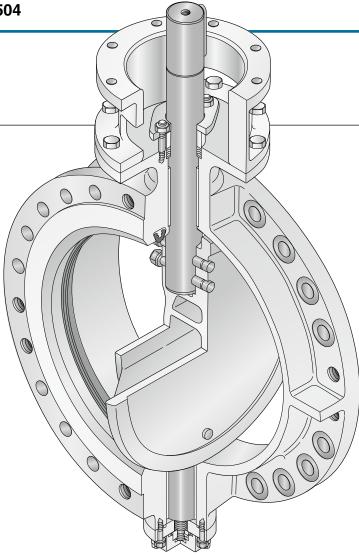
## Large Diameter / AWWA Standard C504

# **227P**









#### **Features and Benefits**

A unique structure and low cost with proven reliability in water works, power generation, desalination plants and other industrial applications.

#### Unique seat ring

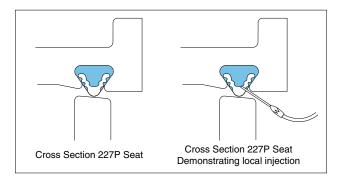
Unique seat ring structure provides low torque and long life. Grooves are molded on the sealing surface of the seat to reduce operating torque. An original retaining method is adopted. Plastic resin is injected from behind the seat ring to stiffen it. The resin-reinforced seat ring keeps constant compression through the entire disc to assure tight shut off.

#### **Arch-shaped disc**

A light weight and highly rigid arch-shaped disc allows fluid to pass through it when a valve opens. The valve opening area (Cv value) increases by approximately 15% compared to conventional designs. The pressure drop is also minimized.

#### Easy seat repair

Generally, the seat ring can be used for over 10 years without replacement. If any leakage is found, it can be easily repaired using an injection kit to inject resin into the seat ring surface at the point of leakage. The seat can also be replaced by a new seat with the injection kit.

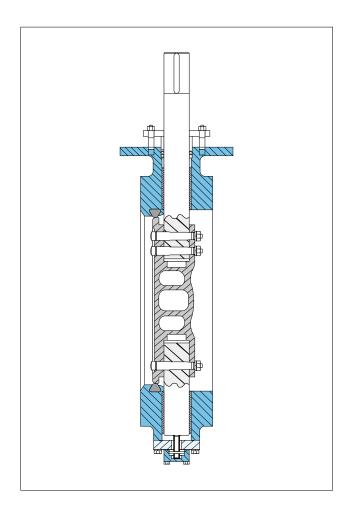


#### **Custom-Mode Design**

Costom mode desing, including the use of special materials, special face to face dimentions are aviable upon request.

## **Standard Specifications**

Valve nominal size		650mm to 2400mm		
Applicable fiange standard		JIS 5K/10K, DIN PN10/PN16, JPI 150Lb, ANSI 125Lb/150Lb, AWWA		
Max.Working pressure		1.6MPa		
Pressure test	Body shell	2.4MPa (Hydraulic, Max.)		
	Seat leak	1.8MPa (Hydraulic, Max.)		
Working temperature range		-10 to 80 degrees C(NBR)		
Woking temperature in continuous use %1		0 to 60 degrees C(NBR)		
	Body	FCD450, SCPH2		
Standard materials	Disc	SCS13, CAC702		
	Stem	SUS304, SUS630, Monel K-500		
	Seat ring	NBR, *EPDM		
Special specification		Rubber lined body interior		
Coating		Primer (Munsell N7)		



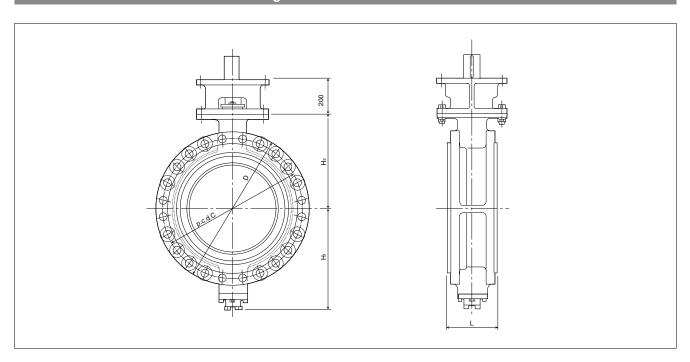
Consult us with specifications if dimensions for actuator are required.

\*\*Actuators such as manual, pneumatic, electric and hydraulic ones can be selected upon adapt of detailed specifications.

\*\*1.\*\*Woking temperature in continuous use" stands for the temperature continuously kept exceeding one hour.

\*\*No EPDM seat can be used for fluid containing any oil.

## Large diameter / AWWA C504

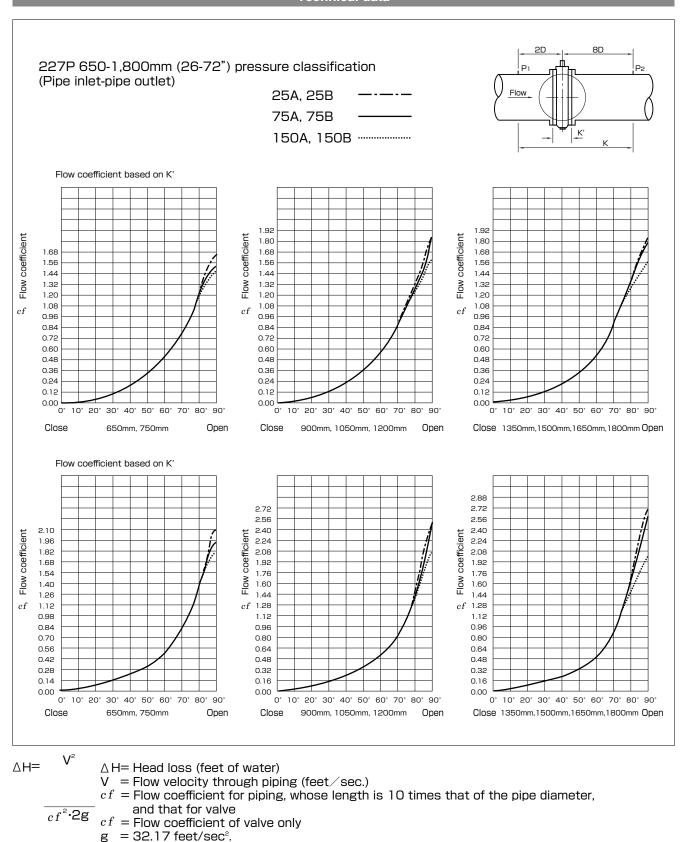


### **■**Dimensions

Nominal size		Dimension (mm)					
mm	inch	H <sub>2</sub>	H <sub>1</sub>	D	L	С	
650	26	505	535	845	254	780	
750	30	543	613	984	305	914	
900	36	648	727	1168	305	1086	
1050	42	737	815	1346	305	1257	
1200	48	819	905	1511	381	1422	
1350	54	905	991	1683	381	1594	
1500	60	991	1108	1854	381	1759	
1650	66	1092	1192	2032	457	1930	
1800	72	1175	1299	2197	457	2096	
1950	78	1320	1387	2362	457	2254	
2100	84	1404	1514	2534	457	2426	
2250	90	1495	1610	2705	533	2597	
2400	96	1610	1715	2877	610	2756	

- Use the gasket size that complies with flange standard when installing.
   Body flange thickness may not comply with the standard. Consult with us.
   227P has two versions, AWWA type and general purpuse type.
   Maximum flow velocity range should be 6m/sec in full open position and 9m/sec during emergencies or for short durations without frequent opening and closing.

#### **Technical data**



Cv value:

 $Cv = 4294 cf \times D^2$  D: Internal diameter of pipe (feet)