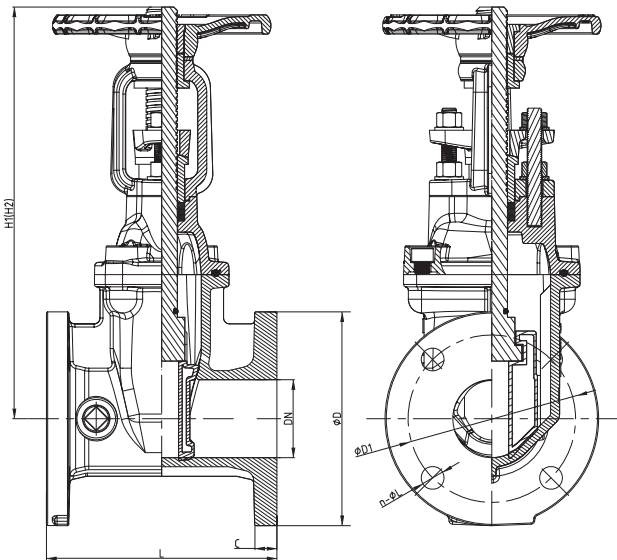




Control Valves & Devices | Gate Valves & Indicator Posts | OS&Y Gate Valve | Flanged | OSF



SPECIFICATIONS

Approvals



Sizes available (nominal)

2"/DN50, 2-1/2"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300, 14"/DN350, 16"/DN400, 18"/DN450, 20"/DN500 & 24"/DN600

Working pressure

2"-12" @ 300 psi (21 bar);
14"-24" @ 250 psi (17 bar)

Seat type

Resilient wedge

Finish

Fusion bonded epoxy coated internal & external

Material (body)

Ductile iron

Connections

Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16

Specifications

Design and dimensions conform to AWWA C515

Features

Pre-notched, stainless steel stem for easy attachment of supervisory switch

Notes

- Size 5" is only UL listed. Sizes 14" to 24" UL Listed and FM Approved as OSF2 (ANSI) or OSF3 (PN)
- A minimum pressure of 2 bar (+ 70 N.m. of torque for the handwheel) is used to ensure any leaks in the OSF valve because leaks require a pressure difference to be detected. This pressure is high enough to simulate real operating conditions and ensure the valve's integrity under normal use

Physical data | OSF

Reference*			Nominal Pipe Size		Dimensions (mm)											Weight (kg)
ANSI	PN10	PN16	inch	Metric	L	H1 (Closed)	H2 (Open)	D	C	D1			n-ØL			
										ANSI	PN16	PN10	ANSI	PN16	PN10	
OSF-0200	OSF-0200PN		2	DN50	178	348	400	152	16.0	120.7	125			4-Ø19.1		14.7
OSF-0250	OSF-0250PN		2-1/2	DN65	190	373	440	178	17.5	139.7	145			4-Ø19.1		17.7
OSF-0300	OSF-0300PN		3	DN80	203	408	490	191	19.1	152.4	160		4-Ø19.1	8-Ø19.1		23.1
OSF-0400	OSF-0400PN		4	DN100	229	471	573	229	19.1	190.5	180		8-Ø19.1	8-Ø19.1		31.6
OSF-0500**	OSF-0500PN**		5	DN125	254	541	665	254	19.1	215.9	210		8-Ø22.2	8-Ø19.1		42.2
	OSF-0600		6	DN150	267	601	755	279	19.1	241.3	240		8-Ø22.2	8-Ø23		53.2
OSF-0800	OSF-0800PN10	OSF-0800PN16	8	DN200	292	774	975	343	22.2	298.5	295		8-Ø22.2	12-Ø23	8-Ø23	91.3
OSF-1000	OSF-1000PN10	OSF-1000PN16	10	DN250	330	939	1193	406	23.8	362.0	355	350	12-Ø25.4	12-Ø28	12-Ø23	134.6
OSF-1200	OSF-1200PN10	OSF-1200PN16	12	DN300	356	1065	1370	483	25.0	431.8	410	400	12-Ø25.4	12-Ø28	12-Ø23	200.0
OSF-1400	-	OSF-1400PN16	14	DN350	381	1210	1560	533	25.0	476	470	-	12-Ø28.6	16-Ø26	-	344.0
OSF-1600	-	OSF-1600PN16	16	DN400	406	1280	1680	597	25.0	540	525	-	16-Ø28.7	16-Ø30	-	356.0
OSF-1800	-	OSF-1800PN16	18	DN450	432	1760	2210	635	25.0	578	585	-	16-Ø31.8	20-Ø30	-	532.0
OSF-2000	-	OSF-2000PN16	20	DN500	457	1780	2280	699	29.0	635	650	-	20-Ø31.8	20-Ø33	-	567.0
OSF-2400	-	OSF-2400PN16	24	DN600	508	1950	2550	813	30.0	749	770	-	20-Ø34.9	20-Ø36	-	785.0

* Valve flange drilling (size and location of bolt holes and pitch circle diameter) allows mating with the following flange types: ANSI = ANSI B16.1 Class 125 | PN10 = DIN 2501, BS 4504, EN 1092 - PN10 | PN16 = DIN 2501, BS 4504, EN 1092 - PN16

** UL Listed only

Note: This document contains basic product information only. Information, photos and drawings are not contractually binding. In all cases, the manufacturer's full technical documentation remains the reference document. Note that certificates, test reports and approvals may be published in the OEM name.

The contents of this publication are subject to modifications without notice. All rights reserved

Fireking™ is a trademark of The Viking Corporation

Trusted above all.

Viking S.A. (ed.) | 21, Z.I. Haneboesch | L-4562 Differdange/Niederkorn | Luxembourg | vikinglux@viking-emea.com | www.viking-emea.com

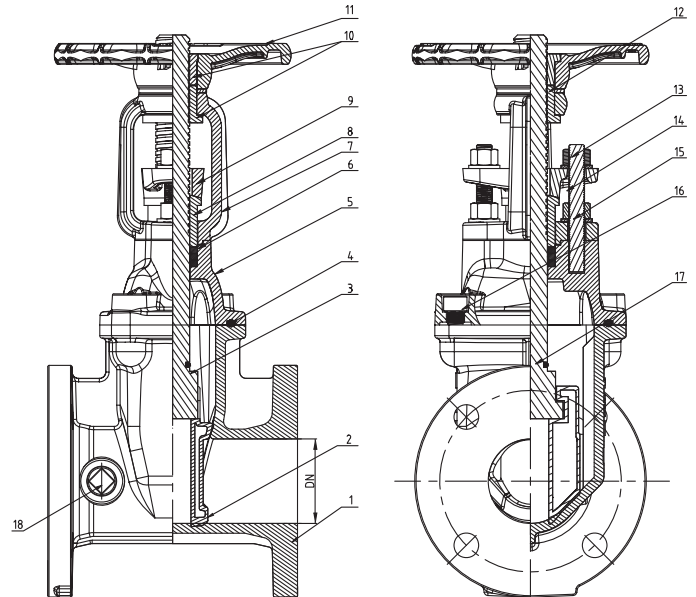




Control Valves & Devices | Gate Valves & Indicator Posts | OS&Y Gate Valve | Flanged | OSF

Materials | OSF

Item	Description	Material	Specification
1	Valve Body	Ductile Iron	ASTM A536, 65-45-12
2	Resilient Wedge Disc	Ductile Iron	ASTM A536, 65-45-12 & EPDM
3	Stem	Stainless Steel	AISI 420
4	Bonnet Gasket	EPDM	Commercial
5	Bonnet	Ductile Iron	ASTM A536, 65-45-12
6	Stem Packing	EPDM	Commercial
7	Yoke	Ductile Iron	ASTM A536, 65-45-12
8	Stem Bushing	Brass	HPb59-1
9	Gland	Ductile Iron	ASTM A536, 65-45-12
10	Stem Nut	Brass	HPb59-1
11	Handwheel	Ductile Iron	ASTM A536, 65-45-12
12	Washer	Brass	CW617N
13	Gland Nut	Carbon Steel	Zinc Plated
14	Stud	Carbon Steel	Zinc Plated
15	Flat Washer	Carbon Steel	Zinc Plated
16	Bolt	Carbon Steel	Zinc Plated
17	O-Ring	NBR	Commercial
18	Plug	Bronze	ASTM B583 C89833



Installation | OSF

1. Piping systems and valves should be thoroughly cleaned and free from ingress of foreign materials.
2. Visually inspect the valve seating and ports for cleanliness immediately prior to installation.
3. All valves should be independently supported against movement and stress from the connected piping system.
4. Ensure that the valve pressure rating is compatible with service conditions.
5. Operate the valve at least once from the open to closed position.
6. Verify that packing nuts are tight before pressurizing the system.
7. Gate valves are not suitable for throttling applications.
8. Gate valves should be installed in the vertical position on horizontal pipework and in the horizontal position on vertical pipework.

Operation | OSF

Gate valves are manually operated multi-turn valves and are opened by a handwheel or other operating device, generally in a counter clockwise direction and then closed clockwise.

Inspection & Maintenance | OSF

1. Valves should be inspected periodically and should be cycled to prevent buildup of foreign materials in the piping system and valve body.
2. In the event of a packing leak adjust the packing nuts to increase pressure on the stem packing. Packing nuts should be tightening evenly approximately a quarter turn in a clockwise direction.
3. Always shut down the system before repacking the valve. Valves are designed with backseats for repacking under pressure but this is not recommended.

Closing torque for handwheel | OSF

Size		Closing Torque Nm
2"	DN50	27
2-1/2"	DN65	38
3"	DN80	65
4"	DN100	80
5"	DN125	100
6"	DN150	125
8"	DN200	160
10"	DN250	240
12"	DN300	300
14"	DN350	306
16"	DN400	374
18"	DN450	442
20"	DN500	578
24"	DN600	646

Note: This document contains basic product information only. Information, photos and drawings are not contractually binding. In all cases, the manufacturer's full technical documentation remains the reference document. Note that certificates, test reports and approvals may be published in the OEM name. The contents of this publication are subject to modifications without notice. All rights reserved
Fireking™ is a trademark of The Viking Corporation

Trusted above all.

Viking S.A. (ed.) | 21, Z.I. Haneboesch | L-4562 Differdange/Niederkorn | Luxembourg | vikinglux@viking-emea.com | www.viking-emea.com

