



SCHMIDT ARMATUREN
Zweigniederlassung der
Flowserve (Austria) GmbH

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Department
Att. Hr.Schrörs

Documentation

STAN 0425521-0

Your inquiry/order no. 4500024337
Project

Zertifizierung unseres QM-Systems nach EN ISO 9001:2000
Certification of our quality system acc. to EN ISO 9001:2000

Weitere Zulassungen und Zertifikate / Other approvals and certificates:

Richtlinie 97/23/EG Mod. H / Directive 97/23/EC Mod. H
-EN 729-2
-AD HP 0
-TRD 110

Pos.-No. 1
TAG-no. HV67110

Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator
V726 DKVIN	40	40	1.4308/OBAB	POWT1GG	25	16	1.4571	IT 252CVCOZA

1 pc. Control Valve DN 40, PN 40

Type V726 FLOWTOP Single seat-control valve
Body D Straight way, 3-flange
Connection type K Flange, surface form B1 acc. to EN 1092-1
Balance V Not balanced
Bonnet I Insulating bonnet
Stuffing box packing N PTFE-rings live loaded

Body material no. 1.4308 stainless steel
Regulations for material O PED Standard
Material certificate B EN 10204-3.1B (Summary of certificates)
Regulations for final test A EN 1349 Standard (IEC-534/FCI 70-2)
Final test certificate B EN 10204-3.1B

Plug design P Parabolic plug
Trim equipment O Without additional trim equipment
Construction W Soft seat (PTFE)
Seat leakage T Class VI IEC/FCI
Plug guiding 1 Top guided
Characteristic G Modified equal percentage
Flow direction G Pressure opens the plug
Seat 25 mm
kvs-value 16 m³/h
Stroke 20 mm
Trim material no. 1.4571

Max. diff. pressure 40,00 bar
Nec.force 2720 N
Actuator IT 252
Colour C Yellow
Spring / range VC 1,50 - 2,70 bar
Manual operation O without handwheel
failsafe position Z at air failure close
Nec. /max. air supply 2,90 bar / 6 bar

Filterregulator FRS 923-2SK with 1 gauge

Tubing CrNi-steel
Screwed connection CrNi-steel
Dimension 12 mm
Screwed type Swagelok Screwed

Oil- and greasless for oxygen
- oil- and greaseless for oxygen (T007) - Code O
incl. marking and with manufacturer certificate acc. point 11
of MG-standard 06401

Spec. Accessory
- HERION solenoid valve type 2401109.4260
24VDC, IP66, EEx me II T4/T6, 3,9W
with TÜV approval up to AK7 /SIL4
with adapter from M20 to 1/2" NPT electr. connection

with Exhaust protector IP65 No. 126.920.00

- 1/2" ANSI tubing with Swagelok screwed connection

Specify

The valve offered in the attached quotation are suitable for use in safety related systems up to SIL 4 according to IEC 61508 in accordance with TÜV test report No. V 56 2004 T1.

The suitability of additional mounted safety related components (e.g. solenoid valve, positioner)

can

be reviewed in the corresponding documents and test reports.

- Valve according to SIL 3

Schließzeit (entlüften): 1,9 s

Pos.-No. 2
TAG-no. HV20003

Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator
V726 DKONN	100	40	1.0619/OBAB	POWQ1LG	100	180	1.4571	IT 502CDYOZB

1 pc. Control Valve DN 100, PN 40

Type V726 FLOWTOP Single seat-control valve
Body D Straight way, 3-flange
Connection type K Flange, surface form B1 acc. to EN 1092-1
Balance O Balanced with V-rings
Bonnet N Standard bonnet
Stuffing box packing N PTFE-rings live loaded

Body material no. 1.0619 cast steel
Regulations for material O PED Standard
Material certificate B EN 10204-3.1B (Summary of certificates)
Regulations for final test A EN 1349 Standard (IEC-534/FCI 70-2)
Final test certificate B EN 10204-3.1B

Plug design P Parabolic plug
Trim equipment O Without additional trim equipment
Construction W Soft seat (PTFE)
Seat leakage Q Class IV-S1 IEC/FCI
Plug guiding 1 Top guided
Characteristic L Linear
Flow direction G Pressure opens the plug
Seat 100 mm
kvs-value 180 m³/h
Stroke 40 mm
Trim material no. 1.4571

Max. diff. pressure 30,00 bar
Nec.force 3450 N
Actuator IT 502
Colour C Yellow
Spring / range DY 1,00 - 2,40 bar
Manual operation O without handwheel
failsafe position Z at air failure close
Nec. /max. air supply 2,50 bar / 6 bar

Filterregulator FRS 923-2SK with 1 gauge

Tubing CrNi-steel
Screwed connection CrNi-steel
Dimension 6 mm
Screwed type Swagelok Screwed

Oil- and greaseless for oxygen
- oil- and greaseless (T007) - Code P
incl. marking and with manufacturer certificate acc. point 11
of MG-standard 06401

Spec. Accessory
- HERION solenoid valve type 2401109.4260
24VDC, IP66, EEx me II T4/T6, 3,9W
with adapter from M20 to 1/2" NPT electr. connection
with Exhaust protector IP65 No. 126.920.00

- 1/4" ANSI tubing with Swagelok screwed connection

Pos.-No. 1
TAG-no. HV67110

Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator
V726 DKVIN	40	40	1.4308/OBAB	POWT1GG	25	16	1.4571	IT 252CVCOZA

Operating conditions

Medium OXYGEN
Process data Liquid

Abs. upstream pressure	bar	16	25
Abs. downstream pressure	bar	15,9	24,9
Working temperature	C	-186	-186
Flow rate at operating condition	m3/h	1,85	1,85
Density at operating condition	kg/m3	1159,6	1161,5
Abs. pressure of vapour	bar	1	1
Abs. critical pressure	bar	200	200
Calculated kv-value	m3/h	6,3	6,31
Operation at (stroke)		69,00	69,00
FI-factor		0,9422	0,9422
Zy-factor		0,5430	0,5429
Calculated noise-level	dB(A)	40	40
Noise-level reduction	dB(A)		
Correction value	dB(A)		
Corrected noise-level	dB(A)		
Velocity at valve inlet	(40) m/s	0,4089	0,4089
Velocity in upstream pipe	(40) m/s	0,4089	0,4089
Cavitation - partial (pK) / maximum (mK)			
Flashing (A)			

Design data

Body material		1.4308
design pressure	bar g	24,00
max. design temperature	deg C	40,00
min. design temperature	deg C	-196,00

Data of actuator

Max. differential pressure	40,00 bar
Necessary force	2720 N
Force of actuator	3.750,00 N
Spring range	1,50 - 2,70 bar
Necessary air supply	2,90 bar
Max. allowable air supply	6 bar
Positioner necessary	Yes

Pos.-No. 2
TAG-no. HV20003

Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator
V726 DKONN	100	40	1.0619/OBAB	POWQ1LG	100	180	1.4571	IT 502CDYOZB

Operating conditions

Medium GAN
Process data Gas

Abs. upstream pressure	bar	21,06
Abs. downstream pressure	bar	21
Working temperature	C	20
Normal flow rate	Nm3/h	3500
Normal density	kg/Nm3	1,25
Isentropic exponent		1,40
Real gas exponent Z		1,00
Calculated kv-value	m3/h	114,96
Operation at (stroke)		65,00
Xt-factor		0,6660

Calculated noise-level	dB(A)	58
Noise-level reduction	dB(A)	
Mach Number Correction	dB(A)	-14
Correction value	dB(A)	
Corrected noise-level	dB(A)	44
Velocity at valve outlet	(100) m/s	6,33
Velocity in downstream pipe	(100) m/s	6,33
Choked flow (DB)		

Design data

Body material		1.0619
design pressure	bar g	20,06
max. design temperature	deg C	50,00
min. design temperature	deg C	-25,00

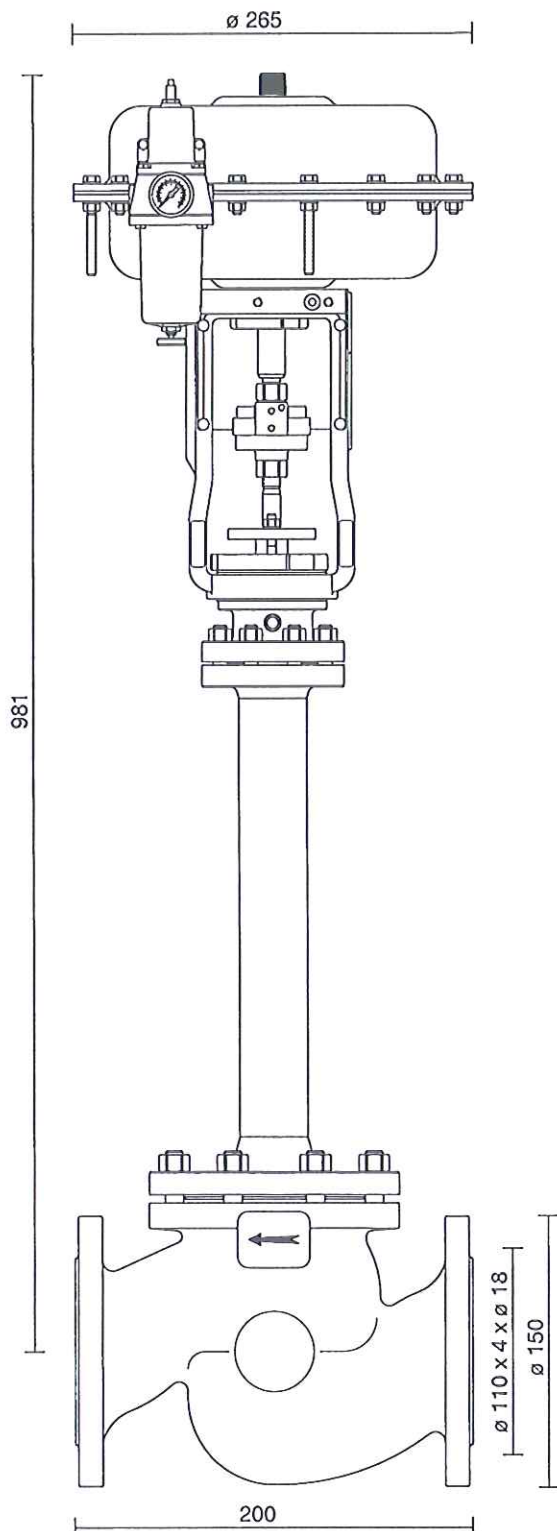
Data of actuator

Max. differential pressure	30,00 bar
Necessary force	3450 N
Force of actuator	5.000,00 N
Spring range	1,00 - 2,40 bar
Necessary air supply	2,50 bar
Max. allowable air supply	6 bar
Positioner necessary	Yes

Project:
 Project Nr: 4500024337
 TAG-Nr.: HV67110

STAN 0425521-0, Pos. 1
 23.02.2005
 ZenkID

Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator	S
V726 DKVIN	40	40	1.4308/OBAB	POWT1GG	25	16	1.4571	IT 252CVCOZA	



VALVE

Type:
 V726 FLOWTOP-Single seat-control valve
 Body:
 Straight way, 3-flange
 Connection type:
 Flange, surface form B1 acc. to EN 1092-1
 Balance:
 Not balanced
 Bonnet
 Insulating bonnet

Option
 Öl & Fettfrei:

- oil- and greaseless for oxygen T007 - Code O
 incl. marking and with manufacturer certificate acc. point
 of MG-standard 06401

Spezifikationen:

The valve offered in the attached quotation are suitable for
 up to SIL 4 according to IEC 61508 in accordance with TI
 The suitability of additional mounted safety related compo
 be reviewed in the corresponding documents and test rep

- Valve according to SIL 3

Schließzeit entlüften: 1,9 s

ACTUATOR

Actuator:
 IT 252
 Colour:
 C Yellow
 Manual operation:
 without handwheel
 failsafe position:
 Z at air failure close

ACCESSORY

Filterregulator:

FRS 923-2SK with 1 gauge
 Pneum. connections :1/4"-18 NPT

Option
 Sonderzubehör:

- HERION solenoid valve type 2401109.4260
 24VDC, IP66, EEx me II T4/T6, 3,9W
 with TÜV approval up to AK7 /SIL4
 with adapter from M20 to 1/2" NPT electr. connection
 with Exhaust protector IP65 No. 126.920.00

- 1/2" ANSI tubing with Swagelok screwed connection

Project:
 Project Nr: 4500024337
 TAG-Nr.: HV20003

STAN 0425521-0, Pos. 2
 23.02.2005
 ZenkID

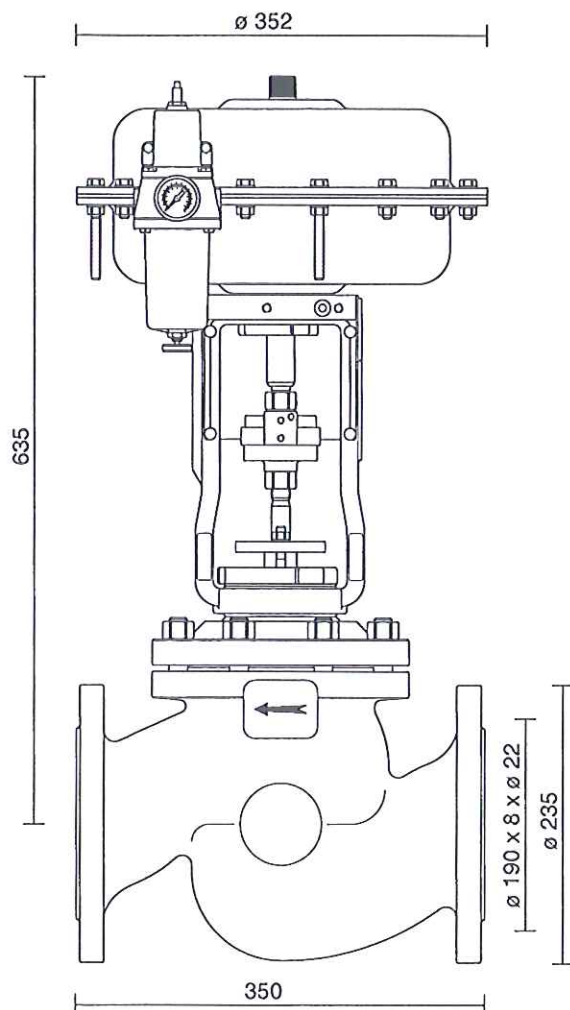
Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator	S
V726 DKONN	100	40	1.0619/OBAB	POWQ1LG	100	180	1.4571	IT 502CDYOZB	

VALVE

Type:
 V726 FLOWTOP-Single seat-control valve
 Body:
 Straight way, 3-flange
 Connection type:
 Flange, surface form B1 acc. to EN 1092-1
 Balance:
 Balanced with V-rings
 Bonnet
 Standard bonnet

Option
 Öl & Fettfrei:

- oil- and greaseless T007 - Code P
 incl. marking and with manufacturer certificate acc. point 1
 of MG-standard 06401



ACTUATOR

Actuator:
 IT 502
 Colour:
 C Yellow
 Manual operation:
 without handwheel
 failsafe position:
 Z at air failure close

ACCESSORY

Filterregulator:

FRS 923-2SK with 1 gauge
 Pneum. connections :1/4"-18 NPT

Option
 Sonderzubehör:

- HERION solenoid valve type 2401109.4260
 24VDC, IP66, EEx me II T4/T6, 3,9W
 with adapter from M20 to 1/2" NPT electr. connection
 with Exhaust protector IP65 No. 126.920.00

- 1/4" ANSI tubing with Swagelok screwed connection

Total weight app. 89 kg