



## SALES NETWORK

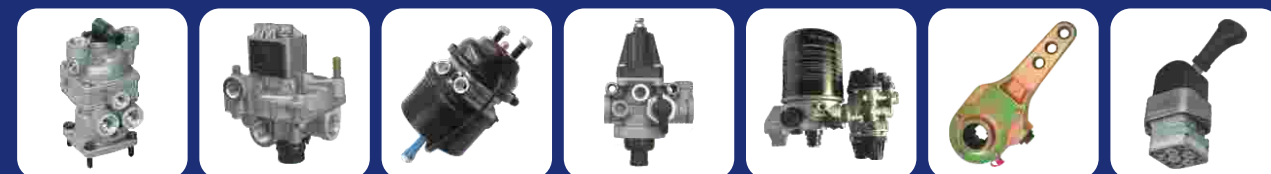


## *Specialized Manufacturer*



**LH<sup>®</sup> HONGLIANG**  
**ZHEJIANG HONGLIANG AUTO PARTS CO.,LTD.**

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**ZHEJIANG HONGLIANG AUTO PARTS CO.,LTD**  
**[www.cnhongliang.com](http://www.cnhongliang.com)**

## Company Profile

Zhejiang Hongliang Auto Parts Co., Ltd. is located in Fengqiao Industrial Zone , Zhuji, Zhejiang , China. It established in 1996, which is a professional manufacturing of European auto spare parts . It covers an area of about 15,000 square meters , serving more than 100 employees. Our company primarily engages in development , production, sales of the brake valves, boosters, brake chambers, dryers, adjusters . Good technology , good quality , domestic annual sales is more than 50 million yuan. The company has been committed to building a complete sales network smoothly, covering Beijing, Kunming, Tianjin, Taiyuan, Guangzhou, Chengdu, Zhengzhou, Changsha, Shenyang, Jinan, more than 50 cities. It wins the customers with thoughtful , perfect pre-sale and after-sales service development of the enterprise. The company also is supplier of truck plant accessories , young, Shaanxi Auto, JAC, FAW, etc.

Hongliang' s good quality auto spare parts, are not only from the company's advanced manufacturing equipment and sophisticated detection equipment, but also on the company's excellent management mechanisms and philosophy. It earlier passed the ISO9001 certification of quality management system and TS16949 international certification of quality management system. We uphold the business purpose of “ making high, refined, new products attract domestic and foreign customers at a reasonable price with high quality and services . Since 2005, the company is committed to open up foreign markets, serving te customers from Turkey, UAE, India, Ukraine, South Korea, Syria, Australia, Germany, Russia, Britain and other places of the world . the products is on sale in more than 100 countries.

We have enough confidence in the quality products and reasonable prices to bring customers more profitable. Choose us, choose a sincere friend, choose a reliable partner! Zhejiang Hongliang Auto Parts Co., Ltd. are willing to work with friends all over the world for a better future!



## Production Equipment



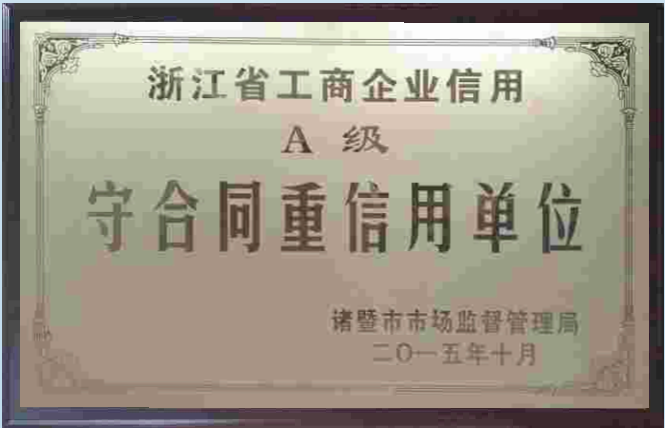


# Enterprise Honor

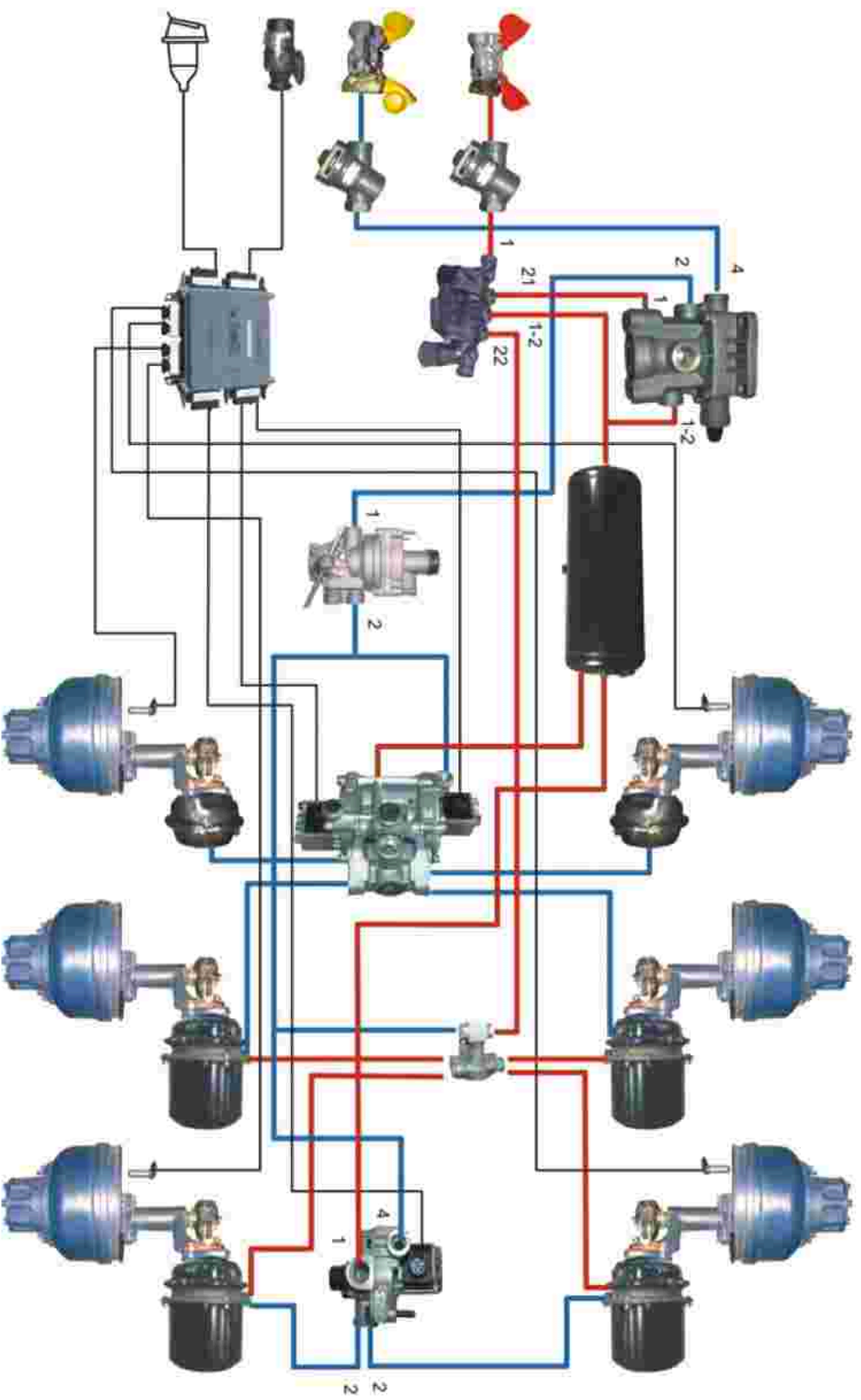


## PRODUCT INDEX

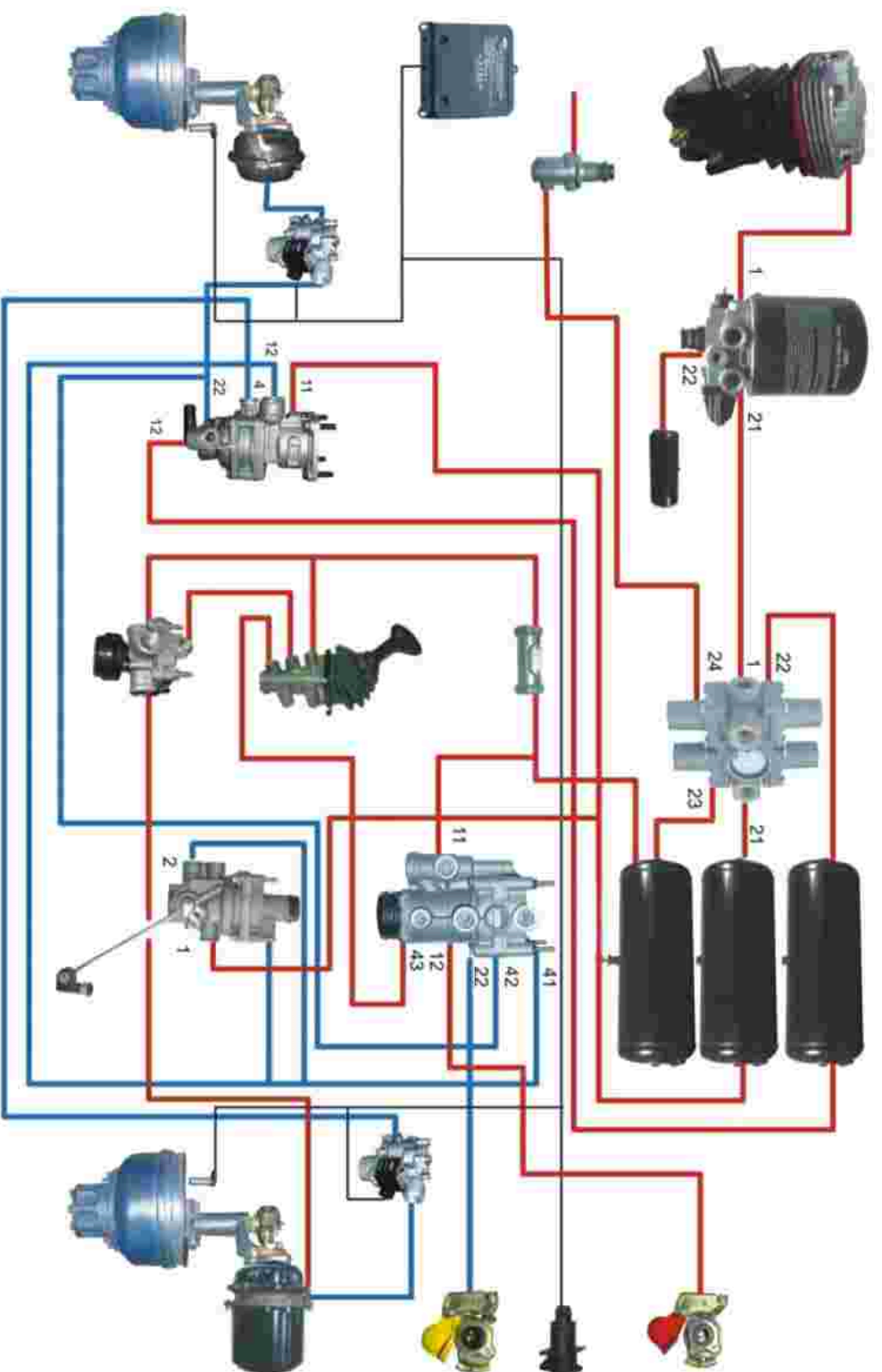
| Product Name                           | Page |
|----------------------------------------|------|
| FOOT BRAKE VALVE                       | 01   |
| RELAY VALVE                            | 05   |
| HAND BRAKE VALVE                       | 09   |
| LEVELING VALVE                         | 13   |
| TRAILER CONTROL VALVE                  | 17   |
| FOUR CIRCUIT PROTECTION VALVE          | 19   |
| SOLENOID VALVE                         | 22   |
| AIR DRYER                              | 27   |
| UNLOADER VALVE                         | 31   |
| PRESSURE LIMITING VALVE                | 32   |
| GEARBOX VALVE、CONTROL VAVLE            | 34   |
| QUICK RELEASE VALVE、SINGLE CHECK VALVE | 38   |
| GEARSHIFT HANDLE                       | 42   |
| SPRING BRAKE CHAMBER                   | 44   |
| CLUTCH SERVO                           | 49   |
| AIR HOSE、ELECTRIC COUPLER              | 57   |
| GLAND HEAD                             | 58   |
| QUICK COUPLING                         | 59   |
| HUB COVER                              | 61   |
| SLACK ADJUSTER                         | 62   |



Trailer



Truck

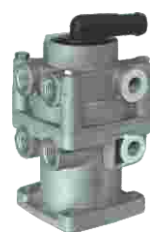






### FOOT BRAKE VALVE

HL NO.: HL81001  
REF NO.: H461 315 008 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



### FOOT BRAKE VALVE

HL NO.: HL81001C  
REF NO.: H461 315 042 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5  
PORT 11,12: M12x1.5



### E6 FOOT BRAKE VALVE

HL NO.: HL81010  
REF NO.: H286171  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 4-NPT3/8  
DELIVERY PORTS: 4-NPT3/8



### FOOT BRAKE VALVE

HL NO.: HL81011  
REF NO.: H268880  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 4-NPT3/8  
DELIVERY PORTS: 4-NPT3/8  
COMMENTS: E6 WITH PADAL



### FOOT BRAKE VALVE

HL NO.: HL81002  
REF NO.: H461 319 008 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5  
PORT 4: M12x1.5



### FOOT BRAKE VALVE

HL NO.: HL81003  
REF NO.: H461 315 248 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5 VOSS  
PORT 12: M22x1.5 VOSS  
PORT 21: M22x1.5 VOSS  
PORT 22: M22x1.5 VOSS



### E3 FOOT BRAKE VALVE

HL NO.: HL81012  
REF NO.: H277863  
TECHNICAL PARAMETERS:  
SUPPLY PORTS(2) NPT1/2  
AUX. SUPPLY PORTS(2) NPT1/4  
DELIVERY PORTS (4) NPT1/2



### FOOT BRAKE VALVE

HL NO.: HL81013  
REF NO.: HMB4690  
TECHNICAL PARAMETERS:  
11,12,21,22: 8-M16x1.5  
11,12,21: 3-M12x1.5



### FOOT BRAKE VALVE

HL NO.: HL81004  
REF NO.: H461 315 258 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5 VOSS  
PORT 12: M22x1.5 VOSS  
PORT 21: M22x1.5 VOSS  
PORT 22: M22x1.5 VOSS



### FOOT BRAKE VALVE

HL NO.: HL81005  
REF NO.: H461 319 271 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5 VOSS  
PORT 12: M22x1.5 VOSS  
PORT 21: M22x1.5 VOSS  
PORT 22: M22x1.5 VOSS  
PORT 4: M16x1.5 VOSS



### FOOT BRAKE VALVE

HL NO.: HL81014  
REF NO.: H461 315 180 0  
TECHNICAL PARAMETERS:  
PORT 11: Φ12  
PORT 12: Φ12  
PORT 21: Φ12  
PORT 22: Φ12



### FOOT BRAKE VALVE

HL NO.: HL81015  
REF NO.: HMB4694  
TECHNICAL PARAMETERS:  
AIR INLET: 11,12=M22x1.5  
AIR DELIVERY: 21,22: M22x1.5



### FOOT BRAKE VALVE

HL NO.: HL81006  
REF NO.: H461 319 270 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5 VOSS  
PORT 12: M22x1.5 VOSS  
PORT 21: M22x1.5 VOSS  
PORT 22: M22x1.5 VOSS  
PORT 4: M16x1.5 VOSS



### FOOT BRAKE VALVE

HL NO.: HL81007  
REF NO.: H461 315 264 0  
TECHNICAL PARAMETERS:  
PORT 11: Φ15  
PORT 12: Φ15  
PORT 21: Φ15  
PORT 22: Φ15



### FOOT BRAKE VALVE

HL NO.: HL81016  
REF NO.: HMB4694A  
TECHNICAL PARAMETERS:  
AIR INLET: 11,12=M22x1.5  
AIR DELIVERY: 21,22: M22x1.5



### FOOT BRAKE VALVE

HL NO.: HL81017  
REF NO.: H461 318 604 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5  
PEDAL ANGLE: 30°



### FOOT BRAKE VALVE

HL NO.: HL81008  
REF NO.: H461 319 274 0  
TECHNICAL PARAMETERS:  
PORT 11: Φ15  
PORT 12: Φ15  
PORT 21: Φ15  
PORT 22: Φ15  
PORT 4: Φ10



### FOOT BRAKE VALVE

HL NO.: HL81009/81009A  
REF NO.: HMB4820  
HMB4821(A)  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5  
PORT 12: M22x1.5  
PORT 21: M22x1.5  
PORT 22: M22x1.5



### FOOT BRAKE VALVE

HL NO.: HL81018  
REF NO.: H461 491 102 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5  
PORT 12: M22x1.5  
PORT 21: M22x1.5  
PORT 22: M22x1.5



### FOOT BRAKE VALVE

HL NO.: HL81019  
REF NO.: H461 307 200 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5  
PORT 12: M22x1.5  
PORT 21: M22x1.5  
PORT 22: M22x1.5



## E-7 FOOT BRAKE VALVE

HL NO.: HL81020  
REF NO.: H286773  
TECHNICAL PARAMETERS:  
SUPPLY: 2-NPT1/2,4-NPT1/4  
DELIVERY: 2-NPT1/2,4-NPT1/4



## E-8P FOOT BRAKE VALVE

HL NO.: HL81021  
REF NO.: H800629  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 4-NPT3/8  
DELIVERY PORTS: 4-NPT3/8  
AUXILIARY PORTS: 1-NPT3/8



## FOOT BRAKE VALVE

HL NO.: HL81030  
REF NO.: HDX60B  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
OTHER PORT: φ 13



## FOOT BRAKE VALVE

HL NO.: HL81031  
REF NO.: HDX65D  
TECHNICAL PARAMETERS:  
PORT 11: φ 13  
PORT 12: φ 13  
PORT 21: φ 13  
PORT 22: φ 13



## FOOT BRAKE VALVE

HL NO.: HL81022A  
REF NO.: H461 307 439 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## FOOT BRAKE VALVE

HL NO.: HL81022B  
REF NO.: H461 307 479 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5  
PORT 12: M22x1.5  
PORT 21: M22x1.5  
PORT 22: M22x1.5



## FOOT BRAKE VALVE

HL NO.: HL81032  
REF NO.: HDX65C  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## FOOT BRAKE VALVE

HL NO.: HL81033  
REF NO.: HDX75BBA  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## FOOT BRAKE VALVE

HL NO.: HL81023  
REF NO.: H461 494 502 0  
TECHNICAL PARAMETERS:  
PORT 11: φ 12  
PORT 12: φ 12  
PORT 21: φ 12  
PORT 22: φ 12



## FOOT BRAKE VALVE

HL NO.: HL81025  
REF NO.: H461 318 071 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
OTHER PORT: M16\*1.5



## FOOT BRAKE VALVE

HL NO.: HL81026  
REF NO.: H461 318 049 0  
TECHNICAL PARAMETERS:  
PORT 11: M12x1.5  
PORT 12: M12x1.5  
OTHER PORT: M16\*1.5



## FOOT BRAKE VALVE

HL NO.: HL81027  
REF NO.: H461 318 001 0  
TECHNICAL PARAMETERS:  
PORT 11: M16x1.5  
PORT 12: M16x1.5  
OTHER PORT: M16\*1.5



## FOOT BRAKE VALVE

HL NO.: HL81028  
REF NO.: H47160-2041  
TECHNICAL PARAMETERS:



## FOOT BRAKE VALVE

HL NO.: HL81029  
REF NO.: H47160-3311  
TECHNICAL PARAMETERS:





### RELAY VALVE

HL NO.: HL82001  
REF NO.: H973 011 200 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 2: M22x1.5 VOSS  
PORT 41: M16x1.5 VOSS  
PORT 42: M16x1.5 VOSS



### RELAY VALVE

HL NO.: HL82002  
REF NO.: H973 011 205 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 41: M16x1.5  
PORT 42: M16x1.5  
COMMENTS: WITH SILENCER



### RELAY VALVE

HL NO.: HL82010  
REF NO.: H973 006 000 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M16x1.5  
PORT 4: M16x1.5



### RELAY VALVE

HL NO.: HL82010A  
REF NO.: H973 006 001 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5



### RELAY VALVE

HL NO.: HL82003/82003A  
REF NO.: H973 011 001 0  
H973 011 000 0(A)  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 2: M22x1.5 VOSS  
PORT 4: M16x1.5 VOSS



### RELAY VALVE

HL NO.: HL82004  
REF NO.: H973 011 004 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5  
COMMENT: WITH SILENCER



### RELAY VALVE

HL NO.: HL82011  
REF NO.: H973 006 003 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 2: M22x1.5  
PORT 4: M16x1.5



### RG-2 RELAY VALVE

HL NO.: HL82012  
REF NO.: HKN28500  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 2-NPT3/8  
DELIVERY PORTS: 2-NPT3/8  
CONTROL PORT: NPT1/4  
CONTROL POS: 90 DEG



### RELAY VALVE

HL NO.: HL82005  
REF NO.: H973 011 002 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5



### RELAY VALVE

HL NO.: HL82006  
REF NO.: H973 011 050 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5  
PORT 23: M16x1.5  
PORT 4: M16x1.5 VOSS



### RELAY VALVE

HL NO.: HL82013A  
REF NO.: H473 017 007 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 41: M22x1.5  
PORT 42: M22x1.5



### R6 RELAY VALVE

HL NO.: HL82014  
REF NO.: H279180  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 1-NPT3/8  
DELIVERY PORTS: 4-NPT3/8  
SERVICE PORT: 1-NPT1/4



### RELAY VALVE

HL NO.: HL82007  
REF NO.: H973 011 201 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23: M16x1.5  
PORT 41: M16x1.5 VOSS  
PORT 42: M16x1.5 VOSS



### RELAY VALVE

HL NO.: HL82008  
REF NO.: H973 011 206 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23: M22x1.5  
PORT 41: M16x1.5  
PORT 42: M16x1.5



### R-12H RELAY VALVE

HL NO.: HL82015  
REF NO.: H103009  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 2-NPT3/4  
DELIVERY PORTS: 2-NPT1/2  
SERVICE PORT: 1-NPT1/4



### R-14 RELAY VALVE

HL NO.: HL82017  
REF NO.: H103028  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 1-NPT1/2  
DELIVERY PORTS: 4-NPT1/2  
SERVICE PORT: 1-NPT1/4  
BALANCE PORT: 1-NPT1/8



### RELAY VALVE

HL NO.: HL82009  
REF NO.: H973 001 010 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M22x1.5



### RELAY VALVE

HL NO.: HL82009A  
REF NO.: H973 001 020 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M16x1.5  
PORT 4: M16x1.5



### R-14H RELAY VALVE

HL NO.: HL82018  
REF NO.: H103010  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 1-NPT3/4  
DELIVERY PORTS: 4-NPT1/2  
SERVICE PORT: 1-NPT1/4  
BALANCE PORT: 1-NPT1/8



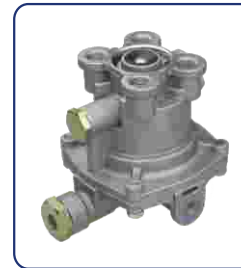
### R-12 RELAY VALVE

HL NO.: HL82019  
REF NO.: H102626  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 1-NPT1/2  
DELIVERY PORTS: 4-NPT1/2  
SERVICE PORT: 1-NPT1/4



### RELAY EMERGENCY VALVE

**HL NO.:** HL82020  
**REF NO.:** H281860  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: 1-NPT3/4  
SERVICE PORT: 1-NPT1/4  
EMERGENCY PORT: 1-NPT1/4  
DELIVERY PORTS: 4-NPT1/4



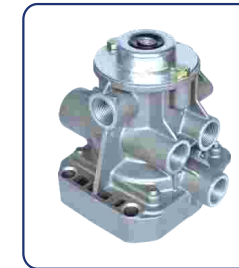
### RELAY EMERGENCY VALVE

**HL NO.:** HL82021  
**REF NO.:** H110205  
TECHNICAL PARAMETERS:  
SUPPLY PORT: 1-NPT3/4  
DELIVERY PORTS: 4-NPT3/8  
EMERGENCY PORTS: 2-NPT3/8  
SERVICE PORT: 1-NPT3/8  
CARCK PRESSURE: 4.5 PSI



### RELAY EMERGENCY VALVE

**HL NO.:** HL82028A  
**REF NO.:** H971 002 701 0  
TECHNICAL PARAMETERS:  
PORT 1-1: M16x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M16x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82029  
**REF NO.:** H971 002 307 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M22x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82022  
**REF NO.:** HKN30100  
TECHNICAL PARAMETERS:  
DELIVERY PORTS: 4-NPT1/4  
SUPPLY PORT: 1-NPT3/4  
SERVICE PORT: 1-NPT1/4  
EMERGENCY PORT: 1-NPT1/4



### RELAY EMERGENCY VALVE

**HL NO.:** HL82023  
**REF NO.:** H28600  
TECHNICAL PARAMETERS:  
SUPPLY PORT: 1-NPT3/8  
CONTROL PORT: 1-NPT1/4  
RESERVOIR PORT: 1-NPT3/4  
SERVICE BRAKE PORTS: 4-NPT3/8  
SPRING BRAKE PORTS: 2-NPT3/8



### ABS MODULATOR VALVE

**HL NO.:** HL82030  
**REF NO.:** H950 364 047  
TECHNICAL PARAMETERS:  
DEL=M16x1.5  
RES=M22x1.5  
CON=M16x1.5



### ABS MODULATOR VALVE

**HL NO.:** HL82031  
**REF NO.:** H472 195 031 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82024  
**REF NO.:** H971 002 152 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 1-2=M22x1.5  
PORT 4=M16x1.5  
PORT 2=4-M16x1.5+1-M22x1.5



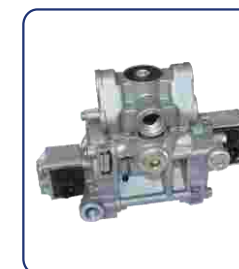
### RELAY EMERGENCY VALVE

**HL NO.:** HL82025  
**REF NO.:** H971 002 150 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M22x1.5



### ABS MODULATOR VALVE

**HL NO.:** HL82031A  
**REF NO.:** H472 195 020 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5



### ABS RELAY MODULATOR

**HL NO.:** HL82032  
**REF NO.:** H472 195 041 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5  
VOLTAGE: 24V



### RELAY EMERGENCY VALVE

**HL NO.:** HL82026  
**REF NO.:** H971 002 531 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M22x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82027  
**REF NO.:** H971 002 300 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M16x1.5



### RELAY VALVE

**HL NO.:** HL82033  
**REF NO.:** HAC574AXY  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 4: M16x1.5



### RELAY VALVE

**HL NO.:** HL82034  
**REF NO.:** H973 001 221 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 3: M16x1.5  
PORT 2: M22x1.5  
PORT 4: M22x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82027A  
**REF NO.:** H971 002 304 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M22x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82028  
**REF NO.:** H971 002 700 0  
TECHNICAL PARAMETERS:  
PORT 1-1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M16x1.5



### RELAY EMERGENCY VALVE

**HL NO.:** HL82035  
**REF NO.:** H971 002 570 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5  
PORT 1-2: M22x1.5  
PORT 4: M22x1.5



### RELAY VALVE

**HL NO.:** HL82036  
**REF NO.:** H480 202 004 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: 2-M22x1.5  
PORT 4: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83001/83001A  
REF NO.: H961 723 102 0  
H961 723 111 0(A)  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83002  
REF NO.: H961 723 108 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83011  
REF NO.: H961 722 152 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83012  
REF NO.: H961 722 151 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83003A  
REF NO.: H961 723 010 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 2: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83004/83004A  
REF NO.: H961 723 004 0  
H961 723 022 0(A)  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 2: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83013  
REF NO.: H961 722 252 0  
TECHNICAL PARAMETERS:  
PORT 11: M14x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83014  
REF NO.: H961 722 212 0  
TECHNICAL PARAMETERS:  
PORTS: SLIDE LOCK



## HAND BRAKE VALVE

HL NO.: HL83005  
REF NO.: H961 723 100 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83006/83006A  
REF NO.: H961 723 104 0  
H961 723 110 0(A)  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5 VOSS  
PORT 21: M16x1.5 VOSS  
PORT 22: M16x1.5 VOSS



## HAND BRAKE VALVE

HL NO.: HL83015  
REF NO.: HAPSA5890  
TECHNICAL PARAMETERS:  
PORT 1: NPT1/4  
PORT 2: NPT1/4



## HAND BRAKE VALVE

HL NO.: HL83016A  
REF NO.: HHB1142  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83007/83007A  
REF NO.: H961 723 118 0  
H961 723 112 0(A)  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5 VOSS  
PORT 21: M16x1.5 VOSS  
PORT 22: M16x1.5 VOSS



## HAND BRAKE VALVE

HL NO.: HL83008/83008A  
REF NO.: H961 722 150 0  
H961 722 156 0(A)  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83017  
REF NO.: H961 722 314 0  
PORT 11: M14x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83018  
REF NO.: H961 723 217 0  
PORT 1: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83009  
REF NO.: H961 722 160 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83010/83010A  
REF NO.: H961 722 258 0  
H961 722 269 0(A)  
TECHNICAL PARAMETERS:  
PORT 11: M14x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83019  
REF NO.: H961 701 100 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5  
PORT 3: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83019A  
REF NO.: H961 702 001 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 3: M14x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5





## HAND BRAKE VALVE

HL NO.: HL83020  
REF NO.: H961 701 105 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5  
PORT 3: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83020A  
REF NO.: H961 702 004 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 3: M14x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83029  
REF NO.: HDPM24A  
TECHNICAL PARAMETERS:  
PORT 1,12,21,23,3: M16\*1.5VOSS  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83030  
REF NO.: HDPM28A/DPM93D  
TECHNICAL PARAMETERS:  
PORT 1: M16\*1.5VOSS  
PORT 21: M16\*1.5VOSS  
PORT 22: M16\*1.5VOSS



## HAND BRAKE VALVE

HL NO.: HL83021  
REF NO.: HDPM95AAX  
PORT 1: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83022  
REF NO.: H961 722 266 0  
TECHNICAL PARAMETERS:  
PORT 11: M14x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83031  
REF NO.: H961 722 182 0  
TECHNICAL PARAMETERS:  
PORT 1: M14x1.5  
PORT 2: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83032  
REF NO.: H961 724 200 0  
TECHNICAL PARAMETERS:



## HAND BRAKE VALVE

HL NO.: HL83023  
REF NO.: HDPM66AK  
TECHNICAL PARAMETERS:  
PORT 11:  $\phi$  10  
PORT 21:  $\phi$  10  
PORT 22:  $\phi$  10



## HAND BRAKE VALVE

HL NO.: HL83024  
REF NO.: HDPM94AAX  
PORT 1: M16x1.5  
PORT 21: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83033  
REF NO.: H961 724 210 0  
TECHNICAL PARAMETERS:



## HAND BRAKE VALVE

HL NO.: HL83034  
REF NO.: H961 723 962 0  
TECHNICAL PARAMETERS:  
PORT 1: M16\*1.5  
PORT 21: M16\*1.5  
PORT 22: M16\*1.5



## HAND BRAKE VALVE

HL NO.: HL83025  
REF NO.: H961 723 125 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 3: M16x1.5  
PORT 21: M16x1.5  
PORT 22: M16x1.5



## HAND BRAKE VALVE

HL NO.: HL83026  
REF NO.: H961 722 264 0  
TECHNICAL PARAMETERS:  
PORT 11: M14x1.5  
PORT 12: M14x1.5  
PORT 21: M14x1.5  
PORT 23: M14x1.5



## HAND BRAKE VALVE

HL NO.: HL83027A/83027B  
REF NO.: H961 724 204 0  
H961 724 205 0  
TECHNICAL PARAMETERS:



## HAND BRAKE VALVE

HL NO.: HL83028  
REF NO.: H961 724 208 0  
TECHNICAL PARAMETERS:



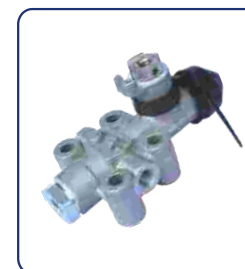
## LEVELING VALVE

HL NO.: HL84001  
REF NO.: H464 007 011 0  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



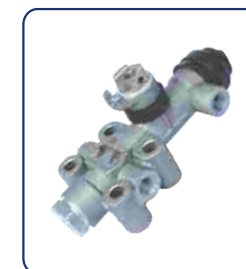
## LEVELING VALVE

HL NO.: HL84002  
REF NO.: H464 007 010 0  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



## LEVELING VALVE

HL NO.: HL84010  
REF NO.: HSV1294  
TECHNICAL PARAMETERS:  
PORT 11: M12x1.5  
PORT 21: M12x1.5



## LEVELING VALVE

HL NO.: HL84011  
REF NO.: HSV1295  
TECHNICAL PARAMETERS:  
PORT 4: M12x1.5  
PORT 11: M12x1.5  
PORT 21: M12x1.5



## LEVELING VALVE

HL NO.: HL84003  
REF NO.: H464 007 001 0  
TECHNICAL PARAMETERS:  
PORT 1:  $\phi$  6mm  
PORT 2:  $\phi$  6mm



## LEVELING VALVE

HL NO.: HL84004  
REF NO.: H464 007 002 0  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



## LEVELING VALVE

HL NO.: HL84012  
REF NO.: HSV1307  
TECHNICAL PARAMETERS:  
PORT 11: M12x1.5  
PORT 21: M12x1.5



## LEVELING VALVE

HL NO.: HL84013  
REF NO.: HSV1318  
TECHNICAL PARAMETERS:  
PORT 4: M12x1.5  
PORT 11: M12x1.5  
PORT 21: M12x1.5



## LEVELING VALVE

HL NO.: HL84005  
REF NO.: H464 007 003 0  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



## LEVELING VALVE

HL NO.: HL84006  
REF NO.: H464 006 000 0  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 3: M12x1.5  
PORT 21: M12x1.5  
PORT 22: M12x1.5



## LEVELING VALVE

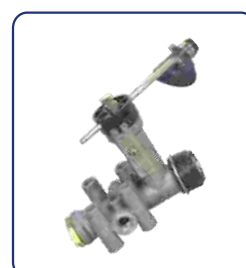
HL NO.: HL84014  
REF NO.: HSV1310  
TECHNICAL PARAMETERS:  
PORT 11,21: M12x1.5

HL NO.: HL84015  
REF NO.: HSV1361  
TECHNICAL PARAMETERS:  
PORT 11,21: M12x1.5



## LEVELING VALVE

HL NO.: HL84016  
REF NO.: HSV1219  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 3: M12x1.5  
PORT 21: M12x1.5  
PORT 22: M12x1.5



## LEVELING VALVE

HL NO.: HL84006A  
REF NO.: H464 006 002 0  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21: M12x1.5  
PORT 22: M12x1.5



## LEVELING VALVE

HL NO.: HL84007  
REF NO.: H464 002 330 0  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21: M12x1.5  
PORT 22: M12x1.5



## LEVELING VALVE

HL NO.: HL84017/84017A  
REF NO.: H050 000 500 1  
H050 000 500 2(A)  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 2: M12x1.5  
PORT 3: M12x1.5



## LEVELING VALVE

HL NO.: HL84018/84018A  
REF NO.: H050 000 500 6  
H050 000 500 7(A)  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 2: M12x1.5  
PORT 3: M12x1.5



## LEVELING VALVE

HL NO.: HL84008  
REF NO.: H464 006 100 0  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21: M12x1.5  
PORT 22: M12x1.5  
PORT 12: M16x1.5  
PORT 23: M16x1.5



## LEVELING VALVE

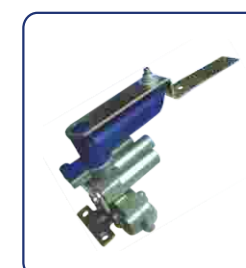
HL NO.: HL84009  
REF NO.: HSV1280  
TECHNICAL PARAMETERS:  
PORT 11: M12x1.5  
PORT 21: M12x1.5  
PORT 12: M16x1.5  
PORT 23: M16x1.5



## LEVELING VALVE

HL NO.: HL84019  
REF NO.: HKN27000  
TECHNICAL PARAMETERS:  
PORTS: ALL NPT1/4

HL NO.: HL84019A  
REF NO.: HSV1470  
TECHNICAL PARAMETERS:  
PORTS: ALL M12x1.5



## LEVELING VALVE

HL NO.: HL84020  
REF NO.: H90054007  
TECHNICAL PARAMETERS:  
PORTS: ALL NPT1/8



### LEVELING VALVE

HL NO.: HL84021/84021A  
REF NO.: H441 050 008 0  
H441 050 010 0(A)



### LEVELING VALVE

HL NO.: HL84022/84022A  
REF NO.: H441 050 011 0  
H441 050 012 0(A)



### LEVELING VALVE

HL NO.: HL84031  
REF NO.: H4410502010/4410502020  
H1889797  
TECHNICAL PARAMETERS:



### LEVELING VALVE

HL NO.: HL84032  
REF NO.: H4410502000/4410502030  
HA0075425918  
TECHNICAL PARAMETERS:



### LEVELING VALVE

HL NO.: HL84023  
REF NO.: H441 050 013 0



### LEVELING VALVE

HL NO.: HL84024  
REF NO.: H441 050 006 0



### LEVELING VALVE

HL NO.: HL84033  
REF NO.: H1435680  
TECHNICAL PARAMETERS:



### LEVELING VALVE

HL NO.: HL84025/84025A  
REF NO.: H441 050 101 0  
H441 050 100 0(A)



### LEVELING VALVE

HL NO.: HL84026  
REF NO.: H441 050 007 0



### LEVELING VALVE

HL NO.: HL84027/84027A  
REF NO.: H441 050 122 0  
H441 050 123 0(A)



### LEVELING VALVE

HL NO.: HL84028/84028A  
REF NO.: H441 050 120 0  
H441 050 121 0(A)



### LEVELING VALVE

HL NO.: HL84029  
REF NO.: HK013741N00



### LEVELING VALVE

HL NO.: HL84030  
REF NO.: H21585711





### TRAILER CONTROL VALVE

**HL NO.:** HL85001  
**REF NO.:** H973 009 001 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42: M22×1.5VOSS  
 PORT 43: M16×1.5 VOSS  
 PREDOMINANCE: 0.2BAR

**HL NO.:** HL85001A  
**REF NO.:** H973 009 002 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42,43: M16×1.5  
 PREDOMINANCE: 0.2BAR

**HL NO.:** HL85001B  
**REF NO.:** H973 009 004 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42: M22×1.5VOSS  
 PORT 43: M16×1.5 VOSS  
 PREDOMINANCE:

**HL NO.:** HL85001C  
**REF NO.:** H973 009 005 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42: M22×1.5VOSS  
 PORT 43: M16×1.5 VOSS  
 PREDOMINANCE: 0.5BAR

**HL NO.:** HL85001D  
**REF NO.:** H973 009 006 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42: M22×1.5VOSS  
 PORT 43: M16×1.5 VOSS

**HL NO.:** HL85001E  
**REF NO.:** H973 009 100 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42,43: M16×1.5  
 PREDOMINANCE: 0.2BAR

**HL NO.:** HL85001F  
**REF NO.:** H973 009 101 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22,41,42,43: M16×1.5



### TRAILER CONTROL VALVE

**HL NO.:** HL85005  
**REF NO.:** H973 002 007 0  
 TECHNICAL PARAMETERS:  
 PORTS 1,2: M22x1.5  
 PORTS 41,42,43: M22x1.5  
 PREDOMINANCE: 0.6BAR  
 PREDOMINANCE: 0BAR-ADJUSTABLE

**HL NO.:** HL85005A  
**REF NO.:** H973 002 402 0  
 TECHNICAL PARAMETERS:  
 PORTS 1,2: M16x1.5  
 PORTS 41,42,43: M16x1.5  
 PREDOMINANCE: 0BAR  
 PREDOMINANCE: 0BAR-FIXED



### TRAILER CONTROL VALVE

**HL NO.:** HL85002  
**REF NO.:** H973 009 010 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22: M16x1.5  
 PORT 41,42,43: M16x1.5  
 PREDOMINANCE: 0.4BAR  
 COMMENT: WITH SILENCER



### TRAILER CONTROL VALVE

**HL NO.:** HL85003  
**REF NO.:** H973 009 300 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22: M22x1.5 VOSS  
 PORT 41,42: M22x1.5 VOSS  
 PORT 43: M16x1.5 VOSS  
 PREDOMINANCE: 0.2BAR  
 COMMENT: WITH SILENCER



### TRAILER CONTROL VALVE

**HL NO.:** HL85004  
**REF NO.:** H973 002 521 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22: M16x1.5  
 PORT 41,42,43: M16x1.5  
 PREDOMINANCE: 0.2  
 PREDOMINANCE ADJUSTABLE: YES

**HL NO.:** HL85004A  
**REF NO.:** H973 002 501 0  
 TECHNICAL PARAMETERS:  
 PORT 11,12,22: M16x1.5  
 PORT 41,42,43: M16x1.5  
 PREDOMINANCE: 0.2  
 PREDOMINANCE ADJUSTABLE: YES

**HL NO.:** HL85004B  
**REF NO.:** H973 002 520 0  
 TECHNICAL PARAMETERS:  
 PORTS: 11,12,22: M16x1.5  
 PORTS: 41,42,43: M16x1.5  
 PREDOMINANCE: 0BAR-FIXED



### TRAILER CONTROL VALVE

**HL NO.:** HL85006A  
**REF NO.:** HAC597A  
 TECHNICAL PARAMETERS:  
 PORT 11,21,22: M16\*1.5  
 PORT 41,42,43: M16\*1.5



### TRAILER CONTROL VALVE

**HL NO.:** HL85006B  
**REF NO.:** HAC598A  
 TECHNICAL PARAMETERS:  
 PORT 11,21,22,41,42: M22\*1.5VOSS  
 PORT 43: M16\*1.5VOSS



### TRAILER CONTROL VALVE

**HL NO.:** HL85007  
**REF NO.:** HAC596A  
 TECHNICAL PARAMETERS:  
 PORT 11,21,22,41: M22\*1.5VOSS  
 PORT 42,43: M16\*1.5VOSS



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86001  
**REF NO.:** H934 702 250 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR

**HL NO.:**HL86001A  
**ORIGINAL NO.:** 934 702 260 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 21,22,23,24: M22x1.5 VOSS  
OPEN PRESS 21,22,23,24: 7.0BAR

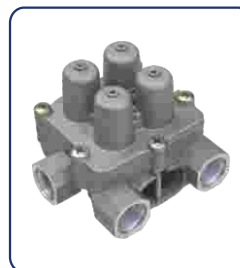


## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86003A  
**REF NO.:** HAE4158(9347010410)  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR

**HL NO.:**HL86003B  
**REF NO.:** HAE4168(9347021000)  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 6.5BAR

**HL NO.:**HL86003C  
**REF NO.:** HAE4170(9347001410)  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86007  
**REF NO.:** H934 714 403 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 21,22,23,24: M22x1.5 VOSS  
OPEN PRESS:  
21,22,24: 6.9BAR 23:7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86008  
**REF NO.:** H934 702 300 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS: 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86002  
**REF NO.:** H934 702 210 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86004  
**REF NO.:** HAE4404  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M22x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86005  
**REF NO.:** HAE4162  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 11,12,21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86006  
**REF NO.:** H934 714 010 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 5.9BAR

**HL NO.:**HL86006A  
**REF NO.:** H934 714 013 0  
TECHNICAL PARAMETERS:  
PORT 1: NPT1/2  
PORT 21,22,23,24: NPT3/8  
OPEN PRESS 21,22,23,24: 6.8BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86009  
**REF NO.:** H934 714 151 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
21,22,24: 6.5BAR 23:7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86010  
**REF NO.:** H934 713 004 0  
TECHNICAL PARAMETERS:  
PORT 1: NPT1/2  
PORT 21,22,23,24: NPT3/8  
OPEN PRESS: 21,22,23,24: 7.3-0.3BAR

**HL NO.:**HL86010A  
**REF NO.:** H934 713 019 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
21,22: 7.5BAR, 23,24: 8.0-0.3BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86012  
**REF NO.:** HAE4613  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86014  
**REF NO.:** HAE4440  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: Φ9mm  
OPEN PRESS:  
21,22,23: 7.0BAR 24:6.5BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86016  
**REF NO.:** HAE4604  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 11,12,21,22,23,24=M16x1.5  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86018  
**REF NO.:** H934 701 040 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 21,22,23: M16x1.5  
OPEN PRESS:  
21,22,24: 6.9BAR 23:7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86011  
**REF NO.:** HAE4609  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 21,22,23,24: M22x1.5 VOSS  
OPEN PRESS 21,22,23,24: 7.0BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86013  
**REF NO.:** H934 714 740 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 11,12,21,22,23,24: M16x1.5  
OPEN PRESS:  
21,22: 6.3BAR 23,24: 5.8BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86015  
**REF NO.:** HAE4605  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22,23,24: Φ9mm  
OPEN PRESS:  
21,22,24: 7.0BAR 23:7.3BAR



## 4 CIRCUIT PROTECTION VALVE

**HL NO.:**HL86017  
**REF NO.:** H934 700 040 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 21,22: M16x1.5  
OPEN PRESS 21,22:6.5BAR



## MULTI-CIRCUIT PROTECTION VALVE

**HL NO.:**HL86019  
**REF NO.:** H934 705 002 0  
TECHNICAL PARAMETERS:  
PORT 1: FLANGE  
PORT 21,22: M22x1.5 VOSS  
PORT 23,24: M22x1.5 VOSS  
PORT 25,26: M22x1.5 VOSS



### MULTI-CIRCUIT PROTECTION VALVE

**HL NO.:** HL86019A  
**REF NO.:** H934 705 005 0  
**TECHNICAL PARAMETERS:**  
 PORT 1: FLANGE  
 PORT 21-26: M22x1.5 VOSS  
 PORT 27,28: M12x1.5  
**COMMENT:** WITH SENSOR



### 4 CIRCUIT PROTECTION VALVE

**HL NO.:** HL86020  
**REF NO.:** HAE4800  
**TECHNICAL PARAMETERS:**  
 PORT 1: M22x1.5 VOSS  
 PORT 21-26: M22x1.5 VOSS  
**OPEN PRESS:**  
 21,22,24: 8.7-9.0BAR  
 23,24: 7.2-7.5BAR



### SOLENOID VALVE

**HL NO.:** HL87001  
**REF NO.:** H1457275  
**H1379772**  
**TECHNICAL PARAMETERS:**  
 PORT 1,21,22: M14x1.5  
 PORT 4: M10x1



### SOLENOID VALVE

**HL NO.:** HL87002  
**REF NO.:** H1457276  
**H1379776**  
**TECHNICAL PARAMETERS:**  
 PORT 1,21,22: M14x1.5  
 PORT 4: M10x1



### MULTI-CIRCUIT PROTECTION VALVE

**HL NO.:** HL86021  
**REF NO.:** HAE4528  
**TECHNICAL PARAMETERS:**  
 PORT 1: M16x1.5  
 PORT 21-26: M22x1.5 VOSS  
**OPEN PRESS:**  
 21,22,24: 7.0-7.3BAR  
 23: 7.2-7.5BAR



### MULTI-CIRCUIT PROTECTION VALVE

**HL NO.:** HL86022  
**REF NO.:** H932 510 9582  
**TECHNICAL PARAMETERS:**



### SOLENOID VALVE

**HL NO.:** HL87003  
**REF NO.:** H1488083  
**H1334037**  
**H1423566**  
**TECHNICAL PARAMETERS:**  
 PORT 1,12,21,22: M10x1



### SOLENOID MODULATOR VALVE

**HL NO.:** HL87004  
**REF NO.:** H472 195 016 0  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS  
**HL NO.:** HL87004A  
**REF NO.:** H472 195 018 0  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS



### MULTI-WAY CONNECTOR

**HL NO.:** HL67008  
**REF NO.:**  
**TECHNICAL PARAMETERS:**  
 PORT: M22x1.5



### MULTI-WAY CONNECTOR

**HL NO.:** HL67009  
**REF NO.:**  
**TECHNICAL PARAMETERS:**  
 PORT: M22x1.5



### SOLENOID VALVE

**HL NO.:** HL87007  
**REF NO.:** H427 017 482 0  
**TECHNICAL PARAMETERS:**  
 PORT 11,12: M12x1.5  
 PORT 21,22,23,24: M12x1.5  
 PORT 5: M12x1.5  
 DC 12V

**HL NO.:** HL87007A  
**REF NO.:** H427 017 480 0  
**TECHNICAL PARAMETERS:**  
 PORT 11,12: M12x1.5  
 PORT 21,22,23,24: M12x1.5  
 PORT 5: M12x1.5  
 DC 24V



### SOLENOID VALVE

**HL NO.:** HL87006  
**REF NO.:** H472 195 009 0  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS  
**HL NO.:** HL87006A  
**REF NO.:** H472 195 011 0  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS

**HL NO.:** HL87006B  
**REF NO.:** H472 195 015 0  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS

**HL NO.:** HL87006C  
**REF NO.:** HBR9150  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS

**HL NO.:** HL87006D  
**REF NO.:** HBR9151  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS

**HL NO.:** HL87006E  
**REF NO.:** HBR9152  
**TECHNICAL PARAMETERS:**  
 PORT 1,2: M22x1.5 VOSS



### SENSOR

**HL NO.:** HL87008  
**REF NO.:** H441 043 002 1  
**TECHNICAL PARAMETERS:**  
 VOLTAGE: 24V

**HL NO.:** HL87008A  
**REF NO.:** H441 043 501 1  
**TECHNICAL PARAMETERS:**  
 VOLTAGE: 5V





## SOLENOID VALVE

HL NO.: HL87009A  
REF NO.: H5004341  
TECHNICAL PARAMETERS:  
HEAT: 12V

HL NO.: HL87009B  
REF NO.: H5004342  
TECHNICAL PARAMETERS:  
HEAT: 24V



## SOLENOID VALVE

HL NO.: HL87010  
REF NO.: H228600  
TECHNICAL PARAMETERS:  
PORTS:



## SOLENOID VALVE

HL NO.: HL87019  
REF NO.: H1653070  
TECHNICAL PARAMETERS:  
PORTS: M10x1



## SOLENOID VALVE

HL NO.: HL87020  
REF NO.: H20590252  
TECHNICAL PARAMETERS:  
PORTS: M10x1



## SOLENOID VALVE

HL NO.: HL87011  
REF NO.: H463 084 031 0  
TECHNICAL PARAMETERS:  
PORT 11,12: M16x1.5  
PORT 21,22: M16x1.5



## SOLENOID VALVE

HL NO.: HL87012  
REF NO.: H472 070 639 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M12x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87021  
REF NO.: H3192384  
TECHNICAL PARAMETERS:  
PORTS: M10x1



## SOLENOID VALVE

HL NO.: HL87022  
REF NO.: H1421324  
TECHNICAL PARAMETERS:  
PORTS: M12x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87013  
REF NO.: H472 170 600 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M12x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87014  
REF NO.: H472 170 606 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M12x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87023  
REF NO.: H1078316  
TECHNICAL PARAMETERS:  
PORTS: M12x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87024  
REF NO.: H472 880 030 0  
TECHNICAL PARAMETERS:  
PORTS : M22x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87015  
REF NO.: H1521248  
TECHNICAL PARAMETERS:  
PORTS: NPT1/8



## SOLENOID VALVE

HL NO.: HL87016  
REF NO.: H20775173  
TECHNICAL PARAMETERS:  
PORTS: M10x1



## SOLENOID VALVE

HL NO.: HL87025  
REF NO.: H472 900 105 0  
TECHNICAL PARAMETERS:  
PORTS : M22x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87026  
REF NO.: H472 900 113 0  
TECHNICAL PARAMETERS:  
PORTS : M22x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87017  
REF NO.: H1521247  
TECHNICAL PARAMETERS:  
PORTS: M10x1



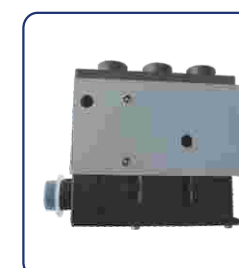
## SOLENOID VALVE

HL NO.: HL87018  
REF NO.: H1521249  
TECHNICAL PARAMETERS:  
PORTS: M10x1



## SOLENOID VALVE

HL NO.: HL87027  
REF NO.: H472 900 053 0  
TECHNICAL PARAMETERS:  
PORTS : M22x1.5  
DC 24V



## SOLENOID VALVE

HL NO.: HL87028A/87028B  
REF NO.: H3944716(A)  
H3944717(B)  
TECHNICAL PARAMETERS:  
PORT 1,21,22: M22x1.5  
DC 24V



### SOLENOID VALVE

HL NO.: HL87029  
REF NO.: H21083660  
TECHNICAL PARAMETERS:  
PORT 11,21,22,23: M16\*1.5



### SOLENOID VALVE

HL NO.: HL87030  
REF NO.: H4728900010/H4728900020  
H4728900030/H4728900200  
H4728900220  
TECHNICAL PARAMETERS:  
PORT 11,12,23: M22\*1.5V



### SOLENOID VALVE

HL NO.: HL87039  
REF NO.: H21031448  
TECHNICAL PARAMETERS:



### SOLENOID VALVE

HL NO.: HL87040  
REF NO.: HA5410560304/A5410500370  
TECHNICAL PARAMETERS:



### SOLENOID VALVE

HL NO.: HL87031  
REF NO.: H472 890 030 0  
H472 890 031 0  
H472 890 032 0  
H472 890 041 0  
TECHNICAL PARAMETERS:  
PORT 11,12: M22\*1.5



### SOLENOID VALVE

HL NO.: HL87032  
REF NO.: H472 890 050 0  
TECHNICAL PARAMETERS:  
PORT 11,12: M22\*1.5



### SOLENOID VALVE

HL NO.: HL87041  
REF NO.: H51259020096/51259020115  
H51259020130  
TECHNICAL PARAMETERS:



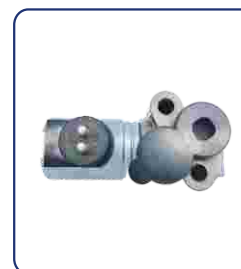
### SOLENOID VALVE

HL NO.: HL87042  
REF NO.: H51259020129/51259020104  
TECHNICAL PARAMETERS:



### SOLENOID VALVE

HL NO.: HL87033  
REF NO.: H81325500009/1670254  
TECHNICAL PARAMETERS:



### SOLENOID VALVE

HL NO.: HL87034  
REF NO.: H0002571934  
TECHNICAL PARAMETERS:  
PORT 11,12,23: M22\*1.5V



### SOLENOID VALVE

HL NO.: HL87043  
REF NO.: H51259020131  
TECHNICAL PARAMETERS:



### SOLENOID VALVE

HL NO.: HL87035  
REF NO.: H22327063/22327072  
TECHNICAL PARAMETERS:  
PORT 11,21,22,23: M16\*1.5



### SOLENOID VALVE

HL NO.: HL87036  
REF NO.: H21965253  
TECHNICAL PARAMETERS:



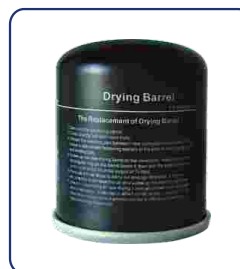
### SOLENOID VALVE

HL NO.: HL87037  
REF NO.: H1493771  
TECHNICAL PARAMETERS:



### SOLENOID VALVE

HL NO.: HL87038  
REF NO.: H9452600557/9472600757  
TECHNICAL PARAMETERS:



## AIR DRYER CARTRIDGE

HL NO.: HL51001  
REF NO.: H432 410 020 2  
TECHNICAL PARAMETERS:  
MOUNTING DIMENSION: M39x1.5



## AIR DRYER CARTRIDGE

HL NO.: HL51002  
REF NO.: H432 410 2262  
TECHNICAL PARAMETERS:  
MOUNTING DIMENSION: G 1-1/4



## AIR DRYER CARTRIDGE

HL NO.: HL51003  
REF NO.: H1391510  
TECHNICAL PARAMETERS:  
PORT : M41x1.5



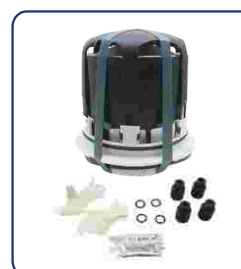
## AD-9 AIR DRYER CARTRIDGE

HL NO.: HL51004  
REF NO.: H107794  
TECHNICAL PARAMETERS:  
SPECIFICATION: 5/8-11UNC



## AIR DRYER CARTRIDGE

HL NO.: HL51005  
REF NO.: H78964  
TECHNICAL PARAMETERS:  
PORT :



## AIR DRYER CARTRIDGE

HL NO.: HL51006  
REF NO.: H22223804/21412848  
TECHNICAL PARAMETERS:  
PORT : M41x1.5



## AIR DRYER SEAT

HL NO.: HL52001  
REF NO.: H932 400 005 0  
TECHNICAL PARAMETERS:  
PORT 1,21: M22x1.5  
PORT 22,23: M16x1.5  
PORT 12: M12x1.5



## AIR DRYER SEAT

HL NO.: HL52002  
REF NO.: H432 410 600 2  
TECHNICAL PARAMETERS:  
HEAT: 24V  
CONN: M27x1  
PORT 1,21: M22x1.5  
PORT 22: M12x1.5



## AIR DRYER

HL NO.: HL53001  
REF NO.: H432 410 000 0  
TECHNICAL PARAMETERS:  
HEAT: 24V  
PORT 1,21: M22x1.5  
PORT 22: M12x1.5



## AIR DRYER

HL NO.: HL53001A  
REF NO.: H432 410 004 0  
TECHNICAL PARAMETERS:  
HEAT: 24V  
PORT 1,21: M22x1.5  
PORT 22: M12x1.5  
PORT 4/23: M12x1.5



## AIR DRYER

HL NO.: HL53002  
REF NO.: H932 400 002 0  
TECHNICAL PARAMETERS:  
PORT 1,21,24: M22x1.5  
PORT 22: M16x1.5  
PORT 12: M12x1.5



## AIR DRYER

HL NO.: HL53003  
REF NO.: H932 500 035 0  
TECHNICAL PARAMETERS:  
PORT 21,22,23,24: M16x1.5



## AIR DRYER

HL NO.: HL53004  
REF NO.: H932 500 003 0  
TECHNICAL PARAMETERS:  
PORT 21,22: M22x1.5 VOSS  
PORT 23,24: M22x1.5 VOSS  
PORT 25,26: M22x1.5 VOSS



## AIR DRYER

HL NO.: HL53005  
REF NO.: H932 500 007 0  
TECHNICAL PARAMETERS:  
PORT 11: M22x1.5  
PORT 12: M12x1.5  
PORT 21,22: M22x1.5 VOSS  
PORT 23,24: M22x1.5 VOSS  
PORT 25,26: M22x1.5 VOSS



## AIR DRYER

HL NO.: HL53006  
REF NO.: H432 410 081 0  
TECHNICAL PARAMETERS:  
HEAT: 24V  
PORT 1,21: M22x1.5  
PORT 4,22: M12x1.5



## AIR DRYER

HL NO.: HL53007  
REF NO.: H432 425 101 0  
TECHNICAL PARAMETERS:  
HEAT: 24V  
PORT 1,21: M22x1.5 VOSS  
PORT 4: M12x1.5  
PORT 12: M12x1.5



## AIR DRYER

HL NO.: HL53008  
REF NO.: HLA8211  
HLA8212  
TECHNICAL PARAMETERS:  
HEAT: 24V  
PORT 1: M22x1.5 VOSS  
PORT 21: M22x1.5 VOSS  
PORT 22: M16x1.5 VOSS



## AIR DRYER

HL NO.: HL53009  
REF NO.: H432 413 001 0  
TECHNICAL PARAMETERS:  
HEAT: 24V  
PORT 1,2: NPT1/2  
PORT 4: NPT1/4



## AD-9 AIR DRYER

HL NO.: HL53010A  
REF NO.: H065224  
TECHNICAL PARAMETERS:  
HEAT: 24V  
HL NO.: HL53010B  
REF NO.: H065225  
TECHNICAL PARAMETERS:  
HEAT: 12V



## AIR DRYER

HL NO.: HL53011  
REF NO.: H932 510 956 2  
TECHNICAL PARAMETERS:





### AIR DRYER

**HL NO.:** HL53012  
**REF NO.:** HLA8130  
**TECHNICAL PARAMETERS:**  
 HEAT: 24V  
 PORT 1,12: M22x1.5  
 PORT 21: M16x1.5  
 PORT 23: M16x1.5 VOSS  
 PORT 24: M22x1.5 VOSS



### AIR DRYER

**HL NO.:** HL53013  
**REF NO.:** HZB4578  
**TECHNICAL PARAMETERS:**  
 HEAT: 24V  
 PORT 1,12: M22x1.5  
 PORT 21: M16x1.5  
 PORT 23: M16x1.5 VOSS  
 PORT 24: M22x1.5 VOSS



### CONSEP CONDENSER

**HL NO.:** HL56001  
**REF NO.:** H41210029  
**TECHNICAL PARAMETERS:**  
 PORTS: NPT1/2 VOLTAGE: 24V

**HL NO.:** HL56001A  
**REF NO.:** H41210026  
**TECHNICAL PARAMETERS:**  
 PORTS: NPT1/2 VOLTAGE: 12V

**HL NO.:** HL56001B  
**REF NO.:** H71369  
**TECHNICAL PARAMETERS:**  
 PORTS: M22x1.5 VOLTAGE: 24V



### AIR DRYER

**HL NO.:** HL53014  
**REF NO.:** H932 510 0040  
**TECHNICAL PARAMETERS:**



### AIR DRYER

**HL NO.:** HL53016  
**REF NO.:** HLA9010  
**TECHNICAL PARAMETERS:**  
 PORT 11,24: M22\*1.5,  
 PORT 12: M12\*1.5  
 PORT 22:M16\*1.5  
 PORT25 M10\*1



### SLIENCER

**HL NO.:** HL54001  
**REF NO.:** H432 407 060 0  
**TECHNICAL PARAMETERS:**  
 PRESSURE: 13BAR  
 DIAMETER: φ 68



### SLIENCER

**HL NO.:** HL54002  
**REF NO.:** H432 407 070 0  
**TECHNICAL PARAMETERS:**  
 PRESSURE: 11BAR  
 DIAMETER: φ 69



### SLIENCER

**HL NO.:** HL54003  
**REF NO.:** H432 407 012 0  
**TECHNICAL PARAMETERS:**  
 PRESSURE: 18.5BAR  
 DIAMETER: φ 87



### HEATER

**HL NO.:** HL55001  
**REF NO.:** H894 260 049 2  
**TECHNICAL PARAMETERS:**  
 SPECIFICATION: 24 VOLT-100WATT



### HEATER

**HL NO.:** HL55002  
**REF NO.:** H894 260 040 2  
**TECHNICAL PARAMETERS:**  
 SPECIFICATION: 12 VOLT-100WATT



### HEATER

**HL NO.:** HL55003  
**REF NO.:** H894 260 046 2  
**TECHNICAL PARAMETERS:**  
 SPECIFICATION: 12 VOLT-100WATT



**UNLOADER VALVE**

HL NO.: HL88001  
REF NO.: H975 303 473 0  
TECHNICAL PARAMETERS:  
CUT OUT: 8.1BAR  
SAFTY: 12BAR  
PORT 1,21: M22x1.5  
PORT 22: M12x1.5



**UNLOADER VALVE**

HL NO.: HL88002  
REF NO.: H975 303 474 0  
TECHNICAL PARAMETERS:  
CUT OUT: 8.1BAR  
SAFTY: 12BAR  
PORT 1,21: M22x1.5  
PORT 4,23: M12x1.5



**UNLOADER VALVE**

HL NO.: HL88011  
REF NO.: H048 103 922 1  
TECHNICAL PARAMETERS:  
CUT OUT: 8.1BAR  
PORT 1,21: M22x1.5  
PORT 22: M12x1.5



**PRESSURE LIMITING VALVE**

HL NO.: HL61001  
REF NO.: H475 010 300 0  
TECHNICAL PARAMETERS:  
DELIVERY PRESSURE: 8.5BAR  
PORT 1: M22x1.5  
PORT 2: M22x1.5



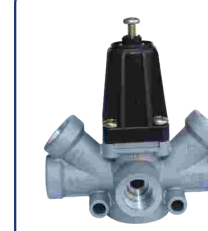
**UNLOADER VALVE**

HL NO.: HL88003  
REF NO.: H975 303 464 0  
TECHNICAL PARAMETERS:  
CUT OUT: 8.1BAR  
SAFTY: 12BAR  
PORT 1,21: M22x1.5



**UNLOADER VALVE**

HL NO.: HL88004  
REF NO.: H975 303 085 0  
TECHNICAL PARAMETERS:  
CUT OUT: 9.5BAR  
PORT 1,21: M22x1.5  
PORT 4,23: M12x1.5



**PRESSURE LIMITING VALVE**

HL NO.: HL61002  
REF NO.: H475 010 400 0  
TECHNICAL PARAMETERS:  
PORT 11,12: M22x1.5 VOSS  
PORT 21,22,23: M22x1.5 VOSS



**PRESSURE LIMITING VALVE**

HL NO.: HL61003  
REF NO.: H475 015 031 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 2: M16x1.5



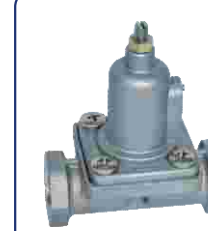
**UNLOADER VALVE**

HL NO.: HL88005  
REF NO.: H975 300 110 0  
TECHNICAL PARAMETERS:  
CUT OUT: 8.1BAR  
PORT 1,21: M22x1.5



**UNLOADER VALVE**

HL NO.: HL88006  
REF NO.: H975 300 014 0  
TECHNICAL PARAMETERS:  
CUT OUT: 8.1BAR  
PORT 1,21: M22x1.5



**PRESSURE LIMITING VALVE**

HL NO.: HL61004  
REF NO.: H434 100 124 0  
TECHNICAL PARAMETERS:  
OPENING PRESSURE: 5.5BAR  
PORT 1: M22x1.5  
PORT 2: M22x1.5



**PRESSURE LIMITING VALVE**

HL NO.: HL61005  
REF NO.: H048 100 901 7  
TECHNICAL PARAMETERS:  
COMMEN: 3.5-6.0 BAR  
PORT 1: M16x1.5  
PORT 2: M16x1.5



**UNLOADER VALVE**

HL NO.: HL88007  
REF NO.: H100-3512010  
TECHNICAL PARAMETERS:  
PORT 1,2: M22x1.5



**D2 GOVERNOR VALVE**

HL NO.: HL88008  
REF NO.: H275491  
TECHNICAL PARAMETERS:  
PORT 1,2,3: NPT1/8



**PRESSURE LIMITING VALVE**

HL NO.: HL61005A  
REF NO.: H048 100 902 6  
TECHNICAL PARAMETERS:  
COMMEN: 3.5-6.0 BAR  
PORT 1: M22x1.5  
PORT 2: M22x1.5



**PRESSURE REGULATOR**

HL NO.: HL61006  
REF NO.: HA4740  
TECHNICAL PARAMETERS:  
SUPPLY PORTS: NPT3/8  
DELIVERY PORTS: NPT1/8



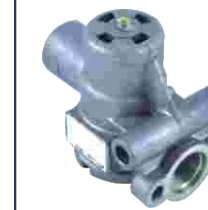
**D2 GOVERNOR VALVE**

HL NO.: HL88009  
REF NO.: HMC808718  
TECHNICAL PARAMETERS:  
CUT-OUT PRESSURE: 8.2BAR  
RES=NPT1/8  
UNL=NPT1/4



**UNLOADER VALVE**

HL NO.: HL88010  
REF NO.: HDR3200  
TECHNICAL PARAMETERS:  
PORT 1,2: M22x1.5



**PRESSURE LIMITING VALVE**

HL NO.: HL61007  
REF NO.: HAC157C  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 VOSS  
PORT 2: M22x1.5 VOSS



**PRESSURE LIMITING VALVE**

HL NO.: HL61008  
REF NO.: HDR3500  
TECHNICAL PARAMETERS:  
PORT 1,21: M22\*1.5  
PORT 22,23: M12\*1.5



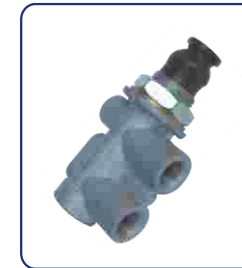
### PRESSURE LIMITING VALVE

HL NO.: HL61009  
REF NO.: H434 300 000 0  
TECHNICAL PARAMETERS:  
PORT 1,4: M12x1.5



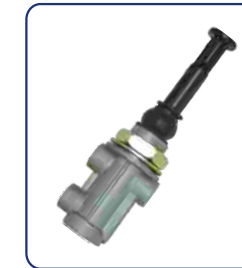
### PRESSURE LIMITING VALVE

HL NO.: HL61010  
REF NO.: H975 009 001 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M16x1.5



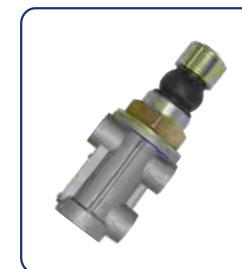
### BUTTON VALVE

HL NO.: HL62001  
REF NO.: H463 013 200 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 21: M16x1.5  
PORT 3: M12x1.5



### BUTTON VALVE

HL NO.: HL62002  
REF NO.: H463 013 114 0  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 2: M12x1.5  
PORT 3: M12x1.5



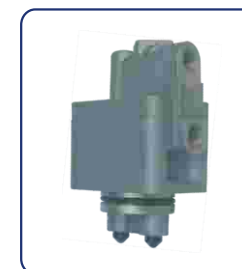
### BUTTON VALVE

HL NO.: HL62003  
REF NO.: H463 013 112 0  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 2: M12x1.5  
PORT 3: M12x1.5



### GEARBOX VALVE

HL NO.: HL63001  
REF NO.: HSV3360  
TECHNICAL PARAMETERS:  
PORTS: M12x1.5



### GEARBOX VALVE

HL NO.: HL63002  
REF NO.: HSV3367  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



### GEARBOX VALVE

HL NO.: HL63003  
REF NO.: H500 185 971 8  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21: M14x1.5  
PORT 22: M14x1.5



### GEARBOX VALVE

HL NO.: HL63004  
REF NO.: H1319557  
TECHNICAL PARAMETERS:  
PORT 1: NPT1/8  
PORT 2: NPT1/8



### GEARBOX VALVE

HL NO.: HL63005  
REF NO.: HWG2203250001  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5 VOSS  
PORT 21: M14x1.5  
PORT 22: M14x1.5



### GEARBOX VALVE

HL NO.: HL63006  
REF NO.: HA-5000  
TECHNICAL PARAMETERS:  
PORTS: NPT1/8



### GEARBOX VALVE

HL NO.: HL63007  
REF NO.: HSV3302  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 2: M12x1.5





## GEARBOX VALVE

HL NO.: HL63008  
REF NO.: HSV3371  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21: M12x1.5  
PORT 22: M12x1.5



## GEARBOX VALVE

HL NO.: HL63009  
REF NO.: H1653156  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



## 2/3 DIRECTION CONTROL VALVE

HL NO.: HL64001  
REF NO.: H463 036 000 0  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



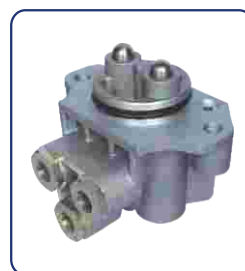
## DIRECTION CONTROL VALVE

HL NO.: HL64002  
REF NO.: H541L9101  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1  
PORT 4: M10x1



## GEARBOX VALVE

HL NO.: HL63010  
REF NO.: H81521706156  
TECHNICAL PARAMETERS:



## GEARBOX VALVE

HL NO.: HL63011  
REF NO.: H0022606157  
TECHNICAL PARAMETERS:  
PORT 1: Φ9 VOSS  
PORT 21: Φ9 VOSS  
PORT 22: Φ9 VOSS



## MV-3 CONTROL VALVE

HL NO.: HL64003  
REF NO.: H800516  
TECHNICAL PARAMETERS:  
PRIMARY SUPPLY PORT: NPT1/4  
SECONDARY SUPPLY PORT: NPT1/4  
TRAILER DELIVERY PORT: NPT1/4  
TRACTOR DELIVERY PORT: NPT1/4  
EXHAUST PORT: NPT1/4



## PP-1 CONTROL VALVE

HL NO.: HL64004  
REF NO.: H276566  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT1/8  
DELIVERY PORT: NPT1/8  
EXHAUST PORT: NPT1/8



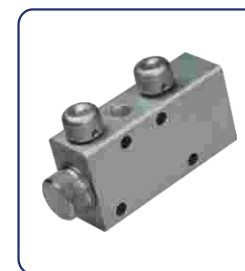
## GEARBOX VALVE

HL NO.: HL63012A  
REF NO.: H075 013 202 4  
TECHNICAL PARAMETERS:  
Φ100



## GEARBOX VALVE

HL NO.: HL63013  
REF NO.: H1669324  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 2: M10x1



## DIRECTION CONTROL VALVE

HL NO.: HL64005  
REF NO.: H0012602057  
TECHNICAL PARAMETERS:  
PORT 1,2,4: NPT1/8  
PORT 41: NPT1/8



## 2/3 DIRECTION CONTROL VALVE

HL NO.: HL64006  
REF NO.: H463 022 020 0  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



## GEARBOX VALVE

HL NO.: HL63014  
REF NO.: H1669297  
TECHNICAL PARAMETERS:  
SUP=NPT1/4  
DEL=NPT1/4



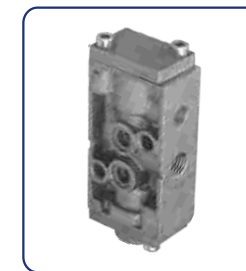
## GEARBOX VALVE

HL NO.: HL63015  
REF NO.: H8172628  
TECHNICAL PARAMETERS:



## 5/2 DIRECTION CONTROL VALVE

HL NO.: HL64007A/HL64007B  
REF NO.: H463 063 003 0(A)  
H463 063 002 0(B)  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 41: M10x1



## 2/3 DIRECTION CONTROL VALVE

HL NO.: HL64008  
REF NO.: HZF050128630  
TECHNICAL PARAMETERS:  
PORT 1: M12x1.5  
PORT 21,22: 2-Φ12  
PORT 4: M10x1



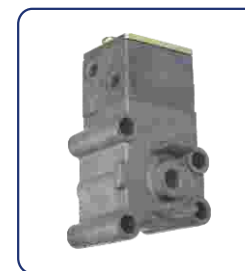
## GEARBOX VALVE

HL NO.: HL63016  
REF NO.: H20783875/20557162/  
20772366/1521697/39379  
TECHNICAL PARAMETERS:  
PORT 1: M10\*1  
PORT 12: M16\*1.5,  
PORT 21,22: 4\*Φ10



## GEARBOX VALVE

HL NO.: HL63017  
REF NO.: H0501209434  
TECHNICAL PARAMETERS:



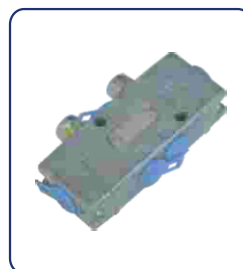
## DIRECTION CONTROL VALVE

HL NO.: HL64009  
REF NO.: H50000673571  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 21: M10x1  
PORT 22: M10x1



## DIRECTION CONTROL VALVE

HL NO.: HL64010  
REF NO.: H463 036 005 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 2: M16x1.5  
PORT 3: M10x1



### DIRECTION CONTROL VALVE

**HL NO.:** HL64011  
**REF NO.:** H5710031040  
TECHNICAL PARAMETERS:  
PORT 1: M10x1  
PORT 2: M10x1



### DOUBLE CHECK VALVE

**HL NO.:** HL65001  
**REF NO.:** H434 208 000 0  
TECHNICAL PARAMETERS:  
PORT 2,11,12: M22x1.5  
  
**HL NO.:** HL65002  
**REF NO.:** H434 208 009 0  
TECHNICAL PARAMETERS:  
PORT 2,11,12: M16x1.5



### SINGLE CHECK VALVE

**HL NO.:** HL65003  
**REF NO.:** H44510-1090  
TECHNICAL PARAMETERS:  
PORT 1: NPT3/8  
PORT 2: NPT3/8



### SINGLE CHECK VALVE

**HL NO.:** HL65004  
**REF NO.:** H44510-1190  
TECHNICAL PARAMETERS:  
PORT 1: NPT3/8  
PORT 2: NPT3/8



### SINGLE CHECK VALVE

**HL NO.:** HL65005  
**REF NO.:** H434 014 000 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5



### SINGLE CHECK VALVE

**HL NO.:** HL65006  
**REF NO.:** HKN23010  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT3/8  
DELIVERY PORT: NPT3/8



### QUICK RELEASE VALVE

**HL NO.:** HL66001  
**REF NO.:** H229813  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT3/8  
DELIVERY PORT: 2-NPT1/4

**HL NO.:** HL66001A  
**REF NO.:** H229844  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT1/2  
DELIVERY PORT: 2-NPT1/4

**HL NO.:** HL66001B  
**REF NO.:** H229859  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT3/8  
DELIVERY PORT: 2-NPT3/8

**HL NO.:** HL66001C  
**REF NO.:** H229860  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT1/2  
DELIVERY PORT: 2-NPT3/8



### QUICK RELEASE VALVE

**HL NO.:** HL66003  
**REF NO.:** H45151-90004  
TECHNICAL PARAMETERS:  
SUPPLY PORT 1: NPT1/2  
DELIVERY PORT 2: 2-NPT3/8



### QUICK RELEASE VALVE

**HL NO.:** HL66004  
**REF NO.:** H973 500 051 0  
TECHNICAL PARAMETERS:  
SUPPLY PORT11,12: M22x1.5  
DELIVERY PORT2: 4-M16x1.5  
EXHAUST PORT: M22x1.5



### QUICK RELEASE VALVE

**HL NO.:** HL66002  
**REF NO.:** H973 500 000 0  
TECHNICAL PARAMETERS:  
SUPPLY PORT 1: M22x1.5  
DELIVERY PORT 2: 2-M22x1.5  
EXHAUST PORT 3: M22x1.5

**HL NO.:** HL66002A  
**REF NO.:** H973 500 006 0  
TECHNICAL PARAMETERS:  
SUPPLY PORT 1: M16x1.5  
DELIVERY PORT 2: 2-M16x1.5  
EXHAUST PORT 3: M16x1.5

**HL NO.:** HL66002B  
**REF NO.:** H973 500 003 0  
TECHNICAL PARAMETERS:  
SUPPLY PORT 1: NPT3/8  
DELIVERY PORT 2: 2-NPT3/8  
EXHAUST PORT 3: NPT3/8

**HL NO.:** HL66002C  
**REF NO.:** H973 500 014 0  
TECHNICAL PARAMETERS:  
SUPPLY PORT 1: NPT1/2  
DELIVERY PORT 2: 2-NPT3/8  
EXHAUST PORT 3: NPT3/8



### QUICK RELEASE VALVE

**HL NO.:** HL66008  
**REF NO.:** H973 500 028 0  
TECHNICAL PARAMETERS:  
PORT 1,21,22: M22x1.5 VOSS,  
PORT 23: M16x1.5 VOSS



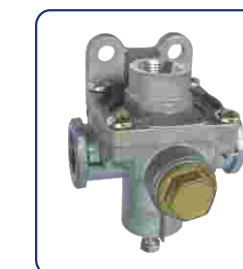
### RELEASE VALVE

**HL NO.:** HL66101  
**REF NO.:** H352 045 001  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 11: M16x1.5  
PORT 21: M16x1.5



### QUICK RELEASE VALVE

**HL NO.:** HL66005  
**REF NO.:** H973 500 038 0  
TECHNICAL PARAMETERS:  
PORT 1,3: M22x1.5 VOSS,  
PORT 21,22,23,24: M16x1.5 VOSS



### QUICK RELEASE VALVE

**HL NO.:** HL66006  
**REF NO.:** H975 001 000 0  
TECHNICAL PARAMETERS:  
SUPPLY PORT: M22x1.5  
DELIVERY PORT: M22x1.5



### QUICK RELEASE VALVE

**HL NO.:** HL66007  
**REF NO.:** HKN32010  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT1/2  
DELIVERY PORT: NPT3/8



### QUICK RELEASE VALVE

**HL NO.:** HL66009  
**REF NO.:** H289714  
TECHNICAL PARAMETERS:  
SUPPLY PORT: NPT1/4  
DELIVERY PORT: 2-NPT3/8  
EXHAUST PORT: NPT1/4



### RELEASE VALVE

**HL NO.:** HL66102A/661012B  
**REF NO.:** H963 001 050 0(A)  
H963 001 051 0(B)  
TECHNICAL PARAMETERS:  
PORT 1-1: M16x1.5  
PORT 1-2: M16x1.5  
PORT 21: M16x1.5  
PORT 21: M16x1.5



## RELEASE VALVE

HL NO.: HL66103  
REF NO.: H971 002 900 0  
TECHNICAL PARAMETERS:  
PORT 1-1: M16x1.5  
PORT 1-2: M16x1.5  
PORT 4: M16x1.5  
PORT 21: M16x1.5  
PORT 21: M16x1.5



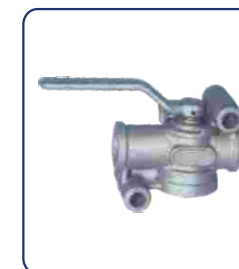
## RELEASE VALVE

HL NO.: HL66104A  
REF NO.: H963 001 012 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5 PORT 2: Φ21.5  
  
HL NO.: HL66104B  
REF NO.: H963 001 013 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5 PORT 2: Φ21.5



## ROTARY SLIDE VALVE

HL NO.: HL67003  
REF NO.: H463 032 020 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5  
PORT 21,22,23,24: M12x1.5



## CUT OFF VALVE

HL NO.: HL67004  
REF NO.: H452 002 107 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5



## LINE FIL VALVE

HL NO.: HL67001  
ORIGINAL NO.: 432 500 020 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5



## LOAD SENSING VALVE

HL NO.: HL67002  
REF NO.: H475 710 000 0  
TECHNICAL PARAMETERS:  
PORT 1,2,4: M16x1.5

HL NO.: HL67002A  
REF NO.: H475 710 008 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M22x1.5 VOSS  
PORT 4: M16x1.5 VOSS



## CUT OFF VALVE

HL NO.: HL67005  
REF NO.: H475 604 011 0  
TECHNICAL PARAMETERS:  
PORT 1: M22x1.5  
PORT 2: M22x1.5



## MANUAL DRAIN VALVE

HL NO.: HL67006  
REF NO.: H934 300 003 0  
TECHNICAL PARAMETERS:  
PORT : M22x1.5



## LOAD SENSING VALVE

HL NO.: HL67010  
REF NO.: H475 712 004 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M16x1.5  
PORT 1-2: M22x1.5  
PORT 2(SIDE): M22x1.5  
PORT 2(UNDER): M16x1.5  
COMMENTS: INLET PORT FILTERS

HL NO.: HL67002B  
REF NO.: H475 710 011 0  
TECHNICAL PARAMETERS:  
PORT 1,2,4: M16x1.5

HL NO.: HL67002C  
REF NO.: H475 710 128 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M22x1.5 VOSS  
PORT 4: M16x1.5 VOSS

HL NO.: HL67002D  
REF NO.: H475 710 121 0  
TECHNICAL PARAMETERS:  
PORT 1,2,4: M16x1.5

HL NO.: HL67002E  
REF NO.: H475 710 151 0  
TECHNICAL PARAMETERS:  
PORT 1,2: M22x1.5 VOSS  
PORT 4: M16x1.5 VOSS



## SAFETY VALVE

HL NO.: HL67007  
REF NO.: H2005105  
TECHNICAL PARAMETERS:  
PORT: M22x1.5



## CONTROL CYINDER

HL NO.: HL67012A  
REF NO.: H000 072 011 2  
ROD END: M6  
PORTS: M12x1.5(6L)

HL NO.: HL67012B  
REF NO.: H000 072 151 2  
ROD END: M8  
PORTS: M12x1.5(6L)



## LOAD SENSING VALVE

HL NO.: HL67011  
REF NO.: H475 715 500 0  
TECHNICAL PARAMETERS:  
PORT 1/4,2,1-2: M22x1.5  
PORT 1,2: M16x1.5  
PORT 41,42: M12x1.5

## LOAD SENSING VALVE

HL NO.: HL67016  
REF NO.: H475 714 500 0  
TECHNICAL PARAMETERS:  
PORT 1/4: M22\*1.5  
PORT 2: 2\*M16\*1.5  
PORT 41/42: 2\*M12\*1.5



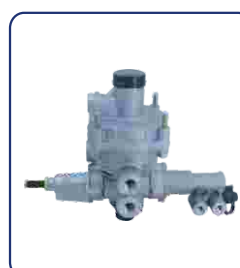
## CONTROL CYINDER

HL NO.: HL67013  
REF NO.: H0004304926  
TECHNICAL PARAMETERS:  
ROD END: M8  
PORTS: M12x1.5(6L)



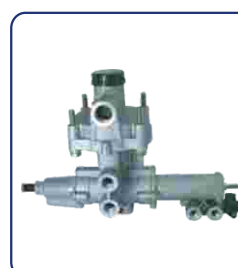
## MANUAL DRAIN VALVE

HL NO.: HL67014  
REF NO.: H12105  
TECHNICAL PARAMETERS:  
PORT : NPT1/4



## LOAD SENSING VALVE

HL NO.: HL67015  
REF NO.: H475 711 075 0  
TECHNICAL PARAMETERS:  
PORT 1: M22\*1.5  
PORT 2: 2\*M16\*1.5  
PORT 4: M16\*1.5  
PORT 41/42: 2\*M12\*1.5



## LOAD SENSING VALVE

HL NO.: HL67016  
REF NO.: H475 714 500 0  
TECHNICAL PARAMETERS:  
PORT 1/4: M22\*1.5  
PORT 2: 2\*M16\*1.5  
PORT 41/42: 2\*M12\*1.5



## POWER SHIFT VALVE

HL NO.: HL72001  
REF NO.: H43431-76000  
TECHNICAL PARAMETERS:  
PORTS: CONTROL-RC1/4  
INSTALLATION PLATE HOLE: Φ10.5



## POWER SHIFT VALVE

HL NO.: HL72002  
REF NO.: H670046  
TECHNICAL PARAMETERS:  
PORTS: CONTROL-RC1/4  
INSTALLATION PLATE HOLE: Φ10.5





### POWER SHIFT VALVE

HL NO.: HL72003  
REF NO.: HX3099-350  
TECHNICAL PARAMETERS:  
PORTS: CONTROL-RC1/4  
INSTALLATION PLATE HOLE:  $\phi 10.5$



### POWER SHIFT VALVE

HL NO.: HL72004  
REF NO.: H422 010 014 0  
TECHNICAL PARAMETERS:  
PORT 41,42: M12x1.5



### POWER SHIFT VALVE

HL NO.: HL72005  
REF NO.: H422 010 010 0  
TECHNICAL PARAMETERS:  
PORT 41,42: M12x1.5



### ENGINE SOLENOID VALVE

HL NO.: HL89001  
REF NO.: H20913287/24426572  
TECHNICAL PARAMETERS:



### AIR VALVE

HL NO.: HL89002  
REF NO.: H21991157/21707054  
TECHNICAL PARAMETERS:



### AIR VALVE

HL NO.: HL89003  
REF NO.: H21991154  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68002  
REF NO.: HA-6915  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68003  
REF NO.: HA-6909  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68004  
REF NO.: HA-6913  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68005  
REF NO.: HA-6918  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68006  
REF NO.: H463 069 007 0  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68007  
REF NO.: H20488052  
TECHNICAL PARAMETERS:  
COMMENT: 6 SPEED+R+C  
  
HL NO.: HL68007A  
REF NO.: H20488063  
TECHNICAL PARAMETERS:  
COMMENT: 8 SPEED+R



### GEARSHIFT HANDLE

HL NO.: HL68008  
REF NO.: H81.97010.6011  
TECHNICAL PARAMETERS:  
COMMENT: 8 SPEED of PORTS: 3

HL NO.: HL68008A  
REF NO.: H81.97010.6010  
TECHNICAL PARAMETERS:  
COMMENT: 8 SPEED of PORTS: 2



### GEARSHIFT HANDLE

HL NO.: HL68009  
REF NO.: H463 055 050 0  
TECHNICAL PARAMETERS:  
COMMENT: 8 SPEED+R

HL NO.: HL68009A  
REF NO.: H463 049 050 0  
TECHNICAL PARAMETERS:  
COMMENT: 6 SPEED+R+C



### GEARSHIFT HANDLE

HL NO.: HL68010  
REF NO.: H463 085 000 0  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68011  
REF NO.: H501 054 574 3  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68012  
REF NO.: H500 045 091 2  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68013  
REF NO.: H501 063 925 0  
TECHNICAL PARAMETERS:



| HL NO.: | TYPE    | STROKE | PORT THREAD | BOLT THREAD | BOLT CENTRE | PUSH ROD THREAD | PUSH ROD LENGTH |
|---------|---------|--------|-------------|-------------|-------------|-----------------|-----------------|
| HL91001 | T3030DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91003 | T2430DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91004 | T2424DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91005 | T2024DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91006 | T1624DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | yourself        |



### GEARSHIFT HANDLE

HL NO.: HL68014  
REF NO.: H501 054 574 1  
TECHNICAL PARAMETERS:



### GEARSHIFT HANDLE

HL NO.: HL68015  
REF NO.: H1727377  
TECHNICAL PARAMETERS:  
COMMENT: 6 SPEED+R+C



| HL NO.:  | TYPE    | STROKE | PORT THREAD | BOLT THREAD | BOLT CENTRE | PUSH ROD THREAD | PUSH ROD LENGTH |
|----------|---------|--------|-------------|-------------|-------------|-----------------|-----------------|
| HL91001A | T3030DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |
| HL91003A | T2430DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |
| HL91004A | T2424DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |
| HL91005A | T2024DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |
| HL91006A | T1624DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 76.2        | 5/8"-18UNF      | yourself        |



### GEARSHIFT HANDLE

HL NO.: HL68016  
REF NO.: H1727378  
TECHNICAL PARAMETERS:  
COMMENT: 6 SPEED+R



### GEARSHIFT HANDLE

HL NO.: HL68017  
REF NO.: H1441235  
TECHNICAL PARAMETERS:  
COMMENT: 8 SPEED+R+C



SEALED

| HL NO.:  | TYPE    | STROKE | PORT THREAD | BOLT THREAD | BOLT CENTRE | PUSH ROD THREAD | PUSH ROD LENGTH |
|----------|---------|--------|-------------|-------------|-------------|-----------------|-----------------|
| HL91002  | T3030DD | 64/64  | 3/8"NPT     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91002A | T3030DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |
| HL91002B | T2430DD | 64/64  | 3/8"NPT     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91002C | T2430DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |
| HL91002D | T2424DD | 64/64  | 3/8"NPT     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL91002E | T2424DD | 64/64  | 3/8"NPT     | 5/8"-11UNC  | 120.7       | 5/8"-18UNF      | yourself        |



A

B

### GEARSHIFT HANDLE

HL NO.: HL68018A  
REF NO.: H1377386  
TECHNICAL PARAMETERS:  
COMMENT: 6 SPEED+C+RH/RL

HL NO.: HL68018B  
REF NO.: H1482997  
TECHNICAL PARAMETERS:  
COMMENT: 6 SPEED++C+RH/RL



### GEARSHIFT HANDLE

HL NO.: HL68019  
REF NO.: H1369975  
TECHNICAL PARAMETERS:  
COMMENT: 8 SPEED+R+C+RH/RL



| HL NO.: | TYPE    | STROKE | PORT THREAD | BOLT THREAD | BOLT CENTRE | PUSH ROD THREAD | PUSH ROD LENGTH |
|---------|---------|--------|-------------|-------------|-------------|-----------------|-----------------|
| HL92001 | T3030DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | ----            | 15mm            |
| HL92002 | T2430DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | ----            | 15mm            |
| HL92003 | T2424DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | ----            | 15mm            |
| HL92004 | T2024DD | 64/64  | M16×1.5     | M16×1.5     | 120.7       | ----            | 15mm            |
| HL92005 | T1624DD | 57/57  | M16×1.5     | M16×1.5     | 120.7       | ----            | 15mm            |



### GEARSHIFT HANDLE

HL NO.: HL68020  
REF NO.: H384970  
TECHNICAL PARAMETERS:  
COMMENT: 10 SPEED+R



### GEARSHIFT HANDLE

HL NO.: HL68021  
REF NO.: H463 069 003 0  
TECHNICAL PARAMETERS:



| HL NO.: | TYPE    | STROKE | PORT THREAD | BOLT THREAD | BOLT CENTRE | PUSH ROD THREAD | PUSH ROD LENGTH |
|---------|---------|--------|-------------|-------------|-------------|-----------------|-----------------|
| HL93001 | T3030DP | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | 285mm           |
| HL93002 | T3030DP | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | yourself        |
| HL93003 | T2424DP | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | 285mm           |
| HL93004 | T2424DP | 64/64  | M22×1.5     | M16×1.5     | 120.7       | M16×1.5         | 285mm           |
| HL93005 | T2430DP | 64/64  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | 285mm           |
| HL93006 | T1624DP | 57/57  | M16×1.5     | M16×1.5     | 120.7       | M16×1.5         | 285mm           |



| HL NO.: | TYPE     | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|---------|----------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL94005 | T3030DP  | 64/64  | M16×1.5        | M16×1.5        | 120.7          | ----               | 15mm               |
| HL94001 | T2430DP  | 64/64  | M16×1.5        | M16×1.5        | 120.7          | ----               | 15mm               |
| HL94002 | T2424DCP | 64/64  | M16×1.5        | M16×1.5        | 120.7          | ----               | 15mm               |
| HL94003 | T2024DP  | 57/57  | M16×1.5        | M16×1.5        | 120.7          | ----               | 15mm               |
| HL94004 | T1624DP  | 57/57  | M16×1.5        | M16×1.5        | 120.7          | ----               | 15mm               |



KAMAZ



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| HL NO.: | TYPE    | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|---------|---------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL95001 | T2424DP | 57/57  | M16×1.5        | M16×1.5        | 120.7          | M16×1.5            | 110mm              |
| HL95002 | T2020DP | 57/57  | M16×1.5        | M16×1.5        | 120.7          | M16×1.5            | 110mm              |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
| HL95003 | T3024DP | 64/64  | M16×1.5        | 4-M16×1.5      | 120.7          | M16×1.5            | 390mm              |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |
| HL95004 | T2024DP | 45/45  | 2-1/4"NPT      | 4-M16×1.5      | 120.7          | M18×1.5            | 375mm              |
|         |         |        |                |                |                |                    |                    |
|         |         |        |                |                |                |                    |                    |



| HL NO.: | TYPE | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|---------|------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL96001 | T30  | 64     | 3/8"NPT        | 5/8"-11UNC     | 120.7          | 5/8"-18UNF         | yourself           |
| HL96002 | T24  | 64     | 3/8"NPT        | 5/8"-11UNC     | 120.7          | 5/8"-18UNF         | yourself           |
| HL96003 | T20  | 64     | 3/8"NPT        | 5/8"-11UNC     | 120.7          | 5/8"-18UNF         | yourself           |
| HL96004 | T16  | 57     | 3/8"NPT        | 7/16-14UNC     | 76             | 1/2"-20UNF         | yourself           |
| HL96005 | T12  | 45     | 3/8"NPT        | 7/16-14UNC     | 76             | 1/2"-20UNF         | yourself           |
| HL96006 | T9   | 45     | 3/8"NPT        | 7/16-14UNC     | 76             | 1/2"-20UNF         | yourself           |



| HL NO.:  | TYPE | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|----------|------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL96001A | T30  | 64     | 3/8"NPT        | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96002A | T24  | 64     | 3/8"NPT        | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96003A | T20  | 64     | 3/8"NPT        | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96004A | T16  | 57     | 3/8"NPT        | M16×1.5        | 120.7          | M16×1.5            | yourself           |



| HL NO.:  | TYPE | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|----------|------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL96001B | T30  | 64     | M16×1.5        | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96002B | T24  | 64     | M16×1.5        | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96003B | T20  | 57     | M16×1.5        | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96004B | T16  | 57     | M16×1.5        | M16×1.5        | 120.7          | M16×1.5            | yourself           |



| HL NO.:  | TYPE | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|----------|------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL96001C | T30L | 64     | 2-M16×1.5      | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96002C | T24L | 64     | 2-M16×1.5      | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96003C | T20L | 64     | 2-M16×1.5      | M16×1.5        | 120.7          | M16×1.5            | yourself           |
| HL96004C | T16L | 64     | 2-M16×1.5      | M16×1.5        | 120.7          | M16×1.5            | yourself           |



| HL NO.: | TYPE | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|---------|------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL97001 | T30  | 64     | 2-M16×1.5      | M16×1.5        | 120.7          | ----               | 15mm               |
| HL97002 | T24  | 64     | 2-M16×1.5      | M16×1.5        | 120.7          | ----               | 15mm               |
| HL97003 | T20  | 57     | 2-M16×1.5      | M16×1.5        | 120.7          | ----               | 15mm               |
| HL97004 | T16  | 57     | 2-M16×1.5      | M16×1.5        | 120.7          | ----               | 15mm               |



| HL NO.:  | TYPE     | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|----------|----------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL98001  | T12-6200 | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |
| HL98001A | T9-6200  | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |
| HL98001B | T12-1600 | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |



| HL NO.:  | TYPE | STROKE | PORT<br>THREAD | BOLT<br>THREAD | BOLT<br>CENTRE | PUSH ROD<br>THREAD | PUSH ROD<br>LENGTH |
|----------|------|--------|----------------|----------------|----------------|--------------------|--------------------|
| HL98002  | T12  | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |
| HL98002A | T9   | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |
| HL98002B | T16  | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |
| HL98002C | T24  | 52     | M16×1.5        | 1 3/4-12UNF    | ----           | ----               | ----               |





### SPRING BRAKE CHAMBER

HL NO.: HL94006  
REF NO.: HBY9303DCP  
TYPE:



### SPRING BRAKE CHAMBER

HL NO.: HL94007  
REF NO.: HK028253/KZ1254  
TYPE:



### BRAKE CHAMBER COVER

HL NO.: HL99005  
TYPE: T30/30DD



### BRAKE CHAMBER CLAMP

HL NO.: HL99006  
TYPE:



### SPRING BRAKE CHAMBER

HL NO.: HL94008  
REF NO.: HBT5800  
TYPE: T20/27DD



### SPRING BRAKE CHAMBER

HL NO.: HL94009  
REF NO.: HBS8500  
TYPE: T24/30DP



### SPRING BRAKE CHAMBER

HL NO.: HL94010  
REF NO.: BS9510  
TYPE: T24/14



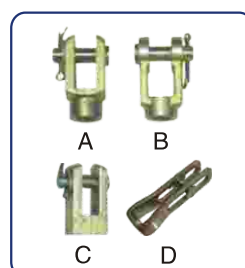
### SPRING BRAKE CHAMBER

HL NO.: HL94011  
REF NO.: H4231039000  
TYPE: T12



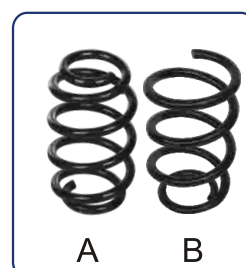
### DIAPHRAGM

HL NO.: HL99001  
TYPE: T36/T30/T24/T20/T16/T12



### BRAKE CHAMBER FORK

HL NO.: HL99002  
TYPE:



### SPRING

HL NO.: HL99003A  
TYPE: T30/30DD,T24/24DD

HL NO.: HL99003B  
TYPE: T30/30DP,T24/24DP



### BRAKE CHAMBER MIDDLE BODY

HL NO.: HL99004  
TYPE:



## CLUTCH SERVO

HL NO.: HL71001  
REF NO.: H970 051 102 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 67mm



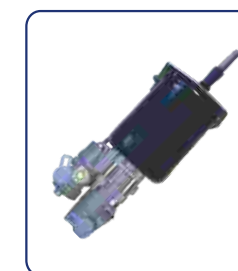
## CLUTCH SERVO

HL NO.: HL71002  
REF NO.: H970 051 107 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 58.5mm



## CLUTCH SERVO

HL NO.: HL71010  
REF NO.: H970 051 151 0  
TECHNICAL PARAMETERS:  
DIA: 85mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 65mm



## CLUTCH SERVO

HL NO.: HL71011  
REF NO.: H970 051 157 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



## CLUTCH SERVO

HL NO.: HL71003  
REF NO.: H970 051 111 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



## CLUTCH SERVO

HL NO.: HL71004  
REF NO.: H970 051 114 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 67mm



## CLUTCH SERVO

HL NO.: HL71012  
REF NO.: H970 051 158 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 75mm



## CLUTCH SERVO

HL NO.: HL71013  
REF NO.: H970 051 159 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 75mm



## CLUTCH SERVO

HL NO.: HL71004A  
REF NO.: H970 051 126 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 67mm



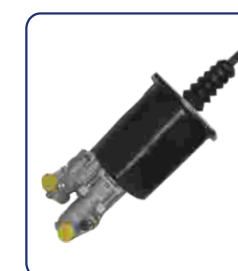
## CLUTCH SERVO

HL NO.: HL71005  
REF NO.: H970 051 124 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 58mm



## CLUTCH SERVO

HL NO.: HL71014  
REF NO.: H970 051 164 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



## CLUTCH SERVO

HL NO.: HL71015  
REF NO.: H970 051 176 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



## CLUTCH SERVO

HL NO.: HL71006  
REF NO.: H970 051 128 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 58.5mm



## CLUTCH SERVO

HL NO.: HL71007  
REF NO.: H970 051 131 0  
TECHNICAL PARAMETERS:  
DIA: 85mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 72mm



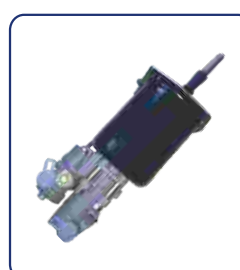
## CLUTCH SERVO

HL NO.: HL71016  
REF NO.: H970 051 190 0  
TECHNICAL PARAMETERS:  
DIA: 85mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 60mm



## CLUTCH SERVO

HL NO.: HL71017  
REF NO.: H970 051 192 0  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 58.5mm



## CLUTCH SERVO

HL NO.: HL71008/71008A  
REF NO.: H970 051 132 0  
H970 051 170 0(A)  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



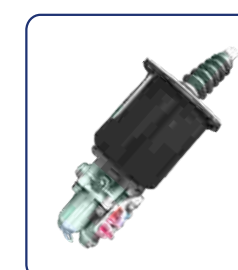
## CLUTCH SERVO

HL NO.: HL71009  
REF NO.: H970 051 137 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



## CLUTCH SERVO

HL NO.: HL71018  
REF NO.: H970 051 209 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 58.5mm



## CLUTCH SERVO

HL NO.: HL71018A  
REF NO.: H970 051 218 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 23mm



### CLUTCH SERVO

HL NO.: HL71019  
REF NO.: H970 051 402 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 25.2mm



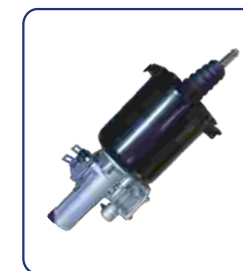
### CLUTCH SERVO

HL NO.: HL71020  
REF NO.: H970 051 406 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M22 × 1.5 VOSS  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71027/71027A  
REF NO.: H970 510 446 0  
H970 051 412 0(A)  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M22 × 1.5 VOSS  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71028  
REF NO.: H970 051 455 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 25.2mm



### CLUTCH SERVO

HL NO.: HL71021  
REF NO.: H970 051 423 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71021A  
REF NO.: H970 051 407 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71030  
REF NO.: HAPGA1605/P  
TECHNICAL PARAMETERS:  
DIA: 63.5mm  
AIR: 1/8-27 NPTF  
HYD: 7/16-20 NPTF  
STROKE:



### CLUTCH SERVO

HL NO.: HL71031  
REF NO.: HAPGA16XX  
TECHNICAL PARAMETERS:  
DIA: 63.5mm  
AIR: 1/8-27 NPTF  
HYD: 7/16-20 NPTF  
STROKE:



### CLUTCH SERVO

HL NO.: HL71022/71022A  
REF NO.: H970 051 431 0  
H970 051 405 0(A)  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL84023  
REF NO.: H970 051 435 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71032  
REF NO.: HAPGA1610/4  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD:  
STROKE: 67mm



### CLUTCH SERVO

HL NO.: HL71033/71033A  
REF NO.: HVG3200  
HVG3204(A)  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 84mm



### CLUTCH SERVO

HL NO.: HL84024  
REF NO.: H970 051 436 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71025  
REF NO.: H970 051 437 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M22 × 1.5 VOSS  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71034  
REF NO.: HVG3208  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 84mm



### CLUTCH SERVO

HL NO.: HL71035/71035A  
REF NO.: HVG3213  
HVG3229(A)  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 84mm



### CLUTCH SERVO

HL NO.: HL71025A  
REF NO.: H970 051 307 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M22 × 1.5 VOSS  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71026  
REF NO.: H970 051 444 0  
TECHNICAL PARAMETERS:  
DIA: 75mm  
AIR: M22 × 1.5 VOSS  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71036  
REF NO.: HVG3261  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M22 × 1.5  
HYD: M14 × 1.5  
STROKE: 84mm



### CLUTCH SERVO

HL NO.: HL71037  
REF NO.: HVG3285  
TECHNICAL PARAMETERS:  
DIA: 70mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 40mm





### CLUTCH SERVO

HL NO.: HL71038  
REF NO.: HVG3361  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 70mm



### CLUTCH SERVO

HL NO.: HL71039  
REF NO.: H63566103  
TECHNICAL PARAMETERS:  
DIA: 63.5mm  
AIR: 3/8-24 UNF  
HYD: 7/16-20 UNF  
STROKE:



### CLUTCH SERVO

HL NO.: HL71048  
REF NO.: H627052AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M22 × 1.5 VOSS  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71049  
REF NO.: H627612AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 68mm



### CLUTCH SERVO

HL NO.: HL71040  
REF NO.: H627479AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 58mm



### CLUTCH SERVO

HL NO.: HL71041  
REF NO.: H622107AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 50mm



### CLUTCH SERVO

HL NO.: HL71050/71050A  
REF NO.: H628275AM  
H628259AM(A)  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71051/71051A  
REF NO.: H628276AM  
H628277AM(A)  
TECHNICAL PARAMETERS:  
DIA: 80mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71042  
REF NO.: H622190AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 70mm



### CLUTCH SERVO

HL NO.: HL71043  
REF NO.: H622199AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 70mm



### CLUTCH SERVO

HL NO.: HL71052A  
REF NO.: H628494AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71053  
REF NO.: H642-03080  
TECHNICAL PARAMETERS:  
DIA: 70mm  
AIR: M14 × 1.5  
HYD: M12 × 1.5  
STROKE: 35mm



### CLUTCH SERVO

HL NO.: HL71044  
REF NO.: H625359AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 27.5mm



### CLUTCH SERVO

HL NO.: HL71045  
REF NO.: H625586AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 85mm



### CLUTCH SERVO

HL NO.: HL71054  
REF NO.: H642-03502  
TECHNICAL PARAMETERS:  
DIA: 90mm  
AIR: M14 × 1.5  
HYD: M12 × 1.5  
STROKE: 35mm



### CLUTCH SERVO

HL NO.: HL71055  
REF NO.: H642-03505  
TECHNICAL PARAMETERS:  
DIA: 105mm  
AIR: M14 × 1.5  
HYD: M12 × 1.5  
STROKE: 35mm



### CLUTCH SERVO

HL NO.: HL71046  
REF NO.: H626392AM  
TECHNICAL PARAMETERS:  
DIA: 80mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 50mm



### CLUTCH SERVO

HL NO.: HL71047  
REF NO.: H626639AM  
TECHNICAL PARAMETERS:  
DIA: 95mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 70mm



### CLUTCH SERVO

HL NO.: HL71058  
REF NO.: HWG9114230022  
TECHNICAL PARAMETERS:  
DIA: 75mm × 22mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 75mm



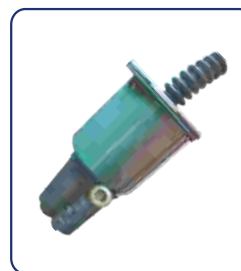
### CLUTCH SERVO

HL NO.: HL71059  
REF NO.: HWG9114230023  
TECHNICAL PARAMETERS:  
DIA: 90mm × 22mm  
AIR: M16 × 1.5  
HYD: M14 × 1.5  
STROKE: 67mm



### CLUTCH SERVO

HL NO.: HL71060  
REF NO.: HWG9114230025  
TECHNICAL PARAMETERS:  
DIA: 102mm x 22mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 60mm



### CLUTCH SERVO

HL NO.: HL71061  
REF NO.: HVG3268  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 84mm



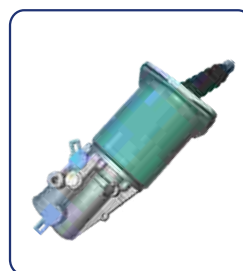
### CLUTCH SERVO

HL NO.: HL71070  
REF NO.: HK015875N50  
TECHNICAL PARAMETERS:



### CLUTCH SERVO

HL NO.: HL71071  
REF NO.: HK013727N50  
TECHNICAL PARAMETERS:



### CLUTCH SERVO

HL NO.: HL71062  
REF NO.: HVG3288  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 84mm



### CLUTCH SERVO

HL NO.: HL71063  
REF NO.: H629300AM  
TECHNICAL PARAMETERS:  
DIA: 100mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 70mm



### CLUTCH SERVO

HL NO.: HL71064  
REF NO.: H970 051 438 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M22 x 1.5 VOSS  
HYD: M14 x 1.5  
STROKE: 25.5mm



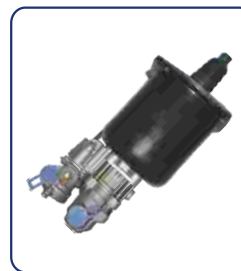
### CLUTCH SERVO

HL NO.: HL71065  
REF NO.: H970 051 439 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 25.2mm



### CLUTCH SERVO

HL NO.: HL71066  
REF NO.: H970 051 422 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M22 x 1.5 VOSS  
HYD: M14 x 1.5  
STROKE: 75mm



### CLUTCH SERVO

HL NO.: HL71067  
REF NO.: H970 051 179 0  
TECHNICAL PARAMETERS:  
DIA: 76mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 67mm



### CLUTCH SERVO

HL NO.: HL71068  
REF NO.: H970 051 125 0  
TECHNICAL PARAMETERS:  
DIA: 102mm  
AIR: M16 x 1.5  
HYD: M14 x 1.5  
STROKE: 70mm



### CLUTCH SERVO

HL NO.: HL71069  
REF NO.: H970 150 001 0  
TECHNICAL PARAMETERS:  
PORT 1: M16x1.5



### AIR HOSE

HL NO.: HL41001  
REF NO.:  
TECHNICAL PARAMETERS:  
SPECIFIION: 22 COILS  
COMMENT: Red/Yellow/Bule/Black



### AIR HOSE

HL NO.: HL41002  
REF NO.:  
TECHNICAL PARAMETERS:  
SPECIFIION: 22 COILS  
COMMENT: Red/Yellow/Bule/Black



### AIR HOSE

HL NO.: HL41003  
REF NO.:  
TECHNICAL PARAMETERS:  
SPECIFIION: 22 COILS  
COMMENT: Red/Yellow/Bule/Black



### AIR HOSE

HL NO.: HL41004  
REF NO.:  
TECHNICAL PARAMETERS:



### AIR HOSE WITH GUN

HL NO.: HL41005  
REF NO.:  
TECHNICAL PARAMETERS:  
COMMENT: Red/Yellow/Bule/Black



### 7 ELECTRIC COIL

HL NO.: HL42001  
REF NO.:  
TECHNICAL PARAMETERS:



### 7 ELECTRIC COIL

HL NO.: HL42003  
REF NO.:  
TECHNICAL PARAMETERS:



### ELECTRIC COUPLER

HL NO.: HL43001  
REF NO.:  
TECHNICAL PARAMETERS:



### ELECTRIC COUPLER

HL NO.: HL43002  
REF NO.:  
TECHNICAL PARAMETERS:



### ELECTRIC COUPLER

HL NO.: HL43003  
REF NO.:  
TECHNICAL PARAMETERS:



### GLAND HEAD

HL NO.: HL44001  
REF NO.: H334 026 011  
PORTS: M22x1.5  
RED-NO CHECK

HL NO.: HL44002  
REF NO.: H334 025 011  
PORTS: M22x1.5  
YELLOW-NO CHECK



### GLAND HEAD

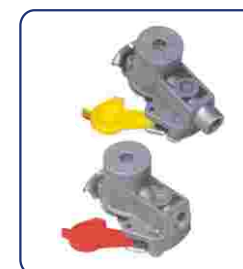
HL NO.: HL44003  
REF NO.: H334 026 031  
PORTS: M16x1.5  
RED-NO CHECK

HL NO.: HL44004  
REF NO.: H334 025 031  
PORTS: M16x1.5  
YELLOW-NO CHECK



### GLAND HEAD

HL NO.: HL44005/44006/44007  
REF NO.: H11450(YELLOW)  
H11451(RED)  
H11452(BLUE)  
YELLOW UNIVERSAL  
RED EMERGENCY  
BLUE SERVICE  
PORTS: 1/2"NPT



### GLAND HEAD

HL NO.: HL44008  
REF NO.: H952 201 002 0  
PORTS: M16x1.5  
RED-NO CHECK

HL NO.: HL44009  
REF NO.: H952 201 001 0  
PORTS: M16x1.5  
YELLOW WITH CHECK



### GLAND HEAD

HL NO.: HL44010  
REF NO.: H452 200 211 0  
PORTS: M22x1.5  
RED AUTOMATIC

HL NO.: HL44015  
REF NO.: H452 200 012 0  
PORTS: M22x1.5  
YELLOW ORDINARY



### GLAND HEAD

HL NO.: HL44011  
REF NO.: H452 200 212 0  
PORTS: M22x1.5  
RED ORDINARY

HL NO.: HL44014  
REF NO.: H452 200 011 0  
PORTS: M22x1.5  
YELLOW AUTOMATIC



### GLAND HEAD

HL NO.: HL44012  
REF NO.: H952 200 221 0  
PORTS: M16x1.5  
RED AUTOMATIC

HL NO.: HL44017  
REF NO.: H952 200 022 0  
PORTS: M16x1.5  
YELLOW ORDINARY



### GLAND HEAD

HL NO.: HL44013  
REF NO.: H952 200 222 0  
PORTS: M16x1.5  
YELLOW AUTOMATIC

HL NO.: HL44016  
REF NO.: H952 200 021 0  
PORTS: M16x1.5  
RED ORDINARY



### GLAND HEAD

HL NO.: HL44018  
REF NO.: H12-308  
PORTS: 3/8"-14UNS  
RED EMERGENCY

HL NO.: HL44019  
REF NO.: H12-306  
PORTS: 3/8"-14UNS  
BLUE SERVICE



### GLAND HEAD

HL NO.: HL44020  
REF NO.: H12-138  
PORTS: 3/8"-14UNS  
RED EMERGENCY

HL NO.: HL44021  
REF NO.: H12-136  
PORTS: 3/8"-14UNS  
BLUE SERVICE





### QUICK COUPLING

HL NO.: HL45001  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: 1/2"NPT  
M16x1.5  
M22x1.5



### QUICK COUPLING

HL NO.: HL45002  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: 1/2"NPT



### QUICK COUPLING

HL NO.: HL45011  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: Φ 4,5,6,8,10,12,14,16



### QUICK COUPLING

HL NO.: HL45011A  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: Φ 4,5,6,8,10,12,14,16



### QUICK COUPLING

HL NO.: HL45003  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: 1"NPT



### QUICK COUPLING

HL NO.: HL45004  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: 1/2"NPT



### QUICK COUPLING

HL NO.: HL45011B  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: Φ 4,5,6,8,10,12,14,16



### QUICK COUPLING

HL NO.: HL45012  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: Φ 4,5,6,8,10,12,14,16



### QUICK COUPLING

HL NO.: HL45005  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: M20x1.5



### QUICK COUPLING

HL NO.: HL45006  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: M27x1.5



### QUICK COUPLING

HL NO.: HL45012A  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: Φ4,5,6,8,10,12,14,16



### QUICK COUPLING

HL NO.: HL45012B  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: Φ4,5,6,8,10,12,14,16



### QUICK COUPLING

HL NO.: HL45007  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: M22x1.5



### QUICK COUPLING

HL NO.: HL45008  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: M22x1.5



### QUICK COUPLING

HL NO.: HL45013  
REF NO.:  
TECHNICAL PARAMETERS:



### 7 UNIT SETS

HL NO.: HL45014  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: M6 / M8 / M10 / M12



### QUICK COUPLING

HL NO.: HL45009  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: 1/2"NPT



### QUICK COUPLING

HL NO.: HL45010  
REF NO.:  
TECHNICAL PARAMETERS:  
PORTS: M22x1.5



### HUB COVER

HL NO.: HL46001  
TYPE: 10T  
TECHNICAL PARAMETERS:  
SIZE: 115x3  
Outside Thread



### HUB COVER

HL NO.: HL46002  
TYPE: 12T  
TECHNICAL PARAMETERS:  
SIZE: 125x2  
Outside Thread



### HUB COVER

HL NO.: HL46003  
TYPE: 12T  
TECHNICAL PARAMETERS:  
SIZE: 135x2  
Inside Thread



### HUB COVER

HL NO.: HL46004  
TYPE: 14T  
TECHNICAL PARAMETERS:  
SIZE: 135x3  
Outside Thread



### HUB COVER

HL NO.: HL46005  
TYPE: 14T  
TECHNICAL PARAMETERS:  
SIZE: 148x2  
Inside Thread



### HUB COVER

HL NO.: HL46006  
TYPE: 16T  
TECHNICAL PARAMETERS:  
SIZE: 155x3  
Outside Thread



### HUB COVER

HL NO.: HL46007  
TYPE: 24T  
TECHNICAL PARAMETERS:  
SIZE: 170x3  
Outside Thread



### HUB COVER

HL NO.: HL46008  
TYPE: 32T  
TECHNICAL PARAMETERS:  
SIZE: 228x3  
Outside Thread



### HUB COVER

HL NO.: HL46009  
TYPE: H343-4075  
TECHNICAL PARAMETERS:  
SIZE: 6-1/4"x8 UN  
Outside Thread



### HUB COVER

HL NO.: HL46010  
TYPE:  
TECHNICAL PARAMETERS:  
SIZE: 58x3  
Outside Thread



### SLACK ADJUSTER

HL NO.: HL31001  
REF NO.: H283411  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 37TEETH  
ARM LENGTH: 6"  
SPLINE: 1 5/8"  
BUSHING: Φ12.7



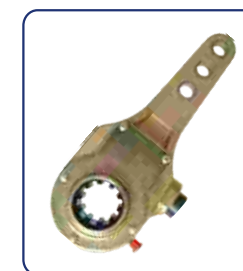
### SLACK ADJUSTER

HL NO.: HL31002  
REF NO.: HKN55001  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 24TEETH  
ARM LENGTH: 5.5"  
SPLINE: 1 1/4"  
BUSHING: Φ12.7



### SLACK ADJUSTER

HL NO.: HL31003  
REF NO.: H286965  
TECHNICAL PARAMETERS:  
STYLE: 2HOLES 28TEETH  
ARM LENGTH: 6",5"  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



### SLACK ADJUSTER

HL NO.: HL31004  
REF NO.: H278323  
TECHNICAL PARAMETERS:  
STYLE: 3HOLES 10TEETH  
ARM LENGTH: 7",6",5"  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



### SLACK ADJUSTER

HL NO.: HL31005  
REF NO.: H278305  
TECHNICAL PARAMETERS:  
STYLE: 3HOLES 10TEETH  
ARM LENGTH: 7",6",5"  
SPLINE: 1 1/4"  
BUSHING: Φ12.7



### SLACK ADJUSTER

HL NO.: HL32001  
REF NO.:  
TECHNICAL PARAMETERS:  
STYLE: 2HOLES 10TEETH  
ARM LENGTH: 6.5",5.5"  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



### SLACK ADJUSTER

HL NO.: HL32002  
REF NO.: H051 745 470 0  
TECHNICAL PARAMETERS:  
STYLE: 4HOLES 10TEETH  
ARM LENGTH: 250,180,150,120  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL32003  
REF NO.: H051 745 261 0  
TECHNICAL PARAMETERS:  
STYLE: 5HOLES 10TEETH  
ARM LENGTH: 250,220,180,150,120  
SPLINE: 1 1/2"  
BUSHING: Φ14



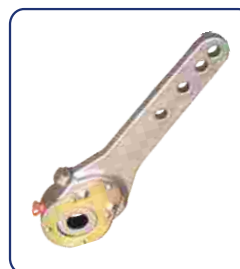
### SLACK ADJUSTER

HL NO.: HL32004  
REF NO.: H051 746 522 0  
TECHNICAL PARAMETERS:  
STYLE: 6HOLES 10TEETH  
ARM LENGTH: 250,180,165,150,  
135,120  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL32005  
REF NO.: H051 746 513 0  
TECHNICAL PARAMETERS:  
STYLE: 7HOLES 10TEETH  
ARM LENGTH: 250,195,180,165,150,  
135,120  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL32006  
REF NO.:  
TECHNICAL PARAMETERS:  
STYLE: 4HOLES 27TEETH  
ARM LENGTH: 262,241,211,171  
SPLINE: 42.8



## SLACK ADJUSTER

HL NO.: HL32007  
REF NO.: HTX90156  
TECHNICAL PARAMETERS:  
STYLE: 5HOLES 37TEETH  
ARM LENGTH: 180,150,130,105  
SPLINE: 40.8



## SLACK ADJUSTER

HL NO.: HL32019A/32019B  
REF NO.: H5511-3502136(A)  
H5511-3502237(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 125  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32020  
REF NO.: H120-3501136  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 102  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



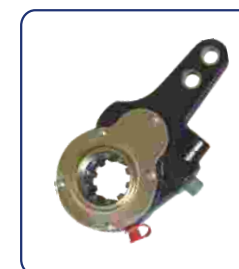
## SLACK ADJUSTER

HL NO.: HL32008/32009  
REF NO.: H288540  
H288539  
TECHNICAL PARAMETERS:  
STYLE: 2HOLES 10TEETH  
ARM LENGTH: 166.5,141.6  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32010  
REF NO.:  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 19TEETH  
ARM LENGTH: 181  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32021  
REF NO.: H120-3502336  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 102,125  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32022A/32022B  
REF NO.: H1448114(A)  
H1448115(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



## SLACK ADJUSTER

HL NO.: HL32011  
REF NO.: H345 420 743 8  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 19TEETH  
ARM LENGTH: 138  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL32012/32013  
REF NO.: H346 420 173 8  
H346 420 183 8  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL32023  
REF NO.: H1448113  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



## SLACK ADJUSTER

HL NO.: HL32024A/32024B  
REF NO.: H1448120(A)  
H1448121(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



## SLACK ADJUSTER

HL NO.: HI32014/32015  
REF NO.: H346 420 173 8  
H346 420 183 8  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL32016  
REF NO.: HK51000  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 6"  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32025A/32025B  
REF NO.: H54321-3502135(A)  
H54321-3502136(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 25TEETH  
ARM LENGTH: 150  
SPLINE: 1 1/2"  
BUSHING: Φ12



## SLACK ADJUSTER

HL NO.: HL32026A/32026B  
REF NO.: H64226-3502135-010(A)  
H64226-3502136-010(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 25TEETH  
ARM LENGTH: 150  
SPLINE: 1 1/2"  
BUSHING: Φ12



## SLACK ADJUSTER

HL NO.: HL32017  
REF NO.: H5320-3501136  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 125  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32018A/32018B  
REF NO.: H5320-3502136(A)  
H5320-3502237(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 125  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL32027A/32027B  
REF NO.: H64226-3502135(A)  
H64226-3502136(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 25TEETH  
ARM LENGTH: 150  
SPLINE: 1 1/2"  
BUSHING: Φ12



## SLACK ADJUSTER

HL NO.: HL32028A/32028B  
REF NO.: H103-3501136(A)  
H64226-3501136(B)  
TECHNICAL PARAMETERS:  
STYLE: 2HOLES 10TEETH  
ARM LENGTH: 125,150  
SPLINE: 1 1/2"  
BUSHING: Φ12





## SLACK ADJUSTER

HL NO.: HL33001A/33001B  
REF NO.: H72660(A)  
H72661(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



## SLACK ADJUSTER

HL NO.: HL33002A/33002B  
REF NO.: H72663(A)  
H72664(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



## SLACK ADJUSTER

HL NO.: HL33011A/33011B  
REF NO.: H72062(A)  
H72063(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33012  
REF NO.: H79186  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33003A/33003B  
REF NO.: H72784(A)  
H72785(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL33004  
REF NO.: H79034  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



## SLACK ADJUSTER

HL NO.: HL33013A/33013B  
REF NO.: H79219(A)  
H79220(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 130  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33014A/33014B  
REF NO.: H79288(A)  
H79289(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 28TEETH  
ARM LENGTH: 160  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL33005A/33005B  
REF NO.: H79442(A)  
H79443(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 165  
SPLINE: 1 1/2"  
BUSHING: Φ16



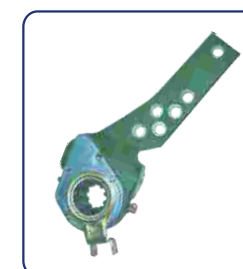
## SLACK ADJUSTER

HL NO.: HL33006A/33006B  
REF NO.: H72678(A)  
H72166(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 140  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL33015  
REF NO.: H72875  
TECHNICAL PARAMETERS:  
STYLE: 6HOLE 10TEETH  
ARM LENGTH:  
120,135,150,165,180,250  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33016  
REF NO.: H79005  
TECHNICAL PARAMETERS:  
STYLE: 6HOLE 10TEETH  
ARM LENGTH:  
105,120,140,155,180,250  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33007A/33007B  
REF NO.: H79336(A)  
H79337(B)  
TECHNICAL PARAMETERS:  
STYLE: 2HOLE 10TEETH  
ARM LENGTH: 152,179  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33008A/33008B  
REF NO.: H79208(A)  
H79209(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33017A/33017B  
REF NO.: H70867(A)  
H79212(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33018  
REF NO.: H79353  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 14TEETH  
ARM LENGTH: 135  
SPLINE: 1 1/2"  
BUSHING: Φ12



## SLACK ADJUSTER

HL NO.: HL33009A/33009B  
ORIGINAL NO.: H79304(A)  
H79305(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 28TEETH  
ARM LENGTH: 160  
SPLINE: 1 1/2"  
BUSHING: Φ12.7



## SLACK ADJUSTER

HL NO.: HL33010A/33010B  
ORIGINAL NO.: H70952(A)  
H70953(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 26TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



## SLACK ADJUSTER

HL NO.: HL33019A/33019B  
REF NO.: H79351(A)  
H79352(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 14TEETH  
ARM LENGTH: 135,165  
SPLINE: 1 1/2"  
BUSHING: Φ12



## SLACK ADJUSTER

HL NO.: HL33020  
REF NO.: H79569  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 125  
SPLINE: 1 1/2"  
BUSHING: Φ12



### SLACK ADJUSTER

HL NO.: HL33021  
REF NO.: H79230  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 19TEETH  
ARM LENGTH: 122  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL33022A/33022B  
REF NO.: H79231(A)  
H79232(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 19TEETH  
ARM LENGTH: 145  
SPLINE: 1 1/2"  
BUSHING: Φ14



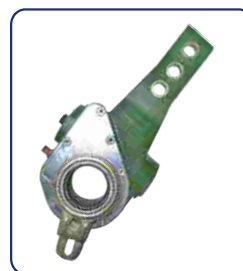
### SLACK ADJUSTER

HL NO.: HL33023  
REF NO.: H79416  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 25TEETH  
ARM LENGTH: 150  
SPLINE: 1 1/2"  
BUSHING: Φ16



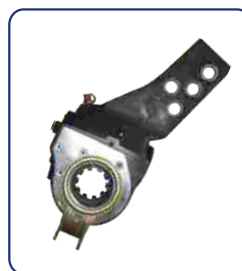
### SLACK ADJUSTER

HL NO.: HL33024A/33024B  
REF NO.: H79567(A)  
H79568(B)  
TECHNICAL PARAMETERS:  
STYLE: 1HOLE 10TEETH  
ARM LENGTH: 130  
SPLINE: 1 1/2"  
BUSHING: Φ12



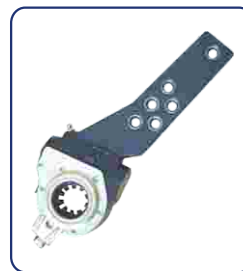
### SLACK ADJUSTER

HL NO.: HL33025  
REF NO.:  
TECHNICAL PARAMETERS:  
STYLE: 3HOLE 37TEETH  
ARM LENGTH:  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL33026  
REF NO.: H80078  
TECHNICAL PARAMETERS:  
STYLE: 4HOLE 10TEETH  
ARM LENGTH:  
SPLINE: 1 1/2"  
BUSHING:



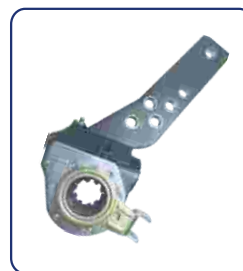
### SLACK ADJUSTER

HL NO.: HL33027  
REF NO.: H80019  
TECHNICAL PARAMETERS:  
STYLE: 6HOLE 10TEETH  
ARM LENGTH:  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL33028  
REF NO.: H80020  
TECHNICAL PARAMETERS:  
STYLE: 5HOLE 10TEETH  
ARM LENGTH:  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL33029  
REF NO.: H80022  
TECHNICAL PARAMETERS:  
STYLE: 6HOLE 10TEETH  
ARM LENGTH:  
SPLINE: 1 1/2"  
BUSHING: Φ14



### SLACK ADJUSTER

HL NO.: HL33030  
REF NO.: H80023  
TECHNICAL PARAMETERS:  
STYLE: 4HOLE 10TEETH  
ARM LENGTH:  
SPLINE: 1 1/2"  
BUSHING: Φ14