

ISO/UN High Pressure Cylinders

(at 70 F corresponding to minimum cylinder volume)

	Nom. Dimensions					Service Pressure	Approximate Capacity at Rate Service Pressure						
	Min. Cylinder Volume	Nom. Cylinder Weight	OD	L	tmin		Air	Oxygen	Nitrogen	Argon	Helium	Hydrogen	
	(in ³)	(lb)	(in)	(in)	(in)		(psi)	(ft ³)					
	(liter)	(kg)	(mm)	(mm)	(mm)		(bar)	(m ³)					

ISO 9809-2 Cylinders

8HP298C	2441	81	9.02	46.25	0.17	2900	272.4	296.7	265.7	295.6	255.7	NA
	40	36.8	229	1175	4.24	200	7.7	8.4	7.5	8.37	7.26	NA
8HP350C	2880	93	9.016	53.38	0.17	2900	321.6	350.1	313.5	348.8	301.7	NA
	47.2	42.3	229	1365	4.24	200	9.1	9.91	8.87	9.87	8.54	NA
8HP374C	3051	98	9.02	56.75	0.17	2900	340.7	370.9	332.1	369.5	319.6	NA
	50	45	229	1441	4.24	200	9.65	10.5	9.4	10.46	9.05	NA
8HP318C	1831	95	9.02	37.2	0.24	4351	283.7	318.2	275.4	317.7	275.8	NA
	30	43.2	229	945	6.12	300	8	9	7.7	8.9	7.81	NA
8HP424C	2441	119	9.016	48.1	0.24	4351	378.3	424.2	367.3	423.6	367.7	NA
	40	54.1	229	1222	6.12	300	10.71	12.01	10.4	11.99	10.41	NA
8HP502C	2880	134	9.02	56	0.24	4351	446.3	500.5	433.3	499.7	433.9	NA
	47.2	61.8	229	1422	6.12	300	12.64	14.17	12.27	14.15	12.29	NA
8HP528C	3051	141	9.02	59	0.24	4351	472.8	530.3	459	529.4	459.6	NA
	50	64	229	1499	6.12	300	13.39	15.02	13	14.99	13.01	NA
8HP531C	3051	162	9.02	59.8	0.27	4500	484.4	544	474.3	547	474.9	NA
	50	73.5	229	1519	6.73	310	13.7	15.4	13.4	15.4	13.4	NA
8HP501C	2750	140	9.41	50.5	0.27	4500	436.9	491	424.1	490.5	426.6	NA
	45.1	63.5	239	1282	6.96	310	12.37	13.9	12.01	13.89	12.08	NA
8HP508C	2844	150	9.41	52.38	0.27	4500	452	508	438.8	507.4	441.4	NA
	46.6	68	239	1330	6.96	310	12.8	14.38	12.42	14.36	12.5	NA
8HP536C	2750	170	9.41	52.5	0.31	5002	471.8	531.1	456	532	467.5	NA
	45.1	77.1	239	1334	7.85	345	13.36	15.04	12.91	15.06	13.23	NA
8HP590C	3050	184	9.41	57.5	0.31	5003	523.6	589.4	569.6	590.4	606	NA
	50	83.5	239	1461	7.8	345	14.82	16.69	16.13	16.72	17.16	NA
8HP586C	2641	195	9.41	52	0.37	6003	510.5	585.8	493.1	581	524.6	NA
	43.3	88.5	239	1321	9.5	414	14.46	16.58	13.96	16.45	14.85	NA
8HP675C	3050	219	9.41	59.25	0.37	6003	722.5	676.9	569.7	671.4	606.2	NA
	50	99.3	239	1505	9.5	414	20.46	19.16	16.13	19.01	17.16	NA
11HP845C	4893	245	11.25	62.5	0.32	4350	758.2	850.4	736.2	849	737.1	NA
	80	111.2	285.8	1588	8.03	300	21.47	24.08	20.85	24.04	20.87	NA

ISO 9809-1 Cylinders

8BC218	1831	78.5	9.016	36.1	0.2	2900	204.5	222.6	199.3	221.8	191.8	NA
	30	35.6	229	917	4.96	200	5.79	6.3	5.64	6.28	5.43	NA
8BC297	2441	100.5	9.02	47.1	0.2	2900	272.6	296.7	265.7	295.7	255.7	NA
	40	45.6	229	1196	4.96	200	7.72	7.52	7.52	8.37	7.24	NA
8BC373	3051	120.5	9.02	57.6	0.2	2900	340.7	370.9	332.1	369.5	319.6	NA
	50	54.7	229	1463	4.96	200	9.65	10.5	9.4	10.46	9.05	NA
8BC295i	2447	135	9.016	50.5	0.27	3219	298.6	327.9	290.9	326.7	281.8	273.2
	40	61.4	229	1283	6.8	222	8.45	9.28	8.23	9.25	7.98	7.73
8BC370i	3058	161	9.016	61	0.27	3219	373.1	409.7	363.5	408.3	352.1	341.4
	50	73	229	1549	6.8	222	10.56	11.6	10.29	11.56	9.97	9.66
10BC100i	4079	187	10.68	58	0.25	2553	406.4	437.8	396.7	436.2	379.7	370.9
	66.8	84.8	271.3	1473	6.4	176	(10.49) 11.5	(11.21) 12.4	(10.26) 11.23	(11.17) 12.35	(9.78) 10.75	(9.6) 10.5
11BC615i	4893	273	11.25	64	0.34	3335	(563.3) 614.1	(614.7) 676.1	(548.8) 597.8	(612.5) 673.8	(528.9) 581.4	(513.8) 562.9

	Nom. Dimensions					Approximate Capacity at Rate Service Pressure						
	Min. Cylinder Volume	Nom. Cylinder Weight	OD	L	tmin	Service Pressure	Air	Oxygen	Nitrogen	Argon	Helium	Hydrogen
	(in ³)	(lb)	(in)	(in)	(in)	(psi)	(ft ³)					
	(liter)	(kg)	(mm)	(mm)	(mm)	(bar)	(m ³)					
	80	123.8	285.8	1626	8.72	230	(15.95) 17.39	(17.4) 19.1	(15.5) 16.9	(17.34) 19	(14.9) 16.4	(14.5) 15.9
8BC250i	2640 43.2	115 52.2	9.21 234	51 1295	0.21 5.36	2516 173	7.74 8.73	8.25 8.6	7.56 9.27	8.22 8.4	7.21 9.24	7.1 8.04
8BC300i	2995 49	134 60.8	9.26 235.2	55.5 1410	0.23 5.72	2666 184	8 8.78	8.58 9.49	7.82 8.56	8.55 9.46	7.47 8.22	7.3 8.01

Dual DOT3AA and ISO 9809-1 Cylinders*+

8BC75P	3051	135	9.28	56	0.22	(2300) 2553	(277.2) 303.7	(296) 327.4	(270.9) 296.7	(295) 326.3	(258.4) 284	(253.1) 277.3
	50	61	235	1422	5.5	(158) 176	(7.84) 8.6	(8.38) 9.27	(7.67) 8.4	(8.35) 9.24	(7.32) 8.04	(7.1) 7.8
8BC295P	2447	135	9.016	50.5	0.27	(2900) 3219	(273.3) 298.6	(297.4) 327.9	(266.4) 290.9	(296.4) 326.7	(256.3) 281.8	(249.3) 273.2
	40	61.4	229	1283	6.8	(200) 222	(7.73) 8.45	(8.42) 9.28	(7.54) 8.23	(8.39) 9.25	(7.25) 7.98	(7.06) 7.73
8BC370P	3058	161	9.016	61	0.27	(2900) 3219	(341.5) 373.1	(371.7) 409.7	(332.9) 363.5	(370.4) 408.3	(320.3) 352.1	(311.6) 341.4
	50	73	229	1549	6.8	(200) 222	(9.67) 10.56	(10.52) 11.6	(9.42) 10.29	(10.48) 11.56	(9.07) 9.97	(8.82) 9.66
10BC100P	4079	187	10.68	58	0.25	(2300) 2553	(370.5) 406.4	(395.7) 437.8	(362.2) 396.7	(394.4) 436.2	(345.5) 379.7	(338.4) 370.9
	66.8	84.8	271.3	1473	6.4	(158) 176	(10.49) 11.5	(11.21) 12.4	(10.26) 11.23	(11.17) 12.35	(9.78) 10.75	(9.6) 10.5
11BC615P	4893	273	11.25	64	0.34	(3000) 3335	(563.3) 614.1	(614.7) 676.1	(548.8) 597.8	(612.5) 673.8	(528.9) 581.4	(513.8) 562.9
	80	123.8	285.8	1626	8.72	(207) 230	(15.95) 17.39	(17.4) 19.1	(15.5) 16.9	(17.34) 19	(14.9) 16.4	(14.5) 15.9
8BC250P	2640	115	9.21	51	0.21	(2265) 2516	(273.4) 7.74	(291.5) 8.25	(267.2) 7.56	(290.6) 8.22	(254.8) 7.21	(249.7) 7.1
	43.2	52.2	234	1295	5.36	(156) 173	(308.4) 8.73	(304) 8.6	(327.6) 9.27	(296.7) 8.4	(326.5) 9.24	(284.2) 8.04
8BC300P	2995	134	9.26	55.5	0.23	(2400) 2666	(282.6) 8	(303.2) 8.58	(276.4) 7.82	(302.1) 8.55	(263.9) 7.47	(258.2) 7.3
	49	60.8	235.2	1410	5.72	(165) 184	(310.1) 8.78	(335.4) 9.49	(302.6) 8.56	(334.2) 9.46	(290.3) 8.22	(283.0) 8.01

Notes:

- * For Dual DOT/ISO Spec Cylinders, the DOT capacities are listed in parenthesis corresponding to DOT rated working
- + These cylinders are also used in liquefied gas service such as CO2 and related mixtures.
- Cylinders are also available in 3/4 NGT and 25E threading.
- Approx. Cylinder weight does not include the weight of neckring, valve or cap.
- 10% overfill not allowed for these cylinders