

VALV TECHNOLOGIES

Major Project Experience - Mining & Minerals Processing

Date	Project - Owner	Location	Application	Content of Valves	Qty	Engineers
1990 - 2006	Los Condes Mine - CMD	Chile	Copper Ore	½" -24" ASME 150-1500	135	JRI - Chile
1993 - 2006	Andina Mine - Codelco	Chile	Copper Concentrate	1" - 20" ASME 150-1500	373	SNC Lavalin - Chile
1998 - 2004	Minosal - Phelps Dodge	Chile	Copper Concentrate	4" -10" ASME 600	10	Minmetal - Chile
1996 -2007	Alumbrera - Rio Algom	Argentina	Copper Concentrate	½" - 8" ASME 150-1500	420	Fluor/PSI-JRI - Chile
1995 - 2004	Iscaycruz - Glencore	Peru	Zinc/Lead Concentrate	½" - 4" ASME 150-2500	43	JRI - Chile
1999	Yauliyacu - Glencore	Peru	Zinc/Lead Concentrate	2" -6" ASME 1500	4	Leandre Gervais- Canada
1996 - 2003	Kennecott - Rio Tinto	USA	Copper Tailings	1 ½" - 14" ASME 150-600	290	PSI - USA
1997 - 2004	Kidd Creek - Falconbridge	Canada	Nickel Ore - HPAL	1" - 4" ASME 900	12	Bharti - Canada
1998	Carbon Plant - Karbomont	Canada	Carbon Slurry	1" - 4" ASME 150-600	24	Kvaerner - Canada
1997 - 2004	Batu Hijau - Newmont	Indonesia	Copper Concentrate	2" - 6" ASME 150-1500	112	Fluor - USA
1998 - 2001	Goro Nickel - Inco	New Caledonia	Nickel Ore - HPAL	¾" - 2" ASME 900-1500	90	SNC Lavalin - Canada
1994 - 2008	Taiyuan Iron & Steel	China	Iron Concentrate	1" - 8" ASME 150-900	49	PSI - USA
1991	Wengfu - Guizhou Hongfu	China	Phosphate Ore	1" - 8" ASME 150-1500	53	PSI - USA
1997 - 2004	Cadia - Newcrest	Australia	Copper Concentrate	2" - 4" ASME 900	16	Bechtel - Australia
1998 - 1999	Mount Gordon Copper	Australia	Copper Concentrate	½" - 6" ASME 150	29	Bateman - Australia
1994 - 2004	Bayswater - Macquarie	Australia	Liquified Flyash	4" - 8" ASME 900	18	Stone Eng - Australia
1996 - 1999	OK Tedi - BHP	PNG	Copper Tailings	2" - 6" ASME 900	14	BHP - Papua New Guinea
1997	Bulong - Preston	Australia	Nickel Ore - HPAL	2" - 3" ASME 600	8	BKK - Australia
1999	Murrin Murrin - Anaconda	Australia	Nickel Ore - HPAL	2" - 3" ASME 600	15	Fluor - Australia
1999 - 2004	Millennium - Suncor	Canada	Oil Sands	2" - 24" ASME 150	300	SNC Lavalin - Canada
2000	Minera Los Pelambres	Chile	Copper Concentrate	1" - 4" ASME 150 - 1500	37	Los Pelambres - Chile
2000 - 2003	Antamina - Rio Algom	Peru	Copper Concentrate	2" - 10" ASME 150 - 1500	188	Bechtel - USA
2000 - 2002	American Soda	USA	Sodium Bicarbonate	4" - 12" ASME 300 - 1500	270	Kvaerner - USA
2001	Barrick Eskay Creek	Canada	Gold Tailings	1" - 3" ASME Class 1500	14	AMEC - Canada
2002 - 2003	Phelps Dodge - Bagdad	USA	Copper Concentrate	½" - 6" ASME 150 - 600	195	Kvaerner - USA
2003 - 2007	Rio Tuba Nickel - Coral Bay	Philippines	Nickel Ore - HPAL	3" - ASME 600	9	JGC - Japan
2003	Goro Nickel - Inco	New Caledonia	Nickel Ore - HPAL	1" - 3" ASME 300-900	75	Wirth Pumps - Germany
2003 - 2007	Minera Collahuasi	Chile	Copper Slurry	1" - 8" ASME 150-2500	200	Brass - Chile
2003 - 2007	Hy-Grade Iron Pellets Ltd	India	Iron Concentrate	3" - 16" ASME 150 - 1500	120	PSI - USA
2004	Australian Tailings Corp	Australia	Copper Tailings	2" - 18" ASME 600	15	Flotech - Australia
2005	Minera Los Pelambres	Chile	Copper Tailings	2" - 36" ASME 150 - 900	70	Golder-PSI - Chile
2005	Voiseys Bay Nickel - Inco	Canada	Nickel Tailings	2" - 8" ASME 600	14	SNC Lavalin - Canada
2005	CNRL Horizon	Canada	Oil Sands	2" - 8" ASME 150	644	SNC Lavalin - Canada
2005	Samarco Mineração	Brazil	Iron Concentrate	2" - 20" ASME 600	12	Minerconsult/PSI - Brazil
2005 -2007	Minera Los Quenuales	Peru	Copper Tailings	1 ½" - 4" ASME 600 - 2500	30	Los Quenuales - Peru
2005	Paragominas - CVRD	Brazil	Bauxite Concentrate	1 ½" - 24" ASME 150-900	86	PSI - Brazil
2005 -2007	Goro Nickel - Inco	New Caledonia	Nickel Ore - HPAL	¾" - 4" ASME 600	75	Foster Wheeler - Australia
2005	Da Hong Shan - Kunming Iron	China	Iron Concentrate	1 ½" - 10" ASME 150-1500	67	PSI - USA
2005	Teck Coal	Canada	Coal Tailings	8" Class 900	5	AMEC - Canada
2006	OneSteel Whyalla	Australia	Iron Concentrate	1" - 8" Class 900	23	One Steel
2006	Paragominas - CVRD	Brazil	Bauxite Concentrate	2" - 24" ASME 300 - 900	30	Minerconsult-PSI - Brazil
2006	Samarco Iron	Brazil	Iron Concentrate	16" ASME 600, 900 & 1500	30	PSI - Brazil
2006	Samarco Iron	Brazil	Iron Concentrate	2" -10" ASME 600, 900 & 1500	198	PSI - Brazil
2006	Samarco Iron	Brazil	Iron Concentrate	12" & 20" ASME 300, 600 & 900	11	Samarco Eng - Brazil
2006	Minera Atacocha	Peru	Copper Tailings	2" - 8" ASME 150 & 900	80	PSI-JRI - Peru
2007 - 2008	MBR	Brazil	Iron Concentrate	2" - 12" ASME 600	36	PSI - Brazil
2007	Agnico-Eagle	Canada	Gold Tailings	10" ASME Class 300	2	PSI - Canada
2007	Samarco Iron	Brazil	Iron Concentrate	8" & 4" ASME 900	24	Samarco Eng - Brazil
2007	Samarco Iron	Brazil	Iron Concentrate	2"-16" ASME 600 & 1500	56	PSI - Brazil
2007	Ambatovy Nickel Project	Madagascar	Nickel Ore	1" - 20" ASME 150, 600 & 900	70	SNC-Lavalin/PSI - USA
2007	Ambatovy Nickel Project	Madagascar	Nickel Ore - HPAL	1" - 4" ASME 600	30	SNC-Lavalin
2008	MMX Iron Project	Brazil	Iron Concentrate	1 ½" - 24" ASME 150, 900 & 1500	350	PSI - Brazil
2008	Ramu Nickel Project	PNG	Nickel Ore - HPAL	1" - 4" ASME 600	24	ENFI - China
2008	Ramu Nickel Project	PNG	Nickel Ore	26" ASME 600	2	ENFI/Brass - China
2008	Los Pelambres	Chile	Copper Tailings	24" ASME 600 & 900	6	Bechtel/PSI - Chile
2008	Anglo Chile - Los Bronces	Chile	Copper Ore	8" - 30" ASME 900	55	PSI - Chile
2008	BRPL	India	Iron Concentrate	1 ½" - 14" ASME 150 & 1500	60	PSI - USA
2009	BaoTou Steel	China	Iron Concentrate	2" - 14" ASME 150 & 1500	100	PSI - China
2009	Minera Collahuasi	Chile	Copper Concentrate	1" - 8" ASME 1500 & 2500	85	Brass - Chile
2009	CP Mining	West Australia	Iron Conc & Tailings	2" - 40" ASME 150 - 600	185	PSI - China
2009	Votorantim Minerals	Brazil	Iron Tailings	2" - 10" ASME 300	16	PSI - Brazil
2010	Vale SA - Paragominas	Brazil	Bauxite Concentrate	1" - 24" ASME 150 - 900	114	Brass - Chile
2010	Anglo Chile - Los Bronces	Chile	Copper Ore	2" - 8" ASME 900	125	Bechtel - Chile
2010	Taganito Nickel	Philippines	Nickel Ore - HPAL	4" ASME 600	6	JGC - Japan
2011	Panzihua Project	China	Iron Concentrate	1" - 10" ASME 150-1500	85	PSI - China
2011	Minera Chinalco - Toromocho	Peru	Copper/Moly Tailings	1"-34" ASME 150-900	102	Aker Solutions/BRASS - USA
2011	Minera Escondida	Chile	Copper Concentrate	2"-10" ASME 1500	56	SKM/Brass - Chile
2011	Samarco Iron	Brazil	Iron Concentrate	2"-22" ASME 150 - 1500	372	AusencoPSI - Brazil
2012	Barrick Porgera	PNG	Paste Backfill	2" Class 900	4	CGIS - Canada
2012	CNRL Horizon	Canada	Oil Sands	2" - 8" ASME 150	644	SNC Lavalin - Canada
2012	Mineração Usiminas	Brazil	Iron Concentrate	3"-16" ASME 150-600	33	AusencoPSI - Brazil
2012	OCP Jorf Lasfar Pipeline	Morocco	Phosphate Ore	1/2" - 36" ASME 150-600	303	AusencoPSI - USA
2013	Minera Escondida	Chile	Copper Concentrate	3" - 8" ASME 150-1500	15	Bechtel - Chile

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Date	Project - Owner	Location	Application	Content of Valves	Qty	Engineers
2014	Vale SA	Brazil	Iron Tailings	6" - 24" ASME 150	5	Ausenco - Brazil
2016	Anglo American Sur S.A. - Los Bronces	Chile	Copper Ore	4" - 12" ASME 600	10	JRI - Chile
2017	Vale SA - Maravihas III	Brazil	Iron Tailings	6" - 28" ASME 300-600	9	Ausenco - Brazil
2019	Anlgo American Minerio de Ferro	Brazil	Iron Concentrate	2" - 14" ASME 150 & 1500	20	Ausenco - Brazil
2019	OBI Nickel Plant	Indonesia	Nickel Ore - HPAL	4" ASME 600	10	ENFI - China
2019	Quebrada Blanca II	Chile	Copper Concentrate	1" - 8" ASME 150 & 1500	303	Bechtel - Chile
2019	Cadia - Newcrest	Australia	Copper Concentrate	2" - 6" ASME 1500	17	Newcrest - Australia
2020	QMB New Energy Materials, LTD	Indonesia	Nickel Ore - HPAL	1" - 4" ASME 600	27	Morimatsu - China
2020	Pt. Huayue Nickel Cobalt	Indonesia	Nickel Ore - HPAL	1" 600	28	Pt. Huayue - Indonesia
2020	NMDC Bachel to Nagarnar STP - SPO2	India	Iron Concentrate	2" - 24" ASME 150-1500	63	L&T/Ausenco - India
2020	FMG - Iron Bridge Project	Australia	Iron Concentrate	2" - 26" 600-900	73	Ausenco - USA
2021	OBI Nickel Plant - Phase II	Indonesia	Nickel Ore - HPAL	4" ASME 600	6	ENFI - China
2021	Pt. Huafei Nickel Cobalt	Indonesia	Nickel Ore - HPAL	3/4" - 4" ASME 600	53	Pt. Huafei - Indonesia
2022	Pt. Huashan Nickel Cobalt	Indonesia	Nickel Ore - HPAL	3/4" - 4" ASME 600	53	Pt. Huashan - Indonesia
2022	OBI Nickel Plant - Phase III	Indonesia	Nickel Ore - HPAL	4" ASME 600	18	ENFI - China
2022	Pt. Excellen Silo Leaching	Indonesia	Nickel Ore - Autoclave	2" - 12" ASME 300-600	25	Pt. Excellen - Indonesia
2022	Shengtun Energy & Mettallochemistry	China	Smelting - Autoclave	2" - 4" ASME 300	22	Shengtun Energy - China
2023	Pt. Sulawesi Nickel Cobalt	Indonesia	Nickel Ore - HPAL	1" - 4" ASME 600	56	Pt. Sulawesi - Indonesia
2023	Pt. QMB New Energy Materials	Indonesia	Nickel Ore - HPAL & Autoclave	1" - 18" ASME 600	53	Pt. QMB - Indonesia
2023	Pt. Gem Indonesia	Indonesia	Nickel Ore - HPAL & Autoclave	1" - 18" ASME 600	22	Pt. Gem - Indonesia
2023	Pt. Gem Indonesia	Indonesia	Nickel Ore - HPAL & Autoclave	1" - 18" ASME 600	22	Pt. Gem - Indonesia
2023	Jindal Steel	India	Iron Concentrate	2" - 24" ASME 900-1500	97	Ausenco - USA
2023	Pt. Blue Sparking Energy	Indonesia	Nickel Ore - HPAL	3/4" - 4" ASME 600	29	Pt. Blue Sparking - Indonesia
2023	Pt. Rarlon Energi Investasi	Indonesia	Nickel Ore - HPAL	3/4" - 4" ASME 600	24	Pt. Rarlon - Indonesia
2023	Pt. Blue Sparking Energy	Indonesia	Nickel Ore - Autoclave	3/4" - 18" ASME 300-600	106	Pt. Blue Sparking - Indonesia
2023	Pt. Fajar Metal Industry	Indonesia	Nickel Ore - HPAL	3/4" - 4" ASME 600	29	Pt. Fajar - Indonesia
2024	Pt. Fajar Metal Industry	Indonesia	Nickel Ore - Autoclave	3/4" - 18" ASME 300-600	106	Pt. Fajar - Indonesia
2025	Pt. Green Eco Nickel	Indonesia	Nickel Ore - HPAL & Autoclave	1" - 18" ASME 600	26	Pt. Green Eco Nickel - Indonesia
2025	Pt. Teluk Metal Industry	Indonesia	Nickel Ore - HPAL & Autoclave	3/4" - 18" ASME 300-600	90	Pt. Teluk Metal Industry - Indonesia
Total Project Valves					8875	