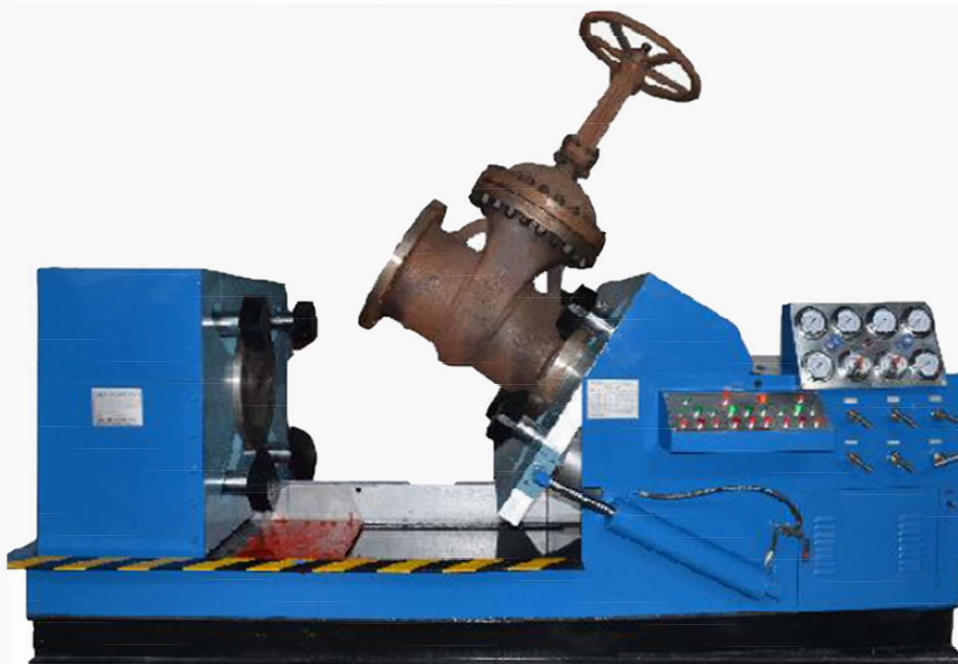


VALVE TEST BENCH

McSYS[®]



Vertical Test Bench For Safety Relief Valve

Purpose:

- ▲Testing,
- ▲(Re)adjusting the Set Pressure
- ▲Blow Down, Re-seating Pressure
- ▲Seat Tightness

Units Tested:

Spring or Pilot Operated Safety Relief Valve

Tested Unit Connection Type:

- Flanged
- Threaded(Screwed)

Applicable Standards of Testing:
API598, API527,

Equipment Advantages:

- ◆By clamping claw fixture to the valve flange, without external force to the testing,
- ◆Vertical Design, Two working tables available
- ◆Especially for Safety Relief Valve testing
- ◆With Recycle Water Tank design
- ◆Testing medium: Water, Oil, Gas, Air Nitrogen, etc
- ◆With Sprague brand or Maximator Booster Pump

Optional:

- ◆Data Management System(DMS)
- ◆Protection Shield
- ◆Containerized design available
- ◆Portable design available

Size	150	300	600	900	1500	2500
DN15-DN50						
DN65-DN200						
DN250-DN300						
DN350-DN400						



Technical Characteristics:

Sub-Model	Range	Pressure Up to	Cylinder Dia.	Max Clamping Force	Motor	Dimension (L*W*H)	Weight (KG)
YFJ-A100	DN15-DN100	4" Class 600	Φ110x2	30 ton	2.2Kw	2200*700*1600	1500KGS
YFJ-A200	DN50-DN200	8" Class 300	Φ100x3	50 ton	2.2 Kw	2300*750*1600	2800KGS
YFJ-A300	DN80-DN300	12" Class 300	Φ140x3	90 ton	2.2 Kw	2500*850*1600	3300KGS
YFJ-A300	DN15-DN100 DN80-DN300	12" Class 300	Φ110x2 Φ140x3	30/90 ton	3.0 Kw	3900*850*1700	5000KGS
YFJ-A400	DN10-DN150 DN125-DN400	16" Class 300	Φ140x3 Φ200x4	100/250Ton	3.0 Kw	4000*850*1700	6000KGS

Notes: The following models are the common standard model for selection, we can design and customize as per customers' detailed testing range.

Horizontal Valve Test Bench For Pneumatic and Hydraulic Test of Flange Ends Valves

Purpose:

- ▲ Leakage Test of Disc and Seat Interface Sealing,
- ▲ Shell Test
- ▲ Back Seat Test

Units Tested:

Gate Valve/Globe Valve/Check Valve
Ball Valve/Plug Valve/Control Valve

Tested Unit Connection Type:

-Flanged

Size/Class	150	300	600	900	1500	2500
DN15-DN50						
DN65-DN200						
DN300-DN600						
DN700-DN1000						
DN1200						

Applicable Standards of Testing:

API598,API6D,DIN EN12266,ISO5208,ASTM E1003
GOST5762,GOST9544,ANSI/FCI70-2,EN ISO 15848-2

Equipment Advantages:

- ◆ Both sides flange clamping fixture, without external force to the testing
- ◆ Easy loading and clamping by synchronized movement of clamping claws
- ◆ Left Table moveable forward and backward
- ◆ Right table can be rotated to 90 degree
- ◆ With Recycle Water Tank design
- ◆ Testing medium: Water, Oil, Gas, Air, Nitrogen etc

Optional:

- ◆ Data Management System(DMS)
- ◆ Protection Shield
- ◆ Leakage Cup/Dwyer flow meter
- ◆ Submerged water tank (YFJ-BQ)



Technical Characteristics:

Sub-Model	Test Range	Pressure Up to	Distance	Clamp travel Range	Cylinder Dia. & Qty	Max Clamping Force	Motor	Dimension (L*W*H)	Weight (KG)
YFJ-B100	DN15-DN100	4" Class600	170-700	125x50	Φ 80x3	30 ton	2.2Kw	2700*1440*1370	2100KGS
YFJ-B200	DN50-DN200	8" Class300	250-900	156x60	Φ 100x3	50 ton	2.2 Kw	3100*1600*1530	2800KGS
YFJ-B300	DN80-DN300	12" Class300	300-1100	200x75	Φ 140x3	90 ton	2.2 Kw	3200*1700*1650	3500KGS
YFJ-B400	DN150-DN400	14" Class300	400-1200	200x80	Φ 160x3	120 ton	3.0 Kw	3520*1800*1700	3500KGS
YFJ-B500	DN250-DN500	20" Class300	450-1300	225x95	Φ 160x4	160 ton	3.0 Kw	3700*1750*1550	5200KGS
YFJ-B600	DN300-DN600	24" Class300	450-1500	250x95	Φ 180x4	230 ton	5.5 Kw	4100*2060*1740	5800KGS
YFJ-B800	DN400-DN800	32" Class300	550-1650	320x105	Φ 220x4	350 ton	5.5 Kw	4500*1900*1800	9000KGS
YFJ-B1000	DN500-DN1000	40" Class150	650-1800	350x105	Φ 250x6	450 ton	5.5 Kw	4740*2740*2170	11000KGS

Notes: The following models are the common standard model for selection, we can design and customize as per customers' detailed testing range.

Horizontal Valve Test Bench For Pneumatic / Hydraulic Test of Both Flange Ends and Butt-Welding Valves

Purpose:

- ▲ Leakage Test of Disc and Seat Interface Sealing,
- ▲ Shell Test
- ▲ Back Seat Test

Units Tested:

Gate Valve/Globe Valve/Check Valve
Ball Valve/Plug Valve/Control Valve

Size/Class	150	300	600	900	1500	2500
DN15-DN50						
DN65-DN200						
DN350-DN600						
DN700-DN1000						
DN1200						

Tested Unit Connection Type:

- Flanged
- Butt Welding

Applicable Standards of Testing:

API598, API6D, DIN EN12266, ISO5208, ASTM E1003
GOST5762, GOST9544, ANSI/FCI70-2, EN ISO 15848-2

Equipment Advantages:

- ◆ Both sides pressing fixture, without external force to the testing
- ◆ Test both flange or BW ends valve, save cost
- ◆ Left Table moveable forward and backward
- ◆ Especially for high pressure testing
- ◆ With Recycle Water Tank design
- ◆ Testing medium: Water, Oil, Gas, Air, Nitrogen etc

Optional:

- ◆ Data Management System(DMS)
- ◆ Protection Shield
- ◆ Leakage Cup/Dwyer flow meter



Technical Characteristics:

Sub-Model	Range	Pressure Upt o	Distance	Cylinder Dia.	Max Clamping F orce	Mot or	Dimensl on (L*W*H)	Weight (KG)
YFJ-H50	DN15-DN50	2" Class1500	100-500	Φ80	20 ton	2.2Kw	2100*800*850	1700KGS
YFJ-H100	DN25-DN100	4" Class1500	150-650	Φ160	60 ton	2.2 Kw	2500*900*1100	2100KGS
YFJ-H200	DN50-DN200	8" Class900	230-800	Φ200	100 ton	3.0 Kw	3000*1100*1350	3500KGS
YFJ-H300	DN80-DN300	12" Class600	250-900	Φ250	150 ton	3.0 Kw	3300*1150*1500	4100KGS
YFJ-H400	DN150-DN400	16" Class600	320-1000	Φ320	230 ton	5.5 Kw	3400*1200*1600	4900KGS
YFJ-H500	DN200-DN500	20" Class300	380-1200	Φ380	320 ton	5.5 Kw	3500*1400*1700	5800KGS
YFJ-H600	DN250-DN600	24" Class300	430-1400	Φ420	400 ton	5.5 Kw	3600*1500*1800	8000KGS
YFJ-H800	DN300-DN800	32" Class150	480-1700	Φ500	550 ton	5.5 Kw	4500*1600*2300	9000KGS

Notes: The following models are the common standard model for selection, we can design and customize as per customers' detailed testing range.

Vertical Valve Test Bench For Pneumatic / Hydraulic Test of Various Ends of Industrial Valves

Purpose;

- ▲Leakage Test of Disc and Seat Interface Sealing,
- ▲Shell Test
- ▲Back Seat Test

Size	150	300	600	900	1500	2500
DN15-DN50						
DN65-DN300						
DN350-DN400						

Units Tested:

Gate Valve/Globe Valve/Check Valve
Ball Valve/Plug Valve/Control Valve

Tested Unit Connection Type:

- Flanged
- Butt Welding
- Threaded
- Socket welded

Applicable Standards of Testing:

API598,API6D,DIN EN12266,ISO5208,ASTM E1003
GOST5762,GOST9544,ANSI/FCI70-2,EN ISO 15848-2

Equipment Advantages:

- ◆One side pressing, other side clamping claw fixture, without external force to the testing
- ◆Test various ends of valves, save cost
- ◆Up beam rotated 90 degree easy for valve loading
- ◆Especially for valves below DN400 testing
- ◆With Recycle Water Tank design
- ◆Testing medium: Water, Oil, Gas, Air, Nitrogen etc

Optional:

- ◆Data Management System(DMS)
- ◆Protection Shield



Technical Characteristics:

Sub-Model	Range	Pressure Up to	Cylinder Dia.	Max Clamping Force	Motor	Dimension (L*W*H)	Weight (KG)
YFJ-L100	DN15-DN100	4" Class 600	Φ80	30 ton	2.2Kw	1710*700*1680	1700KGS
YFJ-L200	DN50-DN200	8" Class 300	Φ100	50 ton	2.2 Kw	1800*700*1780	2300KGS
YFJ-L300	DN80-DN300	12" Class 300	Φ200	100 ton	3.0 Kw	3000*1100*1350	2800KGS
YFJ-L400	DN80-DN400	16" Class 300	Φ250	150 ton	3.0 Kw	3300*1150*1500	3200KGS

Notes: The following models are the common standard model for selection, we can design and customize as per customers' detailed testing range.

McSYS® YFJ-D Series

Vertical Test Bench For Pneumatic / Hydraulic Test of Butterfly Valve, Wafer Check Valve, Knife Gate Valve.

Purpose:

- ▲ Leakage Test of Disc and Seat Interface Sealing,
- ▲ Shell Test

Units Tested:

Butterfly Valve/Wafer Check Valve /Knife Gate Valve

Tested Unit Connection Type:

- Flanged
- Butt Welding
- Wafer

Size	150	300	600
DN50-DN200			
DN250-DN500			
DN600-DN700			
DN800-DN1100			
DN1200-DN1600			

Applicable Standards of Testing:

API598, API6D, DIN EN12266, ISO5208, ASTM E1003
GOST5762, GOST9544, ANSI/FCI70-2, EN ISO 15848-2

Equipment Advantages:

- ◆ By clamping claw fixture to the sealing plates, without external force to the testing,
- ◆ Vertical Design, Two working tables available
- ◆ Especially for Butterfly Valve testing
- ◆ With Recycle Water Tank design
- ◆ Testing medium: Water, Oil, Gas, Air etc

Optional:

- ◆ Data Management System(DMS)
- ◆ Protection Shield



Technical Characteristics:

Sub-Model	Test Range	Pressure Up to	Distance	Type	Cylinder Dia. & Qty	Max Clamping Force	Motor	Dimension (L*W*H)	Weight (KG)
YFJ-D200	DN50-DN200	8" Class 300	200-400	Unitary	Φ 100x3	50 ton	2.2Kw	2000*1000*1600	2100KGS
YFJ-D300	DN80-DN300	12" Class 300	220-470	Unitary	Φ 110x3	60 ton	2.2 Kw	2100*1100*1600	2800KGS
YFJ-D400	DN150-DN400	16" Class 150	260-540	Unitary	Φ 120x3	90 ton	2.2 Kw	2200*1180*1600	3200KGS
YFJ-D500	DN200-DN500	20" Class 150	290-590	Unitary	Φ 140x4	130 ton	2.2 Kw	2300*1250*1600	4000KGS
YFJ-D600	DN250-DN600	24" Class 150	310-630	Unitary	Φ 150x4	150 ton	2.2 Kw	2500*1350*1600	4500KGS
YFJ-D800	DN350-DN800	32" Class 150	340-730	Unitary	Φ 160x4	170 ton	3.0 Kw	2800*1500*1600	5800KGS
YFJ-D1000	DN500-DN1000	40" Class 150	380-880	Unitary	Φ 160x6	250 ton	3.0 Kw	3000*1800*1700	9000KGS
YFJ-D1200	DN600-DN1200	48" Class 150	410-960	Separate	Φ 180x6	350 ton	5.5 Kw	3400*2100*1700	11000KGS
YFJ-D1600	DN800-DN1600	64" Class 150	550-1200	Separate	Φ 200x6	420 ton	5.5 Kw	3680*3700*1970	14000KGS
YFJ-D2000	DN600-DN2000	80" PN10	520-920 770-1300	Separate	Φ 250x6 Φ 260x6	660Ton 830Ton	5.5KW	7450*6150*2400	31800KGS

Notes: The following models are the common standard model for selection, we can design and customize as per customers' detailed testing range.

- ※ Equipment high reliability
- ※ Mature technical solution
- ※ Guaranteed order completion
- ※ Maintenance of 12months, and post warranty services.
- ※ Each equipment is supplied with spare parts, tools, accessories
- ※ Training, Installation, Commissioning available based on chargeable services

