/4	4,054.62	3/4	4,397.38	3/4	4,738.99	3/4	5,063.17	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 2 STBD

### INNAGE TABLE

#### 10" HATCH

#### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.16	0	300.77	0	644.31	0	987.58	0	1,330.92	0	1,674.47	0	2,018.03	0	2,361.58	0	2,705.14	0	3,048.69
1/4	3.95	1/4	307.92	1/4	651.47	1/4	994.73	1/4	1,338.08	1/4	1,681.63	1/4	2,025.19	1/4	2,368.74	1/4	2,712.30	1/4	3,055.85
1/2	5.73	1/2	315.08	1/2	658.62	1/2	1,001.87	1/2	1,345.23	1/2	1,688.79	1/2	2,032.34	1/2	2,375.90	1/2	2,719.45	1/2	3,063.01
3/4	7.52	3/4	322.24	3/4	665.78	3/4	1,009.01	3/4	1,352.39	3/4	1,695.95	3/4	2,039.50	3/4	2,383.06	3/4	2,726.61	3/4	3,070.16
1	9.31	1	329.40	1	672.94	1	1,016.16	1	1,359.55	1	1,703.10	1	2,046.66	1	2,390.21	1	2,733.77	1	3,077.32
1/4	12.89	1/4	336.55	1/4	680.09	1/4	1,023.30	1/4	1,366.70	1/4	1,710.26	1/4	2,053.82	1/4	2,397.37	1/4	2,740.93	1/4	3,084.47
1/2	16.47	1/2	343.71	1/2	687.25	1/2	1,030.44	1/2	1,373.86	1/2	1,717.42	1/2	2,060.97	1/2	2,404.53	1/2	2,748.08	1/2	3,091.63
3/4	20.05	3/4	350.87	3/4	694.41	3/4	1,037.59	3/4	1,381.02	3/4	1,724.57	3/4	2,068.13	3/4	2,411.69	3/4	2,755.24	3/4	3,098.79
2	23.63	2	358.02	2	701.56	2	1,044.73	2	1,388.18	2	1,731.73	2	2,075.29	2	2,418.84	2	2,762.40	2	3,105.94
1/4	28.99	1/4	365.18	1/4	708.72	1/4	1,051.87	1/4	1,395.33	1/4	1,738.89	1/4	2,082.44	1/4	2,426.00	1/4	2,769.56	1/4	3,113.10
1/2	34.36	1/2	372.34	1/2	715.88	1/2	1,059.02	1/2	1,402.49	1/2	1,746.05	1/2	2,089.60	1/2	2,433.16	1/2	2,776.71	1/2	3,120.25
3/4	39.73	3/4	379.50	3/4	723.04	3/4	1,066.16	3/4	1,409.65	3/4	1,753.20	3/4	2,096.76	3/4	2,440.31	3/4	2,783.87	3/4	3,127.41
3	45.10	3	386.65	3	730.19	3	1,073.30	3	1,416.81	3	1,760.36	3	2,103.92	3	2,447.47	3	2,791.03	3	3,134.56
1/4	51.79	1/4	393.81	1/4	737.35	1/4	1,080.45	1/4	1,423.96	1/4	1,767.52	1/4	2,111.07	1/4	2,454.63	1/4	2,798.18	1/4	3,141.72
1/2	58.48	1/2	400.97	1/2	744.51	1/2	1,087.60	1/2	1,431.12	1/2	1,774.68	1/2	2,118.23	1/2	2,461.79	1/2	2,805.34	1/2	3,148.87
3/4	65.17	3/4	408.12	3/4	751.66	3/4	1,094.74	3/4	1,438.28	3/4	1,781.83	3/4	2,125.39	3/4	2,468.94	3/4	2,812.50	3/4	3,156.03
4	71.86	4	415.28	4	758.82	4	1,101.89	4	1,445.44	4	1,788.99	4	2,132.55	4	2,476.10	4	2,819.66	4	3,163.18
1/4	78.99	1/4	422.44	1/4	765.98	1/4	1,109.05	1/4	1,452.59	1/4	1,796.15	1/4	2,139.70	1/4	2,483.26	1/4	2,826.81	1/4	3,170.34
1/2	86.13	1/2	429.59	1/2	773.14	1/2	1,116.20	1/2	1,459.75	1/2	1,803.31	1/2	2,146.86	1/2	2,490.42	1/2	2,833.97	1/2	3,177.49
3/4	93.26	3/4	436.75	3/4	780.29	3/4	1,123.36	3/4	1,466.91	3/4	1,810.46	3/4	2,154.02	3/4	2,497.57	3/4	2,841.13	3/4	3,184.65
5	100.39	5	443.91	5	787.45	5	1,130.51	5	1,474.07	5	1,817.62	5	2,161.18	5	2,504.73	5	2,848.29	5	3,191.81
1/4	107.55	1/4	451.07	1/4	794.61	1/4	1,137.67	1/4	1,481.22	1/4	1,824.78	1/4	2,168.33	1/4	2,511.89	1/4	2,855.44	1/4	3,198.96
1/2	114.70	1/2	458.22	1/2	801.76	1/2	1,144.83	1/2	1,488.38	1/2	1,831.94	1/2	2,175.49	1/2	2,519.05	1/2	2,862.60	1/2	3,206.12
3/4	121.85	3/4	465.38	3/4	808.92	3/4	1,151.98	3/4	1,495.54	3/4	1,839.09	3/4	2,182.65	3/4	2,526.20	3/4	2,869.76	3/4	3,213.27
6	129.00	6	472.54	6	816.08	6	1,159.14	6	1,502.70	6	1,846.25	6	2,189.81	6	2,533.36	6	2,876.92	6	3,220.43
1/4	136.16	1/4	479.69	1/4	823.23	1/4	1,166.30	1/4	1,509.85	1/4	1,853.41	1/4	2,196.96	1/4	2,540.52	1/4	2,884.07	1/4	3,227.58
1/2	143.31	1/2	486.85	1/2	830.39	1/2	1,173.46	1/2	1,517.01	1/2	1,860.57	1/2	2,204.12	1/2	2,547.68	1/2	2,891.23	1/2	3,234.74
3/4	150.47	3/4	494.01	3/4	837.55	3/4	1,180.61	3/4	1,524.17	3/4	1,867.72	3/4	2,211.28	3/4	2,554.83	3/4	2,898.39	3/4	3,241.89
7	157.63	7	501.17	7	844.70	7	1,187.77	7	1,531.33	7	1,874.88	7	2,218.44	7	2,561.99	7	2,905.55	7	3,249.05
1/4	164.78	1/4	508.32	1/4	851.85	1/4	1,194.93	1/4	1,538.48	1/4	1,882.04	1/4	2,225.59	1/4	2,569.15	1/4	2,912.70	1/4	3,256.20
1/2	171.94	1/2	515.48	1/2	859.00	1/2	1,202.08	1/2	1,545.64	1/2	1,889.20	1/2	2,232.75	1/2	2,576.31	1/2	2,919.86	1/2	3,263.36
3/4	179.10	3/4	522.64	3/4	866.14	3/4	1,209.24	3/4	1,552.80	3/4	1,896.35	3/4	2,239.91	3/4	2,583.46	3/4	2,927.02	3/4	3,270.51
8	186.25	8	529.79	8	873.29	8	1,216.40	8	1,559.95	8	1,903.51	8	2,247.07	8	2,590.62	8	2,934.18	8	3,277.67
1/4	193.41	1/4	536.95	1/4	880.43	1/4	1,223.56	1/4	1,567.11	1/4	1,910.67	1/4	2,254.22	1/4	2,597.78	1/4	2,941.33	1/4	3,284.83
1/2	200.57	1/2	544.11	1/2	887.58	1/2	1,230.71	1/2	1,574.27	1/2	1,917.82	1/2	2,261.38	1/2	2,604.94	1/2	2,948.49	1/2	3,291.98
3/4	207.72	3/4	551.27	3/4	894.72	3/4	1,237.87	3/4	1,581.43	3/4	1,924.98	3/4	2,268.54	3/4	2,612.09	3/4	2,955.65	3/4	3,299.14
9	214.88	9	558.42	9	901.86	9	1,245.03	9	1,588.58	9	1,932.14	9	2,275.69	9	2,619.25	9	2,962.81	9	3,306.29
1/4	222.04	1/4	565.58	1/4	909.01	1/4	1,252.19	1/4	1,595.74	1/4	1,939.30	1/4	2,282.85	1/4	2,626.41	1/4	2,969.96	1/4	3,313.45
1/2	229.20	1/2	572.74	1/2	916.15	1/2	1,259.34	1/2	1,602.90	1/2	1,946.45	1/2	2,290.01	1/2	2,633.56	1/2	2,977.12	1/2	3,320.60
3/4	236.35	3/4	579.89	3/4	923.29	3/4	1,266.50	3/4	1,610.06	3/4	1,953.61	3/4	2,297.17	3/4	2,640.72	3/4	2,984.28	3/4	3,327.76
10	243.51	10	587.05	10	930.44	10	1,273.66	10	1,617.21	10	1,960.77	10	2,304.32	10	2,647.88	10	2,991.43	10	3,334.91
1/4	250.67	1/4	594.21	1/4	937.58	1/4	1,280.82	1/4	1,624.37	1/4	1,967.93	1/4	2,311.48	1/4	2,655.04	1/4	2,998.59	1/4	3,342.07
1/2	257.82	1/2	601.37	1/2	944.72	1/2	1,287.97	1/2	1,631.53	1/2	1,975.08	1/2	2,318.64	1/2	2,662.19	1/2	3,005.75	1/2	3,349.22
3/4	264.98	3/4	608.52	3/4	951.87	3/4	1,295.13	3/4	1,638.69	3/4	1,982.24	3/4	2,325.80	3/4	2,669.35	3/4	3,012.91	3/4	3,356.38
11	272.14	11	615.68	11	959.01	11	1,302.29	11	1,645.84	11	1,989.40	11	2,332.95	11	2,676.51	11	3,020.06	11	3,363.54
1/4	279.30	1/4	622.84	1/4	966.15	1/4	1,309.45	1/4	1,653.00	1/4	1,996.56	1/4	2,340.11	1/4	2,683.67	1/4	3,027.22	1/4	3,370.69
1/2	286.45	1/2	629.99	1/2	973.30	1/2	1,316.60	1/2	1,660.16	1/2	2,003.71	1/2	2,347.27	1/2	2,690.82	1/2	3,034.38	1/2	3,377.85
3/4	293.61	3/4	637.15	3/4	980.44	3/4	1,323.76	3/4	1,667.32	3/4	2,010.87	3/4	2,354.43	3/4	2,697.98	3/4	3,041.54	3/4	3,385.00

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 3'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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 Pearland, Texas 77588  
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# BARGE "MPX 421"

**2 STBD  
INNAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,392.16	0	3,735.63	0	4,079.18	0	4,422.28	0	4,764.27	0	5,086.07	0		0		0		0	
1/4	3,399.31	1/4	3,742.78	1/4	4,086.34	1/4	4,429.41	1/4	4,771.39	1/4	5,089.27	1/4		1/4		1/4		1/4	
1/2	3,406.47	1/2	3,749.94	1/2	4,093.50	1/2	4,436.53	1/2	4,778.52	1/2	5,092.48	1/2		1/2		1/2		1/2	
3/4	3,413.62	3/4	3,757.10	3/4	4,100.65	3/4	4,443.65	3/4	4,785.64	3/4	5,095.68	3/4		3/4		3/4		3/4	
1	3,420.78	1	3,764.26	1	4,107.81	1	4,450.78	1	4,792.76	1	5,098.88	1		1		1		1	
1/4	3,427.93	1/4	3,771.41	1/4	4,114.97	1/4	4,457.90	1/4	4,799.89	1/4	5,100.89	1/4		1/4		1/4		1/4	
1/2	3,435.09	1/2	3,778.57	1/2	4,122.13	1/2	4,465.03	1/2	4,807.01	1/2	5,102.90	1/2		1/2		1/2		1/2	
3/4	3,442.24	3/4	3,785.73	3/4	4,129.28	3/4	4,472.15	3/4	4,814.14	3/4	5,104.91	3/4		3/4		3/4		3/4	
2	3,449.40	2	3,792.89	2	4,136.44	2	4,479.28	2	4,821.26	2	5,106.92	2		2		2		2	
1/4	3,456.56	1/4	3,800.04	1/4	4,143.60	1/4	4,486.40	1/4	4,828.39	1/4	5,107.85	1/4		1/4		1/4		1/4	
1/2	3,463.71	1/2	3,807.20	1/2	4,150.76	1/2	4,493.53	1/2	4,835.51	1/2	5,108.78	1/2		1/2		1/2		1/2	
3/4	3,470.87	3/4	3,814.36	3/4	4,157.91	3/4	4,500.65	3/4	4,842.64	3/4	5,109.71	3/4		3/4		3/4		3/4	
3	3,478.02	3	3,821.52	3	4,165.07	3	4,507.78	3	4,849.76	3	5,110.64	3		3		3		3	
1/4	3,485.18	1/4	3,828.67	1/4	4,172.23	1/4	4,514.90	1/4	4,856.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,492.33	1/2	3,835.83	1/2	4,179.39	1/2	4,522.03	1/2	4,864.01	1/2		1/2		1/2		1/2		1/2	
3/4	3,499.49	3/4	3,842.99	3/4	4,186.54	3/4	4,529.15	3/4	4,871.14	3/4		3/4		3/4		3/4		3/4	
4	3,506.64	4	3,850.15	4	4,193.70	4	4,536.28	4	4,878.26	4		4		4		4		4	
1/4	3,513.80	1/4	3,857.30	1/4	4,200.86	1/4	4,543.40	1/4	4,885.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,520.95	1/2	3,864.46	1/2	4,208.02	1/2	4,550.52	1/2	4,892.47	1/2		1/2		1/2		1/2		1/2	
3/4	3,528.11	3/4	3,871.62	3/4	4,215.17	3/4	4,557.65	3/4	4,899.57	3/4		3/4		3/4		3/4		3/4	
5	3,535.26	5	3,878.78	5	4,222.33	5	4,564.77	5	4,906.67	5		5		5		5		5	
1/4	3,542.42	1/4	3,885.93	1/4	4,229.49	1/4	4,571.90	1/4	4,913.75	1/4		1/4		1/4		1/4		1/4	
1/2	3,549.58	1/2	3,893.09	1/2	4,236.65	1/2	4,579.02	1/2	4,920.83	1/2		1/2		1/2		1/2		1/2	
3/4	3,556.73	3/4	3,900.25	3/4	4,243.80	3/4	4,586.15	3/4	4,927.91	3/4		3/4		3/4		3/4		3/4	
6	3,563.89	6	3,907.41	6	4,250.96	6	4,593.27	6	4,934.99	6		6		6		6		6	
1/4	3,571.04	1/4	3,914.56	1/4	4,258.12	1/4	4,600.40	1/4	4,942.07	1/4		1/4		1/4		1/4		1/4	
1/2	3,578.20	1/2	3,921.72	1/2	4,265.28	1/2	4,607.52	1/2	4,949.15	1/2		1/2		1/2		1/2		1/2	
3/4	3,585.35	3/4	3,928.88	3/4	4,272.43	3/4	4,614.65	3/4	4,956.22	3/4		3/4		3/4		3/4		3/4	
7	3,592.51	7	3,936.03	7	4,279.59	7	4,621.77	7	4,963.30	7		7		7		7		7	
1/4	3,599.66	1/4	3,943.19	1/4	4,286.75	1/4	4,628.90	1/4	4,970.38	1/4		1/4		1/4		1/4		1/4	
1/2	3,606.82	1/2	3,950.35	1/2	4,293.90	1/2	4,636.02	1/2	4,977.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,613.97	3/4	3,957.51	3/4	4,301.06	3/4	4,643.15	3/4	4,984.52	3/4		3/4		3/4		3/4		3/4	
8	3,621.13	8	3,964.66	8	4,308.22	8	4,650.27	8	4,991.59	8		8		8		8		8	
1/4	3,628.28	1/4	3,971.82	1/4	4,315.36	1/4	4,657.40	1/4	4,998.63	1/4		1/4		1/4		1/4		1/4	
1/2	3,635.44	1/2	3,978.98	1/2	4,322.50	1/2	4,664.52	1/2	5,005.67	1/2		1/2		1/2		1/2		1/2	
3/4	3,642.60	3/4	3,986.14	3/4	4,329.64	3/4	4,671.64	3/4	5,012.70	3/4		3/4		3/4		3/4		3/4	
9	3,649.75	9	3,993.29	9	4,336.78	9	4,678.77	9	5,019.74	9		9		9		9		9	
1/4	3,656.91	1/4	4,000.45	1/4	4,343.91	1/4	4,685.89	1/4	5,026.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,664.06	1/2	4,007.61	1/2	4,351.03	1/2	4,693.02	1/2	5,032.94	1/2		1/2		1/2		1/2		1/2	
3/4	3,671.22	3/4	4,014.77	3/4	4,358.16	3/4	4,700.14	3/4	5,039.54	3/4		3/4		3/4		3/4		3/4	
10	3,678.37	10	4,021.92	10	4,365.28	10	4,707.27	10	5,046.13	10		10		10		10		10	
1/4	3,685.53	1/4	4,029.08	1/4	4,372.41	1/4	4,714.39	1/4	5,051.72	1/4		1/4		1/4		1/4		1/4	
1/2	3,692.69	1/2	4,036.24	1/2	4,379.53	1/2	4,721.52	1/2	5,057.31	1/2		1/2		1/2		1/2		1/2	
3/4	3,699.84	3/4	4,043.40	3/4	4,386.66	3/4	4,728.64	3/4	5,062.90	3/4		3/4		3/4		3/4		3/4	
11	3,707.00	11	4,050.55	11	4,393.78	11	4,735.77	11	5,068.49	11		11		11		11		11	
1/4	3,714.16	1/4	4,057.71	1/4	4,400.91	1/4	4,742.89	1/4	5,072.88	1/4		1/4		1/4		1/4		1/4	
1/2	3,721.31	1/2	4,064.87	1/2	4,408.03	1/2	4,750.02	1/2	5,077.28	1/2		1/2		1/2		1/2		1/2	
3/4	3,728.47	3/4	4,072.03	3/4	4,415.16	3/4	4,757.14	3/4	5,081.68	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021



# BARGE "MPX 421"

## 3 PORT INNAGE TABLE

### 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.79	0	641.76	0	975.89	0	1,311.22	0	1,653.02	0	1,994.82	0	2,336.62	0	2,678.39	0	3,020.31
1/4	3.93	1/4	306.92	1/4	648.88	1/4	982.70	1/4	1,318.34	1/4	1,660.14	1/4	2,001.94	1/4	2,343.74	1/4	2,685.51	1/4	3,027.44
1/2	5.72	1/2	314.05	1/2	656.01	1/2	989.51	1/2	1,325.46	1/2	1,667.26	1/2	2,009.06	1/2	2,350.86	1/2	2,692.63	1/2	3,034.56
3/4	7.50	3/4	321.19	3/4	663.13	3/4	996.32	3/4	1,332.58	3/4	1,674.38	3/4	2,016.18	3/4	2,357.98	3/4	2,699.75	3/4	3,041.69
1	9.28	1	328.32	1	670.25	1	1,003.13	1	1,339.70	1	1,681.50	1	2,023.30	1	2,365.10	1	2,706.87	1	3,048.81
1/4	12.85	1/4	335.45	1/4	677.37	1/4	1,009.94	1/4	1,346.82	1/4	1,688.62	1/4	2,030.42	1/4	2,372.22	1/4	2,713.99	1/4	3,055.93
1/2	16.42	1/2	342.59	1/2	684.49	1/2	1,016.75	1/2	1,353.94	1/2	1,695.74	1/2	2,037.54	1/2	2,379.34	1/2	2,721.11	1/2	3,063.04
3/4	19.98	3/4	349.72	3/4	691.62	3/4	1,023.57	3/4	1,361.07	3/4	1,702.86	3/4	2,044.66	3/4	2,386.46	3/4	2,728.23	3/4	3,070.16
2	23.55	2	356.86	2	698.74	2	1,030.38	2	1,368.19	2	1,709.98	2	2,051.78	2	2,393.58	2	2,735.35	2	3,077.27
1/4	28.90	1/4	363.98	1/4	705.86	1/4	1,037.19	1/4	1,375.31	1/4	1,717.11	1/4	2,058.90	1/4	2,400.70	1/4	2,742.47	1/4	3,084.39
1/2	34.25	1/2	371.11	1/2	712.98	1/2	1,044.00	1/2	1,382.43	1/2	1,724.23	1/2	2,066.02	1/2	2,407.82	1/2	2,749.59	1/2	3,091.51
3/4	39.60	3/4	378.24	3/4	720.11	3/4	1,050.81	3/4	1,389.55	3/4	1,731.35	3/4	2,073.15	3/4	2,414.94	3/4	2,756.71	3/4	3,098.62
3	44.95	3	385.37	3	727.23	3	1,057.62	3	1,396.67	3	1,738.47	3	2,080.27	3	2,422.06	3	2,763.83	3	3,105.74
1/4	51.62	1/4	392.49	1/4	734.35	1/4	1,064.44	1/4	1,403.79	1/4	1,745.59	1/4	2,087.39	1/4	2,429.19	1/4	2,770.95	1/4	3,112.84
1/2	58.29	1/2	399.61	1/2	741.47	1/2	1,071.25	1/2	1,410.91	1/2	1,752.71	1/2	2,094.51	1/2	2,436.31	1/2	2,778.07	1/2	3,119.95
3/4	64.96	3/4	406.73	3/4	748.59	3/4	1,078.07	3/4	1,418.03	3/4	1,759.83	3/4	2,101.63	3/4	2,443.43	3/4	2,785.19	3/4	3,127.06
4	71.62	4	413.85	4	755.72	4	1,084.88	4	1,425.15	4	1,766.95	4	2,108.75	4	2,450.55	4	2,792.31	4	3,134.17
1/4	78.74	1/4	420.98	1/4	762.84	1/4	1,091.74	1/4	1,432.27	1/4	1,774.07	1/4	2,115.87	1/4	2,457.67	1/4	2,799.43	1/4	3,141.26
1/2	85.85	1/2	428.10	1/2	769.96	1/2	1,098.59	1/2	1,439.39	1/2	1,781.19	1/2	2,122.99	1/2	2,464.79	1/2	2,806.55	1/2	3,148.36
3/4	92.96	3/4	435.22	3/4	777.08	3/4	1,105.45	3/4	1,446.52	3/4	1,788.31	3/4	2,130.11	3/4	2,471.91	3/4	2,813.67	3/4	3,155.46
5	100.07	5	442.34	5	784.20	5	1,112.30	5	1,453.64	5	1,795.43	5	2,137.23	5	2,479.03	5	2,820.79	5	3,162.56
1/4	107.19	1/4	449.47	1/4	791.21	1/4	1,119.31	1/4	1,460.76	1/4	1,802.56	1/4	2,144.35	1/4	2,486.15	1/4	2,827.91	1/4	3,169.66
1/2	114.32	1/2	456.59	1/2	798.22	1/2	1,126.31	1/2	1,467.88	1/2	1,809.68	1/2	2,151.47	1/2	2,493.27	1/2	2,835.03	1/2	3,176.76
3/4	121.45	3/4	463.71	3/4	805.22	3/4	1,133.32	3/4	1,475.00	3/4	1,816.80	3/4	2,158.60	3/4	2,500.39	3/4	2,842.15	3/4	3,183.85
6	128.58	6	470.83	6	812.23	6	1,140.32	6	1,482.12	6	1,823.92	6	2,165.72	6	2,507.51	6	2,849.27	6	3,190.95
1/4	135.71	1/4	477.95	1/4	819.08	1/4	1,147.44	1/4	1,489.24	1/4	1,831.04	1/4	2,172.84	1/4	2,514.63	1/4	2,856.39	1/4	3,198.05
1/2	142.84	1/2	485.08	1/2	825.94	1/2	1,154.56	1/2	1,496.36	1/2	1,838.16	1/2	2,179.96	1/2	2,521.75	1/2	2,863.51	1/2	3,205.15
3/4	149.98	3/4	492.20	3/4	832.79	3/4	1,161.68	3/4	1,503.48	3/4	1,845.28	3/4	2,187.08	3/4	2,528.87	3/4	2,870.63	3/4	3,212.25
7	157.11	7	499.32	7	839.65	7	1,168.80	7	1,510.60	7	1,852.40	7	2,194.20	7	2,535.99	7	2,877.75	7	3,219.35
1/4	164.24	1/4	506.44	1/4	846.46	1/4	1,175.92	1/4	1,517.72	1/4	1,859.52	1/4	2,201.32	1/4	2,543.11	1/4	2,884.87	1/4	3,226.45
1/2	171.38	1/2	513.56	1/2	853.28	1/2	1,183.05	1/2	1,524.84	1/2	1,866.64	1/2	2,208.44	1/2	2,550.23	1/2	2,891.99	1/2	3,233.54
3/4	178.51	3/4	520.69	3/4	860.09	3/4	1,190.17	3/4	1,531.96	3/4	1,873.76	3/4	2,215.56	3/4	2,557.35	3/4	2,899.11	3/4	3,240.64
8	185.64	8	527.81	8	866.91	8	1,197.29	8	1,539.09	8	1,880.88	8	2,222.68	8	2,564.47	8	2,906.23	8	3,247.74
1/4	192.78	1/4	534.93	1/4	873.72	1/4	1,204.41	1/4	1,546.21	1/4	1,888.00	1/4	2,229.80	1/4	2,571.59	1/4	2,913.36	1/4	3,254.84
1/2	199.91	1/2	542.05	1/2	880.53	1/2	1,211.53	1/2	1,553.33	1/2	1,895.13	1/2	2,236.92	1/2	2,578.71	1/2	2,920.48	1/2	3,261.94
3/4	207.05	3/4	549.17	3/4	887.34	3/4	1,218.65	3/4	1,560.45	3/4	1,902.25	3/4	2,244.04	3/4	2,585.83	3/4	2,927.61	3/4	3,269.04
9	214.18	9	556.30	9	894.15	9	1,225.77	9	1,567.57	9	1,909.37	9	2,251.17	9	2,592.95	9	2,934.74	9	3,276.14
1/4	221.31	1/4	563.42	1/4	900.96	1/4	1,232.89	1/4	1,574.69	1/4	1,916.49	1/4	2,258.29	1/4	2,600.07	1/4	2,941.87	1/4	3,283.24
1/2	228.45	1/2	570.54	1/2	907.78	1/2	1,240.01	1/2	1,581.81	1/2	1,923.61	1/2	2,265.41	1/2	2,607.19	1/2	2,949.00	1/2	3,290.34
3/4	235.58	3/4	577.66	3/4	914.59	3/4	1,247.13	3/4	1,588.93	3/4	1,930.73	3/4	2,272.53	3/4	2,614.31	3/4	2,956.13	3/4	3,297.44
10	242.72	10	584.79	10	921.40	10	1,254.25	10	1,596.05	10	1,937.85	10	2,279.65	10	2,621.43	10	2,963.26	10	3,304.54
1/4	249.85	1/4	591.91	1/4	928.21	1/4	1,261.37	1/4	1,603.17	1/4	1,944.97	1/4	2,286.77	1/4	2,628.55	1/4	2,970.39	1/4	3,311.64
1/2	256.98	1/2	599.03	1/2	935.02	1/2	1,268.50	1/2	1,610.29	1/2	1,952.09	1/2	2,293.89	1/2	2,635.67	1/2	2,977.52	1/2	3,318.74
3/4	264.12	3/4	606.15	3/4	941.83	3/4	1,275.62	3/4	1,617.41	3/4	1,959.21	3/4	2,301.01	3/4	2,642.79	3/4	2,984.66	3/4	3,325.84
11	271.25	11	613.27	11	948.64	11	1,282.74	11	1,624.54	11	1,966.33	11	2,308.13	11	2,649.91	11	2,991.79	11	3,332.94
1/4	278.38	1/4	620.40	1/4	955.45	1/4	1,289.86	1/4	1,631.66	1/4	1,973.45	1/4	2,315.25	1/4	2,657.03	1/4	2,998.92	1/4	3,338.66
1/2	285.52	1/2	627.52	1/2	962.26	1/2	1,296.98	1/2	1,638.78	1/2	1,980.58	1/2	2,322.37	1/2	2,664.15	1/2	3,006.05	1/2	3,344.38
3/4	292.65	3/4	634.64	3/4	969.08	3/4	1,304.10	3/4	1,645.90	3/4	1,987.70	3/4	2,329.49	3/4	2,671.27	3/4	3,013.18	3/4	3,350.10

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MPX 421"

## 3 PORT INNAGE TABLE 10" HATCH GAUGE HEIGHT 18'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,355.81	0	3,564.90	0	3,774.75	0	3,984.34	0	4,193.28	0	4,383.92	0		0		0		0	
1/4	3,360.15	1/4	3,569.27	1/4	3,779.13	1/4	3,988.70	1/4	4,197.63	1/4	4,385.63	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,364.49	1/2	3,573.64	1/2	3,783.50	1/2	3,993.05	1/2	4,201.99	1/2	4,387.34	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,368.83	3/4	3,578.01	3/4	3,787.87	3/4	3,997.40	3/4	4,206.34	3/4	4,389.05	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,373.17	1	3,582.39	1	3,792.24	1	4,001.75	1	4,210.69	1	4,390.76	1	1	1	1	1	1	1	1
1/4	3,377.51	1/4	3,586.76	1/4	3,796.61	1/4	4,006.11	1/4	4,215.05	1/4	4,392.46	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,381.86	1/2	3,591.13	1/2	3,800.99	1/2	4,010.46	1/2	4,219.40	1/2	4,394.17	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,386.21	3/4	3,595.50	3/4	3,805.36	3/4	4,014.81	3/4	4,223.75	3/4	4,395.88	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,390.56	2	3,599.87	2	3,809.73	2	4,019.17	2	4,228.10	2	4,397.59	2	2	2	2	2	2	2	2
1/4	3,394.91	1/4	3,604.25	1/4	3,814.10	1/4	4,023.52	1/4	4,232.46	1/4	4,398.67	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,399.27	1/2	3,608.62	1/2	3,818.47	1/2	4,027.87	1/2	4,236.81	1/2	4,399.74	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,403.62	3/4	3,612.99	3/4	3,822.85	3/4	4,032.22	3/4	4,241.16	3/4	4,400.82	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,407.98	3	3,617.36	3	3,827.22	3	4,036.58	3	4,245.52	3	4,401.90	3	3	3	3	3	3	3	3
1/4	3,412.34	1/4	3,621.73	1/4	3,831.59	1/4	4,040.93	1/4	4,249.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,416.69	1/2	3,626.11	1/2	3,835.96	1/2	4,045.28	1/2	4,254.22	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,421.05	3/4	3,630.48	3/4	3,840.33	3/4	4,049.64	3/4	4,258.58	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,425.40	4	3,634.85	4	3,844.71	4	4,053.99	4	4,262.93	4		4	4	4	4	4	4	4	4
1/4	3,429.76	1/4	3,639.22	1/4	3,849.08	1/4	4,058.34	1/4	4,267.27	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,434.12	1/2	3,643.59	1/2	3,853.45	1/2	4,062.69	1/2	4,271.61	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,438.47	3/4	3,647.97	3/4	3,857.82	3/4	4,067.05	3/4	4,275.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,442.83	5	3,652.34	5	3,862.19	5	4,071.40	5	4,280.28	5		5	5	5	5	5	5	5	5
1/4	3,447.19	1/4	3,656.71	1/4	3,866.57	1/4	4,075.75	1/4	4,284.61	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,451.54	1/2	3,661.08	1/2	3,870.94	1/2	4,080.11	1/2	4,288.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,455.90	3/4	3,665.45	3/4	3,875.31	3/4	4,084.46	3/4	4,293.26	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,460.25	6	3,669.83	6	3,879.68	6	4,088.81	6	4,297.59	6		6	6	6	6	6	6	6	6
1/4	3,464.61	1/4	3,674.20	1/4	3,884.05	1/4	4,093.16	1/4	4,301.91	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,468.97	1/2	3,678.57	1/2	3,888.43	1/2	4,097.52	1/2	4,306.23	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,473.32	3/4	3,682.94	3/4	3,892.80	3/4	4,101.87	3/4	4,310.56	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,477.68	7	3,687.31	7	3,897.17	7	4,106.22	7	4,314.88	7		7	7	7	7	7	7	7	7
1/4	3,482.04	1/4	3,691.69	1/4	3,901.54	1/4	4,110.58	1/4	4,319.20	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,486.39	1/2	3,696.06	1/2	3,905.91	1/2	4,114.93	1/2	4,323.51	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,490.75	3/4	3,700.43	3/4	3,910.29	3/4	4,119.28	3/4	4,327.83	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,495.10	8	3,704.80	8	3,914.66	8	4,123.64	8	4,332.15	8		8	8	8	8	8	8	8	8
1/4	3,499.46	1/4	3,709.17	1/4	3,919.02	1/4	4,127.99	1/4	4,336.43	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,503.82	1/2	3,713.55	1/2	3,923.38	1/2	4,132.34	1/2	4,340.71	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,508.17	3/4	3,717.92	3/4	3,927.75	3/4	4,136.69	3/4	4,345.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,512.53	9	3,722.29	9	3,932.11	9	4,141.05	9	4,349.28	9		9	9	9	9	9	9	9	9
1/4	3,516.89	1/4	3,726.66	1/4	3,936.46	1/4	4,145.40	1/4	4,353.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,521.24	1/2	3,731.03	1/2	3,940.81	1/2	4,149.75	1/2	4,356.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,525.60	3/4	3,735.41	3/4	3,945.17	3/4	4,154.11	3/4	4,360.82	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,529.95	10	3,739.78	10	3,949.52	10	4,158.46	10	4,364.66	10		10	10	10	10	10	10	10	10
1/4	3,534.32	1/4	3,744.15	1/4	3,953.87	1/4	4,162.81	1/4	4,367.50	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,538.68	1/2	3,748.52	1/2	3,958.23	1/2	4,167.16	1/2	4,370.34	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,543.05	3/4	3,752.89	3/4	3,962.58	3/4	4,171.52	3/4	4,373.18	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,547.41	11	3,757.27	11	3,966.93	11	4,175.87	11	4,376.02	11		11	11	11	11	11	11	11	11
1/4	3,551.78	1/4	3,761.64	1/4	3,971.28	1/4	4,180.22	1/4	4,378.00	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,556.15	1/2	3,766.01	1/2	3,975.64	1/2	4,184.58	1/2	4,379.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,560.53	3/4	3,770.38	3/4	3,979.99	3/4	4,188.93	3/4	4,381.95	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021





# BARGE "MPX 421"

## 3 STBD

### INNAGE TABLE

#### 10" HATCH

#### GAUGE HEIGHT 18'-02"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	2.15	0	299.64	0	641.89	0	983.87	0	1,325.92	0	1,668.18	0	2,010.44	0	2,352.71	0	2,694.80	0	3,036.19
1/4	3.93	1/4	306.77	1/4	649.02	1/4	990.99	1/4	1,333.05	1/4	1,675.31	1/4	2,017.57	1/4	2,359.84	1/4	2,701.92	1/4	3,043.31
1/2	5.71	1/2	313.90	1/2	656.15	1/2	998.10	1/2	1,340.18	1/2	1,682.44	1/2	2,024.70	1/2	2,366.97	1/2	2,709.03	1/2	3,050.42
3/4	7.50	3/4	321.03	3/4	663.28	3/4	1,005.22	3/4	1,347.31	3/4	1,689.57	3/4	2,031.83	3/4	2,374.10	3/4	2,716.14	3/4	3,057.53
1	9.28	1	328.16	1	670.41	1	1,012.34	1	1,354.44	1	1,696.70	1	2,038.97	1	2,381.23	1	2,723.25	1	3,064.64
1/4	12.84	1/4	335.29	1/4	677.54	1/4	1,019.45	1/4	1,361.57	1/4	1,703.83	1/4	2,046.10	1/4	2,388.36	1/4	2,730.36	1/4	3,071.75
1/2	16.41	1/2	342.42	1/2	684.68	1/2	1,026.57	1/2	1,368.70	1/2	1,710.96	1/2	2,053.23	1/2	2,395.49	1/2	2,737.48	1/2	3,078.87
3/4	19.97	3/4	349.55	3/4	691.81	3/4	1,033.69	3/4	1,375.83	3/4	1,718.09	3/4	2,060.36	3/4	2,402.62	3/4	2,744.59	3/4	3,085.98
2	23.54	2	356.68	2	698.94	2	1,040.80	2	1,382.96	2	1,725.22	2	2,067.49	2	2,409.75	2	2,751.70	2	3,093.09
1/4	28.89	1/4	363.81	1/4	706.07	1/4	1,047.92	1/4	1,390.09	1/4	1,732.35	1/4	2,074.62	1/4	2,416.88	1/4	2,758.81	1/4	3,100.20
1/2	34.23	1/2	370.94	1/2	713.20	1/2	1,055.04	1/2	1,397.22	1/2	1,739.48	1/2	2,081.75	1/2	2,424.01	1/2	2,765.93	1/2	3,107.32
3/4	39.58	3/4	378.07	3/4	720.33	3/4	1,062.15	3/4	1,404.35	3/4	1,746.61	3/4	2,088.88	3/4	2,431.14	3/4	2,773.04	3/4	3,114.43
3	44.93	3	385.20	3	727.46	3	1,069.27	3	1,411.48	3	1,753.75	3	2,096.01	3	2,438.27	3	2,780.15	3	3,121.54
1/4	51.59	1/4	392.33	1/4	734.59	1/4	1,076.39	1/4	1,418.61	1/4	1,760.88	1/4	2,103.14	1/4	2,445.40	1/4	2,787.26	1/4	3,128.64
1/2	58.26	1/2	399.46	1/2	741.72	1/2	1,083.51	1/2	1,425.74	1/2	1,768.01	1/2	2,110.27	1/2	2,452.53	1/2	2,794.38	1/2	3,135.75
3/4	64.92	3/4	406.59	3/4	748.85	3/4	1,090.63	3/4	1,432.87	3/4	1,775.14	3/4	2,117.40	3/4	2,459.66	3/4	2,801.49	3/4	3,142.85
4	71.59	4	413.72	4	755.98	4	1,097.75	4	1,440.00	4	1,782.27	4	2,124.53	4	2,466.80	4	2,808.60	4	3,149.95
1/4	78.70	1/4	420.85	1/4	763.11	1/4	1,104.88	1/4	1,447.13	1/4	1,789.40	1/4	2,131.66	1/4	2,473.93	1/4	2,815.71	1/4	3,157.05
1/2	85.80	1/2	427.98	1/2	770.24	1/2	1,112.01	1/2	1,454.26	1/2	1,796.53	1/2	2,138.79	1/2	2,481.06	1/2	2,822.82	1/2	3,164.14
3/4	92.91	3/4	435.11	3/4	777.37	3/4	1,119.13	3/4	1,461.39	3/4	1,803.66	3/4	2,145.92	3/4	2,488.19	3/4	2,829.94	3/4	3,171.24
5	100.02	5	442.24	5	784.50	5	1,126.26	5	1,468.53	5	1,810.79	5	2,153.05	5	2,495.32	5	2,837.05	5	3,178.33
1/4	107.14	1/4	449.38	1/4	791.63	1/4	1,133.39	1/4	1,475.66	1/4	1,817.92	1/4	2,160.18	1/4	2,502.45	1/4	2,844.16	1/4	3,185.43
1/2	114.27	1/2	456.51	1/2	798.76	1/2	1,140.52	1/2	1,482.79	1/2	1,825.05	1/2	2,167.31	1/2	2,509.58	1/2	2,851.27	1/2	3,192.52
3/4	121.39	3/4	463.64	3/4	805.89	3/4	1,147.65	3/4	1,489.92	3/4	1,832.18	3/4	2,174.44	3/4	2,516.71	3/4	2,858.39	3/4	3,199.62
6	128.51	6	470.77	6	813.02	6	1,154.78	6	1,497.05	6	1,839.31	6	2,181.58	6	2,523.84	6	2,865.50	6	3,206.71
1/4	135.64	1/4	477.90	1/4	820.15	1/4	1,161.91	1/4	1,504.18	1/4	1,846.44	1/4	2,188.71	1/4	2,530.97	1/4	2,872.61	1/4	3,213.81
1/2	142.77	1/2	485.03	1/2	827.27	1/2	1,169.04	1/2	1,511.31	1/2	1,853.57	1/2	2,195.84	1/2	2,538.10	1/2	2,879.72	1/2	3,220.90
3/4	149.90	3/4	492.16	3/4	834.40	3/4	1,176.17	3/4	1,518.44	3/4	1,860.70	3/4	2,202.97	3/4	2,545.24	3/4	2,886.84	3/4	3,228.00
7	157.03	7	499.29	7	841.53	7	1,183.31	7	1,525.57	7	1,867.83	7	2,210.10	7	2,552.37	7	2,893.95	7	3,235.09
1/4	164.16	1/4	506.42	1/4	848.65	1/4	1,190.44	1/4	1,532.70	1/4	1,874.96	1/4	2,217.23	1/4	2,559.50	1/4	2,901.06	1/4	3,242.19
1/2	171.29	1/2	513.55	1/2	855.77	1/2	1,197.57	1/2	1,539.83	1/2	1,882.09	1/2	2,224.36	1/2	2,566.63	1/2	2,908.17	1/2	3,249.28
3/4	178.42	3/4	520.68	3/4	862.89	3/4	1,204.70	3/4	1,546.96	3/4	1,889.22	3/4	2,231.49	3/4	2,573.76	3/4	2,915.28	3/4	3,256.38
8	185.55	8	527.81	8	870.01	8	1,211.83	8	1,554.09	8	1,896.36	8	2,238.62	8	2,580.89	8	2,922.40	8	3,263.47
1/4	192.68	1/4	534.94	1/4	877.13	1/4	1,218.96	1/4	1,561.22	1/4	1,903.49	1/4	2,245.75	1/4	2,588.02	1/4	2,929.51	1/4	3,270.57
1/2	199.81	1/2	542.07	1/2	884.24	1/2	1,226.09	1/2	1,568.35	1/2	1,910.62	1/2	2,252.88	1/2	2,595.16	1/2	2,936.62	1/2	3,277.66
3/4	206.95	3/4	549.20	3/4	891.36	3/4	1,233.22	3/4	1,575.48	3/4	1,917.75	3/4	2,260.01	3/4	2,602.29	3/4	2,943.73	3/4	3,284.76
9	214.08	9	556.33	9	898.47	9	1,240.35	9	1,582.61	9	1,924.88	9	2,267.14	9	2,609.42	9	2,950.85	9	3,291.85
1/4	221.21	1/4	563.46	1/4	905.59	1/4	1,247.48	1/4	1,589.74	1/4	1,932.01	1/4	2,274.27	1/4	2,616.54	1/4	2,957.96	1/4	3,298.95
1/2	228.34	1/2	570.59	1/2	912.71	1/2	1,254.61	1/2	1,596.87	1/2	1,939.14	1/2	2,281.40	1/2	2,623.66	1/2	2,965.07	1/2	3,306.04
3/4	235.47	3/4	577.72	3/4	919.82	3/4	1,261.74	3/4	1,604.00	3/4	1,946.27	3/4	2,288.53	3/4	2,630.78	3/4	2,972.18	3/4	3,313.14
10	242.60	10	584.85	10	926.94	10	1,268.87	10	1,611.14	10	1,953.40	10	2,295.66	10	2,637.90	10	2,979.29	10	3,320.23
1/4	249.73	1/4	591.98	1/4	934.06	1/4	1,276.00	1/4	1,618.27	1/4	1,960.53	1/4	2,302.79	1/4	2,645.02	1/4	2,986.41	1/4	3,327.33
1/2	256.86	1/2	599.11	1/2	941.17	1/2	1,283.13	1/2	1,625.40	1/2	1,967.66	1/2	2,309.92	1/2	2,652.13	1/2	2,993.52	1/2	3,334.42
3/4	263.99	3/4	606.24	3/4	948.29	3/4	1,290.26	3/4	1,632.53	3/4	1,974.79	3/4	2,317.05	3/4	2,659.24	3/4	3,000.63	3/4	3,341.52
11	271.12	11	613.37	11	955.40	11	1,297.39	11	1,639.66	11	1,981.92	11	2,324.19	11	2,666.35	11	3,007.74	11	3,348.61
1/4	278.25	1/4	620.50	1/4	962.52	1/4	1,304.52	1/4	1,646.79	1/4	1,989.05	1/4	2,331.32	1/4	2,673.47	1/4	3,014.86	1/4	3,355.71
1/2	285.38	1/2	627.63	1/2	969.64	1/2	1,311.65	1/2	1,653.92	1/2	1,996.18	1/2	2,338.45	1/2	2,680.58	1/2	3,021.97	1/2	3,362.81
3/4	292.51	3/4	634.76	3/4	976.75	3/4	1,318.78	3/4	1,661.05	3/4	2,003.31	3/4	2,345.58	3/4	2,687.69	3/4	3,029.08	3/4	3,369.91

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP 10" HATCH ON EXPANSION DOME.  
 GAUGE POINT: (10" HATCH) LOCATED 3'-03" OFF CENTERLINE AND 82'-08" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "MPX 421"

**3 STBD  
INNAGE TABLE  
10" HATCH  
GAUGE HEIGHT 18'-02"**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,371.48	0	3,581.17	0	3,791.08	0	4,000.72	0	4,209.71	0	4,400.41	0		0		0		0	
1/4	3,375.82	1/4	3,585.55	1/4	3,795.46	1/4	4,005.07	1/4	4,214.06	1/4	4,402.11	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,380.15	1/2	3,589.92	1/2	3,799.83	1/2	4,009.42	1/2	4,218.42	1/2	4,403.82	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,384.49	3/4	3,594.29	3/4	3,804.20	3/4	4,013.78	3/4	4,222.77	3/4	4,405.53	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3,388.83	1	3,598.67	1	3,808.57	1	4,018.13	1	4,227.12	1	4,407.24	1	1	1	1	1	1	1	1
1/4	3,393.18	1/4	3,603.04	1/4	3,812.95	1/4	4,022.49	1/4	4,231.48	1/4	4,408.95	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,397.54	1/2	3,607.41	1/2	3,817.32	1/2	4,026.84	1/2	4,235.83	1/2	4,410.66	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,401.89	3/4	3,611.78	3/4	3,821.69	3/4	4,031.19	3/4	4,240.19	3/4	4,412.36	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	3,406.25	2	3,616.16	2	3,826.07	2	4,035.55	2	4,244.54	2	4,414.07	2	2	2	2	2	2	2	2
1/4	3,410.62	1/4	3,620.53	1/4	3,830.44	1/4	4,039.90	1/4	4,248.89	1/4	4,415.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,415.00	1/2	3,624.90	1/2	3,834.81	1/2	4,044.26	1/2	4,253.25	1/2	4,416.23	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,419.37	3/4	3,629.28	3/4	3,839.19	3/4	4,048.61	3/4	4,257.60	3/4	4,417.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	3,423.74	3	3,633.65	3	3,843.56	3	4,052.96	3	4,261.96	3	4,418.38	3	3	3	3	3	3	3	3
1/4	3,428.11	1/4	3,638.02	1/4	3,847.93	1/4	4,057.32	1/4	4,266.31	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,432.49	1/2	3,642.40	1/2	3,852.31	1/2	4,061.67	1/2	4,270.66	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,436.86	3/4	3,646.77	3/4	3,856.68	3/4	4,066.03	3/4	4,275.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	3,441.23	4	3,651.14	4	3,861.05	4	4,070.38	4	4,279.37	4		4	4	4	4	4	4	4	4
1/4	3,445.61	1/4	3,655.52	1/4	3,865.42	1/4	4,074.73	1/4	4,283.71	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,449.98	1/2	3,659.89	1/2	3,869.80	1/2	4,079.09	1/2	4,288.05	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,454.35	3/4	3,664.26	3/4	3,874.17	3/4	4,083.44	3/4	4,292.39	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	3,458.73	5	3,668.64	5	3,878.54	5	4,087.80	5	4,296.73	5		5	5	5	5	5	5	5	5
1/4	3,463.10	1/4	3,673.01	1/4	3,882.92	1/4	4,092.15	1/4	4,301.06	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,467.47	1/2	3,677.38	1/2	3,887.29	1/2	4,096.50	1/2	4,305.38	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,471.85	3/4	3,681.75	3/4	3,891.66	3/4	4,100.86	3/4	4,309.71	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	3,476.22	6	3,686.13	6	3,896.04	6	4,105.21	6	4,314.04	6		6	6	6	6	6	6	6	6
1/4	3,480.59	1/4	3,690.50	1/4	3,900.41	1/4	4,109.57	1/4	4,318.36	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,484.97	1/2	3,694.87	1/2	3,904.78	1/2	4,113.92	1/2	4,322.69	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,489.34	3/4	3,699.25	3/4	3,909.16	3/4	4,118.27	3/4	4,327.01	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	3,493.71	7	3,703.62	7	3,913.53	7	4,122.63	7	4,331.34	7		7	7	7	7	7	7	7	7
1/4	3,498.08	1/4	3,707.99	1/4	3,917.90	1/4	4,126.98	1/4	4,335.65	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,502.46	1/2	3,712.37	1/2	3,922.28	1/2	4,131.34	1/2	4,339.97	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,506.83	3/4	3,716.74	3/4	3,926.65	3/4	4,135.69	3/4	4,344.29	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	3,511.20	8	3,721.11	8	3,931.02	8	4,140.04	8	4,348.61	8		8	8	8	8	8	8	8	8
1/4	3,515.58	1/4	3,725.49	1/4	3,935.38	1/4	4,144.40	1/4	4,352.89	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,519.95	1/2	3,729.86	1/2	3,939.74	1/2	4,148.75	1/2	4,357.18	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,524.32	3/4	3,734.23	3/4	3,944.11	3/4	4,153.11	3/4	4,361.46	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	3,528.70	9	3,738.60	9	3,948.47	9	4,157.46	9	4,365.74	9		9	9	9	9	9	9	9	9
1/4	3,533.07	1/4	3,742.98	1/4	3,952.82	1/4	4,161.81	1/4	4,369.59	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,537.44	1/2	3,747.35	1/2	3,957.18	1/2	4,166.17	1/2	4,373.44	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,541.82	3/4	3,751.72	3/4	3,961.53	3/4	4,170.52	3/4	4,377.28	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,546.19	10	3,756.10	10	3,965.88	10	4,174.88	10	4,381.13	10		10	10	10	10	10	10	10	10
1/4	3,550.56	1/4	3,760.47	1/4	3,970.24	1/4	4,179.23	1/4	4,383.97	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,554.93	1/2	3,764.84	1/2	3,974.59	1/2	4,183.58	1/2	4,386.81	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,559.31	3/4	3,769.22	3/4	3,978.95	3/4	4,187.94	3/4	4,389.65	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,563.68	11	3,773.59	11	3,983.30	11	4,192.29	11	4,392.50	11		11	11	11	11	11	11	11	11
1/4	3,568.05	1/4	3,777.96	1/4	3,987.65	1/4	4,196.65	1/4	4,394.47	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,572.43	1/2	3,782.34	1/2	3,992.01	1/2	4,201.00	1/2	4,396.45	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,576.80	3/4	3,786.71	3/4	3,996.36	3/4	4,205.35	3/4	4,398.43	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/30/2021 CL  
CALCULATED: 07/01/2021 CL  
PRINTED: 07/01/2021 SW

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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