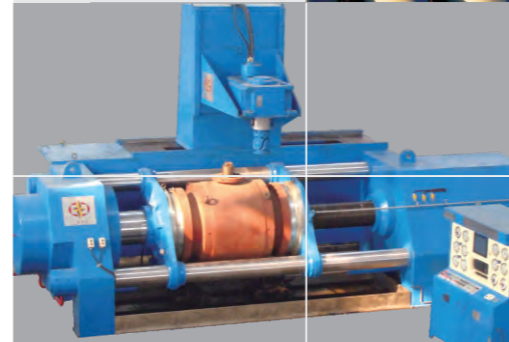
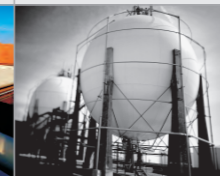




阀门性能试验设备

SHANGHAI ZENGXIN
ELECTROMECHANIC EQUIPMENT CO., LTD.



VALVE
PRESSURE
TEST BENCH

SHANGHAI ZENGXIN

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增百川之势
欣恒久伟业

>> 企业简介 BRIEF INTRODUCTION

上海增欣机电设备制造有限公司，是一家专业研发生产各类阀门检测设备的民营企业，地处上海市嘉定区外冈镇工业园一区，公司现有员工近100余人，其中工程技术人员10名。公司占地面积1万多平方米。公司的主要产品为阀门检测设备、阀门流阻系数测试系统、阀门寿命试验设备、阀门启闭扭矩测试设备、阀门密封面研磨设备等阀门检测和生产所必备的相关专用设备。

产品销售市场覆盖全国各地，并远销美国、德国、英国、法国、俄罗斯、加拿大、韩国、以色列、新加坡、伊朗、阿根廷等几十个国家和地区。

2010年，公司荣获“上海市高新技术企业”、“上海市科技创新企业”等称号，2011年又列入上海市市级和国家级的创新基金项目。公司现已取得国家实用新型专利15项，发明专利2项。公司自创立以来紧跟市场发展的脉搏，产销两旺、飞速发展，在本行业内，无论是研发能力、技术水准还是生产规模等方面，已处于领先地位，是行业的领跑企业。

近年来，随着国民经济的腾飞和科学技术的飞速发展，阀门行业的整体水平大为提升，口径越来越大，压力越来越高，要求越来越严，这对我们阀门检测设备制造行业来说，既是新的挑战，更是企业进步和发展的极好机遇。我们精心培育人才队伍，加大技术研发投入，竭尽全力地为我们阀门行业提供各类技术先进、品质优良的阀门检测设备和满意的服务。

Shanghai Zengxin Machine & Electron Co., Ltd, located in Industry Zone No.1, Waigang Town, Jiading District, Shanghai, is a private enterprise specialized in production of various valve testing equipment. The company established in 2001, with lands covering 10000m². We have about 100 staffs in total, 10 of which are engineers. Our main products are valve test bench, flow resistance coefficient test system, Valve life test bench and valve open & close torque test bench and valve sealing surface lapping machine.

The company products sales cover all over China and the United States, Germany, England, France, Russia, Canada, South Korea, Israel, Singapore, Iran, Argentina and over 20 countries.

In 2010, our company was awarded the title of "Shanghai High-tech Enterprises" and "Shanghai Science and Technology Innovation Enterprise", in 2011 our company was listed in Shanghai municipal and national innovation fund project. We have got 15 national utility model patents and 2 patents for invention. Our company has been keeping up with the pulse of the development of market, sales booming, rapid development, has a leading position in research and development capabilities, technical standards, and the scale of production in our industry.

With the rapid development of national economy and science and technology recently, the overall level of the valve industry has been improved greatly, size becomes bigger and bigger and pressure higher and higher, which is both new challenge and excellent opportunity for the progress and development of enterprises. We carefully nurtured talents and increase investment of technical research & development and make every effort to provide all kinds of advanced technology, high quality valve testing equipment and satisfactory service for our valve industry.





公司董事長

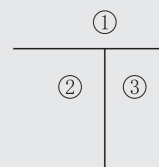
胡增洪



The company president Hu Zenghong

- 上海市高新技术企业
- 通过 ISO 9001:2000 国际质量体系认证
- 中国通用机械工业协会阀门分会 理事
- 中国机械工程学会流体工程学会 会员
- 中国石油和石化设备工业协会 会员

- Shanghai High-tech Enterprise
- Through ISO 9001:2000 International Quality System Certification
- China General Machinery Industry Association valve branch Director
- Chinese Mechanical Engineering Society Fluid Engineering Society Member
- China Petroleum and Petrochemical Equipment Industry Association Member



• 图示

- ① 公司董事长胡增洪随习近平副主席访问爱尔兰
The company president Hu Zenghong followed Vice President Xi Jinping to visit Ireland
- ② 公司董事长胡增洪与协会领导展会合影
The company president Hu Zenghong had a photo with association leader during the exhibition
- ③ 公司董事长胡增洪会见中国驻比利时大使
The company president Hu Zenghong met with Chinese ambassador to Belgium

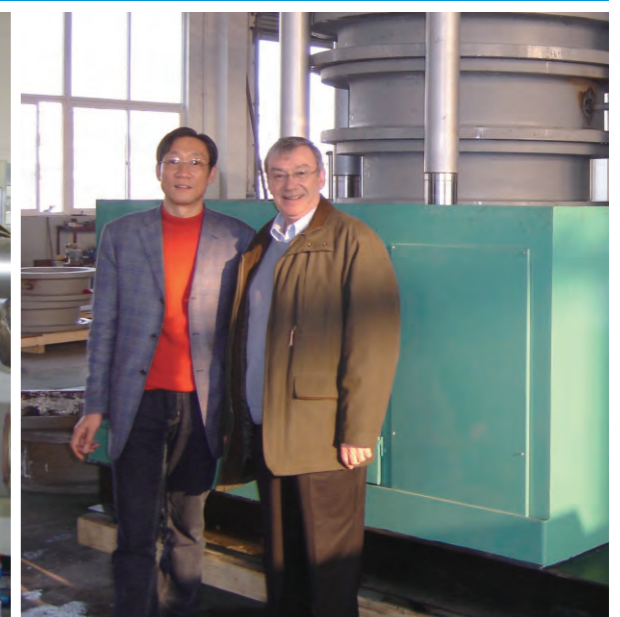


**3200吨全球最大阀门
试验台竣工仪式 >>**
3200 tons of the world's largest valve Test completion ceremony



与外商洽谈业务 >>
With foreign business negotiations

ZENGXINEM



COMPANY HONOR

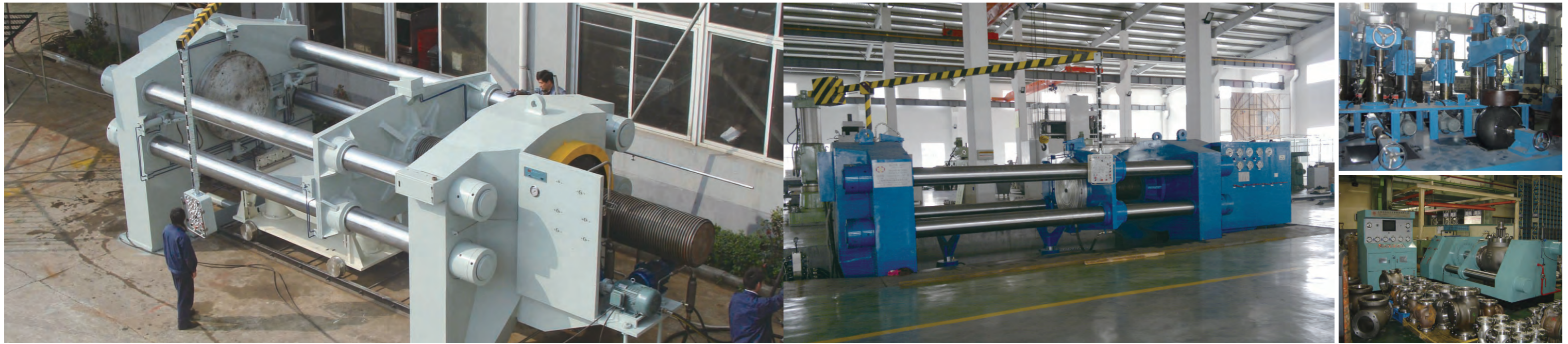
企业荣誉 >> SHANGHAIZENGXINEM

专利证书 >> PATENT CERTIFICATE

This section displays a collection of honor certificates and membership cards. Key items include:

- 上海市重点新产品证书** (Shanghai Key New Product Certificate) for the YFB-D1400 valve.
- 高新技术企业证书** (High-tech Enterprise Certificate).
- 会员证** (Membership Card) from the China Valve Industry Association.
- 团体会员证书** (Group Membership Certificate) from the Shanghai Mechanical Engineering Society.
- 中国阀门第六届理事会理事** (Director of the 6th China Valve Industry Association Council).
- 质量管理体系认证证书** (Quality Management System Certification) from Beijing Hangkai Certification Center.
- CPEIA 证书** (Certificate) from the China Petroleum and Chemical Industry Association.
- 理事证** (Director Certificate) from the Shanghai Zengxin Mechanical & Electrical Equipment Manufacturing Co., Ltd.
- 聘书** (Appointment Letter) for Mr. Zeng Hong as a committee member.
- 荣誉证书** (Honor Certificate) for the company's production cooperation project.
- 上海市重点新产品证书** (Shanghai Key New Product Certificate) for the YFB-D1400 valve.
- 上海市高新技术成果转化项目证书** (Shanghai High-tech Conversion Project Certificate).

This section displays a grid of patent certificates, primarily for utility models (实用新型专利证书) and one invention patent (发明专利证书). The certificates are issued by the State Intellectual Property Administration (SIPO) and feature the company's name and the patent holder's name, Mr. Bai Pu.



Products on the part of the user field use
产品在部分用户的现场使用 >>

P 生产现场 >>
roduction site





公司部分产品集锦

Part of Company's Products


YFB-DL/48" 900LB型	>>	YFB-DL/48" 900LB型	>>
	(最大承压力3200吨) 全球最大阀门试验台雄姿 YFB-DL/48" 900LB model (the max. top pressure 3200 tons) The world's largest valve test bench majestic		(最大承压力3200吨) 全球最大阀门试验台生产现场 YFB-DL/48" 900LB model (the max. top pressure 3200 tons) The world's largest valve test bench production site

YFB-DL/48" 900LB型	>>	YFB-DF/3000型	>>
	(最大承压力3200吨) 全球最大阀门试验台用户现场 YFB-DL/48" 900LB model (the max. top pressure 3200 tons) The world's largest valve test bench user site		(最大通径DN3000)蝶阀试验台发运客户 YFB-DF/3000 model (the max. DN3000) Butterfly valve test bench sent to customer

YFB-DYL/N/C40" 600LB型	>>	YFB-DF/3000型	>>
	带扭矩测试、带伺服系统液压+螺杆顶压式阀门试验台 YFB-DYL/N/C40" 600LB model Hydraulic top screw valve test bench (with torque test & servo system)		(最大通径DN3000)蝶阀试验台现场调试 YFB-DF/3000 model (the max. DN3000) Butterfly valve test bench site commissioning

YFB-/Y300型	>>	YFB-/L/YT300型	>>
	全自动一键通阀门试验台 YFB-/Y300 model One key full automatic valve test bench		带移动工作台液压抱压立式阀门试验台 YFB-/L/YT300 model (Vertical) Hydraulic hold pressure valve test bench (with moveable work table)

YFB-SM/200型	>>	YFB-/P200型	>>
	液压抱压式阀门寿命试验台 YFB-SM/200 model Hydraulic hold pressure valve life test bench		带触摸屏液压抱压式阀门试验台 YFB-/P200 model Hydraulic hold pressure valve test bench (with touch screen)

YFB-A/200型	>>	YFB-6A/P/M4-1/16"型	>>
	安全阀试验台 YFB-A/200 model Safety valve test bench		带触摸屏、带安全门液压抱压式6A阀门试验台 YFB-6A/P/M4-1/16" model Hydraulic hold pressure 6A valve test bench (with touch screen & safety door)

YFB-6ALY/P/M4-1/16"型	>>	YFB-QS/300型	>>
	带触摸屏、带安全门液压立式6A阀门试验台 YFB-6ALY/P/M4-1/16" model Hydraulic vertical 6A valve test bench (with touch screen & safety door)		液压抱压潜水式阀门试验台 YFB-QS/300 model (Submerged) Hydraulic hold pressure valve test bench

YFB-TY/(2) 300型 (一套二)	>>	YFB-LY/(4) 100型	>>
	两工位液压套式阀门试验台 YFB-TY/(2) 300 model (a set of two) (Double head) Hydraulic valve test bench (2 stations)		四工位液压立式阀门试验台 YFB-LY/(4) 100 model Hydraulic valve test bench (4 stations)

YFB-ZDX/250型	>>	YFB-XM/2000型	>>
	阀门检测自动线 YFB-ZDX/250 model valve test automatic line		行星研磨机 YFB-XM/2000 model Planet lapping machine

YFB-QM/(6) 300型	>>	YFB-ZM/300型	>>
	六工位球体研磨机 YFB-QM/(6) 300 model Ball lapping machine (6 stations)		YFB-ZM/300型 阀座研磨机 YFB-ZM/300 model Seat ring lapping machine

YFB系列阀门检测设备/密封面研磨设备

主要功能简介

抱压式阀门装夹型式 Hold Pressure Valve Clamping Type

由液压驱动夹爪，将盲板抱紧于阀门的法兰端面进行测试的装夹方式，适用于法兰连接型式的阀门测试。(见附图1)

Hydraulic drive clamp claw to hold blind flange at the end of valve flange to have a test, it is suitable for flanged end valves.(refer to figure 1)

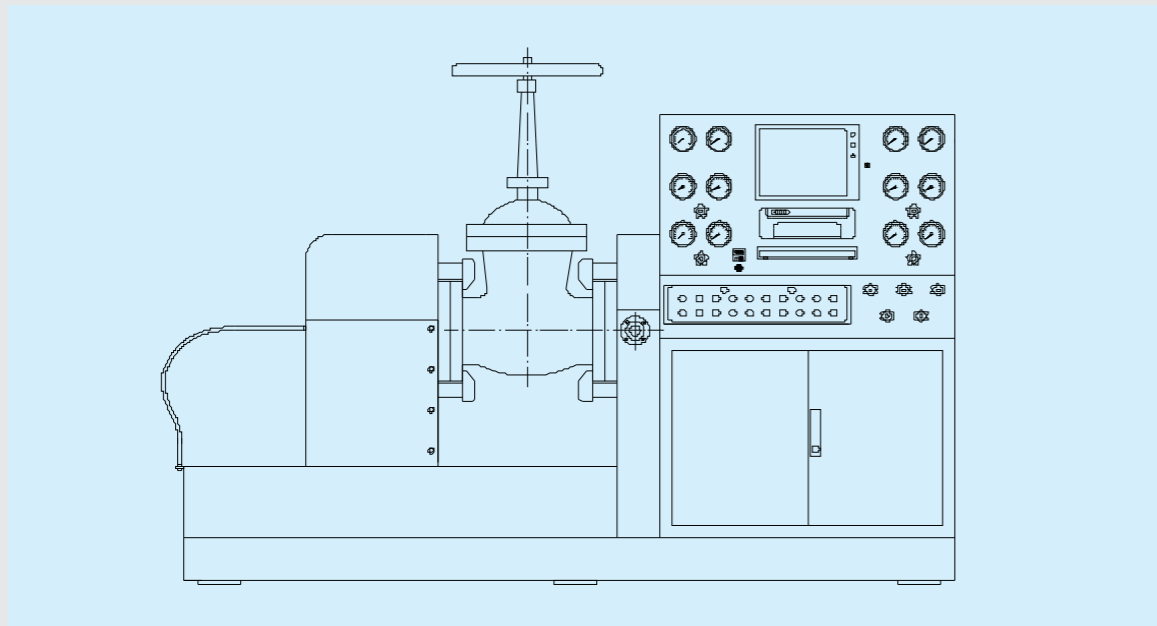


图1
figure 1

顶压式阀门装夹型式 Top Pressure Valve Clamping Type

由液压驱动或由螺杆驱动的方式，将盲板（或内通道堵头）顶紧阀门的端面进行测试的装夹方式，适用于法兰连接和焊接坡口连接型式的阀门测试。(见附图2)

Hydraulic or screw drive to press blind flange(or inner channel plug) at the end of valve to have a test, it is suitable for flanged end and welded groove type valves.(refer to figure 2)

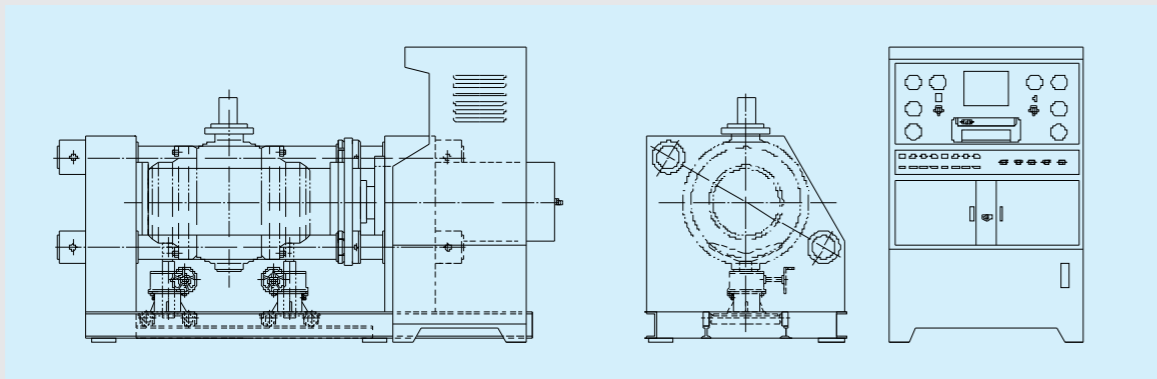


图2
figure 2

液压驱动型式 Hydraulic Driving Type

以油泵产生的液压动力，驱动油缸或油马达，实现传动机构的运动，从而达到所需的机械作用（顶力、拉力或扭矩）。

Hydraulic power got by oil pump drive oil cylinder or oil motor to rotate, so as to get required mechanical action (top press force, pulling force or torque)

螺杆驱动型式 Screw Driving Type

顶压机构的运动，由电机经磁粉离合器、减速机和齿轮副，传动至螺杆螺母副顶压机构。螺杆螺母副顶压机构的运动有快进、慢进和快退功能。当盲板按设定的预顶紧力顶紧阀门时，顶压螺杆系统自动停止。顶压螺杆对阀门预顶紧力的控制，是通过设定磁粉离合器的激磁电流的大小来实现的，操作十分方便，性能可靠。该系统使被测阀门和螺杆螺母副顶压机构不受到过负荷损伤。激磁电流的大小在出厂时已调定，在维护修理设备时，可开启“磁粉离合器”控制仪的盒盖，对螺杆前进和后退的激磁电流进行调整。

螺杆驱动型式的顶压式阀门试验台，适用于阀门两端采用内通道密封的型式，若要进行法兰平面密封或焊接坡口的密封型式，需选配“自举缸系统”。

The movement of top pressure device from motor through clutch, reducer and gears is transferred to vice-top screw nut body. The movement of vice-top screw nut body has the function of fast forward, slow forward and rewind. When blind flange pressing valve according to set pre-top pressing power, top screw system stop automatically. Top screw control pre-top pressing power to valve by setting magnetizing current of magnetic clutch and very convenient and reliable operation. The system makes test valve and vice-top screw body nut not to be damaged due to overload. The magnetizing current will be adjusted before leaving factory, when maintaining equipment, you can start "magnetic clutch" and adjust magnetizing current of screw forward and backward.

Top screw valve test bench is suitable for inner tunnel sealing type valves, if you test flanged plane sealing and welded groove type valves, you need to choose "bootstrap tank system".

套式型式 Double Head Type

多个阀门检测工位，共用一套控制系统的型式。立式阀门试验台、套式阀门试验台和蝶阀试验台可选配套式型式。

A control system control multiple valve testing stations. Vertical valve test bench, double head valve test bench and butterfly valve test bench can choose double head type.

液压自动卸荷系统 Hydraulic Automatic Discharge System

设备工作在待机状态时，整个液压系统自动泄荷，当要进行某项液压动作时，系统的压力自动恢复到正常值。该装置大大地降低了油温和能耗，有效地延长了油泵、电机和液压元件的使用寿命。

该系统为标配。

When being ready state, the whole hydraulic system discharge automatically, when working, system pressure returns to normal value. The device reduces oil temperature and energy consumption, and prolong the life of oil pump, motor and hydraulic parts.

The system is as standard configuration.

试验介质加压、保压计时自动控制系统

Test Medium Pressurizing, Pressure-keeping & Timing Auto Control System

低压水泵启动向阀门内腔注满水后会停止，高压水泵会自动启动加压，当试验介质达到要求的压力值时，高压水泵自动停止，系统自动进入保压计时状态，保压计时结束时，报警器发出蜂鸣声和闪光提示，以示保压计时结束。

该系统为标配。

Start LP water pump to fill test media in the body of valve, after LP media is filled, HP water pump starts automatically and fill high-pressure water, the pressure arrives at set pressure value, HP water pump stop automatically and enter pressure-keeping timing status. when timer is over, the alarm starts working.

The system is as standard configuration.

内通道密封型 Inner Tunnel Sealing Type

在被测阀门两端加工出一小段工艺内孔，用带有密封件的堵头，塞在阀门的两端内孔中进行密封的型式。是螺杆驱动顶压式阀门试验台的基本密封型式（液压驱动顶压式阀门试验台也可采用此密封型式）。(见附图 3)

Process inner hole at both ends of test valve, put seal plug in the hole of both ends of valve to have test. This is basic sealing type for top screw valve test bench (top cylinder valve test bench also can adopt this kind of sealing type). (refer to figure 3)

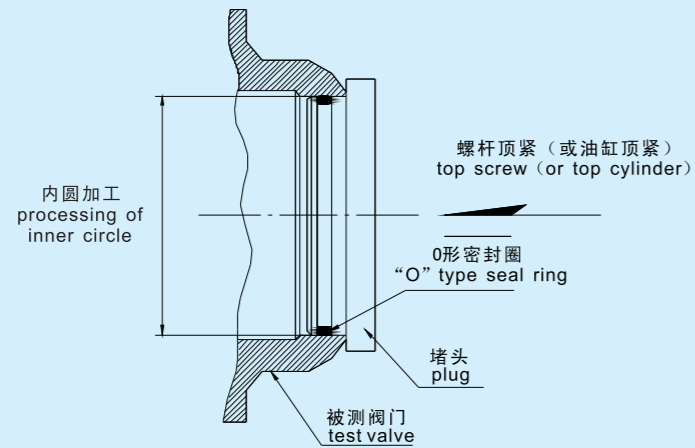


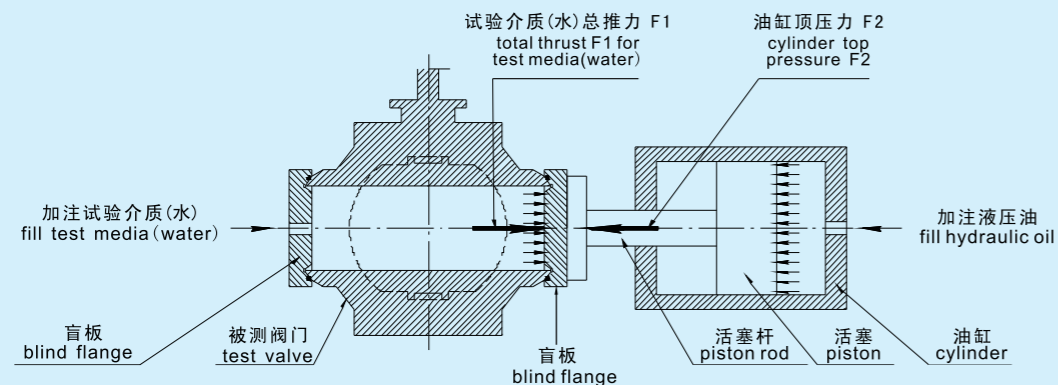
图 3
figure 3

伺服系统 Servo System

“触摸屏 + PLC” 电脑智能控制系统中的“伺服控制”模块，能自动根据被测阀门的口径和压力等级以及试验项目，自动控制检测项目所需的油压顶紧力和自动控制试验介质的压力，并能控制油压总作用力（顶压力 F2）和水压总作用力（总推力 F1）按照设定的比值（该比值由用户按自身的工艺特点和要求设定，并有密钥管理权限控制），同步加压和同步卸压，使得作用在阀门上的“净压力”控制在一个很小的范围内，避免被测阀门受到过大的挤压力，大大地提高了检测结果的可靠性。（见附图 4）

液压顶压式阀门试验台可选配该功能。

"Servo control" module of "Touch screen + PLC" intelligent control system can control required oil pressure top pressure and test medium pressure automatically according to valve nominal diameter and pressure, also can control the total hydraulic force (top pressure) and total water pressure force (total thrust) according to set ratio (The ratio is set on customer request and has key management authority control), synchronously pressurizing and relieving keep "net pressure" on the valve in a very small range to avoid too large extrusion pressure on the valve, improve the reliability of test results greatly. (refer to figure 4)
Top press valve test bench can choose the function.



伺服系统功能：自动控制试验介质(水)和液压油的同时加注和同时泄放，使得 F2 / F1 = 设定的比值(可调)
Servo system function: control synchronous filling and discharge of test media (water) and hydraulic oil automatically, keep F2 / F1 = set ratio (adjustable)

图 4
figure 4

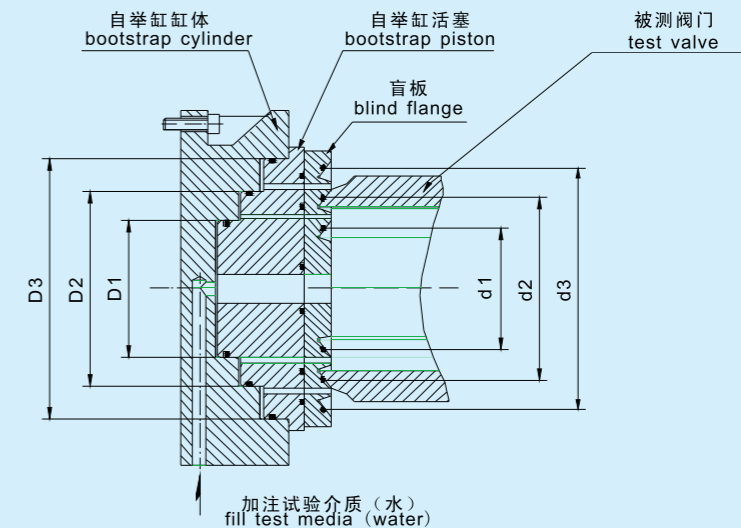
自举缸系统 Bootstrap Tank System

螺杆驱动型式的顶压式阀门试验台，其阀门两端的密封型式为内通道密封，若要采用法兰平面密封或焊接坡口的密封型式，需选配“自举缸系统”。

“自举缸系统”由梯田台阶式缸体和活塞组成，缸体内腔与被测阀门内腔相通，活塞的端面安装盲板。阀门测试时，先将“自举顶缸”（盲板）预顶紧被测阀门的端面，再向阀门内腔内注入试验介质（水），随着试验介质压力的变化，“自举顶缸”系统将按一定的倍率，自动地产生一个推力，将盲板推向阀门端面，以达到密封效果。由于“自举顶缸”系统的推力是随试验介质压力的大小而变化的，测试时，阀门受到的“净挤压力”，为“自举顶缸”系统的推力与阀门试验介质作用力的差值，此差值很小，对阀门测试的影响可忽略不计。（见附图 5）

Top screw valve test bench is suitable for inner tunnel sealing type valves, if you need to test flanged plane sealing and welded groove type valves, you need to choose "bootstrap tank system".

"Bootstrap tank" system is made up of terraced stepped cylinder and piston, blind flange is equipped at the end of valve. When testing valve, pre-top press "bootstrap tank" (blind flange) at the end of valve, fill test medium in the body of valve, "bootstrap tank" will generate thrust to push blind flange at the end of valve to achieve sealing effect according to a certain magnification and test medium pressure. The thrust of "bootstrap tank" system. Since the thrust of "bootstrap tank" system varies with test medium pressure, when testing, "net extrusion pressure" on the valve is the difference between thrust of "bootstrap tank" system and valve test medium force, the difference is very small, almost no force affects testing valve. (refer to figure 5)



附图5中：D3面积/d3面积≈D2面积/d2面积≈D1面积/d1面积=常数。
Figure 5: D3 area/d3 area ≈ D2 area/d2 area ≈ D1 area/d1 area = constant

图 5
figure 5

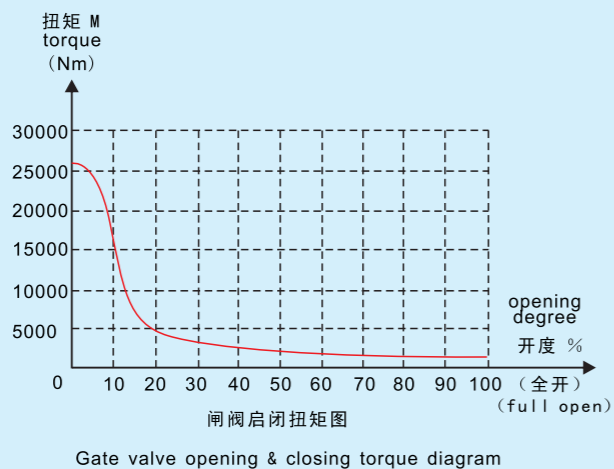
扭矩测试系统 Torque Testing System

该装置以液压系统为动力，驱动液压马达产生扭矩，通过减速机、扭矩传感器和万向节传动杆，将扭矩传至被测阀门。被测阀门带压关闭或带压开启时，阀门启闭的扭矩值和阀杆转动的角位移值（或转动的圈数），由扭矩传感器和角位移传感器检出信号，传至“触摸屏电脑”控制系统，系统实时地将检测全过程的扭矩值及角位移值（或开度），以数值和图象的型式，显示和储存在系统中，通过关键字，可检索、查阅和打印扭矩检测的数据和图象。（见附图 6）

液压抱压式、液压顶压式和螺杆顶压式阀门试验台，均可选配该系统。

The device drives hydraulic motor to generate torque by hydraulic system and the torque is transferred to test valve through reducer, torque sensor and gimbal transmission lever. When valve open or close with pressure, valve opening and closing torque value and stem rotation angular displacement value (or number of turns) is transferred to "touch screen computer" control system through torque sensor and angular displacement sensor detection signal, the system will real-time display and save torque value and angular displacement value (or opening) in the form of data and image during testing process, you can retrieve, consult and print out data and image of torque detection by keyword.

Hydraulic hold pressure, top cylinder and top screw valve test bench can choose the system. (refer to figure 6)



(图6)
figure6)

阀门寿命试验系统 Valve Life Testing System

该系统由“工业用触摸屏电脑”、“压力传感器”、“扭矩传感器”、“角位移传感器”、“PLC”、“转换模块”、“开关电源”、“报表打印机”等硬件和“工控组态软件”构成。

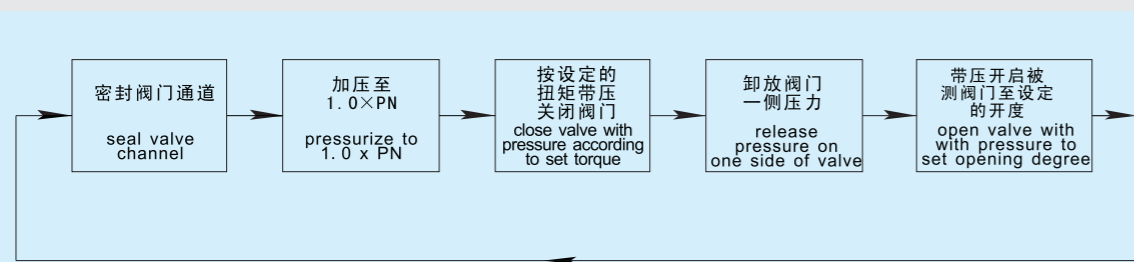
系统以液压为动力，驱动液压马达产生扭矩，通过减速机、扭矩传感器、万向节传动杆和扳爪，将扭矩传至被测阀门。系统按设定的程序：“密封阀门通道→加压至 $1.0 \times PN$ →按设定的扭矩带压关闭阀门→卸放阀门一侧的压力→带压开启阀门至设定的开度……”自动循环进行阀门寿命试验（见附图7）。系统对阀门开启和关闭到位的控制，可任选“扭矩控制”、“行程位置控制”、“扭矩控制+行程位置控制”中的任一种型式（部分阀门类型的关闭到位控制只能选“扭矩控制”的型式）。

系统实时地监测试验过程中的各项数据，显示并保存在系统中。通过对关键字（如检验单编号）的检索，可十分方便地查阅、检索和打印历史检测数据资料（包括曲线图形资料），也为后续的质量问题追溯提供了条件。检测数据也可导出到Excel，便于客户实现ERP管理。通过“USB”接口或通过网线，可将检测数据资料输出。

The system is made up of "industrial touch screen computer", "pressure sensor", "torque sensor", "angular displacement sensor", "PLC", "conversion module", "switch power", "printer" and "industrial control configuration software".

The system drives hydraulic motor to generate torque which is transferred to test valve through reducer, torque sensor, gimbal transmission rod and claw. The system can have the following automatic cycle life test on valve with pressure: "valve pressurize → close with pressure → one end discharge, sealing pair with full pressure → open valve with pressure → valve pressurize ……". You can choose any type of "torque control", "stroke position control" and "torque control+ stroke position control to control valve opening and closing in the system (you only can choose "torque control" to control some valves closing).

The system real-time monitor all datas during testing process, display and save it in the system. You can be access, retrieve and print out historical testing data (including curve graphical data) by keyword, provided the conditions for subsequent quality issues retrospective. Testing data can be exported to Excel and realize ERP management for customer. Testing data can be output through "USB" interface or network cable.



阀门寿命试验的循环动作
Cycle action of valve life test

图7
figure7

“触摸屏”监测系统 “Touch Screen” Monitoring System

“触摸屏”监测系统由“工业用触摸屏电脑”、“压力传感器”、“转换模块”、“开关电源”、“报表打印机”等硬件和“工控组态软件”构成。该系统能实现测试阀门的名称、型号规格、检验单编号、检验员编号、测试标准、测试日期、测试介质、测试压力、保压时间等参数的登录、记录和打印。

根据客户检验标准的规定要求，分别选择进行“上密封试验”、“壳体试验”、“高压水密封试验”和“低压气密封试验”项目。试验过程中，“触摸屏”监测系统将各试验项目过程中的试验压力和保压时间，以数字和图形曲线的型式记录在系统中。

“触摸屏”监测控制系统中保存的数据，通过对关键字（如检验单编号）的检索，可十分方便地查阅、检索和打印历史检测数据资料，也为后续的质量问题追溯提供了条件。检测数据也可导出到Excel。通过“USB”接口或通过网线，可将检测数据资料输出。触摸屏操作界面，(见附图8)

"Touch screen" monitoring system is made up of "industrial touch screen computer", "pressure sensor", "conversion module", "switch power", "printer" and "industrial control configuration software". The system can login, record and print out parameters of test valve name, model, inspection sheet number, inspector number, test standard, test media, test pressure and pressure-keeping time.

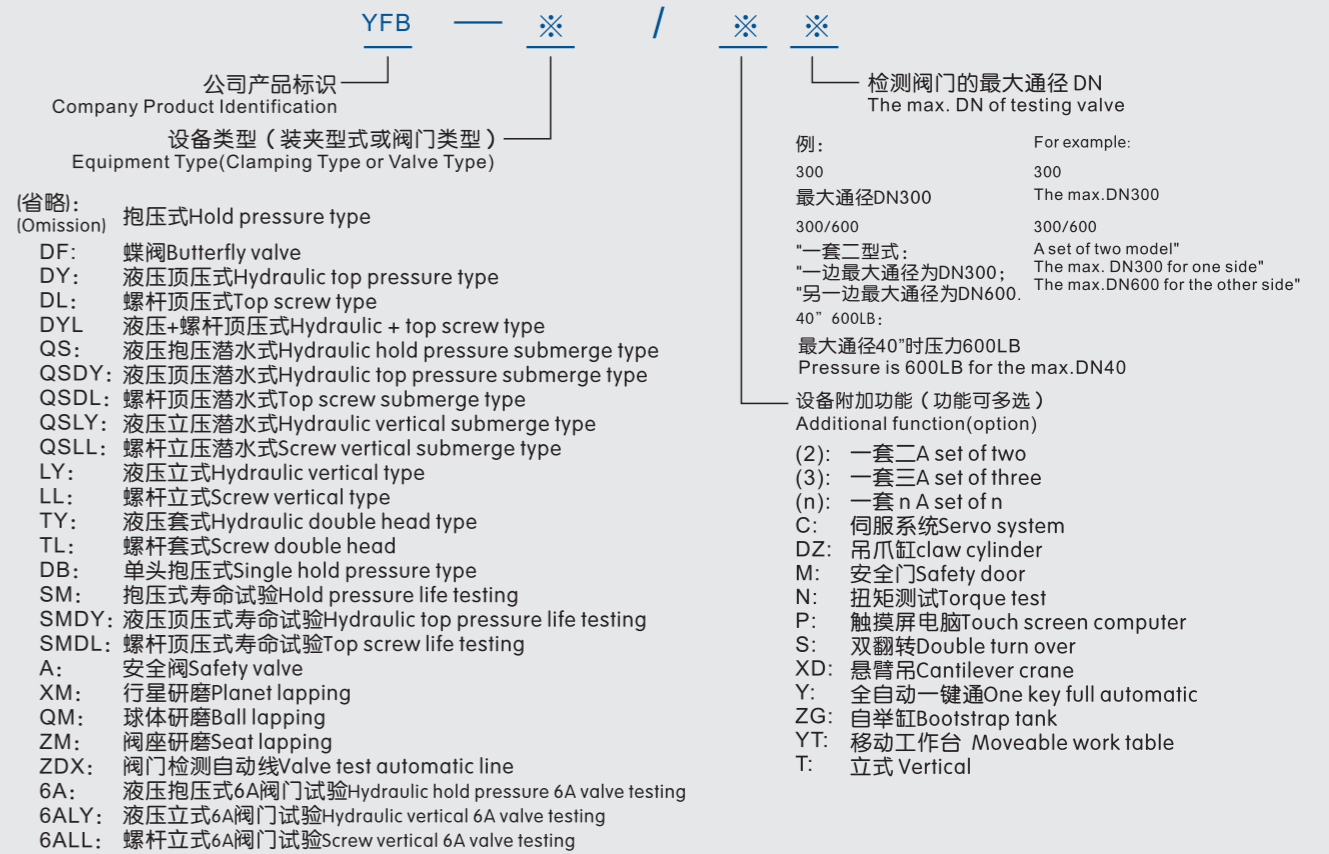
You can select item of "back seal test", "shell test", "HP water seal test" and "LP air seal test" according to your requirement. "touch screen" monitoring system can record test pressure and pressure-keeping time in digital and image curve.

The system monitor all datas during testing process, display and save it in the system. You can be easy access, retrieve and print out historical testing data (including curve graphical data) by keyword, provided the conditions for subsequent quality issues retrospective. Testing data can be exported to Excel. Testing data can be output through "USB" interface or network cable. Touch screen interface, (refer to figure 8)

图8
figure8

产品型号命名规则

Product Model Naming Rules



“一键通”阀门自动检测系统 “One key through”Valve Automatic Testing System

该系统是在普通阀门试验台的基础上添加“触摸屏+PLC电脑智能系统”而成。该系统由“工业用触摸屏电脑”、“PLC”、“压力传感器”、“网络视频服务器”、“高清晰度摄像头”、“转换模块”、“开关电源”、“报表打印机”等硬件和“工控组态软件”构成。

该系统除具有“触摸屏”监测系统的所有功能外，还能对阀门检测过程中的液压夹紧、介质加压、保压计时等物理量和试验过程，进行自动程序控制，技术先进，自动化程度高。用户可根据需要选配该系统。

The system is to add "touch screen + PLC computer intelligence system" on the basis of the common valve test bench and made up of "industrial touch screen computer", "PLC", "pressure sensor", "network video server", "high definition camera", "conversion module", "switch power", "printer" and "industrial control configuration software".

In addition to all the functions of the "touch screen" monitoring system ,the system can also have automatic program control on physical quantities of hydraulic clamping、media pressurizing and pressure-keeping & timing during test process, advanced technology and high automation. Customer can choose the system.

行星研磨机 Planet Lapping Machine

该设备用于阀瓣密封面、阀座圈密封面的研磨加工。研磨时，大磨盘作低速旋转运动，大磨盘上配置有2~4个驱动环，驱动环在固定的位置作同向的低速转动，工件放置在驱动环内，在摩擦力的作用下，工件在驱动环内作既有公转、又有自转的运动，从而达到理想的研磨效果。

It is suitable to lap seating surface of gate and seat ring. When lapping, big lapping table rotates in low speed, 2~4 drive rings on the big lapping table make low speed rotation in fixed position to the same direction, workpiece in the drive rings makes not only revolution but also rotation by friction force to achieve ideal lapping effect.

球体研磨机 Ball Lapping Machine

该设备用于球体外表面的研磨和阀座与球体的对研。球体用芯轴装夹，芯轴的两端用顶尖定位，球体绕水平芯轴转动，转速为无级调速。磨盘置于球体上方，绕垂直轴线作偏心轨迹转动（类似于呼啦圈的运动），转速为无级调速。用专用夹具将阀座取代磨盘，即可实现阀座与球体的对研。

It is suitable to lap the spherical surface of balls. Ball clamped by core shaft which is positioned by thimble rotates around horizontal core shaft and the speed is steplessly controlled. Lapping table above ball make eccentric orbit rotation around vertical shaft, and the speed is steplessly controlled. You can realize seat ring and ball grinding by replacing lapping table with seat ring with special fixture.

阀座研磨机 Seat Ring Lapping Machine

该设备用于阀体上阀座密封面的研磨加工。研磨时，阀体由液压夹爪夹紧在角度可调的工作台上，磨盘绕垂直于阀座密封面的轴线作偏心的转动，转速为无级调速。

It is suitable to lap seating surface of seat ring on the valve body. When lapping, body is clamped on the adjustable work table by hydraulic claw, lapping table make eccentric rotation around axis vertical to seating surface of seat ring and the speed is steplessly controlled.

型号举例：Example:	
YFB - /1200:	液压抱压式阀门试验台，最大阀门通径DN1200 Hydraulic hold pressure valve test bench, the max.valve DN1200
YFB - /S/P/XD600:	双翻转、带触摸屏、带吊臂液压抱压式阀门试验台，最大阀门通径DN600 Hydraulic hold pressure valve test bench with touch screen、double turn over and arm, the max.valve DN600
YFB - DF/3600:	蝶阀液压阀门试验台，最大阀门通径DN3600 Hydraulic butterfly valve test bench, the max.valve DN3600
YFB - DF/300/600:	一套二蝶阀液压阀门试验台，最大阀门通径DN300/DN600 Hydraulic butterfly valve test bench(double head), the max.valve DN300/DN600
YFB - DY/C1400:	带伺服系统液压顶压式阀门试验台，最大阀门通径DN1400 Hydraulic top pressure valve test bench with servo system, the max.valve DN1400
YFB - DL/1200:	螺杆顶压式阀门试验台，最大阀门通径DN1200 Top screw valve test bench, the max. valve Dn1200
YFB - DYL/N/C1000:	带扭矩测试、带伺服系统，液压+螺杆顶压式阀门试验台，最大阀门通径DN1000 Hydraulic top screw valve test bench(with torque test and servo system), the max.valve DN1000
YFB - QS/800:	液压抱压潜水式阀门试验台，阀门通径DN800 Hydraulic hold pressure submerge valve test bench, the max.valve DN800
YFB - SM/600:	液压抱压式阀门寿命试验台，最大阀门通径DN600 Hydraulic hold pressure valve life test bench, the max.valve DN600
YFB - LY/(2)200:	一套二立式液压阀门试验台，两工位最大阀门通径DN200 Hydraulic vertical valve test bench(double head), the max. valve DN200
YFB-DB/DZ/XD300:	液压单头抱压式带吊爪、带悬臂吊阀门试验台，阀门通径DN300 Hydraulic single hold pressure valve test bench(with claw and cantilever crane), the max. valve DN300
YFB - A/P300:	带触摸屏安全阀试验台，阀门通径DN300 Safety valve test bench(with touch screen), the max.valve DN300
YFB - QM/300:	球阀球体研磨机，球体通径DN300 DN300Ball lapping machine, the max.ball DN300
YFB - XM/2000:	行星研磨机，磨盘直径DN2000 Planet lapping machine, the max.lapping table DN2000
YFB - 6A/4-1/16”:	液压抱压式6A阀门试验台，阀门公称规格4-1/16” Hydraulic hold pressure 6A valve test bench, valve nominal diameter 4-1/16”

Contents

目录



- **YFB - /*** 型
液压抱压式阀门
试验台**
YFB-/** model
hydraulic hold pressure
valve test bench
01/13



- **YFB - QS/**/** 型
潜水式阀门试验台**
YFB - QS/**/**
(submerged) hydraulic
valve test bench
03/11



- **YFB - T/**/** 型
套式阀门试验台**
YFB - T/**/**
model(double head)
valve test bench
14/18



- **YFB - L/**/** 型
立式阀门试验台**
YFB - L/**/** model
vertical valve test
bench
19/23



- **YFB - DF/**/** 型
蝶阀液压阀门试验台**
YFB - DF/**/**
model(butterfly valve)
hydraulic valve test
bench
24/31



- **YFB-D/**/** 型
顶压式阀门试验台**
YFB-D/**/** model
(top press) valve test
bench
32/43



- **YFB-DB/**/** 型
单头液压抱压式阀门
试验台**
YFB-DB/**/** model
(single head) hydraulic
valve test bench
44/48



- **YFB-A/**/** 型
安全阀试验台**
YFB-A/**/** model
safety valve test bench
49/53



- **YFB-XM/**/** 型
行星研磨机**
YFB-XM/**/** model
planet lapping machine
54/55



- **YFB-QM/**/** 型
球体研磨机**
YFB - QM/**/**
model ball lapping
machine
56/57



- **YFB-ZM/**/** 型
阀座研磨机**
YFB-ZM/**/** model seat
ring lapping machine
58/59



- **YFB-SM/**/** 型
阀门寿命试验台**
YFB-SM/**/** model
valve life test bench
60/67



- **YFB-6A/**/** 型6A阀门试验台**
YFB-6A/**/** model 6A valve test bench
68/71



- **YFB-ZDX/**/** 型
阀门检测自动线**
YFB-ZDX/**/** model
valve test automatic line
72



► 技术性能与特点

- ✦ 适用于法兰连接型式阀门的检测;
- ✦ 采用压爪抱压法兰方式压紧, 对试验阀门无外力影响;
- ✦ 阀门可翻转90° 进行试验(可选配两端翻转型), 便于进行气密封检测;
- ✦ 试验介质为水或气(6 bar气源用户自备, 试验介质水循环使用), 通过管路控制阀进行切换;
- ✦ 设备标配低压水注入、高压水注入和保压计时的自动控制系统;
- ✦ 设备标配液压自动卸荷系统, 待机时系统自动卸荷, 使用时系统自动恢复工作状态, 有效降低了油温, 延长了设备使用寿命, 节能降耗;
- ✦ 液压夹紧与水压卸荷有安全互锁;
- ✦ 客户可选配以下附加功能及配置: 双翻转; 安全门; 触摸屏电脑监测系统; 一键通全自动检测系统(触摸屏电脑+ PLC)。

► Technical performance and feature

- ✦ It is suitable to have a shell test, closure test and back seal test for flanged end valves;
- ✦ No external force affects a testing valve as clamp hold flange
- ✦ Valve can be turned to 90° to have a test(2 turning tables on option) so that it is convenient to carry out air seal test;
- ✦ Test medium is water or air(6 bar gas source supplied by customer, test medium water can be recycling), can be changed over by pipeline control valve;
- ✦ Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic clamping has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Double turn over; Safety door; Touch screen monitoring system; One key automatic monitor system(touch screen computer+ PLC)

► 主要技术参数及规格

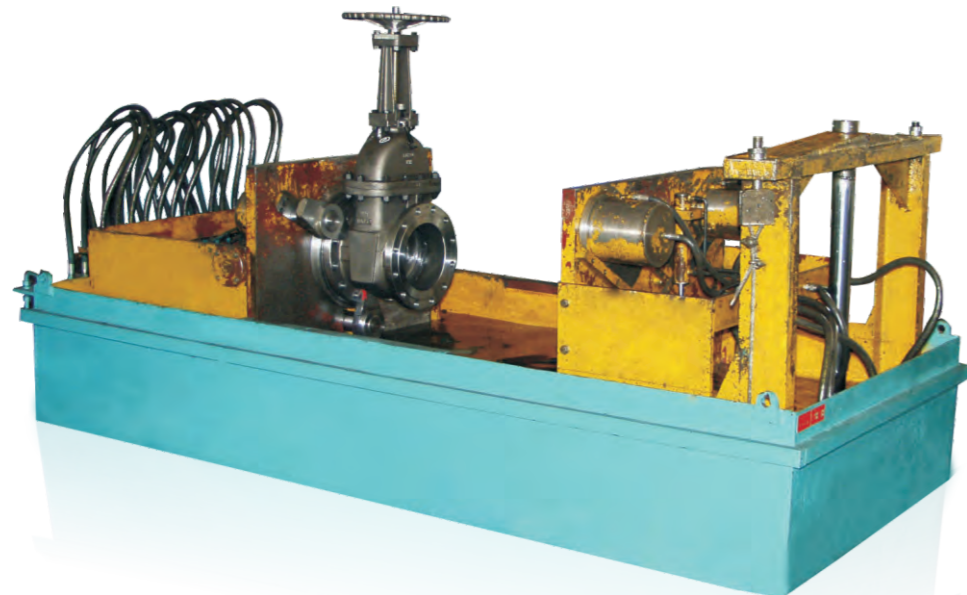
Main technical parameters and sizes

型号规格 Model specification		YFB-/ ※100	YFB-/ ※200	YFB-/ ※300	YFB-/ ※400	YFB-/ ※500	YFB-/ ※600	YFB-/ ※800	YFB-/ ※1000	YFB-/ ※1200
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300	200 - 400	250 - 500	300 - 600	400 - 800	500 - 1000	600 - 1200
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 43.0	1.6 - 43.0	1.6 - 43.0	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0	1.6 - 11.0
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min.valve face- to-face dimension	108	178	203	292	330	356	406	457	508
	最长结构长度 mm The max.valve face- to-face dimension	432	597	673	838	991	1143	1524	1727	1981
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min flange diameter/thickness	90 / 10	150 / 16	190 / 19	345 / 29	405 / 31	485 / 32	600 / 37	700 / 43	815 / 48
	最大法兰直径 / 厚度mm Max flange diameter/thickness	275 / 58	380 / 66	520 / 75	650 / 74	775 / 77	915 / 93	1149 / 109	1289 / 115	1511 / 121
盲板间距范围 ⁽²⁾ Blind flange spacing	最小间距mm Min.space between	90	160	185	270	310	340	390	440	490
	最大间距mm Max.space between	620	800	1000	1150	1320	1420	2100	2250	2500
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3								
	排量ml / r Displacement	6.3	16	25	25	40	40	63	63	80
	高压(增压) MPa Boosting	≤31.5								
	系统调压范围MPa Pressure adjusting range	≤6.3								
电源 Power	电压V/频率Hz Voltage/Frequency	380/50								
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6	3 / 6	5.5 / 6	5.5 / 6	7.5 / 6	7.5 / 6	11 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	2550	2820	3100	3350	3750	3900	5200	5500	6000
	宽 mm (W)	1230	1400	1510	1750	1800	1900	2400	2500	3000
	高 mm (H)	1200	1300	1350	1450	1500	1650	2000	2200	2300
重量(≈) kg Weight	YFB-/※※	1980	2400	3000	4400	5000	5600	8000	12000	14000

说 明:

- (1)通径与压力的具体范围, 见各型号试验台的详细说明;
- (2)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
(2)The final size is decided by final product design.



► 技术性能与特点

- ✦ 设备由操作控制台和夹紧试压装置两部份组成，夹紧试压装置可整体潜入水中，由液压控制其上升下降；
- ✦ 潜水抱压式试验台适用于法兰连接型式阀门的检测，潜水顶压式试验台适用于法兰连接、焊接坡口或内通道密封型阀门的检测；
- ✦ 试验介质为水或气（6 bar气源用户自备，试验介质水循环使用），通过管路控制阀进行切换；
- ✦ 设备标配低压水注入、高压水注入和保压计时的自动控制系统；
- ✦ 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- ✦ 液压或螺杆夹紧、顶紧机构，与水压卸荷有安全互锁；
- ✦ 客户可选配以下附加功能及配置：双翻转；触摸屏电脑监测系统。

► Technical performance and feature

- ✦ The test bench is made up of 2 parts: operation control table and clamping pressure test device, clamping pressure test device can all be submerged under water, which is up or down by oil pressure;
- ✦ Submerged type valve test bench is suitable to have a test for flanged end valves; Submerged top pressure type is suitable to have a test for flanged end, welded groove or inner tunnel sealing type valves;
- ✦ Test medium is water or air(6 bar gas source supplied by customer, test medium water can be recycling), can be changed over by pipeline control valve;
- ✦ Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic or screw clamping、pressing device has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Double turn over; Touch screen monitoring system.

► 主要技术参数及规格

Main technical parameters and sizes

型号规格 Model specification		YFB-QS/ ※100	YFB-QS/ ※200	YFB-QS/ ※300	YFB-QS/ ※400	YFB-QS/ ※500	YFB-QS/ ※600	YFB-QS/ ※800
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300	200 - 400	250 - 500	300 - 600	400 - 800
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 43.0	1.6 - 43.0	1.6 - 43.0	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min. valve face- to-face dimension	108	178	203	292	330	356	406
	最长结构长度 mm The max. valve face- to-face dimension	432	597	673	838	991	1143	1524
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min flange diameter/thickness	90 / 10	150 / 16	190 / 19	345 / 29	405 / 31	485 / 32	600 / 37
	最大法兰直径 / 厚度mm Max flange diameter/thickness	275 / 58	380 / 66	520 / 75	650 / 74	775 / 77	915 / 93	1149 / 109
盲板间距范围 ⁽²⁾ Blind flange spacing	最小间距mm Min. space between	90	160	185	270	310	340	390
	最大间距mm Max. space between	620	800	1000	1150	1320	1420	2100
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3						
	排量ml / r Displacement	6.3	16	25	25	40	40	63
	高压（增压）MPa Boosting	≤31.5						
	系统调压范围MPa Pressure adjusting range	≤6.3						
电源 Power	电压V/频率Hz Voltage/Frequency	380/50						
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6	3 / 6	5.5 / 6	5.5 / 6	7.5 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	2550	2820	3100	3350	3750	3900	5200
	宽 mm (W)	1230	1400	1510	1750	1800	1900	2400
	高 mm (H)	1200	1300	1350	1450	1500	1650	2000
YFB-QS/※※型 水箱尺寸 Water tank size	长 mm (L)	2200	2580	2800	3100	3300	3600	4700
	宽 mm (W)	750	850	1130	1300	1500	1600	2200
	高 mm (H)	1060	1650	2000	2300	2500	2600	2660
重量 (≈) kg Weight	YFB-QS/※※	2500	3600	4800	7200	8000	9000	13000

说明:

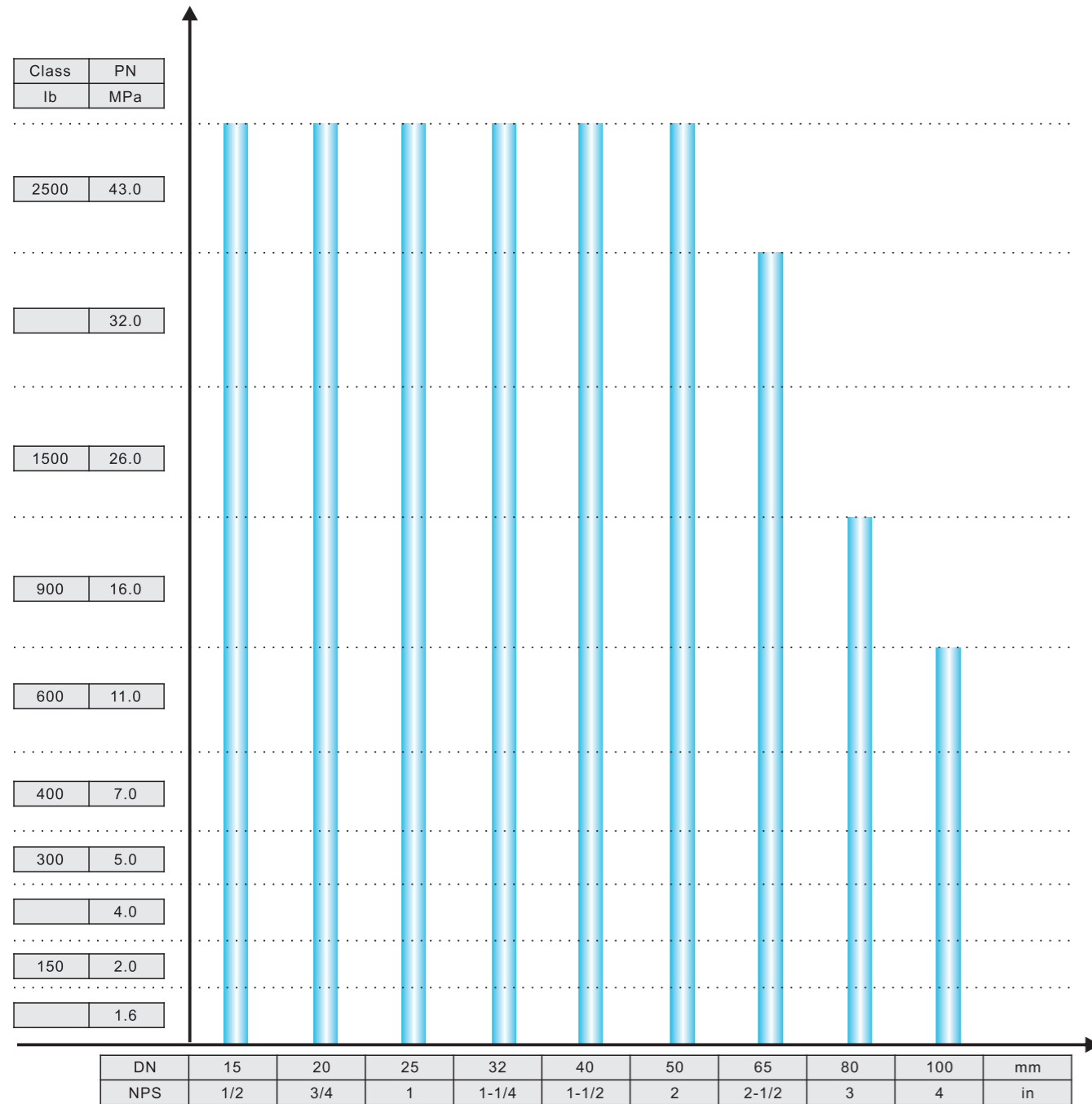
- (1)通径与压力的具体范围，见各型号试验台的详细说明；
- (2)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
(2)The final size is decided by final product design.



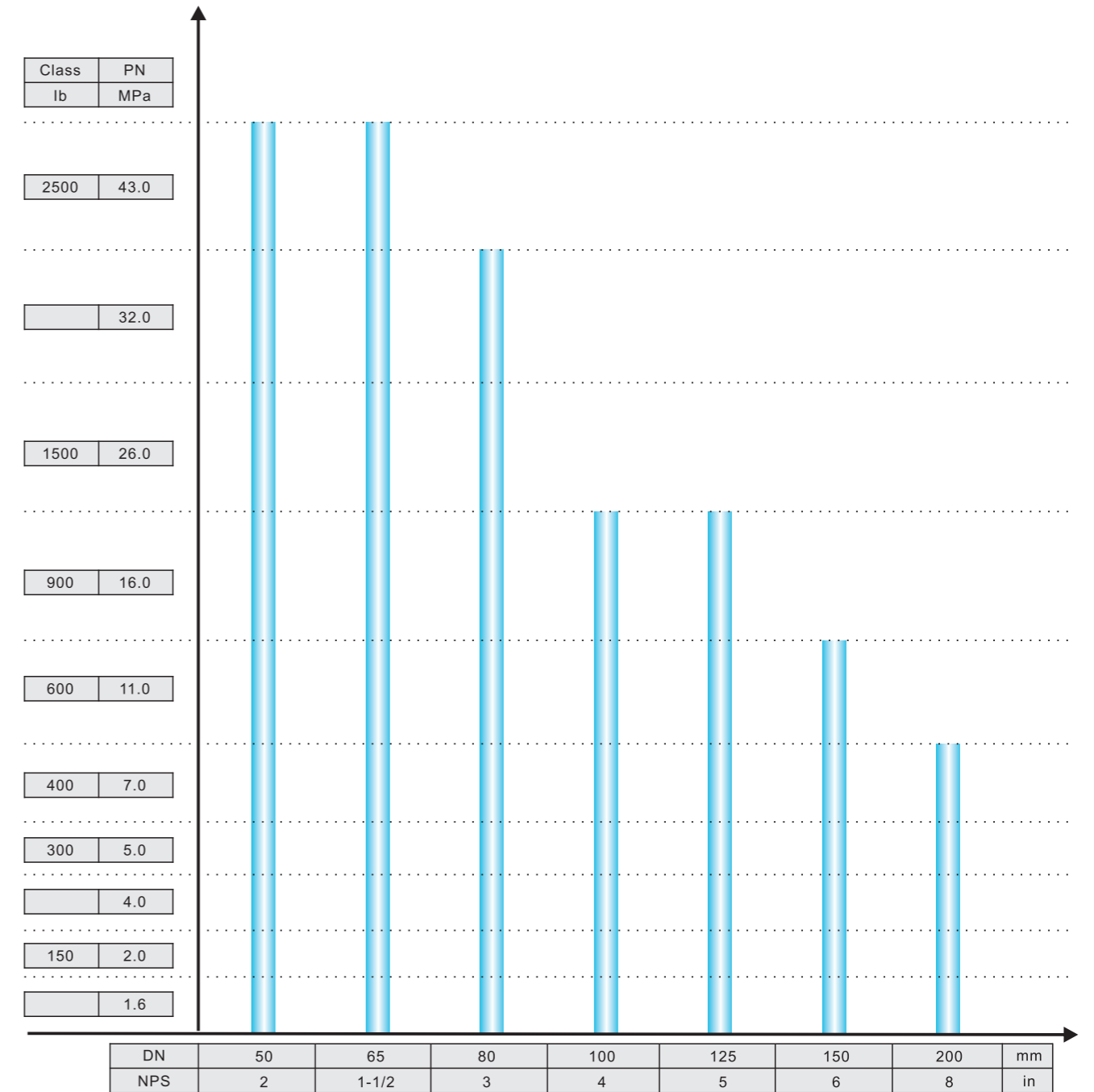
► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure



► **阀门公称通径与公称压力试验范围**

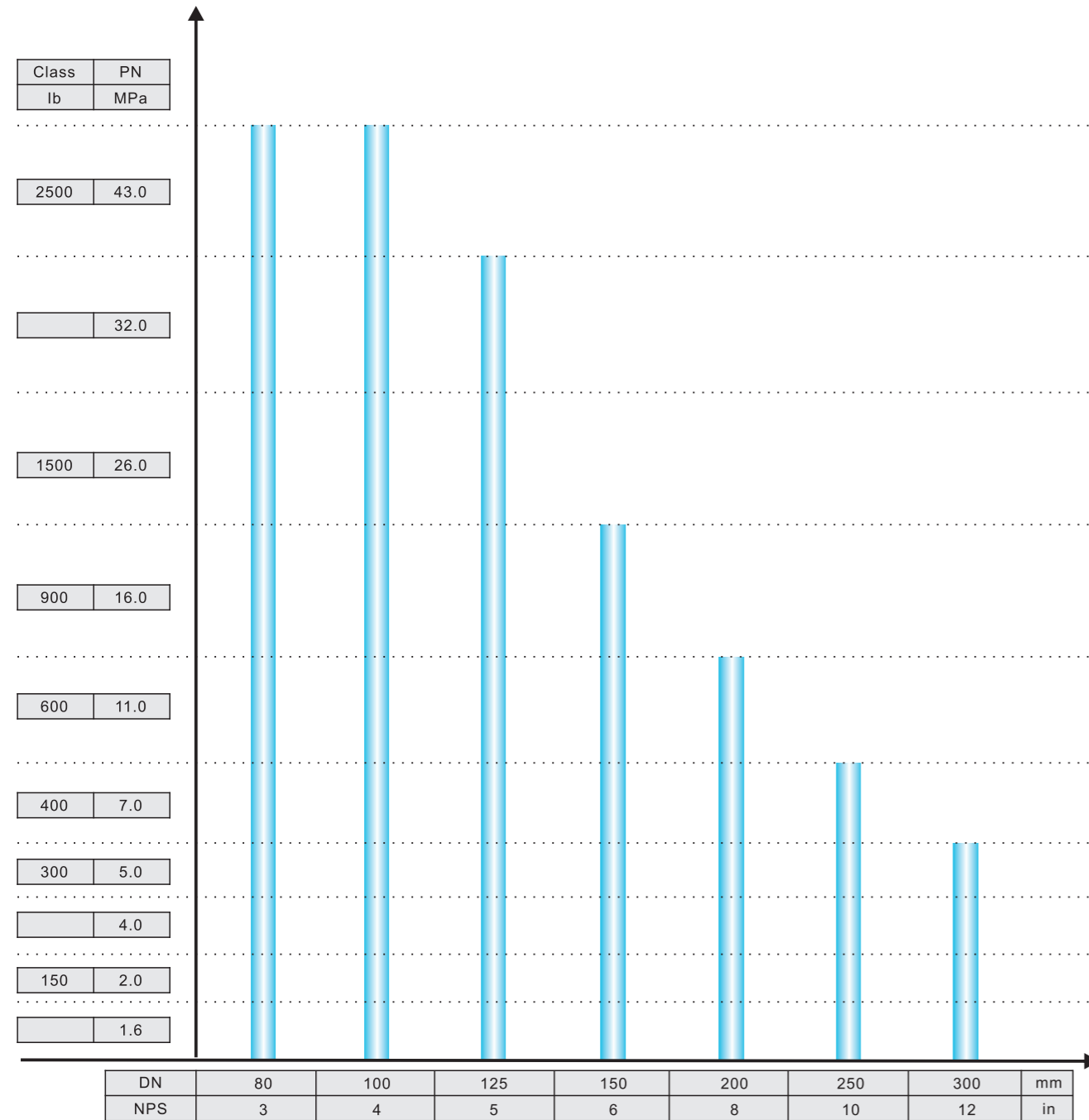
Test range of valve nominal diameter and nominal pressure





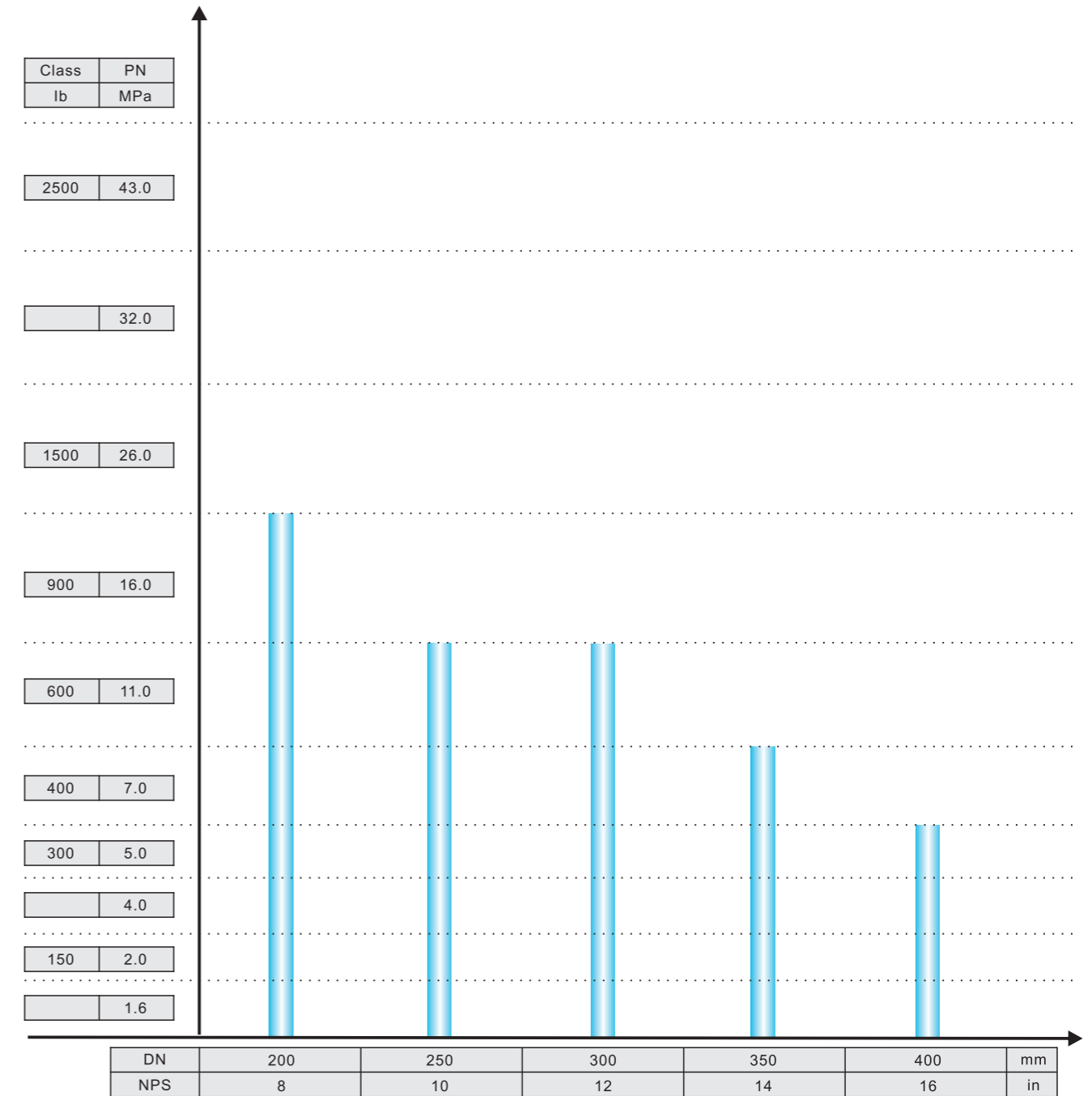
► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure



► **阀门公称通径与公称压力试验范围**

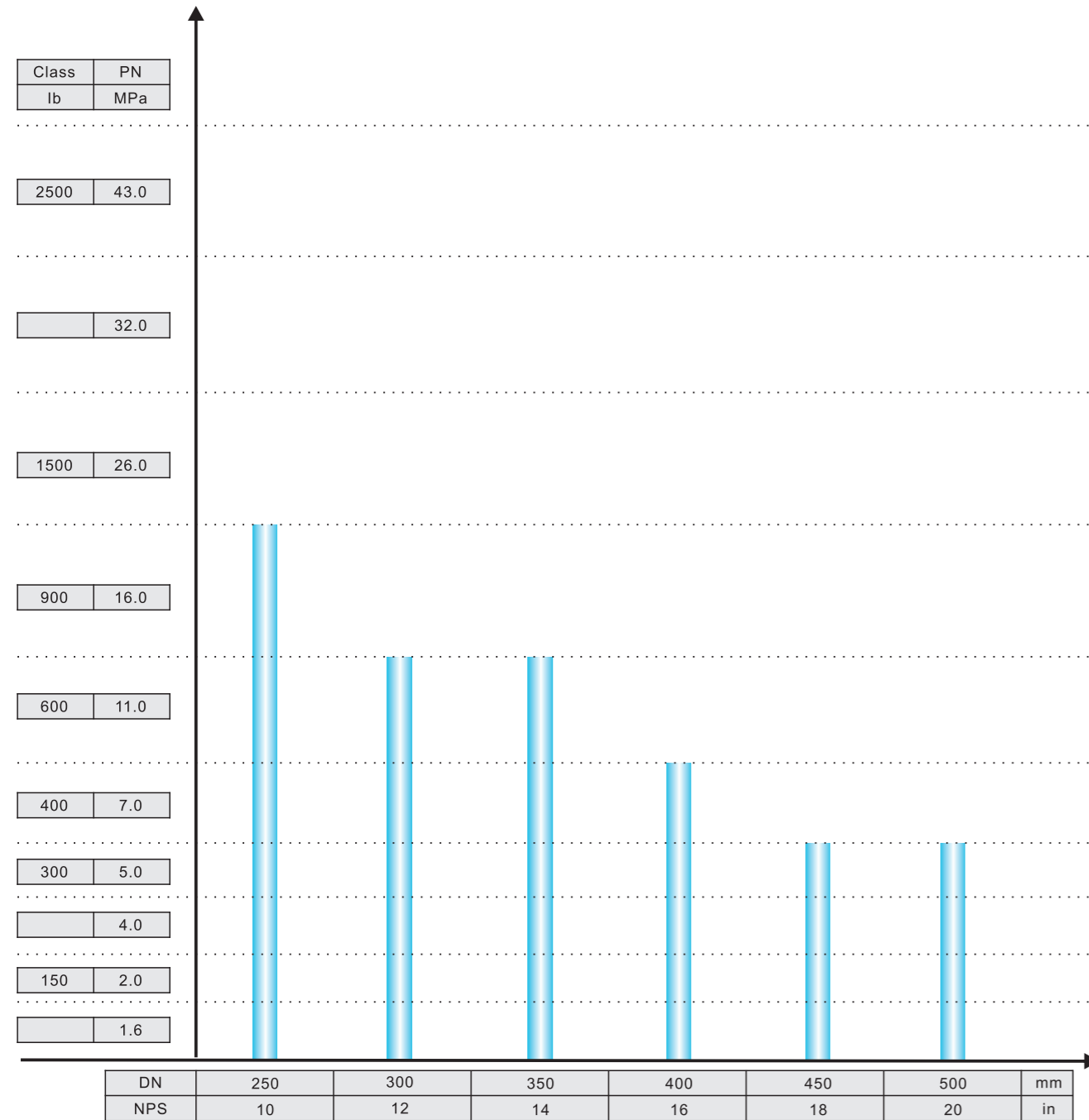
Test range of valve nominal diameter and nominal pressure





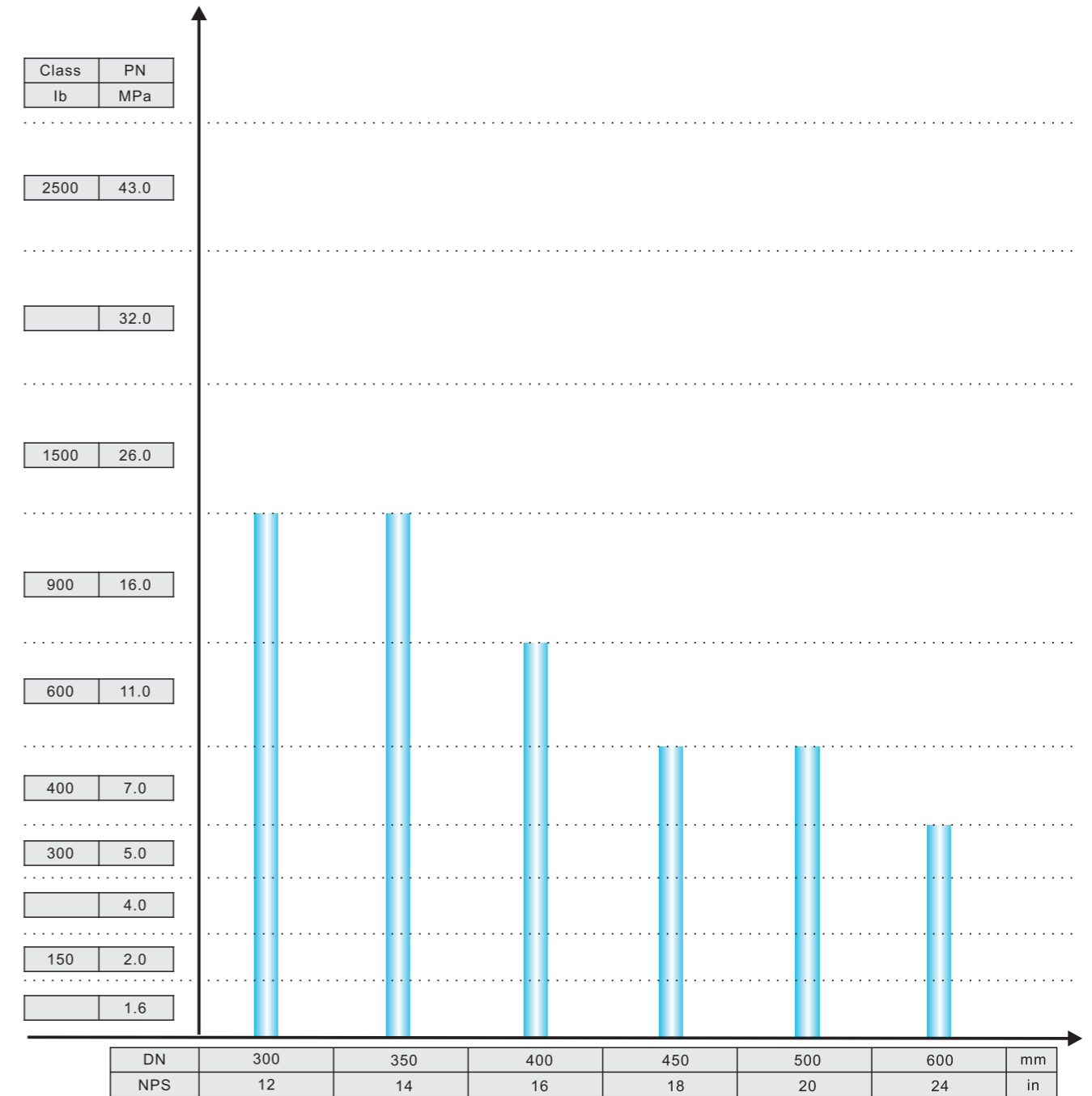
► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure



► **阀门公称通径与公称压力试验范围**

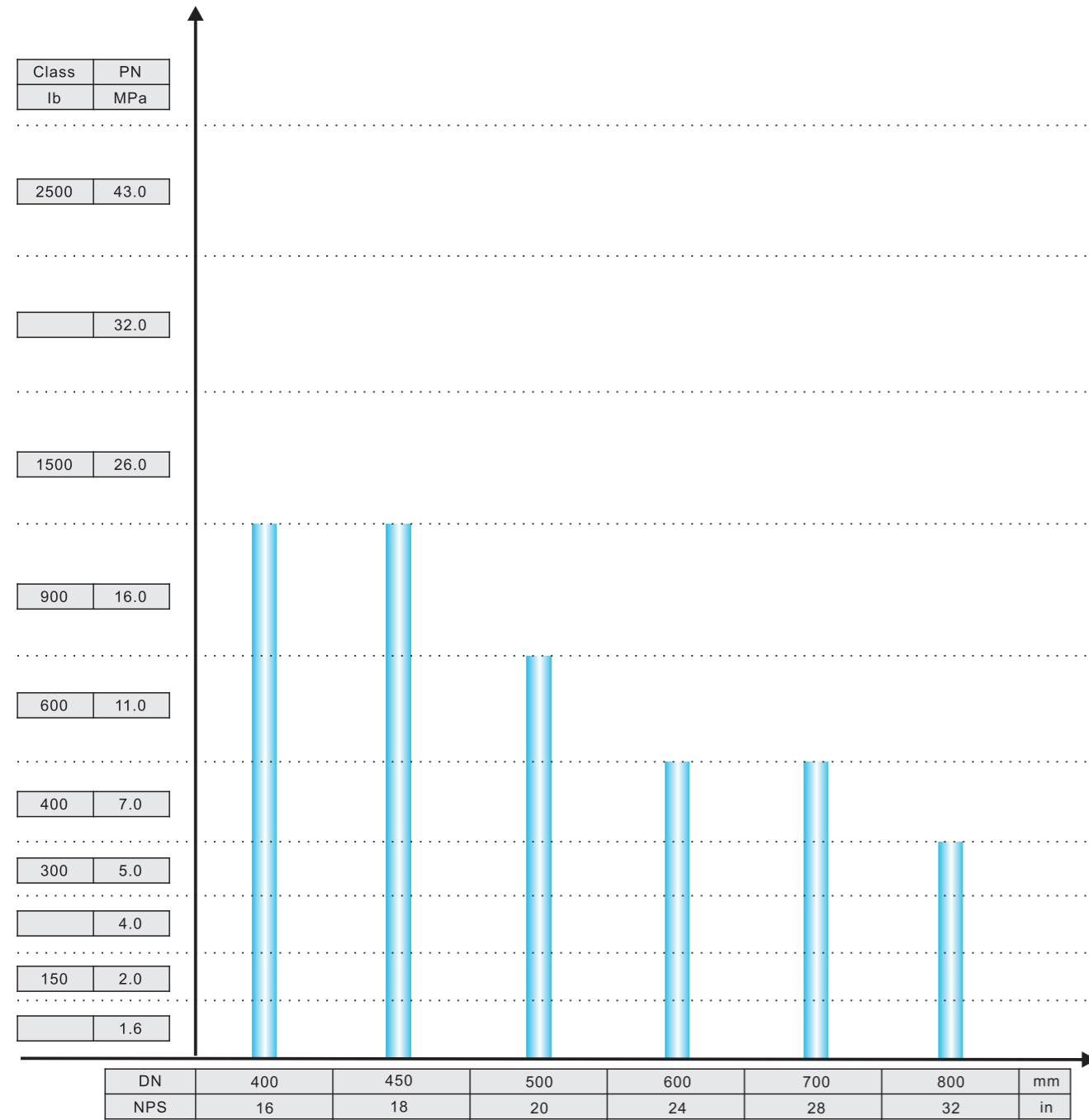
Test range of valve nominal diameter and nominal pressure





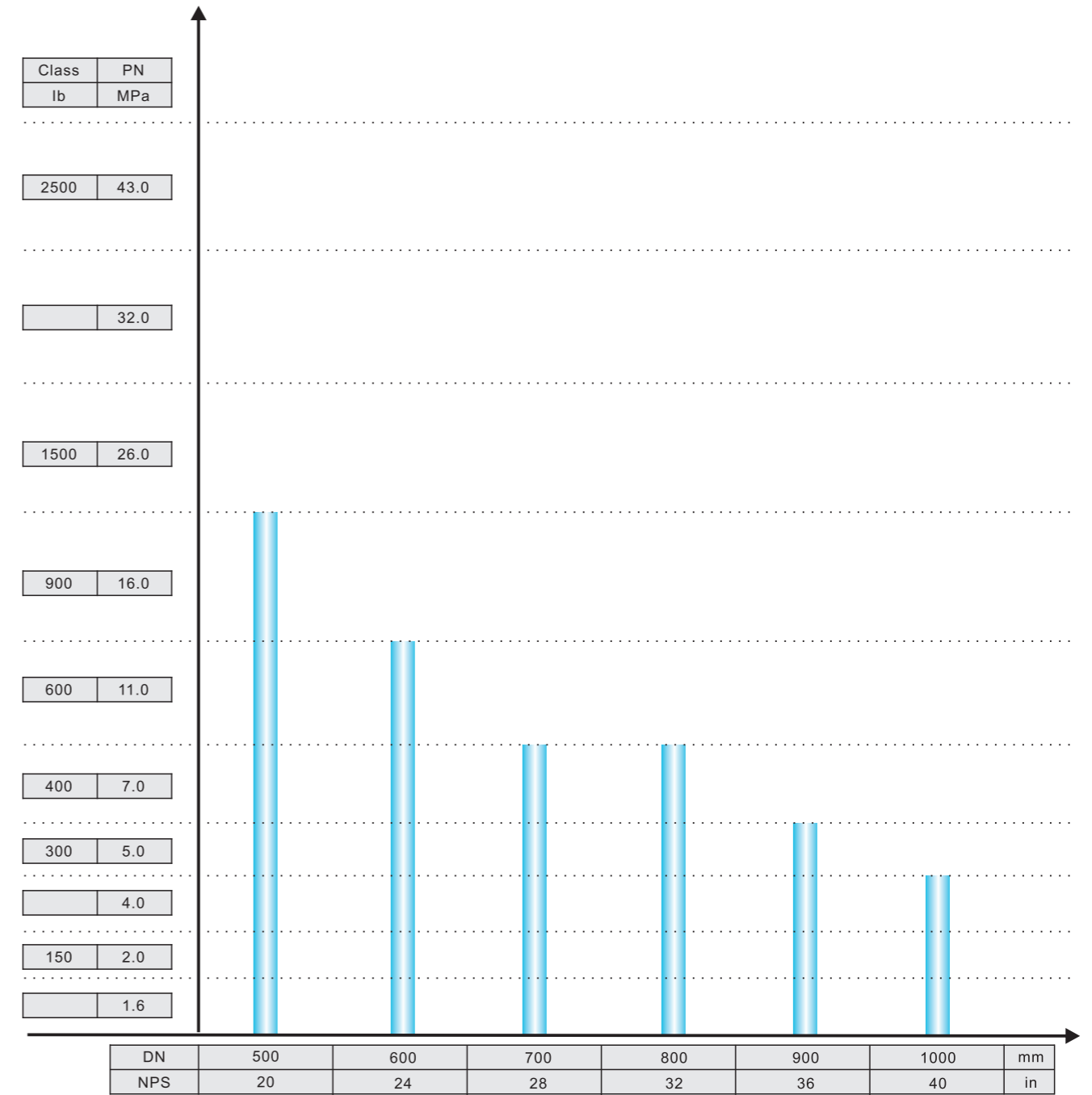
► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure

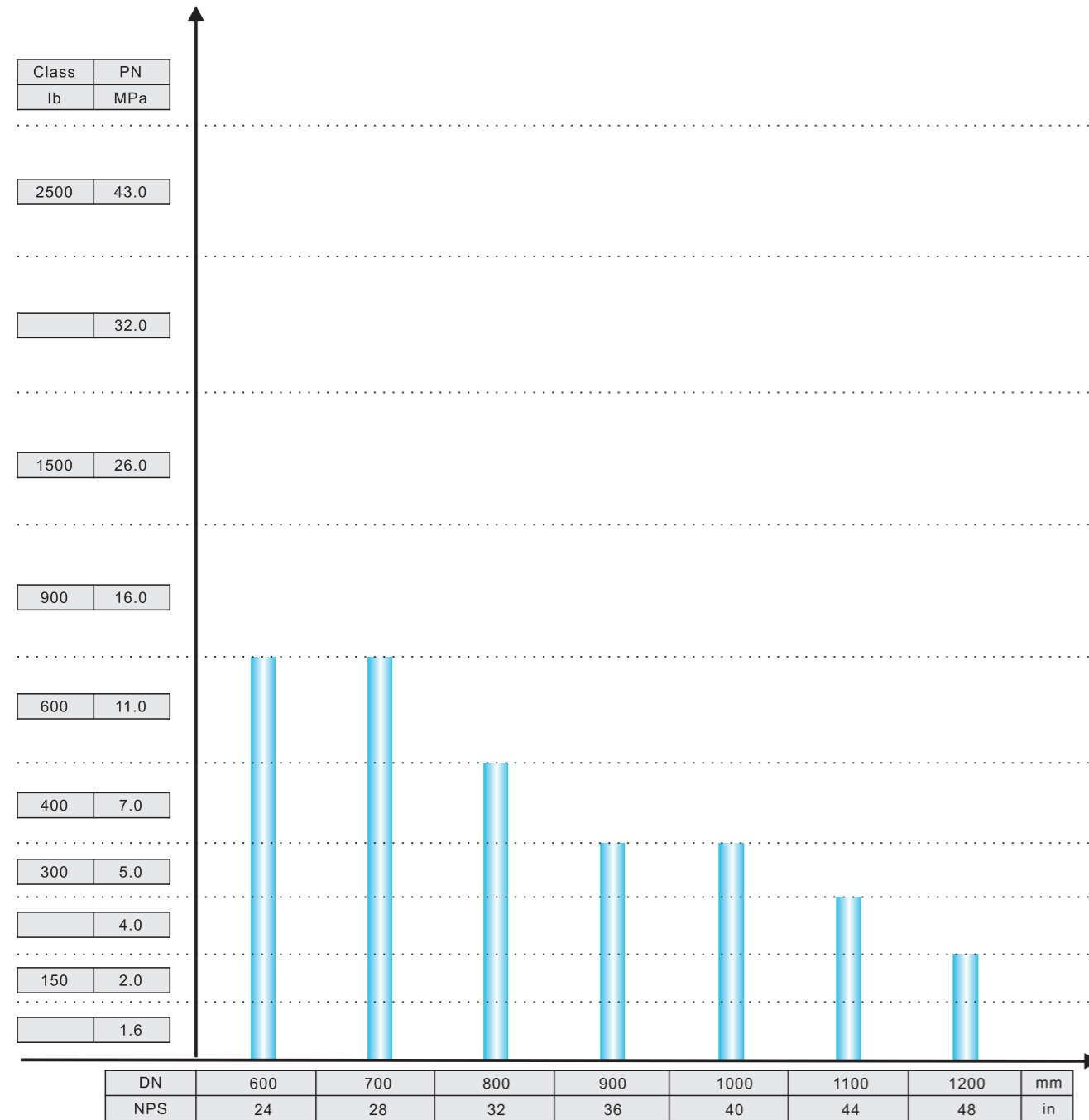


► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure



► **阀门公称通径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure



► **技术性能与特点**

- 特别适用于测试较小规格、法兰连接的阀门，也适用于焊接连接和螺纹连接阀门的测试；
- 设备上部压紧机构有液压驱动和螺杆驱动两种型式；
- 设备的一套控制系统可实现对1~4个阀门测试工位的控制（由客户选配）；
- 工作台可翻转90°，便于阀门密封性能的检测；
- 上方横梁可旋转90°以上，使工作台面完全敞开，便于阀门上、下工位操作；
- 试验介质为水或气（6 bar气源用户自备，试验介质水循环使用），通过管路控制阀进行切换；
- 设备标配低压水注入、高压水注入和保压计时的自动控制系统；
- 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- 液压或螺杆夹紧、顶紧机构，与水压卸荷有安全互锁；
- 客户可选配以下附加功能及配置：触摸屏电脑监测系统；多工位。

► **Technical performance and feature**

- It is specially suitable to have a test for small sized and flanged end valves, welded end or threaded valves;
- The upper pressing device has hydraulic driving and screw driving type;
- An control system controls 1-4 valve test stations(on customer request);
- A work table can turn 90°so that it is convenient to have a closure test;
- The top beam can be turned over 90°and the work table is fully open so that it is easy to operate;
- Test medium is water or air(6 bar gas source supplied by customer,test medium water can be recycling), can be changed over by pipeline control valve;
- Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- Hydraulic or screw clamping、pressing device has safety interlock with water pressure discharge;
- Customer can choose the functions as followed:Touch screen computer monitoring system;Multi-station.



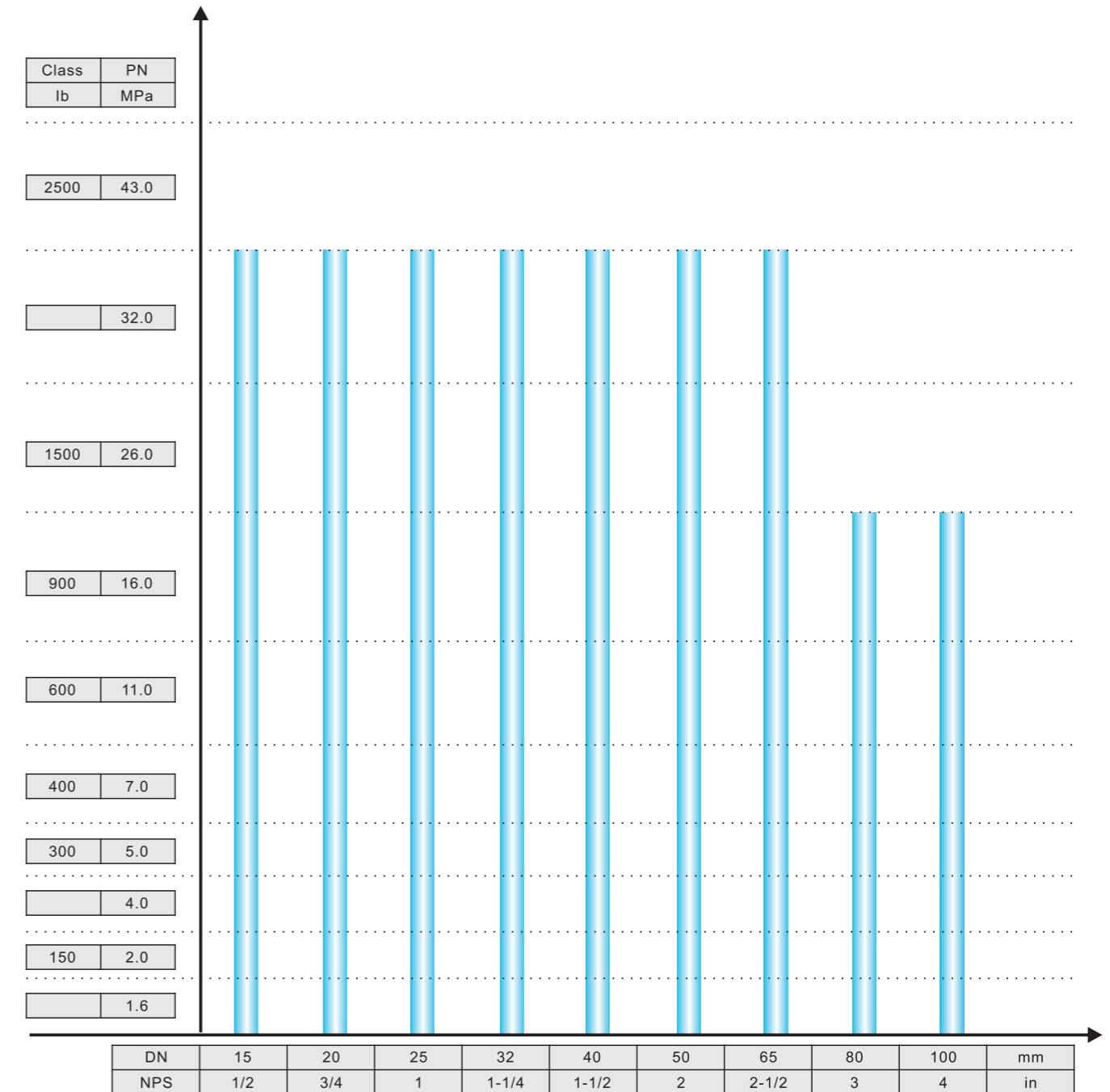
► **主要技术参数及规格**
Main technical parameters and sizes

型号规格 Model specification		YFB-TY/※100 YFB-TL/※100	YFB-TY/※200 YFB-TL/※200	YFB-TY/※300 YFB-TL/※300
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 32.0	1.6 - 32.0	1.6 - 32.0
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min.valve face-to-face dimension	108	178	203
	最长结构长度 mm The max.valve face-to-face dimension	457	597	648
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min flange diameter/thickness	90 / 10	150 / 16	190 / 19
	最大法兰直径 / 厚度mm Max flange diameter/thickness	290 / 52	380 / 61	520 / 65
盲板间距范围 ⁽²⁾ Blind flange spacing	最小间距mm Min.space between	95	165	190
	最大间距mm Max.space between	490	650	750
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3		
	排量 ml / r Displacement	6.3	16	25
	高压 (增压) MPa Boosting	≤31.5		
	系统调压范围MPa Pressure adjusting range	≤6.3		
电源 Power	电压V/频率Hz Voltage/Frequency	380 / 50		
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	1300	1400	1560
	宽 mm (W)	600	650	770
	高 mm (H)	1700	1810	1920
重量 Weight	kg	1400	1800	2200

说明:
 (1)通径与压力的具体范围, 见各型号试验台的详细说明;
 (2)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
 (2)The final size is decided by final product design.

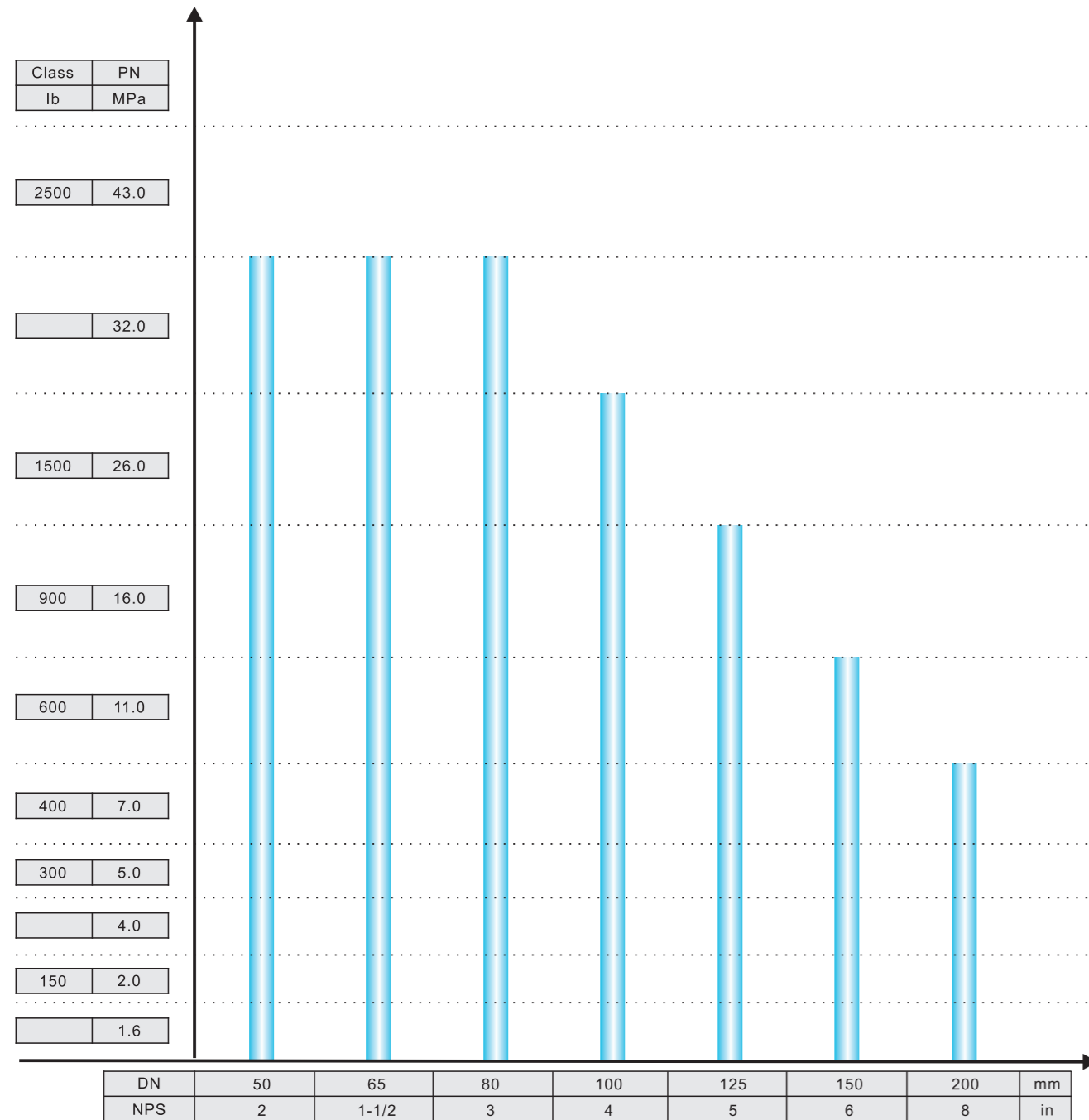
► **阀门公称通径与公称压力试验范围**
Test range of valve nominal diameter and nominal pressure





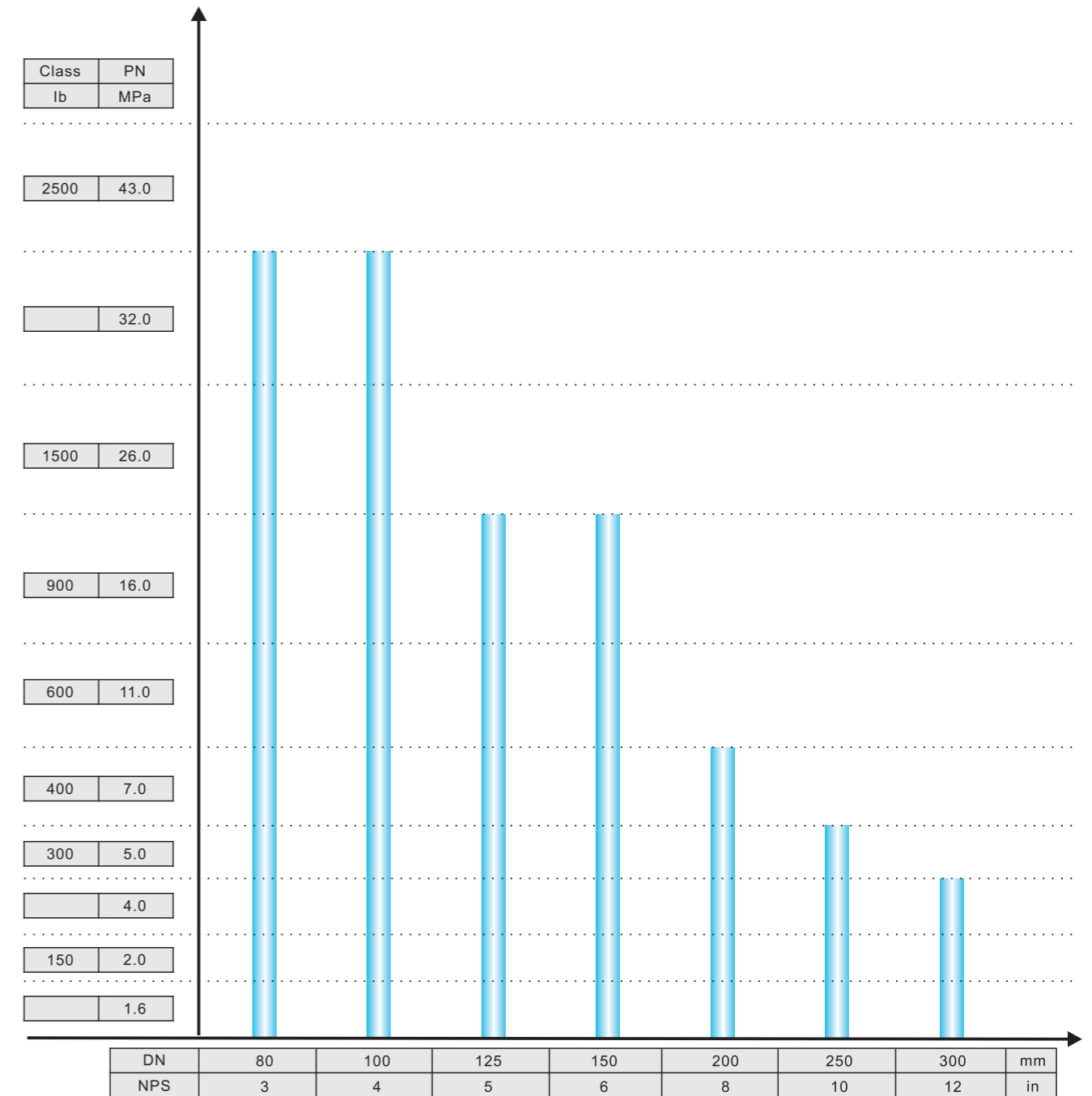
► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure

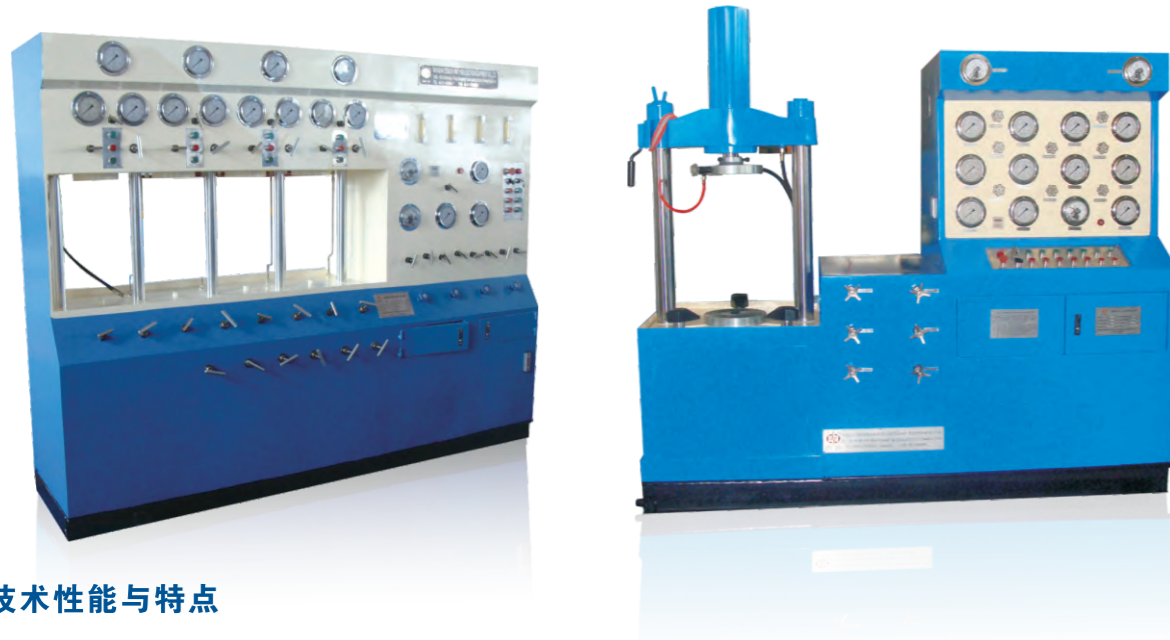


► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



► **主要技术参数及规格**
 Main technical parameters and sizes



► **技术性能与特点**

- ✦ 特别适用于测试较小规格、法兰连接的阀门，也适用于焊接连接和螺纹连接阀门的测试；
- ✦ 设备上部压紧机构有液压驱动和螺杆驱动两种型式；
- ✦ 设备的一套控制系统可实现对1~6个阀门测试工位的控制（由客户选配）；
- ✦ 兼有夹爪抱压和顶压压紧两种型式，适用范围广；
- ✦ 上方横梁可旋转90°以上，使工作台面完全敞开，便于阀门上、下工位操作；
- ✦ 试验介质为水或气（6 bar气源用户自备，试验介质水循环使用），通过管路控制阀进行切换；
- ✦ 设备标配低压水注入、高压水注入和保压计时的自动控制系统；
- ✦ 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- ✦ 液压或螺杆夹紧、顶紧机构，与水压卸荷有安全互锁；
- ✦ 客户可选配以下附加功能及配置：触摸屏电脑监测系统；安全门；多工位。

► **Technical performance and feature**

- ✦ It is specially suitable for have a test for small sized flanged end valves, welded end or threaded valves;
- ✦ The upper pressing device has hydraulic driving and screw driving type;
- ✦ An control system controls 1-6 valve test stations(on customer request);
- ✦ It is equipped a claw press device and claw hold device and has wide suitability;
- ✦ A top beam can be turned over 90° and the work table is fully open so that it is easy to operate;
- ✦ Test medium is water or air(6 bar gas source supplied by customer,test medium water can be recycling), can be changed over by pipeline control valve;
- ✦ Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic or screw clamping、pressing device has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed:Touch screen computer monitoring system;Safety door;Multi-station.

型号规格 Model specification		YFB-LY/※100 YFB-LL/※100	YFB-LY/※200 YFB-LL/※200	YFB-LY/※300 YFB-LL/※300
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 32.0	1.6 - 32.0	1.6 - 32.0
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min.valve face- to-face dimension	108	178	203
	最长结构长度 mm The max.valve face- to-face dimension	432	597	648
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min flange diameter/thickness	90 / 10	150 / 16	190 / 19
	最大法兰直径 / 厚度mm Max flange diameter/thickness	275 / 51	380 / 58	520 / 65
盲板间距范围 ⁽²⁾ Blind flange spacing	最小间距mm Min.space between	95	165	190
	最大间距mm Max.space between	490	650	750
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3		
	排量ml / r Displacement	6.3	16	25
	高压（增压）MPa Boosting	≤ 31.5		
	系统调压范围MPa Pressure adjusting range	≤ 6.3		
电源 Power	电压V/频率Hz Voltage/Frequency	380 / 50		
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	1750	1850	2050
	宽 mm (W)	800	1100	1100
	高 mm (H)	1850	1850	1850
重量 Weight	kg	1500	2000	2500

说 明:

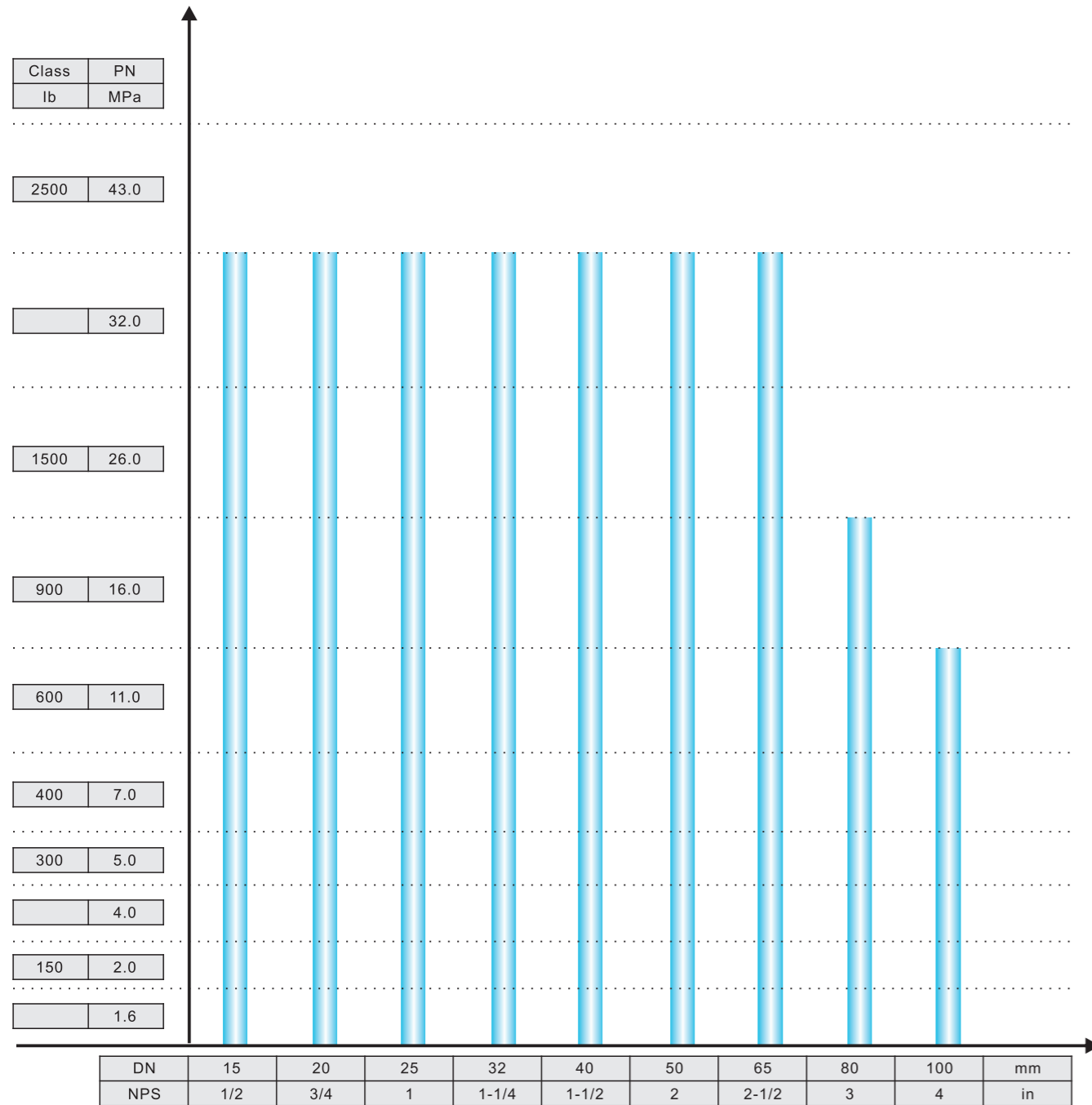
- (1)通径与压力的具体范围，见各型号试验台的详细说明；
- (2)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
 (2)The final size is decided by final product design.



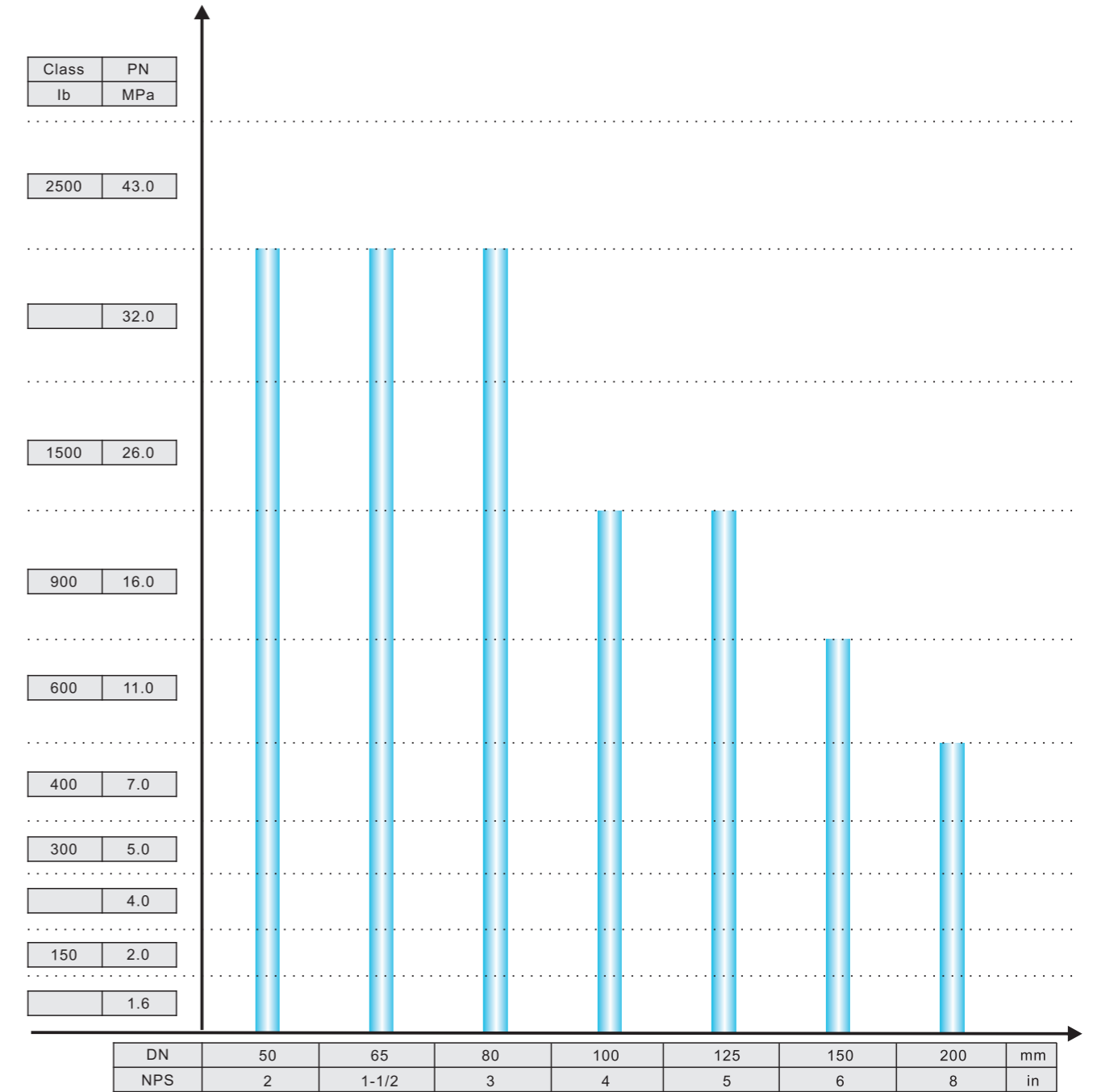
► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



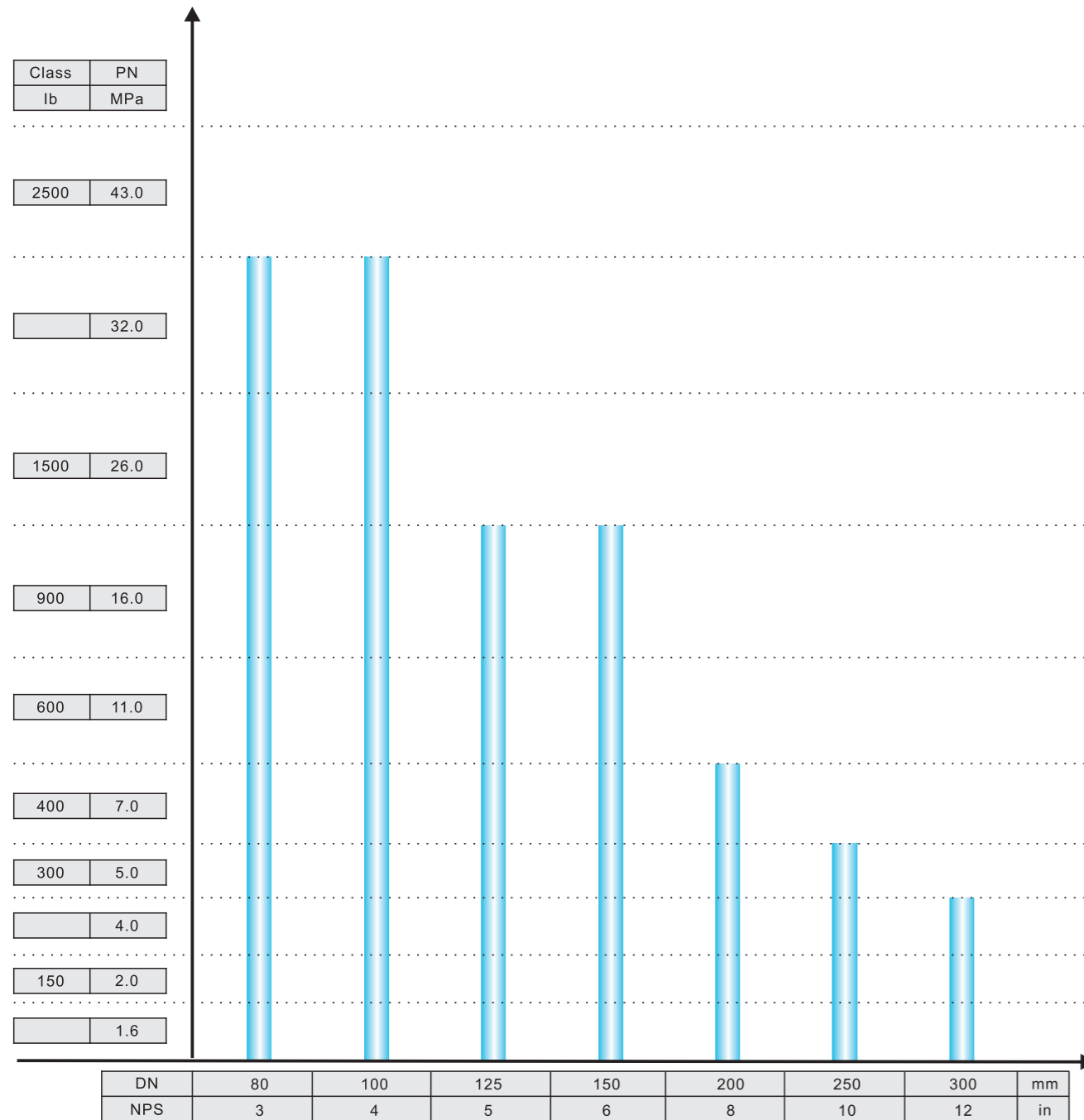
► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure





► **阀门公称通径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure



► **技术性能与特点**

- ✦ 适用于法兰连接和对夹连接型式蝶阀的检测;
- ✦ 夹爪同步移动, 同步夹紧;
- ✦ 有单工位型式和双工位型式 (由客户选配);
- ✦ 试验介质为水或气 (6 bar气源用户自备, 试验介质水循环使用), 通过管路控制阀进行切换;
- ✦ 设备标配低压水注入、高压水注入和保压计时的自动控制系统;
- ✦ 设备标配液压自动卸荷系统, 待机时系统自动卸荷, 使用时系统自动恢复工作状态, 有效降低了油温, 延长了设备使用寿命, 节能降耗;
- ✦ 液压夹紧与水压卸荷有安全互锁;
- ✦ 客户可选配以下附加功能: 触摸屏电脑监测系统; 双工位。

► **Technical performance and feature**

- ✦ It is suitable to have a test for flanged end and wafer end butterfly valves;
- ✦ The claws are simultaneously moved or clamped;
- ✦ There are single station and double stations on customer request;
- ✦ Test medium is water or air (6 bar gas source supplied by customer, test medium water can be recycling), can be changed over by pipeline control valve;
- ✦ Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic clamping has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Touch screen computer monitoring system; Double stations



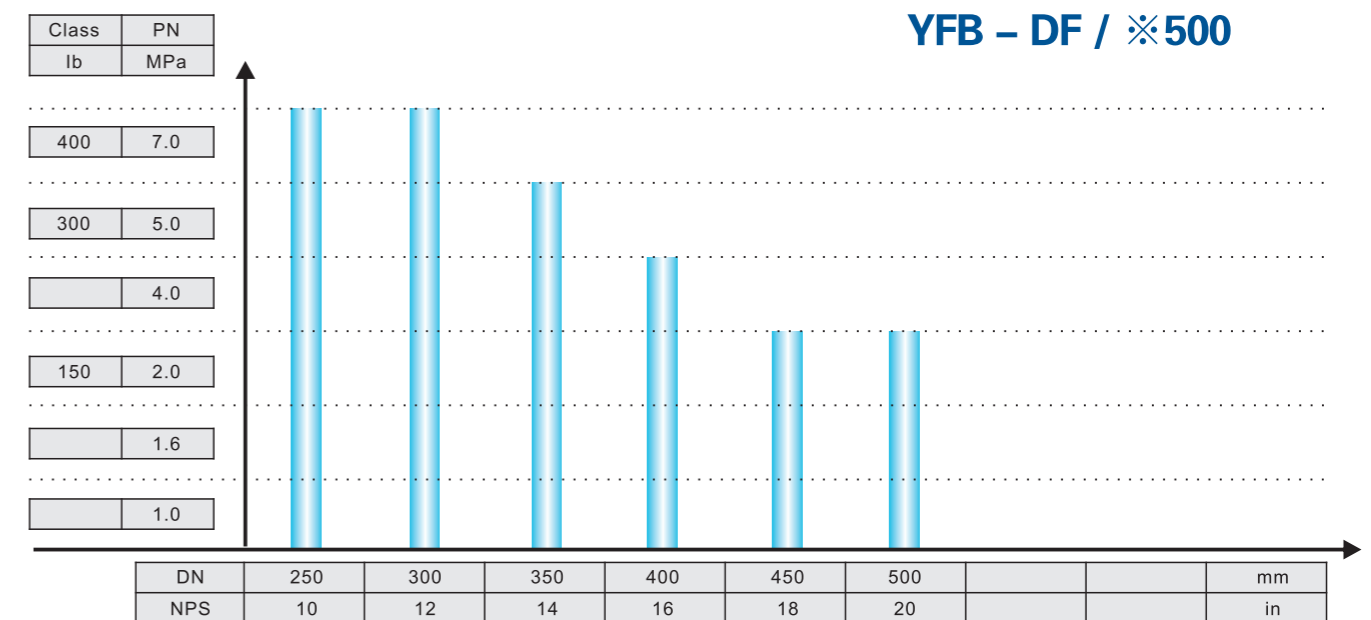
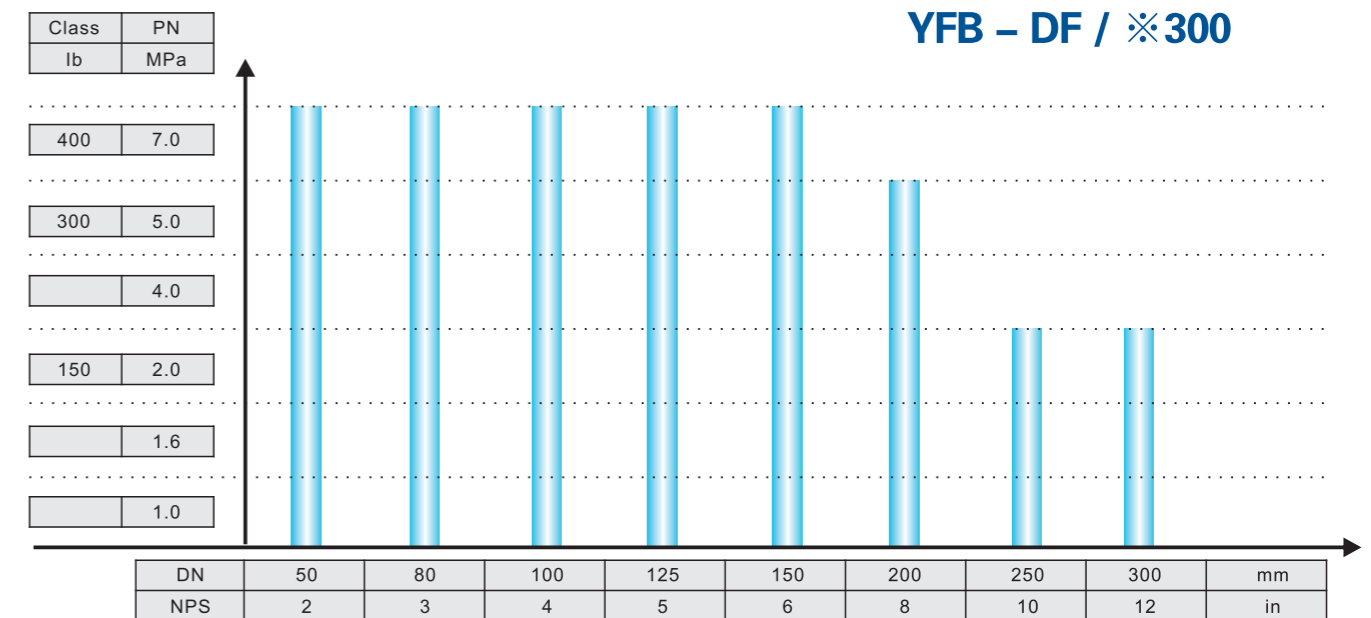
► **主要技术参数及规格**
Main technical parameters and sizes

型号 Model	YFB-DF/※300	YFB-DF/※(2)250/500	YFB-DF/※(2)300/600	YFB-DF/※(2)300/800	YFB-DF/※(2)500/1000	YFB-DF/※(2)600/1200	YFB-DF/※(2)800/1600	YFB-DF/※2000	YFB-DF/※2200	YFB-DF/※2400	YFB-DF/※3000	YFB-DF/※3600
规格 ⁽¹⁾ specification	DN 50-300	DN250-250 DN250-500	DN300-600	DN350-800	DN500-1000	DN700-1200	DN900-1600	DN1200-2000	DN1400-2200	DN1600-2400	DN1600-3000	DN1600-3600
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure											
	6.3											
	排量ml / r Displacement											
	16 25 25 25 40 40 40 63 63 63 80 80											
高压(增压)MPa High pressure (Boosting)												
≤31.5												
系统调压范围MPa Pressure adjusting range												
≤6.3												
电源 Power	电压V / 频率Hz Voltage / Frequency											
380 / 50												
电机 Motor	功率kW / 极数P Power / Pole											
2.2 / 6 3 / 6 3 / 6 3 / 6 5.5 / 6 5.5 / 6 5.5 / 6 7.5 / 6 7.5 / 6 7.5 / 6 11 / 6 11 / 6												
最小阀门法兰(mm) The min. valve flange												
150 150 / 395 150 / 445 150 / 505 395 / 670 445 / 895 505 / 1075 1405 1575 1790 1790 1790												
最大阀门法兰(mm) The max. valve flange												
485 405 / 700 485 / 815 485 / 1060 700 / 1289 815 / 1485 1060 / 1915 2325 2475 2685 3405 3840												
压爪至工作盘最大距离 ⁽²⁾ (mm) The max. distance between claw and work table												
370 370 / 550 370 / 620 370 / 637 550 / 1100 620 / 1225 637 / 1225 1225 1250 1250 1250 1250												
外形尺寸 ⁽²⁾ Overall size	长L(mm)											
	2000 3500 3500 3600 4150 4900 5200 4500 5000 5500 8400 10700											
	宽W(mm)											
1200 1350 1350 1500 1850 2200 2350 2750 3300 3600 6160 8200												
高H(mm)												
1850 1980 1980 2050 2050 2050 2200 2200 2200 2200 3065 3100												
重量 ≈ (kg) Weight												
2000 4500 4500 6000 7500 8000 9800 9000 11500 13000 58000 70000												

说明:
 (1) 通径与压力的具体范围, 见各型号试验台的详细说明;
 (2) 以最终产品设计尺寸为准。

Remark: (1) Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
 (2) The final size is decided by final product design.

► **阀门公称通径与公称压力试验范围**
Test range of valve nominal diameter and nominal pressure

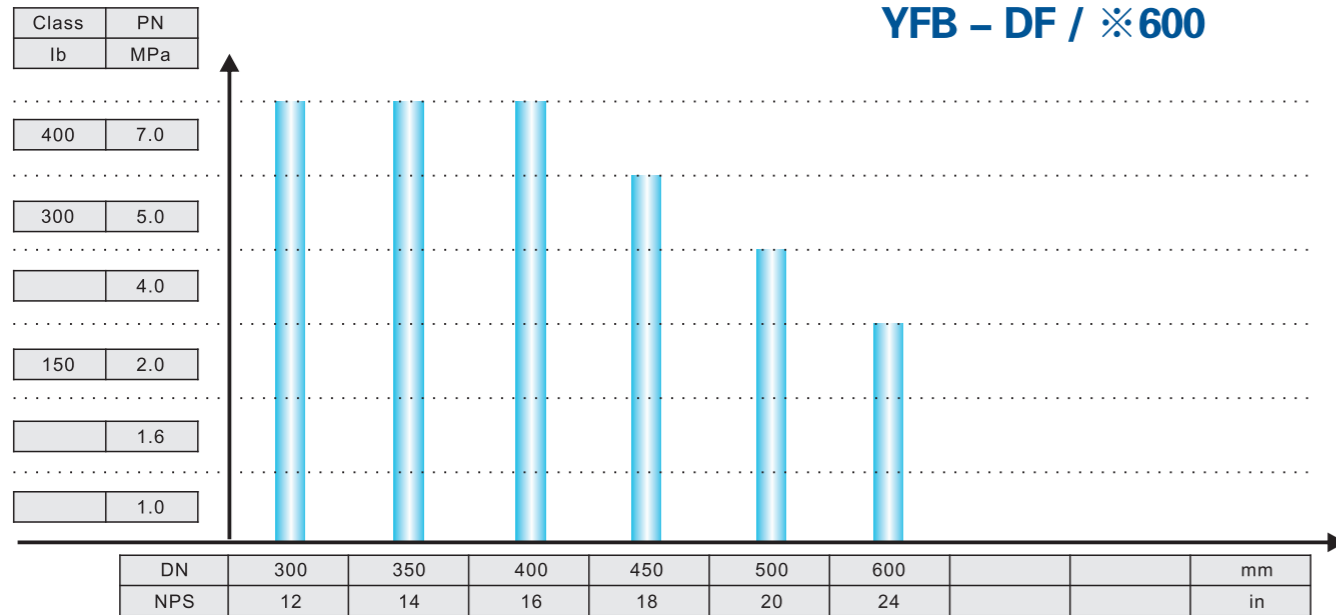




► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure

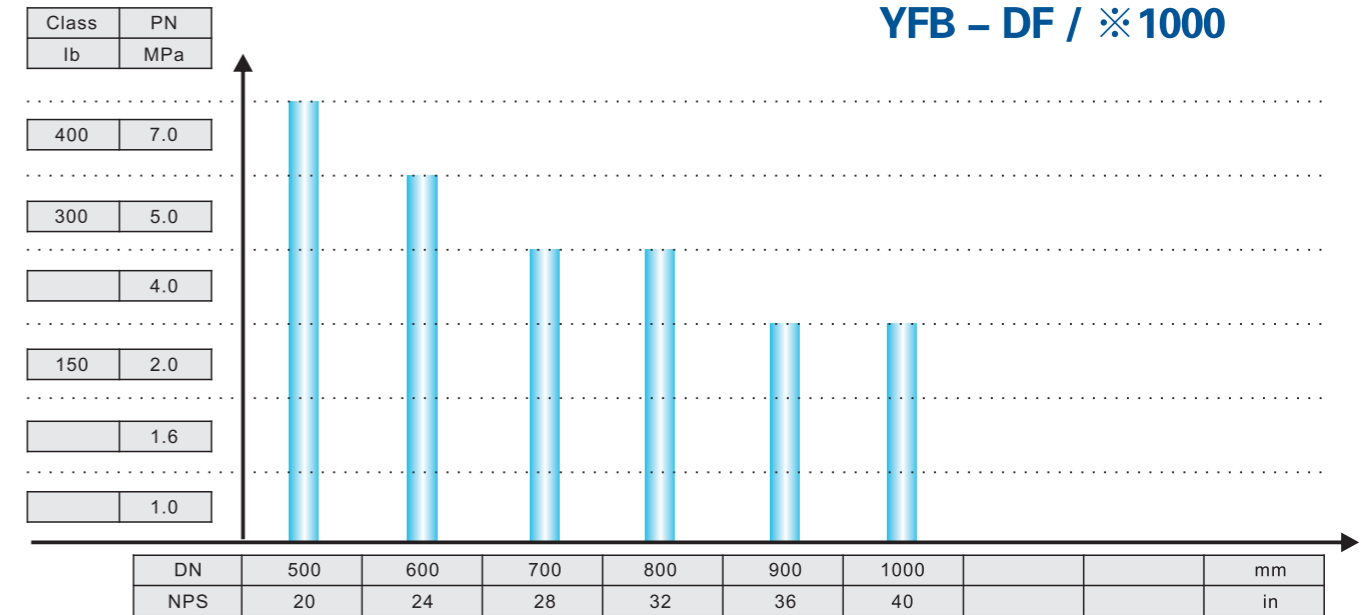
YFB - DF / ※600



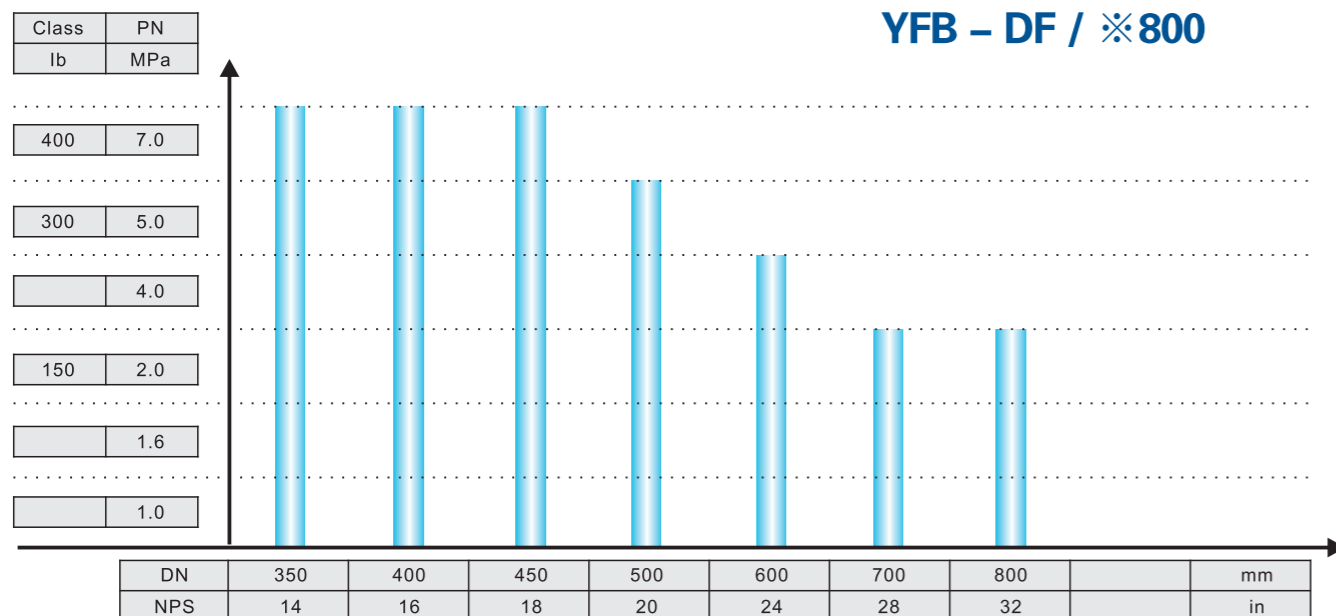
► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure

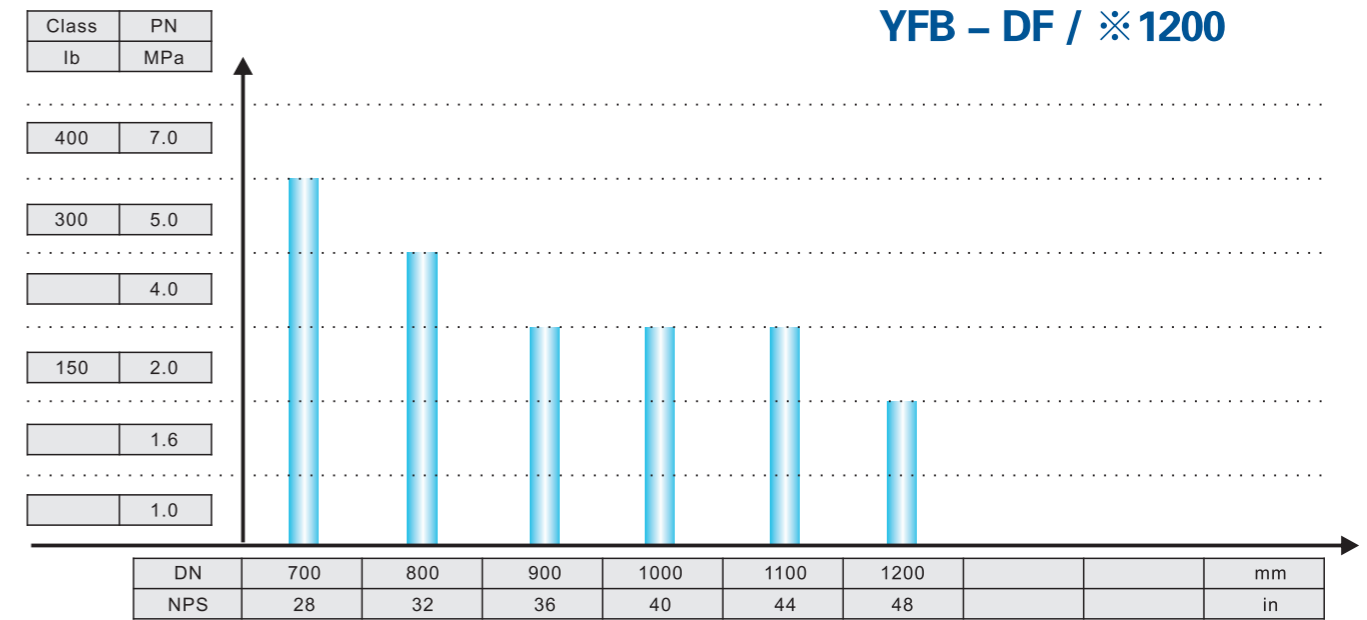
YFB - DF / ※1000



YFB - DF / ※800



YFB - DF / ※1200

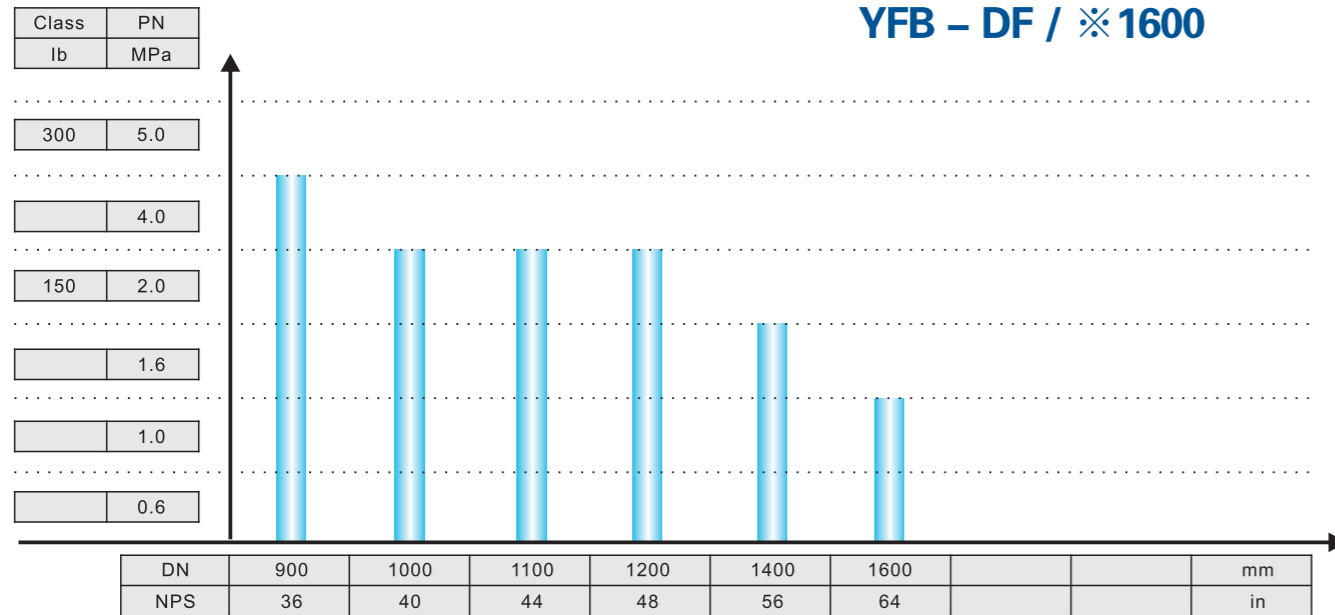




► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure

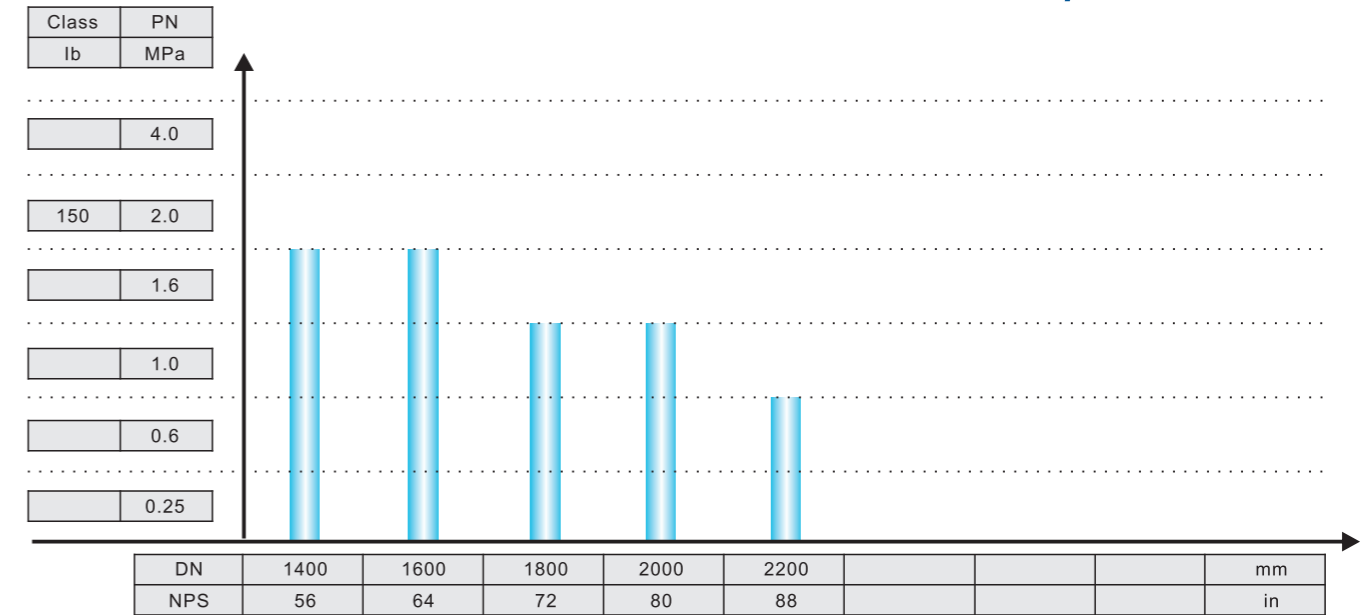
YFB - DF / ※1600



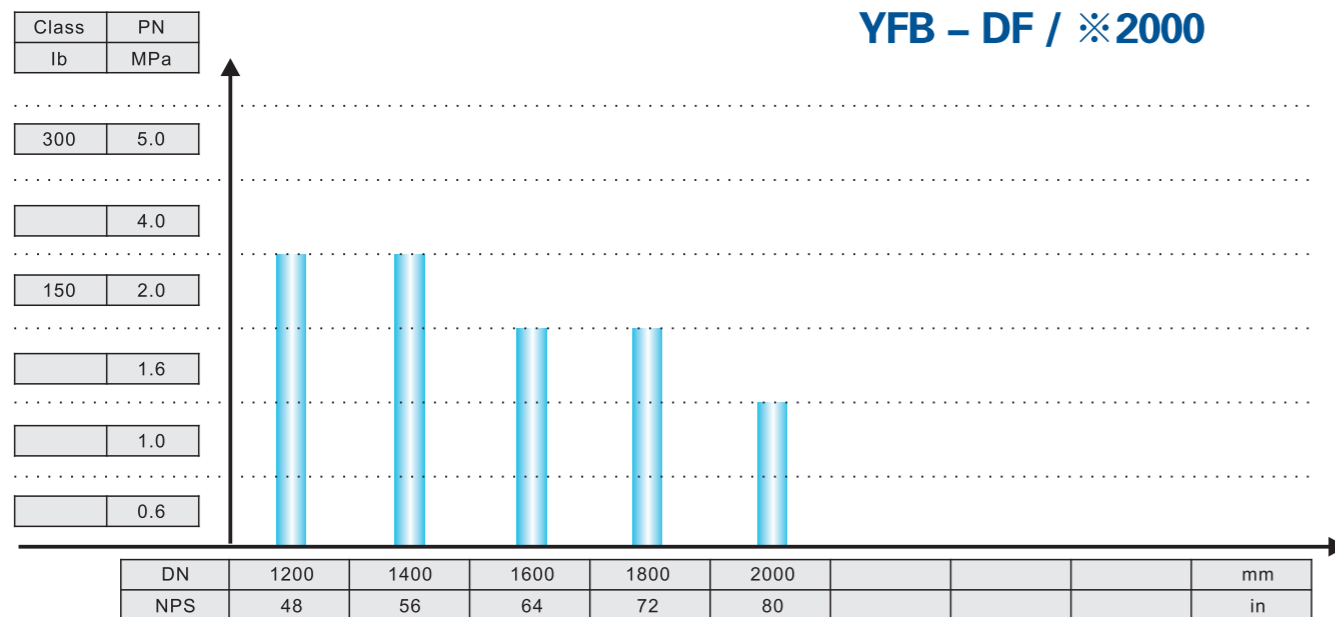
► **阀门公称通径与公称压力试验范围**

Test range of valve nominal diameter and nominal pressure

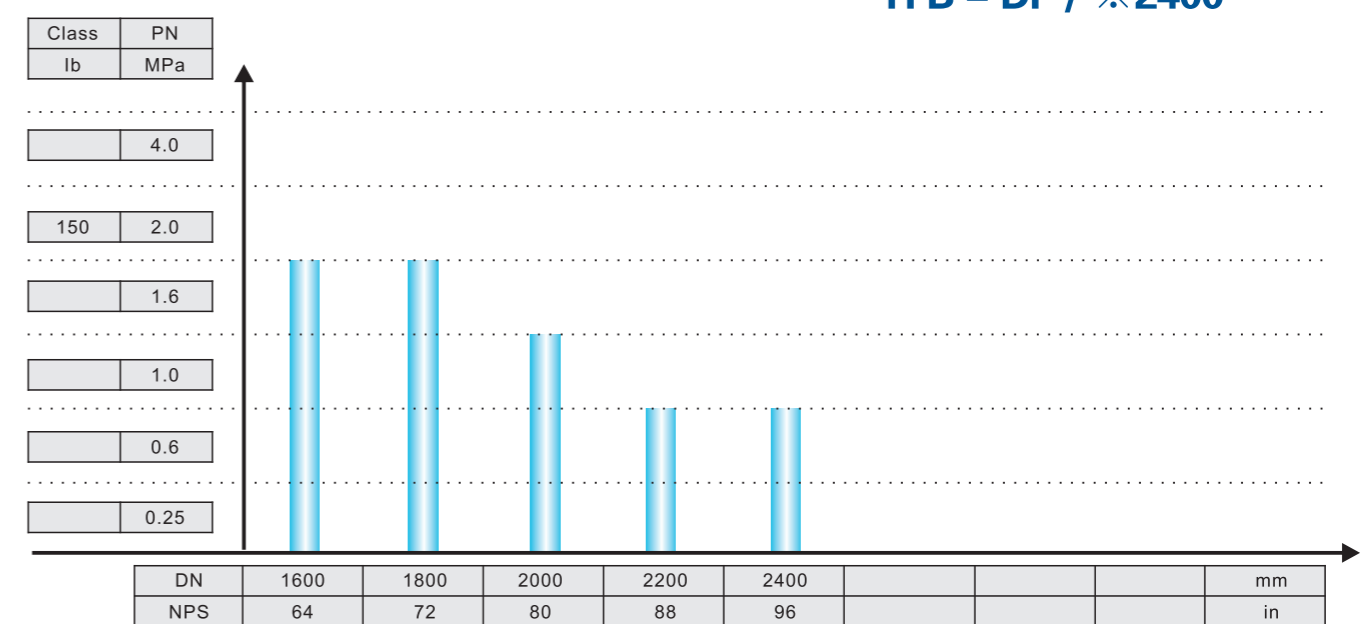
YFB - DF / ※2200



YFB - DF / ※2000



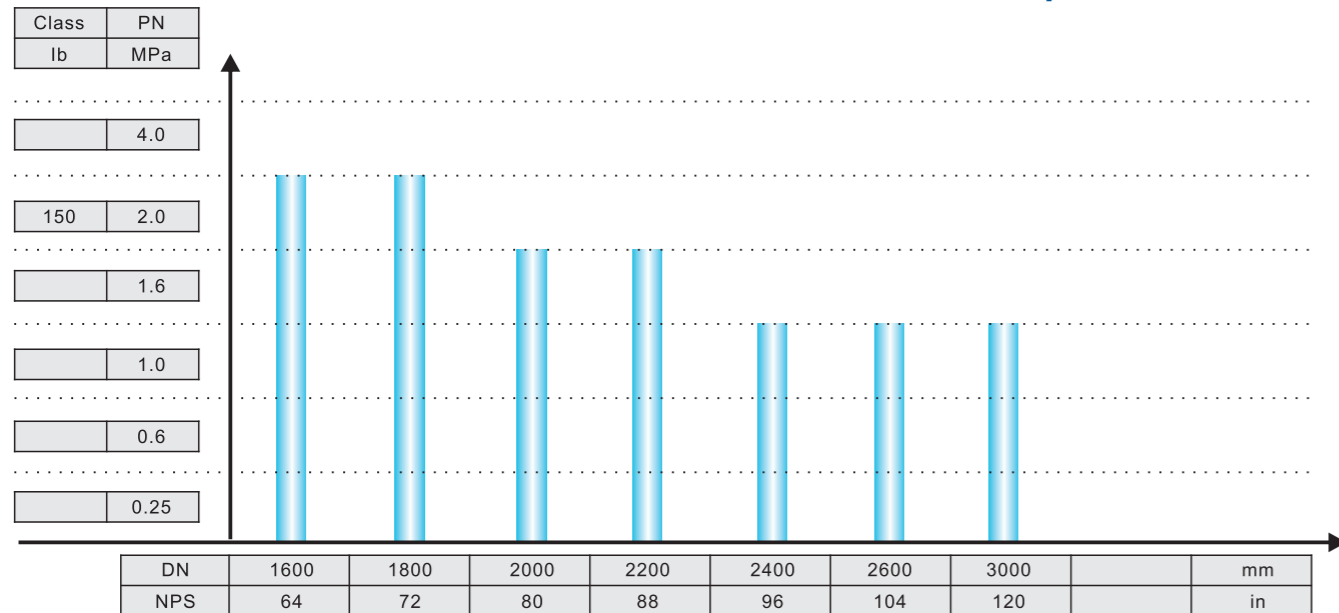
YFB - DF / ※2400



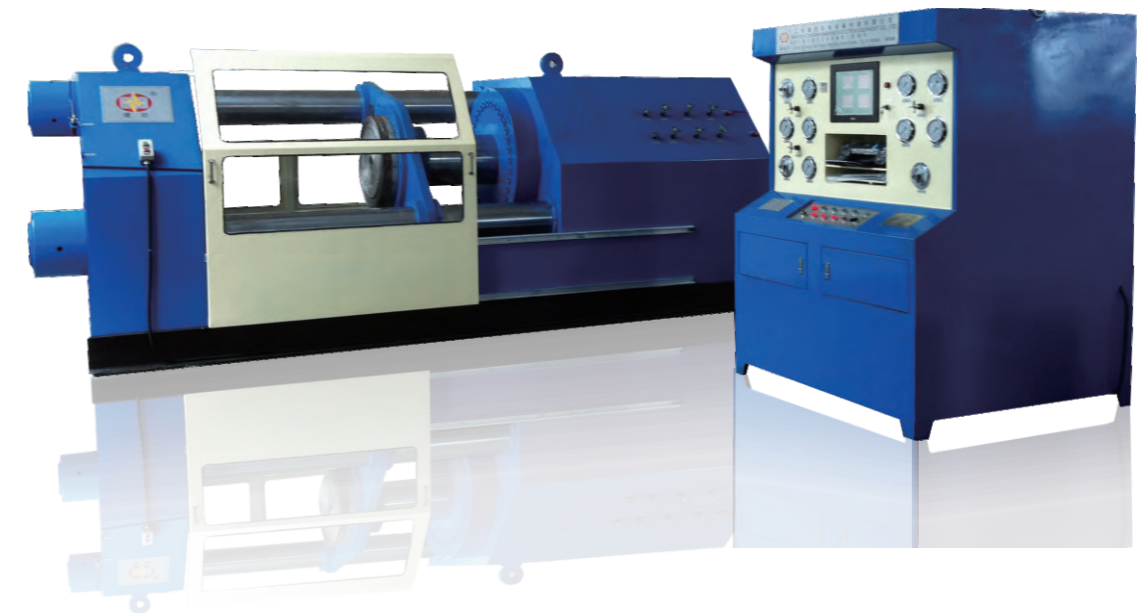
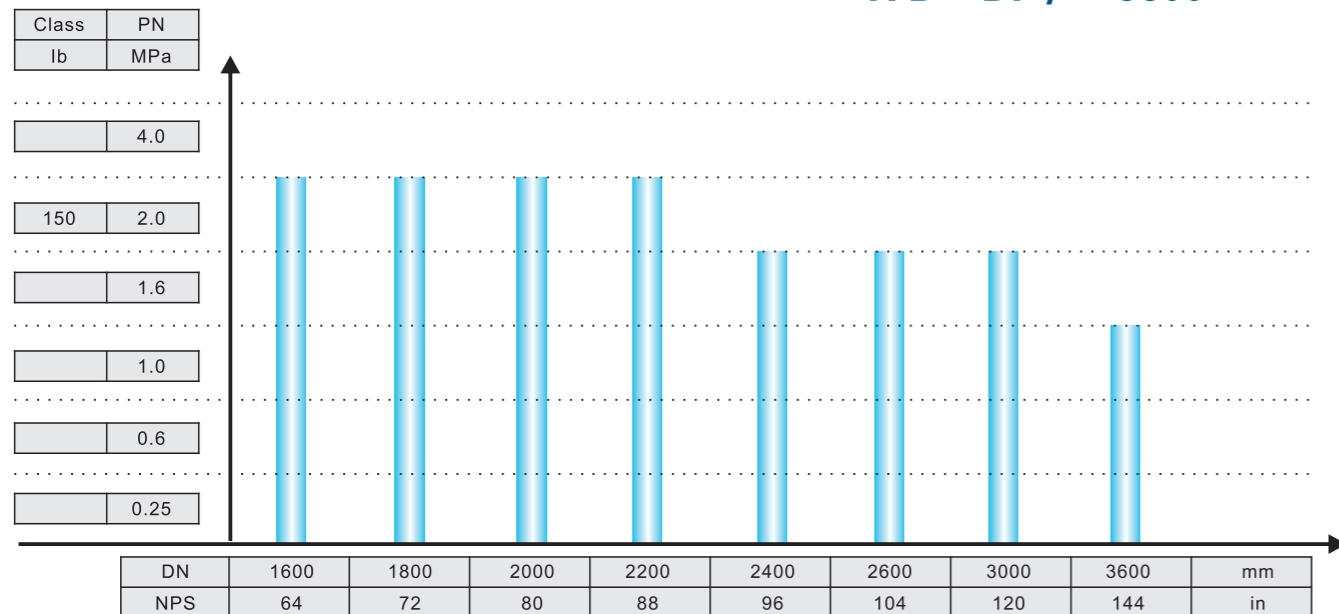
► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure

YFB - DF / ※3000



YFB - DF / ※3600



► 技术性能与特点

- ✦ 液压驱动顶压式阀门试验台适用于各种连接型式阀门的检测，建议配置“伺服控制系统”；
- ✦ 螺杆驱动顶压式阀门试验台适用于内通道密封型式进行阀门的检测，若需采用平面密封、焊接坡口密封型式，需选配自举缸系统；
- ✦ 试验介质为水或气（6 bar气源用户自备，试验介质水循环使用），通过管路控制阀进行切换；
- ✦ 设备标配低压水注入、高压水注入和保压计时的自动控制系统；
- ✦ 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- ✦ 液压顶紧（螺杆顶紧）与水压卸荷有安全互锁；
- ✦ 客户可选配以下附加功能及配置：触摸屏电脑监测系统；伺服控制系统；自举缸系统。

► Technical performance and feature

- ✦ Top cylinder valve test bench is suitable to have a test for various connection types of valves, we advise you equip "servo control system"
- ✦ Top screw valve test bench is suitable to have a test for inner tunnel sealing valves, if a user selects plane or welded groove sealing valves, you need to choose bootstrap tank system;
- ✦ Test medium is water or air(6 bar gas source supplied by customer,test medium water can be recycling), can be changed over by pipeline control valve;
- ✦ Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic pressing device (top screw) has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Touch screen computer monitoring system;Servo control system;Bootstrap tank system.



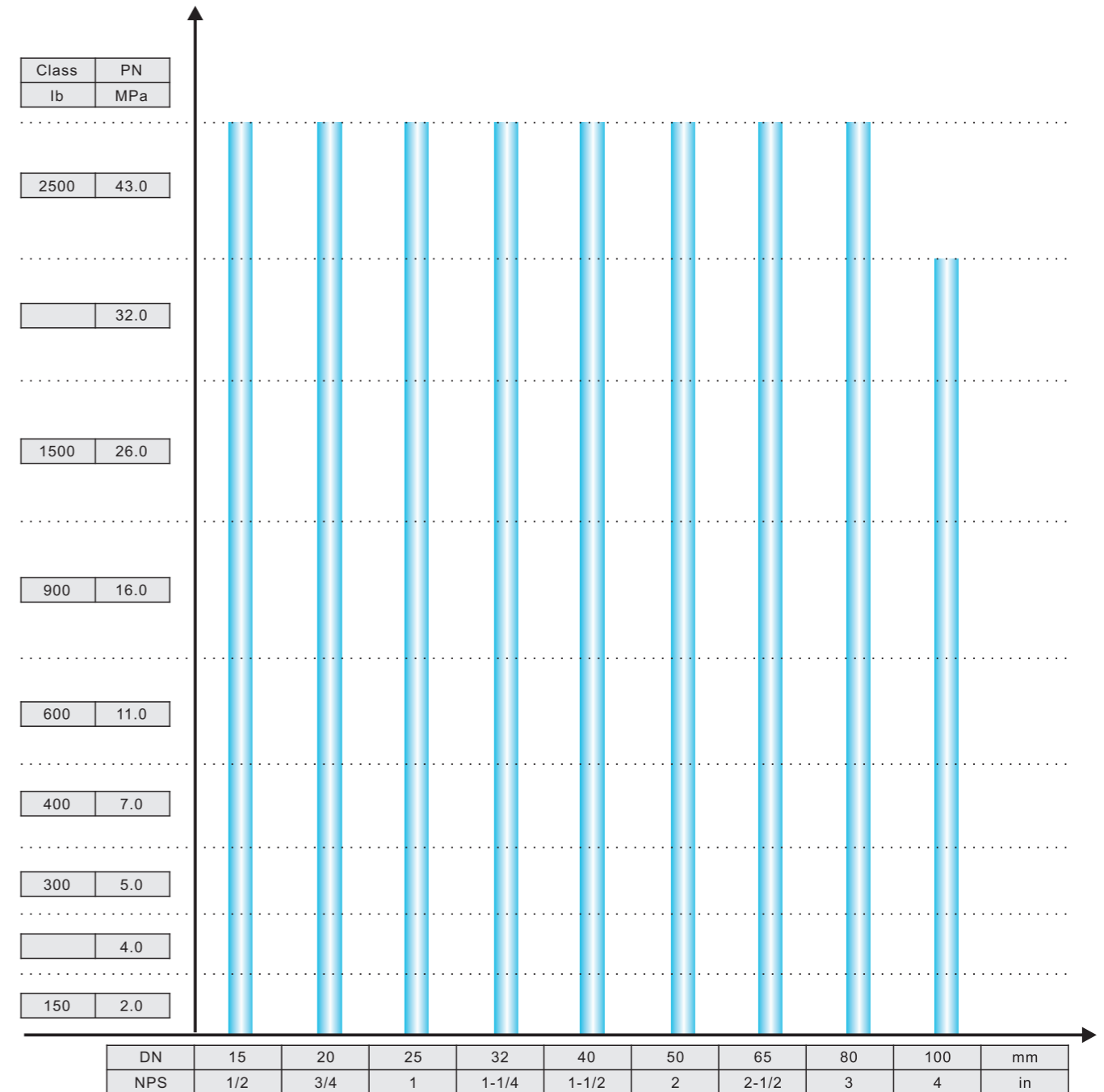
► **主要技术参数及规格**
 Main technical parameters and sizes

型号规格 Model specification		YFB - D※ / ※100	YFB - D※ / ※200	YFB - D※ / ※300	YFB - D※ / ※400	YFB - D※ / ※500	YFB - D※ / ※600	YFB - D※ / ※800	YFB - D※ / ※1000	YFB - D※ / ※1400	YFB - D※ / ※1600
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300	150 - 400	250 - 500	300 - 600	400 - 800	600 - 1000	800 - 1400	900 - 1600
	公称压力Class / lb PN/Mpa Nominal pressure	150-2500	150-2500	150-2500	150-2500	150-2500	150-1500	150-1500	150-1500	150-1500	150-1500
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min.valve face-to-face dimension	108	178	203	267	330	356	406	508	(2)	(2)
	最长结构长度 mm The max.valve face-to-face dimension	578	794	991	991	1092	1232	1651	(2)	(2)	(2)
盲板间距范围 ⁽²⁾ Blind flange spacing	最小间距mm Min.space between	90	160	180	245	300	325	375	475	(2)	(2)
	最大间距mm Max.space between	650	900	1100	1100	1220	1370	1800	(2)	(2)	(2)
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3									
	排量ml / r Displacement	6.3	16	25	25	40	40	63	63	80	80
	高压 (增压) MPa Boosting	≤ 31.5									
	系统调压范围MPa Pressure adjusting range	≤ 6.3									
电源 Power	电压V/频率Hz Voltage/Frequency	380 / 50									
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6	3 / 6	5.5 / 6	5.5 / 6	7.5 / 6	7.5 / 6	11 / 6	11 / 6
外形尺寸 ⁽³⁾ Overall size	长 mm (L)	2500	3200	3500	3500	4200	4700	5100	5800	10600	11000
	宽 mm (W)	900	2100	2200	2300	2700	3100	3500	3900	6100	6300
	高 mm (H)	1650	1800	1800	1800	1800	1800	1800	1800	3000	3000
重量 Weight	kg	2500	3000	3200	5500	6900	7500	8500	45000	110000	125000

说明:
 (1)通径与压力的具体范围, 见各型号试验台的详细说明;
 (2)按用户提供的尺寸设计;
 (3)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
 (2)We design according to dimensions provided by customer;
 (3)The final size is decided by final product design.

► **阀门公称通径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure





YFB - D※ / ※200 型 顶压式阀门试验台

YFB - D※ / ※200 model (top press) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB - D※ / ※300 型 顶压式阀门试验台

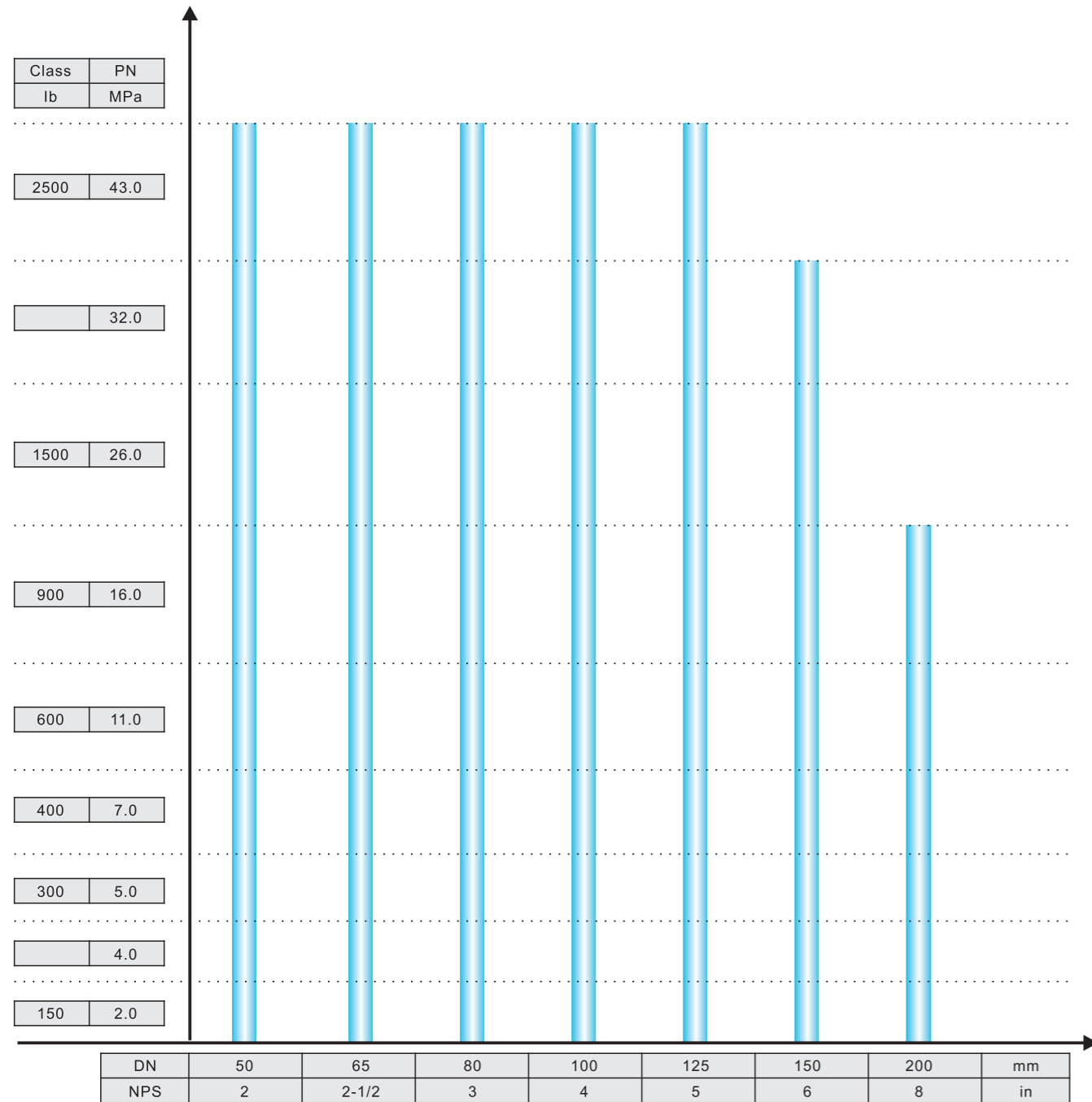
YFB - D※ / ※300 model (top press) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



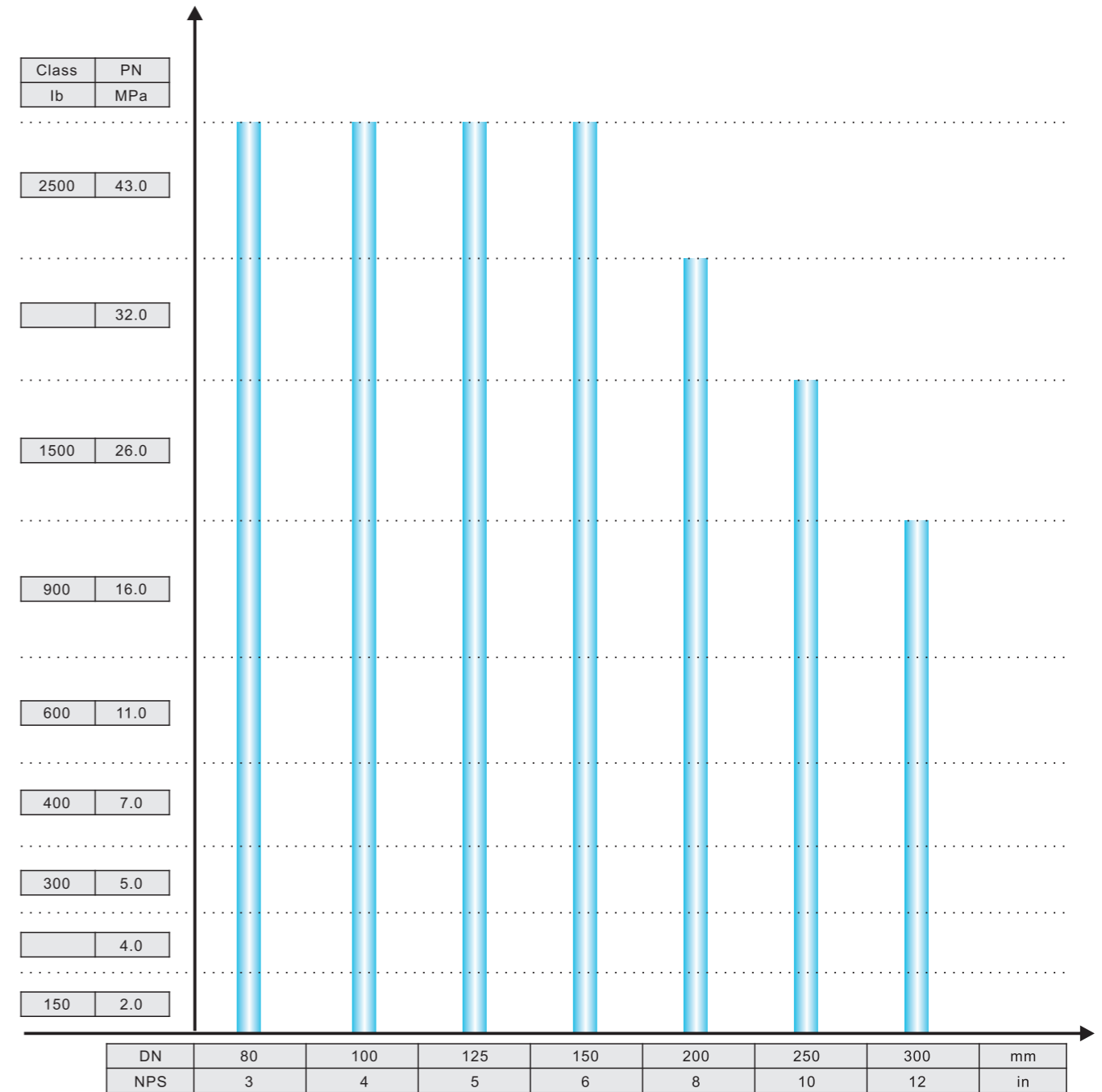
▶ 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



▶ 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure





YFB - D※ / ※400 型 顶压式阀门试验台

YFB - D※ / ※400 model (top press) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB - D※ / ※500 型 顶压式阀门试验台

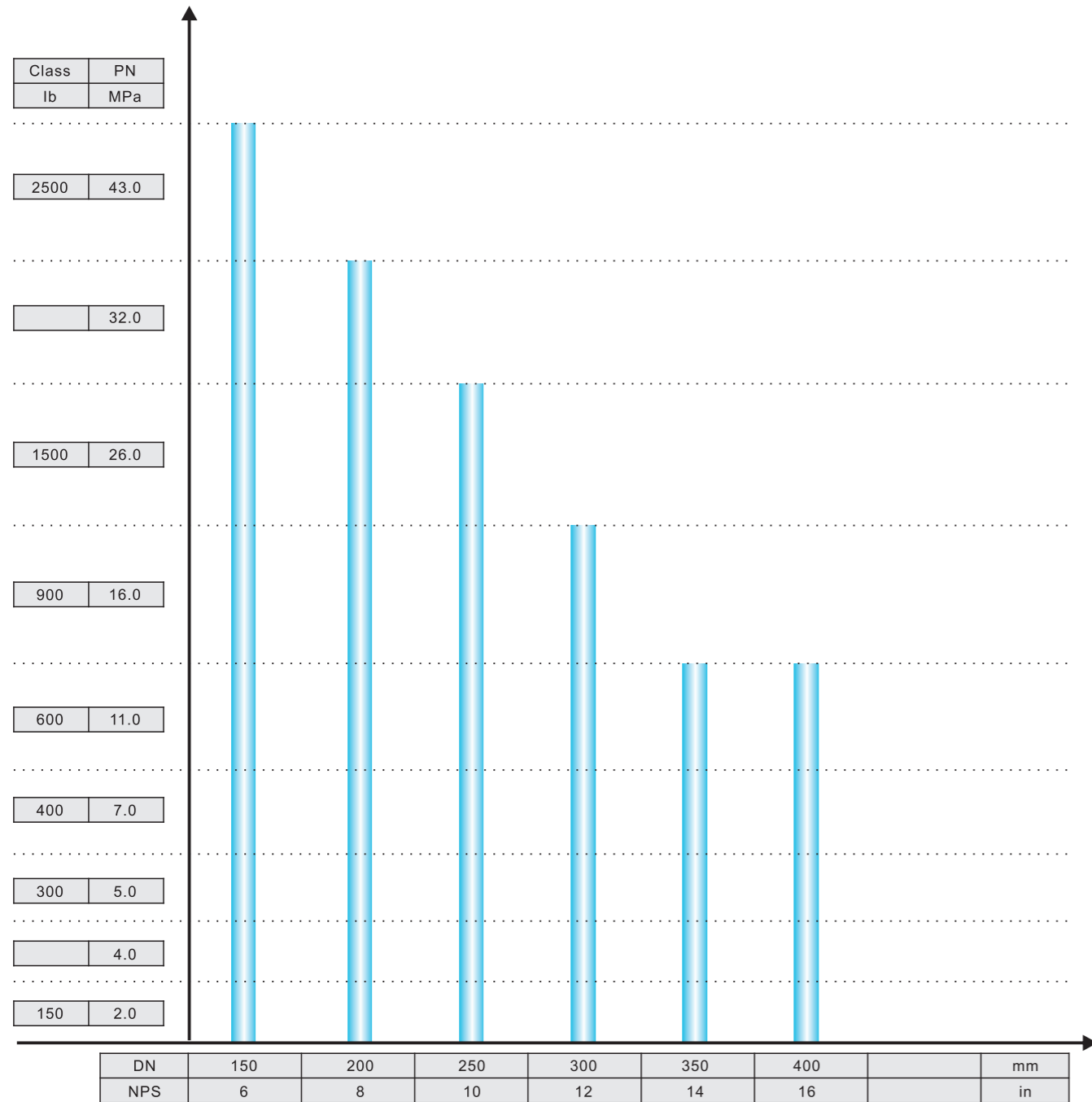
YFB - D※ / ※500 model (top press) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



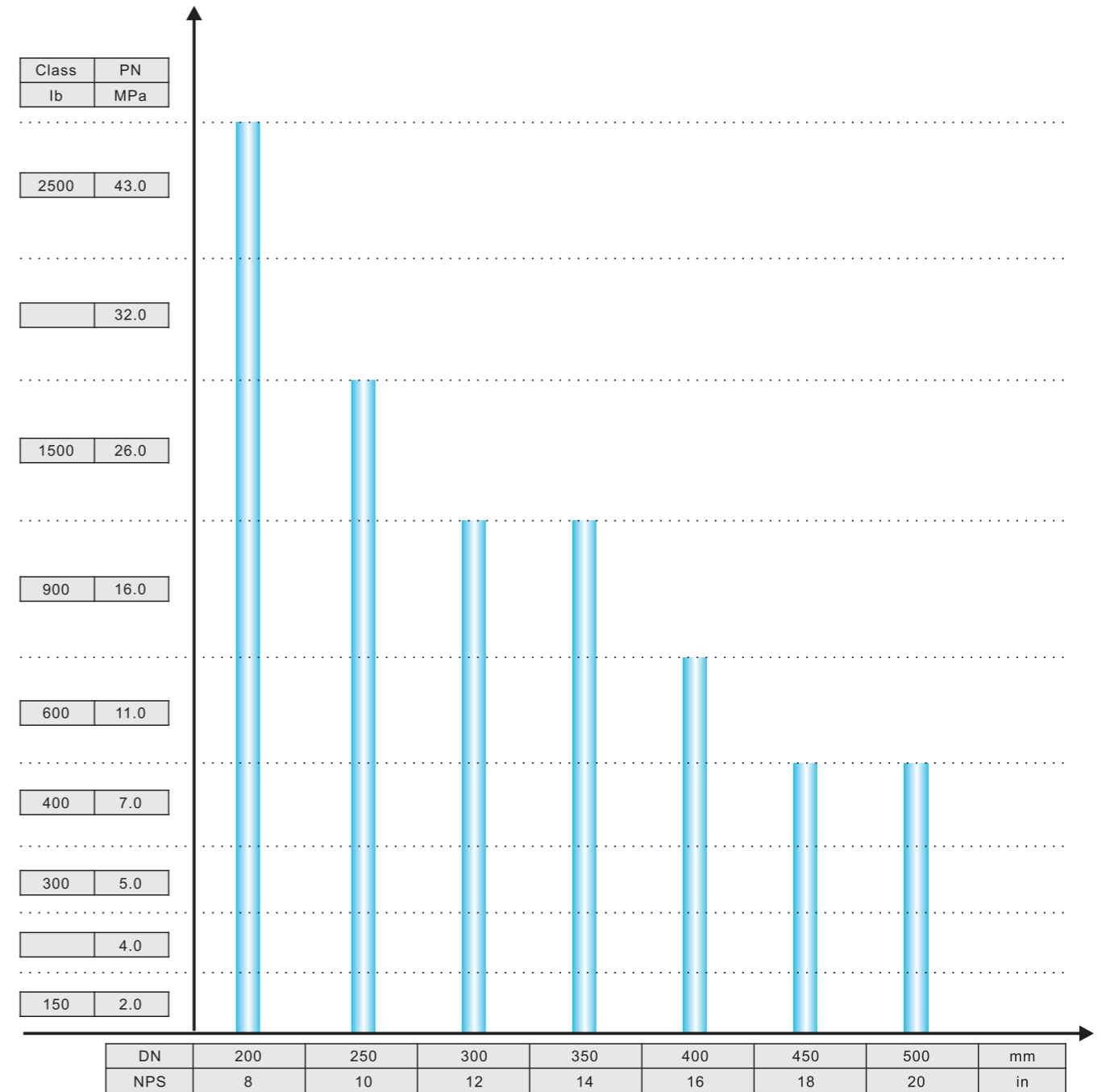
► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure





YFB - D※ / ※600 型 顶压式阀门试验台

YFB - D※ / ※600 model (top press) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB - D※ / ※800 型 顶压式阀门试验台

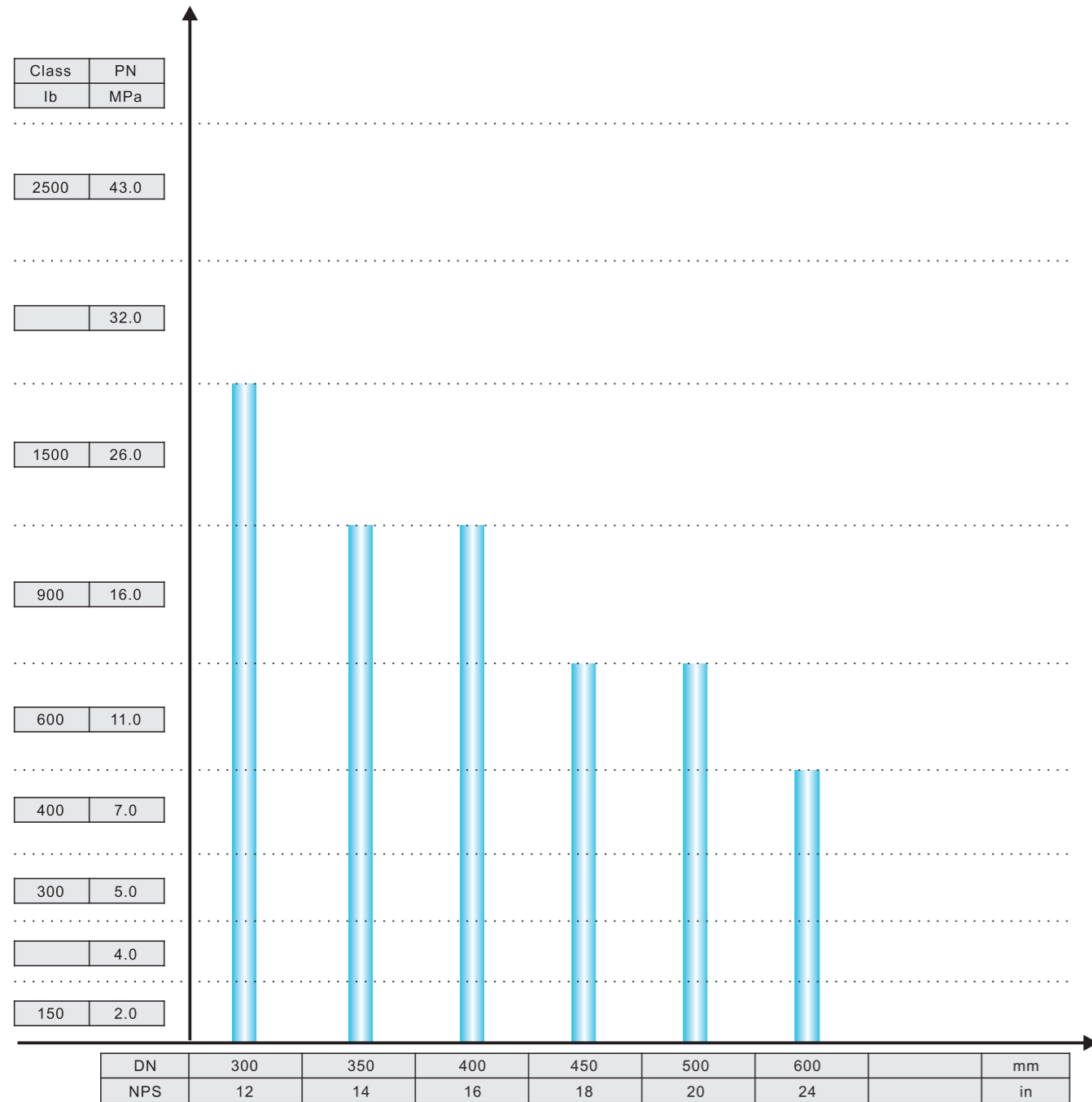
YFB - D※ / ※800 model (top press) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



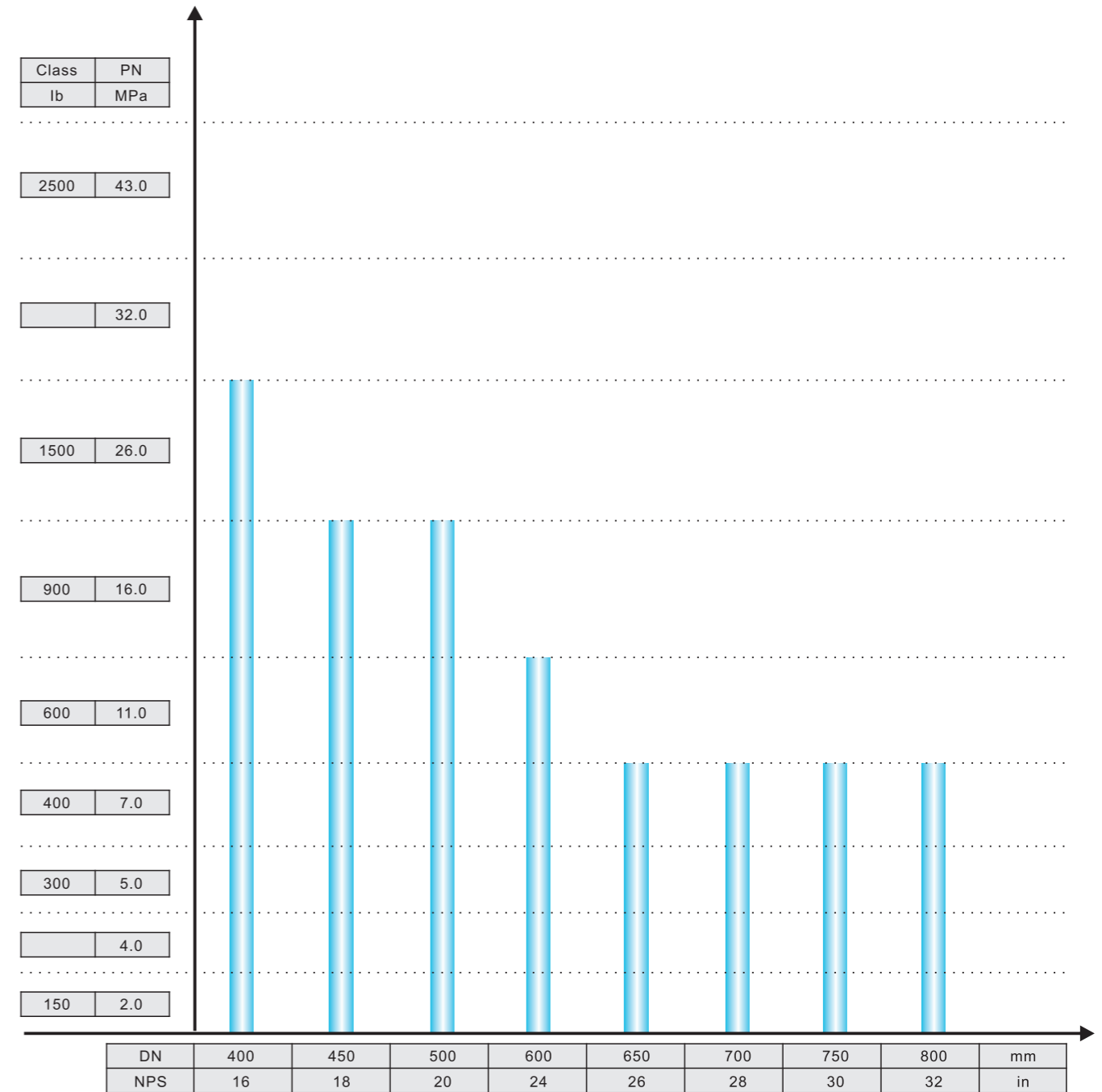
► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



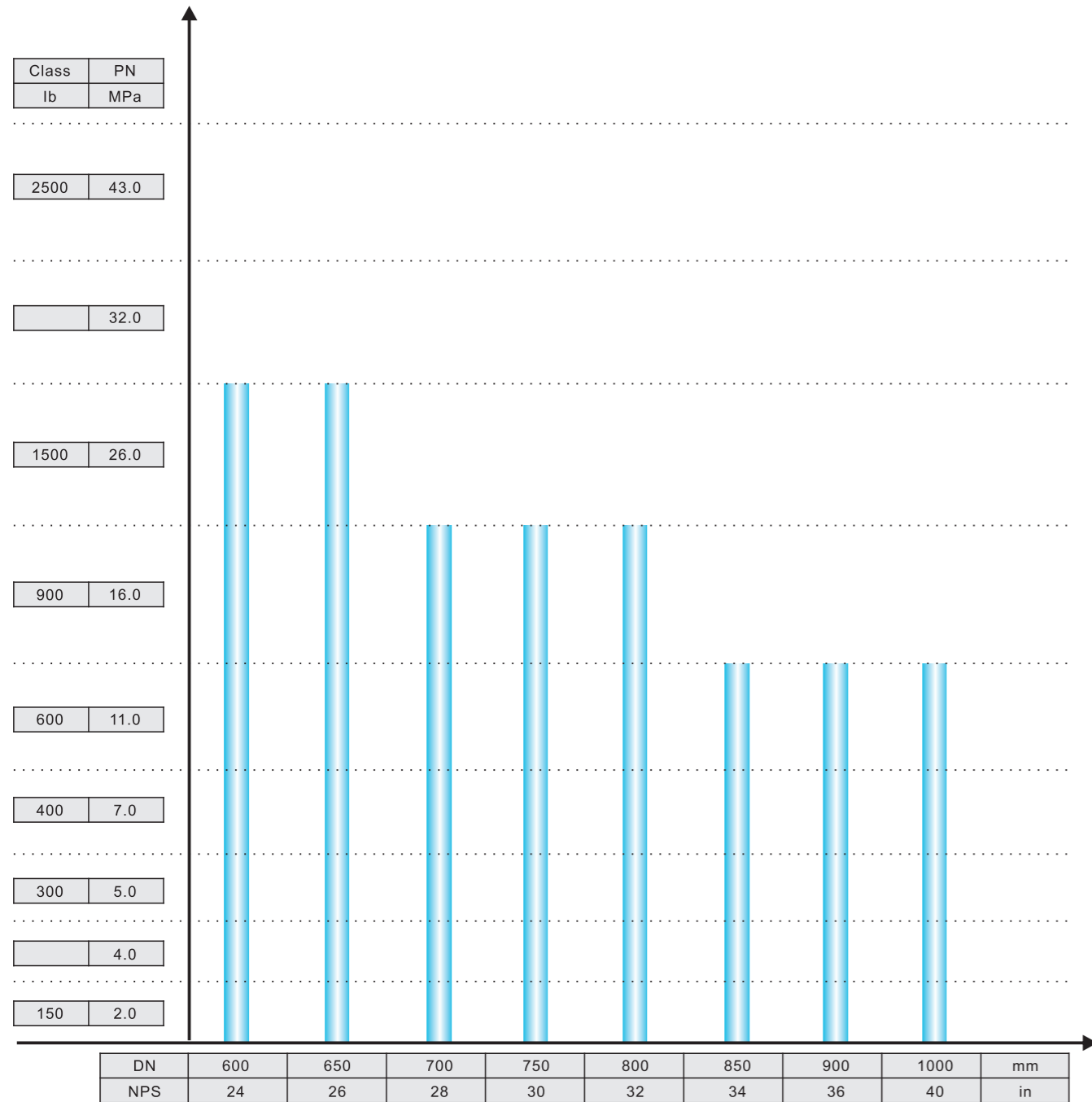
► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure

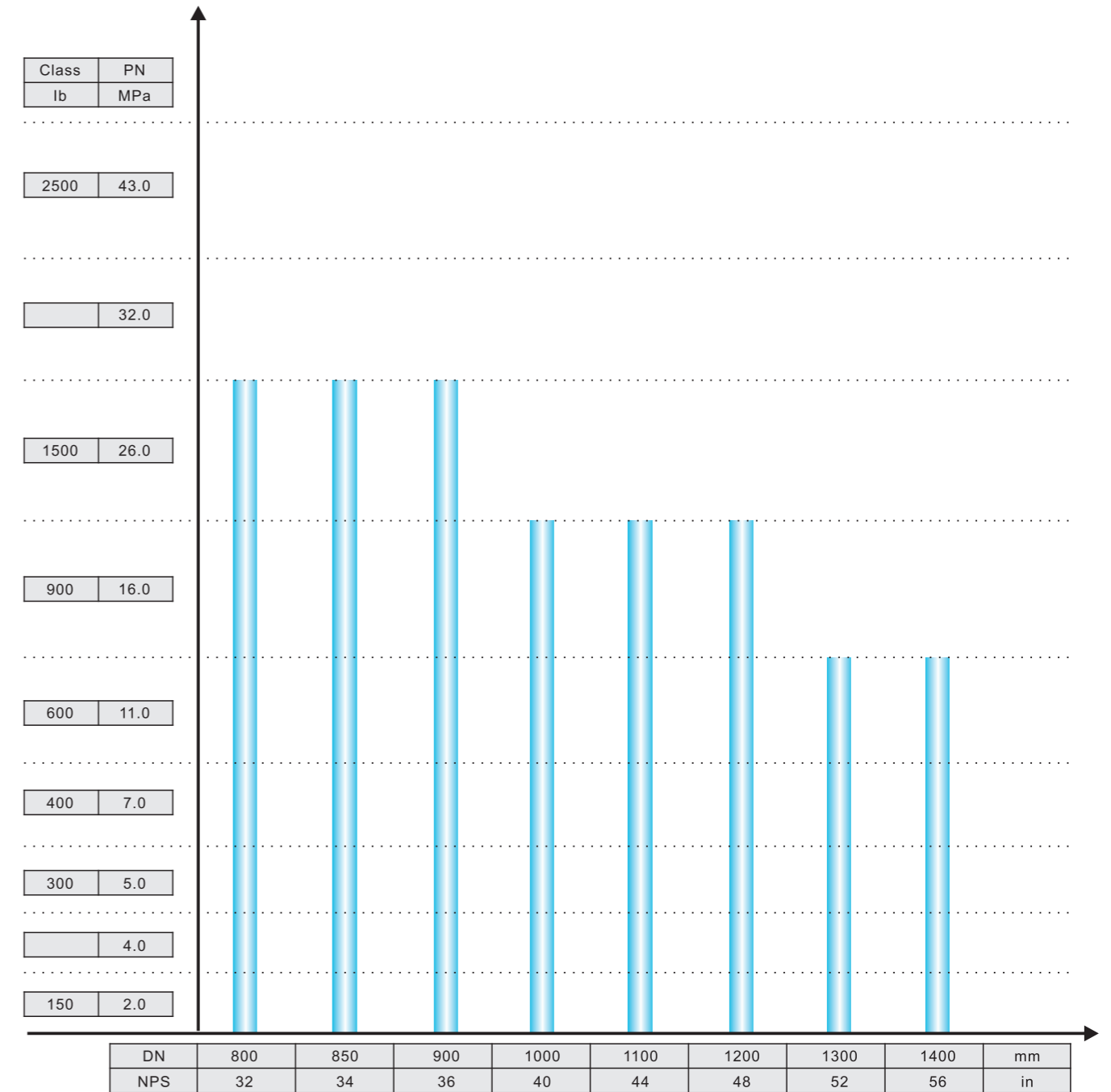




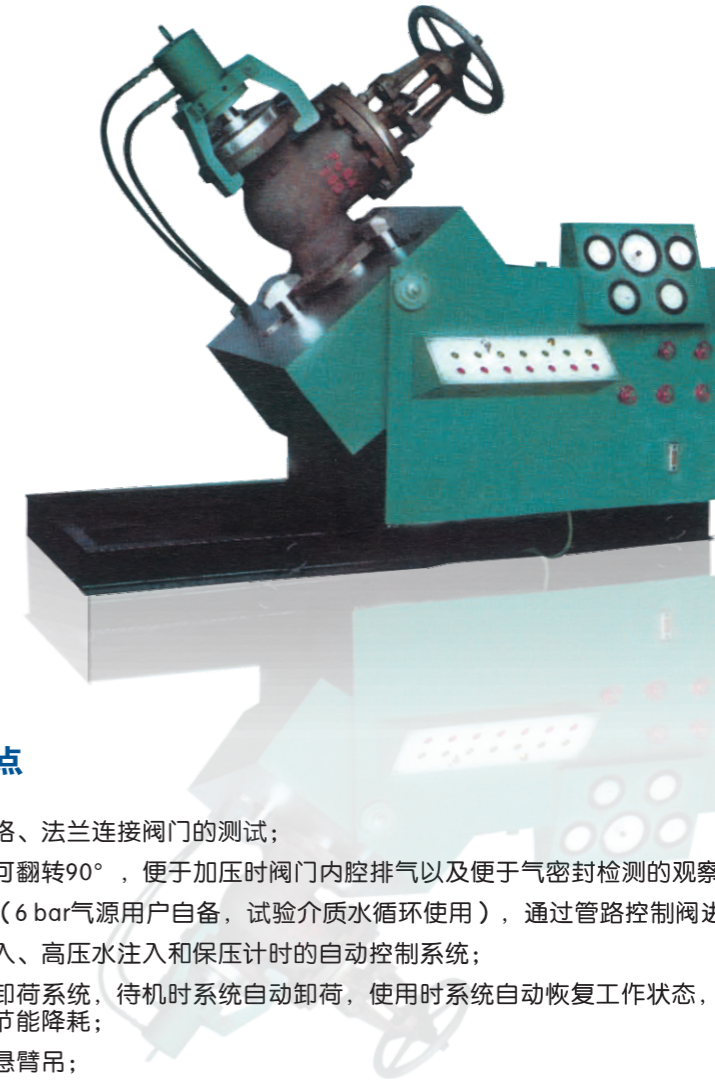
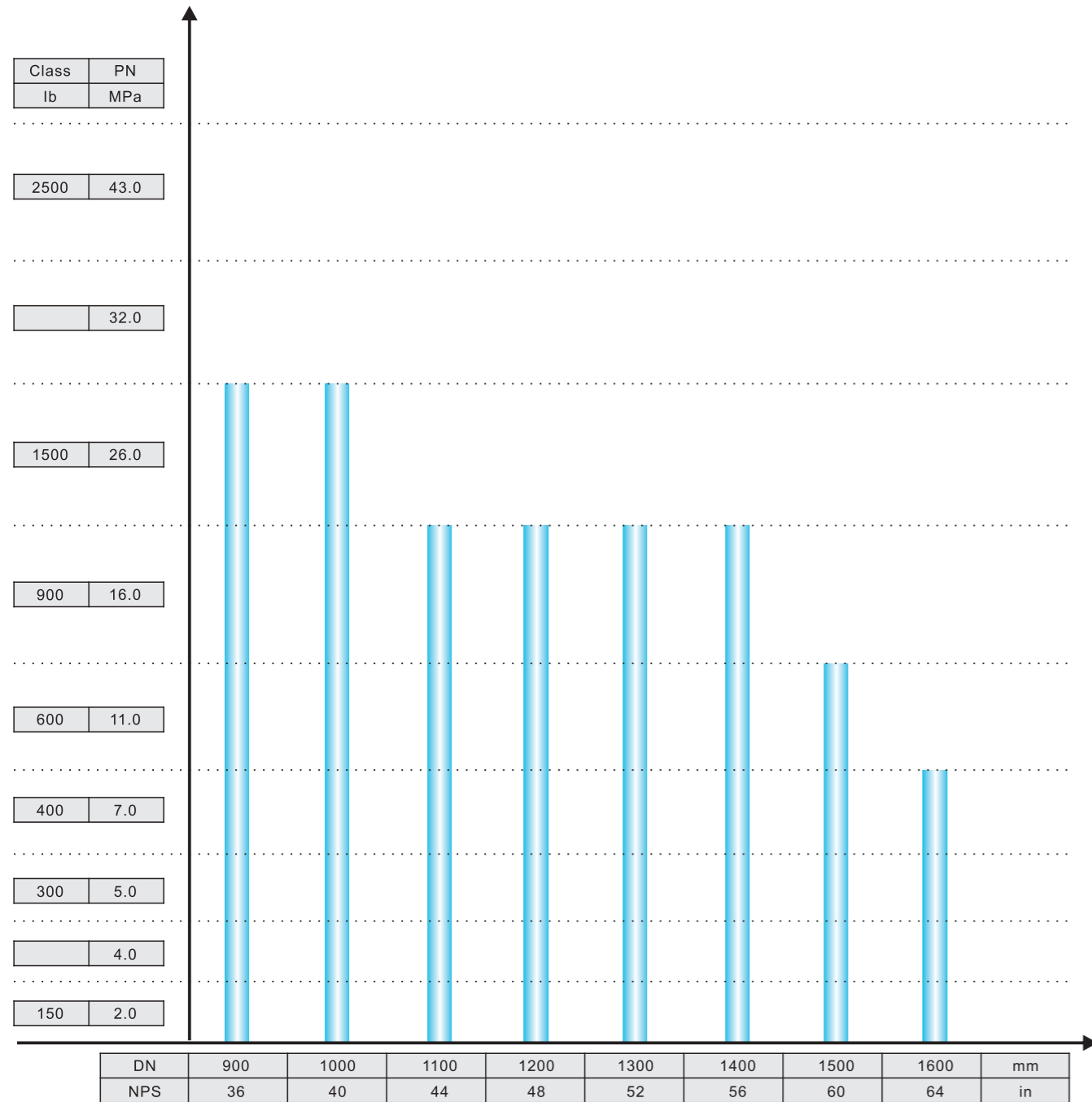
► **阀门公称口径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure



► **阀门公称口径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure



► **阀门公称通径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure



► **技术性能与特点**

- 特别适用于较小规格、法兰连接阀门的测试；
- 夹持阀门的工作台可翻转90°，便于加压时阀门内腔排气以及便于气密封检测的观察；
- 试验介质为水或气（6 bar气源用户自备，试验介质水循环使用），通过管路控制阀进行切换；
- 设备标配低压水注入、高压水注入和保压计时的自动控制系统；
- 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- 设备标配吊爪缸和悬臂吊；
- 液压夹紧与水压卸荷有安全互锁；
- 客户可选配以下附加功能及配置：触摸屏电脑监测系统。

► **Technical performance and feature**

- It is specially suitable to have a test for small sized and flanged end valves;
- A work table can turn 90°so that it is convenient to have air seal test and exhaust in the valve cavity when pressurization;
- Test medium is water or air(6 bar gas source supplied by customer,test medium water can be recycling), can be changed over by pipeline control valve;
- Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- Equipped crane claw cylinder and cantilever crane;
- Hydraulic clamping has safety interlock with water pressure discharge;
- Customer can choose the functions as followed: Touch screen computer monitoring system.

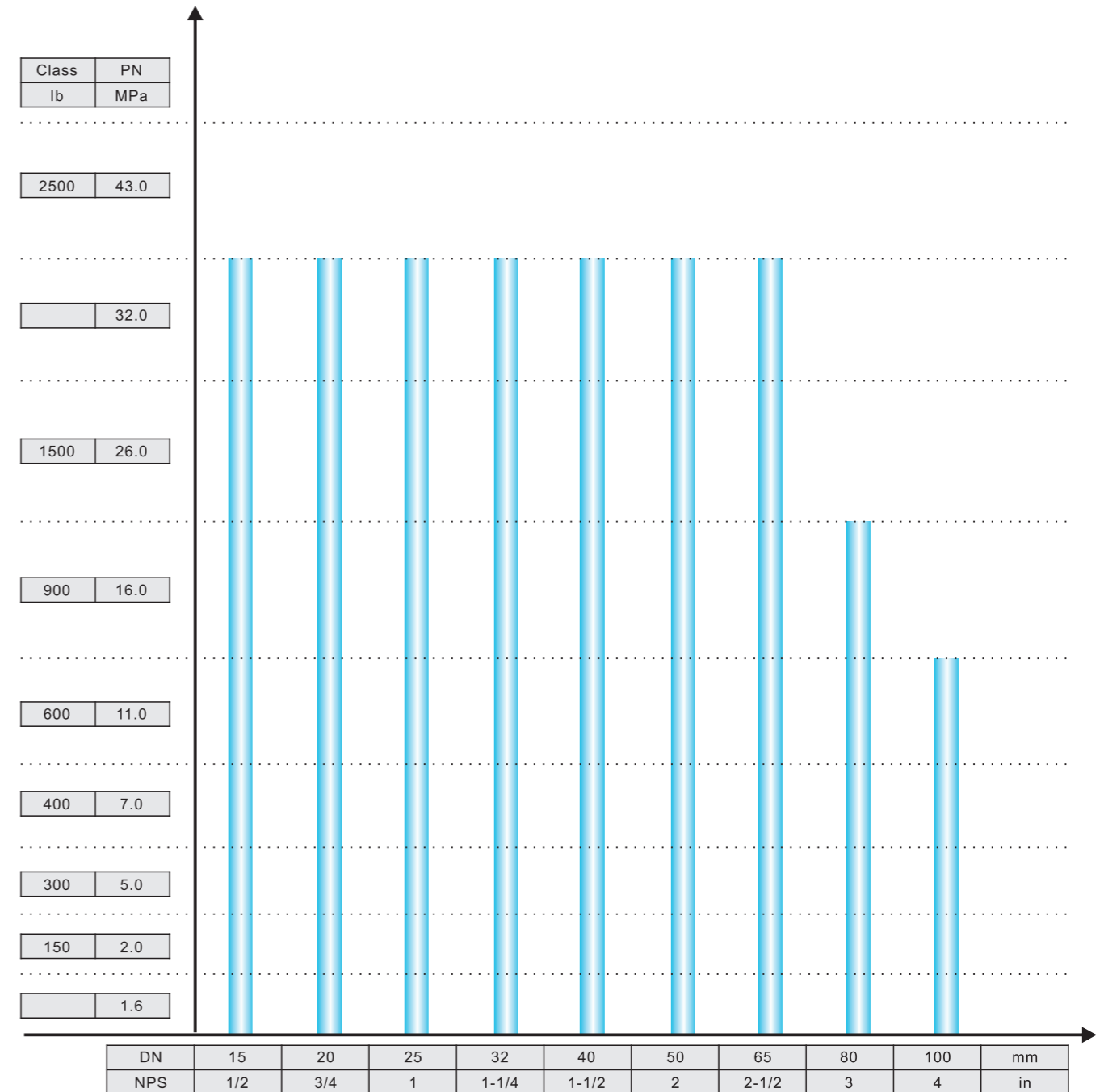


► **主要技术参数及规格**
 Main technical parameters and sizes

型号规格 Model specification		YFB-DB/※100	YFB-DB/※200	YFB-DB/※300
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 32.0	1.6 - 32.0	1.6 - 32.0
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min.valve face-to-face dimension	108	178	203
	最长结构长度 mm The max.valve face-to-face dimension	432	597	673
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min.flange diameter/thickness	90 / 10	150 / 16	190 / 19
	最大法兰直径 / 厚度mm Max.flange diameter/thickness	275 / 51	380 / 58	520 / 81
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3		
	排量ml / r Displacement	6.3	16	25
	高压 (增压) MPa Boosting	≤ 31.5		
	系统调压范围MPa Pressure adjusting range	≤ 6.3		
电源 Power	电压V/频率Hz Voltage/Frequency	380 / 50		
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	1750	1850	2050
重量 Weight	宽 mm (W)	800	1100	1100
	高 mm (H)	1850	1850	1850
	kg	1500	2000	2500

说明:
 (1)通径与压力的具体范围, 见各型号试验台的详细说明;
 (2)以最终产品设计尺寸为准。
 Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
 (2)The final size is decided by final product design.

► **阀门公称通径与公称压力试验范围**
 Test range of valve nominal diameter and nominal pressure





YFB-DB/※200 型 单头液压抱压式阀门试验台

YFB-DB/※200 model (single head) hydraulic hold pressure valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB-DB/※300 型 单头液压抱压式阀门试验台

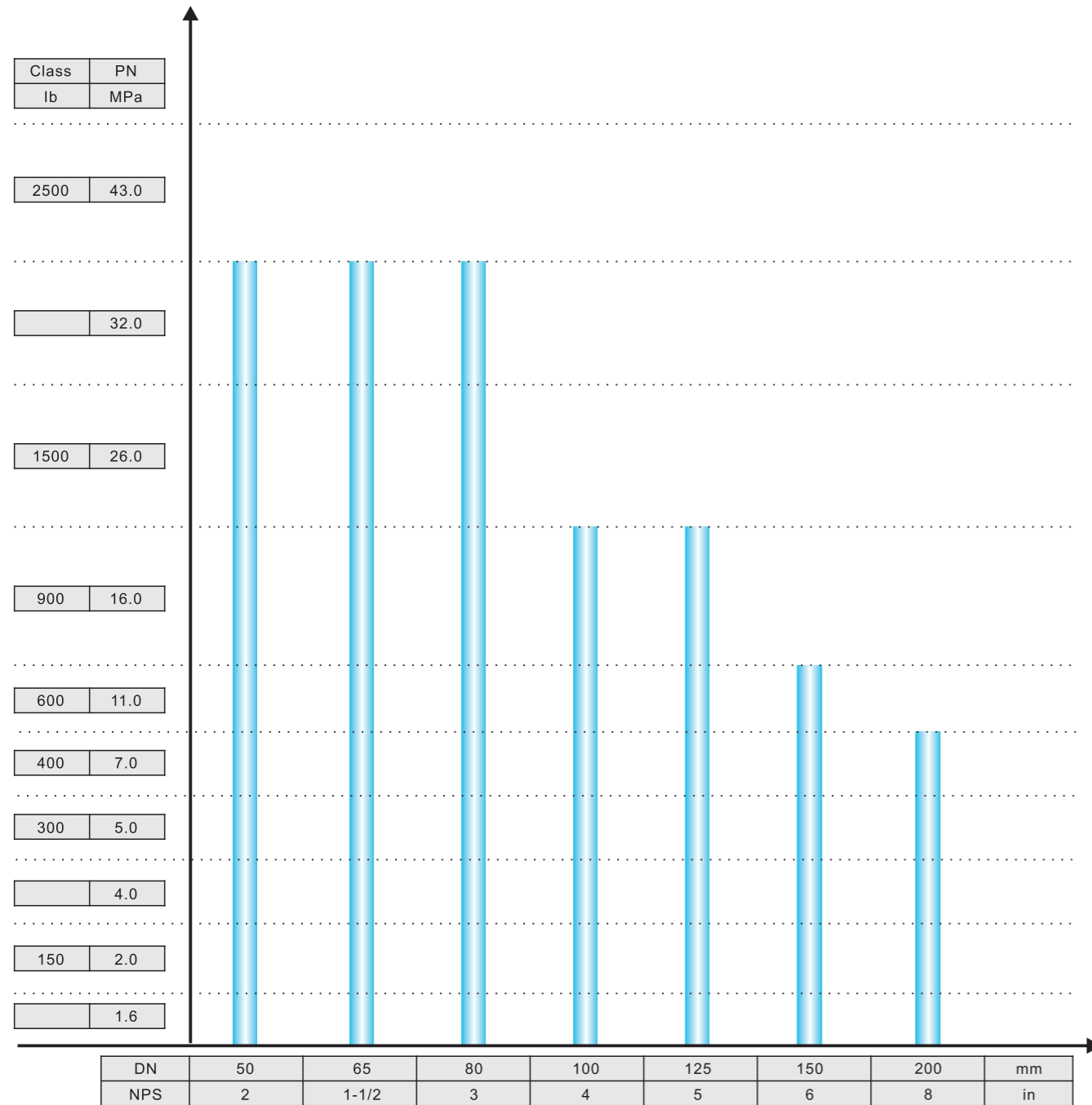
YFB-DB/※300 model (single head) hydraulic hold pressure valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



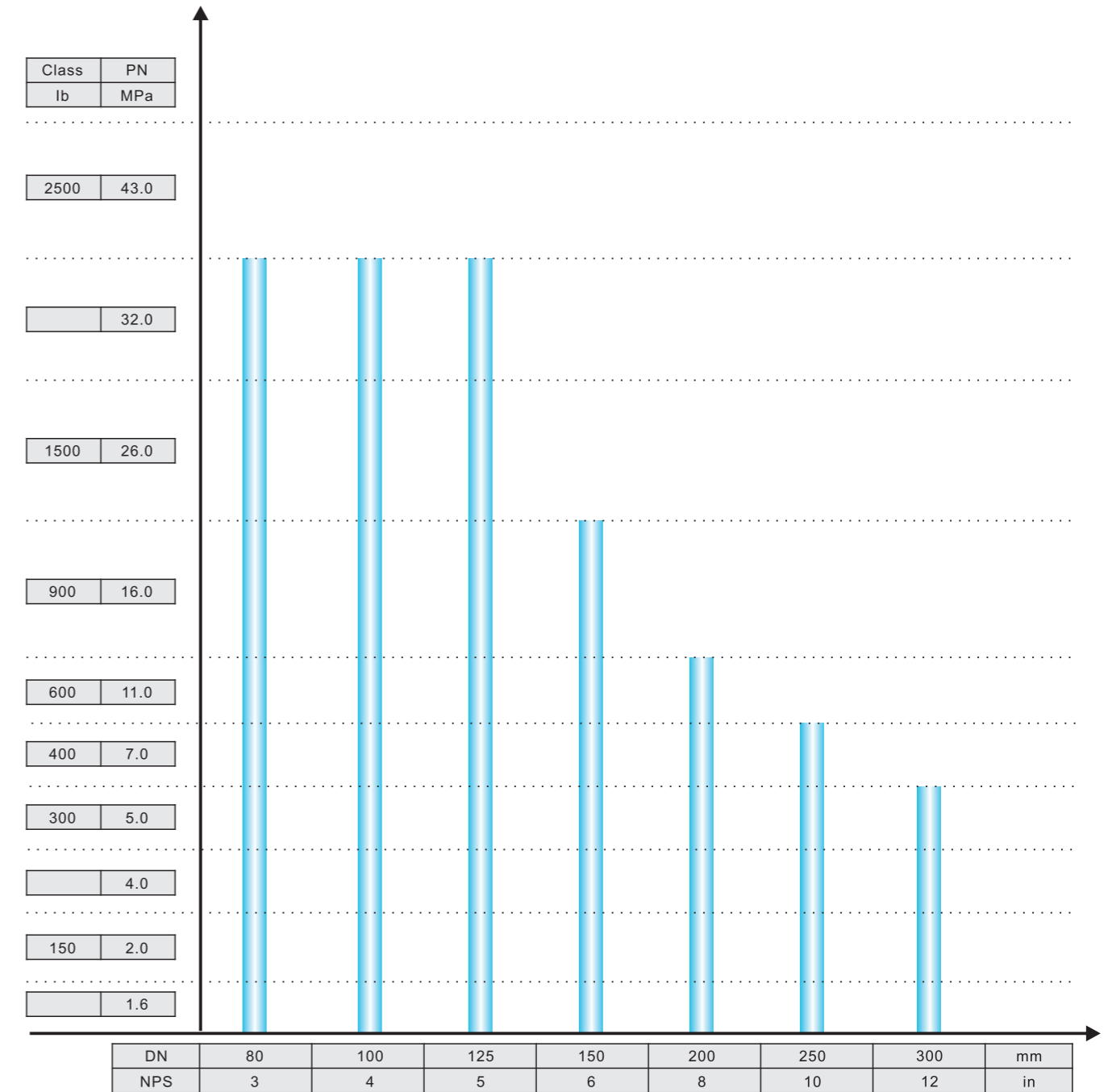
► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure





► 技术性能与特点

- ✦ 适用于安全阀整定压力和密封性能的测试；
- ✦ 试验介质为空气或氮气（气源可由用户自备）；
- ✦ 高压气源经手动减压阀加注到安全阀的内腔，缓慢调节减压阀，可测得准确的整定压力；
- ✦ 建议客户选配“触摸屏电脑监测系统”，该系统能以数字和图像曲线的型式记录测试过程，可更准确地捕捉整定压力值，打印输出检测报告可作为技术文件存档；
- ✦ 建议客户选配“安全门”，以保证气压试验过程的安全；
- ✦ 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- ✦ 液压夹紧与气压卸荷有安全互锁；
- ✦ 客户可选配以下附加功能及配置：安全门；触摸屏电脑监测系统。

► Technical performance and feature

- ✦ It is suitable to have a performance test for safety valve;
- ✦ Test medium is nitrogen gas or air(gas source is supplied by customer);
- ✦ High pressure air fill in the cavity of safety valve through manual relief valve, you can get accurate set pressure by adjusting relief valve slowly;
- ✦ We advise you to choose "touch screen computer monitoring system", the system record testing process in digital and image curve, can be more accurately capture set pressure value and print out testing statement as technical document archive;
- ✦ We advise you to choose "safety door" to make sure safety during air seal test process;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic clamping has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Safety door ; Touch screen computer monitoring system.

► 主要技术参数及规格

Main technical parameters and sizes

型号规格 Model specification		YFB-A/※100	YFB-A/※200	YFB-A/※300
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 32.0	1.6 - 32.0	1.6 - 32.0
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min.flange diameter/thickness	90 / 10	150 / 16	190 / 19
	最大法兰直径 / 厚度mm Max.flange diameter/thickness	290 / 55	380 / 63	520 / 90
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3		
	排量ml / r Displacement	6.3	16	25
	高压（增压）MPa Boosting	≤ 31.5		
	系统调压范围MPa Pressure adjusting range	≤ 6.3		
电源 Power	电压V/频率Hz Voltage/Frequency	380 / 50		
电机 Motor	功率kW / 极数P Power/Pole	1.5 / 4	2.2 / 6	3 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	1750	1850	2050
	宽 mm (W)	800	1100	1100
重量 Weight	高 mm (H)	1850	1850	1850
	kg	1500	2000	2500

说明:

(1)通径与压力的具体范围，见各型号试验台的详细说明；
(2)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
(2)The final size is decided by final product design.



YFB-A/※100 型 安全阀试验台

YFB-A/※100 model (safety valve) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB-A/※200 型 安全阀试验台

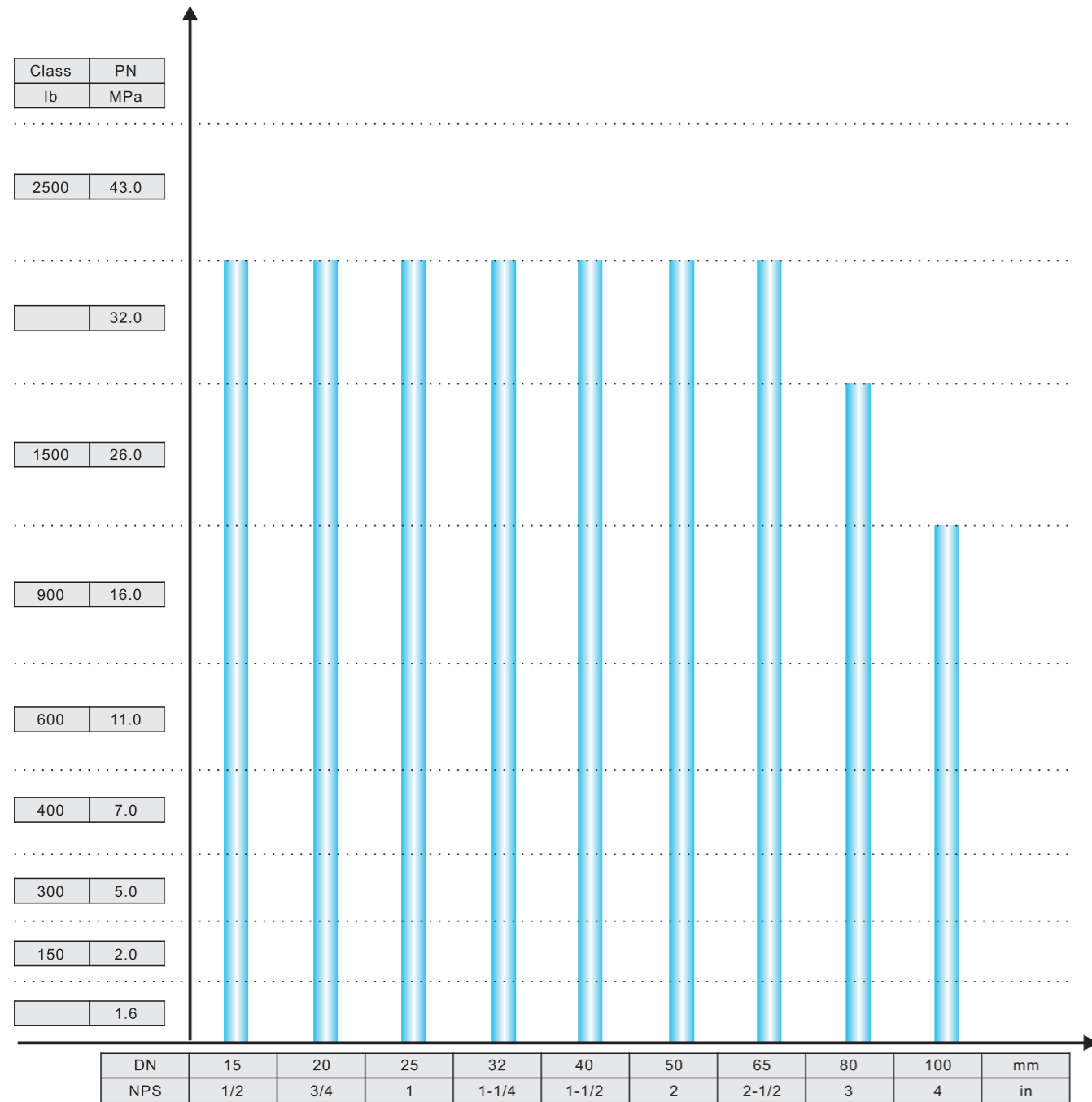
YFB-A/※200 model (safety valve) hydraulic valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



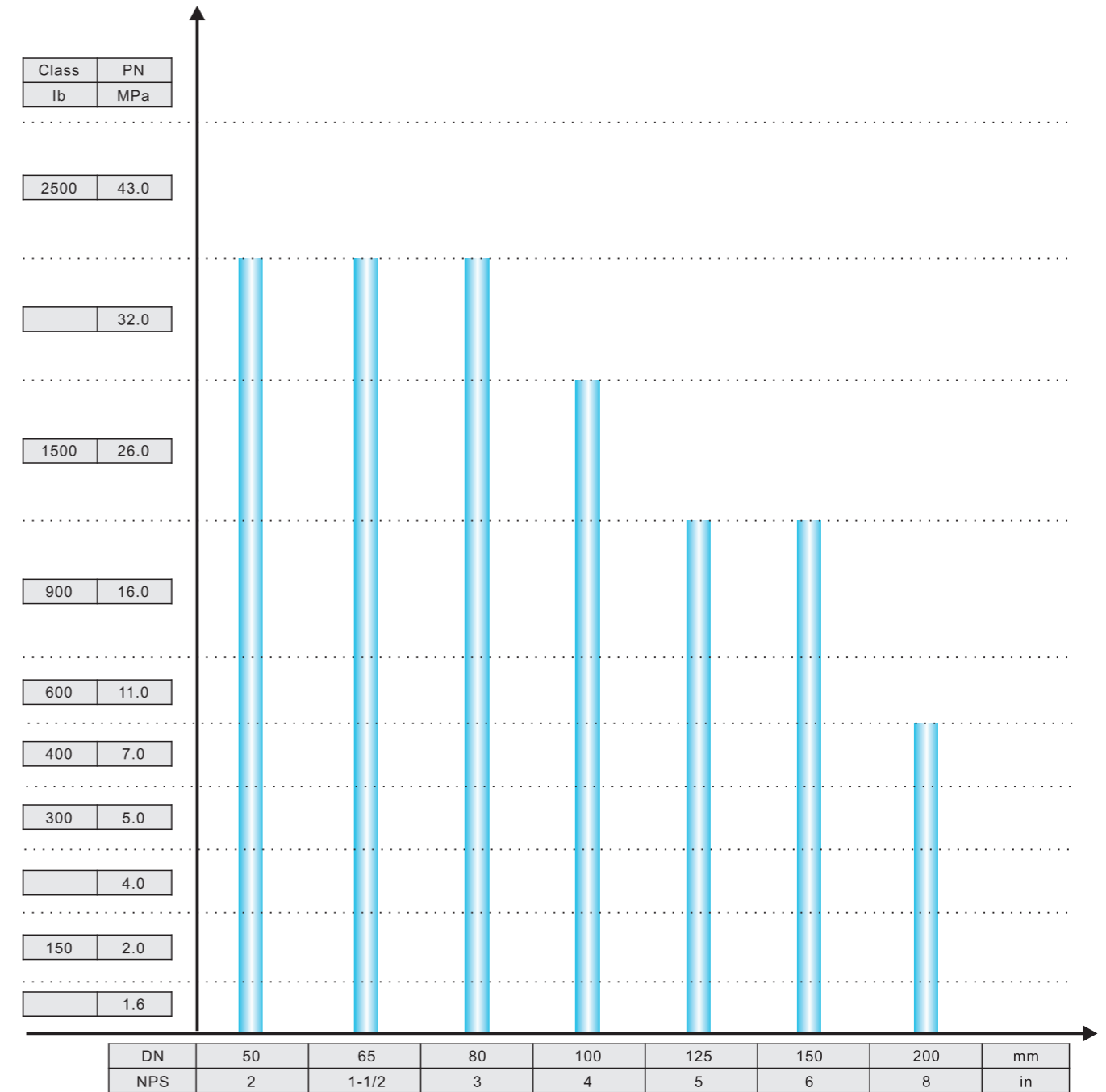
▶ 阀门公称口径与整定压力试验范围

Test range of valve nominal diameter and nominal pressure



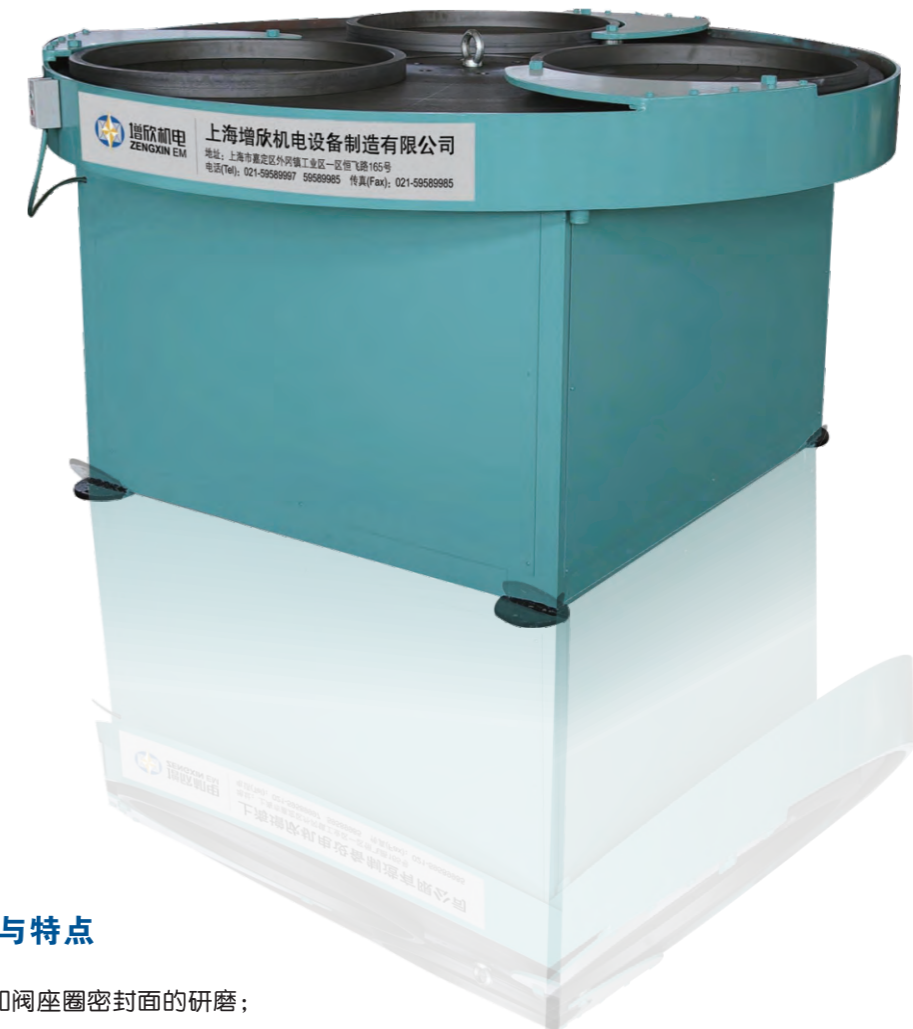
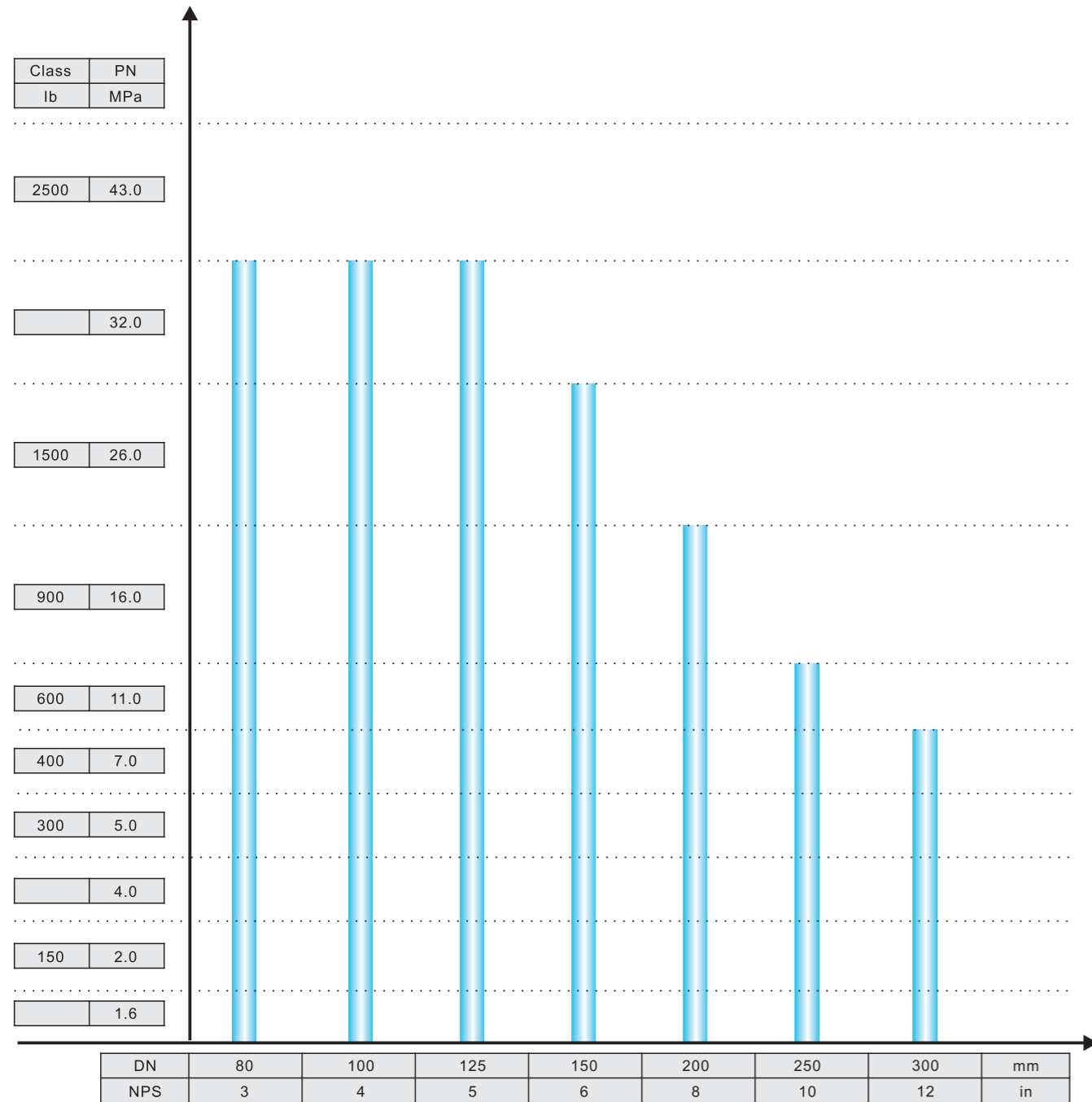
▶ 阀门公称口径与整定压力试验范围

Test range of valve nominal diameter and nominal pressure



▶ 阀门公称通径与整定压力试验范围

Test range of valve nominal diameter and nominal pressure



▶ 技术性能与特点

- ✦ 适用于阀板和阀座圈密封面的研磨；
- ✦ 阀板和阀座圈密封面研磨运动轨迹，既有公转又有自转，密封面研磨表面粗糙度可达Ra 0.8 μm，吻合度 ≥ 80 %；
- ✦ 研磨时间可预先设定，到时自动停止，并有声光提示；
- ✦ 操作轻便简单，劳动强度低，一人可值守多台设备，生产效率高。

▶ Technical performance and feature

- ✦ It is suitable to lap seating surfaces of gate and seat ring;
- ✦ A lapping movement of gate and seat ring is either revolution or rotation. Its surface roughness reaches Ra 0.8 μm and tightness ≥ 80 %;
- ✦ Lapping time can be pre-set, when timer is over, lapping stop automatically with sound & light;
- ✦ Easy, simple and reliable operation. A person can operate several lapping machines with high efficiency.

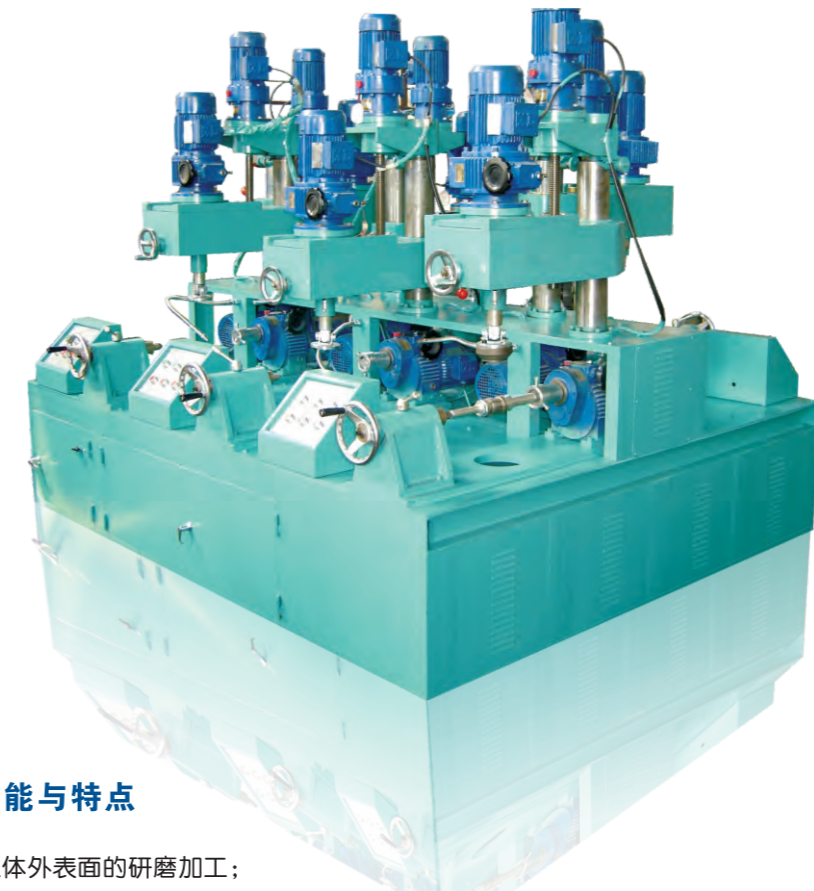
► 主要技术参数及规格

Main technical parameters and sizes

型号规格 Model specification		YFB-XM/1200	YFB-XM/1600	YFB-XM/2000	YFB-XM/2400
研磨盘直径 mm Lapping table diameter		1200	1600	2000	2400
研磨圈内径 mm ID of lapping ring	2个圈 2 rings	Φ 460	Φ 640	Φ 835	Φ 1035
	3个圈 3 rings	Φ 460	Φ 640	Φ 805	Φ 1005
	4个圈 4 rings	Φ 420	Φ 560	Φ 700	Φ 860
研磨盘扭矩 Nm Lapping table torque		2100	3200	5200	5900
研磨盘转速 rpm rpm of lapping table		22	20	18	16
电源 Power	电压V / 频率Hz Voltage/Frequency	380 / 50			
电机 Motor	功率kW / 极数P Power/Pole	5.5 / 6	7.5 / 6	11 / 6	11 / 6
外形尺寸 ⁽¹⁾ Overall size	直径 mm Diameter	Φ 1300	Φ 1730	Φ 2100	Φ 2520
	高度 mm Height	1000	1100	1210	1250
重量 Weight	kg	1500	2000	2500	3000

说明:
(1)以最终产品设计尺寸为准。

Remark:
(1)The final size is decided by final product design.



► 技术性能与特点

- ✦ 适用于球体外表面的研磨加工；
- ✦ 球体外表面研磨加工完成后，可进行阀座与球体的对研加工；
- ✦ 球体用芯轴装夹，芯轴的两端用顶尖定位，球体绕水平芯轴转动，转速为无级调速；
- ✦ 磨盘置于球体上方，绕垂直轴线作偏心轨迹转动（类似于呼啦圈的运动），偏心距离可调，转速为无级调速；
- ✦ 磨盘与主轴采用柔性连接，能消除装夹误差或其它工艺误差；
- ✦ 每个工位的研磨时间可分别预先设定，到时自动停止，并有声光提示；
- ✦ 操作轻便简单，劳动强度低，生产效率高；
- ✦ 多工位的球体研磨机，按球体尺寸分档，可适应更大尺寸范围的球体研磨；
- ✦ 客户可选配以下附加功能及配置：多工位。

► Technical performance and feature

- ✦ It is suitable to lap the spherical surfaces of ball;
- ✦ After lapping outer surface of ball, you can have seat ring and ball lapping;
- ✦ Ball clamped by core shaft which is positioned by thimble rotate around horizontal core shaft and the speed is steplessly controlled;
- ✦ Lapping table on the ball make eccentric movement around vertical shaft, eccentric distance can be adjustable and speed is steplessly controlled;
- ✦ Lapping table flexibly connects with a main shaft and eliminates an error caused by jiggling or others;
- ✦ Lapping time for each station can be pre-set, when time is over, lapping stop automatically with sound & light.
- ✦ Easy operation, low work strength and high production efficiency.
- ✦ Multi-ball lapping machine can be suitable for lapping ball in a larger size range.
- ✦ Customer can choose the function as followed:Multi-station.

► **主要技术参数及规格**
 Main technical parameters and sizes

型号规格 Model specification		YFB-QM/100	YFB-QM/200	YFB-QM/300	YFB-QM/400	YFB-QM/600
球体研磨范围 ⁽¹⁾ Ball lapping range		DN25 ~ DN100	DN65 ~ DN200	DN80 ~ DN300	DN150 ~ DN400	DN300 ~ DN600
球体旋转参数 Ball rotation parameters	转速 rpm Rotation speed	2.1 ~ 10.4	1.4 ~ 7.2	0.8 ~ 4.0	0.7 ~ 3.6	0.5 ~ 2.3
	功率kW / 极数P Power/Pole	0.18kW/4P	0.18kW/4P	0.25kW/6P	0.25kW/6P	0.25kW/6P
磨盘旋转参数 Lapping table rotation parameters	转速 rp Rotation speed	39 ~ 197	26 ~ 130	12.5 ~ 63	6.8 ~ 34	2.7 ~ 13.6
	功率kW / 极数P Power/Pole	0.25kW/6P	0.25kW/6P	0.55kW/6P	0.55kW/6P	0.75kW/6P
电源 Power	电压V / 频率Hz Voltage/Frequency	380 / 50				
外形尺寸 ⁽²⁾ Overall size	长 mm(L)	1400	1500	1600	1800	2300
	宽 mm(W)	750	820	1000	1200	2100
	高 mm(H)	2100	2200	2300	2400	2500
重量 Weight	kg	1000	1500	2000	2500	4000

说明:
 (1)建议按不同的球体规格, 进行多工位搭配组合;
 (2)以最终产品设计尺寸为准。

Remark:(1)We suggest you select multi-station lapping machine according to different ball sizes;
 (2)The final size is decided by final product design.



► **技术性能与特点**

- ✦ 适用于各种阀门阀座密封面的研磨加工;
- ✦ 以阀门连接法兰面定位, 采用压爪抱压法兰方式压紧安装, 工作台安装面可调节倾斜角(0~6°);
- ✦ 研磨盘为无级调速, 通过偏心机构, 使研磨盘作偏心的旋转运动;
- ✦ 密封面研磨表面粗糙度可达Ra 0.8 μm, 吻合度 ≥ 80 %;
- ✦ 摇臂的升降、工作台面的倾斜、夹爪的张开收拢和夹爪的夹紧均由液压驱动;
- ✦ 设备标配液压自动卸荷系统, 待机时系统自动卸荷, 使用时系统自动恢复工作状态, 有效降低了油温, 延长了设备使用寿命, 节能降耗;
- ✦ 研磨时间可预先设定, 到时自动停止, 并有声光提示;
- ✦ 操作轻便简单, 劳动强度低, 一人可值守多台设备, 生产效率高。

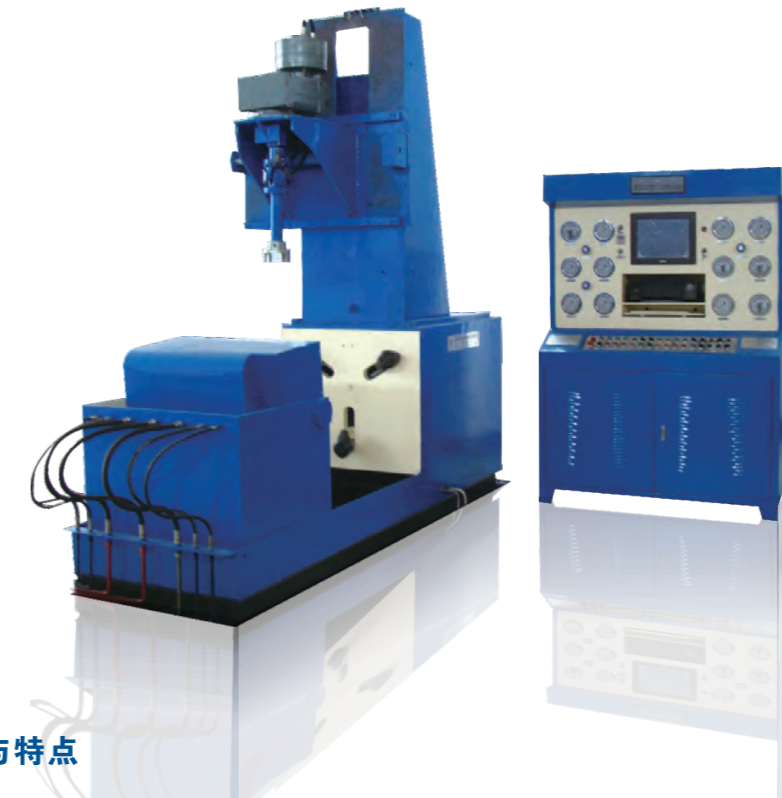
► **Technical performance and feature**

- ✦ It is suitable to lap seating surface for various valves;
- ✦ It adopts claw hold flange to press mounting, work table mounting surface can adjust inclination angle(0~6°);
- ✦ The speed of lapping table is steplessly controlled. A eccentric mechanism is used to make lapping table eccentric rotation;
- ✦ Seating surface roughness reaches Ra 0.8μm and tightness ≥ 80 %;
- ✦ Up & down of an arm, inclination of work table as well as loosening & tightening and tightening force all are steplessly hydraulic driven;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Lapping time can be pre-set, when timer is over, lapping stop automatically with sound & light;
- ✦ Easy, simple and reliable operation. A person can operate several lapping machines with high efficiency.

► **主要技术参数及规格**
 Main technical parameters and sizes

型号规格 Model specification		YFB-ZM/300	YFB-ZM/500	YFB-ZM/600
阀座研磨范围 ⁽¹⁾ Seat ring lapping range		DN80 ~ DN300	DN150 ~ DN500	DN200 ~ DN600
研磨盘旋转参数 Lapping table rotation parameters	转速 rpm Rotation speed	14.9 ~ 74.3	7.0 ~ 39.0	6.3 ~ 31.4
	功率kW / 极数P Power/Pole	0.55kW/6P	0.75kW/6P	0.75kW/6P
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3		
	排量ml / r Displacement	6.3	16	16
	电机功率kW/极数P	1.5 / 4	2.2 / 6	2.2 / 6
电源 Power	电压V / 频率Hz Voltage/Frequency	380 / 50		
外形尺寸 ⁽²⁾ Overall size	长 mm(L)	1700	2100	2400
	宽 mm(W)	1100	1400	1600
	高 mm(H)	2100	2300	2420
重量 Weight	kg	1500	2000	2500

说明:
 (1)阀座研磨的具体范围, 可按客户的要求设计;
 (2)以最终产品设计尺寸为准。
 Remark:(1)Regarding lapping range for seat ring, we can design on customer request;
 (2)The final size is decided by final product design.



► **技术性能与特点**

- 设备由“工业用触摸屏电脑”、“压力传感器”、“扭矩传感器”、“角位移传感器”、“PLC”、“转换模块”、“开关电源”、“报表打印机”等硬件和“工控组态软件”构成;
- 系统能在阀门带压状态下进行:“阀门加压→带压关闭→一端卸荷,密封副带全压→带压开启阀门→阀门加压……”的自动循环寿命试验;
- 系统对阀门开启和关闭到位的控制,可任选“扭矩控制”、“行程位置控制”、“扭矩控制+行程位置控制”中的任一种型式(部分阀门类型的关闭到位控制只能选“扭矩控制”的型式);
- 系统按预先设定的每轮自动循环次数进行自动循环试验且自动停止,系统自动记录循环的总轮数、总循环次数和每轮启闭的扭矩值;
- 系统可单独进行阀门开启和关闭扭矩值的检测,检测结果以数字和曲线图形的型式保存和输出;
- 系统实时地监测试验过程中的各项数据,显示并保存在系统中。通过对关键字(如检验单编号)的检索,可十分方便地查阅、检索和打印历史检测数据资料(包括曲线图形资料),也为后续的质量问题追溯提供了条件。检测数据也可导出到Excel,便于客户实现ERP管理。通过“USB”接口或通过网线,可将检测数据资料输出。
- 用户可选择以下各种型式的阀门寿命试验台及配置:
 液压抱压式阀门寿命试验台(适用于法兰连接阀门);(型号:YFB-SM/※※)
 液压顶压式阀门寿命试验台(适用于坡口焊接、法兰连接阀门);(型号:YFB-SMDY/※※)
 螺杆顶压式阀门寿命试验台(适用于内通道密封试验阀门);(型号:YFB-SMDL/※※)
 安全门。

► **Technical performance and feature**

- The system is made up of "industrial touch screen computer", "pressure sensor", "torque sensor", "angular displacement sensor", "PLC", "conversion module", "switch power", "printer" and "industrial control configuration software";
- The system can have the following automatic cycle life test on valve with pressure: "valve pressurize → close with pressure → one end discharge sealing pair with full pressure → open valve with pressure → valve pressurize……";
- You can choose any type of "torque control", "stroke position control", "torque control + stroke position control valve opening and closing in the system (you only can choose "torque control" to control some types of valves opening and closing);
- The system has automatic cycle test according to pre-set number of automatic cycle and stop automatically, system record total cycle numbers and each round of opening and closing torque value;
- System can test valve opening and closing torque value separately, testing result can be saved and printed out in digital and image curve;
- The system real-time monitor all datas during testing process, display and save it in the system. You can be access, retrieve and print out historical testing data (including curve graphical data) by keyword, provided the conditions for subsequent quality issues retrospective. Testing data can be exported to Excel and realize ERP management for customer. Testing data can be output through "USB" interface or network cable.
- Customer can select the following models of valve life test bench and configuration:
 Hold pressure valve life test bench (suitable for flanged end valves) (Model: YFB-SM/※※);
 Top press valve life test bench (suitable for groove welded, flanged end valves) Model: YFB-SMDY/※※);
 Top screw valve life test bench (suitable for inner tunnel sealing valves); (Model: YFB-SMDL/※※);
 Safety door.



► 主要技术参数及规格

Main technical parameters and sizes

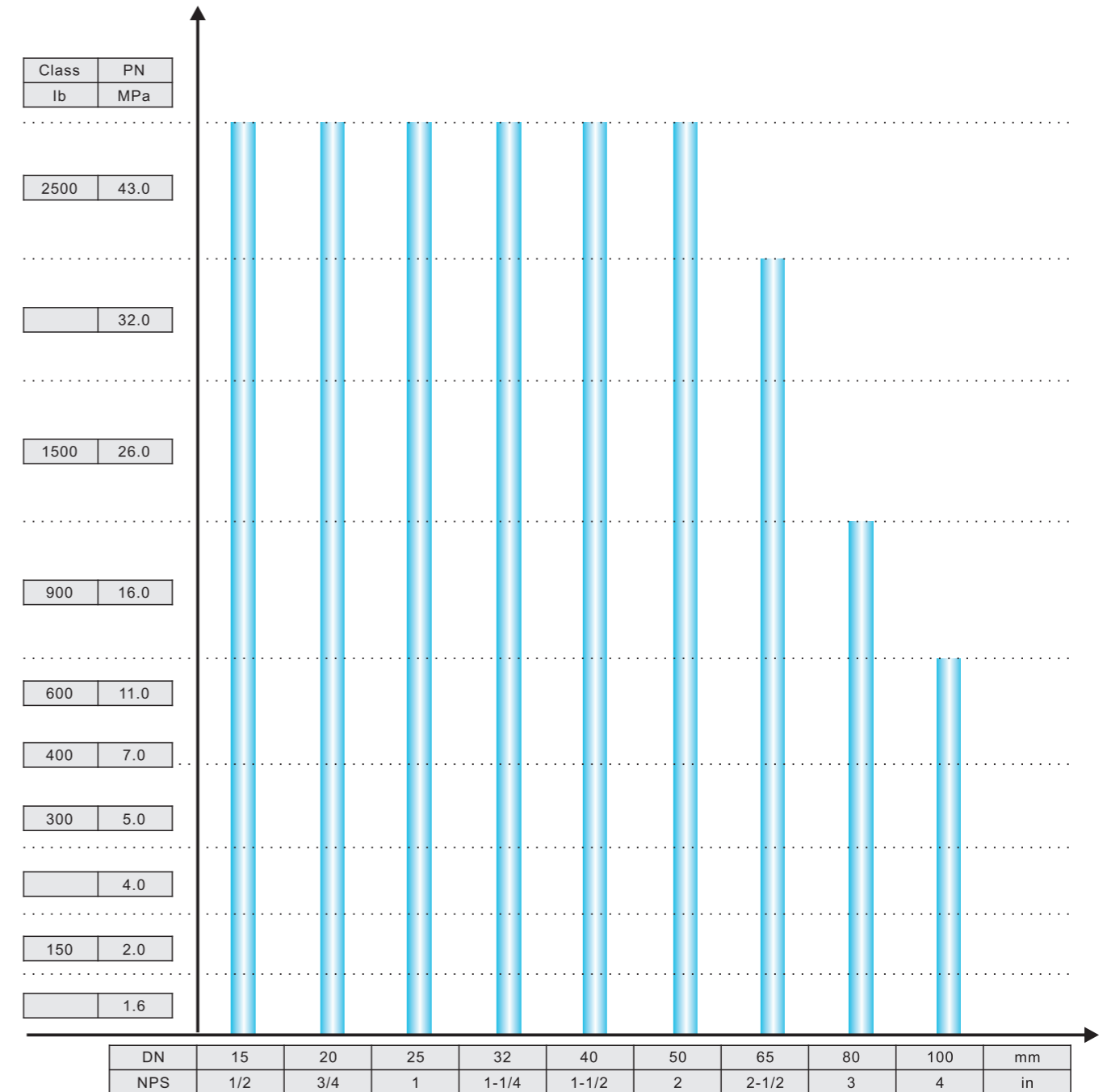
型号规格 Model specification		YFB-SM/※100	YFB-SM/※200	YFB-SM/※300	YFB-SM/※400	YFB-SM/※500	YFB-SM/※600
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称通径DN / mm DN/mm Nominal diameter	15 - 100	50 - 200	80 - 300	200 - 400	250 - 500	300 - 600
	公称压力PN / MPa PN/Mpa Nominal pressure	1.6 - 43.0	1.6 - 43.0	1.6 - 43.0	1.6 - 16.0	1.6 - 16.0	1.6 - 16.0
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min. valve face-to-face dimension	108	178	203	292	330	356
	最长结构长度 mm The max. valve face-to-face dimension	432	597	673	838	991	1143
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径 / 厚度mm Min. flange diameter/thickness	90 / 10	150 / 16	190 / 19	345 / 29	405 / 31	485 / 32
	最大法兰直径 / 厚度mm Max. flange diameter/thickness	275 / 58	380 / 66	520 / 75	650 / 74	775 / 77	915 / 93
阀门启闭扭矩 ⁽²⁾ Nm Valve opening & closing torque		1500	2500	3600	5800	10000	25000
盲板间距范围 ⁽³⁾ Blind flange spacing	最小间距mm Min space between	90	160	185	270	310	340
	最大间距mm Max space between	620	800	1000	1150	1320	1420
电机 Motor	功率kW / 极数P Power/Pole	3 / 6	4 / 6	5.5 / 6	7.5 / 6	11 / 6	11 / 6
电源 Power	电压V/频率Hz Voltage/Frequency	380 / 50					
外形尺寸 ⁽³⁾ Overall size	长 mm (L)	2200	2580	2800	3100	3300	3600
	宽 mm (W)	750	850	1130	1300	1500	1600
	高 mm (H)	2000	3100	3200	4350	4700	5000
重量 Weight	kg	2350	3300	4500	6500	7600	8300

说明:
 (1)通径与压力的具体范围, 见各型号试验台的详细说明;
 (2)按客户要求设计;
 (3)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
 (2)we can design on customer request;
 (3)The final size is decided by final product design.

► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure





YFB – SM※ / ※200 型 阀门寿命试验台

YFB - SM※ / ※200 model valve life test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB – SM※ / ※300 型 阀门寿命试验台

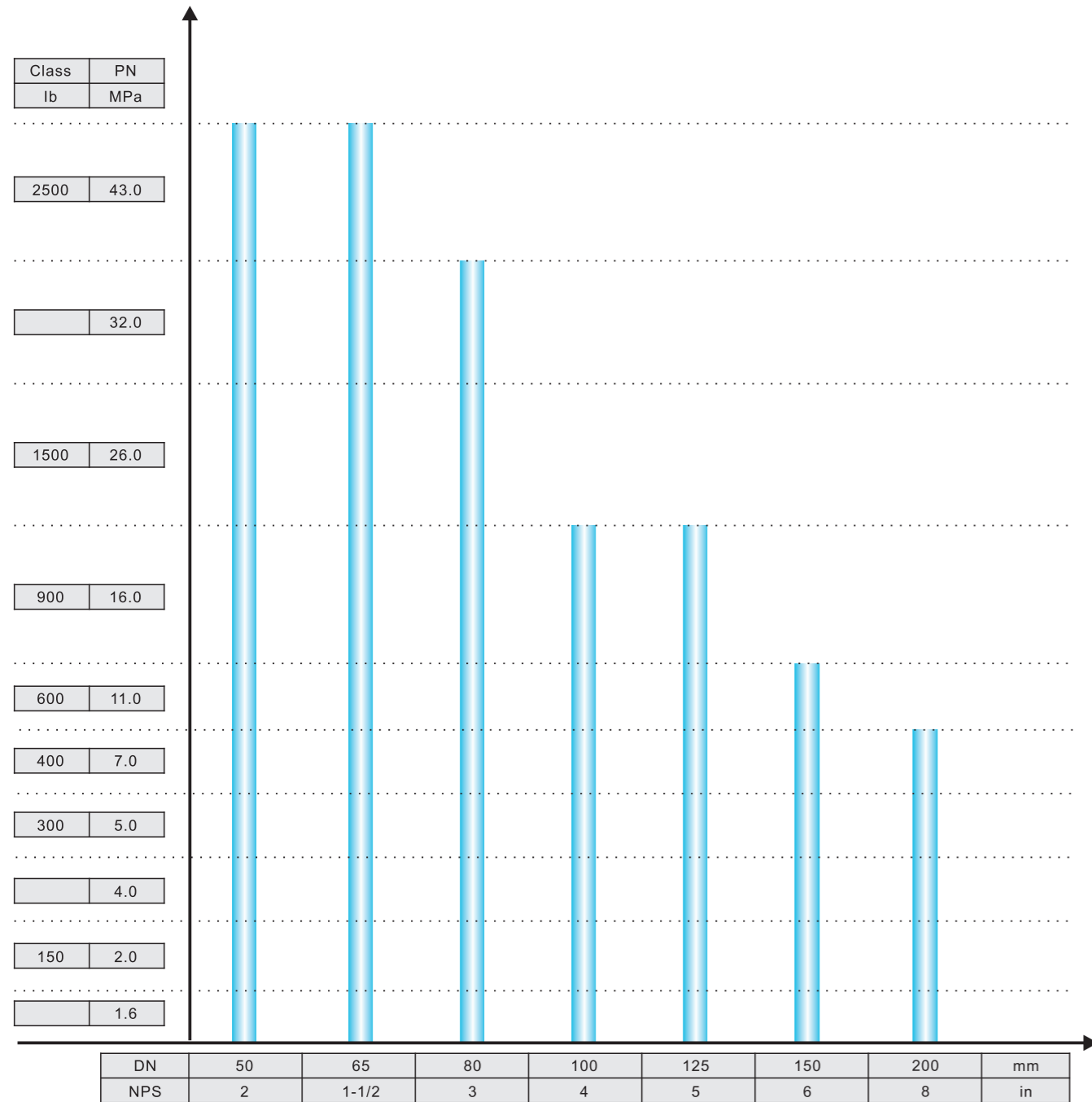
YFB - SM※ / ※300 model valve life test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



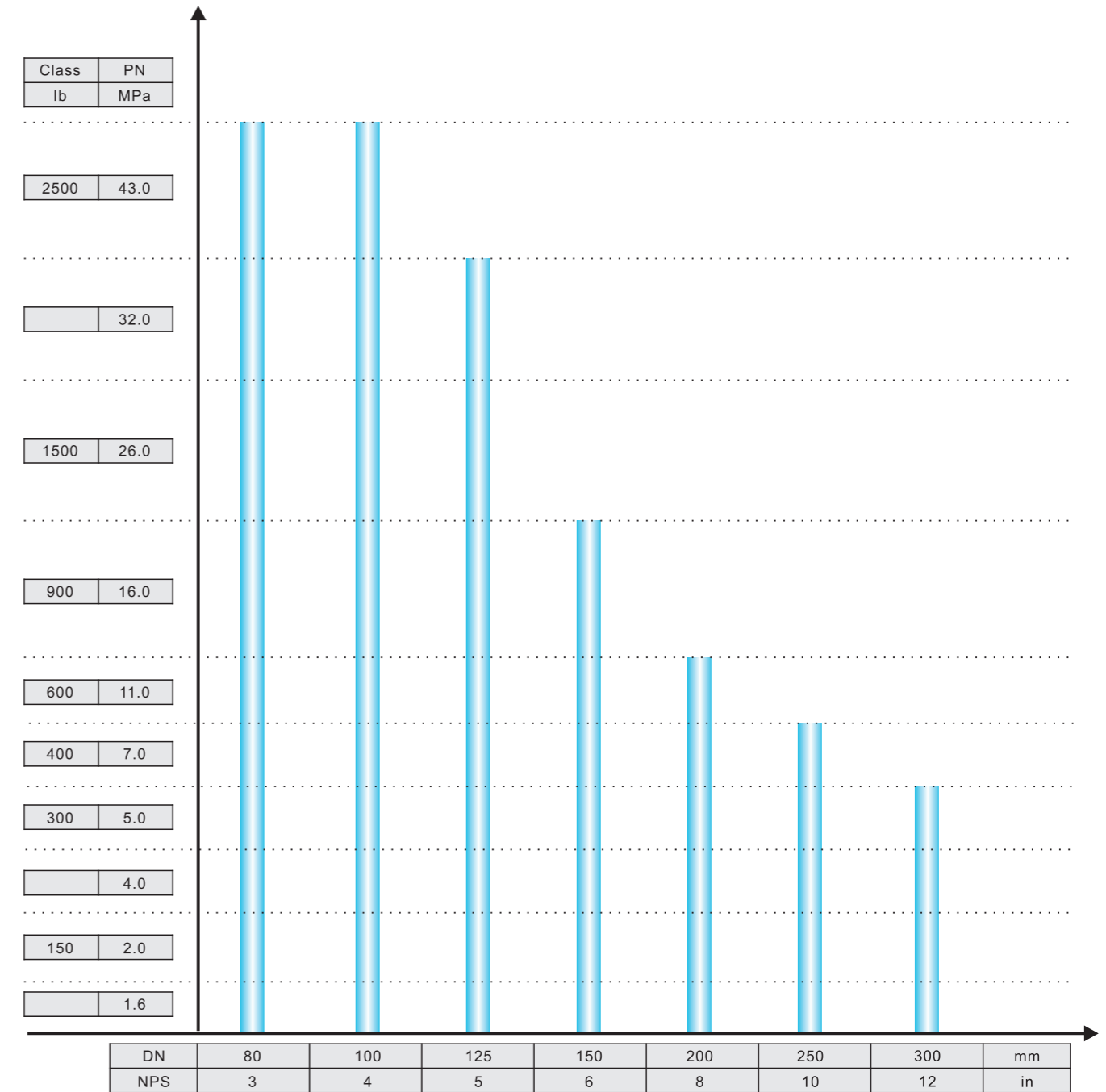
► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



► 阀门公称口径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure





YFB - SM※ / ※400 型 阀门寿命试验台

YFB - SM※ / ※400 model valve life test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB - SM※ / ※500 型 阀门寿命试验台

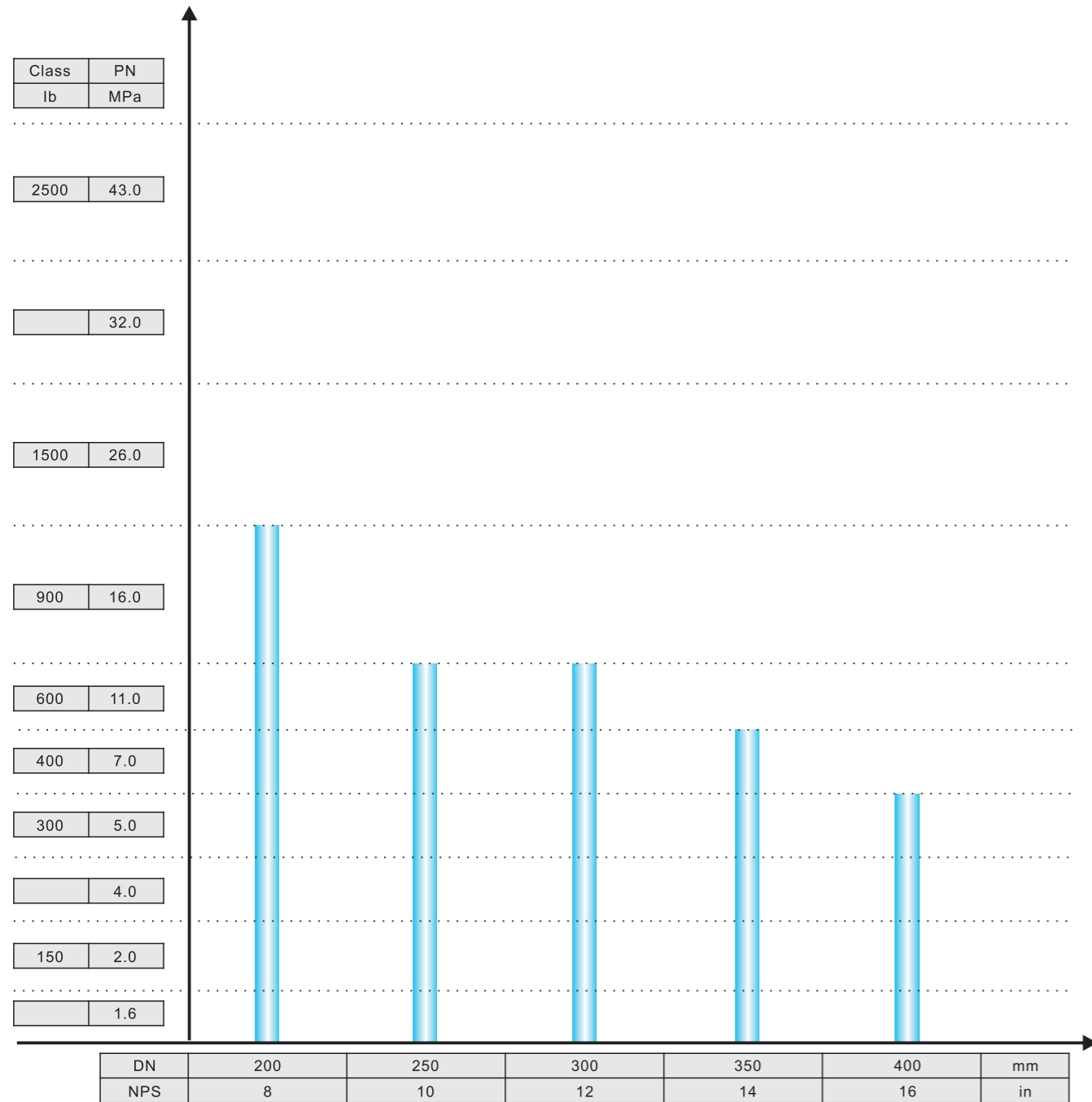
YFB - SM※ / ※500 model valve life test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



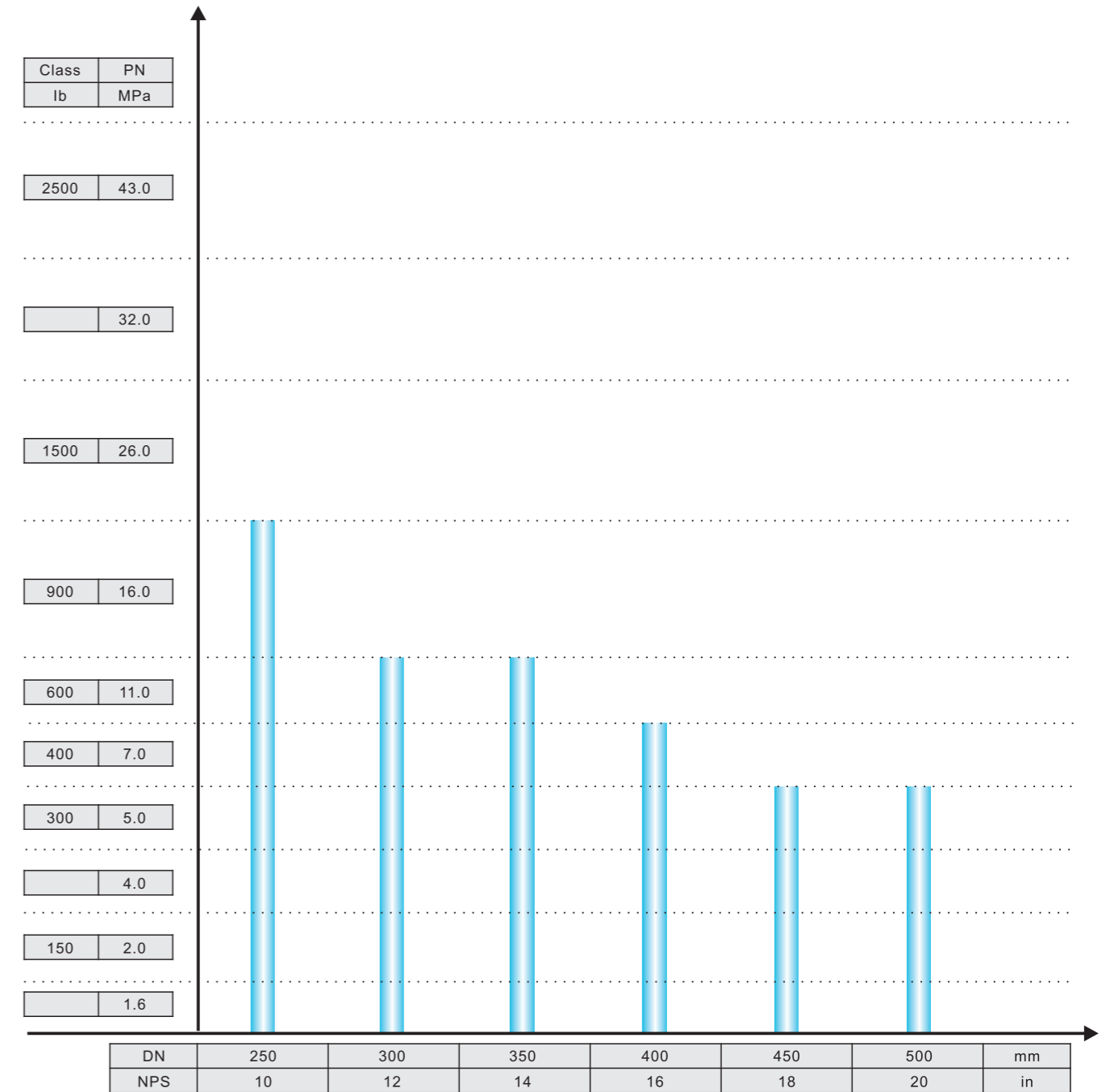
▶ 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



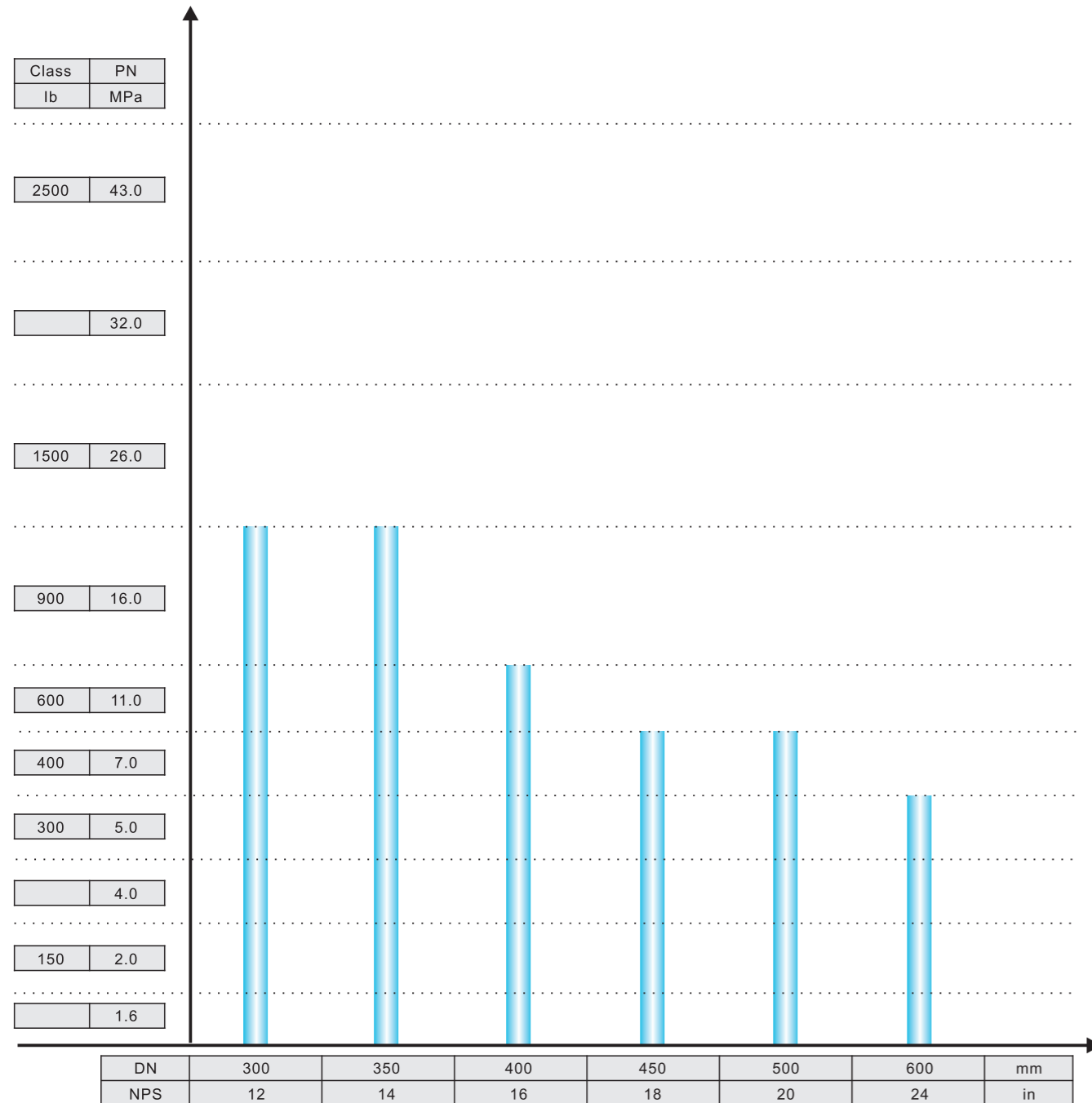
▶ 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure



► 技术性能与特点

- ✦ 适用于法兰连接型式6A阀门的检测；
- ✦ 采用压爪抱压法兰方式压紧，对试验阀门无外力影响；
- ✦ 阀门可翻转90°，试验介质为水（循环使用）；
- ✦ 设备标配低压水注入、高压水注入和保压计时的自动控制系统；
- ✦ 设备标配液压自动卸荷系统，待机时系统自动卸荷，使用时系统自动恢复工作状态，有效降低了油温，延长了设备使用寿命，节能降耗；
- ✦ 液压夹紧与水压卸荷有安全互锁；
- ✦ 客户可选配以下附加功能及配置：安全门；触摸屏电脑监测系统。

► Technical performance and feature

- ✦ It is suitable to have a test for flanged end 6A valves;
- ✦ No external force affects a testing valve as clamp hold flange;
- ✦ Valve can be turned to 90° to have a test, test media is water (water can be recycling);
- ✦ Equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Hydraulic clamping has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Safety door; Touch screen monitoring system.



YFB-6AL※/※※型立式6A阀门试验台

YFB-6AL※/※※ model vertical 6A valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.

YFB-6A※/※※型6A阀门试验台

YFB-6A※/※※ model 6A valve test bench

SHANGHAI ZENGXIN MACHINE ELECTRON EQUIPMENT CO., LTD.



► 技术性能与特点

- ✦ 适用于法兰连接型式或焊接坡口型式6A阀门的检测;
- ✦ 液压立式型式: 下面配置压爪抱压油缸, 上面配置顶压油缸;
- ✦ 螺杆立式型式: 仅上面配置顶压螺杆;
- ✦ 试验介质为水(循环使用), 设备标配低压水注入、高压水注入和保压计时的自动控制系统;
- ✦ 液压立式型式: 设备标配液压自动卸荷系统, 待机时系统自动卸荷, 使用时系统自动恢复工作状态, 有效降低了油温, 延长了设备使用寿命, 节能降耗;
- ✦ 螺杆顶压型式: 适用于内通道密封型式进行阀门的检测, 若需采用平面密封、焊接坡口密封型式, 需选配自举缸系统;
- ✦ 液压夹紧(或螺杆顶紧)与水压卸荷有安全互锁;
- ✦ 客户可选配以下附加功能及配置: 安全门; 触摸屏电脑监测系统。

► Technical performance and feature

- ✦ It is suitable to have a test for flanged end or welded groove 6A valves;
- ✦ Hydraulic vertical type: the upper part equips top pressure oil cylinder, the lower part equips claw holding oil cylinder;
- ✦ Screw vertical type: the upper part equips top pressure screw;
- ✦ Test media is water (water can be recycling), equipped LP water filling、HP water filling and pressure-keeping & timing auto-control system;
- ✦ Hydraulic vertical type: equipped automatic oil pressure discharge system, when being ready state, system discharge automatically, when working, system return to normal status to effectively reduce oil temperature, elongate life of the test bench and save energy;
- ✦ Top screw type: it is suitable to have a test for inner tunnel sealing valves, if a customer selects plane or welded groove sealing valves, customer need to choose bootstrap tank system;
- ✦ Hydraulic clamping (or screw tightening) has safety interlock with water pressure discharge;
- ✦ Customer can choose the functions as followed: Safety door; Touch screen monitoring system.

► 主要技术参数及规格

Main technical parameters and sizes

型号规格 Model specification		YFB-6A/※3-1/16"	YFB-6A/※4-1/16"	YFB-6ALY/※3-1/16" YFB-6ALL/※3-1/16"	YFB-6ALY/※4-1/16" YFB-6ALL/※4-1/16"
通径与压力范围 ⁽¹⁾ Test range between DN and PN	公称规格 in DN/mm Nominal diameter	2-1/19"-3-1/16"	3-1/19"-4-1/16"	2-1/19"-3-1/16"	3-1/19"-4-1/16"
	公称压力 psi psi Nominal pressure	3000-15000	3000-15000	3000-15000	3000-15000
结构长度范围 Valve face-to-face dimension	最短结构长度 mm The min.valve face- to-face dimension	371	435	371	435
	最长结构长度 mm The max.valve face- to-face dimension	620	737	620	737
法兰直径与厚度范围 Range between flange diameter and thickness	最小法兰直径/厚度mm Min.flange diameter/thickness	216 / 46.1	240 / 46.1	216 / 46.1	240 / 46.1
	最大法兰直径/厚度mm Max.flange diameter/thickness	270 / 58.4	360 / 78.6	270 / 58.4	360 / 78.6
盲板间距范围 ⁽²⁾ Blind flange spacing	最小间距mm Min space between	350	415	350	415
	最大间距mm Max space between	950	1000	800	920
液压系统 Hydraulic system	油泵额定压力MPa Oil pump pressure	6.3			
	排量ml / r Flow	16	25	16	25
	高压(增压) MPa Boosting	≤ 31.5			
	系统调压范围MPa Pressure adjusting range	≤ 6.3			
电源 Power	电压/频率Hz Voltage/Frequency	380 / 50			
电机 Motor	功率kW / 极数P Power/Pole	2.2 / 6	3 / 6	2.2 / 6	3 / 6
外形尺寸 ⁽²⁾ Overall size	长 mm (L)	2700	3200	2100	2400
	宽 mm (W)	1510	1750	1100	1300
	高 mm (H)	1350	1450	1900	2000
重量/Weight	kg	3000	4400	3000	4000

说明:

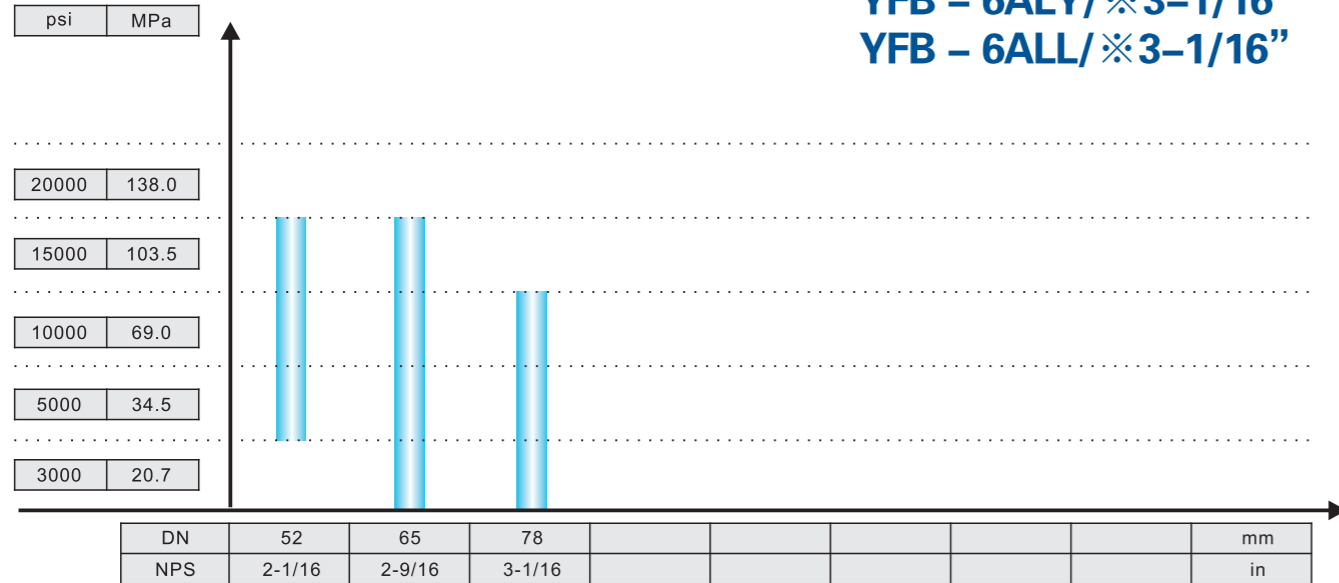
- (1)通径与压力的具体范围, 见各型号试验台的详细说明;
- (2)以最终产品设计尺寸为准。

Remark:(1)Regarding range between DN and PN, please refer to detailed instruction of each model test bench;
(2)The final size is decided by final product design.

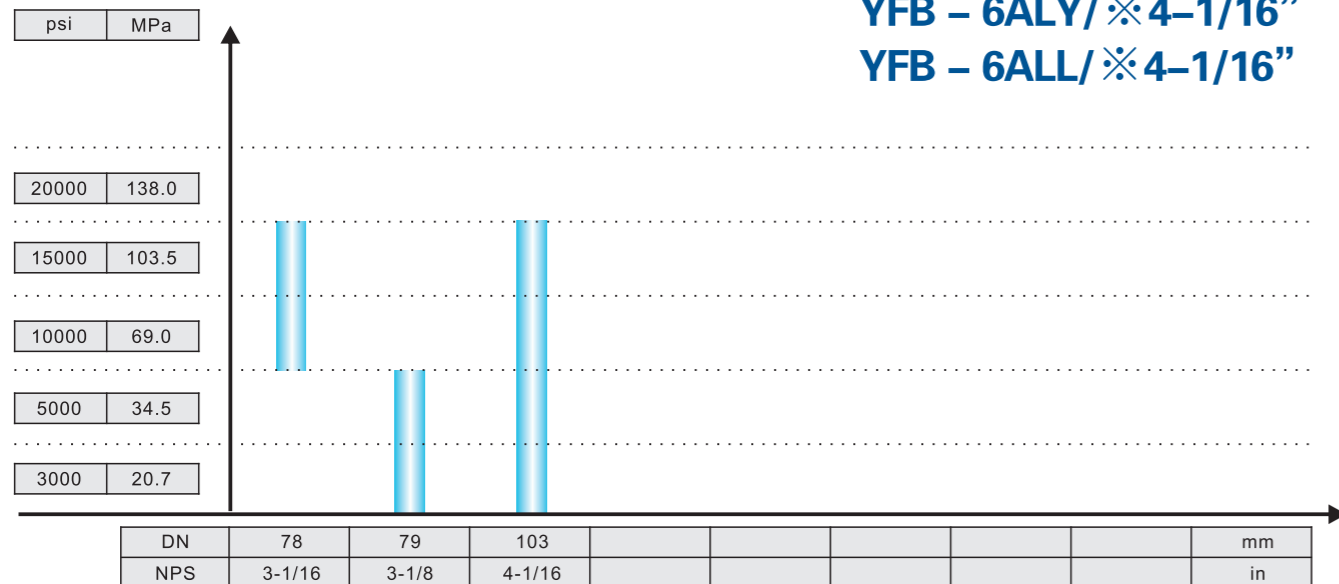
► 阀门公称通径与公称压力试验范围

Test range of valve nominal diameter and nominal pressure

YFB - 6A/※3-1/16”
YFB - 6ALY/※3-1/16”
YFB - 6ALL/※3-1/16”



YFB - 6A/※4-1/16”
YFB - 6ALY/※4-1/16”
YFB - 6ALL/※4-1/16”



► 技术性能与特点

- ✦ 设备由“工业用触摸屏电脑”、“压力传感器”、“扭矩传感器”、“角位移传感器”、“PLC”、“转换模块”、“开关电源”等硬件和“工控组态软件”构成；
- ✦ 适用于法兰连接形式软密封阀门的性能测试；
- ✦ 系统自动控制测试阀门的输送到位、阀门两端的密闭、阀门的开启和关闭、介质打压、延时、报警、卸荷，以及自动控制测试的压力、扭矩和时间等物理参数；
- ✦ 操作简便，劳动强度低，生产效率高。

► Technical performance and feature

- ✦ It is made up of "industrial touch screen computer", "pressure sensor", "torque sensor", "angular displacement sensor", "PLC", "conversion module", "switch power", "printer" and "industrial control configuration software".
- ✦ It is suitable to have a test for flanged end valves with soft seating surface;
- ✦ It automatically controls the following: transferring to a position, opening & closing a valve, pressurization, delay action, alarm as well as measuring a test pressure, a torque and stroke time.
- ✦ Easy operation, low work strength and high production efficiency.

► 主要技术参数及规格

Main technical parameters and sizes

型号Model	YFB-ZDX/150	YFB-ZDX/250
通径范围 Size range	DN50 - 150	DN125 - 250
最大规格时的最高压力 Max.oil pressure for max.DN	DN150 : 1.6MPa	DN250 : 1.6MPa
最小规格时的最小压力 Min.oil pressure for min.DN	DN50 : 4.0MPa	DN125 : 4.0MPa