



SCHMIDT ARMATUREN
Zweigniederlassung der
Flowserve (Austria) GmbH

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Documentation

STAN 0520552-0

Your inquiry/order no. wird nachgereicht!
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. PV48027

Type	DN	PN/CI	Body	Plug	Seat	kvs/cv	Trim	Actuator
V726 DKVIN	50	40	1.4308/OBAB	POWT1GG	34	25	1.4571	IT 502CDYOZA

1 pc. Control Valve DN 50, 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 34 mm
kvs-value 25 m³/h
Stroke 20 mm
Trim material no. 1.4571

Max. diff. pressure 40,00 bar
Nec.force 4540 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 2,60 bar / 6 bar

Positioner SRD 991-BDNS7EA4NA+EBZG-E, Electro-pneumatic positioner,
direct mounted, Explosion proof II 2 G EEx ia IIC T4
Input signal 4 (Close) - 20 (Open) mA

Filterregulator FRS 923-2SK with 1 gauge

Tubing CrNi-steel
Screw connection CrNi-steel
Dimension 6 mm
Screw 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

- 1/4" ANSI tubing with Swagelok screwed connection
- positioner with LCD w/Menue language in English/German/French (code "V01")

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V726 DKVIN	50	40	1.4308/OBAB	POWT1GG	34	25	1.4571	IT 502CDYOZA

Operating conditions

Medium Argon
Process data Liquid

Abs. upstream pressure	bar	23	23
Abs. downstream pressure	bar	22,5	22,5
Working temperature	C	-180	-180
Flow rate at operating condition	m3/h	12,09	0,6537
Density at operating condition	kg/m3	1364,6	1364,6
Abs. pressure of vapoure	bar	0,1	0,1
Abs. critical pressure	bar	48,64	48,64
Calculated kv-value	m3/h	19,97	1,08
Operation at (stroke)		93,00	11,00
FI-factor		0,9184	0,9625
Zy-factor		0,4194	0,7271
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	(50) m/s	1,71	0,0925
Velocity in upstream pipe	(50) m/s	1,71	0,0925
Cavitation - partial (pK) / maximum (mK)			
Flashing (A)			

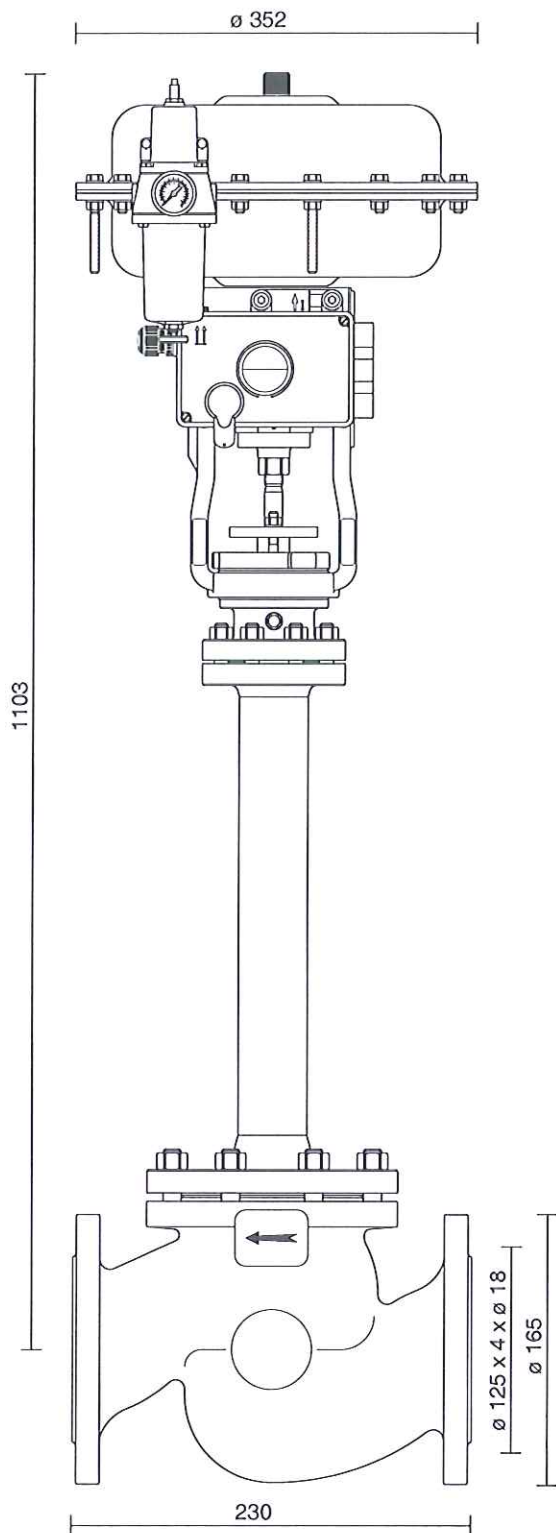
Data of actuator

Max. differential pressure	40,00 bar
Necessary force	4540 N
Force of actuator	5.000,00 N
Spring range	1,00 - 2,40 bar
Necessary air supply	2,60 bar
Max. allowable air supply	6 bar
Positioner necessary	Yes

Project:
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STAN 0520552-0, Pos. 1
 11.02.2005
 ZenKID

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V726 DKVIN	50	40	1.4308/OBAB	POWT1GG	34	25	1.4571	IT 502CDYOZA	



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

ACTUATOR

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

ACCESSORY

El. Pneum. Positioner:

Fab. Foxboro Eckardt
 type: SRD 991-BDNS7EA4NA+EBZG-E
 direct mounted
 protection class: II 2 G EEx ia IIC T4
 pneum. connection: backside with O-ring
 elec. connection: M 20x1,5 cable diameter 6 to 12mm

Filterregulator:

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

Option
 Sonderzubehör:

- 1/4" ANSI tubing with Swagelok screwed connection

- positioner with LCD w/Menue language in English/Gerr
 code "V01"

Total weight app. 48 kg