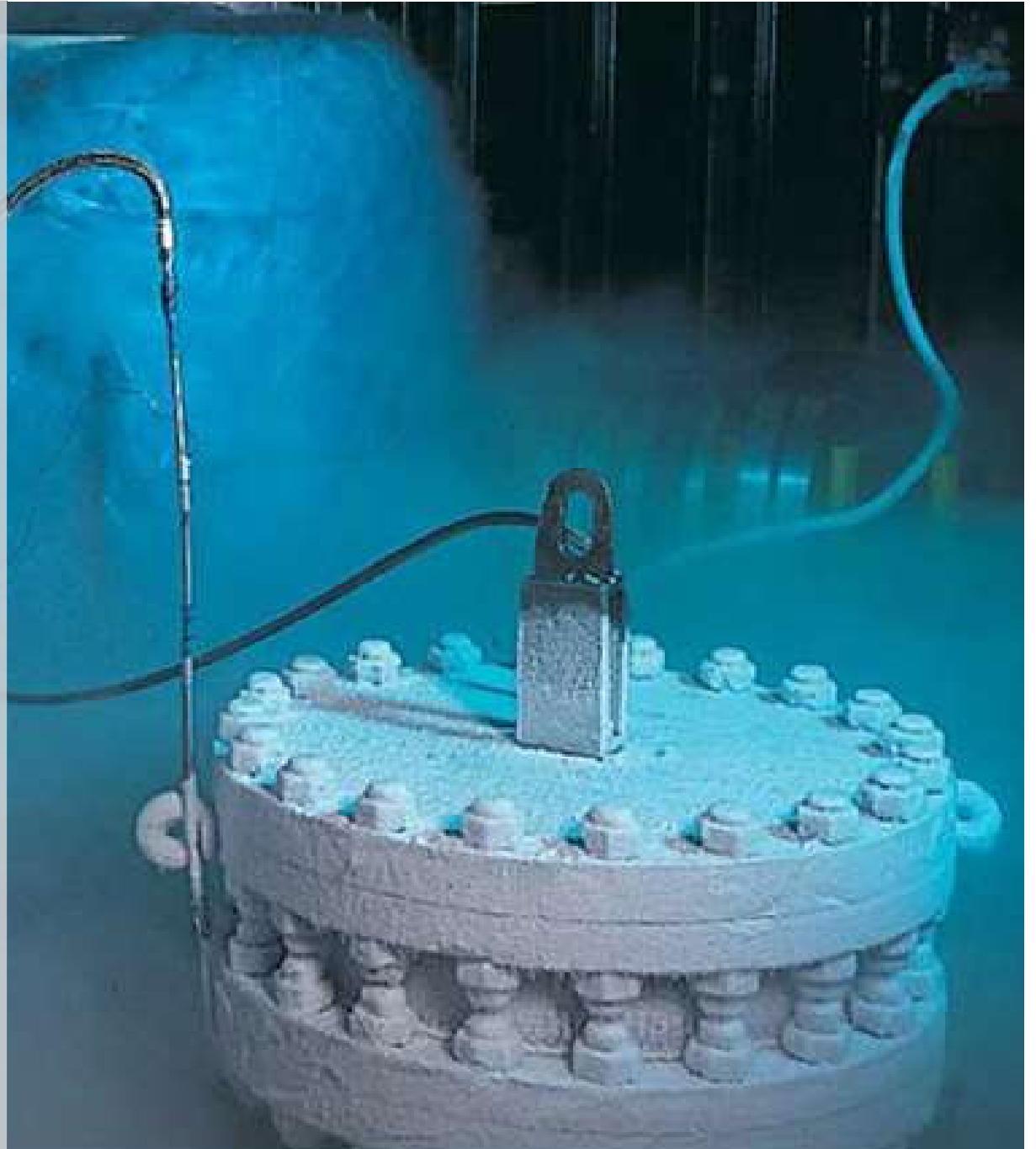


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**A1 QUALITY**

**PARTNER**

**DONGA-VALVE**



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# Vision



# Company Introduction



We, DONG-A VALVE IND., CO. established in 1978 in Busan, Korea, have manufactured low & high pressure valves, Flap check(duo-check) valve, Tilting disc check valve, and strainer which are used for marine offshore project (LNG, FPSO, PLATFORM) and plant industry , etc.

We established a subsidiary Company at 1997, TAE-YOUNG SPECIAL METAL IND., CO. TAE-YOUNG SPECIAL METAL IND., CO. has produced various materials such as Cast Iron, Cast Steel, Stainless Steel, Cast Bronze, Ductile iron, Ni-Aluminum Bronze and Alloy Steel, especially Super Duplex Alloy Steel.

TAE-YOUNG SPECIAL METAL IND., CO. obtained Certificate from ABS, BV, DNV, GL,KR.LR, RINA. Nowadays, D.A.V. is the most well-known valve maker in domestic ship-yard, marine plant, offshore project (FPSO, PLATFORM, etc.) and plant industry .

# Company Locations



## Head Office

Address : 1579-3 Songjung-dong, Kangseo-gu, Busan, Korea  
Tel : +82-51-831-1500  
Fax: +82-51-831-1509  
e-mail : da\_valve@donga-valve.com



## JINHAE Factory

Address : 401, Jookog-dong, Jinhae, Gyeongnam, Korea  
Tel : +82-55-545-2430  
Fax: +82-55-546-2882



## NOKSAN Factory

Address : 1731-11, Songjung-dong, Kangseo-gu, Busan, Korea  
Tel : +82-51-972-0100  
Fax: +82-51-972-9140

## COMPANIES ASSOCIATED WITH DONG-A



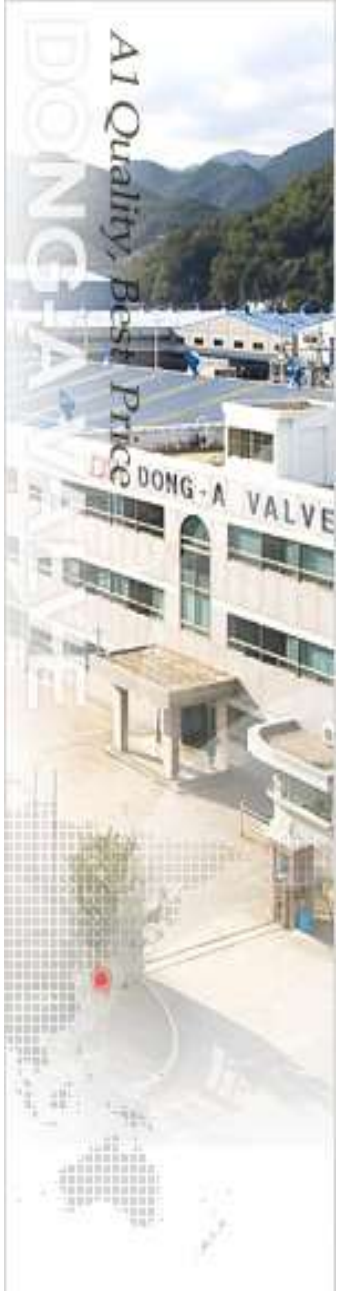
# Company Brief



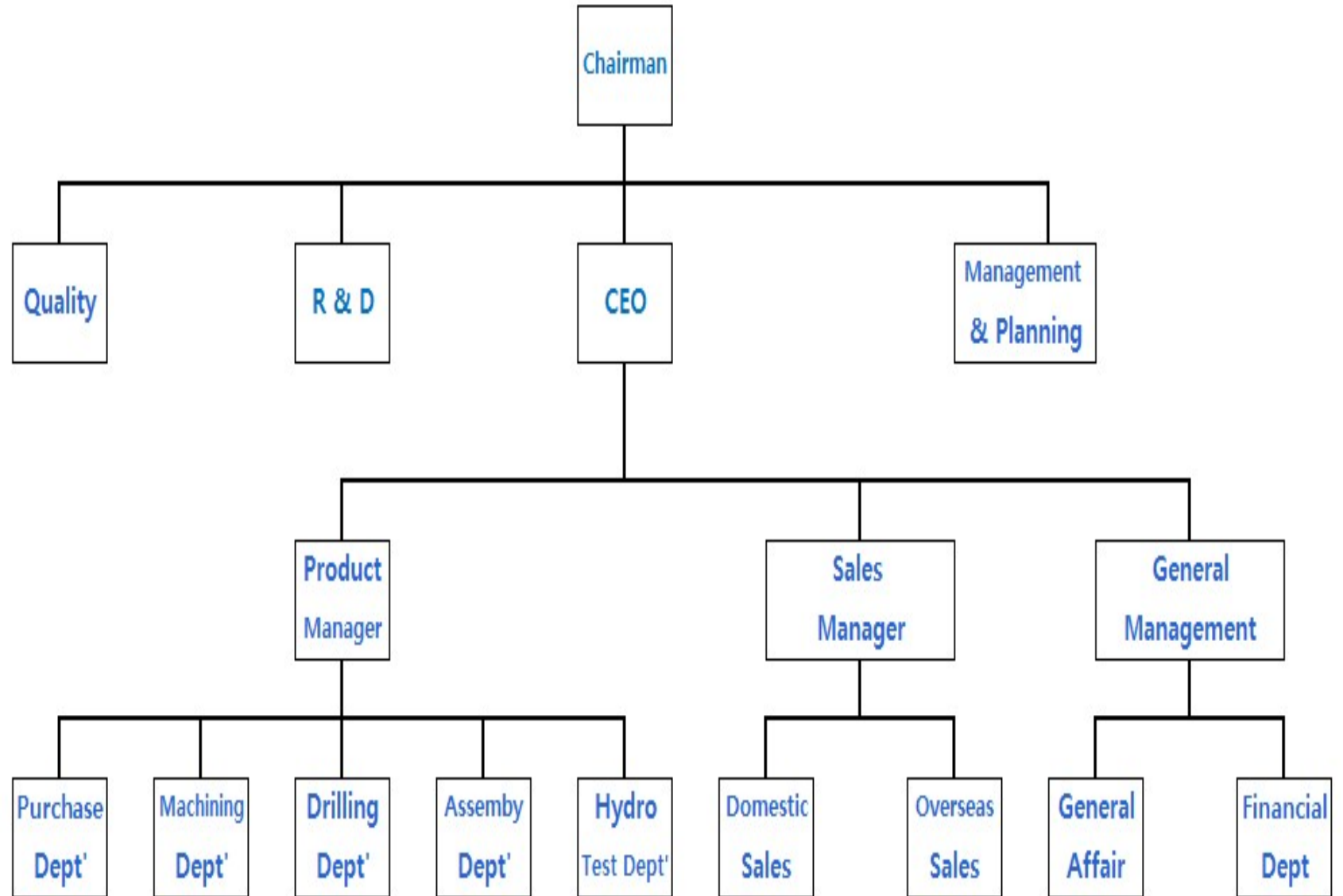
Company	Dong-A Valve	DAV Metal	Tae-Young Metal Co., Ltd.
Established	June. 1978	June. 1997	July. 2008
Location	1579-3 Songjung-dong, Kangseo-gu, Busan, Korea	401. Jookog-dong. Jinhae. Kyungnam. Korea	1731-11. Songjung-dong. Kangseo-gu. Busan. Korea
Phone No.	82-51-831-1500	82-55-545-2430	82-51-972-100
Quality Certification	ISO 9001, CE Mark, API6D, ISO14001, Fire Safety,	Class Certification : ABS, BV, DNV_GL, KR, LR, NK, RINA, RS	Class Certification : LR, KR, BV, DNV, GL
	Design Patent	ISO 9001	ISO 9001
	Practical Patent		
	Marine Plant Approval : EXXON Mobile , BP , TOTAL, ONGC etc.		
Products	Marine, Off-shore, Plant Valves (Gate, Globe, Check, Ball, Strainer)	Valve Casting, Ship Eng. Part (C/Wheel, Cylinder Cover, MBS) Ship-Part Castings	Special alloy Ingot, Large size Valve Casting Ship Eng. Part Castings
			(C/Wheel, Cylinder Cover, MBS)
			Ship-Part Castings
Product Capacity	Fc Valve 600 t/Month	Casting 1,200 t/Month	Casting 4,200 t/Month
	Sc , Etc. Valve 700 t/Month	(Furnace : 0.5t 2, 2t 2, 15t 1)	(Furnace : 20t 2, AOD : 40t 1 )
Sales Capacity	5 Millions US\$/Month	3 Millions US\$/Month (1 Shift)	10 Millions US\$/Month (1 Shift)
Area	13,000 M <sup>2</sup>	10,000 M <sup>2</sup>	13,000 M <sup>2</sup>

# Company Brief

Company		Dong-A Valve		Owner		Tae Sung Kim		Establish		29 <sup>th</sup> June 1978.	
License No.		601-32-64017						Type		Manufacture & Whole sale	
Main Bank		Industrial Bank (Noksan Br.)						Location Con dition		Industrial Complex	
Main Product		FC,SC,BC,SUS Marine Valves						Company Type		Private Company	
		Strainer, Ball Valve									
		Super Duplex (F.P.S.O Marine Plant)									
		Sus 316 LNG Cry Valve									
Management Index		Total Capital			Sales 2019		Sales 2020				
		17.5 Millions US\$(2020)			25.5 Millions US\$		21.5 Millions US\$				
Division		Office	Engineer	Workers	Etc.	TOTAL					
E M P L O Y E E S	Donga-A	25	8	50	2	82					
	DAV Metal	3	2	20	4	32					
	TY Metal	15	5	30	5	55					
	Sub Total	43	15	100	11	169					

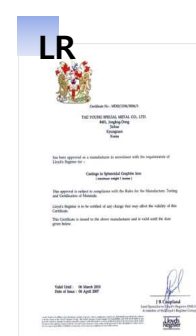
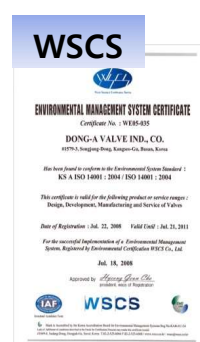
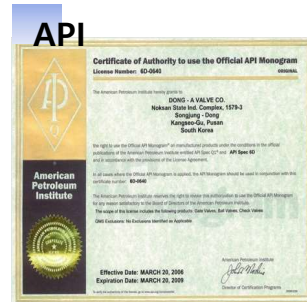
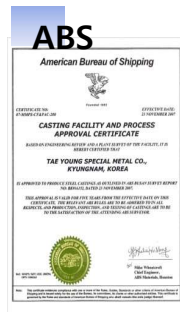


# Organization Chart



# The Certification

Type of Class Certificate : GL(German),DNV(Norway),BV(France),LR(U.K),KR (Korea),RINA (Italy)  
 Etc. : ISO9001(TUV),ISO14001,CE 0035(Module H) ,EXXON Mobil, API Spec 6D



# History of Company

1978's

- 1978. 6 : Established as the name of DONG-A VALVE in Busan Korea.
- 1978. 6 : Listed as HYUNDAI MIPO DOCK YARD Co., Ltd

1980's

- 1980. 11 : Listed as HYUNDAI MIPO DOCK YARD Co., Ltd.
- 1983. 4 : Listed as DAEWOO SHIPBUILDING& MARINE ENGINEERING Co., Ltd.
- 1985. 5 : Listed as HYUNDAI SAMHO HEAVY Ind. Co., Ltd.
- 1985. 7 : Listed as HYUNDAI HEAVY Ind. Co., Ltd.
- 1988. 6 : Listed as SAMSUNG HEAVY Ind. Co., Ltd.

1990's

- 1997. 6 : Established as the name of TAE-YOUNG SPECIAL METAL Co.,
- 1998. 2 : Approved casting manufacturer by G.L., D.N.V,L.R.
  - Listed as Nagasaki HEAVY ind. Co., Ltd. (Nagasaki Shipyard & Manufacture Works)
- 1999. 7 : Head office & factory moved to Nocksan national Area.
- 1999. 11 : Obtained ISO 9001(E.Q.A) : DONG-A VALVE Ind. Co.
- 1999. 12 : Obtained ISO 9001(E.Q.A) : TAE-YOUNG SPECIAL MEAL Co.,

2000's

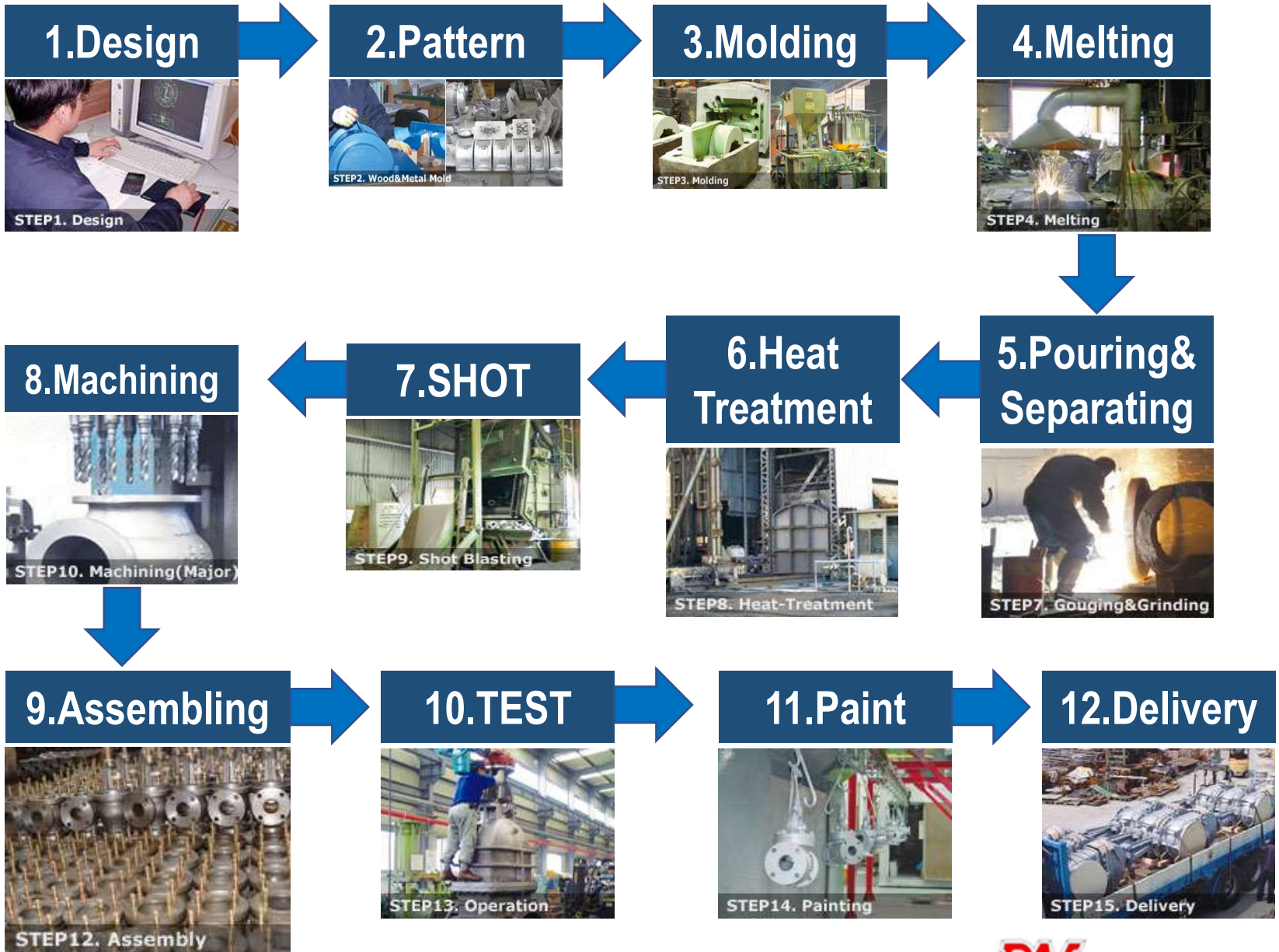
- 2000. 10 : Approved casting manufacture by R.I.N.A (Registro Italiano Navale)
- 2003. 6 : Obtained ISO 9001:2000 Certificate by TUV ; DONG-A VALVE Ind. Co.
  - Obtained CE0035(Community Europe PED/97/23/EC) certificate by TUV
- 2005. 3 : Developed valves for cryogenic (Duo check, Gate, Globe and Ball valve etc)
- 2005. 7 : Obtained ISO 14001:2004(Environmental management system) by WSCS
- 2005. 10 : Obtained Fire Safety certificate by VELOSI (Globe, Gate, Check, Ball valve
- 2006. 3 : Approved steel valves manufacturer by API( American petroleum Institute)
  - /API6D pipeline valves (Gate,Check, Ball ect)
- 2007. 8 : Established as the name of TAE-YOUNG METAL Co.,Ltd. In Noksan. Busan Korea
  - ( Ingot, Ship Engine component etc. )

2010's

- 2010. 1 : Type approved cryogenic valve manufacturer by B.V. ( Bureau Veritas )
- 2010. 3 : Approval manufacturer valves for KEPIC & ASME (N, & NPT Stamp)



# Manufacturing Process





# Equipment

Equipment	Spec.	Qty	Maker
CNC Lathe	600*780	1	Daewoo
	530*600		Daewoo
	530*600		Tong-il
	600*785		Tong-il
	360 kg/Min		Se Kwang
	800*800		Tong-il
Vertical Drilling M/C	Φ30	6	Sam Chun Re
Radial Drilling M/C	Φ60 * M40	1	Joo Kwang
	Φ50 * M30	5	Nam Buk
	Φ50 * M40	2	Do San
	Φ50 * M40	1	Joo Kwang
	Φ54 * M50	1	Dae Jin
	Φ54 * M50	1	Daewoo
Milling M/C	750*370	1	Wha Chun
	1500*450	1	Woo Joo
Lathe	580*1000	1	Nam Sun
	480*1000	2	Nam Sun
	450*1000	4	Nam Sun
	400*1000	2	Nam Sun
	400*1000	2	Tong-il
	480*1500	1	Nam Sun
	580*2000	1	Nam Sun
	600*1500	2	Nam Sun
	720*200	1	Wha Chun
	1800*3000	1	Poong jin
	1800*4000	1	Poong jin
	2500*2500	1	CCCD



# Casting company (DAV Metal)



	Equipment	Year	Spec	Maker
Melt'g	High Freq. Induct. Furnace	03'	0.5t : 2 2 t : 2	Buri Elec.
			15 t : 1	Inductherm
	Thermometer		1100~1800	L&M(USA)
Mold'g	Cont. Mixing	03'	3Ton/Hr	Young Kwang
	batch Type Mix		300kg/Batch	
Pour'g	Ladle	03'	300kg,500kg	
			1ton,2ton	
Heat Treatment	3*4*5m Tank	03'	5ton Batch	Doo Sung
Comp.	compressor	03'	75kw	ATLAS
			15kw	PUMA
Shot Blast	Hanger	03'	2ton	Se Kwang M/C
	Apron	03'	2ton	
Dust Collector	Pulse Type	03'	100,300m3	Domestic
	Shaking Type	03'	70,80m3	Domestic
Post-proce ssor	oxyacetylene welding	03'		Domestic
	Gousing	03'	2000A	Domestic
	Angle Grinder	03'	7"	Domestic
	Welding	03'	300KW	Domestic

Inspect Tester	사양	수량	Maker
Spectrometer	CH. 14	1	BIARD (USA)
Univesal Tester	30ton	1	Kyoung Do
Metal. Microscope	X400	1	Olympus,Union
Hygrometer	0-100%	1	Matsusshida
Hardness Tester	Br. 3000kg	1	Kyoung Do
Ultra Sonic Tester		1	KRAUTKRAME R
Test Piece Cutter		1	
Sand Hammer		1	Kyoung Do
Sand Tester	0-93.5psi	1	Kyoung Do
Test Clay Conteny	60~80RPM	1	Kyoung Do
Counter	0.1~1000g	1	OHAUS(USA)
Polishing M/C	100~1500RPM	1	Dong Young



# Casting company (Tae Young Metal)

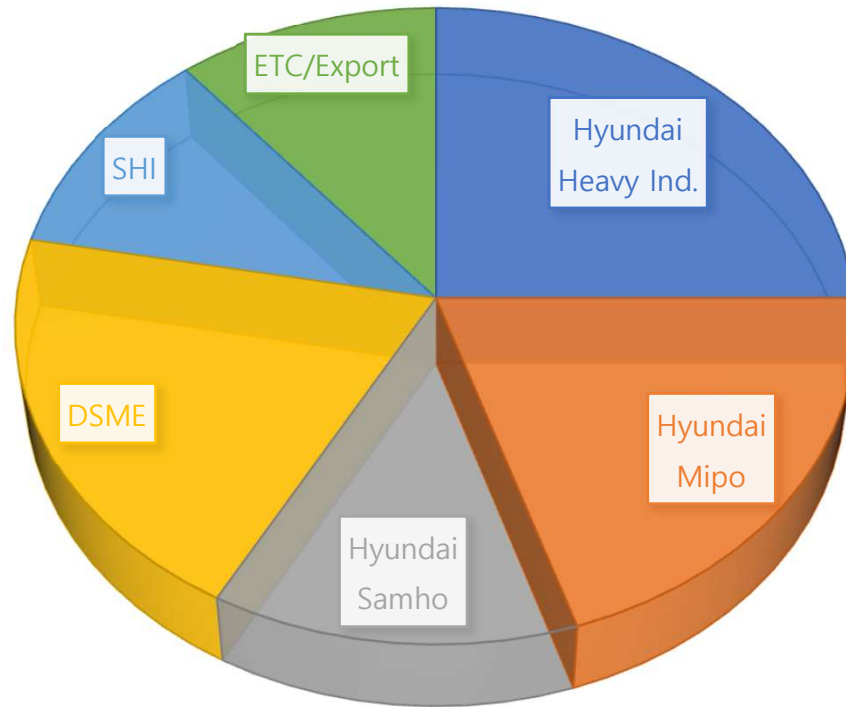


PROCESS	CAPACITY	Q'ty	YEAR	MAKER
MELTING	H.i.Furnace 20Ton(NOR')	2	2008	KOREA INDUCTO-THRM
	AOD (40Ton)	1	2008	USA PRAXAIR
	Thermo. 1,100~1,800 °C	1	2008	KOREA
MOLDING. (Sand Reclaimer)	30 Ton/HR	2	2008	KOREA BAEK DU M/C
	30 Ton/HR	1		
POURING	LADDLE 20Ton~50Ton	5	2008	KOREA
HEAT TREATMENT	40Ton (4000*3500*7000mm)	1	2008	KOREA
COMPRESSOR	125HP	2	2008	KOREA ATLAS COPCO P UMA
SHOT BLASTING	15Ton(2870*3075*2870mm )	1	2008	KOREA SEYANG SHO T M/C
	20Ton(4320*4520*4320mm )	1		
DUST COLLECTOR	200~1800 CMM	6	2008	KOREA
CLEANING & REPAIR EQUIPMENT	-	8	2008	KOREA
	7" etc.	42		
	600A	6		
	500A	3		
	15KW	12		
	2500A	4		
HOIST	2.8 ~ 75 Ton	14	2008	KOREA

Inspect Tester	CAPACITY	Qty	Maker
Spectro meter	2 Base(Ni,Fe) CH. 32	1	G.N.R (ITALY)
Univesal Tester	30ton	1	DeaKyoung Tech
Metal. Microscope	X50~X1,000	1	Nikon
Charpy Impact Tester	30kg.m	1	DeaKyoung Tech
Brinell Hardness Tester	max 3000kgf	1	DeaKyoung Tech
Echotip Hardness Tester	Iver 5mm,5kgf	1	MITUTUYO
Gas Analyzer	3 ch.	1	ELTRA
Sand Molding Tester	Max 2,000 kgf	1	Kyoung Do



# Main customer



Client	(%)	TURN OVER (2020)
Hyundai Heavy Ind.	21.0%	21.5MILLION\$
Hyundai Mipo	18.0%	
Hyundai Samho	17.0%	
DSME	17.0%	
SHI	15.0%	
ETC/Export	12.0%	

AI Quality, Best Price  
DONG-A VALVE