

GATE VALVES

THROUGH CONDUIT EXPANDING GATE

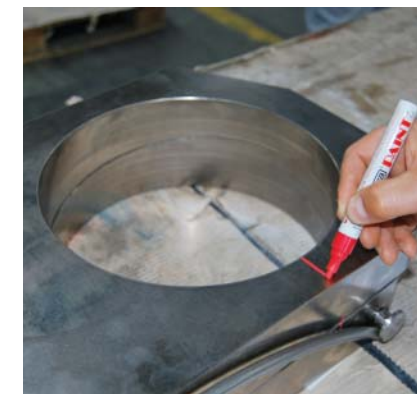
This type of valve includes in itself the features of a through conduit service and of a standard gate valve with a parallel seating surfaces. The through conduit service implies the continuity of fluid flow conduit, excluding any dirt accumulation in the body cavity. The gate is in two halves (the so called "gate" and "segment") with angled sliding surfaces, kept together by springs or by a lever system for larger dimensions.

Construction is available with single expanding or double expanding system. In the first case, the two halves of the gate are pushed against the seats in the valve closed position by having an internal stop acting on one of the two halves. In the second case the same expansion is also obtained in the valve open position.

During the gate travel from open to close, or close to open, the gate springs or the lever system prevent the gate from being in contact with the seats by "contracting" the two gate halves together. Usual construction is bolted bonnet. FLUITEK ORSENIKO VALVES can supply these valves in a variety of materials: carbon steel, low temperature carbon steel, austenitic stainless steel, duplex and super duplex stainless steel and nickel alloys.

Seating surfaces (seats, gate, sliding surfaces of the two gate halves) are provided with tungsten carbide coating, particularly for high pressure services.

Pressure classes range from ANSI 300# to 600#, 900#, 1500# and 2500#.



A typical example of dimensions and weights is reported for class 1500#.

CHARACTERISTICS – ANSI 1500#						
Nominal Size [inches]	Face to face [mm]	Bore diameter [mm]	Connecting flange external diameter [mm]	From central axes to top flange [mm]	From central axes to bottom end [mm]	Total weight [kg]
2"	371	49	216	520	235	110
3"	473	74	267	620	275	220
4"	549	100	311	730	320	410
6"	711	144	396	820	395	720
8"	842	192	483	1000	480	1190
10"	1001	239	584	1300	560	1680
12"	1146	287	673	1460	640	2340
14"	1276	315	749	1580	690	3300
16"	1406	360	826	1710	765	4200
>16"	On Application					