REFERENCE LIST OF NEW GASHOLDERS & MAJOR REFURBISHMENTS IN THE STEEL INDUSTRY

PROJECT	TYPE	CAPACITY (M^3)	TYPE OF GAS	PRESSURE (MM W.G.)	YEAR
Usiminas, Brazil	Wiggins	158,000	BF Gas	370	2020
Baoshan Iron and Steel Co. Ltd., China	Wiggins	150,000	BF Gas	800	2020
Jindal Power & Steel Ltd, India	Wiggins	80,000	Gas Misto	200	2019
TATA Steel Ltd, India	Wiggins	60,000	LD Gas	255	2019
China Steel, Taiwan	Wiggins	60,000	LD Gas	350	2019
ArcelorMittal, Poland	Wiggins	15,000	CO Gas	510	2017
British Steel Ltd, UK	Wiggins	112,500	CO Gas	350	2017
Baoshan Iron and Steel Co. Ltd., China	Wiggins	150,000	BF Gas	800	2016
Bhushan Power & Steel Ltd, India	Wiggins	35,000	CO Gas	950	2017
Dragon Steel Corporation, Taiwan	Wiggins	30,000	CO Gas	1050	2014
TATA Steel Ltd, India	Wiggins	150,000	BF Gas	850	2016
TATA Steel Ltd, India	Wiggins	80,000	LD Gas	255	2016
TATA Steel Ltd, UK	Wiggins	112,500	CO Gas	350	2014
SVAI, NMDC, India	Wiggins	60,000	LD Gas	200	2019
Bhushan Steel Ltd	Wiggins	100,000	LD Gas	200	2019
TATA Steel Ltd, India	Wiggins	150,000	BF Gas	575	2015
TATA Steel Ltd, India	Wiggins	100,000	LD Gas	265	2014
SAIL, Bhilai, India	Wiggins	80,000	LD Gas	200	2014
SAIL, Bokaro, India	Wiggins	80,000	LD Gas	200	2014
Alchevsk Iron & Steel Works, Ukraine	Wiggins	80,000	LD Gas	250	2013
Alchevsk Iron & Steel Works, Ukraine	Wiggins	100,000	BF Gas	1300	2012
Alchevsk Iron & Steel Works, Ukraine	Wiggins	50,000	CO Gas	300	2013
Bhushan Steel & Strips Ltd, India	Wiggins	100,000	BF Gas	1200	2012
Bhushan Steel & Strips Ltd, India	Wiggins	50,000	CO Gas	700	2013
SAIL, Visag, India	Wiggins	80,000	LD Gas	170	2011
SAIL, Rourkela, India	MAN	100,000	CO Gas	300	2010
Dragon Steel, Taiwan	Wiggins	30,000	CO Gas	1100	2009
SAIL, Rourkela, India	Wiggins*	37,000	CO Gas	300	2009
JSW Ltd, India	Wiggins	50,000	BF Gas	1000	2009
JSW Ltd, India	Wiggins	50,000	BF Gas	850	2008
Isdemir, Turkey	Wiggins	60,000	LD Gas	160	2008
Bhushan, India	Wiggins	50,000	BF Gas	700	2008
Isdemir, Turkey	Wiggins	50,000	BF Gas	800	2006
TISCO, Jamshedpur, India	Wiggins	80,000	LD Gas	265	2005

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PROJECT	TYPE	CAPACITY (M^3)	TYPE OF GAS	PRESSURE (MM W.G.)	YEAR
Cosipa, Brazil	MAN (reconstr)	10,000	CO Gas	500	2004
CST, Brazil	Wiggins	80,000	LD Gas	170	2004
Arcelor, Dunkirk, France	Spiral W/S	60,000	CO Gas	550/700	2004
Piombino, Italy	Wiggins‡	43,275	BF Gas	500	2002
Cosipa, Brazil	MAN (reconstr)	125,000	BF Gas	500	2002
POSCO, Korea	MAN	100,000	BF Gas	700	2002
Corus, Llanwern	Wiggins	30,000	CO Gas	500	2000
CSN, Brazil	Wiggins	55,000	LD Gas	350	2000
CSN, Brazil	Wiggins*	90,000	BF/CO Gas	440	2000
Bethlehem Steel, USA	Wiggins	2,832	CO Gas	500	1999
SEC for Gunawan, Malaysia	Wiggins	28,500	BF Gas	400	1998
Ilva, Taranto, Italy	Wiggins*	66,000	Gas Misto	450	1997
Jindal Strips, India	Wiggins	100,000	Corex Gas	1000	1997
Lulea, Sweden	Wiggins*	80,000	Gas Misto	1100	1995
Wankie, Zimbabwe	Spiral W/S	120,000	CO Gas	300/450/600	1994
Wankie, Zimbabwe	Spiral W/S	8,000	CO Gas	300	1994
Wuhan, China	Wiggins	50,000	LD Gas	250	1993
SAIL, Rourkela, India	Wiggins	50,000	LD Gas	200	1992
Eregli, Turkey	Wiggins	40,000	BF Gas	700	1992
Eregli Turkey	Wiggins	40,000	LD Gas	200	1992
SAIL, Durgapur, India	MAN	100,000	BF Gas	400	1992
ACZC, Holland	Spiral W/S	7,500	CO Gas	500	1991
Hoesch, Dortmund, Germany	Wiggins	50,000	LD Gas	200	1990
British Steel, Scunthorpe, UK	Wiggins	90,000	BF Gas	1000	1989
British Steel, Llanwern,UK	Wiggins*	45,000	LD Gas	145	1988
SAIL, Visag, India	Wiggins	83,400	LD Gas	350	1988
ISCOR, Newcastle, South Africa	Spiral W/S	80,000	BF Gas	1100	1986
British Steel, Ravenscraig, UK	Wiggins*	92,100	BF Gas	350	1986
Hoogovens, Ijmuiden, Holland	Wiggins	83,400	LD Gas	160	1985
Italsider, Taranto, Italy	Wiggins	70,000	LD Gas	250	1985
British Steel, Llanwern, UK	Wiggins*	42,500	CO Gas	450	1985
Ensidesa, Oviedo, Spain	Wiggins	70,000	LD Gas	200	1985
SMN, Mondeville, France	Spiral W/S	35,000	CO Gas	450	1984
British Steel, Ravenscraig, UK	Wiggins*	21,250	CO Gas	450	1984

REFERENCE LIST OF NEW GASHOLDERS & MAJOR REFURBISHMENTS IN THE STEEL INDUSTRY

PROJECT	TYPE	CAPACITY (M^3)	TYPE OF GAS	PRESSURE (MM W.G.)	YEAR
TISCO, Jamshedpur, India	Wiggins	50,000	LD Gas	160	1984
British Steel, Scunthorpe, UK	Wiggins	80,000	LD Gas	250	1984
Karabuk, Turkey	MAN +	14,150	CO Gas	350	1984
Karabuk, Turkey	MAN +	28,300	BF Gas	350	1983
BHP, Whyalla, Australia	MAN	30,000	BF Gas	610	1981

Observations

Wiggins‡ Conversion from other dry seal gasholder
Wiggins* Conversion of Klonne type gasholder