

Description		26L	34L	38L	40L	51L	58L	76L	118L	120L	129L	160L	445L	650L	594L	791L	900L	936L	936L ⁵	994L ⁵
Size	Units	282x762	274x835	356x726	278x934	400x743	446x699	497x715	446x699	335x2170	394x1640	406x1625	26x75	26x100	28x75	30.5x85	1009x1359	30.5x97.5	30.5x102	30.5x107
Typical Use	-	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Passenger Car	Truck & Bus	Truck & Transportable	Truck & Transportable	Truck & Transportable	Truck & Transportable	Aerospace	Truck & Transportable	Transportable	Transportable
Part Number Family	-	109649	109176	108184	110500	109602	113426	113052	113435	113733	110463	108851	117408-H	116474-H	118216-H	118605-H	108956	118292-H	117629-H	117418-H
Composite Tank	-	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4	Type 4
Component Material	-	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Aluminum	Aluminum	Aluminum	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Service Gas	-	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂	H ₂
Mounting Method	-	Strap	Strap	Strap	Strap	Strap	Strap	Strap	Strap	Strap & Collar	Strap	Strap	Strap & Collar	Strap & Collar	Strap & Collar	Strap & Collar	Strap & Collar	Strap & Collar	Strap & Collar	Strap & Collar
Adapter Thread	-	2-12 UN-2B	2-12 UN-2B	2-12 UN-2B	2-12 UN-2B	1-1/2-12 UN-2B	1-5/8-12 UN Nonstandard Pitch	1-5/8-12 UN Nonstandard Pitch	1-5/8-12 UN Nonstandard Pitch	1-1/2-12 UN-2B	2-12 UN-2B	2-12 UN-2B	SAE-20	SAE-20	SAE-20	SAE-20	3/8 VCO Tube Male & Female	SAE-20	SAE-20 & SAE-8	SAE-20 & SAE-8
Valve Interface Seal	-	SAE	SAE	SAE	SAE	SAE	SAE (Dual)	SAE (Dual)	SAE (Dual)	SAE	SAE	SAE	SAE (Dual)	SAE (Dual)	SAE (Dual)	SAE (Dual)	SAE (Dual)	SAE (Dual)	SAE (Dual)	SAE (Dual)
Approved Tank Valves	-	Customer Valve KGV70S See Note 3	GFI TV-175 See Note 3	Not Available OTAV See Note 3	GFI TV-175 See Note 3	Customer Valve KGV70S See Note 3	Customer Valve See Note 3	Customer Valve See Note 3	Customer Valve See Note 3	Customer Valve See Note 3	Dynetek BV-700-04-0 See Note 3	Not Available Manual Valve See Note 3	Not Available Manual Valve See Note 3	See Note 3	See Note 3	See Note 3	See Note 3	See Note 3	See Note 3	See Note 3
Design Life	years	15	15	20	15	15	15	15	15	15	15	15	20	20	20	20	1,820 Cycles	20	15	15

Code/Standard Compliance Europe / Asia		EIHP Rev. 12b	EIHP	EIHP Rev. 12b	EIHP	Reiji Kijun	TBD	EC79 ⁶	TBD	EC79	TBD	Reiji Kijun	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Tank Capacity (Water Volume)	Liter	26	34	38	39	51	58	76	118	120	129	164	445	644	594	810	901	936	936	994
Diameter, Max. @ 125% SP	mm	289	302	362	302	424	452	504	597	340	427	424	690	690	745	783	1,022	828	782	782
Length, Max. @ 125% SP	mm	769	842	733	941	753	705	721	800	2,182	1,651	1,641	1,899	2,561	2,042	2,306	1,371	2,607	2,607	2,753
Tank Weight (without valve)	kg	24	16	35	18	43	41	51	73	80	92	49	141	178	153	211	41	239	229	245
Service Pressure @ 15°C	MPa	70	35	70	35	70	70	70	70	70	70	35	35	35	35	35	8.3	35	35	35
Tank + Gas Weight @ 35/70 MPa	kg	25	17	37	19	45	43	54	78	85	97	53	152	193	167	230	47	261	251	269
H₂ Mass @ 35/70 MPa¹	kg	1.0	0.8	1.5	0.9	2.1	2.3	3.1	4.7	4.8	5.2	3.9	10.7	15.5	14.3	19.5	6.0	22.5	22.5	23.9
H₂ Volume @ 35/70 MPa¹	Nm³	12.3	9.6	17.9	11.0	24.1	28.0	35.9	56.9	56.7	60.9	46.2	125.5	181.6	167.5	228.4	71.5	263.9	263.9	280.2
Usable Gas Mass @ 2-35/70 MPa¹	kg	1.0	0.8	1.5	0.9	2.0	2.2	2.9	4.6	4.6	5.0	3.7	10.0	14.4	13.3	18.1	4.5	20.9	20.9	22.2
Container Temperature	°C	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	-40 to +82	0 to +82	-40 to +82	-40 to +82	-40 to +82
Settled Gas Temperature	°C	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	-40 to +57	0 to +57	-40 to +57	-40 to +57	-40 to +57

Code/Standard Compliance North America		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	DOT SP	DOT SP
Tank Capacity (Water Volume)	Gallons	6.9	9.0	10.0	10.3	13.5	15.3	20.1	31.2	31.7	34.1	43.3	117.6	170.1	156.9	214.0	238.0	247.3	247.3	262.6
Diameter, Max. @ 125% SP	Inches	11.4	11.9	14.2	11.9	16.7	17.8	19.8	23.5	13.4	16.8	16.7	27.2	27.2	29.3	30.8	40.3	32.6	30.8	30.8
Length, Max. @ 125% SP	Inches	30.3	33.1	28.9	37.0	29.7	27.8	28.4	31.5	85.9	65.0	64.6	74.8	100.8	80.4	90.8	54.0	102.6	102.6	108.4
Tank Weight (without valve)	lbs	53	35	77	40	95	90	112	161	176	202	108	310	392	337	464	91	526	504	539
Service Pressure @ 70°F	psi	10,153	5,076	10,153	5,076	10,153	10,153	10,153	10,153	10,153	10,153	5,076	5,076	5,076	5,076	5,076	1,200	5,076	5,076	5,076
Tank + Gas Weight @ 5,076/10,153 psi	lbs	55	37	80	42	99	95	119	171	186	214	116	333	425	367	506	104	574	552	591
H₂ Mass @ 5,076/10,153 psi⁴	lbs	2.3	1.8	3.3	2.0	4.4	5.1	6.6	10.3	10.5	11.3	8.5	23.1	33.4	30.9	42.1	12.9	48.6	48.6	51.6
H₂ Volume @ 5,076/10,153 psi⁴	SCF	436	340	637	390	856	973	1,275	1,979	2,013	2,164	1,638	4,445	6,433	5,933	8,091	2,474	9,349	9,349	9,929
Usable Gas Mass @ 290-5,076/10,153 psi⁴	lbs	2.2	1.6	3.2	1.9	4.3	4.9	6.4	9.9	10.0	10.8	7.9	21.5	31.1	28.7	39.2	9.6	45.3	45.3	48.1
Gasoline Gallon Equiv. (NIST)²	GGE	1.0	0.8	1.5	0.9	2.1	2.3	3.1	4.8	4.8	5.2	3.9	10.7	15.5	14.3	19.4	5.9	22.5	22.5	23.9
Diesel Gallon Equiv. (NIST)²	DGE	0.9	0.7	1.3	0.8	1.8	2.1	2.7	4.2	4.2	4.6	3.5	9.4	13.6	12.5	17.1	5.2	19.7	19.7	20.9
Container Temperature	°F	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	-40 to +185	32 to +185	-40 to +185	-40 to +185	-40 to +185
Settled Gas Temperature	°F	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	-40 to +135	32 to +135	-40 to +135	-40 to +135	-40 to +135

1 - H₂ Mass calculated based on hydrogen density at 15°C
2 - Gasoline and Diesel equivalence determined @ 35 MPa (5,076 psi) and 70°F: (GGE = 1.019*H₂ kg, DGE = .877*GGE)
3 - Contact Quantum for a list of approved valves and part numbers
4 - H₂ Mass calculated based on hydrogen density at 70°F
5 - No foam domes required per DOT SP
6 - Testing complete, certificate has not been applied for

<https://epact.energy.gov/fuel-conversion-factors>

https://www.energy.ca.gov/almanac/transportation_data/gge.html