

MicroBulk

Why Buy Taylor-Wharton MicroBulk?

Taylor-Wharton understands the evolving needs of customers and have leveraged their cryogenic experience to provide a premiun new MicroBulk offering.

- Stock Inventory of Standard Models for Immediate Shipment.
- Standard Sizes (1000-5000 Liters) and a Broad Range of Working Pressures.
- Quality Materials: Durable Stainless Steel, Super Insulation, Upgraded Components.
- Units Can Be Filled with any and All Cryogenic Delivery Trucks.
- Reliable: Built to Last, 5 Year Vacuum Warranty.
- High Quality Galvanized Steel Pallet.
- 3,500 SCFH Gaseous Flow Rates as Standard Skid Package; **3x Higher** Flow Rates Compared to Previous MB Designs.
- Isolation and Extended Stem Cryogenic Valves Included as Standard Features.





MicroBulk Tank Specifications

PART / MODEL NO.		MB1000MP / MB1000VHP	MB2000MP / MB2000VHP	MB3000MP / MB3000VHP	MB5000MP / MB5000VHP	
MAWP		PSI (MPa)	250 (1.72) 500 (3.45)	250 (1.72) 500 (3.45)	250 (1.72) 500 (3.45)	250 (1.72) 508 (3.5)
Operation Pressure		PSI (MPa)	17.4 (1.2) 435 (3.0)	174 (1.2) 435 (3.0)	174 (1.2) 435 (3.0)	174 (1.2) 435 (3.0)
Cross Capacity		US gallon (m ³)	280 (1.06)	568 (2.15)	782 (2.96)	1320 (5)
Net Capacity		US gallon (m ³)	251 (0.95)	512 (1.94)	713 (2.7)	1189 (4.5)
Estimated tare weight		Lbs (kg)	2315 (1050) 2469 (1120)	3660 (1660) 3858 (1750)	3968 (1800) 4806 (2180)	6173 (2800) 7826 (3550)
Capacity						
Nitrogen	Gas	SCF (NM ³)	23351 (614)	47707 (12954)	66371 (1745)	110639 (2908)
	Liquid	Lbs (kg)	1692 (768)	3458 (1568)	4811 (2182)	8019 (3637)
Oxygen	Gas Liquid	SCF (NM ³) Lbs (kg)	28872 (759) 2390 (1084)	58986 (1550) 4884 (2215)	82063 (2157) 6794 (3082)	136797 (3596) 11326 (5137)
Argon	Gas Liquid	SCF (NM ³) Lbs (kg)	28213 (742) 2917 (1323)	57640 (1515) 5959 (2703)	80191 (2108) 8290 (3760)	133676 (3514) 13820 (6269)
CO2	Gas Liquid	SCF (NM ³) Lbs (kg)	18585 (489) 2127 (965)	37969 (998) 4345 (1971)	52824 (1389) 6044 (2742)	88055 (2315) 10076 (4570)
Tank Diameter		Inches (mm)	43.3 (1100)	53.1 (1350)	59.0 (1500)	79.4 (2016)
Pallet Depth		Inches (mm)	61.0 (1550)	70.9 (1800)	74.0 (1880)	99.6 (2530)
Pallet Width		Inches (mm)	61.0 (1550)	70.9 (1800)	78.7 (2000)	86.6 (2200)
Pallet Height		Inches (mm)	90 (2290)	109.4 (2779)	110 (2804)	118.1 (3000)
Max N2/O2/AR Withdrawal Rate		SCFH (NM ³ /h)	1766 (50)	3531 (100)	3531 (100)	3531 (100)
Max CO2 Withdrawal Rate		SCFH (NM ³ /h)	620 (18)	1230 (35)	1230 (35)	1230 (35)

*includes pallet. All specification are norminal.

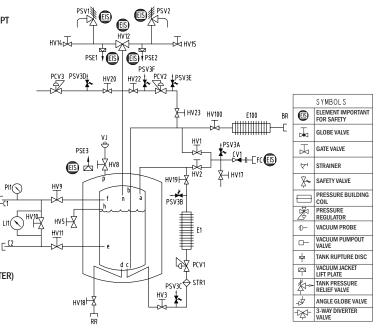
Piping and Instrument Legend

а	TOP FILL LINE 1/2"	PI1
	(1000 THRU 3000-LITERS)	LI1
а	TOP FILL LINE 1" (5000-LITER)	HV17
b	BOTTOM FILL LINE 1/2"	PCV2
	(1000 THRU 3000-LITERS)	PCV3
b	BOTTOM FILL LINE 1" (5000-LITER)	
С	LIQUID WITHDRAWAL LINE, 1/2"	HV10
d	LIQUID WITHDRAWAL LINE, 1/2"	HV11
е	LIQUID INSTRUMENT LINE, 3/8"0D	HV9
f	GAS INSTRUMENT LINE, 3/8"0D	E1
h	FULL TRYCOCK LINE, 1/2"	PCV1
n	SAFETY VENT LINE, 1/2"	RR
t	VACUUM PUMPOUT LINE	PSV18
	& JACKET RELIEF DEVICE, 1/2"	PSV3A
Р	VACUUM PROBE, 1/8"	PSV3F
HV1	FILLING LIQUID BOTTOM VALVE, 1/2"	HV3
HV2	FILLING GAS TOP VALVE, 1/2"	HV148
HV5	FULL TRYCOCK VALVE, 1/2"	E100
HV100	GAS SUPPLY VALVE, 1/2"	VJ
HV18	BOTTOM LIQUID VALVE, 1/2"	HV8
BR	GAS SUPPLY CONNECTION, 1/2" +	STR1
	1/2" FNPT	FC
PSE3	VACUUM PUMP & VACUUM	CV1
	BURSTING DISC, 1 1/2"	
C1	INSTRUMENT GAS CONNECTION, 1/4" FNPT	CV1
C2	I/4 FNFT INSTRUMENT LIQUID CONNECTION,	HV19
62	1/4" FNPT	HV20
PSE1&2	BURSTING DISC, 1/2" MNPT	HV22
HV12	SAFETY CHANGEOVER VALVE. BRONZE	HV23
111 12		

PI1	TANK PRESSURE GAUGE , G 1/2"	
LI1	LIQUID LEVEL GAUGE, 1/4" FNPT	
HV17	FILL LINE PURGE VALVE, 1/2" SW	
PCV2	ECONOMIZER REGULATOR VALVE, 1/4", FN	P
PCV3	BACK PRESSURE REGULATOR VALVE, 1/4" FNPT	
HV10	EQUALIZATION VALVE, 1/4" MNPT	
HV11	LIQUID ISOLATION VALVE, 1/4" MNPT	
HV9	GAS ISOLATION VALVE, 1/4" MNPT	
E1	PRESSURE BUILDING COIL	
PCV1	PRESSURE REGULATOR, 1/4" FNPT	
RR	LIQUID CONNECTION, 1/2" FNPT	
PSV1&2	SAFETY VALVE, 1/2" FNPT	
PSV3A	THERMAL EXPANSION VALVE, 1/4" MNPT	
PSV3F	THERMAL EXPANSION VALVE, 1/4" MNPT	
HV3	PRESSURE BUILDUP VALVE, 1/2" SW	
HV14&15	SAFETY LINE PURGE VALVE, 1/4" MNPT	
E100	ATMOSPHERIC VAPORIZER	_
٧J	VACUUM PROBE, 1/8" MVPT	-1
HV8	VACUUM PROBE VALVE, 1/8" FNPT	
STR1	STRAINER, 1/2" SW	l
FC	FILLING CONNECTION, 1 1/2"	Г
CV1	CHECK VALVE FILL PORT. ½" FNPT	L
	(1000 THRU 3000-LITERS)	
CV1	CHECK VALVE FILL PORT. 1" FNPT (5000-LIT	E
HV19	ISOLATION VALVE FOR PBU, 1/2" SW	
HV20	ISOLATION VALVE FOR PVC2, 1/2" FNPT	
HV22	ISOLATION VALVE FOR PVC3, 1/2" FNPT	

ISOLATION VALVE FOR PVC3, 1/2" FNPT

Piping and Instrument Diagram (1000-5000 liter units)





The Americas Phone: (281) 738-2863

Asia-Pacific & Europe Phone: (+60 3) 5191-3003

Email

sales@twcryo.com customerservice@twcryo.com