

**Locking cap**  
turned upside down:  
adjustment mechanism untightened.  
turned downwards:  
adjustment mechanism blocked  
(operation modus).

**Dosing knob**  
- with display window (revs.), scale (index 0,02) and blocking lever  
- 1 rev. corresponds to 3,5 mm<sup>3</sup> modification of dosing volume  
- continuous adjustment up to 15 revs. (15 X 3,5 = 52,5mm<sup>3</sup>)  
- material: POM/ Al/ steel, zinc coated

**Pneumatic actuator**  
- cylinder ø20x18  
- piston with solenoid for position control  
- material: CuZn38Pb2 (Ms, nickel plated)/ NBR/ 1.4310 (stainless steel)

**Location hole**  
- for inserting centring sleeves  
- accurate position/reproducible orientation of the volume dosing valve

**Dosing chamber**  
- material: CuZn38Pb2 (Ms, nickel plated)/ FKM (viton)/ 1.4310 (stainless steel)

**Nozzle flange**  
- adaption interface for further nozzle alternatives  
- material: 1.4305 (stainless steel)/ FKM (viton)

**Application nozzle**  
- exchangeable (different kinds and sizes of nozzles)  
- this one: coaxial spray head: center (medium)=ø1,5mm, application air - annular gap = 0,25 mm  
- material: 1.4305 (stainless steel)/ FKM (viton)

**Application air connection**  
- application air intensity: according to individual application needs

**Compressed air connection**  
- operation of dosing valve can be selected as single-acting or double-acting:  
single-acting operation: 3/2 way valve with connection "A", muffler at "B"  
double-acting operation: 5/2 way valve with connection "A" and "B": exhaust air throttle at "B"

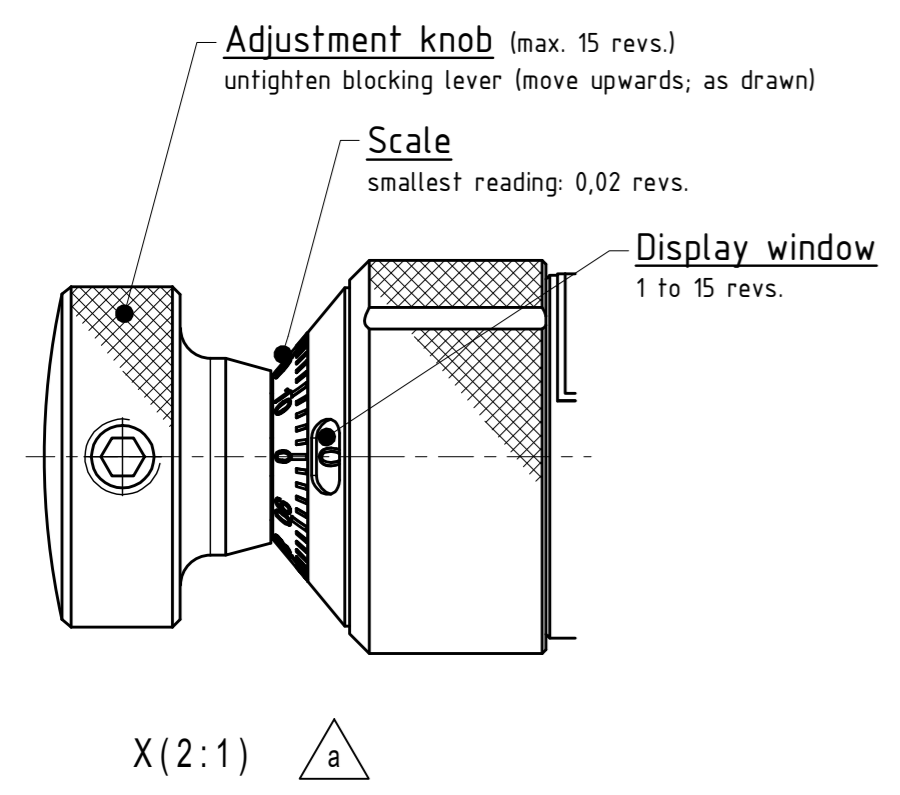
**Fluid connection**  
- fluid input pressure: P=1 to 6 bar

**Features:**

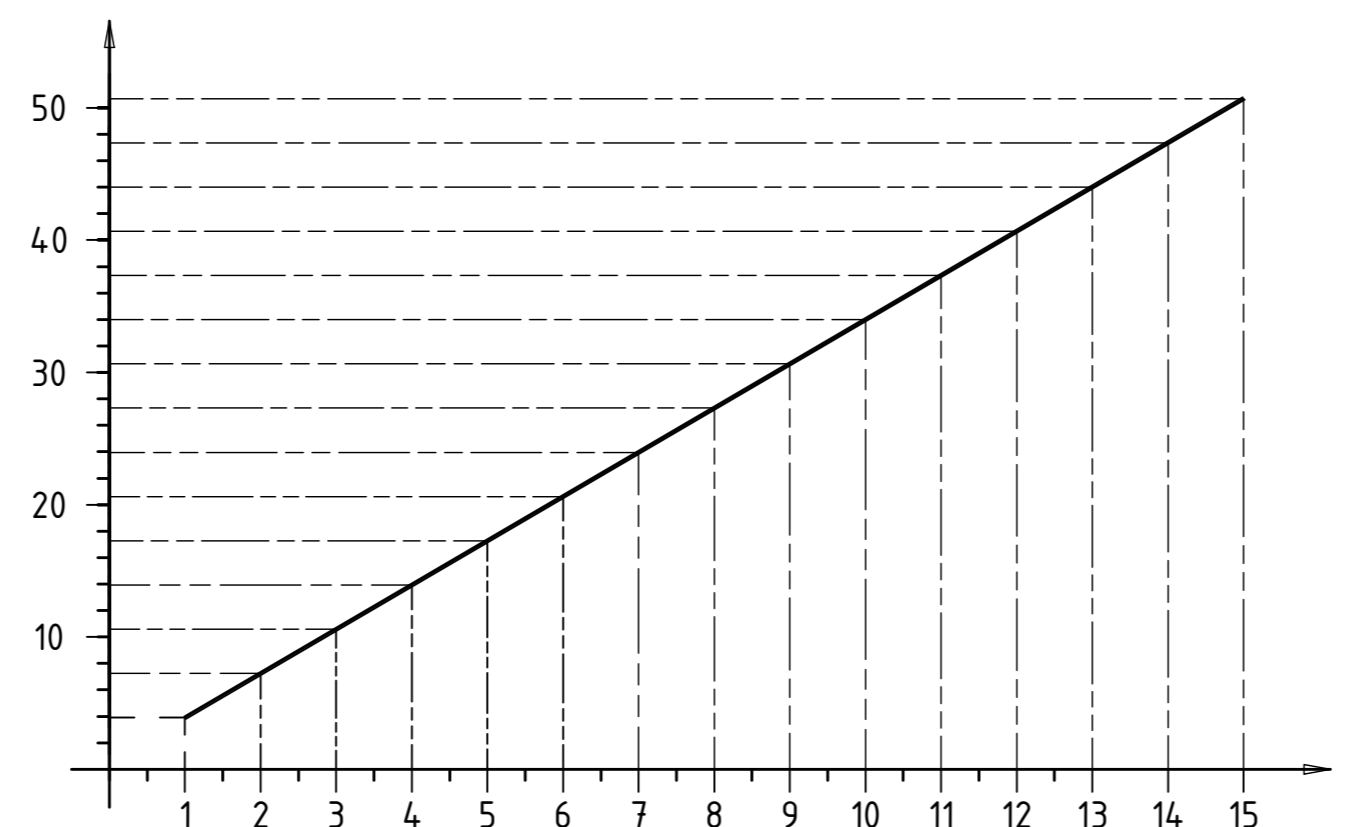
- application: volumetric dosing of liquid and paste-like media such as e.g. lubricants
- continuous and linear adjustment of dosing volume ranging from ca. 5 to 50 mm<sup>3</sup>/stroke
- pinpoint "shot" of the dosing medium (contact-free application) up to several meters (adjustable)
- coaxial dosing head with application air connection (delay spray: cleaning of the spray head)
- accurate reproducibility of the dosing process
- position survey of the dosing hub by means of cylinder switch (solenoid piston)

**Technical data:**

- compressed air supply: P= 4 to 6 bar, QN > 30 l/min, oil-free and filtered
- input pressure of medium: P= 1 to 6 bar
- max. dosing volume: 50 mm<sup>3</sup>/ hub
- max. dosing frequency: 180 strokes/min (depending on viscosity and on adjusted dosing volume)
- adjustment of dosing volume: 1 rev. of the dosing knob corresponds to 3,5 mm<sup>3</sup> modification of the volume (15 revs. X 3,5 mm<sup>3</sup> = 52,5 mm<sup>3</sup>)



**Dosing volume/stroke [mm<sup>3</sup>]**



**Turning knob revs.**

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<b>WERUCON</b> WERUCON GmbH / Bremen - Germany Nantes-Straße 3, 28309 Bremen Telefon: +49 421 223085-0 / Fax: +49 421 223085-99 E-Mail: info@werucon.de Internet: www.werucon.de		Modell / part: 26.05.2012 Kort gez. / drawn: 29.05.2012 Kort kontr. / checked:		Bezeichnung / designation <b>ZB Volumen-Dosierventil vst</b> max. dosing volume: 50mm <sup>3</sup> /stroke valve sealing: st. ball volume adjustment: manually			
Zeichnungsnummer / drawing number <b>D-VDO3-01-000</b>		Artikel / article <b>6090</b>		Datum letzte Sicherung / last save: 03-06-2019 / 10:53:34			
<small>C:\Vault-Arbeitsordner\Dosiertechnik\DT-Serienprodukte\Technische Dokumente\Dosierpumpen_und-ventile\VDO3-D-VDO3-01\ZB_VDO_StKugel_Stelknopf_T-Beschreibung_Engl.idw</small>							

a	Drehknopfretterierung geändert, Gesamtlänge war 182mm	06.03.2018	Kort
Nr.-No.	Änderung - Alteration	Datum - Date	Name
Revisions-tabelle - Revision History			