

### 简介 Introduction

二段释压开启防撞型消火栓是引进国外技术，保留了国内外同类产品的优点，并对其中关键部件进行了改进，更具有实用性，并通过国家消防装备质量监督检验中心检测。其性能优于一般传统消防栓，传统式的消防栓如在保压 1.0MPa，紧急使用时，以双手开启，不易打开，甚至将开关把手扭裂。本产品在任何情况下能灵活快速启闭。

Anti-collision hydrant of the two-stage relief the pressure have introduce the technology retains the advantages of the same kind of foreign products, and improves the key components, more practical, and get national patents. Its performance is better than traditional fire hydrants, such as the maintain pressure of 1.0MPa, when emergency use it, open use your hands. It's not easy to open even turn the switch handle. This product can be opened and closed flexibly and quickly under any circumstances.

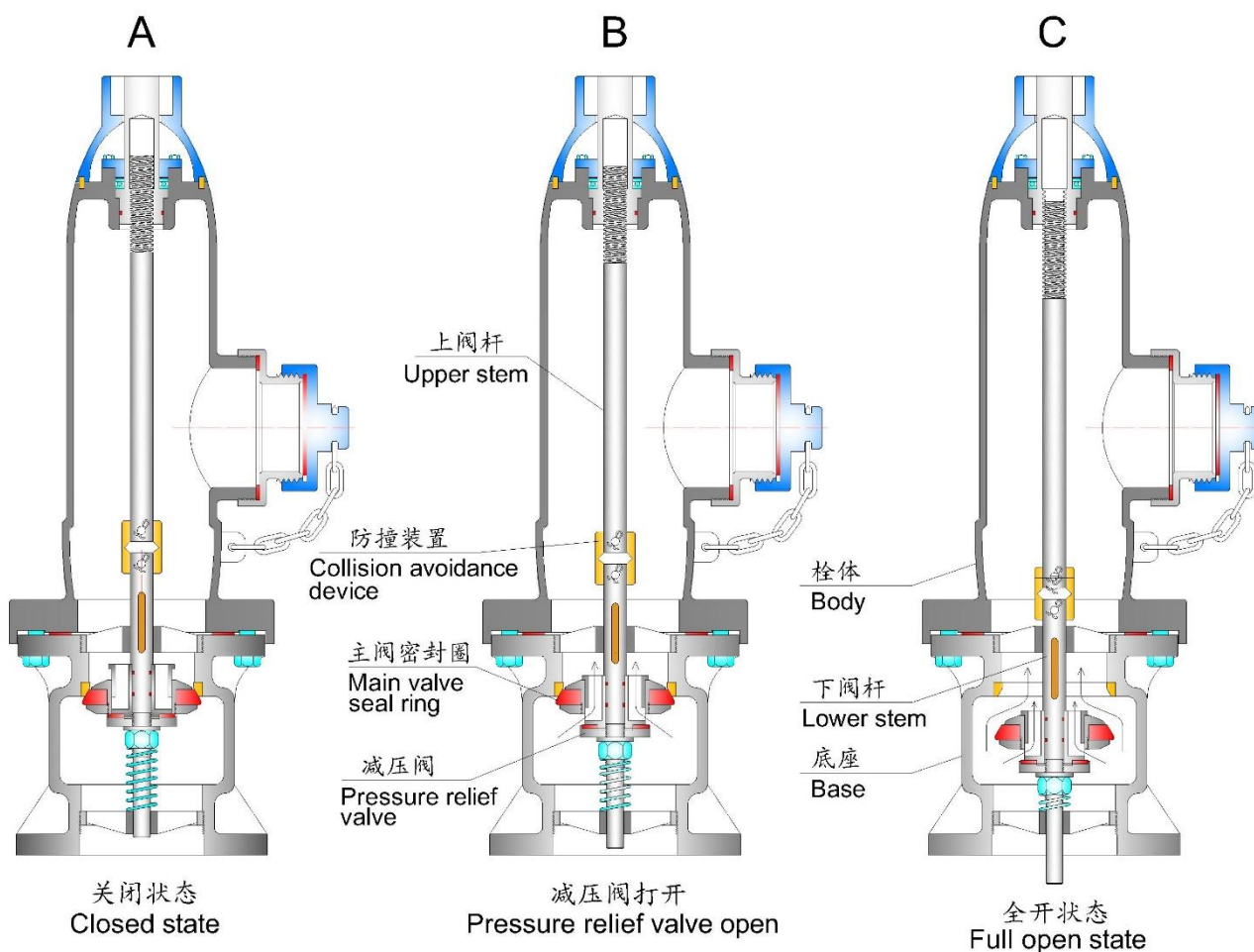


### 产品特点 Product features

- 1、本消火栓带省力装置，当消防管线保压 0.8MPa~1.4MPa 状态时，可轻松开启或关闭消火栓。  
The fire hydrant belt labor-saving device, when the pressure of fire pipeline is 0.7MPa~1.2MPa, fire hydrant can be opened or closed easily.
- 2、本消防栓如被撞断后立即止水，不影响同管线其它消防栓的正常使用，并可立即更换损坏之配件。  
If the fire hydrant is broken, you should stop water immediately, and it is not affect the normal use of other fire hydrants in the same pipeline, and repair the damaged parts immediately.
- 3、A 型消火栓装设 DN100(4") 法兰弯头，以直接固定自动摇摆喷塔或消防炮。B 型消火栓出水口处带有球阀，能自由调节消防水带的流量大小，防冻消火栓底座带自动排水装置。  
Type A hydrant with DN100(4") flange elbow, to fix the spray tower or fire monitor. Type B hydrant outlet with ball valve, It can adjust the flow of fire hose freely. Freeze-proof hydrant base with automatic drainage device.
- 4、自动排水装置：纯机械原理构造，能保证自动排水的稳定性。  
Automatic drainage device: pure mechanical principle structure, can ensure the stability of automatic drainage.

### 防撞减压说明

### Anti-collision and decompression principle



1、A图所示：消防栓处于关闭状态且密封圈与密封座紧密联合；

Figure A shows that the fire hydrant is closed and the sealing ring is tightly combined with the sealing seat.

2、B图所示：当开启时，阀杆推动减压阀，减压阀打开，高压水流从减压阀芯孔中流出，逐渐泄压，降压开启压力，达到减压目的；

Figure B shows that when opened, the stem pushes the pressure relief valve, the pressure relief valve opens, and high-pressure water flows out of the core hole of the pressure relief valve, gradually releasing pressure, reducing the pressure opening pressure, so as to achieve the purpose of pressure relief.

3、C图所示：当减压阀开启后，阀杆继续推动，直至阀门完全打开，水流即按设计流量排出；

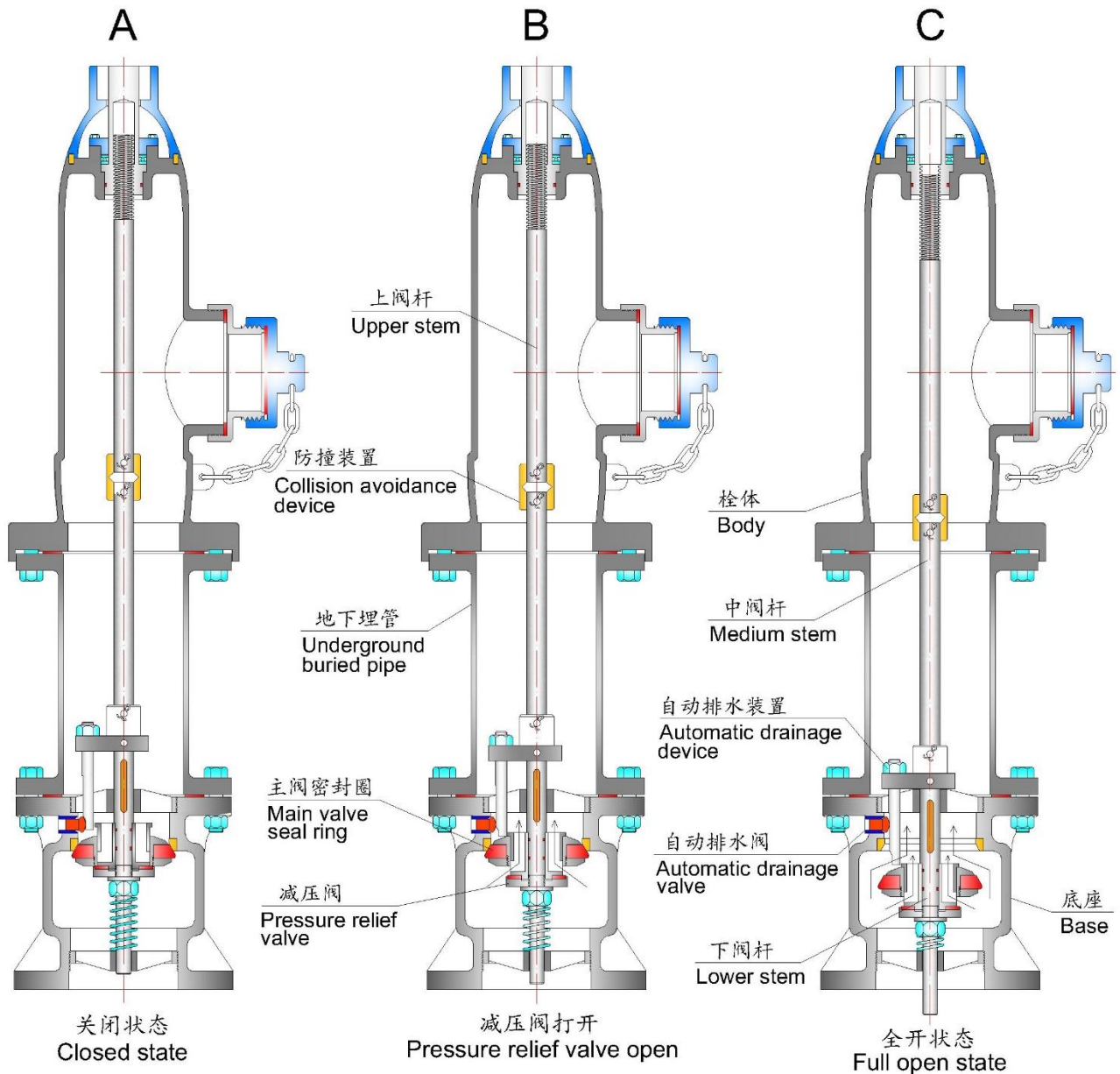
Figure C shows that when the pressure relief valve is opened, the stem continues to push until the valve is fully opened, and the water flow is discharged according to the designed flow rate.

4、防撞原理：当栓体受外力，碰撞时上下阀杆连接的折断螺母就会断开，主阀密封就会受弹簧和水压的作用，紧密闭合，不会造成泄漏。

Anti-collision principle: When the bolt body is subjected to external force, the broken nut connecting the upper and lower stem will be broken when colliding, and the seal of the main valve will be closely closed by the spring and water pressure, so as not to cause leakage.

### 自动排水装置说明

### Description of automatic drainage device



1、A图所示：主阀关闭时，排水阀打开，余水排出，直至排空；

As shown in Figure A: when the main valve is closed, the drain valve is opened and the residual water is discharged until it is empty.

2、B图所示：减压阀打开，排水阀开始慢慢关闭，直至全关；

As shown in Figure B: the pressure reducing valve is opened and the drain valve starts to close slowly until it is fully closed.

3、C图所示：主阀打开，排水阀完全关闭，消火栓正常供水。

As shown in Figure C: the main valve is opened, the drain valve is completely closed, and the fire hydrant supplies water normally.

# Markvalve

## 防撞调压型消火栓 Fire Hydrant

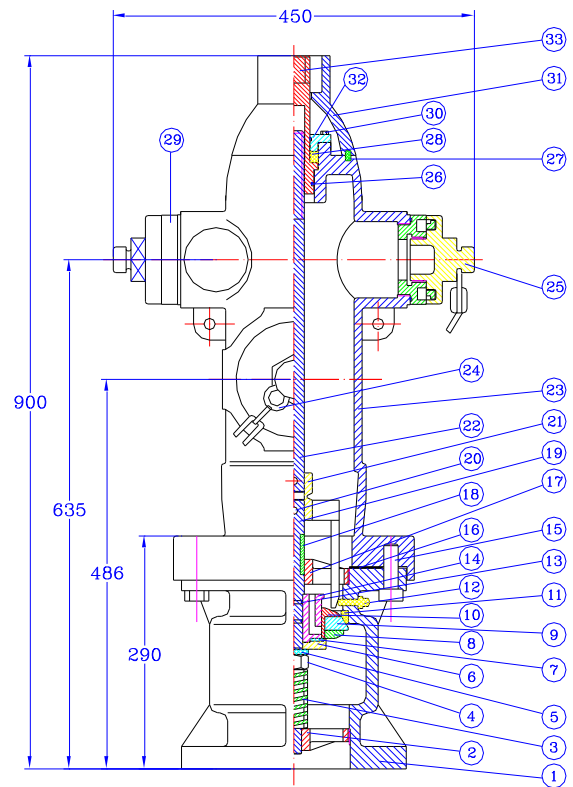


### 性能参数 Parameters

公称尺寸 Nominal size	DN100 (4") 法兰 flange DN150 (6") 法兰 flange
水带口尺寸 Hose nozzle size	KWS65 (2-1/2") * 2 KWS80 (3") * 2
吸水口尺寸 Pumper nozzle size	100 (4")、M125X6 150 (6")、M170X6
操作方向 Direction of operation	逆时针方向 (打开) Anticlockwise (open)
试验压力 Test pressure	2.4MPa
公称压力 Nominal pressure	1.6MPa
喷塔尺寸 Spray tower size	DN100 (4") 法兰 flange DN150 (6") 法兰 flange

注：其他尺寸可接受定制。

Notes: We also customize other sizes.



### 零件数据表 Parts Date Sheet

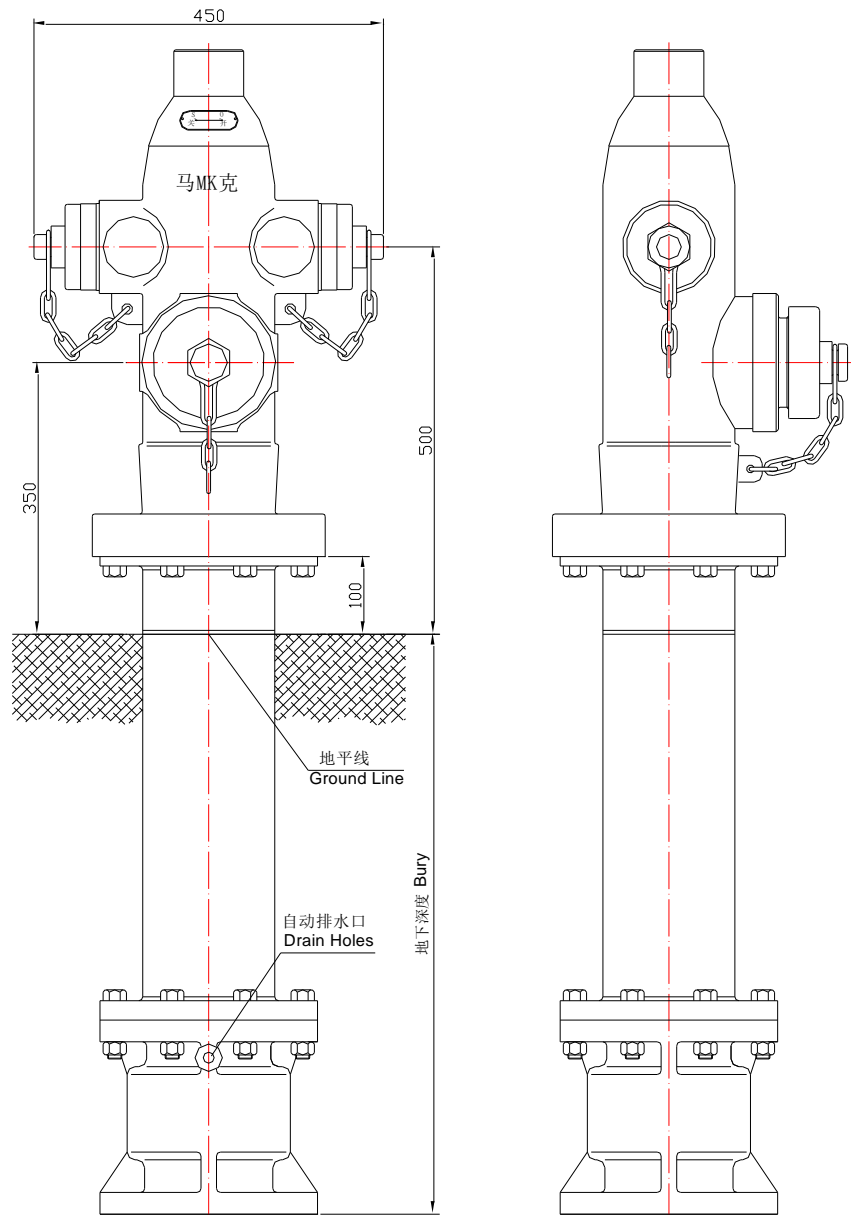
序号 SN	零件名称 Part name	数量 Quantity	材质 Material
1	底座 Base	1	QT450
2	下定位圈 Under position ring	1	304
3	弹簧 Spring	1	304
4	锁紧螺母 Lock nut	1	304
5	弹簧垫圈 Spring washers	1	304
6	减压阀座 Relief valve seat	1	304
7	固定垫圈 Fix washers	1	NBR
8	下夹板 Lower pallet	1	QT450
9	密封圈 Seal ring	1	NBR
10	上夹板 Upper pallet	1	QT450
11	密封座 Seal base	1	304
12	放水装置 Drainage device	1	304
13	O型圈 O-ring	1	NBR
14	减压阀本体 Relief valve body	1	304
15	螺栓 Bolt	8	35#
16	垫圈 Gasket	1	NBR
17	上定位圈 Upper position ring	1	304

序号 SN	零件名称 Part name	数量 Quantity	材质 Material
18	固定键 Retaining key	1	304
19	下阀杆 Lower stem	1	304
20	销轴 Hinge pin	2	304
21	连接螺母 Connection nut	1	QT450
22	上阀杆 Upper stem	1	304
23	栓体 Body	1	QT450
24	链条 Chain	1	304
25	链条 Chain	2	304
26	O型圈 O-ring	1	NBR
27	圆柱销 Column pin	4	304
28	轴承 Bearing	1	SUS304
29	水带口接头 Hose nozzle	2	304
30	螺栓 Bolt	6	304
31	护盖 Protect cover	1	QT450
32	轴承压盖 Bearing gland	1	304
33	操作螺母 Operate nut	1	304

\*本表仅供参考，以实体为准。This form is only for reference and should subject to the entity.

单位 Units: mm

深度编号 Depth No.	埋深 Bury
1	500
2	550
3	600
4	650
5	700
6	750
7	800
8	850
9	900
10	950
11	1000
12	1050
13	1100
14	1150
15	1200
16	1250
17	1300
18	1350
19	1400
20	1450
21	1500
22	1550
23	1600
24	1650
25	1700
26	1750
27	1800



### 性能参数 parameters

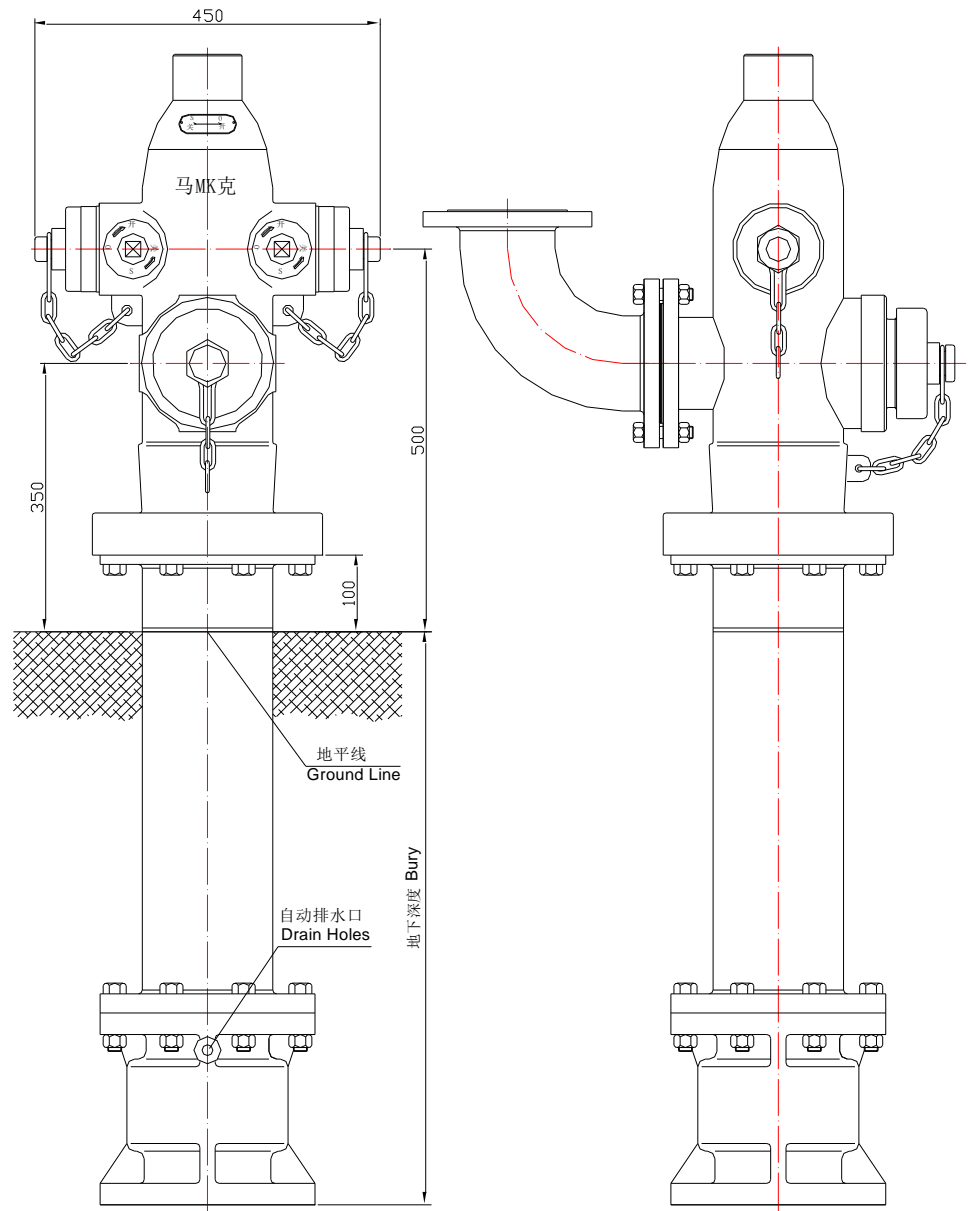
型号 Type	SSFT100/65-1.6QT	SSFT150/65-1.6QT	SSFT150/80-1.6QT
公称通径 Nominal Diameter	DN100(4")	DN150(6")	
工作压力 Working Pressure	0.8MPa~1.4MPa		
水带接头 Hose Nozzle	KWS65		KWS80
吸水口接头 Pumper Nozzle	M125*6		M170*6
水带接头带球阀 Ball Valve In Hose Nozzle	可以选装 Can be optional		
自动排水功能 Automatic Drainage Function	有 Yes		

注：其他尺寸可接受定制。

Notes: We also customize other sizes.

单位 Units: mm

深度编号 Depth No.	埋深 Bury
1	500
2	550
3	600
4	650
5	700
6	750
7	800
8	850
9	900
10	950
11	1000
12	1050
13	1100
14	1150
15	1200
16	1250
17	1300
18	1350
19	1400
20	1450
21	1500
22	1550
23	1600
24	1650
25	1700
26	1750
27	1800



### 性能参数 parameters

型号 Type	SSFT100/65-1.6A	SSFT150/65-1.6A	SSFT150/80-1.6A
公称通径 Nominal Diameter	DN100(4")	DN150(6")	
工作压力 Working Pressure	0.8MPa~1.4MPa		
水带接头 Hose Nozzle	KWS65	KWS80	
吸水口接头 Pumper Nozzle	M125*6	M170*6	
弯头法兰尺寸 Elbow Flange Size	DN100(4")、DN125(5")、DN150(6")		
水带接头带球阀 Ball Valve In Hose Nozzle	可以选装 Can be optional		
自动排水功能 Automatic Drainage Function	有 Yes		

注：其他尺寸可接受定制。

Notes: We also customize other sizes.

