CNG CYLINDERS FOR AUTOMOTIVE PROGRAM

LIGHT-DUTY VEHICLES

HEXAGON

		AH_180_HY_1	AH_210_HY_1c	AH_314_HY_1e	AH_380_SL_1c	CNG-T4-PAM-D210XL920	CNG-T4-PAM-D274XL880	CNG-T4-PAM-D360XL710	CNG-T4-PAM-D360XL900	CNG-T4-PAM-D410XL915
Approval ISO 11439				+	+	+	+	+	+	+
Approval ECE R110		+	+	+	+	+	+	+	+	+
Hydraulic capacity	l	16	24.5	46	90	25	40	50	66	87
Outer diameter *	mm	183	212	314	384	212	274	352	352	410
Length without valve **	mm	838	926	810	1035	964	880	700	890	915
Transport capacity CNG (15 °C)[1)]	m^3	4	6	11.5	22.6	6,3	10,0	12,6	16,6	21,8
Natural gas weight (D=0,75 kg/m^3)[1]	kg	3	4.5	8.6	17	4,7	7,5	9,4	12,4	16,4
Operating pressure (15°C)	MPa (bar)	20 (200)	20 (200)	20 (200)	21 (210)	20 (200)	20 (200)	20 (200)	20 (200)	20 (200)
Burst pressure, min.	MPa (bar)	47 (470)	47 (470)	47 (470)	49.4 (494)	50 (500)	50 (500)	50 (500)	48,6 (486)	50 (500)
Operating temperature min./max.	°C	-40/+65	-40/+65	-40/+65	-40/+65	-40/+65	-40/+65	-40/+65	-40/+65	-40/+65
Weight empty without valve	kg	6.7	8.7	14	28	8	11	15	19	25
Design		Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid
Neck mounting option		Yes	Yes	No	No	Yes	No	No	No	Yes

All values in l, m3, bar and kg are approximate figures. The net weight of the cylinder is subject to manufacturing tolerances.

Metric unit system

* At operating pressure and possibly including drop protection

** Length given from boss to boss at operating pressure. Other parts like cylinder valve, valve adapters and 2nd TPRD must be added, where applicable. For more details please see drawing.

1) Gas volume and weight represent theoretical values under ideal conditions. The filling process underlies the complex physical laws of fluid mechanics. The actual filling volume depends on several factors: chemical composition of natural gas, ambient temperature, filling speed and inlet temperature which in turn, depend on the equipment of the compressor station. Therefore an exact statement about the real filling volume cannot be given. Typically filling efficiencies of 75-95% are reached.

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