227P

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

Unique seat ring

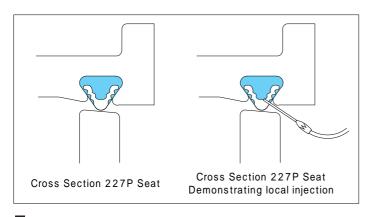
Unique seat ring structure provides low torque and long life. Grooves are molded on the sealing surface of the seat to reduce operating torque. An original retaining method is adopted. Plastic resin is injected from behind the seat ring to stiffen it. The resinreinforced seat ring keeps constant compression 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

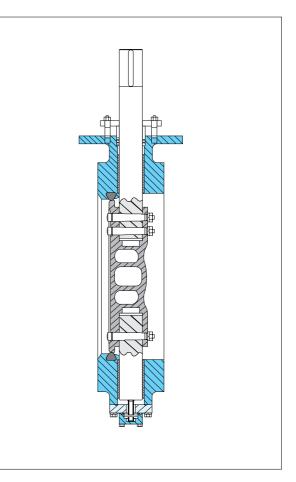
Generally, the seat ring can be used for over 10 years without replacement. If any leakage is found, it can be easily repaired using an injection kit to inject resin into the seat ring surface at the point of leakage. The seat can also be replaced by a new seat with the injection kit.



Custom-Mode Desing

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







227P Standard specifications							
Valve nominal size		650mm to 2400mm					
Applicable fiange standard		JIS 5K/10K, DIN NP10/NP16, JPI 150Lb, ANSI 125Lb/150Lb, AWWA					
Max.Working pressure		1.6MPa					
Pressure test	Body shell	2.4MPa (water pressure, max.)					
	Seat leak	1.8MPa (max.)					
Working temperature range		- 10 to 80 degrees C(NBR)					
Woking temperature in continuous use 1		0 to 60 degrees C(NBR)					
Standard materials	Body	FCD450, SCPH2					
	Disc	SCS13, CAC702					
	Stem	SUS304, SUS63, Monel K-500					
	Seat ring	NBR, *EPDM					
Special specification		Rubber lined body interior					
Coating		Primer (Munsell N7)					

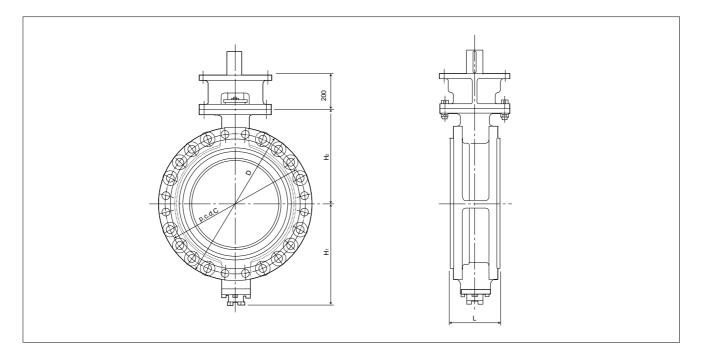
Consult us with specifications if dimensions for actuator are required.

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.

227P

Large diameter / AWWA C504

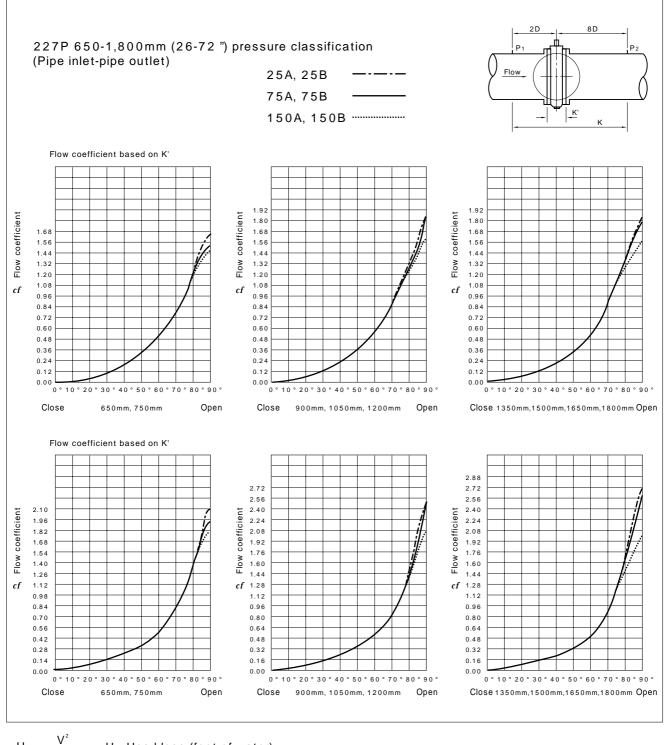


Dimensions

Nominal size		Dimension(mm)						
mm	inch	H2	H1	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



H= Head loss (feet of water)

H=

- V = Flow velocity through piping (feet / sec.)
- cf = Flow coefficient for piping, whose length is 10 times that of the pipe diameter,
 - and that for valve
- $cf^2 \cdot 2g$ cf = Flow coefficient of valve only

 $g = 32.17 \text{ feet/sec}^2$.

