



TRANSMITTER ISOLATION VALVE

ORBINOX KP valve provides isolation of an level instrument transmitter from a storage tank. The installation of this valve allows the replacement of the transmitter or its maintenance without disrupting the process or draining the vessel.

Sizes:

DN 80

Standard flange connection:

PN10 / ANSI 150 Tank side: see pag. 4

Working pressure:

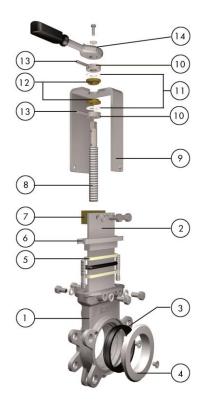
DN80: 10 bar

Directives:

For EU Directives and other Certificates, please see the document: Directives and Certificates Compliance - Knife Gate Valves - Catalogues and Datasheets



All valves are tested prior to shipping in accordance with the standard developed by the Quality Control Department at ORBINOX



STANDARD PARTS LIST							
Part:	Material:						
1- Body	CF8M (1.4408)						
2- Gate	AISI 316 (1.4404)						
3- Seat	EPDM						
4- "K" Ring	AISI 316 (1.4404)						
5- Packing	Dynapack (Graphite impregnated PTFE and Aramid yarn combination with an elastomeric core)+ (EPDM O-ring)						
6- Gland Follower	CF8M (1.4408)						
7- Stem nut	Brass						
8- Stem	Stainless steel						
9- Yoke	AISI 304 (1.4301)						
10- Axial fixing bush	AISI 304 (1.4301)						
11- Friction washer	PET + solid lubricant						
12- Bushing	Bronze						
13- Spring pin	AISI 420 (1.4021) (ISO 8752)						
14- Ratchet wrench	Carbon steel						
15- Bolts & Nuts	A2						





DESIGN FEATURES

BODY:

Wafer style cast stainless steel monoblock body with raised faces. Designed with internal cast-in gate wedges and guides to ensure a tighter valve shut-off. The full port design guarantess a greater flow capacity and a minimal pressure drop. The body internal design avoids any accumulation of particles that would prevent valve from closing.

GATE:

Stainless steel gate as standard. Gate is polished on both sides to avoid jamming and seat damage. The bottom of the gate edge is machined to a bevel to cut through solids for a tighter seal in the closed position.

SEAT: (resilient)

Unique design that mechanically locks the seal in the inner side of the valve body with a cast, easy to replace, stainless steel seat ring. Standard EPDM also available in different materials such as PTFE, etc.



PACKING:

Long-life packing with several graphite impregnated PTFE and aramid yarn combination with an elastomeric core, plus an EPDM O-ring with an easy access packing gland ensuring a tight seal. Long-life braided packing is available in a wide range of materials.

STFM:

The standard stainless steel stem offers a long corrosion resistant life.

ACTUATORS:

All valves supplied with WRENCH

YOKE or ACTUATOR SUPPORT:

Reserves the right to change specifications without notice

Made of stainless steel (EPOXY coated steel available on request). Compact design makes it extremely robust even under the most severe conditions.

EPOXY COATING:

The epoxy coating on all ORBINOX cast iron and carbon steel valve bodies and components is electrostatically applied making the valves to be corrosion resistant with a high quality finished surface. The ORBINOX standard colour is RAL-5015 blue.





TEMPERATURE CHART

SEAT / SEALS

PACKING

Material Ma	ıx.Temp	.(°C) Applications	Material	Max.Temp.(°C)	рН
EPDM (E)	120	Acids and non mineral oils	Dynapack (DP)	270	2-13
NBR (N)	120	Resistance to petroleum products	Braided PTFE (TH)	260	0-14
FKM-FPM (V)	200	Chemical service/High temp.	Graphited (GR)	600	0-14
VMQ (S)	250	Food service/High temp.	Ceramic fibre (FC)	1200	
PTFE (T)	250	Corrosion resistance	NOTE: all types include o	an elastomere O-ring (same	material as
Polyurethane	90	Abrasion resistance			

More details and other materials on request

SEAT TYPES



TYPE "K" SEAT (EPDM)

- Standard replaceable resilient EPDM seat
- Replaceable stainless steel ring



DEFLECTION CONE "C"

- Deflects the media away from any internal exposed parts of the valve such as gate guides, seat, etc.
- Different types of material available such as AISI 316 stainless, CA15, Ni-Hard, etc.
- Face to face dimension increase:
 DN 50 to DN 250 X = 9mm
 DN 300 to DN 600 X = 12mm
 Larger diameters on request



TYPE "K" SEAT (PTFE)

- Replaceable resilient PTFE + O-ring seat
- Replaceable stainless steel ring



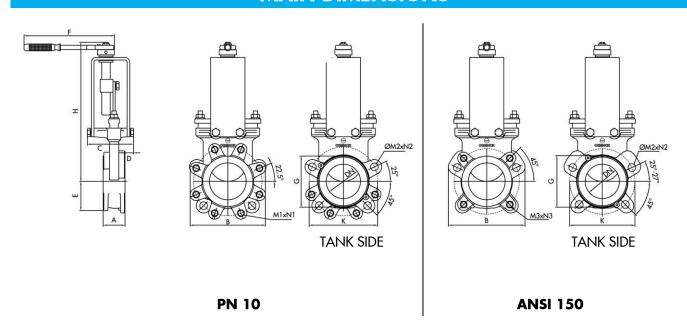
POLYURETHANE

• Replaceable polyurethane seat ring





MAIN DIMENSIONS



														ISI class TANK SIDE		SIDE
	DN	A	В	C	D	E	F	G	H	K	M1	N1	МЗ	N3	ØM2	N2
PN10	80	51	1 <i>77</i>	110	22	88	212	120	325	160	M16	8	-	-	18	4
ANSI class 150	80	51	180	110	22	74	212	120	325	152.4	-	-	5/8-11 UNC	4	18	4