

BORE SIZES 100 - 300

Orbinox standard double acting pneumatic cylinders are specifically designed to suit Orbinox knife gate valves.

Main features:

- End caps and barrels up to bore 250mm are made of aluminium
- Barrels with bore 300mm are made of composite*
- Piston rod in stainless steel
- Air supply can vary from 3,5bar up to maximum 10 bar

Options:

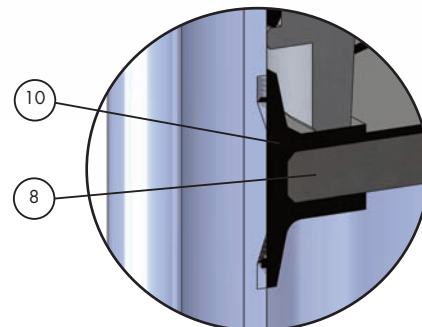
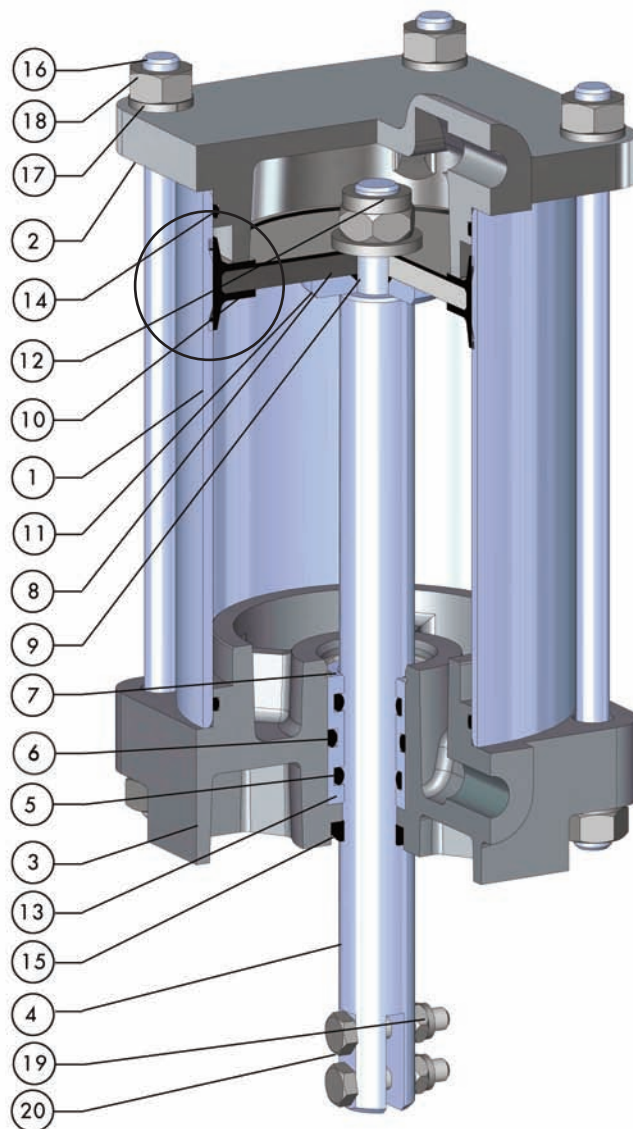
- Magnetic limit switches available with special magnetic kit under the piston
- Single acting (up to 200mm bore)
- Manual override system (two piston rods)

Bore sizes (mm):

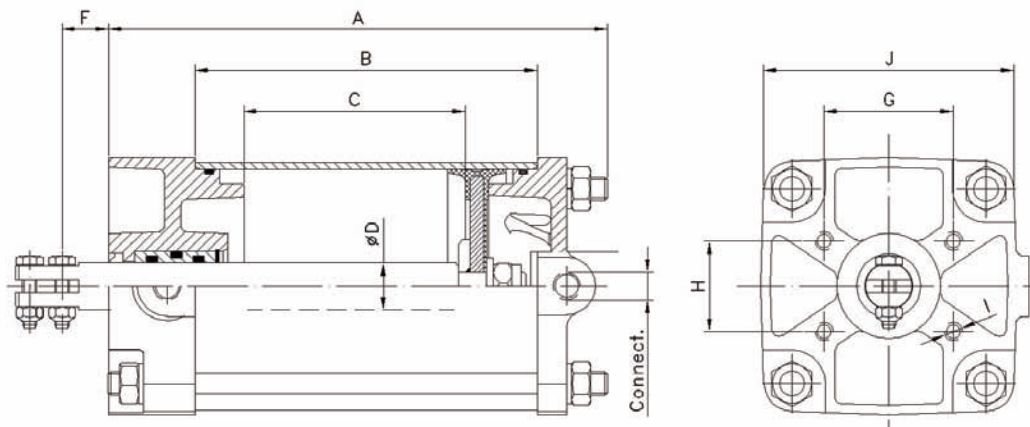
DN 100, 160, 200, 250, 300

PART LIST

Item:	Description:	Material:
1	Barrel	Aluminium/ Composite*
2	Cap	Aluminium
3	Head	Aluminium
4	Piston Rod	AISI - 304
5	'O'-Ring	Nitrile
6	'O'-Ring	Nitrile
7	Circlip DIN472	Steel
8	Piston support plate	Steel
9	O-ring	Nitrile
10	Piston seal	Nitrile
11	Piston support plate	Carbon Steel
12	Self locking nut	AISI - 304
13	Bushing	Nylon
14	O-ring	Nitrile
15	Scraper	Steel + Nitrile
16	Tie rods	Carbon Steel - Zn plated
17	Washer DIN127	Carbon Steel - Zn plated
18	Nut DIN934	Carbon Steel - Zn plated
19	Bolt DIN933	AISI - 304
20	Self locking nut	AISI - 304



BORE SIZES 100 - 300



Ø Barrel - Valve size	A	B	C	ØD	F	G	H	I	J	Air Connections	Weight (kg)	Air (litre)
Ø 100 - 50	163	114	62	20	20	55.44	38.82	M8	110	1/4"G	2	4
Ø 100 - 65	178	129	77	20	20	55.44	38.82	M8	110	1/4"G	2,25	5
Ø 100 - 58	196	147	95	20	20	55.44	38.82	M8	110	1/4"G	2,25	6
Ø 100 - 100	216	167	115	20	20	55.44	38.82	M8	110	1/4"G	3	7
Ø 125 - 125	243	203	143	25	29	55.5	39	M8	135	1/4"G	4	13
Ø 125 - 150	268	228	168	25	29	55.5	39	M8	135	1/4"G	5	15
Ø 160 - 200	326	280	220	30	43	100	50	M10	170	1/4"G	9	31
Ø 200 - 250	393	341	270	30	43	100	50	M10	215	3/8"G	15	59
Ø 200 - 300	443	391	320	30	43	100	50	M10	215	3/8"G	16	70
Ø 250 - 350	505	448	375	40	84	99	99	M16	274	3/8"G	36	127
Ø 250 - 350	555	498	425	40	84	99	99	M16	274	3/8"G	37	144
Ø 300 - 450	645	554	475	45	77.5	99	99	M16	382	1/2"G	38	232
Ø 300 - 500	695	604	525	45	77.5	99	99	M16	382	1/2"G	40	257
Ø 300 - 600	795	654	625	45	77.5	99	99	M16	382	1/2"G	42	266

Recommended cylinder bore size for standard Orbinox valves considering 6 bar of air supply:

ORBINOX VALVES (DN in mm)			
EX, EK, EB, ET, BT, XC, DT, AT		TL, TK	VG
50	Cyl.100	Cyl.100	Cyl.100
65			Cyl.125
80			
100			Cyl.160
125	Cyl.125	Cyl.125	Cyl.200
150			Cyl.250
200	Cyl.160	Cyl.200	Cyl.300
250			Cyl.350
300			Cyl.400
350	Cyl.250	Cyl.300	Cyl.450
400			Cyl.500
450			Cyl.550
500			Cyl.600
600	Cyl.300	Cyl.350	Cyl.650
700			Cyl.700
800			Cyl.750
900			Cyl.800
1000	Cyl.400	Cyl.400	Cyl.850
1200			Cyl.900

BORE SIZES 350 - 400

Orbinox standard double acting pneumatic cylinders are specifically designed to suit Orbinox knife gate valves.

Main features:

- End caps are made of aluminium.
- Barrels are made of composite material.
- Piston rod in stainless steel.
- Air supply can vary from 3,5bar up to maximum 10 bar.

Options:

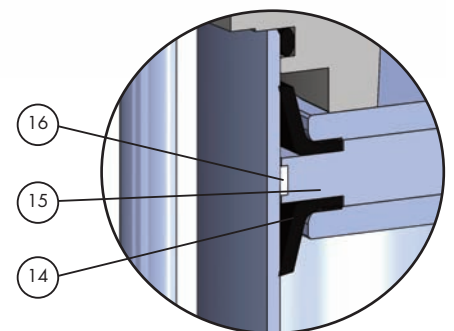
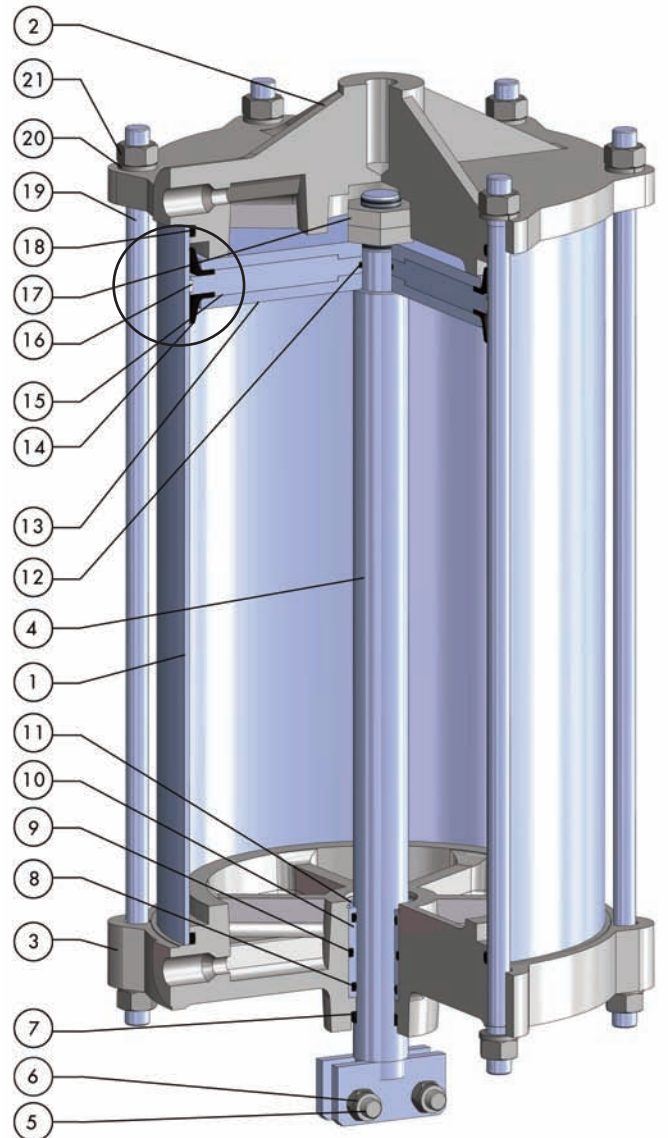
- Magnetic limit switches available with special magnetic kit under the piston.
- Manual override system (two piston rods).

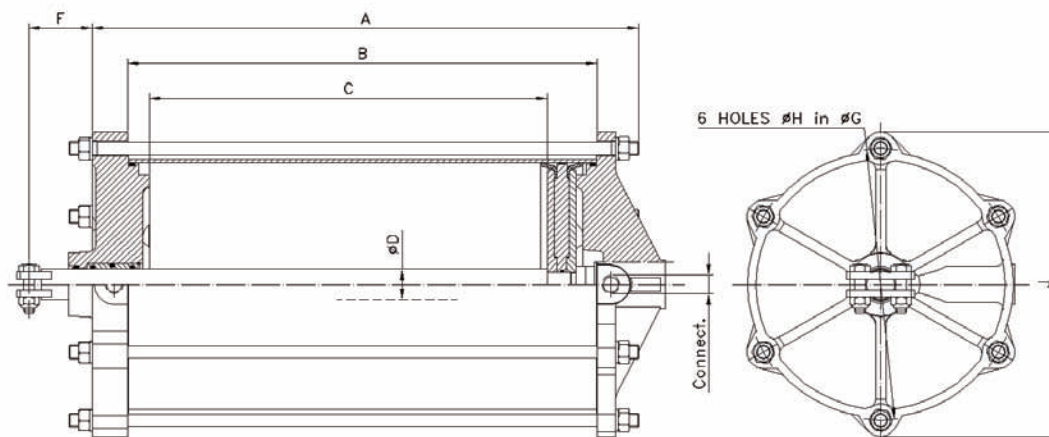
Bore sizes (mm):

DN 350 and 400

PART LIST

Item:	Description:	Material:
1	Barrel	Composite
2	Cap	Aluminium
3	Head	Aluminium
4	Piston Rod	AISI - 304
5	Bolt DIN933	AISI - 304
6	Self locking nut	AISI - 304
7	Scraper	Carbon Steel + Nitrile
8	O-ring	Nitrile
9	O-ring	Nitrile
10	Bushing	Nylon
11	Circlip DIN472	Steel
12	O-ring	Nitrile
13	Piston support plate	Carbon Steel
14	Piston	Carbon Steel
15	Piston seal	Nitrile
16	Piston slider	PTFE
17	Nut	Carbon Steel
18	O-ring	Nitrile
19	Tie rods	Carbon Steel - Zn plated
20	Washer DIN127	Carbon Steel - Zn plated
21	Nut DIN934	Carbon Steel - Zn plated



BORE SIZES 350 - 400


Ø Barrel - Valve size	A	B	C	Ø D	F	Ø G	ØH	J	Air Connections	Weight (kg)	Air (litre)
Ø 350 - 700	940	832	730	45	78.5	396	22	444	3/4"G	55	485
Ø 350 - 800	1040	932	830	45	78.5	396	22	444	3/4"G	58	552
Ø 400 - 900	1152	1044	930	50	78.5	461	27	515	3/4"G	62	807
Ø 400 - 1000	1252	1144	1030	50	78.5	461	27	515	3/4"G	65	895

Recommended cylinder bore size for standard Orbinox valves considering 6 bar of air supply:

ORBINOX VALVES (DN in mm)	EX, EK, EB, ET, BT, XC, DT, AT	TL, TK	VG
50	Cyl.100	Cyl.100	Cyl.100
65			
80			
100			
125	Cyl.125	Cyl.125	Cyl.160
150			
200	Cyl.160	Cyl.160	Cyl.200
250	Cyl.200	Cyl.200	Cyl.250
300			Cyl.300
350	Cyl.250	Cyl.250	Cyl.350
400			
450	Cyl.300	Cyl.300	Cyl.400
500			
600		Cyl.350	Cyl.350
700			
800			
900	Cyl.400	Cyl.400	
1000			
1200	-	-	

MAIN ACCESSORIES

- Magnetic limit switches set (fig.1) available for all bore sizes with special magnetic kit under the piston.
- Single acting up to 200mm bore (fig.2).
- Manual override system with two piston rods (fig.3).

Fig. 1

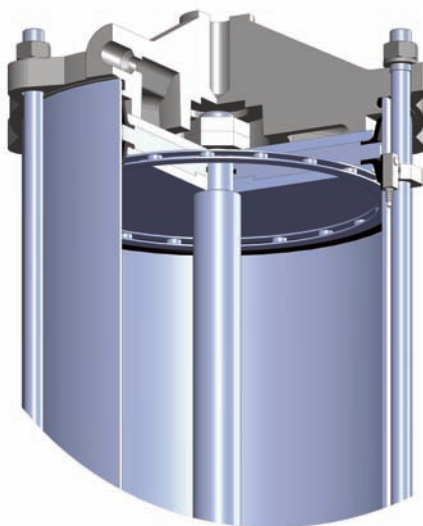


Fig. 2

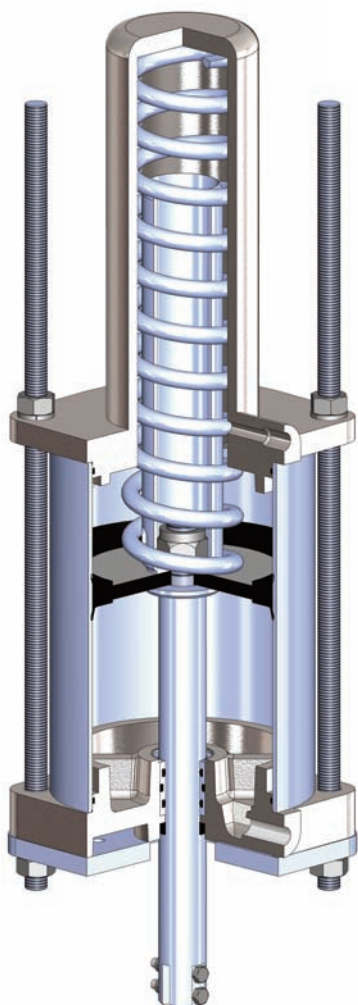


Fig. 3

