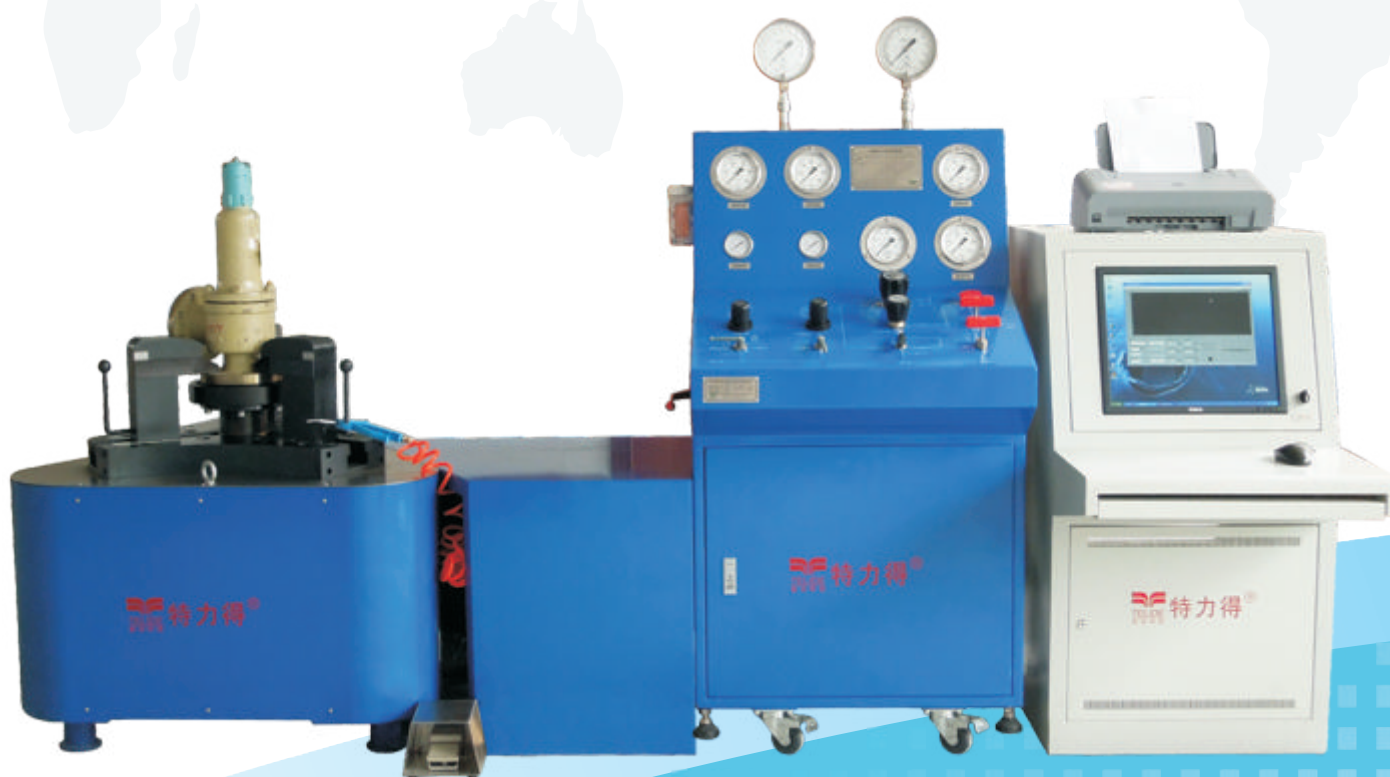


## Safety Relief Valve Test Bench

Reliable components  
Large clamping force

Rational system  
Excellent durability



**SHENZHEN TELIDE HIGH PRESSURE FLUID CO.,LTD.**

## About us



## ABOUT US

Shenzhen Telide High Pressure Fluid Co.,Ltd. was established in 2001. Taken into consideration of its previous experience in the field of high pressure fluid, its history can be traced back to more than 20 years ago. The company has developed various high pressure equipments with independent intellectual property rights. The safety relief test valve test bench is one of the equipments that are famous for their reliable components , rational system and structure, which are highly praised by oversea merchants.

In 2009, Shenzhen Telide High Pressure Fluid Co.,Ltd with Zhejiang Special Equipment Inspection and Research Institute successfully accomplished the science and technology projects, “special equipment safety valve inspection vehicle” , of China's General Administration of Quality Supervision, Inspection and Quarantine. Telide took responsibility of the design and manufacture of the high pressure SRV test bench. This project got through the approval of China's General Administration of Quality Supervision, Inspection and Quarantine as Science and Technology Appraisal and was given Appraisal (2009) NO.172 which identified it as “integrated innovation, the first of its kind in China , in the leading domestic level”.

Telide is a High-tech enterprise in Shenzhen City and has obtained ISO9001 certificate including but not limited to, the manufacturer of safety relief valve test bench .

## Brief Introduction to Safety Relief Valve Test Bench

We are the exclusive distributor of “Sprague® Products” of Curtiss-wright Flow Control Corporation in America and also exclusive distributor of “NOVA SWISS” high pressure components and Scanwill oil intensifiers of Denmark. “Telide” SRV test bench adopts Sprague air driven pumps and NOVA valves and fittings to guarantee the quality of all the components. Through adjustment to driven air pressure, it can obtain the corresponding output gas or liquid pressure and provide a stable pressure source for SRV test; again through high-pressure regulator to obtain the needed gas pressure of SRV, the precise pressure adjustment to be obtained to test set pressure and seat tightness of SRV, high, medium and low pressure SRV can be tested on the one bench. Their unique structures, hydraulic clamping designs, large stepless adjustable clamping forces and wide measurable valve size ranges of the gas test benches, liquid test benches and gas-liquid test benches bring more choices and convenience to customers.

“Telide” safety valve test bench will bring you quality components, advanced technology, better service and competitive price.

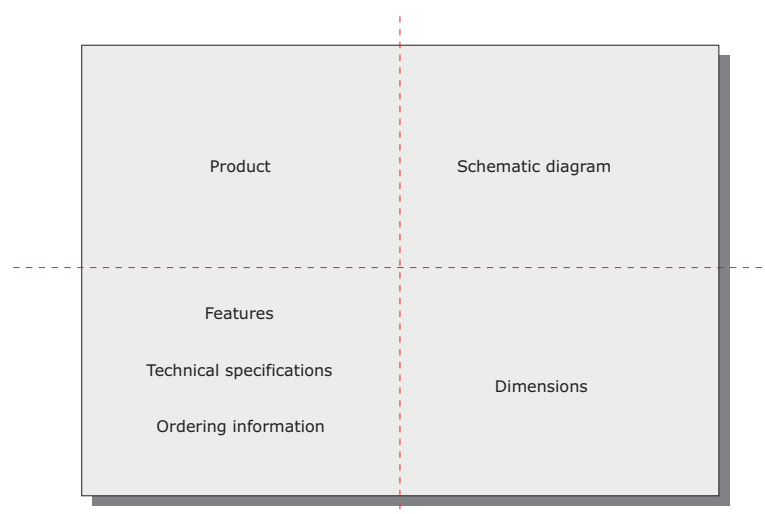


Shenzhen high-tech enterprise

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## GUIDE



## PRODUCTS

### TPU-3100-1 MP&LP Gas Safety Valve Test Bench



#### Features :

1. Not equipped with booster pump, test by cylinder pressure directly.
2. Automatic hydraulic clamping and adjustable clamping force, safety and dependability; not require electric power.
3. Test cracking and sealing pressure.
4. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.

#### Technical specifications:

Measurable range of valve:	DN 15-150,15-250,15-300,15-300/400mm (Larger DN can be made according to special requests)
Test pressure:	0-15MPa
Clamping force:	13/20/25/30/40 tons (optional)
Test medium:	nitrogen,
Dimensions of control bench:	600mmx620mmx1680mm
Weight of control bench:	98KG
Dimensions of clamping bench:	975mmx895mmx780mm
Clamping seat:	single seat
Weight of clamping bench:	376KG

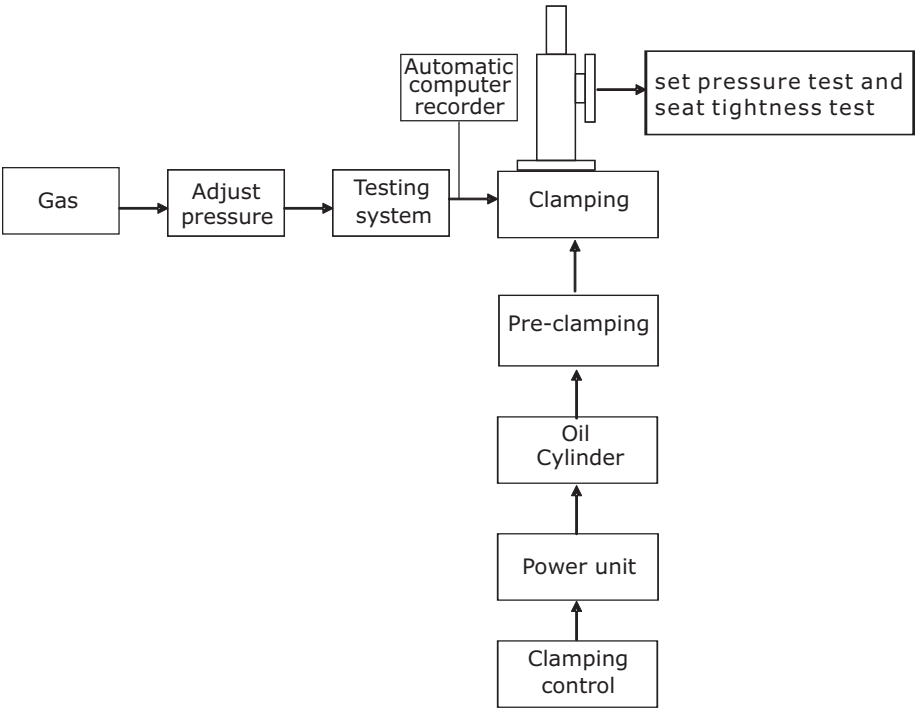
#### Ordering:

**TPU — 3100 — 1**  
TELIDE Power Unit — Safety Valve Test Bench — Medium/low pressure

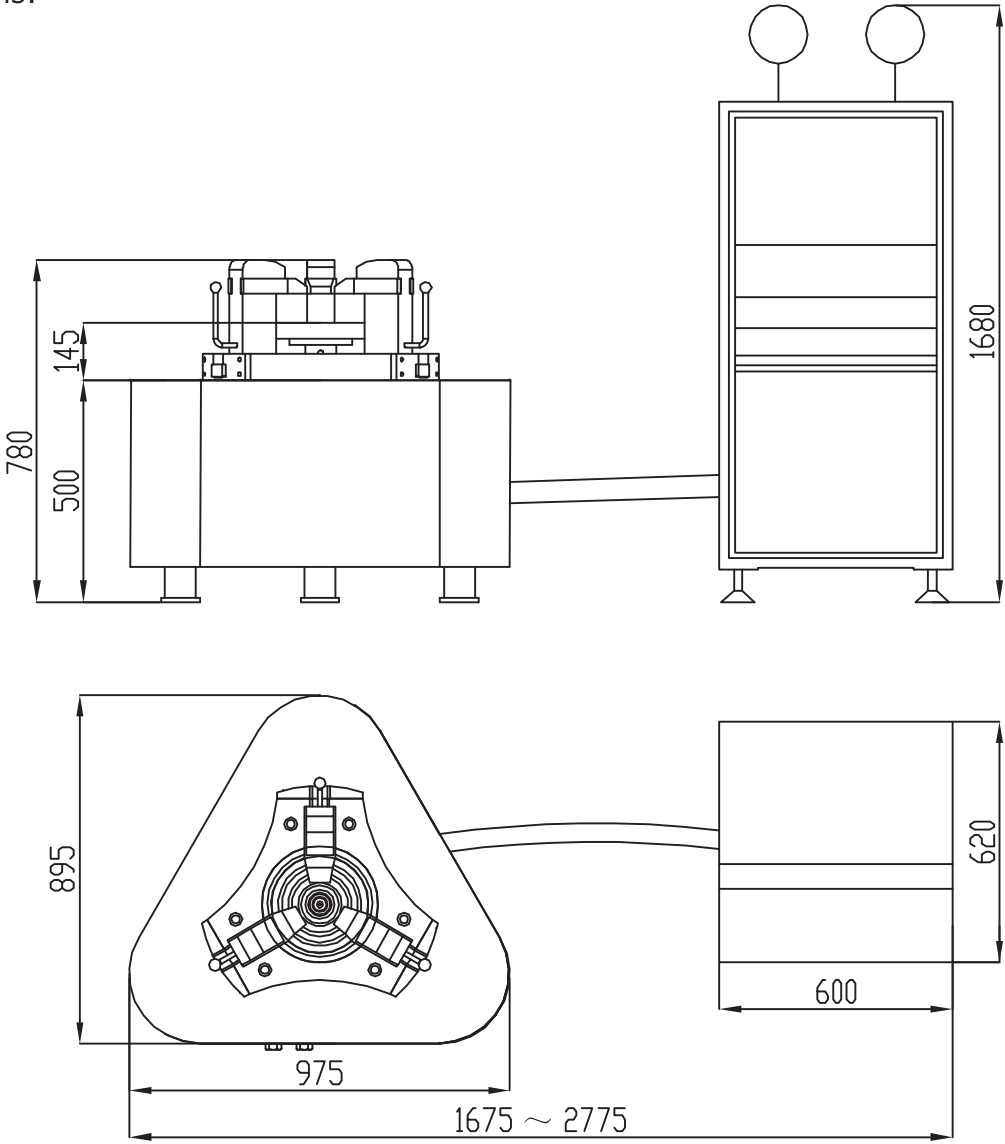
Please indicate the measurable range and clamping force.

**Please see the selection table and testing pressure table on page 20 for more details.**

Schematic diagram:



Dimensions:



## PRODUCTS

### TPU-3100-3 HP&MP&LP Gas Safety Valve Test Bench



#### Features :

1. Equipped with American “Sprague Products” air driven pumps which can build up pressure quickly and keep up pressure well, and with high cycling needle valves from NOVA SWISS.
2. Automatic hydraulic clamping and adjustable clamping force, safety and dependability; not require electric power.
3. Test cracking and sealing pressure.
4. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.

#### Technical specifications:

Measurable range of valve:	DN 15-150,15-250,15-300,15-300/400mm (Lager DN can be made according to special requests)
Test pressure:	0-30,0-40,0-68 MPa
Clamping force:	13/20/25/30/40 tons (optional)
Test medium:	nitrogen, compressed air
Dimensions of control bench:	740mmx720mmx1780mm
Weight of control bench:	208KG
Dimensions of clamping bench:	975mmx895mmx780mm
Clamping seat:	single seat
Weight of clamping bench:	432KG

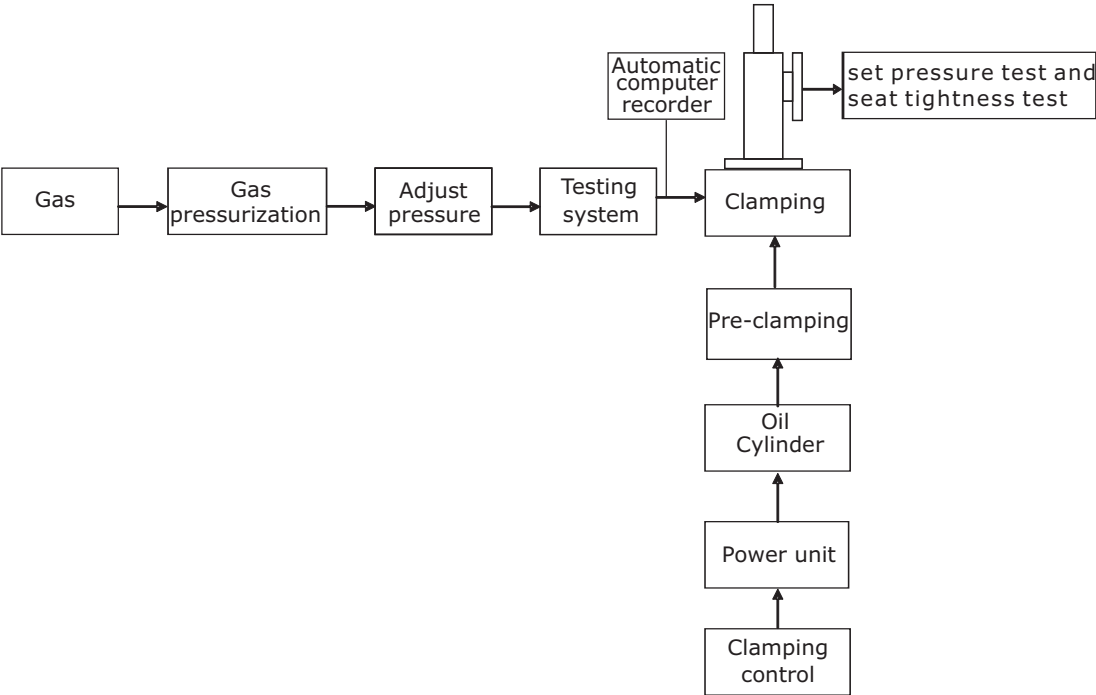
#### Ordering:

**TPU — 3100 — 3**  
TELIDE Power Unit — Safety Valve Test Bench — High/Medium/low pressure and gas

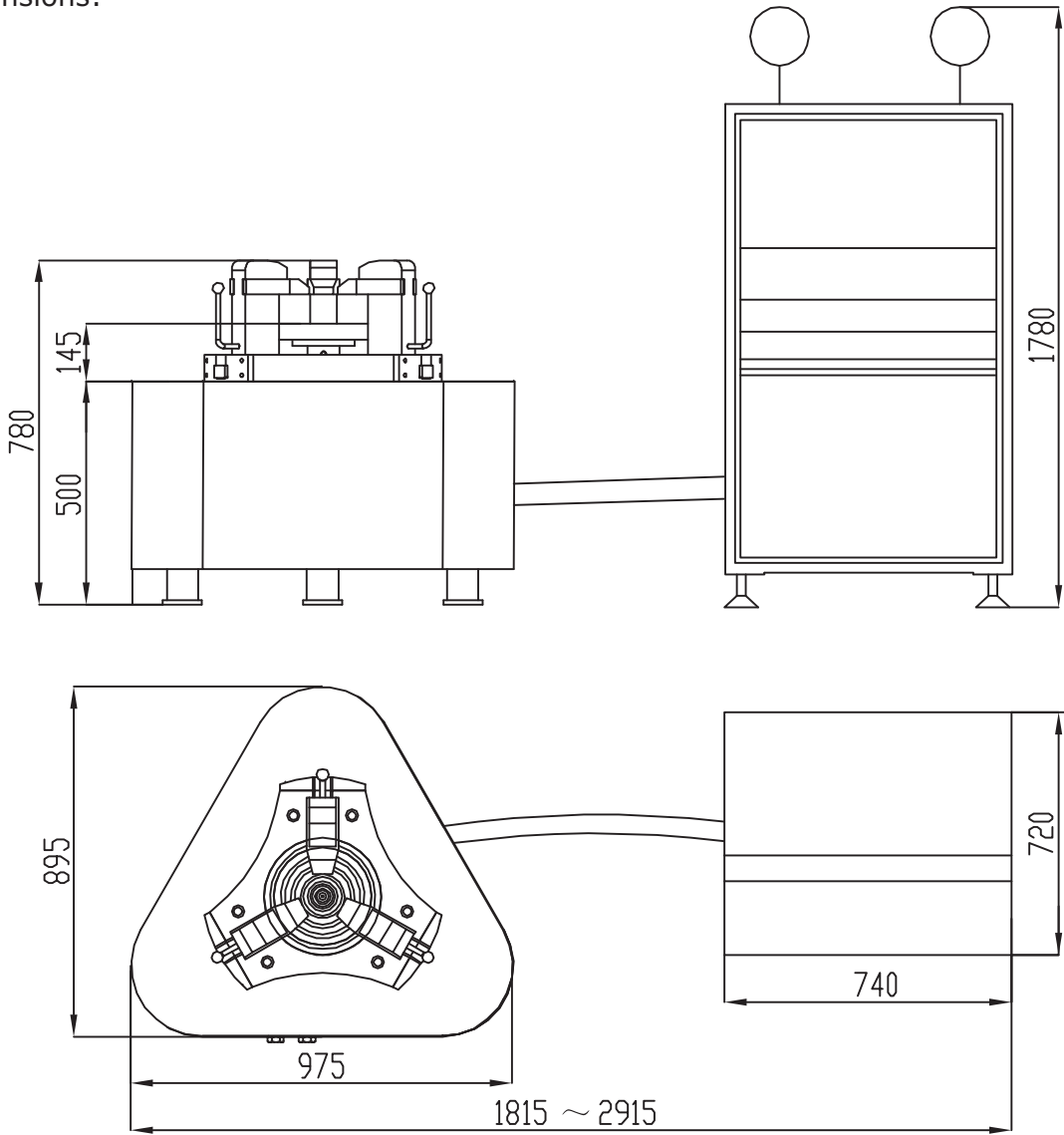
Please indicate the measurable range, pressure and clamping force.

**Please see the selection table and testing pressure table on page 20 for more details.**

Schematic diagram:



Dimensions:





## PRODUCTS

### TPU-3100-2 HP&MP&LP Liquid Safety Valve Test Bench



#### Features :

1. Equipped with American “Sprague Products” air driven pumps which can build up pressure quickly and keep up pressure well, and with high cycling needle valves from NOVA SWISS.
2. Automatic hydraulic clamping and adjustable clamping force, safety and dependability; not require electric power.
3. Test cracking and sealing pressure.
4. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.

#### Technical specifications:

Measurable range of valve:	DN 15-150,15-250,15-300,15-300/400mm (Larger DN can be made according to special requests)
Test pressure:	0-30,0-40,0-68 MPa
Clamping force:	13/20/25/30/40 tons (optional)
Test medium:	water
Dimensions of control bench:	740mmx700mmx1730mm
Weight of control bench:	110KG
Dimensions of clamping bench:	975mmx895mmx780mm
Clamping seat:	single seat
Weight of clamping bench:	350KG

#### Ordering:

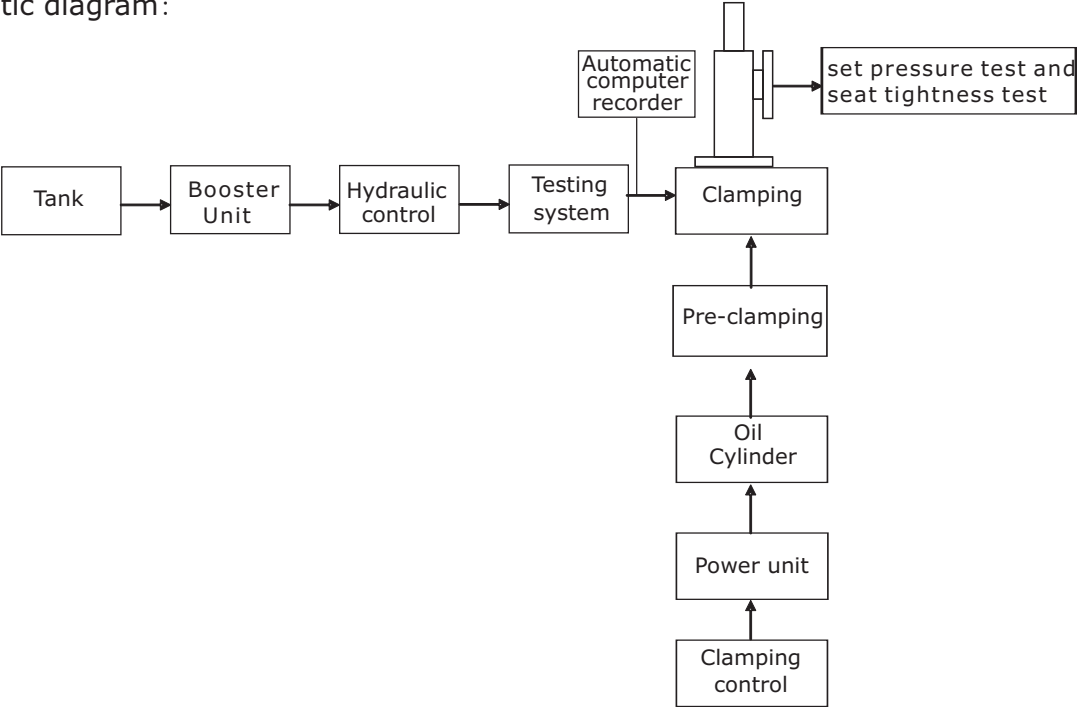
**TPU—3100—2**  
TELIDE Power Unit — Safety Valve Test Bench — High/Medium/low pressure and liquid

Please indicate the measurable range, pressure and clamping force.

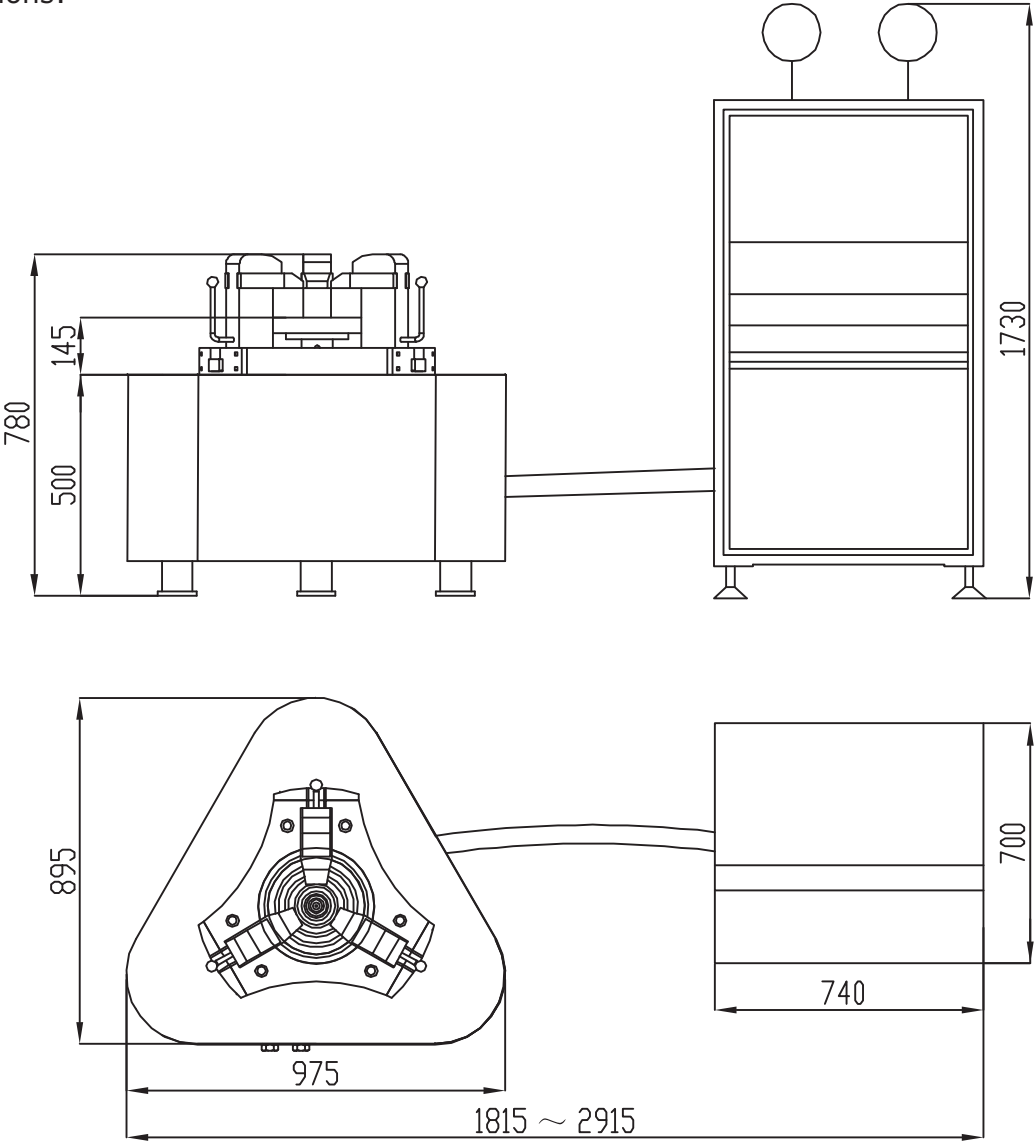
**Please see the selection table and testing pressure table on page 20 for more details.**



Schematic diagram:



Dimensions:



### TPU-3100-L HP&MP&LP Gas-Liquid Safety Valve Test Bench



#### Features :

1. Equipped with American “Sprague Products” air driven pumps which can build up pressure quickly and keep up pressure well, and with high cycling needle valves from NOVA SWISS.
2. Automatic hydraulic clamping and adjustable clamping force, safety and dependability; not require electric power.
3. Test with gas or liquid medium.
4. Test cracking and sealing pressure.
5. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.

#### Technical specifications:

Measurable range of valve:	DN 15-150,15-250,15-300,15-300/400mm (Lager DN can be made according to special requests)
Test pressure:	0-30,0-40,0-68 MPa
Clamping force:	13/20/25/30/40 tons (optional)
Test medium:	nitrogen/compressed air/water
Dimensions of control bench:	855mmx720mmx1730mm
Weight of control bench:	110KG
Dimensions of clamping bench:	975mmx895mmx780mm
Clamping seat:	single seat
Weight of clamping bench:	350KG

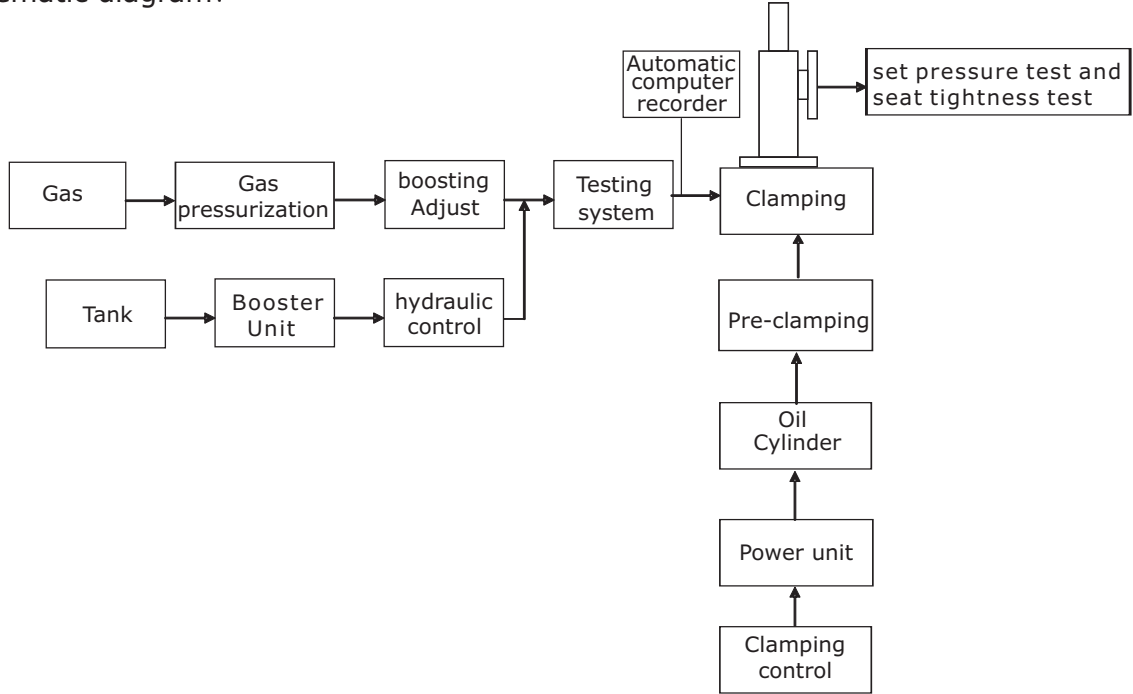
#### Ordering:

**TPU — 3100 — L**  
 TELIDE Power Unit — Safety Valve Test Bench — High/Medium/low pressure, Gas and liquid

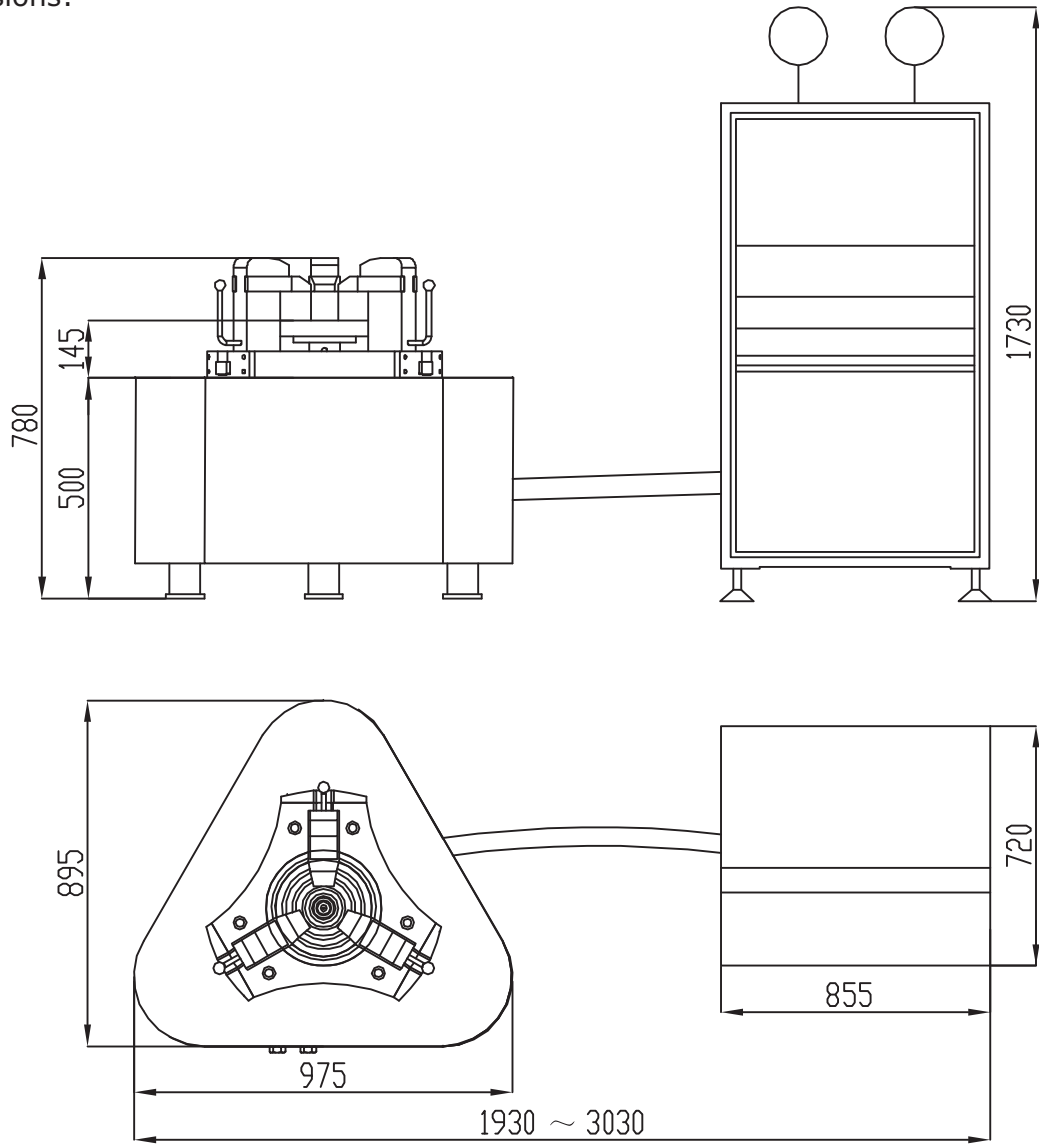
Please indicate the measurable range, pressure and clamping force.

**Please see the selection table and testing pressure table on page 20 for more details.**

Schematic diagram:



Dimensions:



## PRODUCTS

### TPU-3100-D Large-size and Double-seat HP&MP&LP Gas Safety Valve Test Bench



#### Features :

1. Equipped with American “Sprague Products” air driven pumps which can build up pressure quickly and keep up pressure well, and with high cycling needle valves from NOVA SWISS.
2. Automatic hydraulic clamping and adjustable clamping force, safety and dependability; not require electric power.
3. Test cracking and sealing pressure.
4. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.

#### Technical specifications:

Measurable range of valve:	DN 15-200,200-400mm
Test pressure:	0-30,0-40,0-68 MPa
Clamping force:	small clamping seat:13 or 30 tons;big seat:40 tons
Test medium:	nitrogen,compressed air
Dimensions of control bench:	855mmx720mmx1780mm
Weight of control bench:	198KG
Dimensions of clamping bench:	1650mmx900mmx950mm
Clamping seat:	double seat
Weight of clamping bench:	845KG

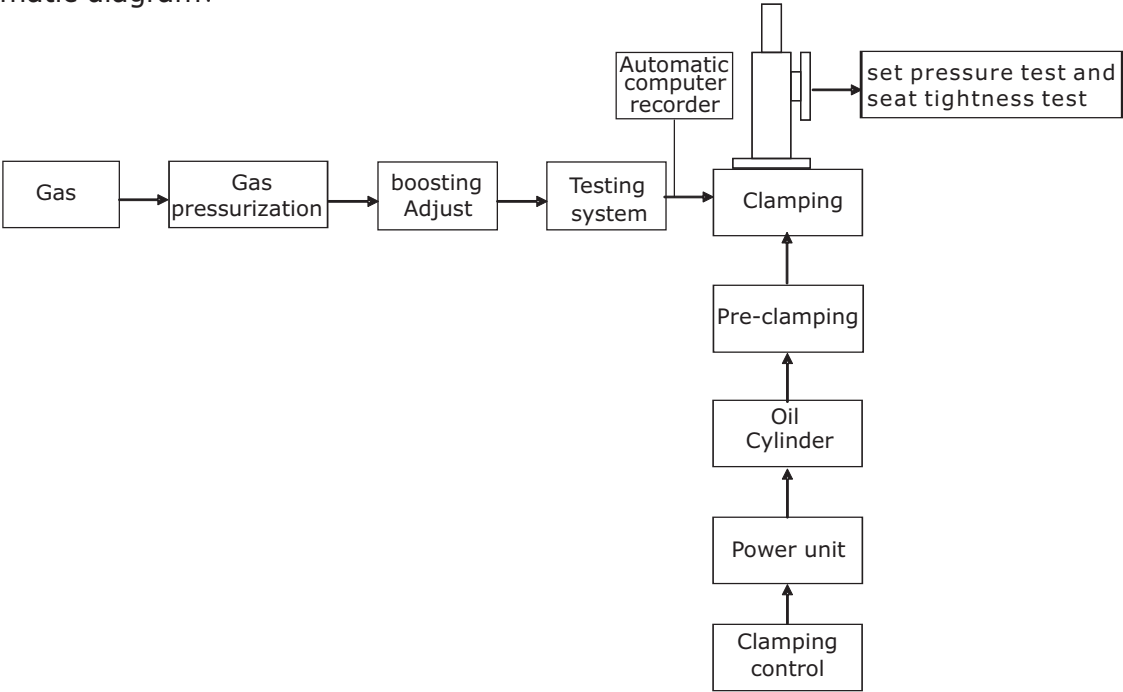
#### Ordering:

**TPU — 3100 — D**  
TELIDE Power Unit — Safety Valve Test Bench — Large-size and double seat

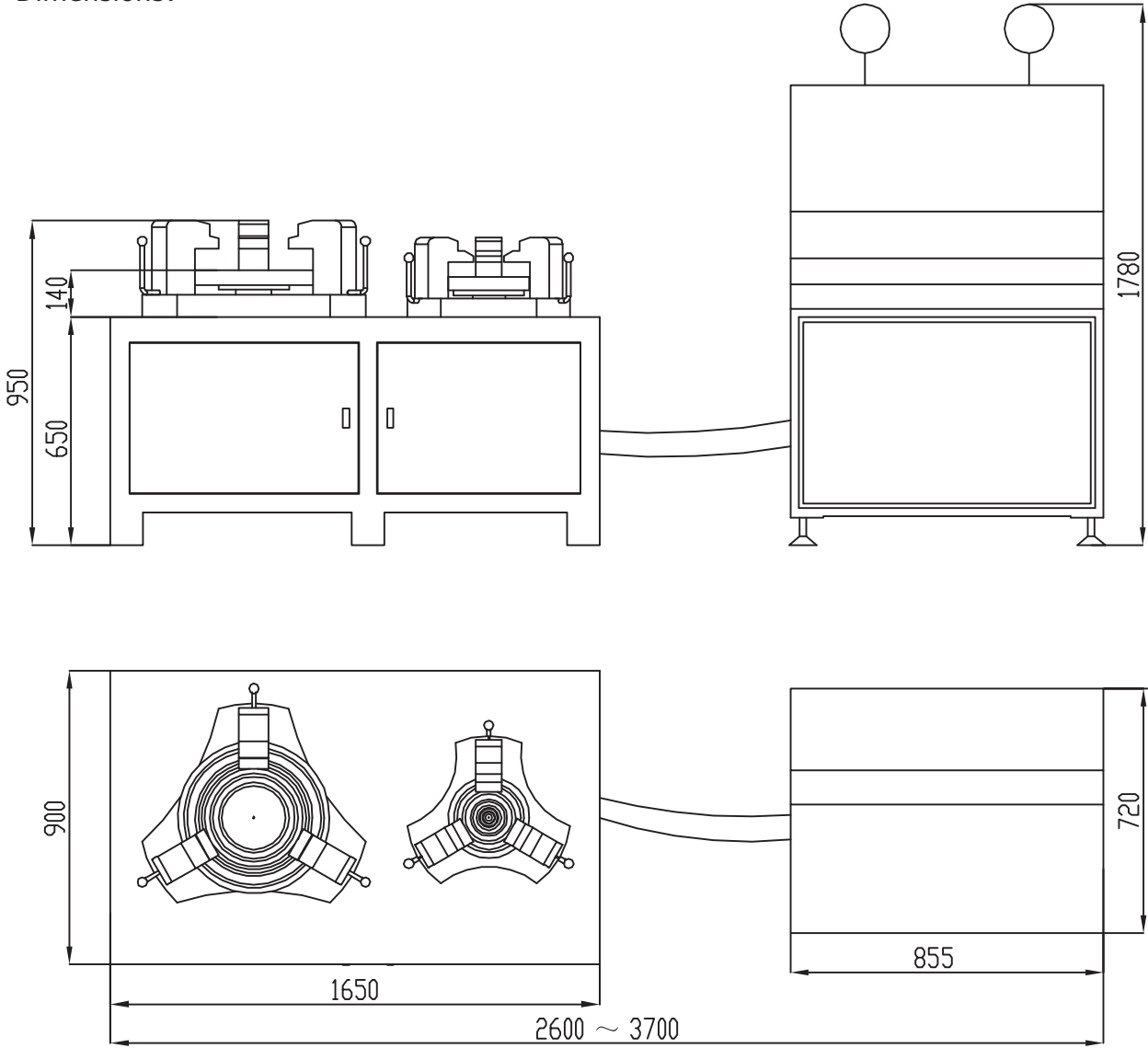
Please indicate the measurable range, pressure and clamping force.

**Please see the selection table and testing pressure table on page 20 for more details.**

Schematic diagram:



Dimensions:



## PRODUCTS

### TPU-3100-DL Large-size and Double-seat HP&MP&LP Gas-Liquid Safety Valve Test Bench



#### Features :

1. Equipped with American “Sprague Products” air driven pumps which can build up pressure quickly and keep up pressure well, and with high cycling needle valves from NOVA SWISS.
2. Automatic hydraulic clamping and adjustable clamping force, safety and dependability; not require electric power.
3. Test with gas or liquid medium.
4. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.

#### Technical specifications:

Measurable range of valve:	DN 15-200,200-400mm
Test pressure:	0-30,0-40,0-68 MPa
Clamping force:	small clamping seat:13 or 30 tons;big seat:40 tons
Test medium:	nitrogen/compressed air/water
Dimensions of control bench:	855mmx720mmx1780mm
Weight of control bench:	198KG
Dimensions of clamping bench:	1650mmx900mmx950mm
Clamping seat:	double seat
Weight of clamping bench:	845KG

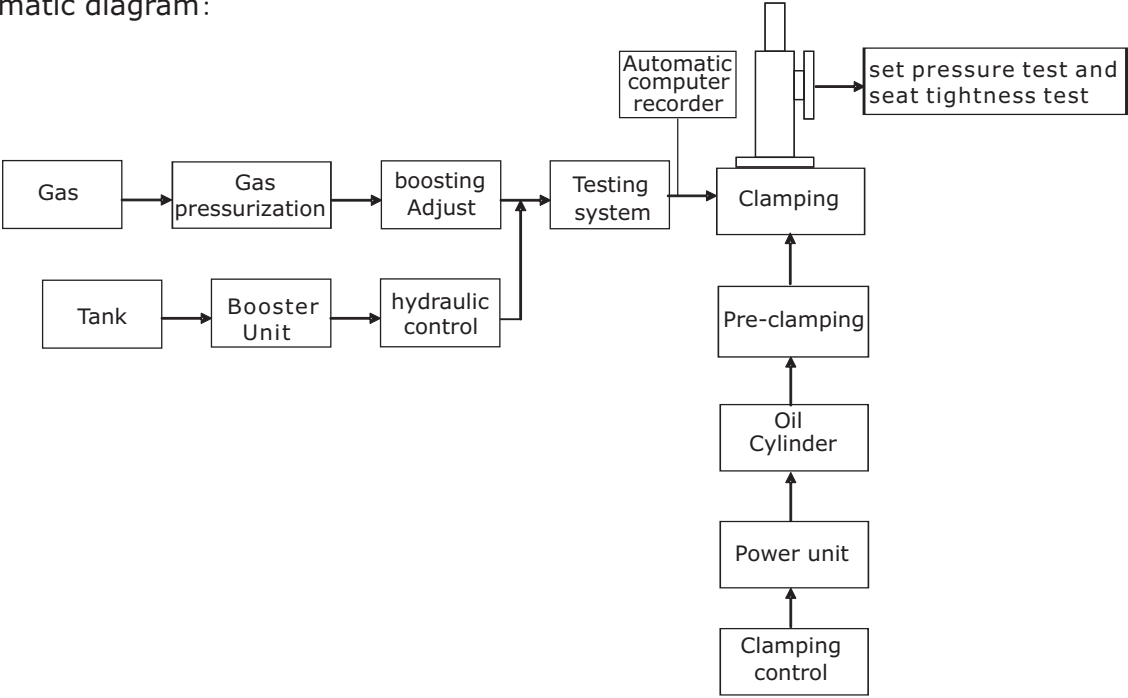
#### Ordering:

**TPU—3100—DL**  
TELIDE Power Unit — Safety Valve Test Bench — Large-size ,double seat, gas and liquid

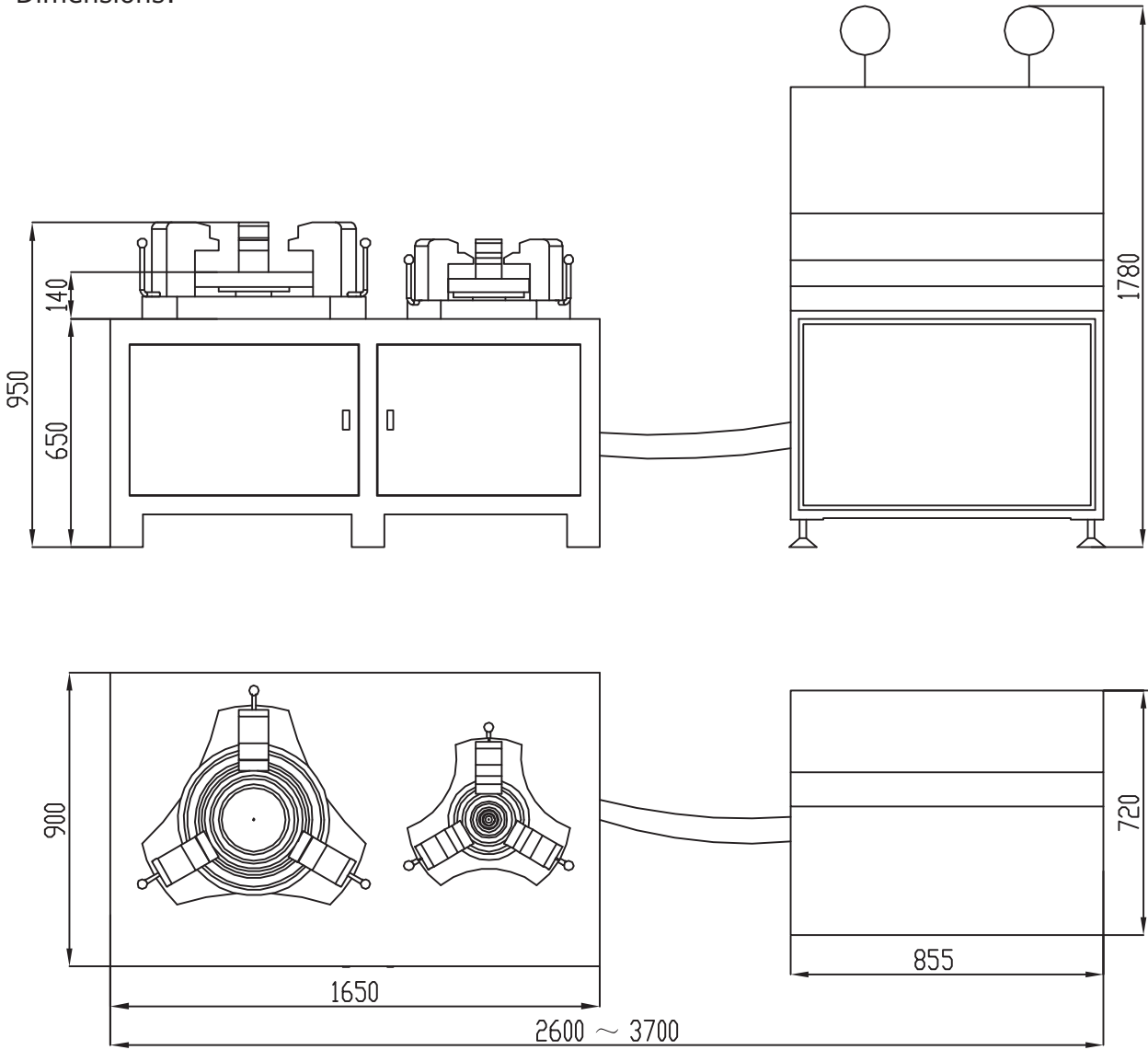
Please indicate the measurable range, pressure and clamping force.

**Please see the selection table and testing pressure table on page 20 for more details.**

Schematic diagram:



Dimensions:





### PTP-2/3 HP&MP&LP Portable Gas & liquid Safety Valve Test Bench



PTP-2

#### Features :

1. Test all kinds of Fall lift, Low lift, Metric, British, Threaded type, Flange, domestic or imported safety valves.
2. Light weight & portable; Can choose test bench for gas & liquid separately, clamping bench & test bench can be delivered separately.
3. Suitable for clamping various of shapes of valves.

#### Technical specifications:

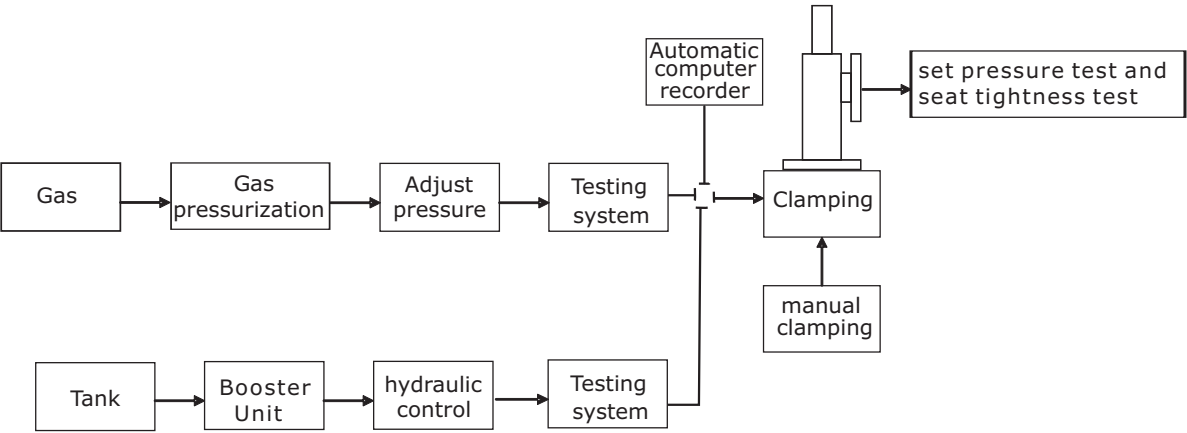
Measurable range of valve:	DN 15-150mm
Test pressure:	0-30,0-40,0-68 MPa
Clamping force:	8 tons
Test medium:	nitrogen, compressed air, water
Dimensions of gas control bench:	715mmx475mmx685mm
Weight of gas control bench:	43Kg
Dimensions of liquid control bench:	750mmx520mmx870mm
Weight of liquid control bench:	45kg
Dimensions of clamping bench:	752mmx552mmx706mm
Clamping seat:	single seat
Weight of clamping bench:	98kg

#### Ordering:

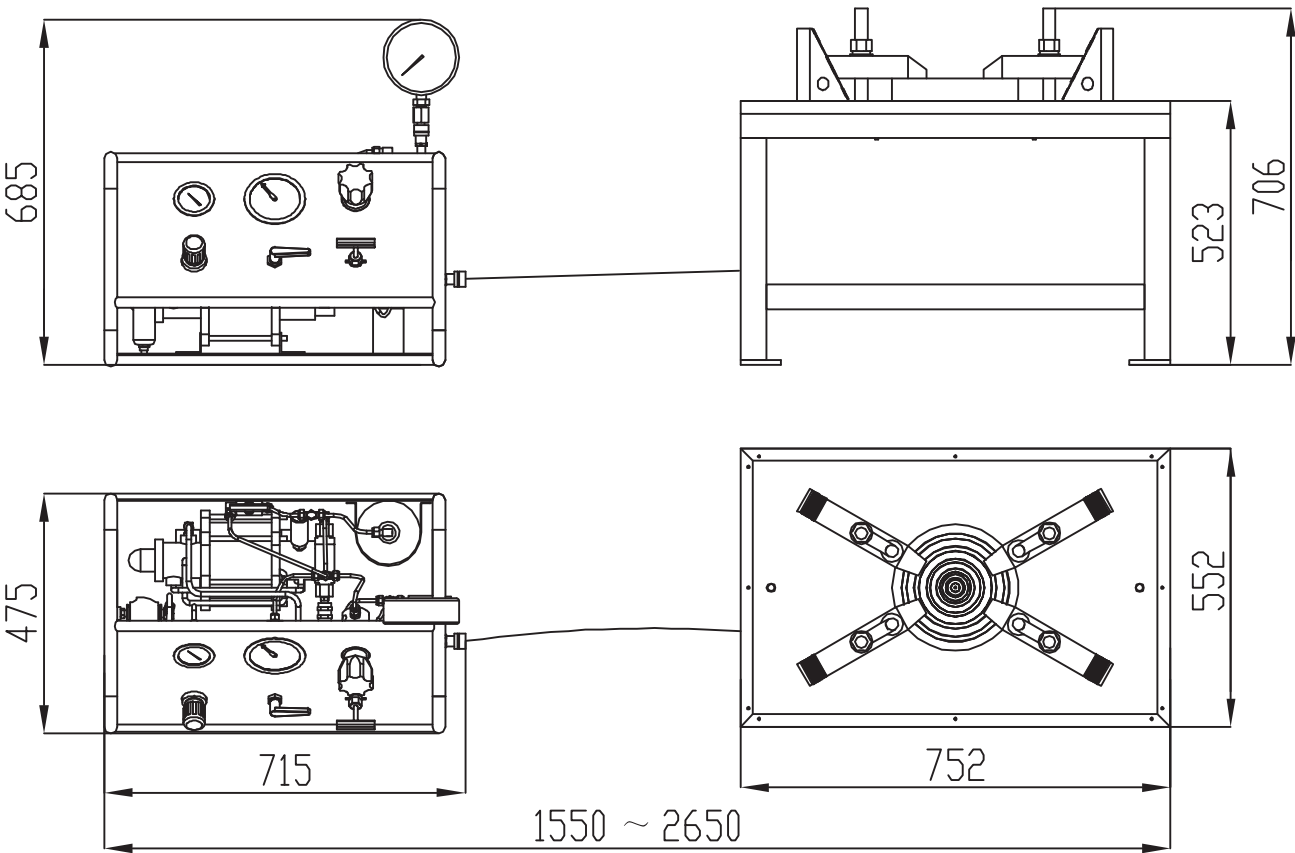
PTP — 2                      PTP — 3  
 TELIDE portable test bench — High/Medium/low pressure ,Gas    High/Medium/low pressure,Liquid

Please see the selection table and testing pressure table on page 20 for more details.

Schematic diagram:



Dimensions:



PTP-2

## PRODUCTS

### PTP-1 MP&LP Portable Gas Safety Valve Test Bench



#### Features :

- 1.Manual clamping
- 2.Not equipped with booster pump, test by cylinder pressure directly.
- 3.Light weight; easy to carry; just need HP nitrogen cylinder or compressed air to test; can be carried to any construction site for testing.

#### Technical specifications:

Measurable range of valve:	DN 15-150mm
Test pressure:	0-15 MPa
Clamping force:	manual clamping
Test medium:	nitrogen ,compressed air
Dimensions of control bench:	460mmx760mmx210mm
Clamping seat:	single seat
Weight :	65KG

#### Valve size & test pressure

Valve size(DN)	Test pressure
½" to 2" NPT	15MPa
3" (DN75) flange	12.4MPa
4" (DN100) flange	4.8MPa

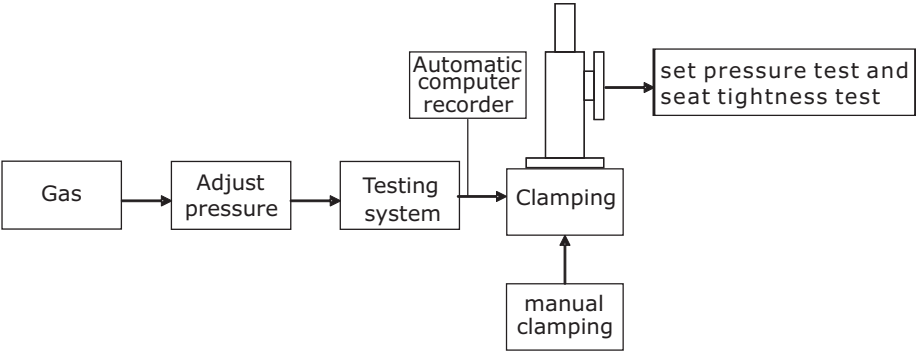
#### Ordering:

PTP — 1

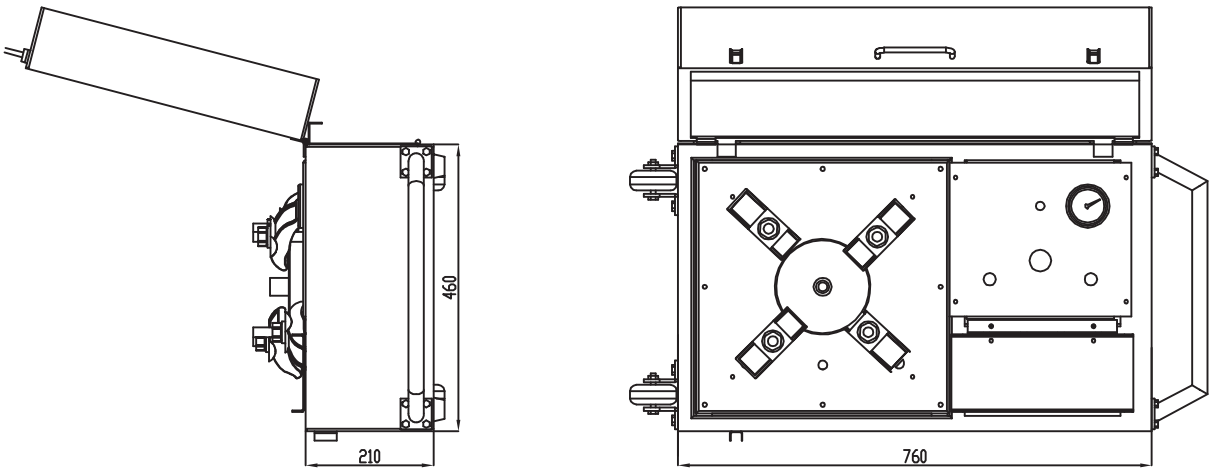
TELIDE portable test bench — Medium/low pressure ,Gas

**Please see the selection table and testing pressure table on page 20 for more details.**

Schematic diagram:



Dimensions:



## PRODUCTS

### TELIDE SRV2.0 Automatic Computer Recorder

1.The Telide Safety Relief Valve Testing software SRV2.0 has functions as follows:

- Capturing and recording the set pressure automatically
- Seat tightness pressure test
- Storing the test results in a clear database, available for future use
- Printing a full size test report
- High sampling rate
- Selectable pressure units ,MPa/psi/bar
- Selectable time period
- Easy operation ,no special computer knowledge required

### 2.AT-30 / AT-31



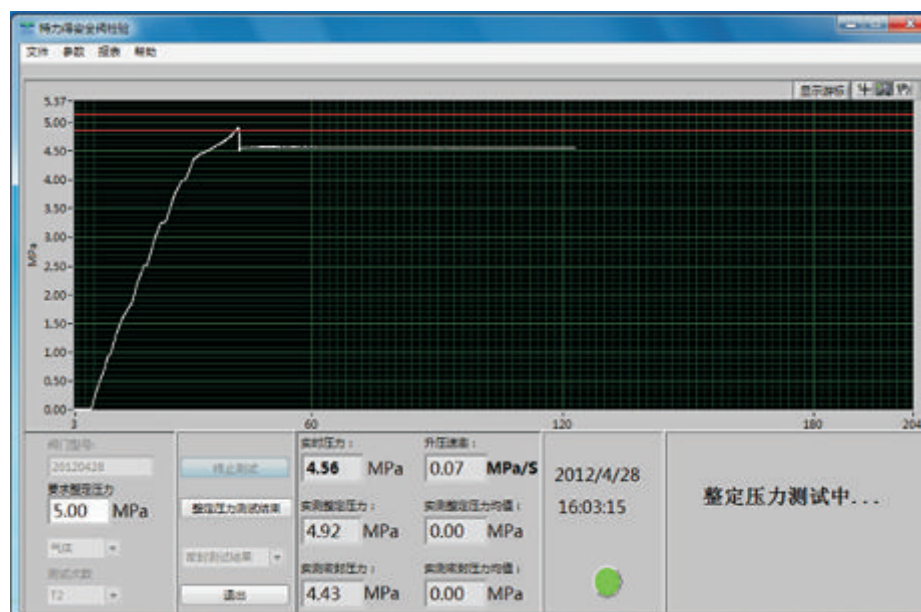
AT-30

weight : 3 kg



AT-31(portable)

### 3.Operation Interface Report



## Standard & Optional fittings

### Standard fittings:

1. a thread-flange transfer plate  $\phi 0.150\text{mm}$ , an air gun, a 3-meter length hose to connect Nitrogen gas bottle, a 5-meter low pressure hose and 2 pcs adaptor.

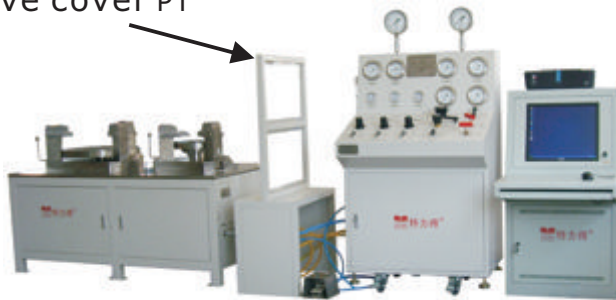
2. 4 pcs sealing pressure test panel, a 3-meter testing hose, 3 pcs test panel clip.



### Optional fittings:

1. Protective cover PT/PU

Protective cover PT



Protective cover PU



2. High Pressure Air Compressor

High pressure air compressor system can be directly used as testing source gas.

## SRV Tester Requirement Sheets

"TELIDE" Safety Relief Valve Tester Requirement Sheets  
(two pages)

NAME:	TEL:	Company:
MOBILE:	FAX:	Department:
E-Mail:	http:	

Medium: water(MPa)			
Test valve size(mm)	Test pressure (MPa)	Test valve size (mm)	Test pressure (mm)
DN15 (1/2")		DN100 (4")	
DN20 (3/4")		DN125 (5")	
DN25 (1")		DN150 (6")	
DN32 (1 1/4")		DN200 (8")	
DN40 (1 1/2")		DN250 (10")	
DN50 (2")		DN300 (12")	
DN65 (2 1/2")		DN350 (14")	
DN80 (3")		DN400 (16")	
Max. liquid test pressure MPa		Max. clamping force: Ton	

Medium: air, nitrogen gas (N2)(MPa)			
Test valve size (mm)	Test pressure (MPa)	Test valve size (mm)	Test pressure (MPa)
DN15 (1/2")		DN100 (4")	
DN20 (3/4")		DN125 (5")	
DN25 (1")		DN150 (6")	
DN32 (1 1/4")		DN200 (8")	
DN40 (1 1/2")		DN250 (10")	
DN50 (2")		DN300 (12")	
DN65 (2 1/2")		DN350 (14")	
DN80 (3")		DN400 (16")	
Max.gas test pressure: MPa		Max. clamping force: Ton	
Requirement pressure gauge unit: <input type="checkbox"/> MPa <input type="checkbox"/> bar <input type="checkbox"/> psi <input type="checkbox"/> psi/bar <input type="checkbox"/> kg/m2			

provided power supply: <input type="checkbox"/> 220VAC/50HZ <input type="checkbox"/> 380VAC/50HZ	
Driving air: Mpa	flow rate: NM3/min
Do you want a water tank:	Do you want a computer recorder:
purchasing date:	Delivery date: week
Purchasing style: <input type="checkbox"/> bargain <input type="checkbox"/> bidding	
Products used and existing problems: Main problems needs us to solve:	

(In compliance with your requests, please fill the blank and send us by Email or fax86-755-3361 1138.)



## Model Selection Table & Test Pressure and Clamping Force Look-up Table

TELIDE Safety Valve Test Bench Model Selection Table

Model	MP/LP gas	HP/MP/LP gas	HP/MP/LP liquid	HP/MP/LP gas-liquid	Large-calibre HP/MP/LP gas	Large-calibre HP/MP/LP	Portable MP/LP	Portable MP/LP gas
Parameters	TPU-3100-1	TPU-3100-3	TPU-3100-2	TPU-3100-L	TPU-3100-D	gas-liquid TPU-3100-DL	PTP-2(gas) PTP-3(liquid)	PTP-1
Pressure (PN) Mpa	0-15	0-30	0-30	Gas: 0-30、40、68 Liquid: 0-30、40、68	0-30	Gas: 0-30、40、68 Liquid: 0-30、40、68	0-30	0-15
		0-40	0-40		0-40		0-40	
		0-68	0-68		0-68		0-68	
Size (DN) mm	15-150	15-150	15-150	15-150	small: 15-200 big: 200-400	Small: 15-200 big: 200-400	15-150	15-100
	15-250	15-250	15-250	15-200				
	15-300	15-300	15-300	15-300				
	15-300/400	15-300/400	15-300/400	15-300/400				
Clamping force (FN)ton	13	13	13	13	Small: 13 OR 30, big: 40	Small: 13 OR 30, big: 40	8  Manual clamping	6  Manual clamping
	20	20	20	20				
	25	25	25	25				
	30	30	30	30				
	40	40	40	40				
clamping seat	single	single	single	single	double	double	single	single

TELIDE Safety Valve Test Bench Test Pressure and Clamping force Look-up table

Clamping force(ton) (larger clamping force is optional)	13	20	25	30	40
Valve size(mm) (larger size is optional)	Max. test pressure MPa				
DN15 (1/2")	68	68	68	68	68
DN20 ( 3/4")					
DN25 (1")					
DN32 (1 1/4")	48	68	68	68	68
DN40 (1 1/2")					
DN50(2" )					
DN65 ( 2 1/2")	23	36	44	53	68
DN80 ( 3")					
DN100(4")					
DN125 ( 5")	5	8	9.8	11.7	15
DN150(6")					
DN200 (8")					
DN250 ( 10")	1.9	3	3.6	4.3	5.5
DN300 ( 12")	1.4	2.1	2.5	3.1	3.9
DN350 ( 14")	1.1	1.6	2	2.4	2.1
DN400 (16")	0.7	1.2	1.4	1.7	2.2
DN450 (18")	0.6	1.1	1.1	1.4	1.8
DN500 (20")	0.5	0.8	0.9	1.1	1.4

## Other test equipments



Breather valve test bench



SRV Intensity test bench



Control valve & Shut-off valve test bench

## Other test equipments



Impulse Testing Equipment



Automatic hydrostatic test bench



Automatic Hydrostatic test equipment

## Other test equipments



200MPa Ultra high pressure hand pumps unit



Vehicle natural gas pressure gauge on-line test device



Pressure Sensor Test Unit



Automatic hydrostatic pressure test bench

Hereby we would like to express our sincere thanks to the following companies for using our SRV test benches(not all listed due to space limitations)

German Global

Mastpac

Eurocara

NU-SDI Union Ltd

Note: Our company reserves the right to improve the products described in the manual without notice.



MAKE FIRST CLASS PRODUCT, BUILD SERVICE IMAGE,  
CREATE INTERNATIONAL BRAND, SATISFY CUSTOMER

## Shenzhen TELIDE High Pressure Fluid Co.,Ltd.

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Export trade manager: Ben Pan