



IMPROVED OPERATIONAL RELIABILITY AND QUALITY

CSG Valves offers improved operational reliability and quality based upon our unique design features.

STAINLESS STEEL AISI 304 OR AISI 316



CSG Valves has developed and manufactured a thrust bearing in 304/316 stainless steel which offers a reduced operating torque by a factor of 4.

The dual sealing arrangement designed by CSG offers a higher sealing capability and maintains a low friction coefficient.

The backing plate is manufactured from 30 mm HDPE sheet offering a robust construction ensuring free running of the spindle even on buried service application.

Rather than a free standing plastic spindle/cover protection tube our stainless steel protection tube contributes to the rigidity of the construction. A stainless spindle/cover tube offers a more robust solution than a polycarbonate or plastic protection tube.





STAINLESS STEEL Z-PROFILE

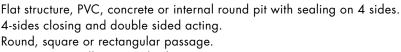
Stainless steel Z-profile rather than U-profile results in improved assembly. Additional stainless ribbing results in improved rigidity and fixing. Self-lubricating polyacetal thread block absorbs little moisture and retains its shape well.

Spindle with greater speed than DIN 103 ensures fewer revolutions are necessary resulting in a stronger thread block forming.



Penstocks are manually, electrically, hydraulically or pneumatically operated to suit the application.





Non-rising spindle as standard.

INSTALLATION

Improved operational reliability is guaranteed with the use of the symmetrically formed anchor plate which ensures the installation is undertaken with ease.

APPLICATIONS

Drainage water purification installations and culvert pipes for water authorities.



PENSTOCK - WALL MOUNTED



CERTIFICATE

ISO 9001: 2008

INDUSTRIAL STANDARD

BS7775:2005 / DIN 19569-4 class 5

ADVANTAGES

Light construction

High duty construction

Minimal maintenance

Stainless steel thrust bearing

Backing plate HDPE thickness 30 mm

Stainless steel Z-profile allows easy mounting

Stainless steel spindle tube

A sealing ring carried out with redundancy

Self-lubricating polyacetal thread block

CHARACTERISTICS

Size 100 - 3600 mm

Standard 6 mwc

Double acting

4-sides closing

Standard non-rising spindle

Round, square or rectangular passage

TYPES OF OPERATION

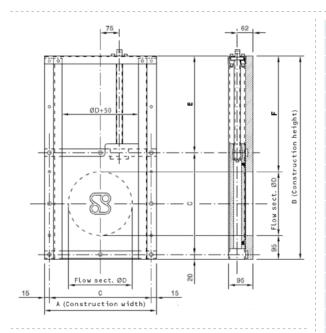
Manual

Electric

Hydraulic

Pneumatic

STANDARD SERIES DN 150- DN 600



ØD	Α	В	С	Е	F	Weight
150	340	600	300	280	355	16 kg
200	390	700	350	330	405	22 kg
250	440	800	400	380	455	26 kg
300	490	900	450	430	505	31 kg

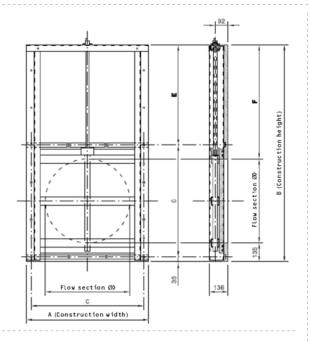
INDUSTRIAL STANDARD
BS7775:2005 / DIN 19569-4 class 5
LOADING CHARACTERISTICS
6 mwc on & off-seating
4-sides closing, double acting

STANDARD CONSTRUCTION MATERIALS			
Frame	Stainless steel AISI 316		
Slide gate	HMPE-500		
Backing plate	HDPE-300 (30 mm)		
Reinforcements	Stainless steel AISI 316		
Non-rising spindle	Stainless steel AISI 316 TR25x7.5		
Spindle bearing	PTFE		
Threaded lift block	POM (self-lubricating)		
Bolts and nuts	Stainless steel A4		
Sealing	EPDM		

OPTIONAL CONSTRUCTION MATERIALS			
Frame	Stainless steel AISI 304		
Slide gate	Stainless steel AISI 304		
Reinforcements	Stainless steel AISI 304		
Threaded lift block	Bronze		
Sealing	NBR		

OPTIONAL FEATURES Non-standard sizes Electric, hydraulic or pneumatic operated Rising spindle Wedge construction MOUNTING SET INCLUDING COMPRIBAND DN 150 8x anchor M12 DN 200 8x anchor M12

STANDARD SERIES DN 400 - DN 900



ØD	Α	В	С	Е	F	Weight
400	670	1150	600	515	615	55 kg
500	770	1350	700	615	715	75 kg
600	870	1550	800	715	815	90 kg
700	970	1750	900	815	915	110 kg
800	1070	1950	1000	915	1015	130 kg
900	1170	2150	1100	1015	1115	155 kg

INDUSTRIAL STANDARD

BS7775:2005 / DIN 19569-4 class 5

LOADING CHARACTERISTICS

6 mwc on & off-seating 4-sides closing, double acting

STANDARD CONSTRUCTION MATERIALS

Frame RVS AISI 316 HDPE-300 Slide gate Backing plate HDPE-300 (30 mm) Reinforcements RVS AISI 316 Non-rising spindle RVS AISI 316 TR25x7.5L Spindle bearing Stainless steel thrust bearing Threaded lift block POM (self-lubricating) Bolts and nuts RVS A4 Sealing **EPDM**

OPTIONAL CONSTRUCTION MATERIALS

Frame	Stainless steel AISI 304
Slide gate	Stainless steel AISI 304 or AISI 316
Reinforcements	Stainless steel AISI 304
Threaded lift block	Bronze
Sealing	NBR

OPTIONAL FEATURES

Non-standard sizes

Electric, hydraulic or pneumatic operated

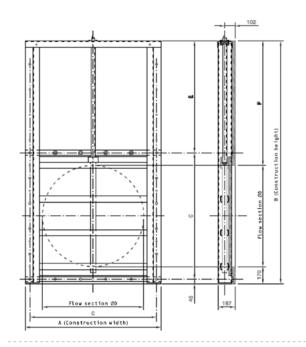
Rising spindle

Wedge construction

MOUNTING SET INCLUDING COMPRIBAND

DN 400	12x anchor M12
DN 500	12x anchor M12
DN 600	12x anchor M12
DN 700	12x anchor M12
DN 800	18x anchor M18
DN 900	18x anchor M12

STANDARD SERIES DN 1000 - DN 3000



ØD	Α	В	С	Е	F	Weight
1000	1340	2400	1250	1105	1230	1 <i>75</i> kg
1250	1590	2900	1500	1355	1480	225 kg
1500	1840	3400	1750	1605	1730	255 kg



ØD	Α	В	С
1800	2200	4200	2120
2000	2400	4600	2320
2500	2900	5600	2820
3000	3400	6600	3320

Stainless steel slide gate

Two synchronised spindles

INDUSTRIAL STANDARD

BS7775:2005 / DIN 19569-4 class 5

LOADING CHARACTERISTICS

6 mwc on & off-seating 4-sides closing, double acting

STANDARD CONSTRUCTION MATERIALS

Frame RVS AISI 316
Slide gate HDPE-300
Reinforcements RVS AISI 316
Non-rising spindle RVS AISI 316 TR40x7.5L
Spindle bearing RVS AISI 316 thrust bearing
Threaded lift block POM / Bronze
Bolts and nuts RVS A4
Sealing EPDM

OPTIONAL CONSTRUCTION MATERIALS

Frame Stainless steel AISI 304
Slide gate Stainless steel AISI 304 or AISI 316
Reinforcements Stainless steel AISI 304
Sealing NBR

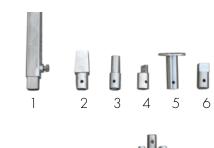
OPTIONAL FEATURES

Non-standard sizes Electric, hydraulic or pneumatic operated Rising spindle

Wedge construction

MOUNTING SET INCLUDING COMPRIBAND

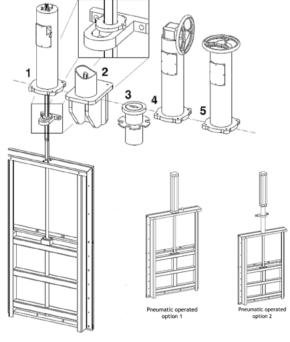
DN 1000 22x anchor M16 DN 1250 22x anchor M16 DN 1500 30x anchor M16











OPERATING CONNECTORS

- 1 Spindle extension 0.5 12 meter
- 2 Conical tip $27 \times 32 \times 50$ mm (1:10 mm)
- 3 Connector for actuator \varnothing 20 mm with parallel key 6 mm and HMPE actuator seating 100 x 100 x 40 mm (connecting flange GO as per ISO 5210)
- 4 Standard connector Ø 20 mm
- 5 Connector for handwheel
- 6 Square tip

SPINDLE EXTENSION						
Telesc	Telescopical adjustable					
Туре	length from	length to [m]	no. of consoles			
Tl	0.5	0.75	1			
T2	0.75	1	1			
Т3	V	1.5	2			
T4	1.5	2	2			
T5	2	2.5	3			
T6	2.5	3	3			
T7	3	3.5	4			
T8	3.5	4	4			
T9	4	4.5	5			
T10	4.5	5	5			

OPER/	ATING ACCESSORIES
1	Pedestal with actuator seating and actuator connector
2	Console for flat wall mounting
3	Airtight operating pit for embedding in concrete
4	Pedestal, operation by means of handwheel, mounted on a gearbox. Gearbox and hand- wheel
5	Pedestal, operation by means of handwheel
	Material handwheel: HDPE-300
	Diameter of handwheel: Ø 350 mm