



**AUTO PARTS**

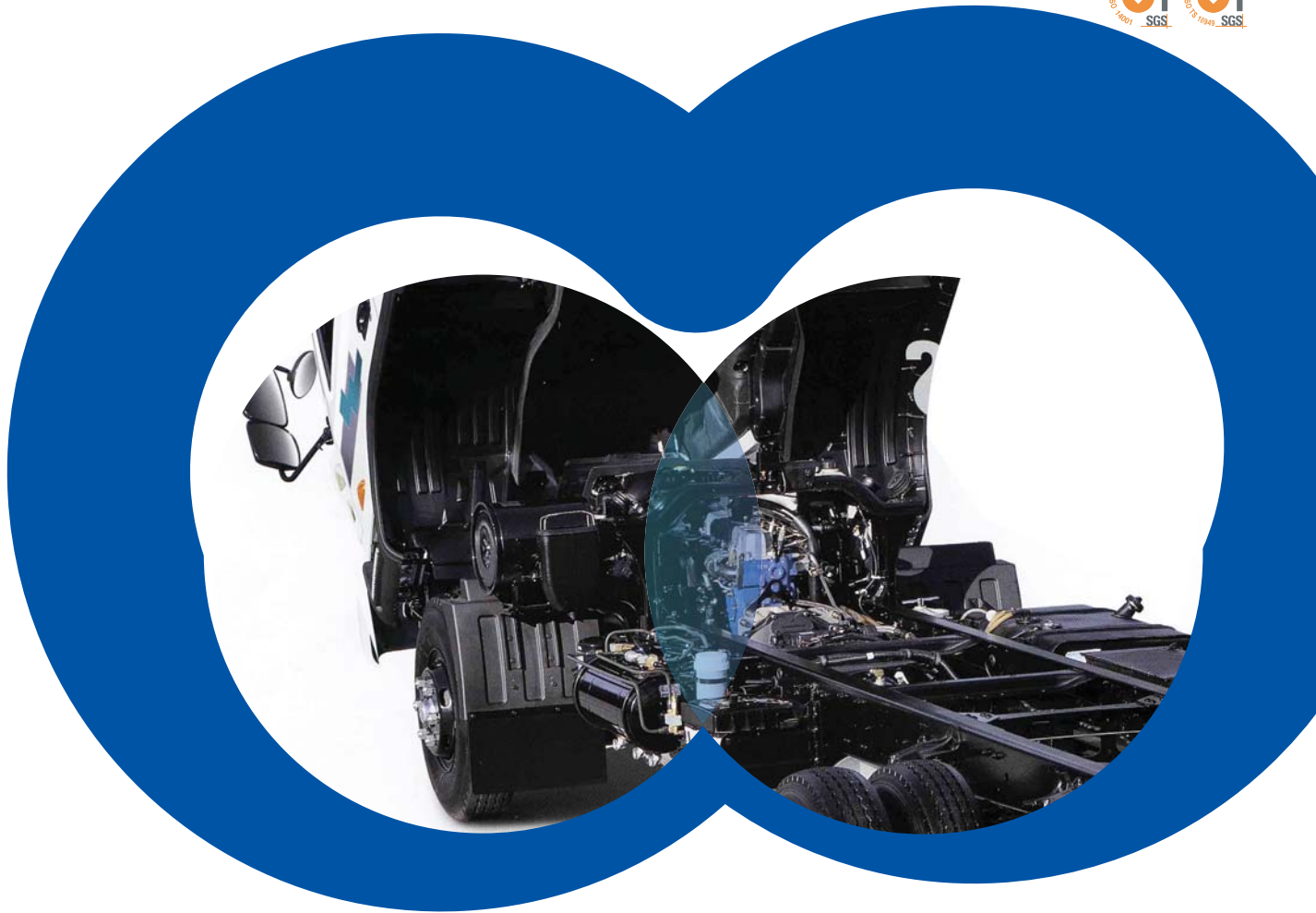
- Fittings & Connectors
- Air brake valve parts
- Engine parts
- Transmission Gear Shift parts
- Gas Fuel Tank parts

**PUMP PARTS**

- Impellers & Liners
- Application models

**HYDRAULIC VALVE**

- 2, 3Way ball valve
- Male & Flare tube
- Male & Hose
- Minutia valve



**(주)엠스코**

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**EMSCO**

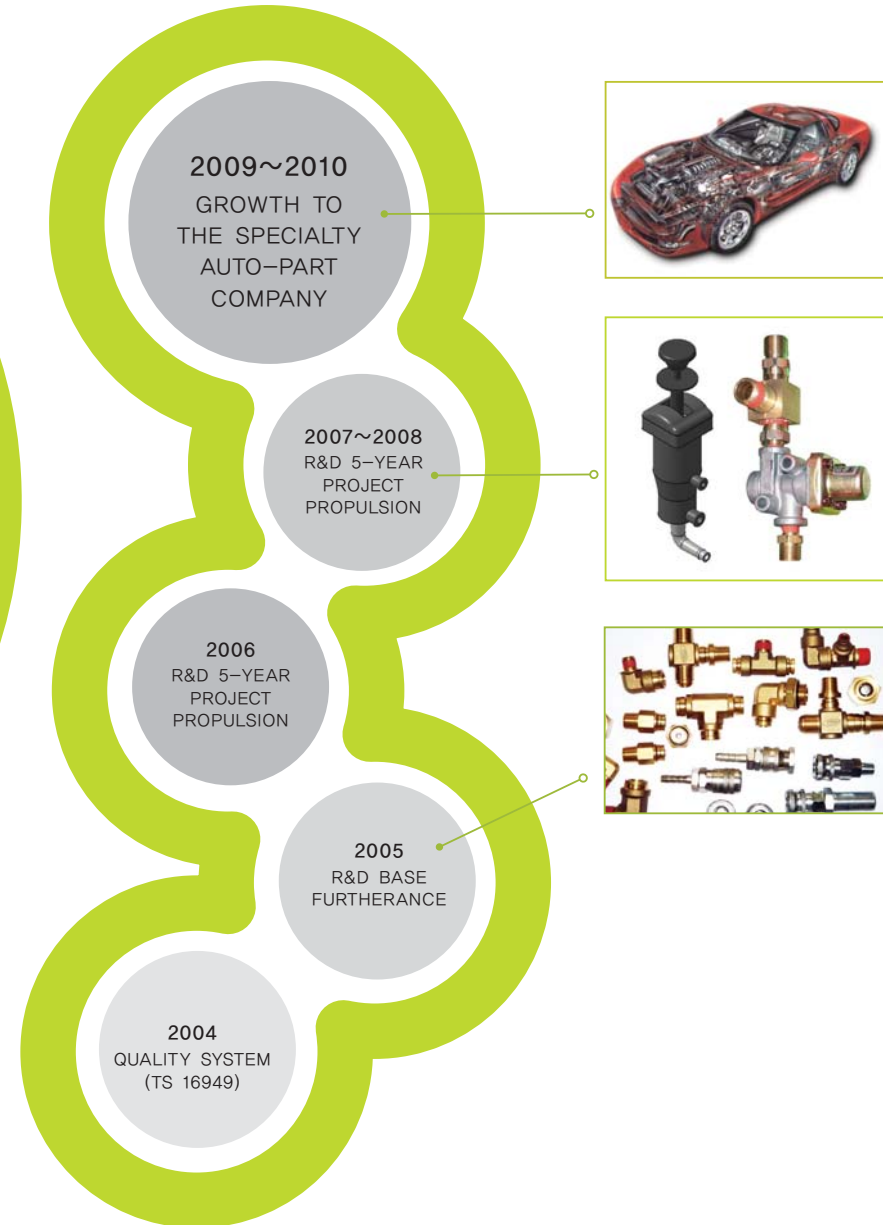
# EMSCO VISION 21(EV10)



(주)엠스코는 밸브 및 커넥터 전문업체에서 품질, 환경 경영체제에 의한 기술혁신과 경영혁신으로 21세기 자동차 부품 전문회사로 발전을 거듭할 것입니다. 또한 고객만족 극대화과 기술력 확보에 의한 첨단 부품생산을 목표로 지속적인 노력을 기울일 것 입니다.

EMSCO may repeat development from valve and connector special company to 21C auto-component special company by technology and management innovation through quality and environment administration system.

Also, EMSCO may incline continuous effort for advanced auto-parts production through the greatest customer satisfaction and technology competitive power security.





## Introduction

(주)엠스코는 1986년 설립 이래 고압 및 유압조절시스템용의 다양한 밸브류와 배관용 관이음쇠류를 생산하여 왔습니다. 설계 및 단조에서 가공까지 이어지는 하나의 생산시스템을 갖추고 신속한 개발 및 적기납품, 경쟁력 있는 가격을 실현하며 지속적인 개선을 통한 내 외부 고객만족을 실현하는 품질시스템을 지향하고 있습니다. 이것은 국제 규격인 ISO/TS16949, ISO14001에 의한 품질경영체제를 통하여 실현되고 있습니다.

급변하는 세계화속에서 엠스코는 현대자동차(주)의 1차 협력업체로서의 부품 공급경험을 바탕으로 해외 OEM 업체를 향한 활발한 시장개척 활동을 펼치고 있습니다.

매출, 품질, 고객만족 2배를 목표로 엠스코는 끊임없는 품질혁신과 지속적인 개선을 통하여 세계수준의 회사로 성장할 것입니다.

EMSCO, since 1986, has produced various valves and connectors for hydraulic, fluid delivery system.

From design, forging to manufacturing, these are process it in our factory, so can achieve through quicker deliveries, competitive prices. In addition, it outs great emphasis on customer satisfaction through strict quality management system with continuous improvement.

EMSCO is realizing this through international quality system such as ISO/TS16949, ISO14001 in the trend of globalization, EMSCO is currently knocking to business overseas market continuously on experience that have supplying auto parts by tier I of HYUNDAI MOTOR.

All our employees keep trying our best efforts to achieve the goals of 2 times better quality, sales amount and satisfaction, EMSCO will grow its reputation as the world's elite company through the high quality innovation and continuous improvement.

## History

- 1986 진보정밀공업 설립
- 1995 고압용 Ball valve 개발
- 1998 현대자동차(주) 협력업체 등록-커넥터류 및 변속장치 부품
- 윌로펌프(주) 협력업체 등록-임펠러 및 펌프부품
- 1999 법인전환(진보정밀공업주식회사)
- 2001 QS9000, ISO9002 품질경영시스템 인증
- 2002 윌로펌프(주) 6시그마 품질최우수업체 선정
- 2004 ISO/TS16949 품질경영시스템 인증
- 원터치 튜브피팅 및 커플러 특허 등록
- ISO14001 환경경영시스템 인증
- 2005 원터치 튜브커플러 미국 특허 등록
- 기술연구소 설립 인증
- 원터치 튜브커넥터 특허 등록
- 2006 기술혁신형 중소기업 인증(INNOBIZ)
- 벤처기업 인증
- 전주공장 설립
- 2007 (주)엠스코로 법인명의 변경

- 1986 Established JINBO Precision
- 1990 Established 2nd Factory, Moved Head Office
- 1995 Developed Hydraulic Ball Valves for high pressure
- 1998 Nominated as "Tier I" of Hyundai Motor Co., Ltd.
- Nominated as main supplier of WILCO Pumps Co., Ltd.
- 1999 Changed company name to JINBO PRECISION Ind. Co., Ltd.
- 2001 Approved to QS9000 & ISO9002(SGS ICS)
- 2003 Awarded prize as "6σ Best QUALITY COMPANY" from WILCO Pumps Co., Ltd.
- 2004 Acquired Patent of One Touch and Swivel Type Tube Fitting and Coupler.
- Approved to ISO/TS16949 & ISO14001(SGS ICS)
- 2005 Certified to Technology research institute (KOITA)
- Acquired USA Patent for Swivel Type Tube Coupler
- Acquired Patent right for One Touch Tube Coupler
- 2006 Certified to "INNO-BIZ Company" -No.6111 -2103
- Certified to "Venture Corp" -No.2006
- Established 3rd Factory-Jeonju plant
- 2007 Changed company name to EMSCO INC.



# Engineering Innovation Management Innovation Satisfaction of Customers COmpany

## Certificate/Patent



## R&D 연구개발

엠스코는 지속적인 연구개발 투자를 통해서 주력제품의 고유모델 개발과 세계적 수준의 제품개발 능력을 보유하게 되었으며, 인간친화적 기술, 친환경적 기술, 경량화 기술개발에 노력하고 있습니다.

EMSCO, which succeeded in independent development of peculiar models for main stream line, became to possess world class product development ability through continuous R&D investment and is focusing on human friendly technology, environment friendly technology and design of weight reduction.

## Quality warranty 품질보증

엠스코는 모든 제품의 품질향상을 위해서 수입검사에서 설계, 생산, 시험에 이르기까지 각종 첨단장비와 자동화된 시험설비를 사용하여 완벽한 제품만을 생산하고 있습니다. 또한 TS16949/ISO14001을 비롯한 국제 인증서를 획득함으로써 세계화된 품질수준을 보증하고 있습니다.

We are manufacturing only perfect products using all sorts of high tech equipment and automatic testing facilities from the stage of import inspection to design, production and test for quality improvement of all products. We guarantee world class quality by possessing various international certificates including TS16949/ISO14001.



## Factory facility

(주)엠스코는 최적화된 주조(다이캐스팅), 단조, 가공, 조립, 시험검사의 생산시스템으로 최상품질의 제품 생산과 적기 납품을 통해서 고객만족을 실현하고 있습니다.

EMSCO is realizing customer satisfaction through product manufacturing of best quality and quicker deliveries of goods by optimized manufacturing system (forging, machining, assembly, inspection).



Forging & Casting Line



CNC Tapping Line



CNC Turning Line



MCT Line

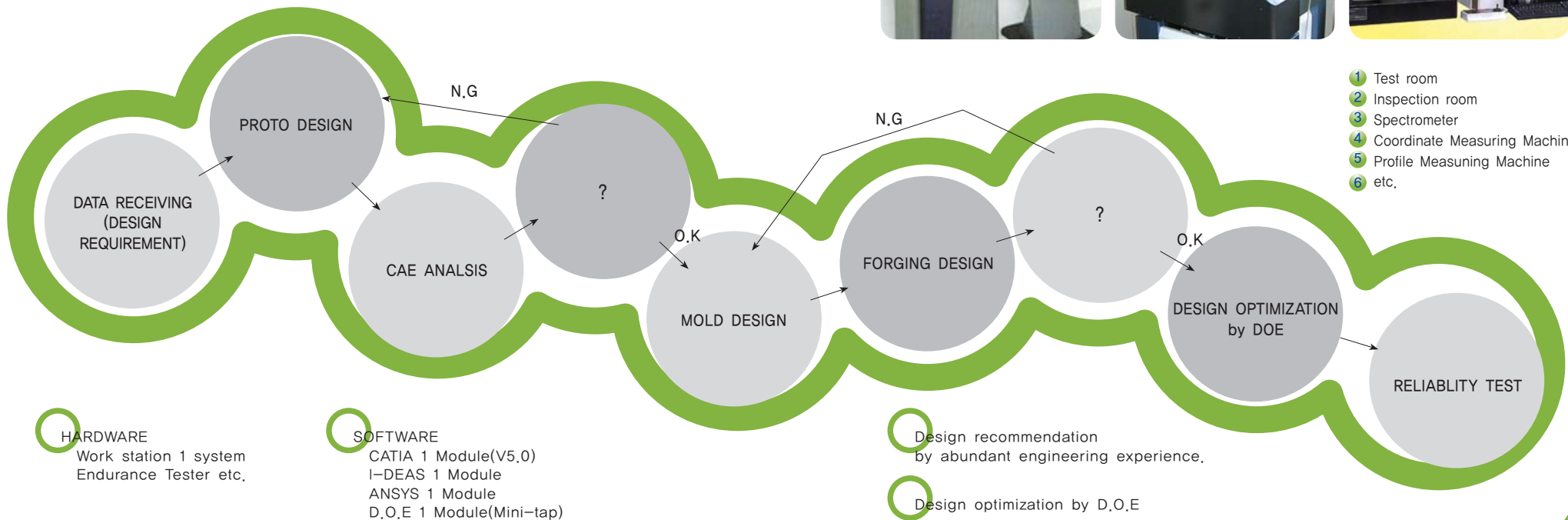
No.	Equipment	Spec.
1	CNC TURNING M/C	6~10"
2	TAPPING MCT	BT30
3	VER. & HOR. MCT	BT30~50
4	GENERAL LATHE	1200mm
5	GENERAL MILLING	300X800
6	FORGING PRESS	80~400ton
7	DIGCASTING M/C	150~650ton
8	INDUCTION HEATER	300kW
8	DISCHARGE M/C	300X500
10	SHOT BLASTER	Apron
11	AUTO SAWING M/C	NC
12	Welding M/C etc.	NC

# Inspection & Test

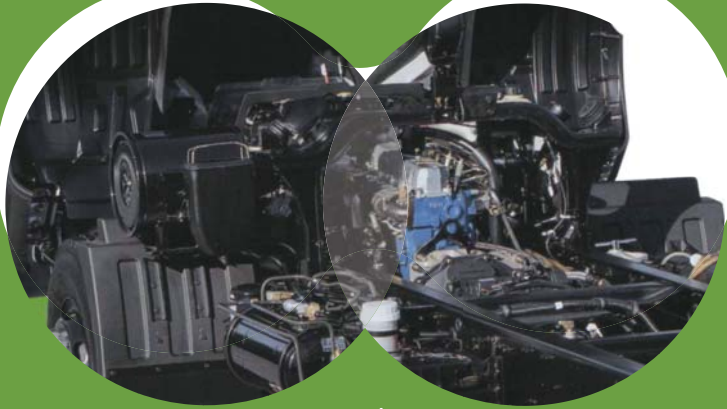


- 1 Test room
- 2 Inspection room
- 3 Spectrometer
- 4 Coordinate Measuring Machine
- 5 Profile Measuring Machine
- 6 etc.

# Engineering Capability



# Fitting & Connector



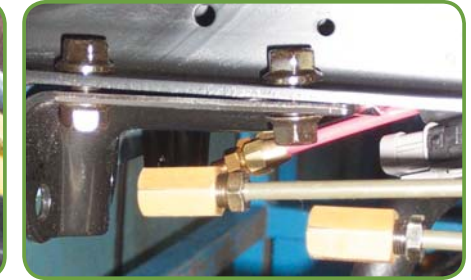
(주)엠스코는 각종 Fitting류, TGS 시스템의 부품등을 현대자동차(주)의 중대형 트럭 및 버스타인에 공급하고 있습니다. 특히 커넥터류는 다양한 형태의 나사규격 즉, Metric, Unify, Taper, 평행나사, SAE/MS O-ring Seal형 등을 생산공급하고 있으며, BS, DIN, JIS, SAE, KS규격 사양에 적합한 선박, 자동차, 산업설비용에 적용되는 연결구류를 주문 생산하고 있습니다.

EMSCO is supplying connectors of various kinds, transmission gear shift (TGS) system parts at buses and heavy trucks line of Hyundai Motor. In addition, it has been manufactured various thread type metric, unified, tapered, straight pipe thread and SAE/MS O-ring seal type, EMSCO can supply it by "customer made" as follows local standards-BS, DIN, JIS, SAE, KS standards etc. for ships, automobile parts and industrial equipments.

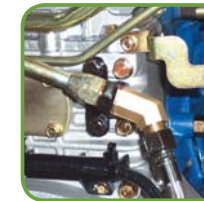


## Air brake parts & Fittings, Connectors

Connectors of Air tank & Air line



Connectors & Air brake valves



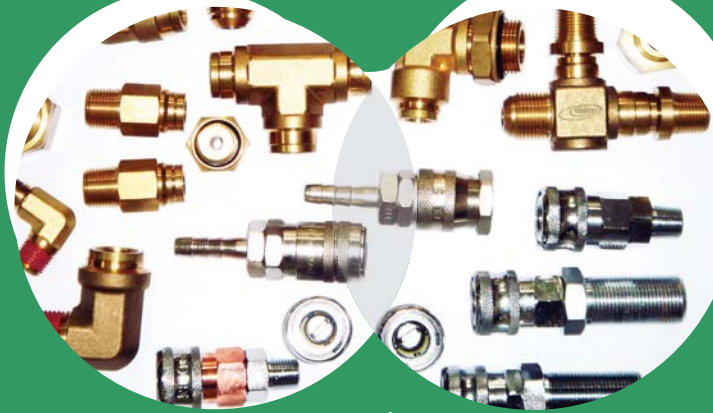
Gradual parking brake valve



Relay & Modulate valve



Quick release & Modulate valve



## High pressure air one touch fittings



Quick disconnect coupling  
 Max. pressure : 30kgf/cm<sup>2</sup>  
 Operating temp. : -40~150°C

One touch fitting  
 Max. pressure : 30kgf/cm<sup>2</sup>  
 Operating temp. : -40~150°C  
 Tube dia. :  $\frac{3}{8}$ " ,  $\frac{1}{4}$ "  $\frac{1}{2}$ " , 1"

Swivel fitting  
 Max. pressure : 30kgf/cm<sup>2</sup>  
 Operating temp. : -40~150°C  
 Tube dia. :  $\frac{3}{8}$ " ,  $\frac{1}{4}$ "  $\frac{1}{2}$ " , 1"

## Engine & Comp. Parts



Heater valve & parts



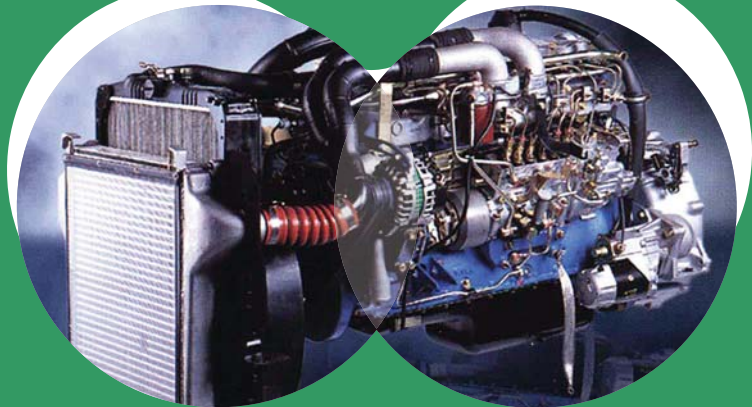
Water pump & Comp. parts



Shim & Washer

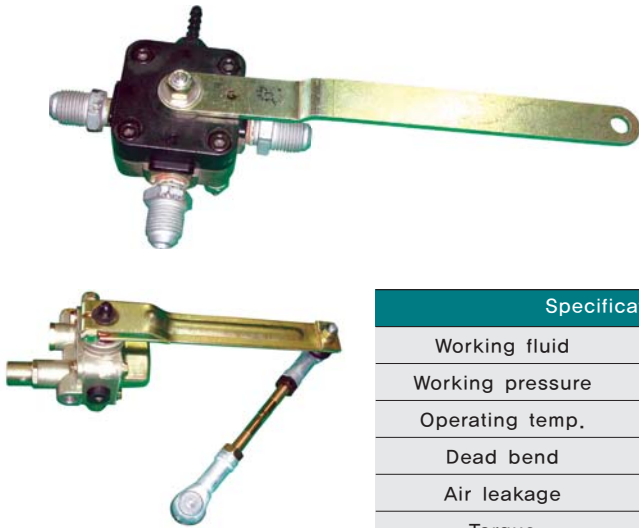


Housing parts





## Leveling Valve



Specification	
Working fluid	Air
Working pressure	10 Kg/cm <sup>2</sup>
Operating temp.	-40~100°C
Dead bend	2~4°
Air leakage	5SCCM↓
Torque	60~75cm · kgf

## TGS (Transmission Gear Shift) parts



Bar ass' y



Cross shaft



Transmission Gear shift

엠스코(주)는 상용자동차의 기어변속부품을 생산하여 현대자동차와 기아자동차에 공급하고 있으며, 기술개발을 통하여 부품의 경량화에 노력하고 있습니다. 그리고 LPG, LPI 등의 저공해 연료탱크용 차단밸브와 분배밸브를 생산, 판매하고 있습니다.

EMSCO is supplying the Hyundai Motors and KIA Motors, and is trying for reduce the weight of parts through technical development producing transmission gear shift parts of commercial vehicles. And is producing and sell cut-off valve and distributing valve for low pollution fuel tank of LPG and LPI etc.





## GAS Reservoir parts



OCP valve ass'y



Multi valve housing

## Pump parts

(주)엠스코는 임펠러와 라이너 등을 비롯한 다양한 황동소재의 펌프부품을 월로 펌프(주)에 공급하고 있습니다. 또한 산업용의 다양한 볼 밸브류를 주문생산 및 판매하고 있습니다.

EMSCO is supplying the impellers, liners and others based material at Wilo pumps Co., Ltd, in Korea. Also, is producing by order specification and sell various hydraulic ball valves for industry.



Impellers & liners

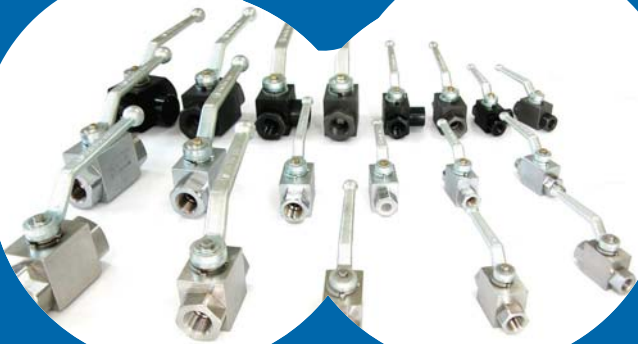
Ejector & Nippler Ass'y



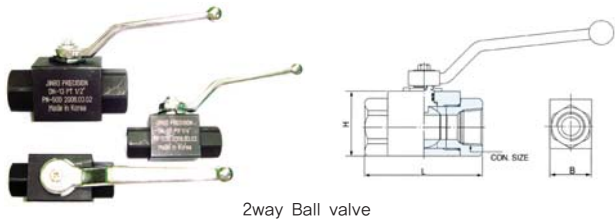
# Forged Brass Needle Valves

황동단조 밸브류는 다양한 형태의 규격별로 생산되고 있으며, 나사규격은 NPT테이퍼형, 평행형 등의 배관나사는 물론 튜브 대 튜브형, 튜브 대 수나사형, 튜브 대 암나사형, 튜브 대 AN 튜브형, 튜브 대 SAE/MS O-ring Seal형 등 고객의 요구에 따라 다양하게 공급하고 있습니다.

EMSCO has produced single ferrule tube fittings in various fractional and metric sizes, materials, threads sizes include NPT tapered and parallel, ISO tapered and parallel pipe threads and connections include tube to tube, tube to male, tube to female, tube to AN tube, and tube to SAE/MS O-ring seals.



# Hydraulic Valves



2way Ball valve



3way Ball valve

- Body & Cap Material : Carbon steel & Stainless steel
- Ball Material : Stainless steel
- Stem Material : Carbon steel & Stainless steel
- Handle Material : Zn, Al, Carbon steel
- Ball Seals : POM, PEEK



Type
Female
Male & Flare
Male & Hose
Minutia Valves

Specification	
Body material	C3771BE(Brass)
Spindle & Cap Nut material	C3604BD(Brass)
Handle material	Zn or Al
Backup seal material	PTFE
Operating temperature	-20 °C~150 °C
Working pressure	10kgf/cm <sup>2</sup>

## Minutia Valves



## Cock Valves & Hose



### Specification

Body material	C3771BE(Brass)
Spindle & Cap Nut material	C3604BD(Brass)
Handle material	STEEL
Backup seal material	NBR
Operating temperature	-20 ℃~120 ℃
Working pressure	10kgf/cm <sup>2</sup>