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UNIVERSAL GATE VALVE **SU59**





SU59

Universal gate valve

DN 100 to 250
PN 10, PN 16 and PN 100

Description

Universal gate valves SU59 are full-bore shut-off valves designed for the transport of slurries and liquids. The valves are yoke-type with a one-sided sealing wedge. The body and wedge are equipped with replaceable seats featuring a hardfaced sealing surface. Due to low operating forces, the stem nut is mounted on a ball bearing. The stem is rising and non-rotating. Operated by electric actuator.

Application

SU59 gate valves are intended as shut-off valves for operation in conditions where the medium consists of slurries (hydro-mixtures).

Working media

SU59 is designed for the transport of slurries and liquids such as ore concentrates, coal, water, slag and other mixtures with grain size up to 20 mm, plus other media compatible with the body material and internal protective lining PA11 Rilsan.

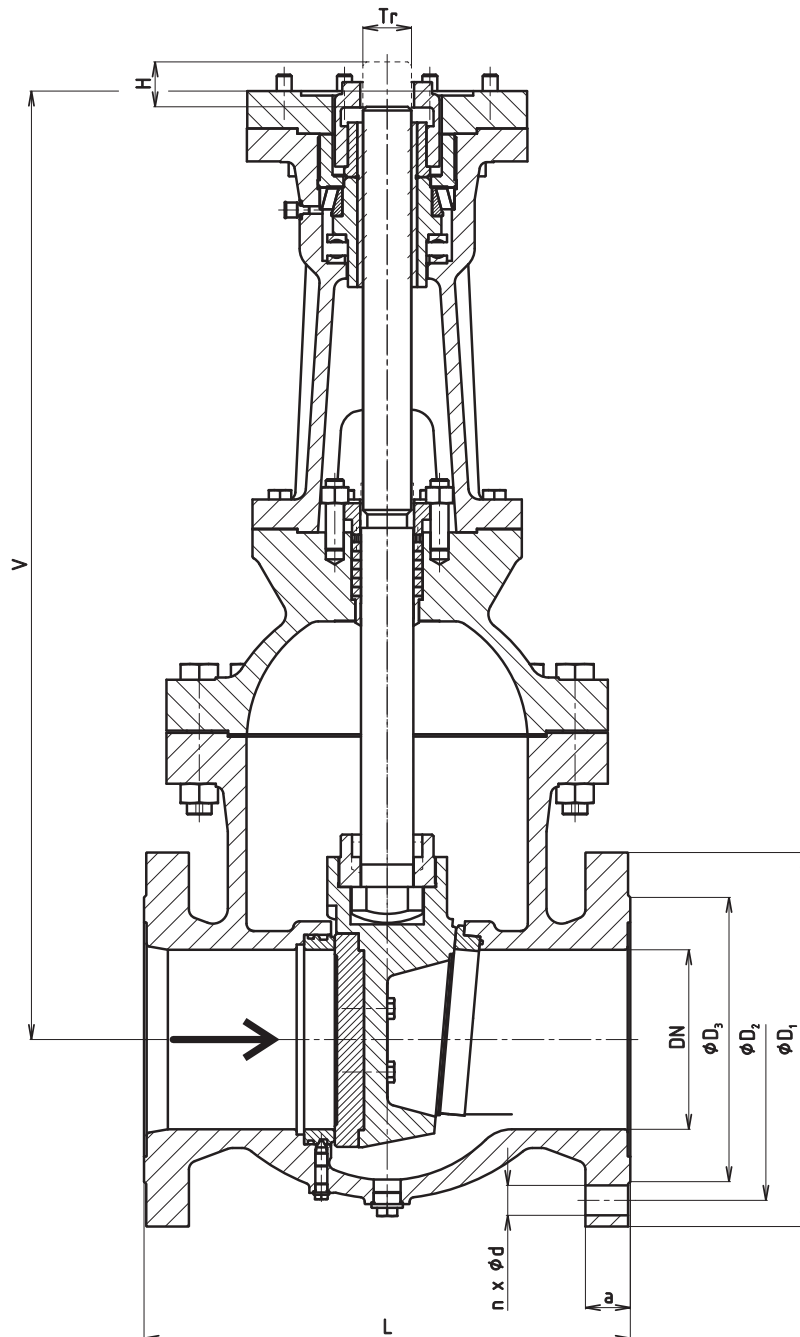
Mounting positions

The valve must always be installed in the pipeline so that the direction of media flow matches the arrow on the body. Any mounting position is permitted except when the actuator is positioned below the valve.

Technical parameters	
Series	SU59
Type of valve	Universal one-sided yoke gate valve
Nominal size range	DN 100 to 250
Nominal pressure	PN 10, PN 16 and PN 100
Body material	42 2714 (GS-20Mn5)
Seat material (body)	1.4541 + stelit
Seat material (wedge)	42 2643 + stelit
Range of working temperatures	+5 to 70 °C
Face-to-face dimension	According to ČSN 13 3045
Flow characteristic	Shut-off
Leakage rate	Class D according to ČSN EN 12266-1 (Class D according to GOST 9544-93)
Packing	Expanded graphite
Flange dimensions	ČSN EN 1092-1

Dimensions and weights of SU59

DN	PN	H [mm]	L [mm]	V [mm]	ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	a	n x Ød	Tr	weight [kg]
100	10 16	115	230	583	220	180	158	20	8x18	28x5	70
150	10 16	165	280	740	285	240	212	22	8x22	32x6	-
200	10	220	330	930	340	295	268	24	8x22	36x6	206
200	16	220	330	930	340	295	268	24	12x22	36x6	205
250	10	264	450	1120	395	350	320	26	12x22	44x8	310
250	16	264	450	1120	405	355	320	26	12x26	44x8	315
100	100	115	350	945	265	210	158	36	8x30	28x5	-
250	100	275	650	1265	505	430	345	60	12x39	65x10	895



Data for actuator specification

Gate valves are operated by multi-turn actuators from domestic and foreign manufacturers [ZPA Pečky](#), [Regada Prešov](#), [Auma](#) and [Schiebel](#). Gate valves with actuators are setup so that in the “closed” position, i.e. when closing into the seat, the torque switch trips. In the “open” position they are adjusted so that the limit switch trips (the torque switch for the “open” position is set as a safety feature preventing damage to the valve).

The drive flange is designed to allow the actuator to be rotated by 45°.

Assignment of multi-turn actuators to valves						
DN	PN	travel [mm]	rotation speed / travel	closing torque [mm]	thread [mm]	connection according to DIN 3338
100	10 16	115	23	35	Tr 28x5	F10 / type C
150	10 16	165	27.5	63	Tr 32x6	F14 / type C
200	10 16	220	39	80	Tr 36x6	F14 / type C
250	10 16	264	33	250	Tr 44x8	F16 / type C
100	100	115	23	150	Tr 28x5	F14 / type C
250	100	275	30	1400	Tr 65x10	F30 / type C

Scheme of complete type number assembly SU59						
		XXXX SU59	XXX	- X	XXX	- XXX
Type	Universal gate valve					
Actuation	Without actuation		110			
	With electric servomotor		113			
Body material	422714			2		
Nominal pressure	PN 10				010	
	PN 16				016	
	PN 100				100	
Nominal size	DN - according to design					100

Ordering example: **SU59 113-2016-100**



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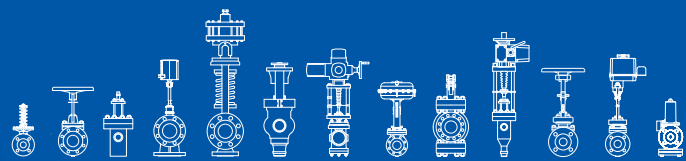
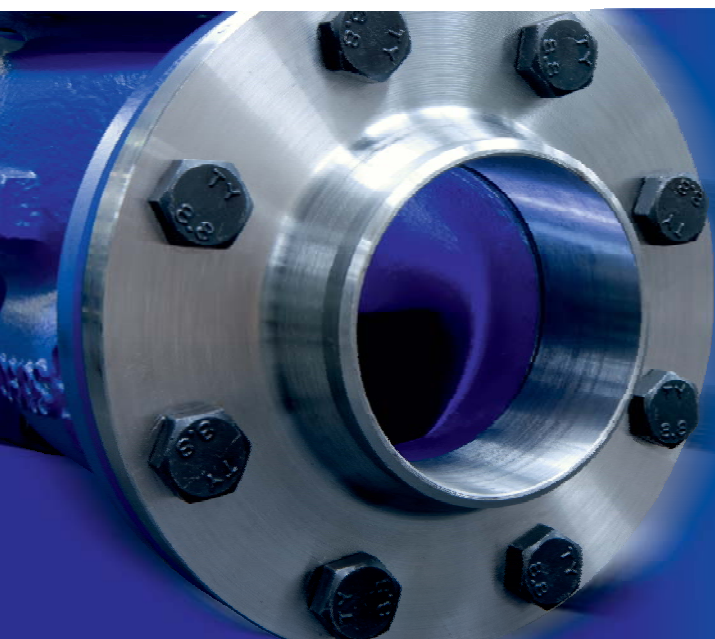
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