



NANJING OCEAN INDUSTRY CO., LTD
NANJING OCEAN GROUP CO., LIMITED

STEEL CYLINDER

-THE PROFESSIONAL SUPPLIER OF STEEL CYLINDERS



CATALOG 2025

HIGH PRESSURE(H.P) SEAMLESS STEEL CYLINDERS

We offer a wide range of seamless steel gas cylinders, ranging from 2L to 80L, customized to meet customers' requirements. Our cylinders can be manufactured according to the standards GB5099, ISO9809-1 & 3, DOT-3AA, and EN1964-1.

For our customers in Europe, our cylinders are marked with the ® (Pi) symbol, which is a standard requirement for high-pressure cylinders in Europe.



Cylinder Model	O.D (mm)	Water Capacity(L)	Height (mm)	Weight (kg)	Design Thickness (mm)	Material (Steel)	W.P (bar)	T.P (bar)
HG89-1.0-150	Φ89	1.0	240	1.8	Min 3.0	37Mn	150	250
HG89-1.2-150		1.2	270	2.0				
HG89-1.4-150		1.4	310	2.3				
HG89-2.0-150		2.0	425	2.9				
HG108-2.0-150	Φ108	2.0	318	3.5	Min 3.2			
HG108-3.4-150		3.4	490	4.7				
HG108-4.0-150		4.0	570	5.3				
HG121-3.4-150	Φ121	3.4	405	5.3	Min 3.2			
HG121-4.0-150		4.0	485	5.8				
HG121-5.0-150		5.0	580	6.8				
HG140-3.6-150	Φ140	3.6	350	5.2	Min 3.6			
HG140-4.0-150		4.0	365	6.5				
HG140-5.0-150		5.0	427	7.6				
HG140-6.7-150		6.7	535	9.4				
HG140-8.0-150		8.0	650	11.0				
HG140-10.0-150		10.0	810	12.3				
HG140-13.4-150		13.4	1085	17.0				
HG152-8.0-150	Φ152	8.0	590	10.8	Min 4.0			
HG152-10.0-150		10.0	710	12.6				
HG159-8.0-150	Φ159	8.0	540	10.5	Min 4.2			
HG159-10.0-150		10.0	650	12.8				
HG159-13.4-150		13.4	865	16.2				
HG159-15.0-150		15.0	945	18.1				
HG165-15.0-150	Φ165	15.0	890	19.3	Min 4.3			
HG165-20.0-150		20.0	1610	28.3				
HG219-20.0-150	Φ219	20.0	715	28.0	Min 5.7			
HG219-40.0-150		40.0	1315	47.5				
HG219-50.0-150		50.0	1610	57.5				
HG232-40.0-150-5.4	Φ232	40.0	1175	43.0	Min 5.4			
HG232-47.0-150-5.4		47.0	1360	50.2				
HG232-50.0-150-5.4		50.0	1435	51.8				
HG232-40.0-150-6.0		40.0	1180	47.4	Min 6.0			
HG232-47.0-150-6.0		47.0	1370	54.5				
HG232-50.0-150-6.0		50.0	1450	57.5				
HG267-68.0-150	Φ267	68.0	1505	73.0	Min 6.4			
HG267-70.0-150		70.0	1533	75.5				
HG267-80.0-150		80.0	1725	84.5				
HG232-50.0-200-5.8	Φ232	50.0	1450	57.8	Min 5.8	34CrMo4	200	300
HG232-50.0-200-5.2			1420	52.0	Min 5.2			

DISSOLVED ACETYLENE CYLINDERS (ISO3807& GB11638)

The dissolved acetylene gas cylinder refers to a pressure vessel designed to contain acetylene gas, which is widely used for cutting, welding, lighting, chemical analysis, military engineering, and other applications. It consists of a steel-welded gas cylinder with an outer shell and an integral porous calcium silicate filler inside. The calcium silicate porous filler adsorbs the acetone solvent and acetylene solution, using acetone solvent to release acetylene gas during use. This design offers excellent charging and discharging performance.

The Main Technical Indicators

Porosity of porous mass: 90-92%

Packing compressive strength: $\geq 1.8\text{Mpa}$

The fusible alloy operating temperature: $100\pm 5\text{ }^{\circ}\text{C}$

Packing Standard: GB11638-2020



Cylinder Model	O.D (mm)	Water Capacity(L)	Height (mm)	Net Weight (Kg)	Design Thickness(mm)	Material (Steel)	W.P (Bar)	Max fill Acetone Weight(kg)	Max fill Acetylene Weight(kg)
HG-AC-60	Φ310	60.0	1100	60.0	Min 5.0	HP295	15.6	20.5	10.2
HG-AC-40	Φ258	40.0	1045	37.0	Min 3.3	HP295	15.6	13.6	6.8
HG-AC-30	Φ243	30.0	790	27.0	Min 3.3	HP295	15.6	8.5	4.2
HG-AC-10	Φ159	10.0	780	13.5	Min 3.6	37Mn	150	3.3	1.7
HG-AC-8	Φ159	8.0	670	12.0	Min 3.6	37Mn	150	2.7	1.4
HG-AC-2	Φ108	2.0	445	4.00	Min 3.2	37Mn	150	0.6	0.3

WELDED STEEL CYLINDERS(GB5100)

WELDED STEEL CYLINDER IS USED FOR LIQUID CL₂ , SO₂ , NH₃, C₂H₄O, C₂H₄Cl₂, C₂H₆O, R21 , R11, R22, R12B1, R12, R115, R152a, R133a, R114, RC318, R218, R124, R142b, R134a, R227, R12B1, R32, R40, R125, R1113, R1216.



WATER CAPACITY(L)	40.0	100.0	120	400	800	926	1000
CYLINDER MODEL	HG-IGLII300 -40-3.0-T	HG-IGLII400 -100-3.0-T	HG-IGLII400 -120-3.0-T	HG-IGWII600 -400-3.0-T	HG-IGWII800 -800-3.0-T	HG-IGWII800 -926-3.0-T	HG-IGWII900 -1000-3.0-T
STANDARD	GB5100						
W.P(BAR)	30(NH3) / 20(CL2,SO2,C2H6O) / 10(C2H4O & C2H4CL2)						
T.P(BAR)	45(NH3) / 30(CL2, SO2,C2H6O) / 15(C2H4O & C2H4CL2)						
TEMPERATURE(C)	-40-60						
THICKNESS(MM)	6.0			8.0	10.0		
MATERIAL	HP345/ Q345R/ S30403/ S31603						
CYLINDER VALVE MODEL	QF-10(CL2 & SO2) / QF-11(NH3 & C2H4CL2) / QF-13(C2H6O), / QF-19(C2H4O)						
CYLINDER VALVE OUTLETTTHREAD	G1/2			G3/4			
O.D(MM)	300	400		600	800		900
HEIGHT(MM)	845	1065	1257	1780	2000	2255	2330
NET WEIGHT(KG)	40.1	72.0	81.0	258.0	445.0	512.0	530.0
MAX FILLING RATE	0.53(NH3) / 0.58(C2H4CL2 & C2H6O) / 1.25(CL2) / 1.23(SO2) / 0.79(C2H4O)						
MAX SERVICE LIFE	12 YEARS(CL2 & SO2 & NH3) / 20 YEARS(C2H4O & C2H4CL2 & C2H6O)						

WELDED STEEL CYLINDER FOR LIQUID C₃H₈(40L/74L/118L/118L)



WATER CAPACITY(L)	40.0	74	118	118
STANDARD	GB5100			
W.P(BAR)	22			
T.P(BAR)	33			
TEMPERATURE(°C)	-40-60			
DESIGN THICKNESS(MM)	2.1	2.5	3.3	3.3
THICKNESS(MM)	3	3	4	4
MATERIAL	HP345/ Q345R/ S30403/ S31603			
CYLINDER VALVE MODEL	BWF-1			
CYLINDER VALVE OUTLET THREAD	M22*1.5-LH			
O.D(MM)	250	300	400	400
HEIGHT(MM)	1026	1275	1182	1190
NET WEIGHT(KG)	22.0	30.0	52.0	54.0
MAX FILLING RATE	0.41	0.42	0.41	0.41
MAX FILLING(KG)	16.0	980.0	50.0	50.0
MAX SERVICE LIFE	20YEARS			

WELDED STEEL CYLINDER FOR HFC-227ea/FM200



CYLINDER MODEL	WATER CAPACITY(L)	O.D (MM)	HEIGHT (MM)	THICKNESS (MM)	DESIGN THICKNESS(MM)	W.P (BAR)	T.P (BAR)	MAX FILLING RATE	MAX FILLING(KG)
HG-IGII300-40-4.2T	40	300	770	6	4.1	4.2	6.3	1.12	44
HG-IGII350-70-4.2T	70	350	930	6	4.7	4.2	6.3	1.12	78
HG-IGII350-80-4.2T	80	350	1032	6	4.7	4.2	6.3	1.12	89
HG-IGII350-90-4.2T	90	350	1137	6	4.7	4.2	6.3	1.12	100
HG-IGII350-100-4.2T	100	350	1236	6	4.7	4.2	6.3	1.12	112
HG-IGII400-106-4.2T	106	400	1045	8	5.4	4.2	6.3	1.12	118
HG-IGII350-120-4.2T	120	350	1475	6	4.7	4.2	6.3	1.12	134
HG-IGII400-120-4.2T	120	400	1150	8	5.4	4.2	6.3	1.12	134
HG-IGII400-152-4.2T	152	400	1390	8	5.4	4.2	6.3	1.12	170
HG-IGII400-170-4.2T	170	400	1550	8	5.4	4.2	6.3	1.12	190
HG-IGII400-180-4.2T	180	400	1605	8	5.4	4.2	6.3	1.12	201
HG-IGII350-70-5.6T	70	350	930	8	6.6	5.6	8.4	0.95	66
HG-IGII350-80-5.6T	80	350	1025	8	6.6	5.6	8.4	0.95	76
HG-IGII350-90-5.6T	90	350	1130	8	6.3	5.6	8.4	0.95	85
HG-IGII350-100-5.6T	100	350	1236	8	6.6	5.6	8.4	0.95	95
HG-IGII400-106-5.6T	106	400	1072	10	7.2	5.6	8.4	0.95	100
HG-IGII350-120-5.6T	120	350	1450	8	6.3	5.6	8.4	0.95	114
HG-IGII400-120-5.6T	120	400	1187	10	7.2	5.6	8.4	0.95	114
HG-IGII400-152-5.6T	152	400	1427	10	7.2	5.6	8.4	0.95	144
HG-IGII400-170-5.6T	170	400	1587	10	7.2	5.6	8.4	0.95	161
HG-IGII400-180-5.6T	180	400	1672	10	7.2	5.6	8.4	0.95	171

VALVES & PARTS

MODEL	WORK PRESSURE	INTERLET THREAD	OUTLET THREAD	MEDIUM GAS
QF-2	150 BAR	PZ27.8	G5/8-14-RH-EXT	O2 N2 AIR
QF-2A	150 BAR	PZ27.8	G5/8-14-RH-EXT	CO2
QF-2A8	150 BAR	PZ27.8	W21.8-14-RH-EXT	CO2
QF-2A3	150 BAR	PZ27.8	CGA326(0.825-14NGO-RH-EXT)	N2O
QF-2C	150 BAR	PZ27.8	G5/8-14-RH-EXT	O2 N2 AIR
QF-2C7	150 BAR	PZ27.8	W21.8-14-RH-EXT	O2 N2 AIR
QF-2D	150 BAR	PZ27.8	G5/8-14-RH-INT	O2 N2 AIR
QF-2G	150 BAR	PZ27.8	G5/8-14-RH-INT	O2 N2 AIR
QF-2P	150 BAR	PZ27.8	W21.8-14-RH-EXT	O2 N2 AIR
QF-5	200 BAR	PZ27.8	G5/8-14-RH-EXT	O2 N2 AIR
QF-6A	150 BAR	PZ27.8	G5/8-14-RH-INT	O2 N2 AIR
QF-7B	150 BAR	PZ27.8	G5/8-14-RH-INT	O2 N2 AIR
QF-7D2	150 BAR	PZ27.8	TOP SIDE G5/8-14-RH-INT	O2 N2 AIR
QF-10	--	PZ27.8	G3/4-14-LH-INT	CL2
QF-21A	150 BAR	PZ19.2	W21.8-1/14-RH-EXT	O2 N2 AIR
QF-35	150 BAR	1-1/8-12UNF	CGA320	CO2
QF-35C	150 BAR	1-1/8-12UNF	G1/2	CO2
QF-40A	150 BAR / 200 BAR	PZ27.8	G5/8-14-RH-EXT	O2 N2 AIR
QF-40B	150 BAR / 200 BAR	PZ27.8	G5/8-14-RH-INT	O2 N2 AIR
QF-42B	200 BAR	PZ27.8	G5/8-14-RH-INT	O2 N2 AIR
QF-T1	200 BAR	PZ27.8	2-NPT 1/4	CNG
QF-T1Z	200 BAR	PZ27.8	NPT 1/4	CNG
QF-T1H	200 BAR	G1/2	NPT 1/4	CNG
PX-32A	150 BAR	PZ27.8	G5/8-14-RH-EXT	AR
CGA320	150 BAR / 200 BAR	3/4-14NGT	CGA320	CO2
CAG326	150 BAR / 200 BAR	3/4-14NGT	CGA326	N2O
CGA350	150 BAR / 200 BAR	3/4-14NGT	CGA350-LH	H2
CGA540	150 BAR / 200 BAR	3/4-14NGT	CGA540	O2 N2 AIR
CGA580	150 BAR / 200 BAR	3/8-18NGT	CGA580	HE AR
CGA590	150 BAR / 200 BAR	3/4-14NGT	CGA590-LH	C3H2F6O
CGA870	150 BAR / 200 BAR	PZ19.2	CGA870	O2
CGA910	150 BAR / 200 BAR	3/4-14NGT	CGA910	N2O
CGA940	150 BAR / 200 BAR	3/4-14NGT	CGA940	CO2
QJT200-8	150 BAR / 200 BAR	M33*2-INT	M33*2-INT	O2 H2 N2 AIR
QJT200-10	150 BAR / 200 BAR	M33*2-INT	M33*2-INT	O2 H2 N2 AIR
QF-15A	--	PZ39	- 3/21 CLIP	C2H2
QF-15A3	--	PZ39	CGA300(0.825-14NGO-RH-EXT)	C2H2
CGA200	--	3/8-18NGT	CGA200	C2H2
CGA300	--	3/4-14NGT	CGA300	C2H2
CGA510	--	3/4-14NGT	CGA510	C2H2
PF5-1	--	PZ39	G5/8-14-LH-INT	C2H2
PF5-5	--	PZ27.8	G5/8-14-LH-INT	C2H2
PF5-5A	--	BS341-1'	G5/8-14-LH-INT	C2H2

JUST TRUST **US** DO THE BEST
LET

NANJING OCEAN INDUSTRY CO., LTD
NANJING OCEAN GROUP CO., LIMITED

Address: No. 2-10 Qiancheng Big Road, Zhongshan Technology Park, Jiangbei New Area, Nanjing, China.

WhatsApp & Wechat: +86 13951071581

Tel: +86 25 58884862 / 58736786

Email: info@hg-ig.com andychen_cylinder@vip.163.com

Website: www.HG-IG.com