

# CNG STEEL CYLINDERS

## CNG Steel Cylinders for Vehicles

### CNG Steel Cylinders for Vehicles (GB 17258)

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)	
GB 17258 (Low Strength)	CNG1-279-50-20T	30CrMo	7.8	279	50	1064	66	20	
	CNG1-279-55-20T				55	1156	71		
	CNG1-279-60-20T				60	1248	76		
	CNG1-279-65-20T				65	1340	81		
	CNG1-279-70-20T				70	1432	86		
	CNG1-279-75-20T				75	1524	91		
	CNG1-279-80-20T				80	1616	96		
	CNG1-279-85-20T				85	1708	101		
	CNG1-279-90-20T				90	1800	106		
GB 17258 (High Strength)	CNG1-279-50-20T I		7.1		279	50	1058		61
	CNG1-279-55-20T I					55	1150		66
	CNG1-279-60-20T I					60	1242		70
	CNG1-279-65-20T I					65	1333		75
	CNG1-279-70-20T I					70	1425		80
	CNG1-279-75-20T I					75	1517		85
	CNG1-279-80-20T I					80	1609		90
	CNG1-279-85-20T I					85	1701		94
	CNG1-279-90-20T I					90	1793		99

### CNG Steel Cylinders for Vehicles (Q/ZC 106)

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
Q/ZC 106	CNG1-400-80-20T	30CrMo	10.6	400	80	904	115.8	20

### CNG Steel Cylinders for Vehicles (ISO 11439)

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ISO 11439	CNP1-279-80-20B	34CrMo4	6.8	279	80	1617	87	20
	CNP1-325-55-20B		7	325	55	875	65	
	CNP1-340-55-20B		7.4	340		825		
	CNP1-356-65-20B		7.7	356	65	905	75	
	CNP1-356-75-20B				75	1020	85	
	CNP1-356-150-20B				150	1850	147	
	CNP1-406-200-20B		8.8	406	200	1870	196	

**CNG Steel Cylinders for Vehicles (ECE R110)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ECE R110	CNP1-279-80-20B	34CrMo4	6.8	279	80	1617	87	20
	CNP1-325-105-20B		7	325	105	1560	102	
	CNP1-325-118-20B				118	1740	113	
	CNP1-356-75-20B		7.7	356	75	1020	85	
	CNP1-356-150-20B				150	1850	147	
	CNP1-406-200-20B				200	1870	196	

**CNG Steel Cylinders for Gas Transport (EN ISO 9809-1)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
EN ISO 9809-1	CNP1-356-150-20B	34CrMo4	7.7	356	150	1850	147	20

Steel Liner Hoop Wrapped Glass-fiber Composite Cylinders for the On-board of Compressed Natural Gas for Automotive Vehicles

**Steel Liner Hoop Wrapped Glass-fiber Composite Cylinders for the On-board of Compressed Natural Gas for Automotive Vehicles (GB 24160)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
GB 24160	CNG2-G-325-55-20B	30CrMo	4.8	325	55	870	46	20
	CNG2-G-325-60-20B				60	930	49	
	CNG2-G-325-65-20B				65	990	52	
	CNG2-G-325-70-20B				70	1020	57	
	CNG2-G-325-75-20B				75	1120	60	
	CNG2-G-325-80-20B				80	1150	63	
	CNG2-G-325-90-20B				90	1315	69	
	CNG2-G-325-100-20B				100	1445	75	
	CNG2-G-325-120-20B				120	1705	88	
	CNG2-G-356-70-20B				5.3	356	70	
	CNG2-G-356-75-20B	75	983	64				
	CNG2-G-356-80-20B	80	1036	68				
	CNG2-G-356-85-20B	85	1090	71				
	CNG2-G-356-90-20B	90	1143	74				
	CNG2-G-356-100-20B	100	1250	81				
	CNG2-G-356-110-20B	110	1357	84				
	CNG2-G-356-120-20B	120	1464	90				
	CNG2-G-356-140-20B	140	1678	103				
	CNG2-G-356-150-20B	150	1785	114				

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Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
GB 24160	CNG2-G-406-85-20B	30CrMo	6.0	406	85	905	72	20
	CNG2-G-406-90-20B				90	946	75	
	CNG2-G-406-95-20B				95	987	79	
	CNG2-G-406-100-20B				100	1028	82	
	CNG2-G-406-110-20B				110	1110	85	
	CNG2-G-406-120-20B				120	1192	130	
	CNG2-G-406-150-20B				150	1438	117	
	CNG2-G-406-180-20B				180	1684	162.5	
	CNG2-G-406-190-20B				190	1766	143	

**Steel Liner Hoop Wrapped Glass-fiber Composite Cylinders for the On-board of Compressed Natural Gas for Automotive Vehicles (Q/ZCCD 101-2016)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
Q/ZCCD 101-2016	CNG2-G-325-55-20B I	30CrMo	4.3	325	55	852	44	20
	CNG2-G-325-60-20B I				60	916	47	
	CNG2-G-325-65-20B I				65	979	50	
	CNG2-G-325-70-20B I				70	1021	53	
	CNG2-G-325-75-20B I				75	1107	56	
	CNG2-G-325-80-20B I				80	1171	59	
	CNG2-G-325-80-20B I					1150		
	CNG2-G-325-90-20B I				90	1299	65	
	CNG2-G-325-100-20B I				100	1427	71	
	CNG2-G-325-120-20B I				120	1695	84	
	CNG2-G-325-60-20A I				60	940	47	
	CNG2-G-325-65-20A I				65	1004	50	
	CNG2-G-325-70-20A I				70	1068	53	
	CNG2-G-325-75-20A I				75	1132	56	
	CNG2-G-325-80-20A I				80	1196	59	
	CNG2-G-325-85-20A I				85	1260	62	
	CNG2-G-325-90-20A I				90	1324	65	
	CNG2-G-325-95-21A I				95	1388	68	
	CNG2-G-325-100-20A I				100	1452	71	
	CNG2-G-325-105-21A I				105	1516	74	
	CNG2-G-325-110-20A I				110	1580	77	
	CNG2-G-325-115-21A I				115	1644	80	
	CNG2-G-325-120-20A I				120	1730	85	
	CNG2-G-325-135-20A I				135	1889	89	
	CNG2-G-356-60-20B I		4.7	356	60	799	48	
	CNG2-G-356-65-20B I				65	852	51	
	CNG2-G-356-70-20B I				70	905	54	

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)	
Q/ZCCD 101-2016	CNG2-G-356-75-20B I	30CrMo	4.7	356	75	958	57	20	
	CNG2-G-356-75-20B I					930			
	CNG2-G-356-77-20B I				77	980	58		
	CNG2-G-356-80-20B I				80	1012	60		
	CNG2-G-356-85-20B I				85	1065	63		
	CNG2-G-356-90-20B I				90	1117	66		
	CNG2-G-356-100-20B I				100	1225	72		
	CNG2-G-356-110-20B I				110	1331	78		
	CNG2-G-356-120-20B I				120	1438	84		
	CNG2-G-356-140-20B I				140	1652	96		
	CNG2-G-356-150-20B I				150	1759	102		
	CNG2-G-356-100-20A I				100	1250	72		
	CNG2-G-356-110-20A I				110	1355	78		
	CNG2-G-356-115-20A I				115	1410	81		
	CNG2-G-356-120-20A I				120	1463	85		
	CNG2-G-356-125-20A I				125	1515	88		
	CNG2-G-356-130-20A I				130	1570	91		
	CNG2-G-356-135-20A I				135	1622	94		
	CNG2-G-356-140-20A I				140	1730	100		
	CNG2-G-356-145-20A I				145	1730	100		
	CNG2-G-356-150-20A I				150	1835	106		
	CNG2-G-406-80-20B I		30CrMo	5.3	406	80	834		65
	CNG2-G-406-82-20B I					82	850		67
	CNG2-G-406-85-20B I					85	875		69
	CNG2-G-406-90-20B I					90	916		72
	CNG2-G-406-95-20B I					95	956		74
	CNG2-G-406-100-20B I					100	990		77
	CNG2-G-406-110-20B I					110	1079		83
	CNG2-G-406-120-20B I					120	1325		102
	CNG2-G-406-120-20B I						1161		89
	CNG2-G-406-150-20B I					150	1407		108
	CNG2-G-406-180-20B I					180	1653		126
	CNG2-G-406-190-20B I					190	1735		132
	CNG2-G-406-123-20A I					123	1243		93
	CNG2-G-406-141-20A I					141	1390		104
	CNG2-G-406-145-20A I					145	1423		107
	CNG2-G-406-150-20A I					150	1465		110
	CNG2-G-406-155-20A I					155	1505		113
	CNG2-G-406-160-20A I					160	1545		116
	CNG2-G-406-165-20A I					165	1587		120
	CNG2-G-406-170-20A I					170	1628		122
	CNG2-G-406-175-20A I					175	1670		125
CNG2-G-406-180-20A I	180	1710	128						
CNG2-G-406-185-20A I	185	1750	130						

**GLOBAL SPECIAL GAS SERVICE CO., LTD.**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
Q/ZCCD 101-2016	CNG2-G-406-190-20A I	30CrMo	5.3	406	190	1792	134	20
	CNG2-G-406-195-20A I				195	1833	137	
	CNG2-G-406-200-20A I				200	1840	142	
	CNG2-G-406-205-20A I				205	1880	145	
	CNG2-G-406-210-20A I				210	1957	147	
	CNG2-G-406-212-20A I				212	1978	148	
	CNG2-G-406-215-20A I				215	2000	150	
	CNG2-G-406-220-20A I				220	2040	152	
	CNG2-G-406-225-20A I				225	2080	155	
	CNG2-G-406-230-20A I				230	2120	158	

**Steel Liner Hoop Wrapped Glass-fiber Composite Cylinders for the On-board of Compressed Natural Gas for Automotive Vehicles (ISO 11439)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ISO 11439	CNP2-G-338-90-20B	30CrMo	4.3	325	90	1310	67	20
	CNP2-G-338-120-20A				120	1730	87	
	CNP2-G-338-135-20A				135	1900	97	
	CNP2-G-372-140-20A		4.7	356	140	1710	102	
	CNP2-G-372-150-20A				150	1815	108	
	CNP2-G-425-80-20B		5.3	406	80	850	67	
	CNP2-G-425-90-20B				90	930	74	
	CNP2-G-425-110-20B				110	1095	86	
	CNP2-G-425-120-20B				120	1180	92	
	CNP2-G-425-212-20A				212	1935	152	

**Steel Liner Hoop Wrapped Glass-fiber Composite Cylinders for the On-board of Compressed Natural Gas for Automotive Vehicles (ECE R110)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ECE R110	CNP2-G-338-120-20A	30CrMo	4.3	325	120	1730	87	20
	CNP2-G-372-150-20A		4.7	356	150	1815	108	
	CNP2-G-425-100-20B		5.3	406	100	990	79	

**Composite Cylinders for Gas Transport (ISO 11119)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ISO 11119	CNP2-G-336-150-20A	30CrMo	4.3	325	150	2150	104	20
	CNP2-G-332-150-20A	34CrMo4	5.0				112	25

Aluminum Liner Fully Wrapped Carbon-fiber Composite Cylinders for the On-board Storage of CNG as a Fuel for Automotive Vehicles

**Aluminum Liner Fully Wrapped Carbon-fiber Composite Cylinders for the On-board Storage of CNG as a Fuel for Automotive Vehicles (Q/ZCCD 105-2016)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
Q/ZCCD 105-2016	CNG3-C-350-60-20T	6061	4.6	350	60	855	25	20
	CNG3-C-350-65-20T				65	910	26.5	
	CNG3-C-350-70-20T				70	965	28	
	CNG3-C-350-75-20T				75	1020	29.5	
	CNG3-C-350-80-20T				80	1075	31	
	CNG3-C-350-85-20T				85	1130	32.5	
	CNG3-C-350-90-20T				90	1185	34	
	CNG3-C-350-95-20T				95	1240	35.5	
	CNG3-C-350-100-20T				100	1295	37	
	CNG3-C-350-105-20T				105	1350	38.5	
	CNG3-C-350-110-20T				110	1405	40	
	CNG3-C-350-115-20T				115	1460	41.5	
	CNG3-C-350-120-20T				120	1515	43	

**Aluminum Liner Fully Wrapped Carbon-fiber Composite Cylinders for the On-board Storage of CNG as a Fuel for Automotive Vehicles (ISO 11439)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ISO 11439	CNG3-C-332-100-20BP	6061	4.6	320	100	1480	35.5	20
	CNG3-C-365-120-20BP			350	120	1515	43	

**Aluminum Liner Fully Wrapped Carbon-fiber Composite Cylinders for the On-board Storage of CNG as a Fuel for Automotive Vehicles (ECE R110)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ECE R110	CNG3-C-365-120-20BP	6061	4.6	350	120	1515	43	20

Deep Drawing & Ironing Steel Cylinders

**Deep Drawing & Ironing Steel Cylinders (ECE R110)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ECE R110	CNG1-356-75-20TPA	34CrMo4	7.0	356	75	992	69	20
	CNG1-356-75-20TPB							
	CNG1-356-75-20TPD							
	CNG1-356-150-20TP		6.8	150	1785	118		
	CNG1-406-100-20TPA		8.0	406	100	1025	92	
	CNG1-406-100-20TPB							
	CNG1-406-100-20TPC							
	CNG1-406-100-20TPD							
	CNG1-406-140-20TPA							
	CNG1-406-140-20TPB		140	1360	122			
	CNG1-406-140-20TPC							

**Deep Drawing & Ironing Steel Cylinders (ISO 11439)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ISO 11439	CNG1-325-60-20TP	34CrMo4	6.3	325	60	940	56.5	20
	CNG1-356-75-20TPA		7	356	75	992	69	
	CNG1-356-75-20TPB							
	CNG1-356-75-20TPD							
	CNG1-356-150-20TP		6.8	150	1785	118		
	CNG1-406-100-20TPA		8	406	100	1025	92	
	CNG1-406-100-20TPB							
	CNG1-406-100-20TPC							
	CNG1-406-100-20TPD							
	CNG1-406-140-20TPA							
	CNG1-406-140-20TPB		140	1360	122			
CNG1-406-140-20TPC								

Deep Drawing & Ironing Composite Cylinders

**Deep Drawing & Ironing Composite Cylinders (Q/ZCCD102-2014)**

Q/ZCCD102-2014	CNG2-G-325-55-20B II	30CrMo	4.3	325	55	839	39.4	20
	CNG2-G-325-60-20B II				60	903	42.3	
	CNG2-G-325-65-20B II				65	967	45.2	
	CNG2-G-325-70-20B II				70	1031	48.1	
	CNG2-G-325-75-20B II				75	1095	51	
	CNG2-G-325-80-20B II				80	1159	53.9	
	CNG2-G-325-85-20B II				85	1214	55.5	
	CNG2-G-325-90-20B II				90	1278	58.6	
	CNG2-G-325-95-20B II				95	1342	61.6	

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
Q/ZCCD102-2014	CNG2-G-325-100-20B II	30CrMo	4.3	325	100	1406	64.7	20
	CNG2-G-325-105-20B II				105	1470	67.7	
	CNG2-G-325-110-20B II				110	1534	70.6	
	CNG2-G-325-115-20B II				115	1598	73.6	
	CNG2-G-325-120-20B II				120	1662	76.6	
	CNG2-G-356-60-20B II				60	790	44.3	
	CNG2-G-356-65-20B II		65	843	47.2			
	CNG2-G-356-70-20B II		70	896	50.1			
	CNG2-G-356-75-20B II		75	950	53			
	CNG2-G-356-80-20B II		80	1003	55.9			
	CNG2-G-356-85-20B II		85	1056	58.8			
	CNG2-G-356-90-20B II		90	1109	61.7			
	CNG2-G-356-95-20B II		95	1162	64.6			
	CNG2-G-356-100-20B II		100	1216	67.5			
	CNG2-G-356-105-20B II		105	1269	70.4			
	CNG2-G-356-110-20B II		110	1322	73.3			
	CNG2-G-356-115-20B II		115	1375	76.2			
	CNG2-G-356-120-20B II		120	1428	79.1			
	CNG2-G-356-125-20B II		125	1482	82			
	CNG2-G-356-130-20B II		130	1535	84.9			
	CNG2-G-356-135-20B II		135	1588	87.8			
	CNG2-G-356-140-20B II		140	1642	90.7			
	CNG2-G-356-145-20B II		145	1695	93.6			
	CNG2-G-356-150-20B II		150	1748	96.5			
	CNG2-G-406-80-20B II		80	822	59.9			
	CNG2-G-406-82-20B II		82	838	61			
	CNG2-G-406-85-20B II		85	863	62.8			
	CNG2-G-406-90-20B II		90	904	65.7			
	CNG2-G-406-95-20B II		95	945	68.6			
	CNG2-G-406-100-20B II		100	986	71.5			

**Deep Drawing & Ironing Composite Cylinders (ECE R110)**

Standard	Type	Liner Material	Liner Wall Thickness (mm)	Liner Outside Diameter (mm)	Capacity (L)	Nominal Length (mm)	Nominal Weight (kg)	Working Pressure (Mpa)
ECE R110	CNG2-G-326-90-20BP	30CrMo	4.2	317	90	1360	64	20
	CNG2-G-326-112-20BP				112	1660	77	