



Valves & Fittings for water & gas

Catalogue

Publication 2005

	Drinking water water, air	Waste water water, air	Gas to DVGW-BI. G 260/I	Other mediums	Chapter
Portrait					
General notes					1
Introduction to the company					2
Gate valves, Domestic mains gate valves	●	●	●	☐	3
Hydrants, Underground hydrants, Above ground hydrants	●				4
Valve fitting tapping saddles	●	●		☐	5
Non return valves	●	●		☐	6
Butterfly shut off valves	●			☐	7
Adjustable length pipe couplings	●	●			8
Accessories					9
Flanged pipe couplings	●	●			10

☐ on request

General notes

Valves for water & gas

Publication 2004

Products and prices

The catalogue is for information only and is not legally binding. It conveys details on our standard delivery program. Further valves and fittings, drive and control systems or accessories may be specially developed on request and can be provided according to a customers wishes on the basis of a contract agreement.

Please obtain the latest prices from our current price list which is available on our web site at www.vonroll-hydrotec.de.

Validity

This details mentioned in the documentation are listed as exactly as possible. A guarantee, however, for absolute correctness is not undertaken. Constructive modifications according to the technical development rights of our products are reserved.

Publishing rights

Illustrations and drawings, either direct or copied may however be used without our express consent.

Terms of payment and delivery

Our „General sale and delivery terms“ apply to all sales.

Inspection

Our valves and fittings are subjected to a 100 per cent final inspection according to DINs 3230
Customers will be supplied the following inspection certificates on request:

- Factory certificate
- Inspection test certificate

The costs for inspection certificates involves payment by the customer.

Introduction to the company



Business aims

Development, manufacture and distribution of valves and fittings for the municipality supply of water, gas and waste water treatment facilities .

Commercial trade registration No.

HRB 747 District court Neuruppin

Competence through experience and innovation

As long ago as 1925 the ironworks of the brothers Hoffmann in Prenzlau were developing, casting and finishing valves and fittings for the municipal water and gas supplies. This production continued until 1972 when the company underwent considerable expansion due to the newly built valves and fittings factory in Prenzlau "Armaturenwerkes Prenzlau" (AWP). The factory in Prenzlau developed to become the second largest valves and fittings manufacturer in eastern Germany. Through a continual training program for a skilled workforce, technicians and engineers, the company in Prenzlau has valves and fittings specialists who have created an unmistakable quality and ensure the further development of the products.

With the new formation of the present vonRoll hydrotec GmbH in 1992 as a producer for the Swiss **vonRoll infratec ag**, the company received a considerable thrust. The Know-how-transfer from the Swiss market leaders "vonRoll" and an encompassing investment plan over the recent years has created a modern company whose products deliver and meet all the requirements for a reliable and cost effective system.

Through technically competent customer service and advice, a complete provision for all products and support is guaranteed.

Introduction to the company

Management

Dipl.-Eng. **Klaus Winsel**
Managing director

Postal/ delivery address
17291 Prenzlau, Gewerbegebiet Ost, Str. B Nr. 2
Telephone +49 (0) 39 84 / 73 - 0
Fax +49 (0) 39 84 / 73 - 105
e-mail awp@vonroll-hydrotec.ch
Internet www.vonroll-hydrotec.de

Order processing

Dipl.-Eng. **Detlef Jehsert**
Senior signatory manager
Telephone +49 (0) 39 84 / 73 - 101
Fax +49 (0) 39 84 / 73 - 138

Dipl.-Eng. **Detlef Ziese**
Technical advice
Telephone +49 (0) 39 84 / 73 - 111
Fax +49 (0) 39 84 / 73 - 138

Eng. (FH) **Bernddieter Rosenfeld**
Technical advice
Telephone +49 (0) 39 84 / 73 - 112
Fax +49 (0) 39 84 / 73 - 138

Brigitte Beuster
Order processing
Telephone +49 (0) 39 84 / 73 - 106
Fax +49 (0) 39 84 / 73 - 138

Dipl.-Eng. **Rainer Retzlaff**
Customer service
Telephone +49 (0) 39 84 / 73 - 110
Fax +49 (0) 39 84 / 73 - 138
Funk 0172 / 3 22 98 61

Our colleagues in your area

Mecklenburg/Vorpommern

Dipl.-Eng. **Jürgen Holz**
Telephone 0161 / 2 34 84 86

Brandenburg/Sachsen

(Frankfurt/Oder, Cottbus)
Dr.-Eng. **Dieter Daum**
Mobile 0172 / 3 01 39 68

Brandenburg/Sachsen-Anhalt

(Potsdam, Magdeburg)
Dipl.-Eng. **Frank Mahncke**
Mobile 0171 / 4 11 58 13

Thüringen

Dipl.-Eng. (FH)
Reinhard Scholz
Mobile 0172 / 3 01 39 63

Sachsen

Dipl.-Eng. (FH)
Peter Redmann
Mobile 0171 / 4 11 48 41

Overseas sales

Dipl.-Eng.(FH)
Jörg Pagel
+49 3984 73 110

Hamburg/Bremen/ Niedersachsen

Dipl.-Eng. **Torsten Schubert**
Mobile 0172 / 3 29 31 11

Berlin

Elkom-Vertriebs GmbH
Frank Graichen
Telephone 030 / 9 16 61 83
Fax 030 / 91 74 36 04

Overseas sales support

Robert Bennett
Bennett Translations
Telephone +49 39746 26153
E-Mail robert@bentran.de

Introduction to the company

Production, fitting, inspection testing and service

VonRoll uses the most progressive production systems to achieve its unique standard of valves and fittings.

The ductile cast body parts are machined on modern CNC machining centres.



With an epoxy powder dip-coating (EWS) the cast parts have decades of corrosion protection.

Final assembly of the valves employs specially built assembly jigs and fixtures..



All valves and fittings receive 100% final inspection testing.

Our customer service is available for all situations and will assemble valves and drive units according to the costumers specified requirements.



Introduction to the company

The unmistakable quality of our products is checked and recorded by external testing institutes.



VonRoll hydrotec GmbH has a certified quality controlling system to DIN EN ISO 9000 - 2000

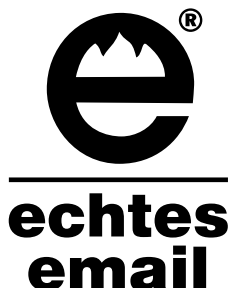


All relevant Valves and fittings comply to the DIN or EN standards, are certified and carry the DIN- DVGW test stamp.



VonRoll hydrotec GmbH is a member of the goods cooperation network "Greater corrosion protection" and coats valves and fittings with epoxy resin using a robotic powder dip system.

The coating complies with DIN 3476 and the DIN 30677 Part 2.

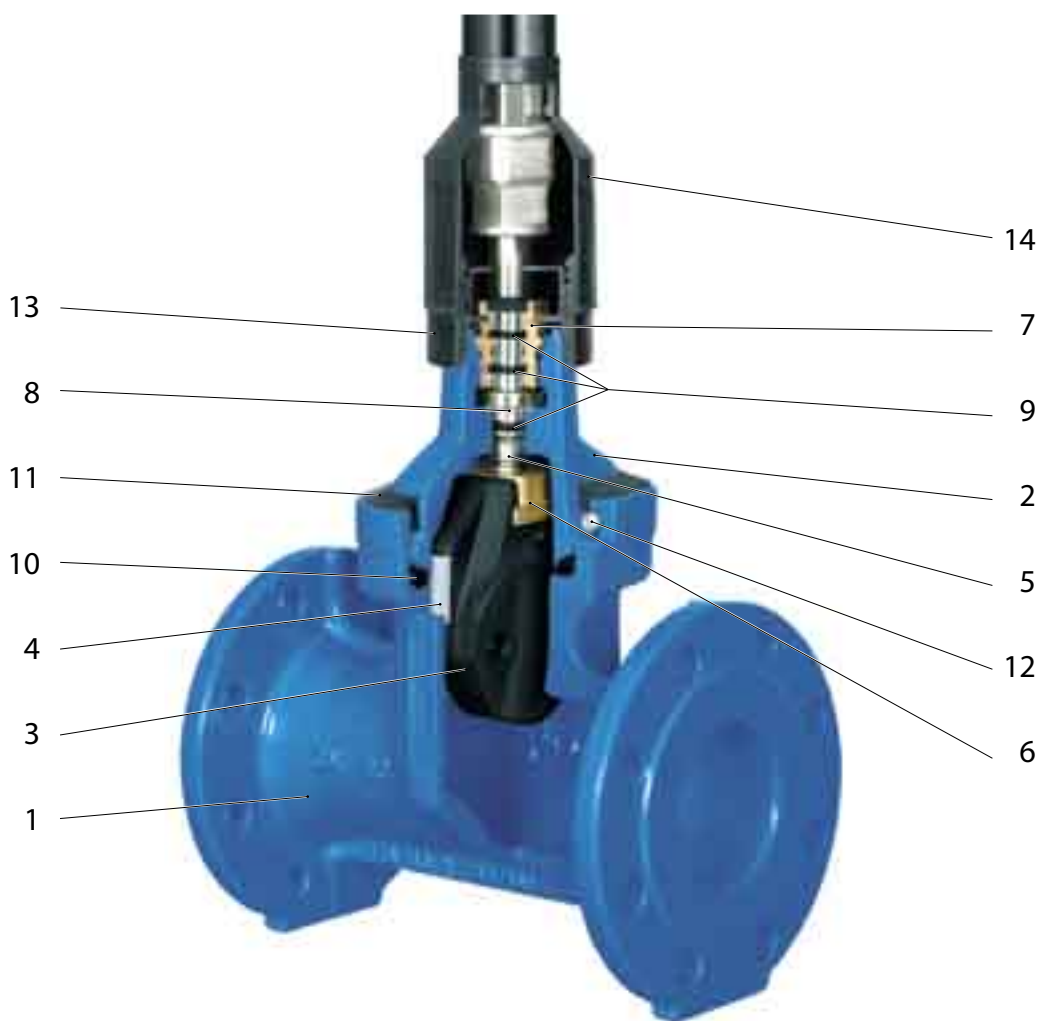


All enamelled valves comply with the specified requirements of DIN 3475 and the directives for the Association of German enamellers.



Gate valves

Soft seated gate valve for water and gas



Part	Description	Material	Notes
1	Housing	EN-GJS-500-7 (EN-JS1050)	Heavy duty anti-corrosive protection coating inside and out using Epoxy layers to GSK guidelines min. 250 µm
2	Top	EN-GJS-500-7 (EN-JS1050)	Heavy duty anti-corrosive protection coating inside and out using Epoxy layers to GSK guidelines min. 250 µm
3	Slide gate body	EN-GJS-500-7 (EN-JS1050)	Vulcanized EPDM/W270- or NBR-rubber jacket
4	Tapering guides	Hostaform	Exact form fit closing: vulcanized
5	Spindle	X20Cr13 (1.4021)	Alternative materials on request
6	Spindle nut	CUZn40Pb2 (2.0402)	Alternative materials on request
7	Sealing element	CUZn40Pb2 (2.0402)	With O-ring and lubrication groove Alternative materials on request
8	Stationary sealing element	POM	Alternative materials on request
9	O-Rings	NBR-DUO	Water free triple O-ring sealing
10	Bonnet seal	EPDM / NBR	
11	Sealing ring	NBR	
12	Holding dowel pins	1.4301	
13	Thread adapter dowels	PE	For the connection with a telescopic Installation set without location dowels
14	Telescopic Installation set		Tube sheathing bell with internal thread

Soft seated gate valve for water and gas

General notes

Slide gate valves are shut off valves with positions "Closed" or "completely open".

They are not to be used as throttle or regulation valves. The slide gates close with only minimal force.

They are turned to the right to close and to the left to open.

Opening and closing the slide gate with a forked hand wheel or pipe extension is not permitted.

Special features

- Heavy duty anti-corrosive protection coating inside and out using Epoxy-dip system (EWS) to GSK guidelines min 250 µm
- Maintenance free and no dead space, triple o-ring spindle seals
- KTW- Certification for all non-metallic parts
- Full rubberized and drained gate body with synthetic slide parts
- 2500 lift travel at differential pressure of 16 bar

Installation and operation

The gate valves may be installed in horizontal or vertical pipe work. In the horizontal position the spindle must always point upwards.

When installing the gate valve care must be taken that at the flange connection to the pipe work no undesirable tension occurs. To prevent premature wear the gate valve must always be completely opened or closed (no partial stages).

According to DVGW guidelines for pressures from 10 bar it is general principal to use seals with steel reinforcement.

Service

The gate valves generally require no service and may be buried in the earth. The spindle is protected against dirt from outside by an extra sealing ring. The lubrication of the spindle is with mineral base grease or oil is to be avoided!

The spindle seals may be replaced without any costly draining of the system (see user guide AE 2526)

Applications

The gate valves in the presented configuration are suitable for Drinking water and gas according to DVGW-BI. G 260/I.

All parts have an integral corrosion protection that guarantees decades of reliable use in the system.

Gate valves soft sealing for water and gas

Special designs for gate valves

- For waste water and other mediums follows a layout according the customers specifications
- Electric, pneumatic or hydraulic drive
- Corrosion protection with full isolation 15 kV breaking strength on request
- Viton – option on request
- For Transformer oil on request

Certification and registration

D	-	DVGW – Registration for Water – shut off valves
D	-	DVGW – Registration for gas – shut off valves
D	-	DVGW – Registration for Water – house mains connection <101>
D	-	DVGW – Registration for gas – house mains connection
PL	-	INGN Certified for Gas – shut off valves
PL	-	TIN – Certification for Water – shut off valves
CH	-	SVGW- Certification for gas and water – shut off valves
A	-	ÖVGW- Certification for Water – shut off valves
CZ	-	HLAVNI HYGIENIK Certification for Water – shut off valves
LT	-	Certification for gas and water – shut off valves

Inspection

Valves for water to DIN 3230, part 4, valves for gas to DIN 3230, part 5
Test certification to EN 10204 by customer request.

Technical data

Maximum operational temperature -5° C to +40° C, to 110° C on request
Resistance count z = 0.1 to 0.3 in both directions
Serial number to DIN EN 19

Maximum closing torque and spindle revolutions per stroke travel

DN	25	32	40	50	65	80	100	125	150	200	250	300
Spindle squared shaft end (mm)	12	12	14	14	17	17	19	19	19	24	27	27
max. Closing torque at 16 bar (Nm)	15	15	30	30	30	40	50	60	60	100	140	150
Revolutions (open - close)	9	9	10	13	16	16	20	25	30	40	50	60

Operational equipment

- Telescopic installation set for gate valves wit thread adapter
- Hand wheels coated black to DIN EN 3220

Recycling

Our valves and fittings are manufactured from recyclable materials.

Portrait	Gate valves Soft sealing for water & gas			Medium
	Domestic mains gate valve 2001SL		Page 03.4	
	With threaded coupler	PN 16	Figure 5003	Water
	With threaded coupler	PN 4	Figure 5004	Gas
	Domestic mains gate valve 2001SL		Page 03.4	
	With threaded coupler /HDPE- spigot	PN 16	Figure 5041	Water
	With threaded coupler /HDPE- spigot	PN 4	Figure 5043	Gas
	Domestic mains gate valve 2001SL		Page 03.5	
	With HDPE-spigot	PN 16	Figure 5040	Water
	With HDPE-spigot	PN 4	Figure 5042	Gas
	Domestic mains gate valve 2001SL		Page 03.5	
	With HDPE-spigot/welded steel spigot	PN 4	Figure 5044	Gas
	With welded steel spigot	PN 4	Figure 5045	Gas
	Gate valve with flange installation length FTF DIN EN 558-1			
	Series 14 (F4), DN 40 to 600		Page 03.6	
	Gate valve 5000	PN 10	Figure 5007	Water
	Gate valve 5000	PN 16	Figure 5107	Water
	Gate valve 5000	PN 10	Figure 5657	Gas
	Gate valve 5000	PN 16	Figure 5656	Gas
	Gate valve with flange installation length FTF DIN EN 558-1			
	Series 15 (F5), DN 40 to 200		Page 03.7	
	Gate valve AWP 2001 SL	PN 10	Figure 5211	Water
	Gate valve AWP 2001 SL	PN 16	Figure 5311	Water
	Gate valve AWP 2001 SL/enamelled	PN 10	Figure 5214	Water
	Gate valve AWP 2001 SL/enamelled	PN 16	Figure 5314	Water
	Gate valve AWP 2001 SL	PN 10	Figure 5212	Gas
	Gate valve AWP 2001 SL	PN 16	Figure 5312	Gas
	Gate valve with flange installation length FTF DIN EN 558-1			
	Series 15 (F5), DN 250 to 600		Page 03.7	
	Gate valve 5000	PN 10	Figure 5008	Water
	Gate valve 5000	PN 16	Figure 5108	Water
	Gate valve 5000/enamelled (DN 250, 300)	PN 10	Figure 5510	Water
	Gate valve 5000/enamelled (DN 250, 300)	PN 16	Figure 5710	Water
	Gate valve 5000	PN 10	Figure 5655	Gas
	Gate valve 5000	PN 16	Figure 5454	Gas
	Gate valve with HDPE-spigot		Page 03.8	
	Gate valve 5000	PN 16	Figure 5460	Water
	Gate valve 5000	PN 4/10	Figure 5461	Gas
	Gate valve with HDPE-spigot/flange		Page 03.8	
	Gate valve 5000	PN 10/16	Figure 5462/63	Water
	Gate valve 5000	PN 4/10	Figure 5464	Gas

Portrait	Gate valves soft sealing for water & gas		Medium	
	Gate valve with connecting sleeve for cast iron pipes		Page 03.9	
	Gate valve AWP 2001 SL	PN 16	Figure 5017	Water
	Gate valve with connecting sleeve /insert end for cast iron pipes		Page 03.9	
	Gate valve AWP 2001 SL	PN 16	Figure 5019	Water
	Gate valve with tension securing flanges		Page 03.10	
	Gate valve AWP 2001 SL	PN 10	Figure 5228	Water
	Gate valve with flange Installation length FTF DIN EN 558-1		Page 03.11	
	Series 14 (F4), DN 40 to 500			
	Designed for assembly with electric motor drive			
	Connecting geometry ISO 5210			
	Gate valve 5000	PN 10	Figure 5007A	Water
	Gate valve 5000	PN 16	Figure 5107A	Water
	Gate valve 5000	PN 10	Figure 5657A	Gas
	Gate valve 5000	PN 16	Figure 5656A	Gas
	Gate valve with flange Installation length FTF DIN EN 558-1		Page 03.12	
	Series 15 (F5), DN 40 to 200			
	Designed for assembly with electric motor drive			
	Connecting geometry ISO 5210			
	Gate valve AWP 2001 SL	PN 10	Figure 5211A	Water
	Gate valve AWP 2001 SL	PN 16	Figure 5311A	Water
	Gate valve AWP 2001 SL	PN 10	Figure 5212A	Gas
	Gate valve AWP 2001 SL	PN 16	Figure 5312A	Gas
	Gate valve with flange Installation length FTF DIN EN 558-1		Page 03.12	
	Series 15 (F5), DN 250 to 500			
	Designed for assembly with electric motor drive			
	Connecting geometry ISO 5210			
	Gate valve 5000	PN 10	Figure 5008A	Water
	Gate valve 5000	PN 16	Figure 5108A	Water
	Gate valve 5000	PN 10	Figure 5655A	Gas
	Gate valve 5000	PN 16	Figure 5454A	Gas
	Gate valve with flange Installation length FTF DIN EN 558-1		Page 03.13	
	Series 14 (F4), DN 40 to 300			
	With electric motor drive for very high operation regularity,			
	Connecting geometry ISO 5210			
	Gate valve 5000	PN 10	Figure 5007AA	Water
	Gate valve 5000	PN 16	Figure 5107AA	Water

Portrait	Gate valves soft sealing for water & gas			Medium
	Gate valve with flange installation length FTF DIN EN558-1			
	Series 14 (F4), DN 40 to 500 with bevel gear drive			Page 03.14
	Gate valve 5000	PN 10	Figure 5007AB	Water
	Gate valve 5000	PN 16	Figure 5107AB	Water
	Gate valve 5000	PN 10	Figure 5657AB	Gas
	Gate valve 5000	PN 16	Figure 5656AB	Gas

Domestic Installation gate valve 2001 SL soft sealing

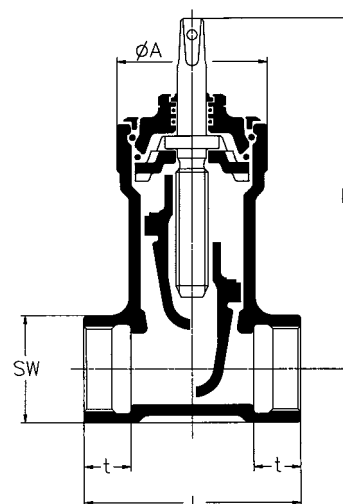


Figure	Medium	Design
Figure 5003	Drinking water Water and oil free air	Thick EPOXY layers Installation length M3 to DIN 3202 Part 4 Threaded couplings to DIN 50228
Figure 5004	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers Installation length M3 to DIN 3202 Part 4 Threaded couplings to DIN 2999
Figure 5041	Drinking water Water and oil free air	Thick EPOXY layers Threaded coupling / HDPE-insert end
Figure 5043	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers Threaded coupling / HDPE-insert end

Technical dimensions

PN 16 (Water), PN 4 (Gas), EN-GJS-500-7

Nominal width	Thread connection	Installation length	Installation height	Key width	Connector depth	Top	Spindle revolutions	Operating pressure		Weight
DN	R	L mm	H mm	SW mm	t mm	Ø A mm	per stroke travel	Water	Gas	kg
20	¾"	110	190	55	26	90	8	16	4	3.5
25	1"	110	190	55	26	90	8	16	4	3.5
32	1¼"	110	190	55	26	90	8	16	4	3.5
40	1½"	120	195	60	26	90	9	16	4	4.0
50	2"	140	205	75	31	90	12	16	4	5.0

Domestic Installation gate valve 2001 SL soft sealing

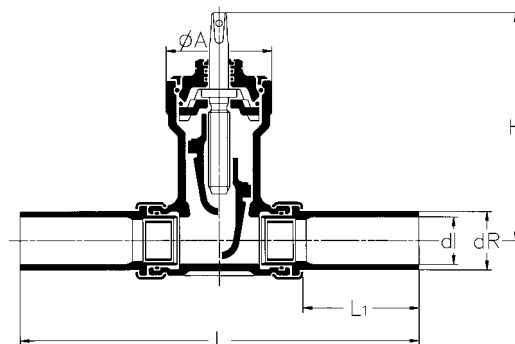


Figure	Medium	Design
Figure 5040	Drinking water sewage and oil free air	Thick EPOXY layers With HDPE-insert ends PE 100, black
Figure 5042	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers With HDPE-insert ends PE 100, black
Figure 5044	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers With HDPE-insert ends / steel ends
Figure 5045	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers With steel ends

Technical dimensions

PN 16 (Water), PN 4 (Gas), EN-GJS-500-7

Nominal width	Pipe OD	Pipe ID	Installation length	Installation length	Installation height	Top	Spindle revolutions	Operating pressure		Weight
DN	dR mm	dI mm	L mm	L ₁ mm	H mm	Ø A mm	per stroke travel	Water	Gas	kg
25	32	26.0	305	90	190	90	8	16	4	4.5
32	40	32.6	305	90	190	90	8	16	4	4.5
40	50	40.8	340	100.5	195	90	9	16	4	5.0
50	63	51.4	375	105	205	90	12	16	4	6.0

Gate valve 5000 soft seal with flanges

DIN 3352-4A

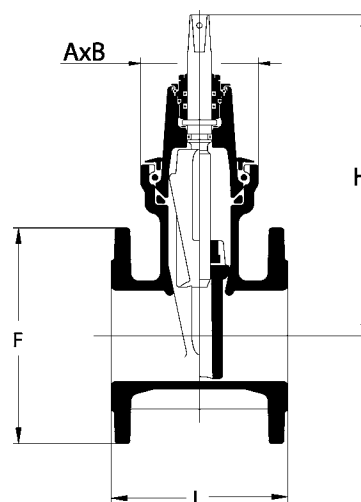


Figure	Medium	Design
Figure 5007 Figure 5107	Drinking water Water and oil free air	Thick EPOXY layers Installation length DIN EN 558- 1, Series 14 (F4) Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501
Figure 5657 Figure 5656	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers Installation length DIN EN 558- 1, Series 14 (F4) Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501

Technical dimensions

PN 10/16, EN-GJS-500-7

Nominal width	Installation length	Flange	Installation height	Top ØA bzw.	Hand wheel* Diameter/	Spindle revolutions	Operating pressure	Weight
DN	L mm	F mm	H mm	A x B mm	Sp.Sq mm/mm	per stroke travel	bar	kg
40	140	150	205	90	200/14.4	10	16	8.0
50	150	165	215	90	200/14.4	13	16	9.0
65	170	185	285	122 x 144	250/17.4	16	16	14.0
80	180	200	300	135 x 164	250/17.4	16	16	18.0
100	190	220	325	146 x 186	315/19.4	20	16	23.0
125	200	250	370	160 x 225	315/19.4	25	16	28.0
150	210	285	405	180 x 275	315/19.4	30	16	36.0
200	230	340	530	194 x 330	400/24.4	40	10/16	63.0
250	250	400	625	235 x 412	400/27.4	50	10/16	99.0
300	270	455	700	260 x 480	500/27.4	60	10/16	135.0
350	290	580	980	240 x 580	500/27.4	51	10/16	210.0
400	310	640	1120	240 x 580	630/32.4	51	10/16	290.0
500	350	715	1305	250 x 700	630/32.4	64	10/16	444.0
600	390	840	1345	260 x 850	800/36.4	68	10/16	708.0

* Figure 8316 hand wheel diameter for installation length note (page 09.3)

Gate valve AWP 2001 SL / 5000 soft seal with flanges

DIN 3352-4B

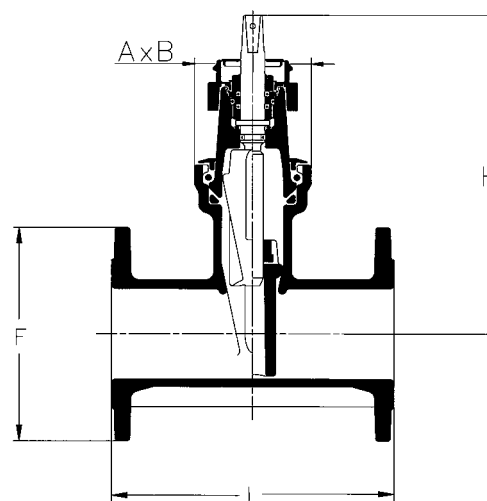


Figure	Medium	Design
Figure 5211, Figure 5008* Figure 5311, Figure 5108*	Drinking water Water and oil free air	Thick EPOXY layers Installation length DIN EN 558- 1, Series 15 (F5) Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501
Figure 5214, Figure 5510* Figure 5314, Figure 5710*	Drinking water Water and oil free air	Inside enamel, outside EPOXY coating*** Installation length DIN EN 558- 1, Series 15 (F5) Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501
Figure 5212, Figure 5655* Figure 5312, Figure 5654*	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers Installation length DIN EN 558- 1, Series 15 (F5) Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501

Technical dimensions

PN 10/16, EN-GJS-500-7

Nominal width	Installation length	Flange	Installation height	Top ØA or	Hand wheel** Diameter/	Spindle revolutions	Operating pressure	Weight
DN	L mm	F mm	H mm	A x B mm	Sp.Sq mm/mm	per stroke travel	bar	kg
40	240	150	205	90	200/14.4	10	16	8.5
50	250	165	215	90	200/14.4	13	16	9.5
65	270	185	285	112 x 147	250/17.4	16	16	15.0
80	280	200	300	118 x 169	250/17.4	16	16	19.0
100	300	220	325	120 x 186	315/19.4	20	16	23.5
125	325	250	370	131 x 218	315/19.4	25	16	30.5
150	350	285	405	155 x 263	315/19.4	30	16	38.5
200	400	340	530	180 x 328	400/24.4	40	10/16	66.5
250*	450	400	625	235 x 412	400/27.4	50	10/16	112.0
300*	500	455	700	260 x 480	500/27.4	60	10/16	157.0
350*+	550	520	980	260 x 480	500/27.4	51	10/16	204.0
400*	600	580	1120	240 x 580	630/32.4	51	10/16	320.0
500*	700	640	1305	250 x 700	630/32.4	64	10/16	530.0
600*	800	715	1345	260 x 850	800/36.4	68	10/16	780.0

* Figure- NO. for DN 250 to 600 ** Figure 8316 *** Complete enamelled on request + reduced conduit

Gate valve AWP 2001 SL soft seal with HDPE-insert ends

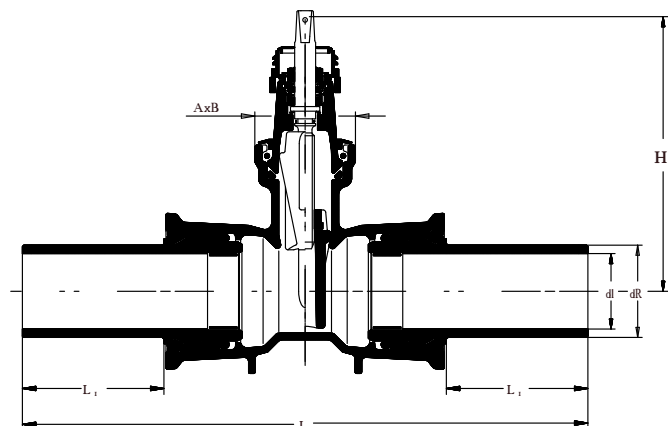


Figure	Medium	Design
Figure 5460	Drinking water Water and oil free air	Thick EPOXY layers With HDPE-insert ends PE 100, black
Figure 5461	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers With HDPE-insert ends PE 100, black
Figure 5462/63	Drinking water Water and oil free air	Thick EPOXY layers With HDPE-insert end / Flange
Figure 5464	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers With HDPE-insert end / Flange

Technical dimensions

PN 16 (Water), PN 4 (Gas), EN-GJS-500-7

Nominal width	Pipe OD	Pipe ID	Installation length	Installation length	Installation height	Top A x B mm	Spindle revolutions per stroke travel	Operating pressure Water Gas	Weight
DN	dR mm	dI mm	L mm	L ₁ mm	H mm			bar	kg
80	90	73.6	753	210	300	118 x 169	16	16 4/10	19.5
100	110	90.0	798	230	330	120 x 186	20	16 4/10	24.0
100	125	102.2	818	240	330	120 x 186	20	16 4/10	25.5
125	140	114.4	872	260	370	161 x 218	25	16 4/10	33.5
125	160	130.8	986	280	370	161 x 218	25	16 4/10	36.0
150	160	130.8	931	280	408	155 x 263	30	16 4/10	46.0
150	180	147.2	951	290	408	155 x 263	30	16 4/10	46.5
150	200	163.6	1122	320	405	155 x 263	30	16 4/10	50.0
200	225	184.0	1059	320	530	180 x 328	40	16 4/10	81.0

Gate valve AWP 2001 SL soft seated for cast iron pipes

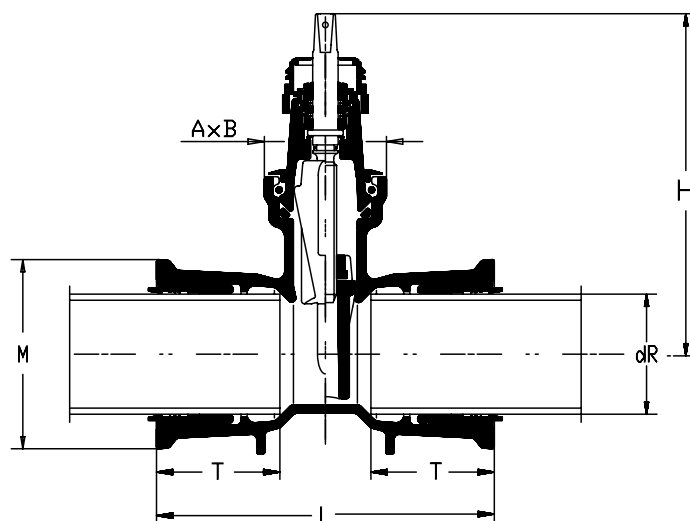


Figure	Medium	Design
Figure 5050	Drinking water Water and oil free air	Thick EPOXY layers With connecting sleeve for cast iron pipes*
Figure 5054	Drinking water Water and oil free air	Thick EPOXY layers With connecting sleeve / insert end for cast iron pipes*

Technical dimensions

PN 16, EN-GJS-500-7

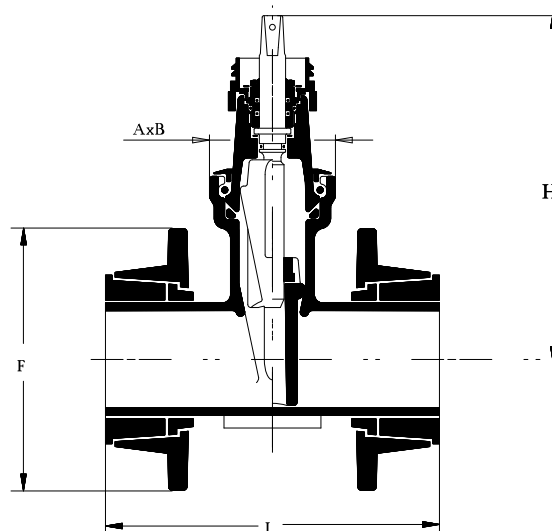
Nominal width DN	Installation length		Pipe OD dR mm	Connector depth T mm	Installation height H mm	Top A x B mm	Weight kg
	L mm	M mm					
80	328	166	98	119	300	118 x 169	19.7
100	332	187	118	123	330	120 x 186	23.7
125	346	214	144	126	370	161 x 218	29.9
150	366	241	170	129	408	155 x 263	40.2
200	390	294	222	138	530	180 x 328	66.7

* Design with Tyton- seal ,
also available with internal shear prevention to coupling sleeve connection with double chamber
or external shear prevention to coupling sleeve connection, shear prevention locking ring is Epoxy coated

(Fig. 2807)

(Fig. 2806)

Exchange gate valve AWP 2001 SL soft seated with tension securing flanges



Figure

Medium

Drinking water
Water and oil free air

Design

Thick EPOXY layers
With tension securing flanges from EN-GJS-500-7
NBR-Rubber seals
Bronze retaining ring DIN 1705

Figure 5228

Flange PN 10 to DIN 2501

Figure 5229

Flange PN 16 to DIN 2501

- Advantages:
- Tension free exchange of gate valves. Installation length DIN EN 558-1, Series 15 (F5)
 - NBR integrated rubber flange seals: no additional flange seals required
 - Rotating flange

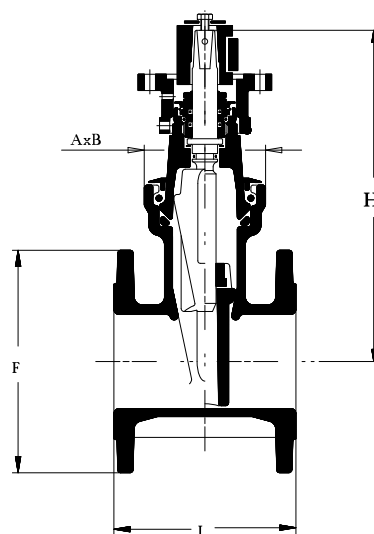
Technical dimensions

PN 10/16, EN-GJS-500-7

Nominal width	Installation length	Flange	Installation height	Top	Weight
DN	L mm	F mm	H mm	A x B mm	kg
80	280	200	300	118 x 169	19.0
100	300	220	325	120 x 186	23.5
125	325	250	370	131 x 218	30.5
150	350	285	405	155 x 263	38.5
200	400	340	530	180 x 328	66.5

Gate valve 5000 soft seal with flange

DIN 3352-4A



Figure

Medium

Design

Drinking water
Water and oil free air

Thick EPOXY layers
Installation length DIN EN 558- 1, Series 14 (F4)
Prepared for drive unit
Flange PN 10 to DIN 2501
Flange PN 16 to DIN 2501

Figure 5007A

Figure 5107A

Gasses to DVGW
Worksheet G260/1

Thick EPOXY layers
Installation length DIN EN 558- 1, Series 14 (F4)
Prepared for drive unit
Flange PN 10 to DIN 2501
Flange PN 16 to DIN 2501

Figure 5657A

Figure 5656A

Technical dimensions

PN 10/16, EN-GJS-500-7

Nominal width	Installation length	Flange	Installation height	Top ØA bzw.	Spindle revolutions	Operating pressure	Drive unit flange	Drive unit	Weight
DN	L mm	F mm	H mm	A x B mm	per stroke travel	bar	ISO 5210		kg
40	140	150	210	90	10	16	F07	SA07.1	8.0
50	150	165	220	90	13	16	F07	SA07.1	9.0
65	170	185	290	122 x 144	16	16	F07	SA07.5	14.0
80	180	200	305	135 x 164	16	16	F10	SA10.1	18.0
100	190	220	345	146 x 186	20	16	F10	SA10.1	23.0
125	200	250	390	160 x 225	25	16	F10	SA10.1	28.0
150	210	285	425	180 x 275	30	16	F10	SA10.1	36.0
200	230	340	535	194 x 330	40	10/16	F14	SA14.1	63.0
250	250	400	630	235 x 412	50	10/16	F14	SA14.1	99.0
300	270	455	710	260 x 480	60	10/16	F14	SA14.1	135.0
350	290	580	990	240 x 580	51	10/16	F14	SA14.1	210.0
400	310	640	1130	240 x 580	51	10/16	F14	SA14.5	290.0
500	350	715	1315	250 x 700	64	10/16	F14	SA14.5	444.0

Gate valve AWP 2001 SL / 5000 soft seal with flange

DIN 3352-4B

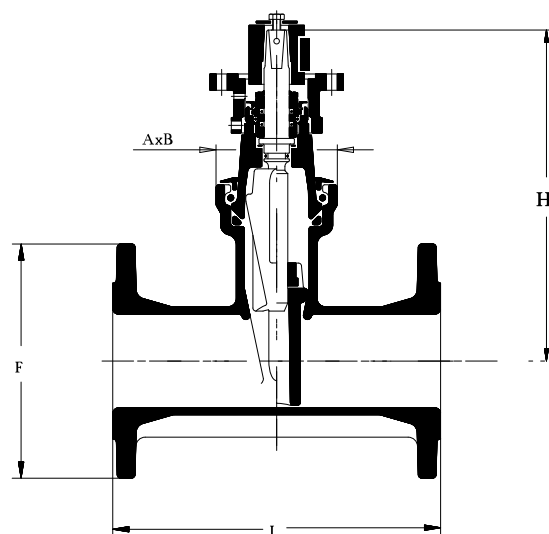


Figure	Medium	Design
Figure 5211A, Figure 5008A* Figure 5311A, Figure 5108A*	Drinking water Water and oil free air	Thick EPOXY layers Installation length DIN EN 558- 1, Series 15 (F5) Prepared for drive unit Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501
Figure 5214A, Figure 5510A* Figure 5314A, Figure 5710A*	Drinking water Water and oil free air	Inside enamel, outside EPOXY coated** Installation length DIN EN 558- 1, Series 15 (F5) Prepared for drive unit Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501
Figure 5212A, Figure 5655A* Figure 5312A, Figure 5454A*	Gasses to DVGW Worksheet G260/1	Thick EPOXY layers Installation length DIN EN 558- 1, Series 15 (F5) Prepared for drive unit Flange PN 10 to DIN 2501 Flange PN 16 to DIN 2501

Technical dimensions

PN 10/16, EN-GJS-500-7

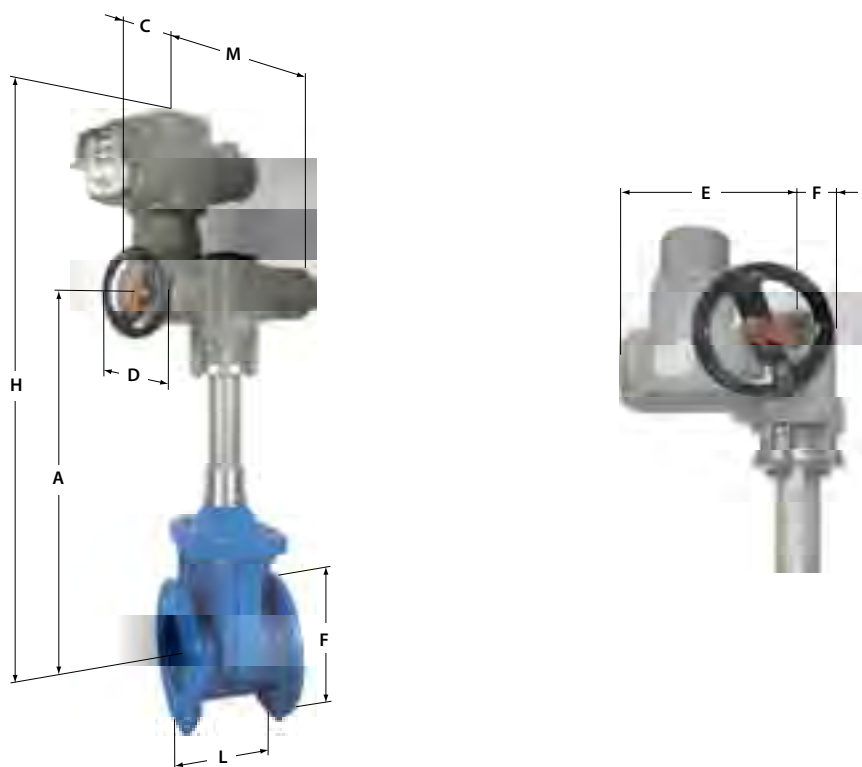
Nominal width	Installation length	Flange	Installation height	Top ØA bzw.	Spindle revolutions	Operating pressure	Drive unit flange	Drive unit	Weight
DN	L mm	F mm	H mm	A x B mm	per stroke travel	bar	ISO 5210		kg
40	240	150	210	90	10	16	F07	SA07.1	8.5
50	250	165	220	90	13	16	F07	SA07.1	9.5
65	270	185	290	112 x 147	16	16	F07	SA07.5	15.0
80	280	200	305	118 x 169	16	16	F10	SA10.1	19.0
100	300	220	345	120 x 186	20	16	F10	SA10.1	23.5
125	325	250	390	131 x 218	25	16	F10	SA10.1	30.5
150	350	285	425	155 x 263	30	16	F10	SA10.1	38.5
200	400	340	535	180 x 328	40	10/16	F14	SA14.1	66.5
250*	450	400	630	235 x 412	50	10/16	F14	SA14.1	112.0
300*	500	455	710	260 x 480	60	10/16	F14	SA14.1	157.0
350*+	550	520	990	260 x 480	51	10/16	F14	SA14.1	204.0
400*	600	580	1130	240 x 580	51	10/16	F14	SA14.5	320.0
500*	700	640	1315	250 x 700	64	10/16	F14	SA14.5	530.0

* Figure NO. for DN 250 to 500

** complete enamelled on request

+ reduced conduit

Gate valve 5000 with flanges and vertical spindle



Figure

Medium

Design

Drinking water
Water and oil free air

Thick EPOXY coating
Installation length DIN EN 558- 1, series 14 (F4)
Prepared for drive unit
with external spindle thread
Flange PN10 to DIN 2501
Flange PN16 to DIN 2501

Figure 5007AA

Figure 5107AA

Special features

- Extremely high rate of operation
- Electrical supply - 3x400 V/ 50 Hz standard version
- Protection type IP 67 to DIN 40050 / EC 529
- Connection type drive to ISO 5210
- Closing to predetermined torque value, opening to predetermined distance
- Hand wheel remains disengaged during motor operation
- Corrosion protection of the drive unit with 2 part EPOXY coating
- Circuit diagram ASY111.1121/MMSTP100

Special purpose designs

- For three phase version, integrated switch gear or control centre for operation of drive unit
- Explosion protection to EE x ed II c T 4
- Protection type IP 68 (to 72 H. floodable)
- DUO switch with 4 separately adjustable trip cams
- Continual position report through precision potentiometer, inductive displacement sensor system or electronic position sensor (4 – 20 mA outlet)
- Supply: Electrical supply: Three phase, AC and DC
- Moisture free heated in switch gear housing
- Corrosion protection K2 for use in the open or aggressive environment
- Tandem switch for switching of various potentials

Installation and operation

- Normal, as in dimensional drawing
- Other installation types or columns on request
- Operation electro-mechanical or with hand wheel

Gate valve 5000 with flanges and vertical spindle

Technical dimensions

PN 10/16, EN-GJS-500-7

Nominal width	Installation length	Installation height	Installation height	Flange	Hand wheel diameter	Revolutions per stroke travel	Operating pressure	Weight
DN	L mm	H ^{*/**} mm	A mm	F mm	D mm		bar	kg
40	140	618	448	150	160	13	10/16	31.0
50	150	628	458	165	160	17	10/16	32.0
65	170	658	488	185	160	22	10/16	35.0
80	180	678	508	200	160	27	10/16	43.5
100	190	708	538	220	160	33	10/16	48.0
125	200	743	573	250	160	42	10/16	54.5
150	210	793	623	285	160	50	10/16	62.5
200	230	985	805	340	200	67	10/16	117.5
250	250	1080	900	400	200	83	10/16	154.0
300	270	1150	970	455	200	100	10/16	190.0

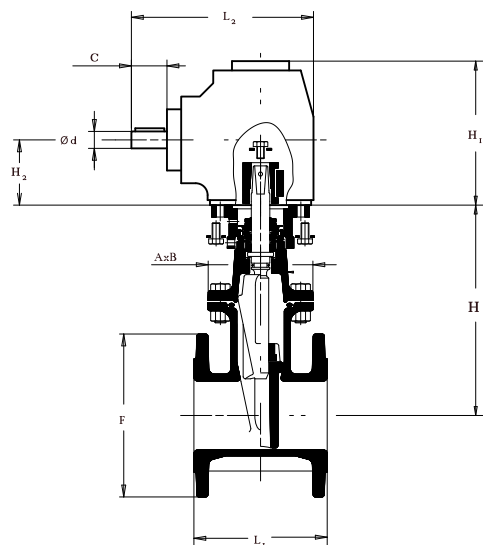
Nominal width	Reach Electrical drive unit				Drive unit flange	Operation time ***	Actuating torque		Motor power	Drive unit	Rated current
DN	M mm	C mm	E* mm	F mm	ISO 5210	Sec.	PN 10 Nm	PN16 Nm	kW	rpm/min.	A max.
40	265	250	237	50	F 07	35	25	32	0.18	22	0.7
50	265	250	237	50	F 07	46	25	32	0.18	22	0.7
65	265	250	237	50	F 07	60	40	50	0.18	22	0.7
80	265	250	237	50	F 10	50	50	80	0.75	32	2.5
100	265	250	237	50	F 10	61	50	80	0.75	32	2.5
125	265	250	237	50	F 10	78	70	110	0.75	32	2.5
150	265	250	237	50	F 10	94	80	120	0.75	32	2.5
200	282	256	247	65	F 10	89	150	190	0.75	45	2.5
250	282	256	247	65	F 10	110	180	220	0.75	45	2.5
300	282	256	247	65	F 10	133	210	250	0.75	45	2.5

* Attention to the required space for removal

** For under ground installations other heights are available on request

*** Alternative actuating times on request

Gate valve 5000 soft seals with flanges and bevel gear drive



Figure

Medium

Design

Drinking water
Water and oil free air

Thick EPOXY layers
Installation length DIN EN 558- 1, Series 14 (F4)
Flange PN 10 to DIN 2501
Flange PN 16 to DIN 2501

Figure 5007AB

Figure 5107AB

Gasses to DVGW
Worksheet G260/1

Thick EPOXY layers
Installation length DIN EN 558- 1, Series 14 (F4)
Flange PN 10 to DIN 2501
Flange PN 16 to DIN 2501

Figure 5657AB

Figure 5656AB

- Single stage bevel gear drive for operating gate valves; ratio 2:1
- Designed for short operations S 2 – 15 min's.
- Operation is optional with either:
 - Hand operation or with hand wheel or drive linkage
 - Motor drive (electric rotation)

Technical dimensions

PN 10/16, EN-GJS-500-7

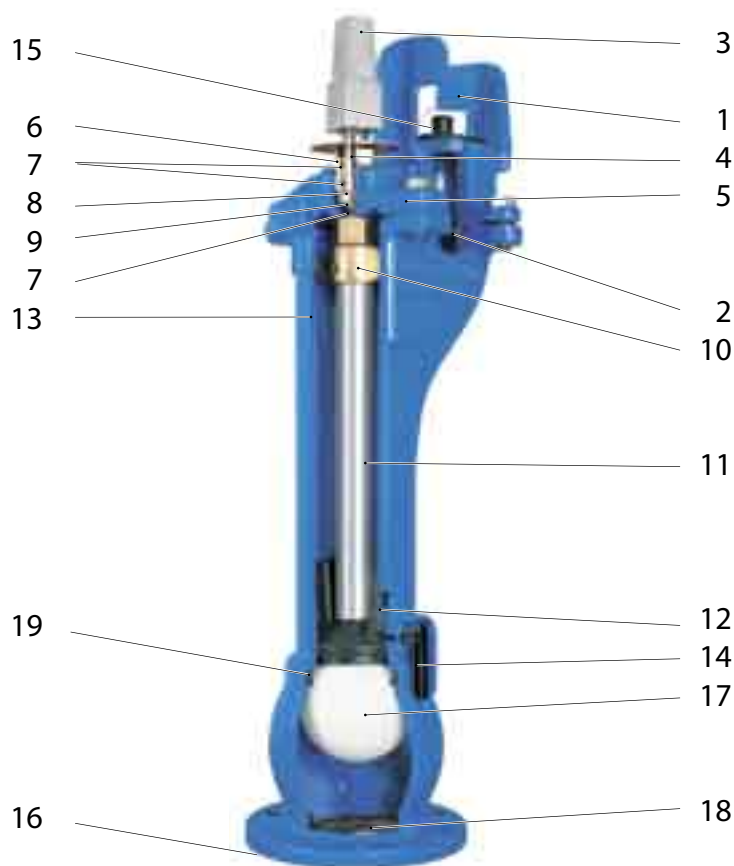
Nominal width	Installation length	Flange	Installation height	Top ØA and/or A x B	Operating pressure	Beval gear drive	Weight						
DN	L mm	F mm	H mm	mm	bar		H1 mm	H2 mm	L mm	B mm	C mm	ød mm	kg
40	140	150	210	90	16	GK 10.2	170	77	215	130	42	20	16.5
50	150	165	220	90	16	GK 10.2	170	77	215	130	42	20	17.5
65	170	170	260	122 x 144	16	GK 10.2	170	77	215	130	42	20	22.5
80	180	200	280	135 x 164	16	GK 10.2	170	77	215	130	42	20	26.5
100	190	220	305	146 x 186	16	GK 10.2	170	77	215	130	42	20	31.5
125	200	250	340	160 x 225	16	GK 10.2	170	77	215	130	42	20	36.5
150	210	285	390	180 x 275	16	GK 10.2	170	77	215	130	42	20	44.5
200	230	340	505	194 x 330	10/16	GK 10.2	170	77	215	130	42	20	71.5
250	250	400	600	235 x 412	10/16	GK 10.2	170	77	215	130	42	20	107.5
300	270	455	670	260 x 480	10/16	GK 10.2	170	77	215	130	42	20	143.5
350	290	580	990	240 x 580	10/16	GK 10.2	170	77	215	130	42	20	218.5
400	310	640	1130	240 x 580	10/16	GK 10.2	170	77	215	130	42	20	298.5
500	350	715	1315	240 x 700	10/16	GK 10.2	170	77	215	130	42	20	452.5

enamelled on request



Hydrants

Under ground hydrants 5000



Part	Name	Material	Notes
1	Yoke, complete	EN-GJS-500-7 (EN-JS1050)	Heavy duty anti-corrosive protection coating inside and out using Epoxy layers to GSK guidelines min 250 µm
2	Dirt trap	EPDM	KTW tested
3	Square head protector	GT 3510	Galvanized
4	Spindle	X20Cr13	Rolled thread
5	Sealed bonnet	EN-GJS-500-7 (EN-JS1050)	See Part 1
6	Sealing element	CuZn40 Pb2	
7	O - Ring	EPDM	Triple O-Ring sealing
8	Stationary seal face	POM	
9	Stationary seal face	CuZn37	
10	Spindle nut	CuZn40 Pb2	Inner set complete
11	Plunger	X5CrNi18.9	
12	Valve cone	EN-GJS-400-15 (EN-JS1030)	With vulcanized EPDM/W270
13	Housing	EN-GJS-500-7 (EN-JS1050)	See Part 1
14	Drain protection	MRS 80	
15	Protection cap	EPDM	
16	Vulcanized steel gasket	DIN 2960 NBR	Rubber vulcanized steel gasket
17	Ball cock	POM	
18	Retaining ring	MRS 80	
19	Grooved synthetic ball cock	Plastic	Sealing ring

Hydrants- Installation and operation

Under ground hydrants 5000

General

The hydrant types A and AD may be installed in a shaft or directly in the earth.

The operation is by key C-DIN 3223. The hydrants are completely protected from corrosion and are maintenance-free.

Maintenance-free dose not release those responsible from the execution of functional checks every second year according to DVGW- directives W331, Section. 6.

Installation

Remove protection caps. Before installation, the hydrant and associated parts are to be inspected for a perfect hygienic condition (if necessary cleaned and disinfected).

The sealing of the pipeline flange is made with the rubber coated steel gasket included in the delivery

DN 80, PN 16 to DIN 2690 without additional seals. When installing, pay special attention that there are no stones etc in the connection pipe line caused by the building/digging work.

The flange bolts are to be evenly (opposed) tightened with 80 Nm.

Mechanical assembly stresses are to be avoided. After the assembly, the hydrants must be flushed and a pressure and function check carried out.

Covering the hydrant

Covering the hydrant (when not a shaft assembly) should only be done after the pressure and function checks have been completed.

It is important to note that when near to drainage areas, a permeable sand/gravel bed should be prepared, the fill brought in layers and compacted.

It is also necessary to follow the installation directives according to DVGW - Worksheet W331, Part. 5

Commissioning

First clear yoke and protection cap from dirt and then lift protection cap. Insert the standpipe with the yoke nut screwed down into the yoke and turn to the right until firmly seated.

Open completely the release valve and/or valve in the standpipe so that when opening the Hydrant the air can escape.

Turn the key of the hydrant shut-off slowly to the left until the stop is clearly felt 'fully open', the hydrant and standpipe are flushed and cleaned with the out flowing water. Close the release valve and where applicable connect hoses. Open release valve on standpipe and in this way regulate the rate of flow.

Attention!!!

If these directions are not followed in the right order there is a danger of polluting the Drinking water.

Shutting-off

Close release valve and where applicable disconnect hoses (after releasing pressure). By turning the key smoothly to the right, close the hydrant completely until the stop is clearly felt. Monitor draining of the outer tube. Release the yoke from the standpipe by turning to the left. Replace the protection cap.

Inspections intervals

Follow the inspections intervals of approximately two years according to DVGW worksheet W331 Part 6.

This interval may be adapted to the individual users operating experience and according to the condition either shortened or extended.

Visual inspection and functional check

Smooth movement of the valve cone.

No damage to the yoke for the connection of the standpipe.

Draining of the outer tube: Complete drainage of the outer tube should take approximately 3 minuets. If the drainage is not complete within an appropriate period it is likely that the drain hole is blocked. The following measures are necessary for correction.

a) Pressurise the outer tube using a hand pump to max 18 bar.

b) Expose (remove) the hydrant if a) proves unsuccessful.

Hydrants- Installation and operation

Above ground hydrants

General

Above ground hydrants are recognised for their fast operation and easy recognition. They are found in a variety of situations and wherever space allows.

Above ground hydrants from vonRoll offer the maximum performance through reliability and functional safety under all climatic conditions, quick operation and minimum pressure loss.

Even when the upper part of a hydrant is broken off by collision, the valve remains closed.

Repairs to the pipeline and hydrant can be carried out without shutting off the supply or excavating the column pipe.

The exit pipes are uniformly offset by 129° and lead to angled down pipe connections.

The construction allows the hoses to be easily connected without kinking. There are fixed connections according to DIN or made to order. The spindle of the vonRoll hydrant 5000 is supported in a brass bush and sealed with an O- ring.

The hydrants can be delivered according to requirements with a vertical flanged inlet or a 90° flanged elbow. Abutting the inlet tube base plate is a holding plate for support against horizontal forces.

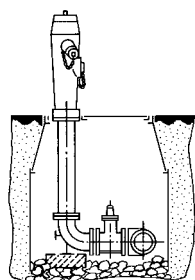
The loss of pressure is minimised through the refined developments to optimise hydrodynamic flow.

This advantage is of particular value when low initial pressure is a problem.

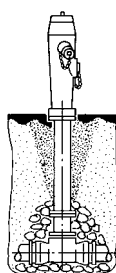
In both the vertical and 90° inlets is an automatic drain system that opens when the hydrant is closed and facilitates a complete drainage of the hydrant when not in use. To attach a closed pipe for carrying off the drained water there is a special connecting piece available.

Installation examples

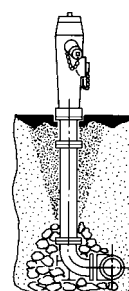
Inlet 90° with flanges



Inlet vertical with flanges



With upper extension

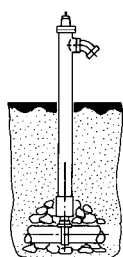


Industrial hydrants

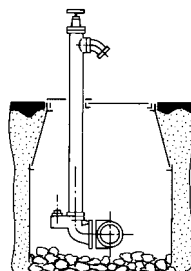
For water hydrants used on industrial areas we recommend industrial above ground hydrants DN 150 with an output of 5600 l/ minute. For low output requirements (reduced water usage such as waste facilities or irrigation) an industrial above or under ground hydrant may be used.

Installation examples

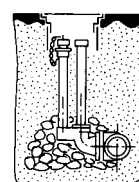
Under ground with vertical inlet



Inlet 90° with flanges



Under ground inlet 90° with flanges



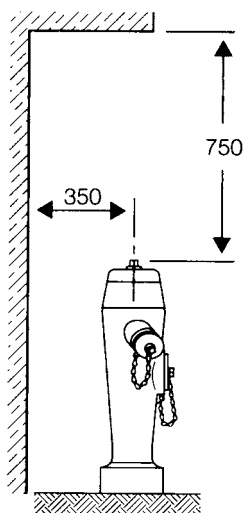
Hydrants - Installation and operation

Above ground and industrial hydrants

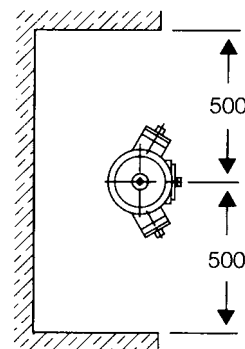
Installation and operation

Thanks to the 120° arrangement of the outlets the hydrant maybe universally positioned even in a wall recess.

Required free space: see sketches



Minimum free space
for hydrant operation



Minimum distance
to connect the hoses

It is advised to install an inspection element before the hydrant inlet.

- The types 8336/37, 1896 and 5530 the extension pipe may be mounted at every 45° from the column pipe.
- The types 5401S and 5405S the extension pipe may be mounted as required through 360°.

After connection of the hydrant to the mains water supply and before filling in the trench it is necessary to carry out a pressure leakage inspection test.

It is important to securely anchor the hydrant in the trench before the pressure test. After the pressure test of the equipment a test run of all the functions must be carried out.

Remove the protection caps. Through slowly opening the valve some residual installation materials will be flushed out. Thereafter the valve should be properly closed and inspected for leaks. If leakage is apparent it is advised to repeat the flushing procedure to remove any further residue materials between the sealing faces.

To check the drainage function the valve must be closed. The hydrant should now drain independently (a suction is noticeable on the breather hole in the top).

After a final control of the pipe work, the filling in of the trench around the hydrant may be completed.

A bed of clean gravel must be filled in until covering the flange connections between inlet and column pipe.

This measure allows an unhindered seepage of the water from the draining process and prevents subsequent blocking of the opening.

According to the type of ground (for example where there are trees nearby) it is advisable to protect the hydrant for example with a reinforced concrete pipe that encloses the flange connections. To guarantee a good bedding in of the hydrant it is important to fill in layers and to compact the fill material by stamping down. For constant supply hydrants it is possible to do without a breather and drainage openings.

Portrait	Hydrants	Medium
	Under ground hydrants DN 80, PN 16	page 04.4
	Form A, single shut-off / enamelled PN 16	Figure 5525 Water
	Form AD, double shut-off / enamelled PN 16	Figure 5526 Water
	Form A, single shut-off / EPOXY PN 16	Figure 5527 Water
	Form AD, double shut-off / EPOXY PN 16	Figure 5528 Water
	Equipment for under ground hydrants	page 04.10
	Hydrant extensions	Figure 5529
	Yoke outlet connection	Figure 8327
	Above ground hydrants DN 80, 2 outlets B to DIN 14318	page 04.5
	Form AU, single shut-off PN 16	Figure 8336 Water
	Form AUD, double shut-off PN 16	Figure 8337 Water
	Above ground hydrants DN 100, 2 outlets B to DIN 14318	
	1 shut-off A to DIN 14319	page 04.6
	Form AU, single shut-off PN 16	Figure 8336 Water
	Form AUD, double shut-off PN 16	Figure 8337 Water
	Above ground hydrants DN 80, 2 outlets B to DIN 14318	page 04.7
	Vertical inlet PN 16	Figure 1896/B Water
	Elbow 90° PN 16	Figure 1896/B Water
	Above ground hydrants DN 80, 2 outlets C to DIN 14317	
	Vertical inlet PN 16	Figure 1896/C Water
	Elbow 90° PN 16	Figure 1896/C Water
	Above ground hydrants DN 80, 2 outlets B to DIN 14318	page 04.8
	Vertical inlet, zinc galvanised PN 16	Figure 5401/S Water
	Elbow 90° zinc galvanised PN 16	Figure 5401/S Water
	Vertical inlet, EKB coated PN 16	Figure 5405/S Water
	Elbow 90°, EKB coated PN 16	Figure 5405/S Water
	Above ground hydrants DN 150, 2 outlets B to DIN 14319	
	1 outlet A to DIN 14318	page 04.9
	Elbow 90° PN 16	Figure 5530 Water

Portrait

Hydrants

Medium



Equipment for under ground hydrants

Hydrant extensions
Yoke outlet connection

page 04.10

Figure 5529
Figure 8327



Under ground hydrant DN 80 with insert coupling for cast sleeve

page 04.11

Form A, single shut-off / enamelled	PN 16	Figure 5529	Water
Form AD, double shut-off / enamelled	PN 16	Figure 5530	Water
Form A, single shut-off / EPOXY	PN 16	Figure 5531	Water
Form AD, double shut-off / EPOXY	PN 16	Figure 5532	Water



Under ground hydrant DN 80 with insert coupling

page 04.12

Form A, single shut-off / enamelled	PN 16	Figure 5529	Water
Form AD, double shut-off / enamelled	PN 16	Figure 5530	Water
Form A, single shut-off / EPOXY	PN 16	Figure 5531	Water
Form AD, double shut-off / EPOXY	PN 16	Figure 5532	Water



Tunnel hydrant DN 80

Form AU, single shut-off with inlet elbow
Form AU, single shut-off straight inlet

PN 16
PN 16

page 04.13

Figure 8331
Figure 8331

Water
Water



Tunnel hydrant DN 100

Form AU, single shut-off with inlet elbow
Form AU, single shut-off straight inlet

PN 16
PN 16

page 04.14

Figure 8331
Figure 8331

Water
Water

Under ground hydrant DN 80



Figure	Medium	Design
Figure 5525 Figure 5526	Drinking water	Inside enamel, outside EPOXY-coating Form A, single shut-off Form AD, double shut-off
Figure 5527 Figure 5528	Drinking water	Inside und outside EPOXY-coating Form A, single shut-off Form AD, double shut-off

Technical dimensions

PN 16, EN-GJS-500-7

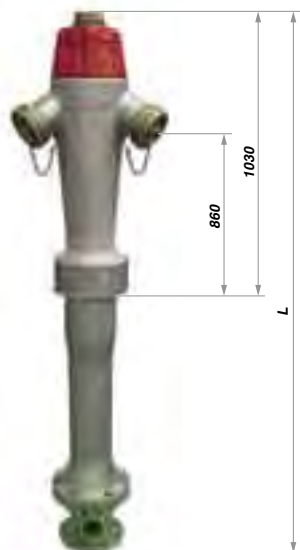
Nominal width DN mm	Pipe covering RD mm	Height H mm	Weight Figure 5525, 5527 kg	Weight Figure 5526, 5528 kg
80	750	530	24.0	24.5
80	1000	750	29.0	29.5
80	1250	1000	34.0	34.5
80	1500	1250	38.5	39.0

Technical description

Under ground hydrant to DIN 3221

- Min flow volume 110 m³/h
- Dirt trap on outlet
- Independent quick drainage
- Maintenance free spindle sealing and main shut-off
- Safety locking to secure removal of inner assemblies
- Vertical inlet with Flange PN 16 to DIN 2501
- Inspection to DIN 3230 Part 4
- Installation instructions AE 4307
- Operation with key C-DIN 3223

Above ground hydrants DN 80



Figure

Medium

Design

Figure 8336

Drinking water

Form AU, single shut-off

Figure 8337

Drinking water

Form AUD, double shut-off

Technical dimensions

PN 16, EN-GJS-400-15

Nominal width DN mm	Pipe covering RD mm	Installation length L mm	Weight kg	
			Form AU	Form AUD
80	1250	2150	65.0	66.0
80	1500	2400	70.0	71.0

Technical description

Above ground hydrants with predetermined breaking point to DIN 3222

- Flange PN 10/16 to DIN 2501
- Inspection to DIN 3230 Part 4
- Housing EN-GJS-400-15
inside enamel to DIN 3475
outside additional EKB coating to DIN 30677 Part 2
grey RAL 7031, other colours on request
- Rubber coated cone
- Spindle, screws and nuts from stainless steel
- Brass spindle nut
- Type AUD with additional ball shut off valve
- Self draining
- Minimum flow volume 140 m³/h - 2 outlets B to DIN 14318

Above ground hydrants DN 100



Figure

Figure 8336

Medium

Drinking water

Design

Form AU, single shut-off

Figure 8337

Drinking water

Form AUD, double shut-off

Technical dimensions

PN 16, EN-GJS-400-15

Nominal width DN mm	Pipe covering RD mm	Installation length L mm	Weight kg	
			Form AU	Form AUD
100	1250	2150	80.0	81.0
100	1500	2400	85.0	86.0

Technical description

Above ground hydrants with predetermined breaking DIN 3222

- Flange PN 10/16 to DIN 2501
- Inspection to DIN 3230 Part 4
- Housing EN-GJS-400-15
inside enamel to DIN 3475
outside additional EKB coating to DIN 30677 Part 2
grey RAL 7031, other colours on request
- Rubber coated cone
- Spindle, screws and nuts from stainless steel
- Brass spindle nut
- Type AUD with additional ball shut off valve
- Self draining
- Minimum flow volume 210m³/h – 1 outlet A to DIN 14319
- 2 Outlets B to DIN 14318

Above ground hydrants



Figure

Medium

Design

Figure 1896/B

Drinking water

2 outlets B (Storz 75)
to DIN 14318

Figure 1896/C

Drinking water

2 outlets C (Storz 55)
to DIN 14319

Technical dimensions

PN 16, GG25

Nominal width DN mm	Pipe covering RD mm	Column pipe length (L)		Weight Inlet elbow kg	Weight Straight inlet kg
		Inlet elbow mm	Straight inlet mm		
80	1000	800	700	146.0	136.0
80	1200	1000	900	140.0	139.0
80	1400	1200	1100	145.0	133.5

Technical description

Above ground hydrants 5000 with upper part to DIN 3222

- Simple shut off Form AU from grey cast iron
- Upper part zinc sprayed, Eclon coated in mouse grey RAL 7005
- Lower part hot dip galvanised
- Open/close Hex head SW 70 with adornment
- Automatic drainage valve
- Vertical inlet with Flange DN 100, however drilled to DN 80, EPOXY coated
- 90° inlet elbow with Flange DN 100, however drilled to DN 80, EPOXY coated
- Inspection to DIN 3230 Part 4

Above ground hydrants DN 80



Figure

Figure 5401/S

Medium

Drinking water

Design

Hot dip galvanised

Figure 5405/S

Drinking water

Hot dip galvanised
Additional choice of red, blue, yellow
or green
EKB coated

Technical description

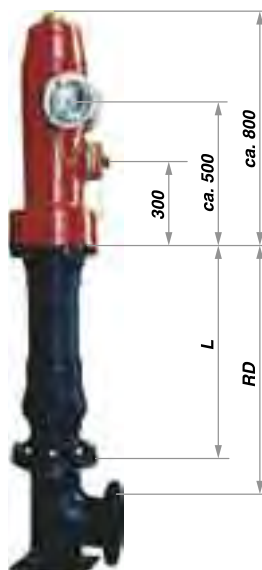
- Above ground hydrants 5000 S, DN 80, PN 16
Prepared to receive the device (LOG 50*)
for electronic recording of sound resonance,
pressure, flow rate and temperature in the water supply main
- Simple shut off (Form AU, pipe covering 1250)
 - Upper part EN-GJS-500-7
 - Lower part hot dip galvanised
 - Minimum flow volume 110 m³/h -1 outlet B to DIN 14318
 - Automatic draining
 - 90° inlet elbow with Flange DN 100, however drilled to DN 80
 - Inlet Vertical and/or Flange connection DN 100 on request

The future- * System LOG 50 – Leak recognition and position location

The newest technology for an efficient leak recognition and position fixing. LOG 50 – protected from outside influences in a special housing of the 5000s hydrant.

The installation of the LOG 50 system guarantees the safest and most economic monitoring of the mains water supply.
Measurement interval: from 1 sec – 99 hours may be chosen with the default of the start date.

Industrial - Above ground hydrants DN 150



Figure

Figure 5530

Medium

Water

Design

Form AUD, single shut-off

Technical dimensions

PN 16, GG25 / EN-GJS-500-7

Nominal width DN mm	Pipe covering RD mm	Column pipe length L mm	Weight kg
150	1250	1000	174.0

Technical description

Above ground hydrants to DIN 3222

- Simple shut off, Form AUD
- Upper part grey cast iron 25 hot dip galvanised and red RAL 3000 EKB coated
- Lower part EN-GJS-500-7 hot dip galvanised
- Minimum flow volume 400 m³/h - 2 outlets A to DIN 14319
- 1 Outlet B to DIN 14318
- Automatic draining
- Inlet elbow 90° with flange EN-GJS-500-7
- Flange PN 10/16 to DIN 2501
- EKB coated

Hydrant extension for under ground hydrant 5000 DN 80

Figure 5529

Hydrant extension for under ground hydrant 5000 to DIN 3221
For drinking water
Yoke extensions from EN-GJS-500-7 heavy duty anti-corrosive protection coating inside and outside with EPOXY-coating incl. cap
Spindle extension with protection tube from HDPE

	DN	Extension mm
Hydrant extension	80	100
	80	150
	80	200
	80	300



Yoke closer for under ground hydrant 5000 DN 80

Figure 8327

Yoke closer for under ground hydrant 5000
Spindle with square head and locking device from malleable cast iron.
Plate from grey cast iron, plate seals with rubber inlay



Piping monitoring for under ground hydrant 5000 DN 80

Figure 5527R Form A , single shut-off

Figure 5528R Form AD, double shut-off

Under ground hydrant 5000 to DIN 3221 prepared for accepting the device LOG 50* for the electronic recording from sound resonance, pressure, flow rate and temperature in water pipe lines.



* System LOG 50 – Leak recognition and position location

The newest technology for an efficient leak recognition and position fixing.
LOG 50 – protected from outside influences in a special housing of the 5000s hydrant.

That's why the installation of the LOG 50 system guarantees the safest and economic monitoring of the mains water supply.

Measurement interval: from 1 sec – 99 hours may be chosen with the default of the start date.

Prospect and further information may be requested direct from us through the sales department.



Under ground hydrant DN 80 with insert coupling for cast sleeve



Figure	Medium	Design
Figure 5533 Figure 5534	Drinking water	Inside enamel, outside EPOXY-coating Form A, single shut-off Form AD, double shut-off
Figure 5531 Figure 5532	Drinking water	Inside and outside EPOXY-coating Form A, single shut-off Form AD, double shut-off

Technical dimensions

PN 16, EN-GJS-500-7

Nominal width DN mm	Pipe covering RD mm	Height H* mm	Weight Figure 5529, 5532 kg	Weight Figure 5526, 5528 kg
80	750	610	25.5	26.0
80	1000	830	30.5	31.0
80	1250	1080	35.5	36.0
80	1500	1320	40.0	40.5

Technical description

- Under ground hydrant to DIN 3221,
- Minimum flow volume 110 m³/h
 - Dirt trap on outlet
 - Independent quick drainage
 - Maintenance free spindle sealing and main shut-off
 - Safety locking to secure removal of inner assemblies
 - Inspection to DIN 3230 Part 4
 - Installation instructions AE 4307
 - Operation with key C-DIN 3223

*** Dimension reduces after installation by about 70 mm**

Under ground hydrant DN 80 with insert coupling

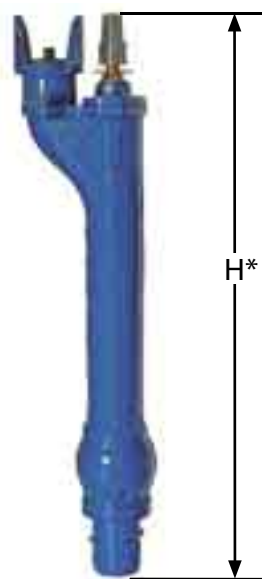


Figure	Medium	Design
Figure 5533 Figure 5534	Drinking water	Inside enamel, outside EPOXY-coating Form A, single shut-off Form AD, double shut-off
Figure 5531 Figure 5532	Drinking water	Inside and outside EPOXY-coating Form A, single shut-off Form AD, double shut-off

Technical dimensions

PN 16, EN-GJS-500-7

Nominal width DN mm	Pipe covering RD mm	Height H* mm	Weight Figure 5529, 5532 kg	Weight Figure 5526, 5528 kg
80	750	660	26.0	26.5
80	1000	880	31.0	31.5
80	1250	1130	36.0	36.5
80	1500	1380	40.5	41.0

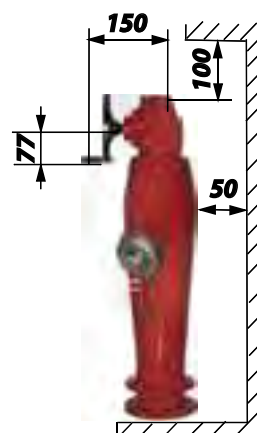
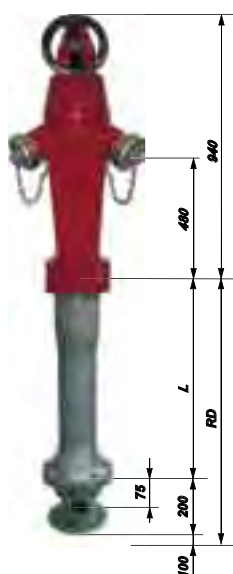
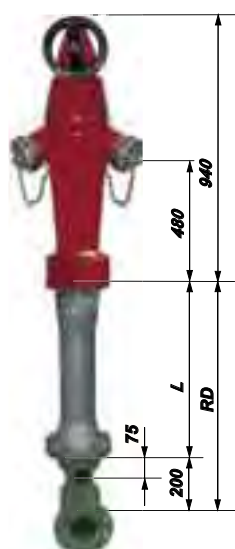
Technical description

Under ground hydrant to DIN 3221, version with insert coupling Inc. Interlocking lugs (BAIO)

- Minimum flow volume 110 m³/h
- Dirt trap on outlet
- Independent quick drainage
- Maintenance free spindle sealing and main shut-off
- Safety locking to secure removal of inner assemblies
- Inspection to DIN 3230 Part 4
- Installation instructions AE 4307
- Operation with key C-DIN 3223

*** Dimension reduces after installation by about 80 mm**

Tunnel hydrant DN 80



Minimal free space for hydrant operation

Figure	Medium	Design
Figure 8331 / DN 80	Drinking water	Form AU, single shut-off with inlet elbow
Figure 8331 / DN 80	Drinking water	Form AU, single shut-off with straight inlet

Technical dimensions

Nominal width DN mm	Hydrant with straight inlet			Hydrant with inlet elbow		
	Pipe covering RD mm	Installation length L mm	Weight kg	Pipe covering RD mm	Installation length L mm	Weight kg
80	1000	700	90.0	900	700	93.0
80	1100	800	93.0	1000	800	96.0
80	1200	900	96.0	1100	900	99.0
80	1300	1000	99.0	1200	1000	102.0
80	1400	1100	102.0	1300	1100	105.0
80	1500	1200	105.0	1400	1200	108.0

Technical description

- Tunnel hydrant to DIN 3222
- Equipped with Auma- special bevel gear actuator for installation in tunnel recess
 - Operation with front mounted hand wheel
 - Flange PN 10/16 to DIN 2501
 - Inspection to DIN 3230 Part 4
 - Housing EN-GJS-400-15 (EN-JS 1030)
 - Hot dip galvanised, inside polyurethane coated
 - Rubber coated cone
 - Spindle, screws and nuts from stainless steel
 - Brass spindle nut
 - Self draining
 - Minimum flow volume 210m³/h - 2 outlets B to DIN 14318

Tunnel hydrant DN 100

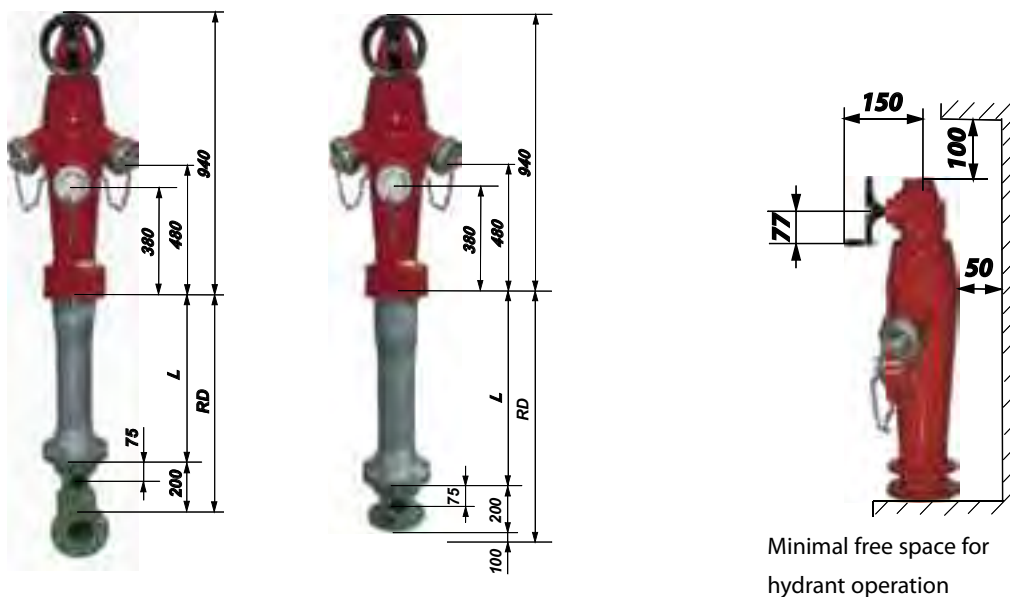


Figure	Medium	Design
Figure 8331 / DN 100	Drinking water	Form AU, single shut-off with inlet elbow
Figure 8331 / DN 100	Drinking water	Form AU, single shut-off with straight inlet

Technical dimensions

Nominal width DN mm	Hydrant with straight inlet			Hydrant with inlet elbow		
	Pipe covering RD mm	Installation length L mm	Weight kg	Pipe covering RD mm	Installation length L mm	Weight kg
100	1000	700	90,0	900	700	93,0
100	1100	800	93,0	1000	800	96,0
100	1200	900	96,0	1100	900	99,0
100	1300	1000	99,0	1200	1000	102,0
100	1400	1100	102,0	1300	1100	105,0
100	1500	1200	105,0	1400	1200	108,0

Technical description

Tunnel hydrant to DIN 3222

- Equipped with Auma- special bevel gear actuator for installation in tunnel recess
- Operation with front mounted hand wheel
- Flange PN 10/16 to DIN 2501
- Inspection to DIN 3230 Part 4
- Housing EN-GJS-400-15 (EN-JS 1030)
- Hot dip galvanised and red polyurethane coated
- Rubber coated cone
- Spindle, screws and nuts from stainless steel
- Brass spindle nut
- Self draining
- Minimum flow volume 210m³/h
- 1 outlet A to DIN 14319
- 2 outlets B to DIN 14318



Valve fitting tapping saddles

Valve tapping fittings and tapping saddles

General notes

Valve tapping fittings are used for house connections or branch pipes on existing pipelines above or below ground.

They may be installed with or without shutting off the supply.

Penetrating the main pipe after bolting or welding the fitting may be carried out using an external or an integrated trepanning bit.

For the various pipe materials there are suitable valve tapping fittings that may be used.

Special features

- All cast iron parts receive a heavy duty anti-corrosive protective coating inside and out using EPOXY dip powder system (EWS) to GSK guidelines, min 250 µm.
- Maintenance free spindle seals
- KTW- Certification for all non-metallic parts
- Brass elbow valve with or without trepanning bit

Installation and operation

Valve tapping fittings may be used for both vertical and horizontal situations.

Fittings with an integrated mains shut off are normally operated via an installation.

The assembly and trepanning instructions are found under **A-05.1 to A-05.8**.

Service

The valves tapping fittings generally require no service and may be buried in the earth.

The spindle is protected against dirt from outside by an extra sealing ring

The lubrication of the spindle with mineral based greases or oils is to be avoided!

Applications

Valve tapping fittings are in the presented configuration suitable for drinking water and drainage.

For external trepanning the standard drilling equipment may be used.

The appropriate boring instructions must be observed.

Special purpose designs

- Elbow valve made from corrosion resistant brass (dezincification) for aggressive ground conditions
- Chrome plated elbow valve for better corrosion resistance
- Saddles for unusual pipe diameters

Valve tapping fittings and tapping saddles

Certification and registration

D - DVGW – Registration for Water
PL - INGN Certified for Gas – shut off valves
PL - TIN Certification for Water – shut off valves
CZ - HLAVNI HYGIENIC Certification for Water – shut off valves

Inspection

- Valve tapping fittings with mains shut off to DIN 3230 Part 3
Test certification to EN 10204 by customer request.

Technical data

Maximum operating temperature range from -5° C to +40° C
Serial number to DIN EN 19
Threaded outlet ISO 7/1 - G 1½", 2"

Operational equipment (see chapter 9)

- Telescopic operation set
- Hand wheel: coated black to DIN 3220

Recycling

Our valves and fittings are manufactured from recyclable materials.

Portrait	Valve tapping saddle fittings		Medium	
	Valve tapping saddle for cast iron, steel and cement pipes Outlet 1 1/2" internal thread for boring with auxiliary installation valve 0041188H	PN 16	Page 05.3 Figure 8300	Water
	Outlet 1 1/2" internal thread for boring with auxiliary installation valve 0041187H	PN 16	Figure 8307	Water
	Valve tapping saddle for cast iron, steel and cement pipes Connecting piece G 2" with outlet 2"	PN 16	Page 05.4 Figure 8308	Water
	Connecting piece W 2" with outlet 2"	PN 16	Figure 8309	Water
	Valve tapping saddle for cast iron, steel and cement pipes Connecting piece with outlet HDPE insert end	PN 16	Page 05.5 Figure 8306	Water
	Connecting piece G 2" with outlet HDPE insert end	PN 16	Figure 8398	Water
	Brace for valve saddle fitting for cast iron, steel and cement pipes Threaded brace	PN 16	Page 05.6 Figure 8301 / 1	
	Valve tapping saddle 5000 for cast iron, steel and cement pipes Outlet external thread 1", 1 1/4", 1 1/2" and 2"	PN 16	Page 05.7 Figure 5980	Water
	Valve tapping saddle 5000 for cast iron, steel and cement pipes Outlet internal thread 1", 1 1/4", 1 1/2" and 2"	PN 16	Page 05.7 Figure 8361	Water

Portrait	Valve tapping saddle			Medium
	Angle body valve in brass Angle body valve 1½", 2"	PN 16	Page 05.8 Figure 8360	Water
	Angle body valve 1½", 2" with tapping drill short and long	PN 16	Figure 8365	Water
	Blind saddle clamp for cast iron, steel and cement pipes Blind saddle clamp	PN 16	Page 05.8 Figure 8364	Water
	Tapping saddle clamp with domestic mains gate valve For horizontal boring Outlet 1", 1¼", 1½" and 2"	PN 16	Page 05.9 Figure 5981	Water
	Valve tapping fitting for PVC and HDPE pipes Without tapping drill Outlet 1½" and 2"	PN 10 / 6 / 4	Page 05.10 Figure 8302	Water
	With tapping drill Outlet 1½" and 2"	PN 10 / 6 / 4	Page 05.11 Figure 8303	Water
	Valve tapping fitting for PVC and HDPE pipes With tapping drill Outlet for pipe 32 and 40 Threaded	PN 10 / 6	Page 05.12 Figure 8358	Water
	Valve tapping fitting for clamping on PVC and HDPE pipes With tapping drill Outlet 1½"	PN 16	Page 05.13 Figure 8394	Water

Portrait	Valve tapping fittings	Medium
	Valve tapping fitting to fusion-weld onto HDPE pipes Without tapping drill Outlet 1½"	Page 05.14 Figure 8304 Water
	With tapping drill Outlet 1½"	Page 05.14 Figure 8305 Water
	Valve tapping fitting to fusion-weld onto HDPE pipes With tapping drill Outlet for HDPE pipe PE100 -DN 25/DR 32* -DN 32/DR 40*	Page 05.15 Figure 8359 Water
	* Outside diameter HDPE pipe in mm	
	PP-Tapping saddle for PVC and HDPE pipes Outlet 1½" and 2"	Page 05.16 Figure 8362 Water
	ELGEF Plus electro fusion welded connection saddle complete with under side Outlet 63 mm	Page 05.16 Figure 8363 Water

Valve tapping fitting for cast iron, steel and cement pipes

Figure 8300, PN 16

Connecting piece with outlet 1½" inside thread
for drilling with auxiliary installation valve 0041188H

Bored 31 mm

Assembly and boring instructions AE 4884 **see supplement A-05.3**

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection with thick EPOXY coating (powder dip system EWS) and brass angle body valve

- All seals are suitable for drinking water and KTW tested

- Angle body valve may be rotated up to 45° left or right owing to the double O-ring sealing, enabling an optimal fit on the outlet pipe (domestic mains connection)

Figure 8307, PN 16

Connecting piece with outlet 1½" inside thread
for drilling with auxiliary installation valve 0041187H

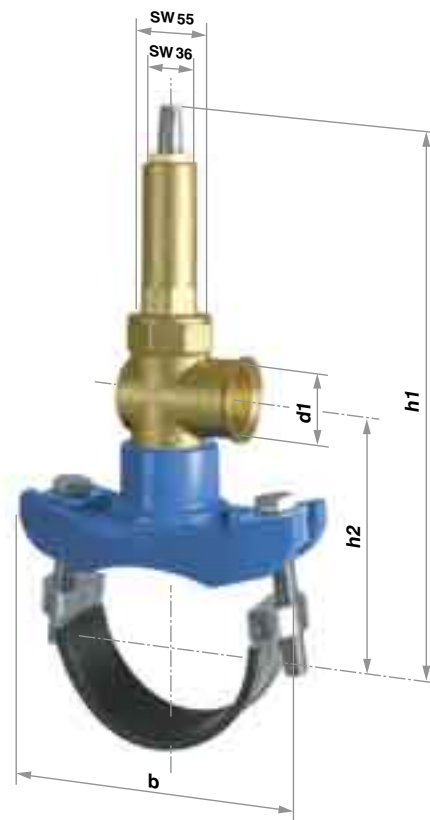
Bored 31 mm

Assembly and boring instructions AE 5158 **see supplement A-05.5**

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection with thick EPOXY coating (powder dip system EWS) and brass angle body valve

- All seals are suitable for drinking water and KTW tested

- Angle body valve may be rotated up to 45° left or right owing to the double O-ring sealing, enabling an optimal fit on the outlet pipe (domestic mains connection)



Technical dimensions

Figure 8300, 8307

DN	d2*	b	d1	h1	h2
65	76 - 86	200	1½"	350	156
80	88 - 108	200	1½"	362	164
100	108 - 130	200	1½"	380	176
125	133 - 159	200	1½"	390	190
150	159 - 182	200	1½"	395	203
150	183 - 198	200	1½"	415	210
200	216 - 240	200	1½"	420	230
200	245 - 258	200	1½"	450	240
250	267 - 296	200	1½"	450	257
250	298 - 316	200	1½"	470	270
300	324 - 342	200	1½"	480	282
300	352 - 368	200	1½"	490	295
350	352 - 368	200	1½"	490	295
350	372 - 394	200	1½"	500	307
400	419 - 432	200	1½"	525	328

* Pipe outside diameter

Appropriate brace Figure 8301 / 1 see page 05.6

Valve tapping fitting for cast iron, steel and cement pipes

Figure 8308, PN 16

Connecting piece „G2“ with exit 2" inside thread
for boring with auxiliary installation valve 0041185H

Bored 45 mm, full throughput

Assembly and boring instructions AE 5157 **see supplement A-05.4**

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection with thick EPOXY coating (powder dip system EWS) and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring sealing enabling an optimal fit on the outlet pipe (domestic mains connection)

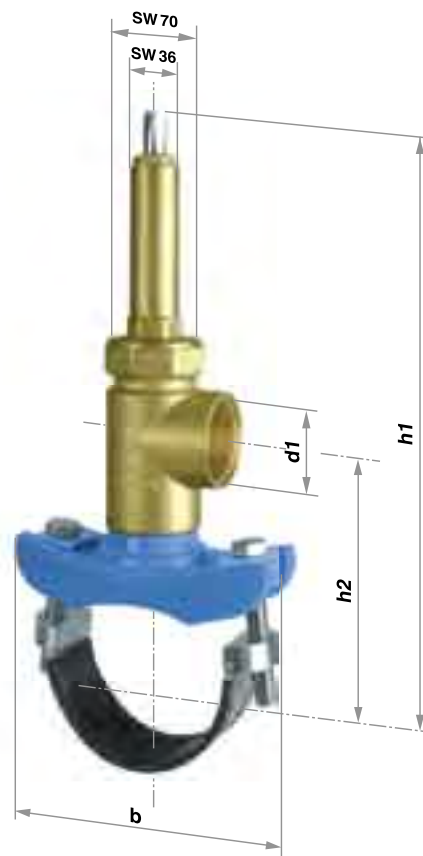


Figure 8309, PN 16

Connecting piece „W2“ with exit 2" Inside thread
for boring with auxiliary installation valve 0041185H

Bored 36 mm, reduced throughput

Assembly and boring instructions AE 5157 **see supplement A-05.4**

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection with thick EPOXY coating (powder dip system EWS) and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring sealing enabling an optimal fit on the outlet pipe (domestic mains connection)

Technical dimensions

Figure 8308, 8309

DN	d2*	b	d1	h1	h2
65	76 - 86	200	2"	400	161
80	88 - 108	200	2"	412	169
100	108 - 130	200	2"	430	181
125	133 - 159	200	2"	440	195
150	159 - 182	200	2"	445	208
150	183 - 198	200	2"	465	215
200	216 - 240	200	2"	470	235
200	245 - 258	200	2"	500	245
250	267 - 296	200	2"	500	262
250	298 - 316	200	2"	520	275
300	324 - 342	200	2"	530	287
300	352 - 368	200	2"	540	300
350	352 - 368	200	2"	540	300
350	372 - 394	200	2"	550	312
400	419 - 432	200	2"	575	333

* Pipe outside diameter

Appropriate brace Figure 8301/1 see page 05.6

Valve tapping fitting for cast iron, steel and cement pipes

Figure 8306, PN 16

Connecting piece 1 1/2" with outlet HDPE- insert end PE 100, black

DN 32 / pipe ø 40

For boring without pressure

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection coating with thick EPOXY coating (dip powder system EWS) and brass angle body valve

- All seals are suitable for drinking water and KTW tested

- Angle body valve may be rotated up to 45° left or right owing to the double O-ring sealing enabling an optimal fit on the outlet pipe (domestic mains connection)

Figure 8398, PN 16

Connecting piece G2" with outlet HDPE- insert end PE 100, black

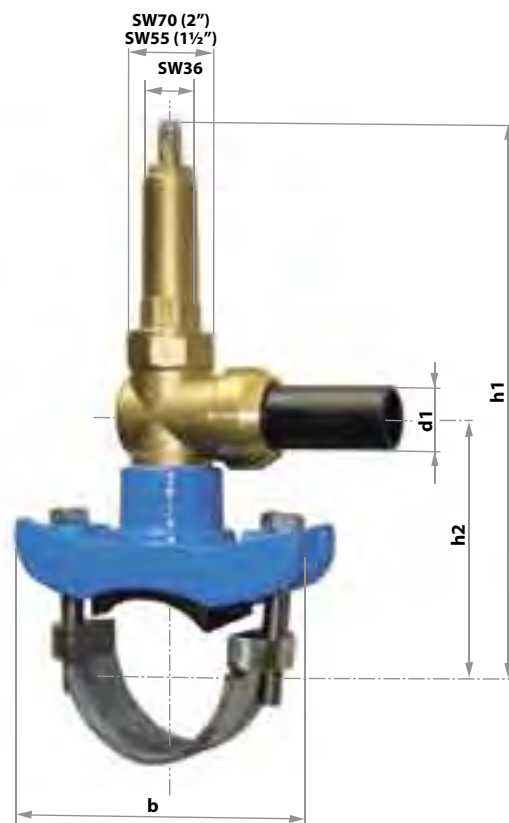
DN 50 / pipe ø 63

For boring without pressure

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection coating with thick EPOXY coating (dip powder system EWS) and brass angle body valve

- All seals are suitable for drinking water and KTW tested

- Angle body valve may be rotated up to 45° left or right owing to the double O-ring sealing enabling an optimal fit on the outlet pipe (domestic mains connection)



Technical dimensions

			Figure 8306 / 1 1/2"			Figure 8398 / 2"		
DN	d2*	b	d1	h1	h2	d1	h1	h2
65	76 - 86	200	40	350	156	63	400	161
80	88 - 108	200	40	362	164	63	412	169
100	108 - 130	200	40	380	176	63	430	181
125	133 - 159	200	40	390	190	63	440	195
150	159 - 182	200	40	395	203	63	445	208
150	183 - 198	200	40	415	210	63	465	215
200	216 - 240	200	40	420	230	63	470	235
200	245 - 258	200	40	450	250	63	500	245
250	267 - 296	200	40	450	257	63	500	262
250	298 - 316	200	40	470	270	63	520	275
300	324 - 342	200	40	480	282	63	530	287
300	352 - 368	200	40	490	295	63	540	300
350	352 - 368	200	40	490	295	63	540	300
350	372 - 394	200	40	500	307	63	550	312
400	419 - 432	200	40	525	328	63	575	333

* Pipe outside diameter

Appropriate brace Figure 8301 / 1 see page 05.6

Valve tapping fitting for cast iron, steel and cement pipes

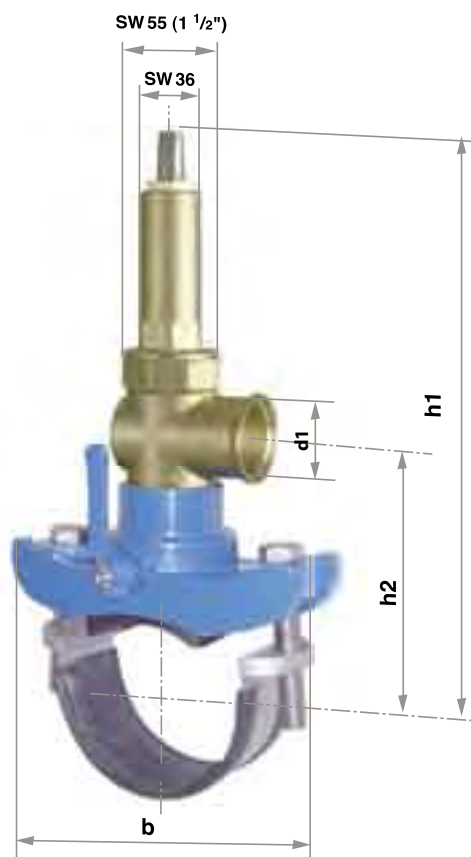
Figure 8399, PN 16

Connection piece 1 1/2"

Bored 31 mm, with integrated ball valve shut off

Assembly and boring instructions

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection with thick EPOXY coating (powder dip system EWS) and with brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)



Technical dimensions

Figure 8399 / 1 1/2"

DN	d2*	b	d1	d1	h1	h2
65	76 - 86	200	32	40	350	156
80	88 - 108	200	32	40	362	164
100	108 - 130	200	32	40	380	176
125	133 - 159	200	32	40	390	190
150	159 - 182	200	32	40	395	203
150	183 - 198	200	32	40	415	210
200	216 - 240	200	32	40	420	230
200	245 - 258	200	32	40	450	250
250	267 - 296	200	32	40	450	257
250	298 - 316	200	32	40	470	270
300	324 - 342	200	32	40	480	282
300	352 - 368	200	32	40	490	295
350	352 - 368	200	32	40	490	295
350	372 - 394	200	32	40	500	307
400	419 - 432	200	32	40	525	328

* Pipe outside diameter

Appropriate brace Figure 8301 / 1 see page 05.6

Valve tapping fitting for cast iron, steel and cement pipes

Figure 8397, PN 16

Connecting piece 1 1/2" with outlet HDPE-insert end PE 100, black

DN 25 / pipe ø 32 mm or. DN 32 / pipe ø 40 mm

With integrated ball valve shut off

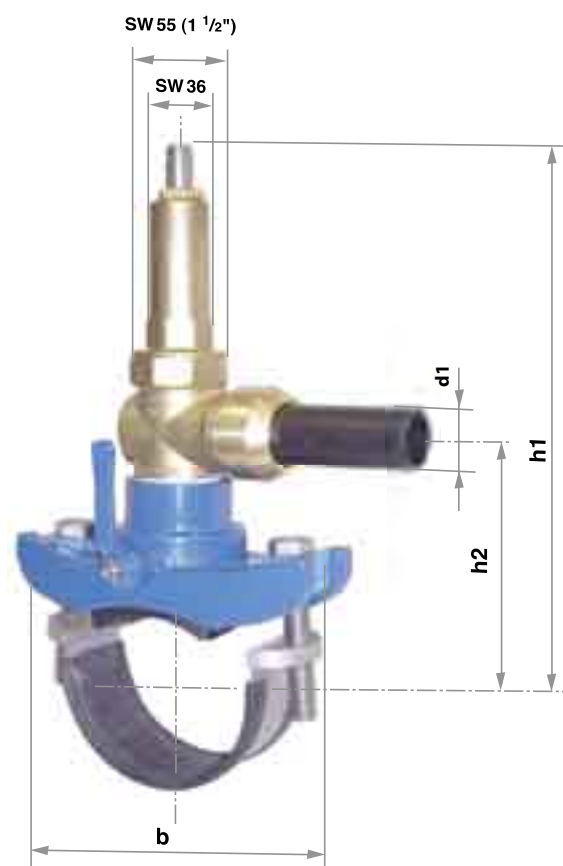
Assembly and boring instructions

- Combination saddle piece from EN-GJS-500-7 heavy duty anti-corrosive protection with thick EPOXY coating (powder dip system EWS)

and with brass angle body valve

- All seals are suitable for drinking water and KTW tested

- Angle body valve may be rotated up to 45° left or right owing tot the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)



Technical dimensions

Figure 8397 / 1 1/2"

DN	d2*	b	d1	d1	h1	h2
65	76 - 86	200	32	40	350	156
80	88 - 108	200	32	40	362	164
100	108 - 130	200	32	40	380	176
125	133 - 159	200	32	40	390	190
150	159 - 182	200	32	40	395	203
150	183 - 198	200	32	40	415	210
200	216 - 240	200	32	40	420	230
200	245 - 258	200	32	40	450	250
250	267 - 296	200	32	40	450	257
250	298 - 316	200	32	40	470	270
300	324 - 342	200	32	40	480	282
300	352 - 368	200	32	40	490	295
350	352 - 368	200	32	40	490	295
350	372 - 394	200	32	40	500	307
400	419 - 432	200	32	40	525	328

* Pipe outside diameter

Appropriate brace Figure 8301 / 1 see page 05.6

Brace for valve tapping fitting for cast iron, steel and cement pipes

Figure 8301/1, PN 16

Stainless steel brace inclusive rubber inlay and reinforced ends for 16 mm bolts and sealing element

The braces are for use with Figure numbers:

Figure-Nr. 5980, 5981, 8300, 8306, 8307, 8308, 8309, 8361, 8364 and 8398.



Brace and pipe diameters for valve tapping fitting for cast iron, steel and cement pipes

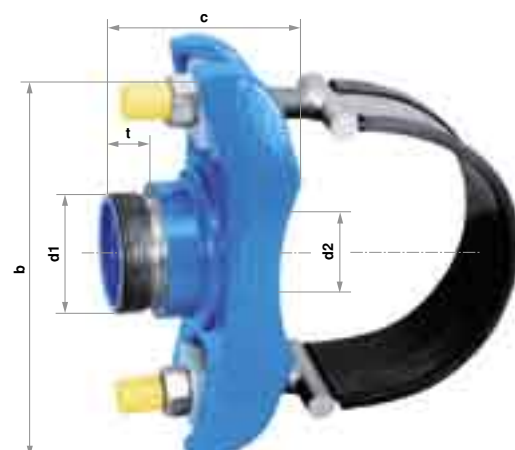
Pipe sizes (Outside diameter)

DN	Iron pipe	Iron pipe inside cement coated	Steel pipe	Cement pipe PN 6	Cement pipe PN 10	Cement pipe PN 12.5	Cement pipe PN 16	Required brace sizes
65	82	-	76,1	-	-	83	85	76 - 85
80	98	108	88,1	-	98	100	104	88 - 108
100	118	128	144,3/108	118	120	124	130	108 - 130
125	144	154	139,7/133	145	149	153	159	133 - 159
150	170	180	168,3/159	172	178	182	-	159 - 182
150	-	-	-	-	-	-	190	183 - 198
200	222	232	219,1/216	226	234	240	-	216 - 240
200	-	-	-	-	-	-	252	245 - 258
250	274	284	273/267	278	286	296	-	267 - 296
250	-	-	-	-	-	-	308	298 - 318
300	-	-	318	-	-	-	-	298 - 318
300	326	-	323,9	334	342	-	-	324 - 342
300	-	-	-	-	-	352	368	352 - 368
350	-	-	355,6/368	-	-	-	-	352 - 368
350	378	388	-	388	-	-	-	372 - 394
350	-	-	-	-	400	410	-	399 - 410
350	-	-	-	-	-	-	428	419 - 432
400	429	-	419	-	-	-	-	419 - 432
400	-	-	-	-	456	470	-	456 - 470
400	-	-	-	-	-	-	488	485 - 490

Valve tapping saddle 5000 with outside threaded outlet for cast iron, steel and cement pipes

Figure 5980, PN 10 (16)

Saddle piece	EN-GJS-500-7, EPOXY-coated
Saddle seals	NBR-DUO for water and gas
Brace	Stainless steel brace strap with rubber inlay, reinforcements and M 16 bolts
Clamp parts	Polyamide 6
Hexagonal nut	DIN 934 M16-A4-70 - plated



Technical dimensions

Saddle piece	DN 65 to 400				
d1	d2	b	c	t	
1"	26	200	92	18	
1¼"	32	200	92	20	
1½"	40	200	92	20	
2"	48	200	92	25	

Appropriate brace figure 8301 / 1 see page 05.6

Valve tapping saddle 5000 with inside threaded outlet for cast iron, steel and cement pipes

Figure 8361, PN 16

Saddle piece	EN-GJS-500-7, EPOXY-coated
Saddle seals	NBR-DUO for water and gas
Brace	Stainless steel brace strap with rubber inlay, reinforcements and M 16 bolts
Clamp parts	Polyamide 6
Hexagonal nut	DIN 934 M16-A4-70 - plated

Technical dimensions

Saddle piece	DN 65 to 400			
d1	d2	b	c	
1"	26	200	32	
1¼"	32	200	32	
1½"	40	200	84	
2"	48	200	32	

Appropriate brace figure 8301 / 1 see page 05.6



Angle body valve 1½", 2" from brass for valve tapping fittings

Figure 8360, PN 16 without boring bit 1½", 2"

Figure 8365, PN 16 with boring bit 1½", 2", short and long

Housing	CuZn40Pb2
Spindle	1.4305 (Stainless steel)
Sealing	PTFE
Round ring	NBR70 - KTW
Boring bit	CuZu39Pb3

Technical dimensions

Angle body	DN 65 to 400	
d1	1½"	2"
d2	1½"	2"
b	82,5	90
h	243	296



Blind saddle clamp for cast iron, steel and cement pipes

Figure 8364, PN 16

- Saddle piece from EN-GJS-500-7, EPOXY-coated
- All seals are suitable for drinking water and KTW tested
- Suitable for DN 65 to 400

Appropriate brace figure 8301 / 1 see page 05.6



Valve tapping saddle 5000 for horizontal boring of cast iron, steel and cement pipes

Figure 5981, PN 16

Combination saddle piece Figure 5980

with domestic mains gate valve Figure 5001

Threaded outlet 1", 1¼", 1½", 2"

Assembly and boring instructions AE 5161 see supplement A-05.6

Appropriate brace Figure 8301/1 see page 05.6



Technical dimensions

Threaded outlet	DN	d	h	l	t	SW
1"	65	82	197	216	26	55
1"	80	82	197	222	26	55
1"	100	82	197	233	26	55
1"	125	82	197	245	26	55
1"	150	82	197	259	26	55
1"	200	82	197	285	26	55
1"	250	82	197	311	26	55
1"	300	82	197	337	26	55
1"	350	82	197	363	26	55
1"	400	82	197	389	26	55
1¼"	65	82	197	214	26	55
1¼"	80	82	197	220	26	55
1¼"	100	82	197	231	26	55
1¼"	125	82	197	243	26	55
1¼"	150	82	197	257	26	55
1¼"	200	82	197	283	26	55
1¼"	250	82	197	309	26	55
1¼"	300	82	197	335	26	55
1¼"	350	82	197	361	26	55
1¼"	400	82	197	387	26	55
1½"	65	86	202	224	26	60
1½"	80	86	202	230	26	60
1½"	100	86	202	241	26	60
1½"	125	86	202	253	26	60
1½"	150	86	202	267	26	60
1½"	200	86	202	293	26	60
1½"	250	86	202	319	26	60
1½"	300	86	202	345	26	60
1½"	350	86	202	371	26	60
1½"	400	86	202	397	26	60
2"	65	90	211	244	31	75
2"	80	90	211	250	31	75
2"	100	90	211	261	31	75
2"	125	92	211	273	31	75
2"	150	90	211	287	31	75
2"	200	90	211	313	31	75
2"	250	90	211	339	31	75
2"	300	90	211	365	31	75
2"	350	90	211	391	31	75
2"	400	90	211	417	31	75

Valve tapping fitting for PVC and HDPE pipes

Figure 8302 / 1 1/2", PN 10 / 6 / 4

Valve tapping fitting for PVC and HDPE pipes

Outlet 1 1/2" inside thread for boring with **auxiliary installation valve**
0041188 H

Bored 31 mm***

For drinking water / waste water

Assembly and boring instructions AE 4884 **see supplement A-05.3**

- Combination boring bridge from PP and brass angle body valve
- All seals are suitable for drinking water and KTW tested

Figure 8302 / 2", PN 10 / 6 / 4

Valve tapping fitting for PVC and HDPE pipes

Outlet 2" inside thread for boring **with auxiliary installation valve**
0041185H

Bored 45 mm, full throughput

For drinking water / waste water

Assembly and boring instructions AE 5157 **see supplement A-05.4**

- Combination boring pipe clamp from PP and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seal-



Technical dimensions

Figure 8302 / 1 1/2"							Figure 8302 / 2"			
DN	PN	d2*	d1	b	h1	h2	d1	b	h1	h2
40***	10	50	1 1/2"	100	310	122	-	-	-	-
50	10	63	1 1/2"	116	283	97	-	-	-	-
65	10	75	1 1/2"	124	289	103	-	-	-	-
80	10	90	1 1/2"	142	297	111	2"	142	345	122
100	10	110	1 1/2"	165	307	121	2"	165	355	132
100	10	125	1 1/2"	181	314	128	2"	180	362	139
125	10	140	1 1/2"	200	322	136	2"	200	370	147
150	10	160	1 1/2"	218	332	146	2"	218	380	157
150	6	180	1 1/2"	260	342	156	2"	260	390	167
200	6	200	1 1/2"	260	352	166	2"	260	400	177
200	6	225	1 1/2"	290	365	179	2"	290	413	190
250	6	250	1 1/2"	320	377	191	2"	320	425	202
250**	10	280	1 1/2"	390	392	206	2"	390	440	217
300**	10	315	1 1/2"	400	410	224	2"	400	458	235

* Pipe outside diameter

** Only for HDPE-pipe PE 100

*** Bored 24 mm at DN 40

Valve tapping fitting with boring bit for PVC and HDPE pipes

Figure 8303 / 1 1/2", PN 10 / 6 / 4

Valve tapping fitting with boring bit for PVC and HDPE pipes

Outlet 1 1/2" inside thread

Bored 31 mm***

For drinking water

Assembly and boring instructions AE 5162 **see supplement A-05.7**

- Combination boring bridge from PP and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allows an optimal fit on the outlet pipe . (domestic mains connection)

Figure 8303 / 2", PN 10 / 6 / 4

Valve tapping fitting with boring bit for PVC and HDPE pipes

Outlet 2" inside thread

Bored 45 mm, full throughput

For drinking water

Assembly and boring instructions AE 5162 **see supplement A-05.7**

- Combination boring bridge from PP and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allows an optimal fit on the outlet pipe . (domestic mains connection)



Technical dimensions

Figure 8303 / 1 1/2"							Figure 8303 / 2"			
DN	PN	d2*	d1	b	h1	h2	d1	b	h1	h2
40***	10	50	1 1/2"	100	310	122	-	-	-	-
50	10	63	1 1/2"	116	283	97	-	-	-	-
65	10	75	1 1/2"	124	289	103	-	-	-	-
80	10	90	1 1/2"	142	297	111	2"	142	345	122
100	10	110	1 1/2"	165	307	121	2"	165	355	132
100	10	125	1 1/2"	181	314	128	2"	180	362	139
125	10	140	1 1/2"	200	322	136	2"	200	370	147
150	10	160	1 1/2"	218	332	146	2"	218	380	157
150	6	180	1 1/2"	260	342	156	2"	260	390	167
200	6	200	1 1/2"	260	352	166	2"	260	400	177
200	6	225	1 1/2"	290	365	179	2"	290	413	190
250	6	250	1 1/2"	320	377	191	2"	320	425	202
250**	10	280	1 1/2"	390	392	206	2"	390	440	217
300**	10	315	1 1/2"	400	410	224	2"	400	458	235

* Pipe outside diameter

** Only for HDPE-pipe PE 100

*** Bored 24 mm at DN 40

Valve tapping fitting with boring bit for PVC and HDPE pipes

Figure 8358 / 1", PN 10 / 6

Valve tapping fitting with boring bit for PVC and HDPE pipes

Outlet coupling for PE pipes 32 mm

Bored 31 mm***

For drinking water

Assembly and boring instructions AE 5162 **see supplement A-05.7**

- Combination boring bridge from PP and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)



Figure 8358 / 1¼", PN 10 / 6

Bored 31 mm***

For drinking water

Assembly and boring instructions AE 5162 **see supplement A-05.7**

- Combination boring bridge from PP and brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)

Technical dimensions

Figure 8358 / 1"

Figure 8358 / 1¼"

DN	PN	d2*	d1	b	h1	h2	d1
40***	10	50	1"	100	310	122	1 ¼"
50	10	63	1"	116	283	97	1 ¼"
65	10	75	1"	124	289	103	1 ¼"
80	10	90	1"	142	297	111	1 ¼"
100	10	110	1"	165	307	121	1 ¼"
100	10	125	1"	181	314	128	1 ¼"
125	10	140	1"	200	322	136	1 ¼"
150	10	160	1"	218	332	146	1 ¼"
150	6	180	1"	260	342	156	1 ¼"
200	6	200	1"	260	352	166	1 ¼"
200	6	225	1"	290	365	179	1 ¼"
250	6	250	1"	320	377	191	1 ¼"
250**	10	280	1"	390	392	206	1 ¼"
300**	10	315	1"	400	410	224	1 ¼"

* Pipe outside diameter

** Only for HDPE-pipe PE 100

*** Bored 24 mm at DN 40

Valve tapping fitting with boring bit for clamping PVC and HDPE pipes

Figure 8394 / 1 ½", PN 16

Valve tapping fitting with boring bit for clamping PVC and HDPE pipes

Outlet 1 ½" inside thread

Bored 24 mm

For drinking water

Assembly and boring instructions AE 4884 see supplement A-05.8

- Combination boring bridge from Composite Material and brass angle body valve

- All seals are suitable for drinking water and are KTW tested

- Angle body valve may be rotated through 360° owing to the double O-ring seals and allowing an optimal fit on the outlet pipe.
(domestic mains connection)

Valve tapping bridge "isiflo"

- Quick and simple assembly

- Reliable sealing system with flexible spring loading

- Sealing system that compensates for pipe deformation



Technical dimensions

Figure 8394 / 1 ½"

DN	d2*	d1	b	h1	h2
50	63	1 ½"			
65	75	1 ½"			
80	90	1 ½"	120	305	117
100	110	1 ½"	145	315	127
100	125	1 ½"			
125	140	1 ½"			
150	160	1 ½"			
150	180	1 ½"			
200	200	1 ½"			
200	225	1 ½"			
250	250	1 ½"			
250**	280	1 ½"			
300**	315	1 ½"			

* Pipe outside diameter

** Only for HDPE-pipe PE 100

Valve tapping fitting with boring bit for electro-fusion welding to HDPE pipes

Figure 8304 / 1 1/2", PN 16

Valve tapping fitting **without boring bit** for electro-fusion welding on HDPE pipes

Outlet 1 1/2" inside thread for boring and with **auxiliary installation valve 0041188H**

Bored 31 mm

For drinking water / waste water

Assembly and boring instructions AE 4884 **see supplement A-05.3**

- Combination fusion weld boring bridge from PE and with brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)

Figure 8305 / 1 1/2", PN 16

Valve tapping fitting **with boring bit** for welding on HDPE pipes

Outlet 1 1/2" inside thread

Bored 31 mm

For drinking water

Assembly and boring instructions AE 5163 **see supplement A-05.8**

- Combination fusion weld boring bridge from PE and with brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)



Technical dimensions

Figure 8304, 8305

DN	d2*	d1	b	h1	h2
50	63	1 1/2"	165	322	136
65	75	1 1/2"	163	328	142
80	90	1 1/2"	163	336	150
100	110	1 1/2"	163	346	160
100	125	1 1/2"	163	353	167
125	140	1 1/2"	163	361	175
150	160	1 1/2"	163	371	185
150	180	1 1/2"	163	381	195
200	200	1 1/2"	193	391	205
200	225	1 1/2"	193	403	217
250	250	1 1/2"	193	416	230
250**	280	1 1/2"	193	431	245
300**	315	1 1/2"	193	449	263

* Pipe outside diameter

** Attention: To weld on, use the TOP-Load tool 779.350.368 from Georg Fischer (GF) max. wall thickness **22.5 mm**

Valve tapping fitting with boring bit for electro-fusion welding to HDPE pipes

Figure 8359 / 1 ½", PN 16

Valve tapping fitting with boring bit for electro-fusion welding to HDPE pipes

Outlet HDPE insert end PE 100, Black -**DN25/pipe ø 32mm***

Bored 31 mm

For drinking water

Assembly and boring instructions AE 5163 **see supplement A-05.8**

- Combination fusion weld boring bridge (Version GF) from PE and with brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)



Figure 8359 / 1 ½", PN 16

Valve tapping fitting with boring bit for welding on HDPE pipes

Outlet HDPE insert end PE PE100, Black **DN32/ pipe ø 40mm***

Bored 31 mm, full throughput

For drinking water

Assembly and boring instructions AE 5163 **see supplement A-05.8**

- Combination fusion weld boring bridge (Version GF) from PE and with brass angle body valve
- All seals are suitable for drinking water and KTW tested
- Angle body valve may be rotated up to 45° left or right owing to the double O-ring seals and allowing an optimal fit on the outlet pipe. (domestic mains connection)

Technical dimensions

Figure 8359 / 1½"

DN	d2*	d1 (DN25/dR32)	d1 (DN32/dR40)	b	h1	h2
50	63	32	40	165	322	136
65	75	32	40	163	328	142
80	90	32	40	163	336	150
100	110	32	40	163	346	160
100	125	32	40	163	353	167
125	140	32	40	163	361	175
150	160	32	40	163	371	185
150	180	32	40	163	381	195
200	200	32	40	193	391	205
200	225	32	40	193	403	217
250	250	32	40	193	416	230
250**	280	32	40	193	431	245
300**	315	32	40	193	449	263

* Pipe outside diameter

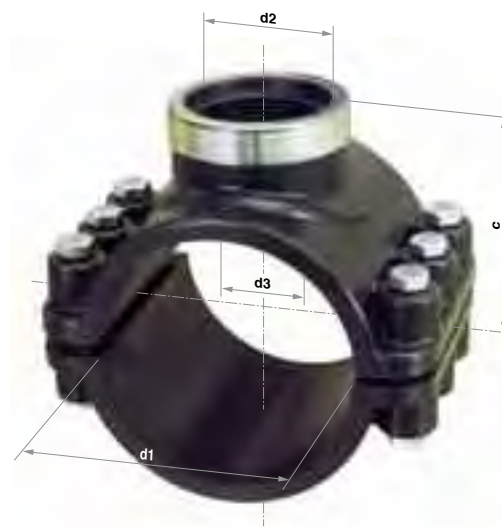
** Attention: To weld on, use the TOP-Load tool 779.350.368 from Georg Fischer (GF) max. wall thickness 22.5 mm

PP - Valve tapping fitting for PVC and HDPE pipes

Outlet 1½"

Figure 8362, PN 10

Valve tapping saddle	From PP with O-ring sealing
Hexagon head bolts	DIN 931 - A2 - 70
Hexagonal nuts	DIN 931 - A2 - 70 - MoS ₂ coated



Technical dimensions

DN	d1	d2	d3	c
40	50	1¼"	26	56
50	63	1½"	33	63
65	45	1½"	33	70
80	90	1½"	33	77
100	110	1½"	33	88
100	125	1½"	33	95
125*	140	2"	33	102
150	160	1½"	33	114

ELGEF® Plus electro-fusion welded connection saddle complete with underside

Figure 8363, PN 10 (Gas), PN 16 (Water)

Fusion welded saddle	From PE 100
Transition adapter	PE / Brass**
Pin contacts	4 mm

Indicator for completed fusion process

Technical dimensions

DN	d1	d2	d3
50	63	63	1½"
65	75	63	1½"
80	90	63	1½"
100	110	63	1½"
100	125	63	1½"
125	140	63	1½"
150	160	63	1½"
150	180	63	1½"
200	200	63	1½"
200	225	63	1½"
200	250	63	1½"



* Reduction piece 2" to 1½" on request

** Brass valves without transition adapter

Portrait Boring of valve tapping fittings

AE 5178/1



Boring procedure for valve tapping fittings

For cast iron, steel and cement pipes DN 65-400
and for PVC and PE pipes
(Valve tapping fitting without boring bit)

Boring device „Perfect 2“ (Co. Hütz), Connection G 1 ¼"

Inside thread
Part No.: 0041180H
Hütz- Part No.: 260/2

	Accessories	Auxiliary installation valves	Valve tapping fittings
Version 1	Threaded part G 1 ½" Part No.: 0041196H Hütz Order No.: 282505	Auxiliary installation valve for flushing Part No.: 0041188H Hütz Order No.: 283525 G 1 ½" Outside thread	Boring 31 mm Figure 8300 Figure 8304/1 ½" Figure 8302/1 ½"
Version 2	Threaded part with flushing valve W 2" Part No.: 0041181H Hütz Order No.: 282016 Adapter W 2" to 1 ½" LH Part No.: 0313094T	Auxiliary installation valve Part No.: 0041185H Hütz Order No.: 283606 G 2" Outside thread Auxiliary installation valve Part No.: 0041187H Hütz Order No.: 283405 G 1 ½" Outside thread	Boring 36 mm Figure 8309 Boring 31 mm Figure 8307
Version 3	Threaded part with flushing valve G 2" Part No.: 0041182H Adapter G 2" to W 2" Part No.: 0313096T Adapter G 2" to G 1 ½" LH Part No.: 0313097T	Auxiliary installation valve Part No.: 0041185H Hütz Order No.: 283606 G 2" Outside thread Auxiliary installation valve Part No.: 0041187H Hütz Order No.: 283405 G 2" Outside thread Auxiliary installation valve Part No.: 0041187H Hütz Order No.: 283405 G 1 ½" Outside thread	Boring 45 mm Figure 8308 Figure 8302 / 2" Figure 8304 / 2" Boring 36 mm Figure 8309 Boring 31 mm Figure 8307

Portrait Boring of valve tapping fittings

AE5178/2



Boring procedure for valve tapping fittings

For cast iron, steel and cement pipes DN 65-400

for PVC- and PE-pipes (Valve tapping fittings without boring bit)

EWE-Boring device G 1 1/2" AG LH outside thread

EWE-Order No: 6120014

G 1 1/2" AG LH

	Accessories	Auxiliary installation valve	Valve tapping fittings
Version 1	  Internal thread adapter G 1 1/2" LH to G 1 1/4" Part No.: 0313095T G 1 1/2" Outside thread LH G 1 1/4" Internal thread	Auxiliary shut off valve with flushing Part No.: 0041188H Hütz-Order No.: 283525  G 1 1/2" Outside thread	Boring 31 mm Figure 8300  Figure 8304/1 1/2"  Figure 8302/1 1/2" 
Version 2	Threaded part with flushing valve connect. G 2" Part No.: 0041182H  G 1 1/4" Outside thread G 2" Outside thread LH Adapter G2" to W2" Part No.: 0313096T  G 2" Internal thread LH W 2" Outside thread LH Adapter G2" to G 1 1/2 inch LH Part No.: 0313097T  G 2" Internal thread LH G 1 1/2" Outside thread LH	Auxiliary installation valve Part No.: 0041185H Hütz-Order No.: 28360  G 2" Outside thread Auxiliary installation valve Part No.: 0041187H Hütz-Order No.: 283405  G 1 1/2" Outside thread	Boring 45 mm Figure 8308  Figure 8302 / 2"  Figure 8304 / 2"  Boring 36 mm Figure 8309  Boring 31 mm Figure 8307 

Assembly and boring instructions for valve tapping fittings with auxiliary coupling valve

For cast iron, steel and cement pipes

DN 65 to 400 PN 16

For PVC- and HDPE-pipes

DN 40 to 300 PN 10 / 6

For HDPE-pipes

DN 50 to 300 PN 16

Figure 8300/8301/1

Figure 8302

Figure 8304

These instructions apply to the boring of cast iron, steel and cement pipes and are appropriate also for valve tapping fittings for PVC- and HDPE-pipes without boring bit (Boring bit „Perfect“ Gr. 2 available on request).

Photo 1

The valve tapping fitting is fixed vertically with the brace on the pipe to be bored.

The sealing surface on the pipe must be smooth and free from dirt and earth.

Torque M16: 90Nm

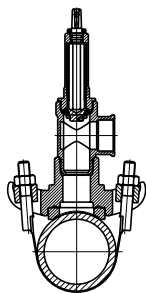


Photo 2

When possible, inspect the sealing surface between valve and pipe through the side outlet.

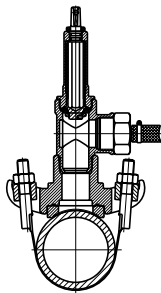


Photo 3

Screw out the valve insert. Attention: Left hand thread!!!

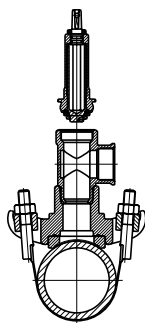


Photo 4

Replace the valve by screwing in the boring device with the adapter and boring bit.

Screw the connecting auxiliary valve in the side outlet and open completely.

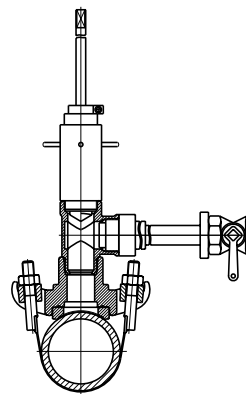


Photo 5

Boring in the usual manner (Follow the instructions for the boring device).

When boring water pipes, flush the swarf particles from the pipeline through the flushing attachment of the auxiliary valve.

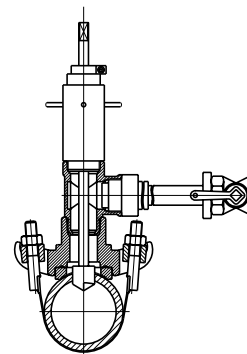


Photo 6

Screw the fully opened valve back into place (torque approx. 200 Nm) and tighten the locking nut

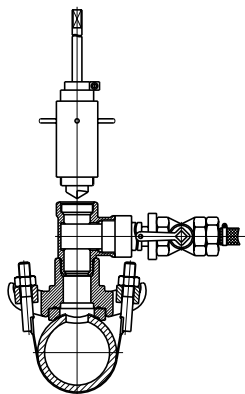


Photo 7

Screw the fully opened valve back in and assemble the locking nut

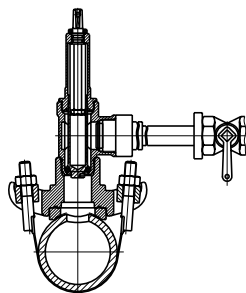


Photo 8

Open the auxiliary valve, close the valve tapping fitting and remove the auxiliary valve.

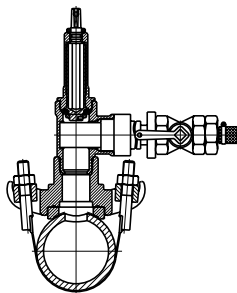
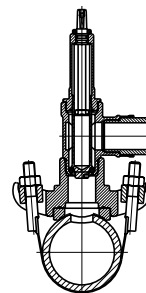


Photo 9

Connection of pipes for the mains connection with a threaded or welded coupling sleeve.



**Assembly and boring instructions
for valve tapping fitting for cast iron, steel and cement pipes
with auxiliary installation valve DN 65 to 400 PN16**

**Figure 8308/8301/1
Figure 8309/8301/1
Figure 8302
Figure 8304**

These instructions apply to the boring of cast iron, steel and cement pipes.

Photo 1

The valve tapping fitting is fixed vertically with the brace on the pipe to be bored .
The sealing surface on the pipe must be smooth and free from dirt and earth.

Torque M16: 90Nm

Photo 2

When possible, inspect the sealing surface between valve and pipe through the side outlet.

Photo 3

Screw out the valve insert. Attention: Left hand thread!!!

Photo 4

Screw in the boring device and flushing valve. Screw the auxiliary installation valve into the side and open fully so that the shut off ball sits in the housing of the auxiliary valve. Connect the hose to the flushing valve and open .

Photo 5

Boring in the usual manner (Follow the instructions for the boring device).
When boring water pipes, flush the swarf particles from the pipeline through the flushing attachment of the auxiliary valve.

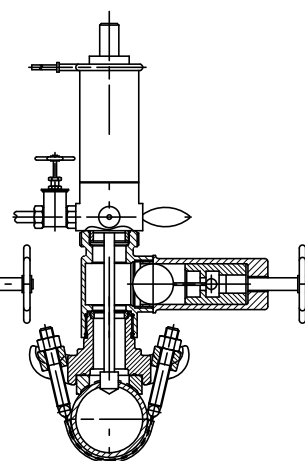
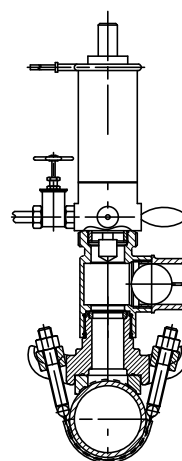
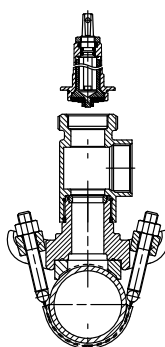
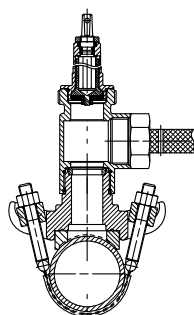
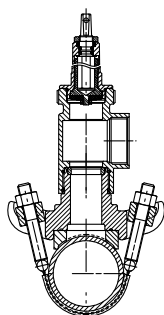


Photo 6

After boring and with the flushing valve still open, draw the boring bit fully to the top and push the auxiliary valve so that the shut off ball is pressed by the water pressure to the top and closes.

Photo 7

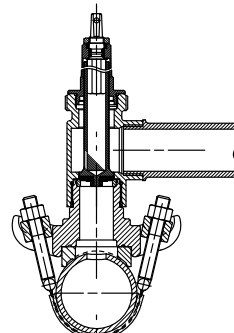
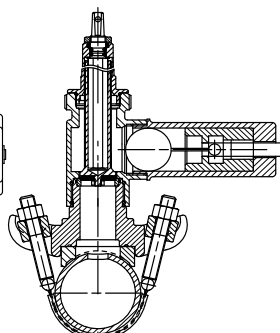
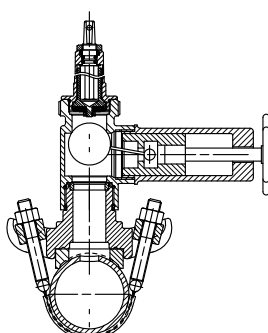
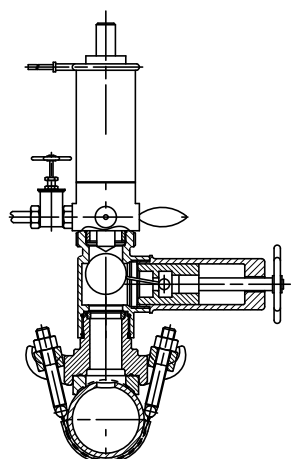
Screw the fully opened valve back in and tighten the locking nut.

Photo 8

Open the auxiliary valve, close the main valve and remove the auxiliary installation valve.

Photo 9

Connect the pipe with a threaded or a welded coupling .



Assembly and boring instructions for valve tapping fittings for cast iron, steel and cement pipes DN 65 to 400 PN 16 with auxiliary installation valve

Figure 8307/8301/1

These instructions apply to the boring of cast iron, steel and cement pipes.

Photo 1

The valve tapping fitting is fixed vertically with the brace on the pipe to be bored .
The sealing surface on the pipe must be smooth and free from dirt and earth.

Torque M16: 90 Nm

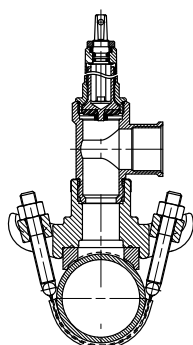


Photo 2

When possible, inspect the sealing surface between valve and pipe through the side outlet.

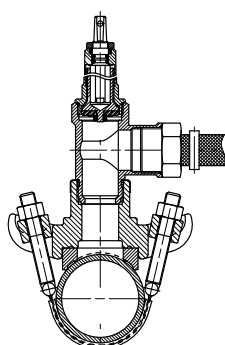


Photo 3

Screw out the valve insert. Attention: Left hand thread!!!

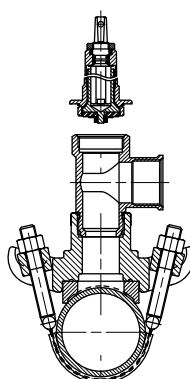


Photo 4

Screw in the boring device and flushing valve. Screw the auxiliary installation valve into the side and open fully . Connect the hose to the flushing valve and open .

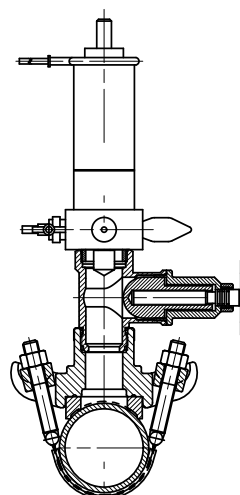


Photo 5

Boring in the usual manner (Follow the instructions for the boring device).
When boring water pipes, flush the swarf particles from the pipeline through the flushing attachment of the auxiliary valve.

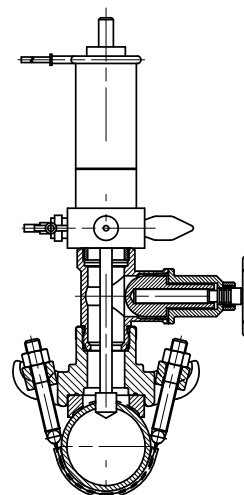


Photo 6

After boring, draw boring bit fully back, close the auxiliary valve and then remove the boring device.

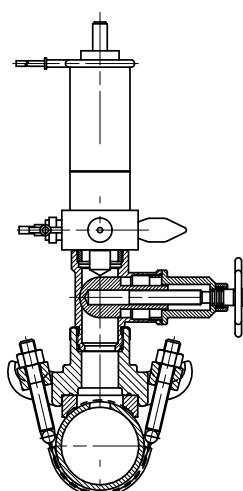


Photo 7

Screw the fully opened valve back in and tighten the locking nut

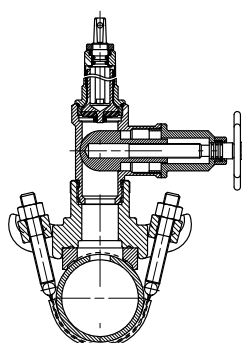


Photo 8

Completely open the auxiliary valve, close the valve tapping fitting and remove the auxiliary valve.

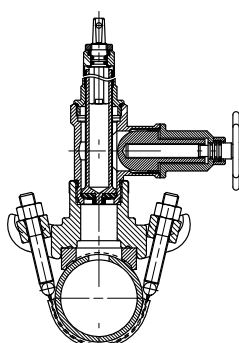
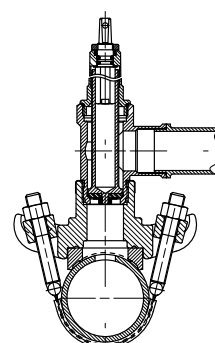


Photo 9

Connect the pipe with a threaded or a welded coupling.



Assembly and boring instructions for horizontal tapping saddle clamp with domestic mains gate valve

Figure 5981

These instructions apply to the boring of cast iron, steel and cement pipes.

Photo 1

The valve tapping fitting is fixed horizontally on the pipe to be bored with the brace. The sealing surface on the pipe must be smooth and free from dirt and earth.

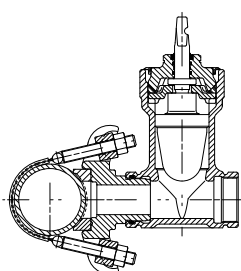


Photo 2

When possible, inspect the sealing surface between valve and pipe through the side outlet.

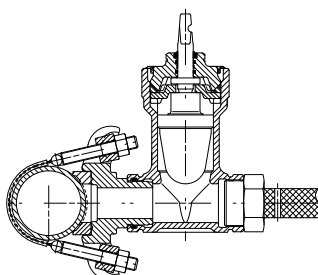


Photo 3

Screw in the offset piece with flushing valve and screwed in boring device. Open the mains gate valve completely. Connect the hose to the flushing valve.

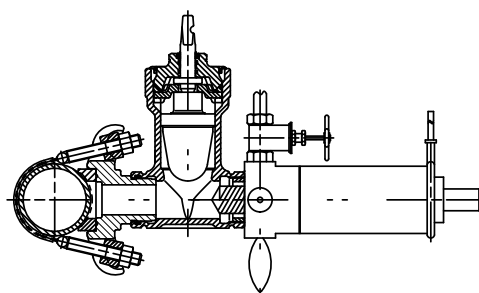


Photo 4

Boring in the usual manner (Follow the instructions for the boring device). **When boring water pipes, flush the swarf particles from the pipeline through the flushing attachment of the auxiliary valve.**

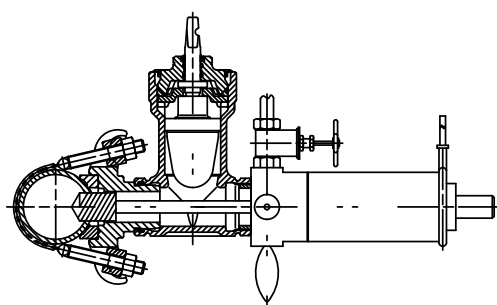


Photo 5

After boring, draw the boring bit fully back, close the auxiliary gate valve and then remove the boring device.

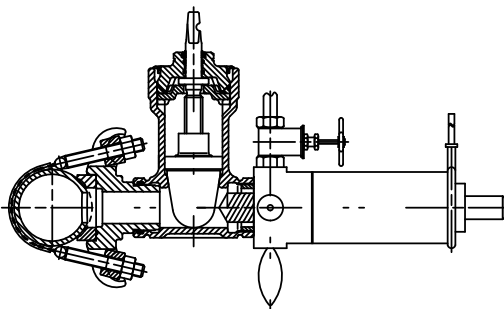
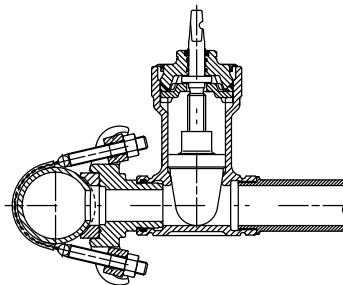


Photo 6

Connect the pipe with a threaded or a welded coupling.



**Assembly and boring instructions
for valve tapping fitting
with integrated boring bit for PVC and PE pipes**

**Figure 8303
Figure 8358**

Photo 1

The valve tapping fitting is fixed vertically with the brace onto the pipe to be bored with the boring bit drawn fully back.
The sealing surface on the pipe must be smooth and free from dirt and earth.
The tightening of the bolts must be carried out evenly on both sides until the upper and lower shells reach the stops.

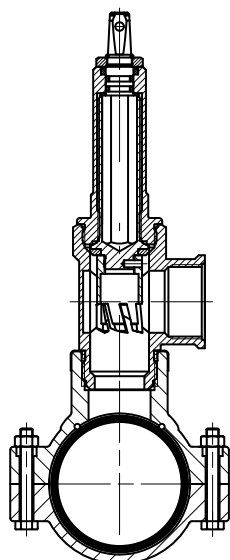


Photo 2

When possible, inspect the sealing surface between valve and pipe through the side outlet.

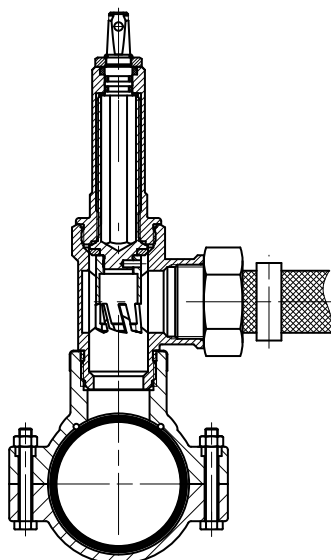


Photo 3

Connect the pipe with a threaded or a welded coupling.

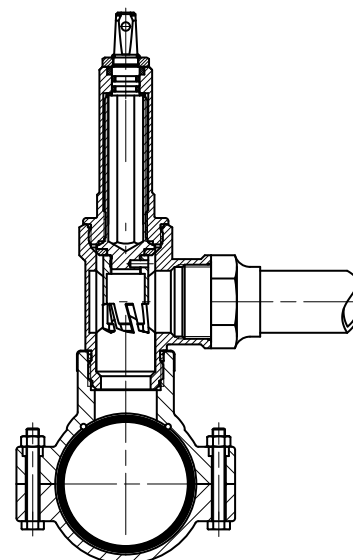


Photo 4

Set the valve assembly key onto the spindle and bore until the sealing seat is fully closed.
The disk from the hollow boring bit remains fixed in the bit by retaining barbs

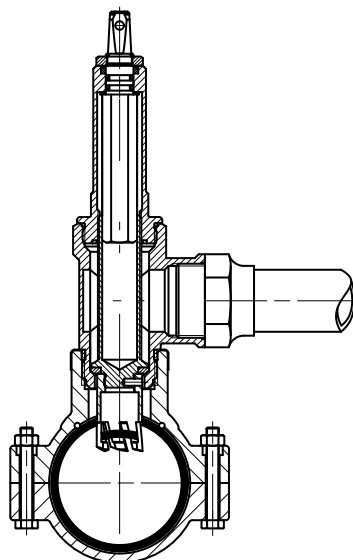
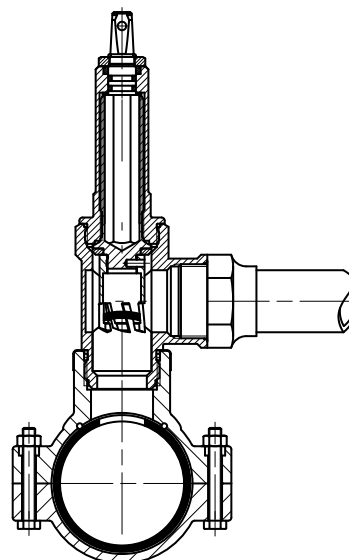


Photo 5

Open the valve, turn on the mains supply and inspect for leaks.



Assembly and boring instructions for valve tapping fitting with integrated boring bit on HDPE pipes

For electro-fusion
For electro-fusion
For clamping

Figure 8305
Figure 8359
Figure 8394

Photo 1

The valve tapping fitting is fixed vertically with the brace onto the pipe to be bored with the boring bit drawn fully back.
 The sealing surface on the pipe must be smooth and free from dirt and earth.
 The tightening of the bolts must be carried out evenly on both sides until the upper and lower shells reach the stops.

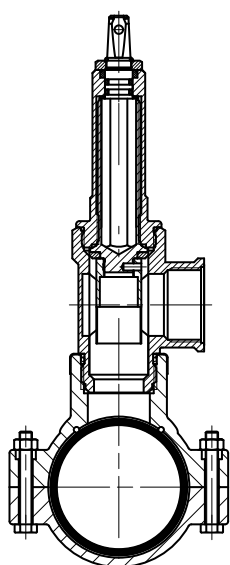


Photo 2

When possible, inspect the sealing surface between valve and pipe through the side outlet.

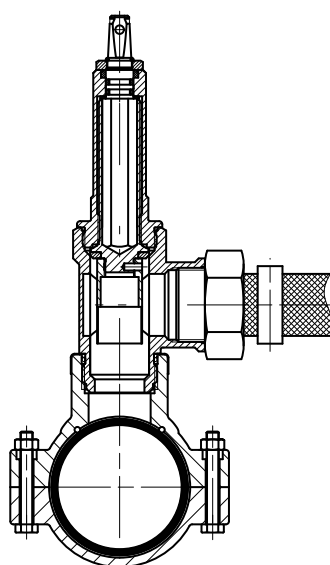


Photo 3

Connect the pipe with a threaded or fusion welded coupling.

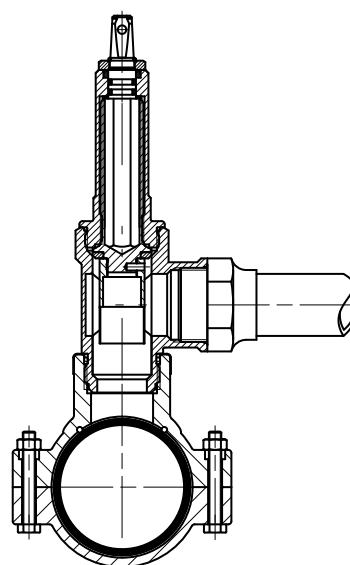


Photo 4

Set the valve assembly key onto the spindle and bore until the sealing seat is fully closed.
 The cut out disk remains in the hollow boring bit.

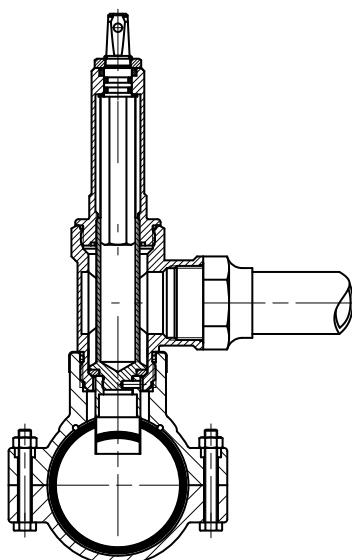
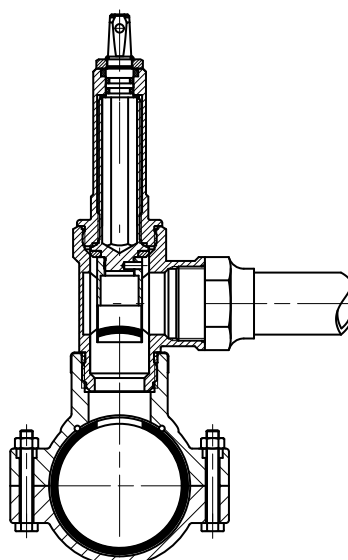


Photo 5

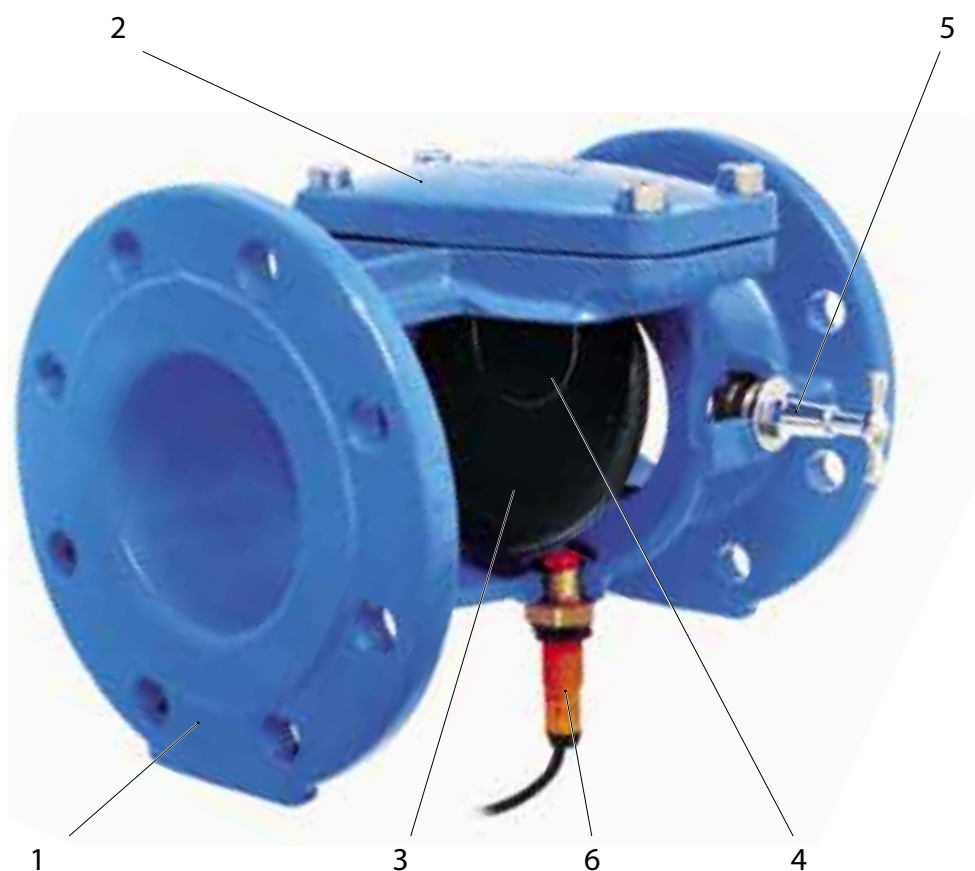
Open the valve, turn on the mains supply and inspect for leaks.





Non return valves

Non return valve 5000



Part	Name	Material	Notes
1	Housing	EN-GJS-500-7 (EN-JS1050)	Heavy duty anti-corrosive protection inside and outside EPOXY coating to GSK regulations min. 250 µm
2	Bonnet	EN-GJS-500-7 (EN-JS1050)	Heavy duty anti-corrosive protection inside and outside EPOXY coating to GSK regulations min. 250 µm
3	Shut off flap	ST37	Vulcanised with EPDM
4	Spring mechanism	X12CrNi17.7	Secondary heat treated
5	Bypass valve		
6	Sensor	Plastic housing	10-55V= or 20-250V~/=

Non return valves for drinking and waste water

General notes

The purpose of non return valves is to prevent a back flow of the medium in the event of an interruption to the supply. The valve is held in the open position by the flow pressure. The amount of opening is dependent on the rate of flow and in relation to the closing pressure of the spring mechanism or alternatively with a weighted mechanism. For a complete seal, a minimal pressure is required on the reverse side of approx. 0.2 bar, equivalent to a 2 m water column.

Non return spring loaded check valve 5000, Figure 5200

The non return mechanism is closed by the pressure of a spring. The check valves may be installed in a horizontal or a vertical column pipe and are used in cases where an abrupt back flow may occur. When installing the check valve, care must be taken that the hinged mechanism has been fitted in an absolutely horizontal position and the flange connection to the pipe work causes no undesirable tension.

Before commissioning, the pipes must be flushed through and a function / leak check must be carried out.

Non return swing check valve with closing weight 7226 / 7227 for waste water

When using the non return valve with a weighted closing mechanism, the force is a combination of the flap and the weighted lever. This version should be installed in all situations where the valve may be in a horizontal or a vertical column pipe and where an abrupt back flow may occur. Inspection is possible without disassembly of the non return mechanism.

Installation in all positions is possible with the weighted closing mechanism. When installing the check valve, care must be taken that hinged mechanism has been fitted in an absolutely horizontal position and the flange connection to the pipe work causes no undesirable tension. The moving parts can be fitted with protective elements (standard product or specially made) to cover them. Before commissioning the pipes must be flushed through and a function / leak check must be carried out. For the level control in reservoirs and when horizontally installed, the non return check valve may be used without additional weight.

Non return swing check valve 5000 Figure 5302 / 5303

The non return valve is closed by the pressure of the weighted mechanism. The positioning of the lever arm should be set so that the weight of the flap also closes when there is no pressure in the system. The weight is to be fixed to the outermost end of the lever. In especially critical cases (for example- when the flap disk flutters instead of closing properly) we advise fitting additional closing weights.

When installing the check valve, care must be taken that the hinged mechanism has been fitted in an absolutely horizontal position and the flange connection to the pipe work causes no undesirable tension. The moving parts can be fitted with protective elements (standard product or specially made) to cover them.

Before commissioning, the pipes must be flushed through and a function / leak check must be carried out.

Portrait	Non return valves		Medium	
	Non return spring loaded valve 5000 soft seal with flanges			
	Installation length DIN EN 558-1, Series 14 (F4)		Page 06.4	
		PN 16	Figure 5200	Water
	With additional sensor 10 - 55V=	PN 16	Figure 5203	Water
	With additional sensor 20 - 250V~/=	PN 16	Figure 5204	Water
	With additional manual opening mechanism	PN 16	Figure 5206	Water
	Non return spring loaded valve 5000 soft seal with flanges			
	Installation length DIN EN 558-1, Series 48 (F6)		Page 06.5	
		PN 16	Figure 5283	Water
	With additional sensor 10 - 55V=	PN 16	Figure 5284	Water
	With additional sensor 20 - 250V~/=	PN 16	Figure 5285	Water
	With additional manual opening mechanism	PN 16	Figure 5286	Water
	Non return swing check valve 5000			
	With lever arm and weight			
	Installation length DIN EN 558-1, Series 14 (F4)		Page 06.6	
		PN 10	Figure 5302	Water
		PN 16	Figure 5303	Water
	Non return swing check valve 5000 for waste water			
	With lever arm and weight			
	Installation length DIN EN 558-1, Series 48 (F6)		Page 06.7	
		PN 10	Figure 7226	Water and waste water
		PN 16	Figure 7227	Water and waste water

Non return spring loaded valve 5000 soft seal with flanges

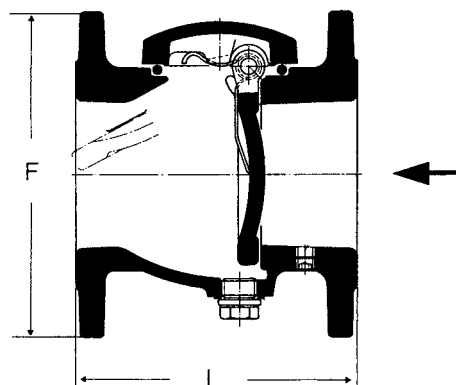


Figure	Medium	Design
Figure 5200	Drinking water, oil free air and waste water	Thick EPOXY coating Installation length DIN EN 558- 1. series 14 (F4) Flange PN 16 to DIN 2501
Figure 5203	Drinking water, oil free air and waste water	With additional pump protection sensor 10 - 55V =
Figure 5204	Drinking water, oil free air and waste water	With additional pump protection sensor 20 - 250V ~/=
Figure 5206	Drinking water, oil free air and waste water	With additional manual opening mechanism*

Technical dimensions

PN 10/16. EN-GJS-500-7

Nominal width DN	Installation length L mm	Flange F mm	Manuel opening mechanism**				Weight	
			B mm	C mm	D mm		Figure 5200 kg	Figure 5206 kg
40	140	150	150	86	144		6.5	7.0
50	150	165	155	88	144		8.0	8.5
65	170	185	165	89	144		10.5	11.0
80	180	200	175	93	144		12.5	13.0
100	190	220	185	98	144		15.5	16.0
125	200	250	195	100	144		19.5	20.0
150	210	285	205	108	144		23.5	24.0

* The manual opening mechanism can only be supplied assembled with the non return mechanism.

The lever can only be operated up to a maximum backpressure of 2 bar

** See drawing Page 06.5

Non return spring loaded valve 5000 soft seal with flanges

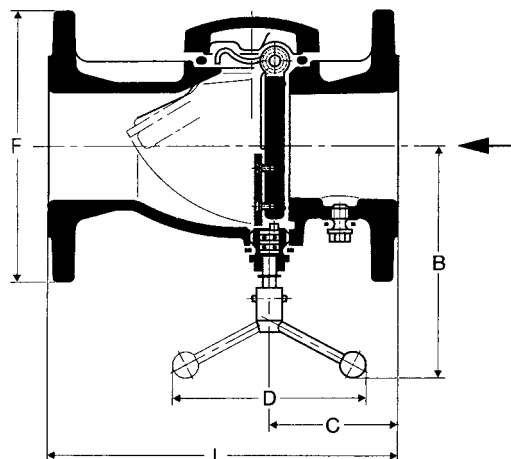


Figure	Medium	Design
Figure 5283	Drinking water, oil free air	Thick EPOXY coating Flange PN 16 to DIN 2501 Installation length DIN EN 558- 1, series 48 (F6)
Figure 5284	Drinking water, oil free air	With additional pump sensor 10 - 55V =
Figure 5285	Drinking water, oil free air	With additional pump sensor 20 - 250V ~/=
Figure 5286	Drinking water, oil free air	With additional manual opening mechanism*

Technical dimensions

PN 10/16, EN-GJS-500-7

Nominal width DN	Installation length L	Flange F	Dimensions of manual opening mechanism			Weight Figure 5283	Weight Figure 5286
	mm	mm	B	C	D	kg	kg
40	180	150	150	86	144	7.5	8.0
50	200	165	155	88	144	8.5	9.0
65	240	185	165	89	144	12.0	12.5
80	260	200	175	93	144	14.0	14.5
100	300	220	185	98	144	17.0	17.5
125	350	250	195	100	144	24.0	24.5
150	400	285	205	108	144	30.0	30.5

* The manual opening mechanism can only be supplied assembled with the non return mechanism.
The lever can only be operated up to a maximum backpressure of 2 bar.

Non return swing check valves 5000 with lever arm and weight

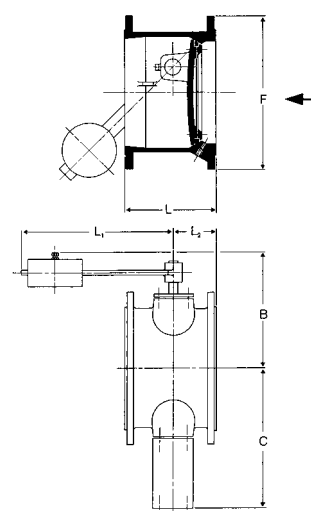


Figure	Medium	Design
Figure 5302	Drinking water, waste water and oil free air	With lever arm and weight Thick EPOXY coating Flange PN 10 to DIN 2501 Installation length DIN EN 558-1, Series 14 (F4)
Figure 5303	Drinking water, waste water and oil free air	With lever arm and weight Thick EPOXY coating Flange PN 16 to DIN 2501 Installation length DIN EN 558-1, Series 14 (F4)

Technical dimensions

PN 10/16, EN-GJS-400-15

Nominal width	Installation length	Flange	Radius		Lever length		Radius of closing disk*	Weight
DN	L mm	F mm	B mm	C mm	L1 mm	L2 mm	mm	kg
200	230	340	294	220	395	95	22	50.0
250	250	400	324	252	450	105	50	82.0
300	270	455	368	285	450	125	87	90.0
400	310	565	410	390	450	145	138	190.0
500	350	670	490	440	500	165	190	240.0
600	390	780	555	500	600	185	240	360.0

* In the open position the closing disk extends beyond the housing flange of the outlet side.

Non return swing check valve with lever arm and weight

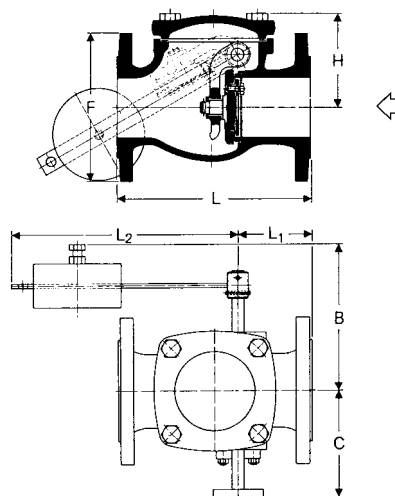


Figure	Medium	Design
Figure 7226	Oil free air, cold and warm water, waste water	With lever arm and weight, hot dip galvanised Installation length DIN EN 558-1, Series 48 (F6) Flange PN 10 to DIN 2501
Figure 7227	Oil free air, cold and warm water, waste water	With lever arm and weight, hot dip galvanised Installation length DIN EN 558-1, Series 48 (F6) Flange PN 10 to DIN 2501

Technical dimensions

PN 10/16, GG 25

Nominal width	Installation length	Flange	Installation height	Radius		Lever length		Weight
DN	L mm	F mm	H mm	B mm	C mm	L1 mm	L2 mm	kg
40*	180	150	95	175	-	70	200	11.0
50*	200	165	95	175	-	79	200	12.0
65	240	185	115	190	135	92	200	18.0
80	260	200	135	200	145	95	305	25.0
100	300	220	145	205	160	103	305	34.0
125	350	250	160	220	170	121	305	46.0
150	400	285	185	275	185	141	395	68.0
200	500	340	220	315	215	173	395	100.0
250	600	405	270	345	260	196	450	170.0
300	700	460	300	375	290	231	450	240.0

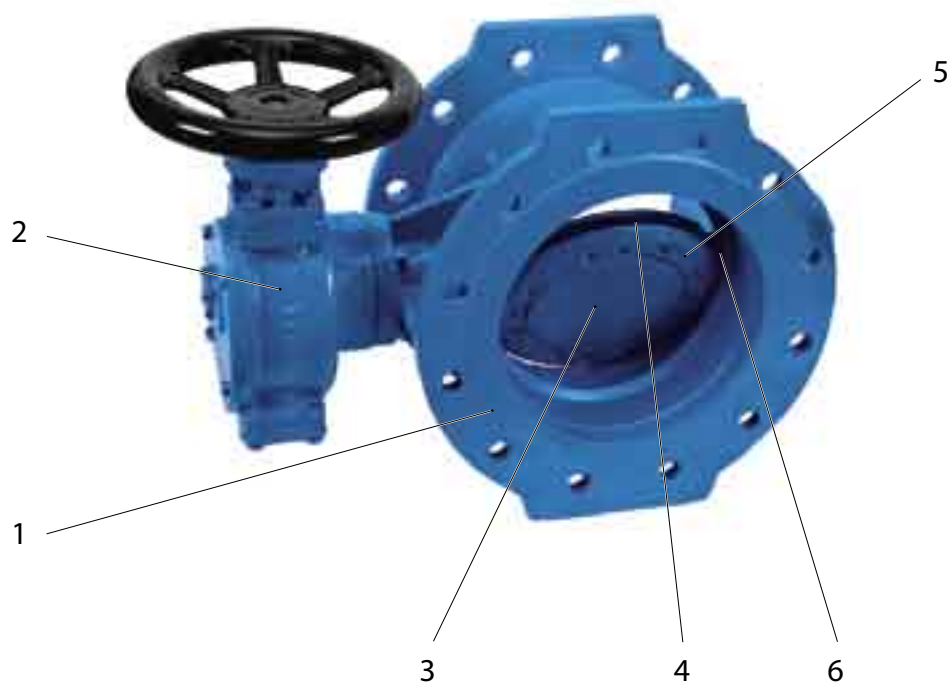
* Can not be delivered with pump protection contact.



Butterfly shut off valves

Portrait	Butterfly shut off valves		Medium	
	Butterfly shut off valves with double eccentric bearing to DIN 3354/2			
	Installation length DIN EN 558-1, Series 14 (F4)		Page 07.4	
	EPOXY coating	PN 10	Figure 8342	Water
	EPOXY coating	PN 16	Figure 8343	Water
	Enamel	PN 10	Figure 8340	Water
	Enamel	PN 16	Figure 8341	Water
	Between flanges butterfly shut off valve BV10			
	Soft seals			
	Installation length DIN EN 558-1, Series 20 (K1)		Page 07.7	
		PN 10/16	Figure 8352	Water 110°C
	Between flanges and end butterfly shut off valve BV12			
	Soft seals			
	Installation length DIN EN 558-1, Series 20 (K1)		Page 07.8	
		PN 10/16	Figure 8357	Water 110°C

Butterfly shut off valves with double eccentric bearing



Part	Name	Material	Notes
1	Housing	EN-GJS-400-15 (EN-JS 1030)	Heavy duty anti-corrosive protection with inside and outside EPOXY coating to GSK regulations min. 250 µm (by request inside enamel, outside EKB coated)
2	Drive		Self retaining with mechanical position indication and hand wheel and/or electro-drive (pneumatic drive on request)
3	Butterfly shut off valve	EN-GJS-400-15 (EN-JS 1030)	Heavy duty anti-corrosive protection to GSK regulations min. 250 µm
4	Sealing ring	EPDM	Profile sealing ring
5	Press segment	Stainless steel	Fixed to gate with cheese head screws
6	Stainless steel shaft	Stainless steel	min. 13 % Chrome

Butterfly shut off valves with double eccentric bearing

General notes

Butterfly shut off valves are primarily for OPEN – CLOSED operation situations. For use as a regulating valve only in special situations. The regulated pressure difference is approximately 1 to 3 bars according to nominal diameter. The valves are turned to the right to close and to the left to open. Opening and closing the shut off gate with a forked hand wheel or pipe extension is not permitted.

Special features

- EKB - The EPOXY resin plastic coating produces a thick corrosion protection which allows the shut off valves to be employed in demanding environments.
- Enamel - Owing to the inside enamel coating, an extremely effective corrosion protection is maintained.

Operational conditions

The valves are intended for the following scope:

Nominal pressure: 10/16 bar (from DN 600 max. 10 bar)

Temperature: up to 70° C

Medium: Drinking water

Acid, alkaline and aggressive mediums with alternative shaft seals

Nominal Width DN	Flange width to DIN EN1092	Water pressure tested		certified opera- ting pressure bar
		Housing bar	Final bar	
200 -1200	PN 16	150	86	6,5
200 - 500	PN 10	155	88	8,0

Installation and operation

The shut off valves may be installed horizontally or vertically. When horizontally installed, the spindle must always point upwards. When installing the shut off valve care must be taken that at the flange connection to the pipe work no undesirable tension occurs. To prevent premature wear, the shut off valve must always be completely opened or closed (no partial opening). According to DVGW guidelines for pressures from 10 bar, steel reinforced seals must be used.

Service

The shut off valves generally require no servicing and may be buried in the earth. The spindle is protected against dirt from outside by an additional sealing ring.

Applications

The presented valves are designed to be suitable for drinking water, air (oil free) and drainage. All parts receive corrosion protective treatment that guarantees decades of reliable use in the system.

Butterfly shut off valves with double eccentric bearing

Special designs for shut off valves

- For waste water and other mediums according to the customers specifications
- Electric, pneumatic or hydraulic drives are available
- Viton – option on request
- For transformer oil on request

Approved

- D- DVGW – Registration for water – shut off valves
- D- DVGW – Registration for gas – shut off valves

Inspection

Valves for water to DIN 3230, part 4, valves for gas to DIN 3230, part 5
Test certification to EN 10204 by customer request

Technical data

max. operating temperature	-5° C to +70° C
Resistance values	$\zeta = 0.1$ to 0.3 in either direction
Serial number	to DIN EN EN19

Operational equipment

- Telescopic installation set for shut off valves
- Hand wheels coated black to DIN 3220

Recycling

Our valves and fittings are made from recyclable materials.

Butterfly shut off valves with double eccentric bearing

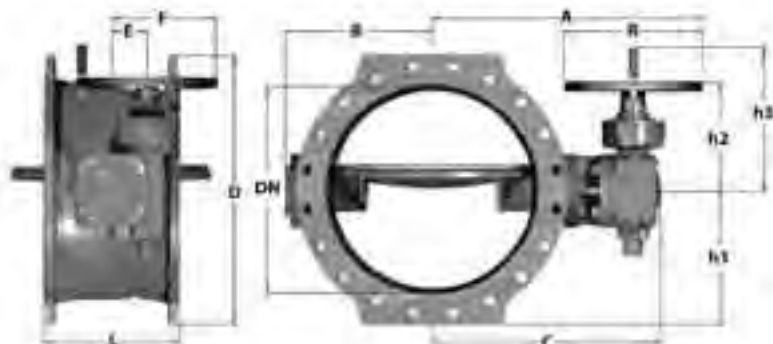


Figure	Medium	Design
Figure 8342	Drinking water, oil free air and waste water	Thick EPOXY coated Installation length DIN EN 558- 1, Series 14 (F4) Flange PN 10 to DIN 2501
Figure 8343	Drinking water, oil free air and waste water	Thick EPOXY coated Installation length DIN EN 558- 1, Series 14 (F4) Flange PN 16 to DIN 2501
Figure 8340	Drinking water, oil free air and waste water	Inside enamel, outside EKB coated Installation length DIN EN 558- 1, Series 14 (F4) Flange PN 16 to DIN 2501
Figure 8341	Drinking water, oil free air and waste water	Inside enamel, outside EKB coated Installation length DIN EN 558- 1, Series 14 (F4) Flange PN 16 to DIN 2501

Technical dimensions

PN 10, EN-GJS-400-15

DN	A mm	B mm	C mm	D mm	E mm	F mm	h1 mm	h2 mm	h3 mm	L mm	R mm	Turns to open	Weight kg
200	405	180	320	340	40	170	170	155	195	230	250	12-13	55,0
250	445	205	365	400	63	190	200	170	210	250	250	12-13	95,0
300	515	230	410	455	63	240	230	180	210	270	315	13-14	125,0
350	550	270	440	505	63	240	260	180	210	290	315	13-14	145,0
400	650	280	500	565	80	280	390	180	320	310	400	30-32	195,0
500	715	365	585	670	100	300	335	290	380	350	400	30-32	265,0
600	780	425	650	780	100	300	390	290	380	390	400	30-32	360,0
700	787	510	676	895	125	329	443	300	450	430	400	53-55	585,0
800	840	560	730	1015	125	325	510	300	450	470	400	53-55	738,0
900	904	628	793	1115	125	325	553	300	450	510	400	53-55	995,0
1000	1090	680	980	1230	160	360	615	470	510	550	400	53-55	1285,0
1200	1365	825	1225	1455	200	450	730	560	690	630	500	108-110	2120,0

PN 16, EN-GJS-400-15

DN	A mm	B mm	C mm	D mm	E mm	F mm	h1 mm	h2 mm	h3 mm	L mm	R mm	Turns to open	Weight kg
200	405	180	320	340	40	165	170	155	195	230	250	12-13	55,0
250	445	205	365	400	63	190	200	170	210	250	250	12-13	95,0
300	515	230	410	455	80	240	230	180	210	270	315	13-14	125,0
350	550	270	440	520	80	240	260	180	210	290	315	13-14	150,0
400	650	280	500	580	100	300	290	230	320	310	400	30-32	200,0
500	750	380	620	715	125	325	360	260	350	350	400	30-32	310,0

Between flanges butterfly shut off valve

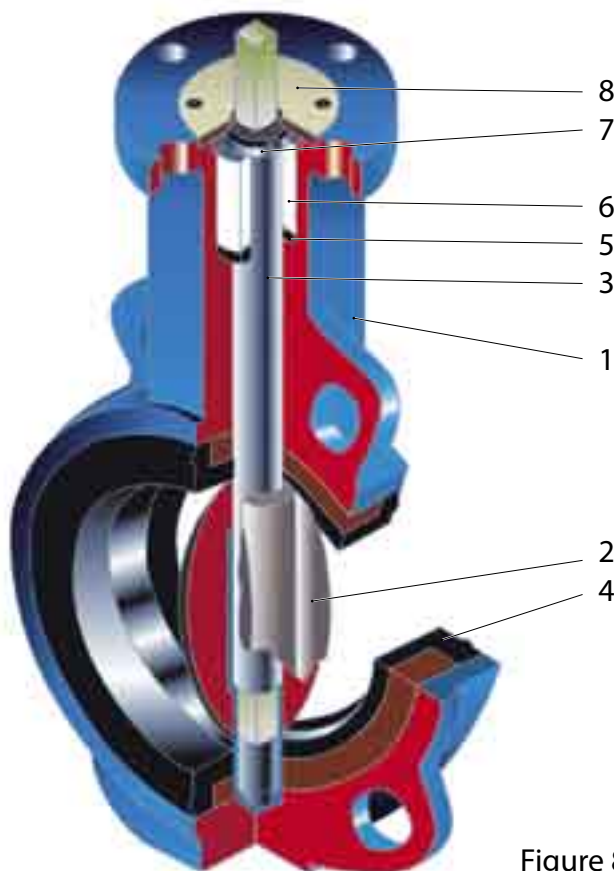


Figure 8352

Part	Name	Material	Notes
1	Housing	GG25 (Figure 8352) EN-JS1030 -GGG40 (Figure 8357)	Corrosion protection coating inside and outside with EPOXY to GSK regulations min. 250 µm
2	Gate valve	Stainless steel 1.4408	
3	Spindle	Stainless steel 1.4401	
4	Seal	EPDM	
5	O-Ring	EPDM	
6	Bush	Polyamide	
7	Circlip	1.4310	
8	Pressure plate	1.1172-Zink coated	

Between flanges and end butterfly shut off valve

General notes

Butterfly shut off valves are primarily for OPEN – CLOSED operation in plant installations. They are soft sealing using an EPDM collar in the housing which also provides the seal between the flange faces.

Figure 8303 (Type BV 10) Between flanges flat design with 4 fixing points

Figure 8357 (Type BV 12) End valve flange with threaded lugs

Technical specification

- Central bearing of the butterfly
- Version with long neck
- Continuous spindle to "Anti blow-out system"
- Installation length DIN EN 558-1, Series 20 (K1), BS5155, ISO 5752, API 609
- Installation between flanges to EN 1092 PN6/ PN10/ PN16, ANSI B16.5 class 150
- Exchangeable seat ring with hard core – Type "Back-up"
- Delivered with lever, gearbox or electric drive

Operational conditions

The "between flanges shut off" is intended for the following uses:

Nominal pressure: DN 32 - DN 150 16 bar
 DN 200 - DN 500 10 bar

Temperature: -20° C to 110° C

Medium: Drinking water, hot and cold water, waste water, salt water and other
 mediums on request

Installation and operation

The between flanges shut off valves may be installed horizontally or vertically.

When installing, pay particular attention that no unwanted tension occurs in the assembly. To prevent premature wear, the valve must always be completely opened or closed (no partial opening).

Service

The valves generally require no servicing.

Applications

The valves in the presented configuration are suitable for the above named mediums. All parts receive corrosion protection treatment that guarantees decades of reliable use in the system.

Between flanges and end shut off butterfly valves

Technical Description

Installation: The between flange shut off valves are mounted between the flanges of the pipe line with full length hexagonal head threaded bolts (A2). They may also be installed as end valves.

Please note

that it is very important to avoid tension in the assembly despite the robust housing. For the later installation (retrofitting) of between flanges shut off valves, sufficient distance between the flanges must be provided to avoid a damage to the flange seals (on the outside rim of the collar) .

Figure 8352

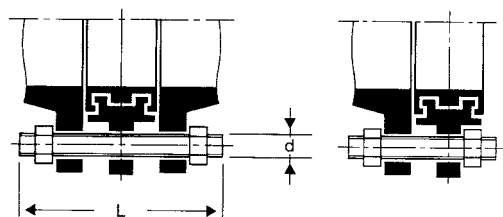
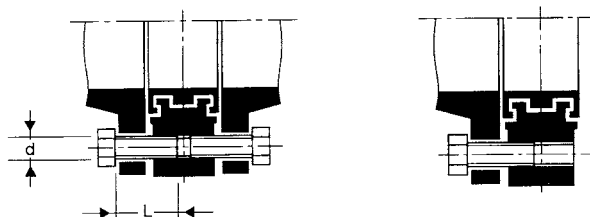


Figure 8357

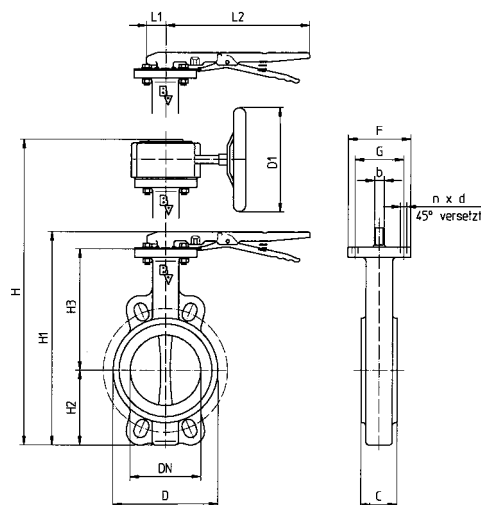


Nominal width	Figure 8352	PN10	PN16		Figure 8357	PN10		Figure 8357	PN16	
	PN 10/16				PN10			PN16		
DN	Threaded Bolts				Threaded Bolts			Threaded Bolts		
	Quantity	d max	d max	L	Quantity	d max	L	Quantity	d max	L
		mm	mm	mm		mm	mm		mm	mm
50	4	M16	M16	120	4	M16	35	4	M16	35
65	4	M16	M16	120	4	M16	40	4	M16	40
80	4	M16	M16	120	8	M16	40	8	M16	40
100	4	M16	M16	130	8	M16	40	8	M16	40
125	4	M16	M16	130	8	M16	45	8	M16	45
150	4	M20	M20	150	8	M20	45	8	M20	45
200	4	M20	M20	150	8	M20	45	12	M20	45
250	4	M20	M24	170	12	M20	55	12	M24	55
300	4	M20	M24	170	12	M20	60	12	M24	60
400	4	M24	M27	210	16	M24	75	16	M27	75
500	4	M24	M27	230	20	M24	80	20	M27	80

KV- Values in l/ sec.

DN	Opening angle							
	90°	80°	70°	60°	50°	40°	30°	20°
50	40	32	20	14	9	5	3	1,4
65	70	55	36	25	15	9	5	2,4
80	110	90	57	38	24	14	8	4,0
100	180	145	94	63	40	23	12	6,0
125	320	255	165	110	70	40	25	10,0
150	470	375	245	165	105	60	35	15,0
200	790	630	410	275	175	100	55	25,0
250	1250	1000	650	440	275	155	85	40,0
300	1800	1440	935	630	395	225	125	60,0
400	3080	2465	1600	1080	680	390	215	105,0
500	5200	4160	2705	1820	1145	655	365	175,0

Between flanges shut off butterfly valve



Figure

Medium

Design

Figure 8352 (Type BV10)

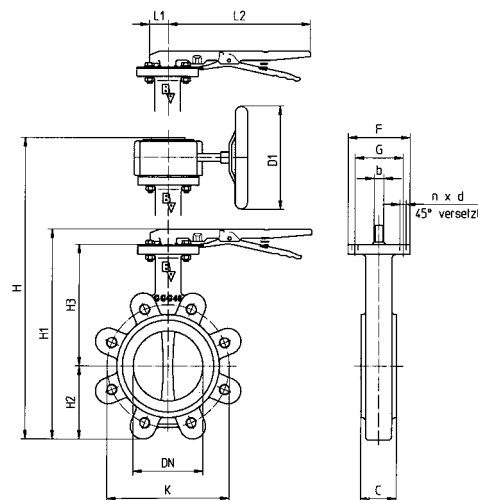
Drinking water 110° C

- Ring housing with 4 fixing points to install between flanges to DIN 2501
- PN10** (Wafer design)
- Installation length DIN EN 558-1, Series 20 (K1)
- Inspection to DIN 3230
- Single piece housing, GG25 EPOXY-coating

Technical dimensions

Nominal width DN	Flange D mm	Hand wheel diameter D1 mm	Construction height					Width					Weight with lever kg
			H mm	H1 mm	H2 mm	H3 mm	L1 mm	L2 mm	C mm	F mm	G mm	b mm	
32	75	-	-	225	58	141	28	185	33	90	F05-50/F07-70	11	2,6
40	82	-	-	225	58	141	28	185	33	90	F05-50/F07-70	11	2,8
50	97	100	251	230	65	140	28	185/260	43	90	F05-50/F07-70	11	3,0
65	109	100	271	250	72	153	28	185/260	46	90	F05-50/F07-70	11	3,5
80	126	100	298	277	94	158	28	185/260	46	90	F05-50/F07-70	11	4,0
100	152	125	342	311	108	176	28	185/260	52	90	F07-70	14	5,5
125	182	125	369	332	120	191	28	185/260	56	90	F07-70	14	7,3
150	207	125	397	364	136	203	28	185/260	56	90	F07-70	14	8,8
200	262	200	482	447	165	244	45	350	60	150	F10-102	17	15,8
250	317	200	548	513	202	273	45	350	68	150	F10-102	22	21,8
300	373	315	619	580	235	311	45	350	78	150	F12-125	27	30,8
400	484	265	844	-	302	375	only with drive		105	175	F14-140	48	80,0
500	589	315	1008	-	362	450	only with drive		130	210	F16-165	58	145,5

Between flanges and end shut off butterfly valve



Figure

Medium

Design

Figure 8357 (Type BV12)

Drinking water 110°C

- Ring housing with cast on threaded lugs for installing between flanges or as end outlet to 2501 **PN10** (LUG design)
- Installation length DIN EN 558-1, Series 20 (K1)
- Inspection to DIN 3230
- Single piece housing, EN-GJS-400-15 EPOXY coated

Technical dimensions

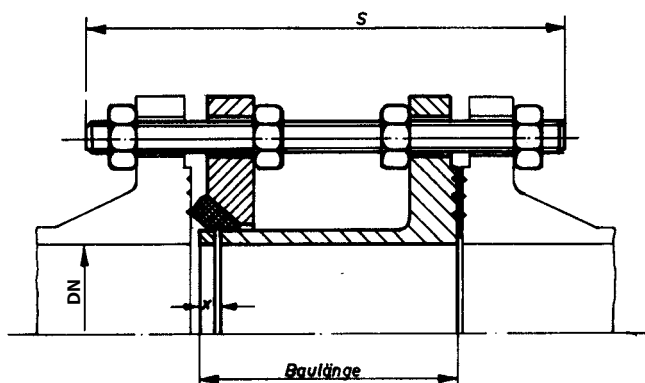
Nominal width	Pitch circle of bolt holes	Hand wheel diameter	Construction height							Weight with lever			
DN	K mm	D1 mm	H mm	H1 mm	H2 mm	H3 mm	L1 mm	L2 mm	C mm	F mm	G mm	b mm	kg
50	125	100	251	233	65	140	28	185/260	43	90	F05-50/F07-70	11	4,1
65	145	100	271	253	72	153	28	185/260	46	90	F05-50/F07-70	11	4,7
80	160	100	298	280	94	158	28	185/260	46	90	F05-50/F07-70	11	6,3
100	180	125	342	312	108	176	28	185/260	52	90	F07-70	14	7,8
125	210	125	369	339	120	191	28	185/260	56	90	F07-70	14	10,0
150	240	125	397	367	136	203	28	185/260	56	90	F07-70	14	12,0
200	295	200	482	447	165	244	45	350	60	150	F10-102	17	19,8
250	350	200	548	513	202	273	45	350	68	150	F10-102	22	30,0
300	400	315	619	584	235	311	45	350	78	150	F12-125	27	44,0
400	515	265	844	-	302	375	only with drive		105	175	F14-140	48	113,0
500	620	315	1008	-	362	450	only with drive		130	210	F16-165	58	215,0



Adjustable length pipe couplings

Portrait	Adjustable length pipe couplings		Medium	
	Adjustable length pipe coupling Type PA		Page 08.2	
	DN 50 - 600	PN 16	Figure 8435	Water
	DN 200 - 600	PN 10	Figure 8434	Water
	Adjustable length pipe coupling Type PO		Page 08.3	
	DN 50 - 600	PN 16	Figure 8431	Water
	DN 200 - 600	PN 10	Figure 8430	Water
	Adjustable length pipe coupling Type PF		Page 08.4	
	DN 50 - 600	PN 16	Figure 8433	Water
	DN 200 - 600	PN 10	Figure 8432	Water

Adjustable length pipe coupling Type PA



Figure

Medium

Design

Drinking water and
waste water

Steel RSt 37.2. Galvanised.
Thick EPOXY coating
with galvanised nuts and threaded bar

Figure 8434

Flange PN 10 to DIN 2501

Figure 8435

Flange PN 16 to DIN 2501

Technical description:

Adjustable length pipe couplings Type PA are built to withstand axial load on the pipeline. The short installation length allows only limited clearance for removal (See table clearance for removal X) and therefore a relatively exact assembly in the pipeline is necessary.

Technical dimensions

PN 10/16, Steel RSt 37.2

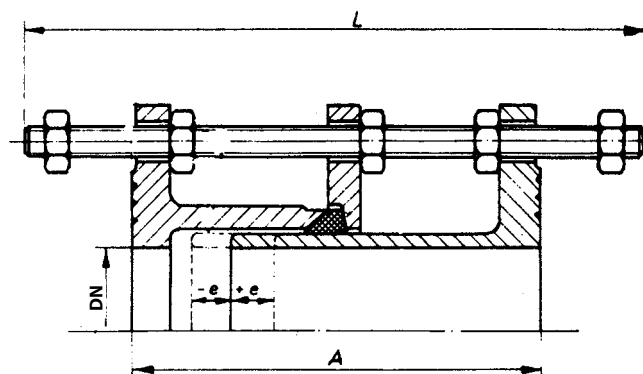
Figure 8434

Nominal width	Installation in mid-position	Clearance for removal	Number of bolts	Bolt length	Weight
DN	L mm	X mm		S mm	kg
40	100	8	4	180	5.5
50	100	8	4	180	6.0
65	100	8	4	180	7.5
80	100	8	8	180	9.0
100	100	8	8	180	13.0
125	100	10	8	180	17.0
150	100	10	8	195	21.0
200	100	10	8	195	29.0
250	110	10	12	215	38.0
300	110	10	12	215	46.0
350	120	10	16	215	57.0
400	120	10	16	230	72.0
450	120	10	20	230	80.0
500	120	10	20	230	90.0
600	120	10	20	240	120.0

Figure 8435

Installation in mid-position	Clearance for removal	Number of bolts	Bolt length	Weight
L mm	X mm		S mm	kg
100	8	4	175	5.5
100	8	4	175	6.0
100	8	4	175	7.5
100	8	8	175	9.0
100	8	8	175	13.0
100	10	8	175	17.0
100	10	8	195	21.0
100	10	12	195	29.0
120	10	12	225	44.0
120	10	12	225	55.0
130	10	16	250	77.0
130	10	16	250	98.0
130	10	20	250	122.0
150	10	20	285	156.0
150	12	20	300	222.0

Adjustable length pipe coupling Type PO



Figure

Medium

Drinking water and
waste water

Design

Steel RSt 37.2.;Galvanised
Thick EPOXY coating with
galvanised nuts and threaded bar

Figure 8430

Figure 8431

Flange PN 10 to DIN 2501

Flange PN 16 to DIN 2501

Technical description:

Adjustable length pipe couplings Type PA are built to withstand axial load on the pipeline and have been designed according to the results from real installation situations.

Technical dimensions

PN 10/16; Steel RSt 37.2

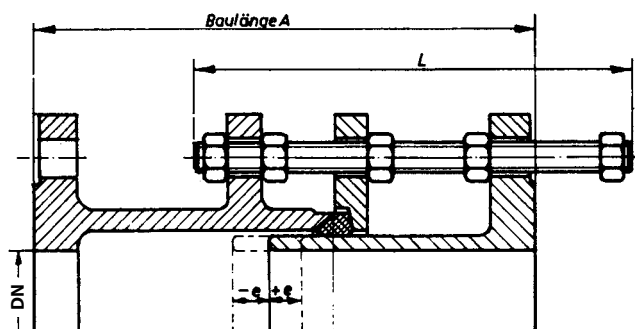
Figure 8430

Nominal width	Installation in mid- position	Adjustment range +/- e	Number of bolts	Bolt length L	Weight
DN	A mm	mm		mm	kg
40	180	25	4	280	8.0
50	180	25	4	280	10.0
65	180	25	4	280	12.0
80	200	25	8	310	16.0
100	200	25	8	310	20.0
125	200	25	8	310	25.0
150	200	25	8	320	34.0
200	220	25	8	340	48.0
250	220	25	12	360	65.0
300	220	25	12	360	72.0
350	230	25	16	360	94.0
400	230	25	16	370	122.0
450	250	25	20	390	140.0
500	260	25	20	390	162.0
600	260	25	20	410	205.0

Figure 8431

Installation in mid- position	Adjustment range +/- e	Number of bolts	Bolts length L	Weight
L mm	mm		mm	kg
180	25	4	280	8.0
180	25	4	280	10.0
180	25	4	280	12.0
200	25	8	310	16.0
200	25	8	310	20.0
200	25	8	310	25.0
200	25	8	320	34.0
220	25	12	340	48.0
230	25	12	370	74.0
250	25	12	410	92.0
260	25	16	410	126.0
270	25	20	430	162.0
270	25	20	430	190.0
280	25	20	460	240.0
300	25	20	480	330.0

Adjustable length pipe coupling Type PF



Figure

Medium

Drinking water and
waste water

Design

Steel RSt 37.2, Galvanised
Thick EPOXY coating with
galvanised nuts and threaded bar

Figure 8432

Flange PN 10 to DIN 2501

Figure 8433

Flange PN 16 to DIN 2501

Technical description:

Adjustable length pipe couplings Type PF are built to resist axial load and have been designed according to the results from real installation situations. When installing in the short position, the thread bar may be shortened.

Technical dimensions

PN 10/16. Steel RSt 37.2

Figure 8432

Nominal width DN	Installation in mid- position A mm	Adjustment range +/- e mm	Number of bolts	Bolt length L mm	Weight kg
40	300	25	4	250	11.0
50	300	25	4	250	13.0
65	300	25	4	250	16.0
80	300	25	8	250	21.0
100	300	25	8	250	27.0
125	300	25	8	250	34.0
150	350	25	8	290	51.0
200	350	25	8	290	62.0
250	350	25	12	290	88.0
300	350	25	12	290	100.0
350	350	25	16	290	124.0
400	375	25	16	320	160.0
450	375	25	20	320	176.0
500	375	25	20	320	202.0
600	400	25	20	340	268.0

Figure 8433

Installation in mid- position L mm	Adjustment range +/- e mm	Number of bolts	Bolt length L mm	Weight kg
300	25	4	250	11.0
300	25	4	250	13.0
300	25	4	250	16.0
300	25	8	250	21.0
300	25	8	250	27.0
300	25	8	250	34.0
350	25	8	290	51.0
350	25	12	290	64.0
375	25	12	320	102.0
375	25	12	320	116.0
425	25	16	350	162.0
425	25	16	350	204.0
425	25	20	350	232.0
450	25	20	380	312.0
475	25	20	400	416.0



Accessories

Accessories

General notes

The valves and fittings available are supplemented by an extensive range of accessories. These accessories are so arranged that they do justice to all requirements and ensure easy operation.

Special features

Telescopic installation set

- The telescopic installation set for the gate valve AWP 2001 SL is secured in position by a threaded protection sleeve from resistant plastic, this avoids the need for a dowel.
- A vertical installation of the telescopic installation set is guaranteed and so the need for repeated alignment corrections while compacting the earth may be avoided.
- Through colour recognition (blue or yellow) the medium (gas or water) in the pipe line is recorded.

Handwheel:

- The handwheels are formed from sheet metal or cast and EPOXY powder dip coated. They are recognised for their reduced weight and ergonomic form.

Other operating aids:

- In addition to the listed operating aids we also offer every type of extension or angled drive.

Applications

Access covers should be positioned centrally so that the operation of the gate valve or hydrant is unhindered.

For the underground hydrants it is important to take note that the internal parts can be serviced or replaced.

Portrait

Accessories Gate valve

Medium



Telescopic installation set
For Gate valve AWP 2001 SL

Page 09.3
Figure 8324



Telescopic installation set
For Gate valve 5000

Page 09.3
Figure 8325



Telescopic installation set
For valve tapping fittings and
domestic mains gate valve

Page 09.4
Figure 8326



Key C DIN 3223
For underground hydrants / Gate valve

Page 09.4
Figure 8317

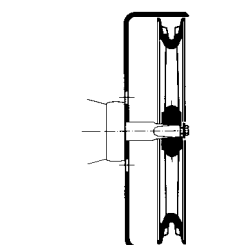
Key E DIN 3223
For valve tapping fittings

Page 09.4
Figure 8318



Hand wheel
For Gate valve 5000 / 2001

Page 09.5
Figure 8316



**Chain drive sprocket
and chain guides**
For Gate valve 5000 / 2001

Page 09.5
Figure 6885/90

Portrait	Accessories Gate valve	Medium	
	Column access covers to DIN 4055 for hydrants	Page 09.6 Figure 8320	Water
	Base plate to DIN 19720 for column access covers hydrant		
	Surrounding plate for column access covers hydrant		
	Column access covers to DIN 4056 for gate valve with the letter cast in the cover W water or A waste water	Page 09.6 Figure 8321	Water (W) Waste water(A)
	Base plate to DIN 19720 for column access covers hydrant		
	Surrounding plate for column access covers gate valve		
	Column access covers to DIN 4057 for valve tapping fittings	Page 09.7 Figure 8322	Water Gas
	Base plate to DIN 19720 for column access cover gate valve		
	Surrounding plate for column access cover gate valve		
	Column access covers to DIN 4058 for gate valve	Page 09.7 Figure 8323	Gas
	Base plate to DIN 19720 for column access cover gate valve		
	Surrounding plate for column access cover gate valve (Gas)		
	Column for hand wheel	Page 09.8 Figure 8383	
	Column for electric drive	Page 09.8 Figure 8384	

Telescopic installation set for gate valve AWP 2001 SL

Figure 8324

Telescopic installation set for Gate valve AWP 2001 SL
For connection without location dowels, stepless height adjustment, with medium recognition, protection tube bell end with inside thread.

Comprises:

Protection tube and bell end	HDPE
Key rod	RSt- 2, Galvanized
Connecting sleeve and square head protector	GT 35-10, Galvanized
Cotter pin, spring and dowel:	Stainless steel

Technical dimensions

Nominal width DN	Pipe covering in m			
	0,9-1,2	1,0-1,5	1,3-1,8	1,7-2,7
40/50	x	x	x	x
65/80	x	x	x	x
100/150	x	x	x	x
200	x	x	x	x
250/300	x	x	x	x



Telescopic installation set for gate valve 5000

Figure 8325

Telescopic installation set for gate valve 5000
Stepless height adjustment

Comprises:

Protection tube and bell end	HDPE
Key rod	RSt- 2, galvanized
Connecting sleeve and Square head protector	GT 35-10, galvanized
Cotter pin, spring and dowel:	Stainless steel

Technical dimensions

Nominal width DN	Pipe covering in m			
	0,9-1,2	1,0-1,5	1,3-1,8	1,7-2,7
40/50	x	x	x	x
65/80	x	x	x	x
100/150	x	x	x	x
200	x	x	x	x
250/300	x	x	x	x



Telescopic installation set for valve tapping fittings and domestic mains gate valves

Figure 8326

Telescopic installation set for valve tapping fittings
and domestic mains gate valve
stepless variable height adjustment

Comprises:

Protection tube bell end

Key rod

Connecting sleeve

Cotter pin, spring and dowel

Grit sealing ring

HDPE

RSt- 2, galvanized

GT 35-10, galvanized

Stainless steel

HDPE



Technical dimensions

Pipe covering:	1,00 m	to	1,50 m
	1,15 m	to	1,95 m
	1,70 m	to	2,70 m

Key C, Key E

Figure 8317

Key C-DIN 3223

For underground hydrant / gate valve with square head 32

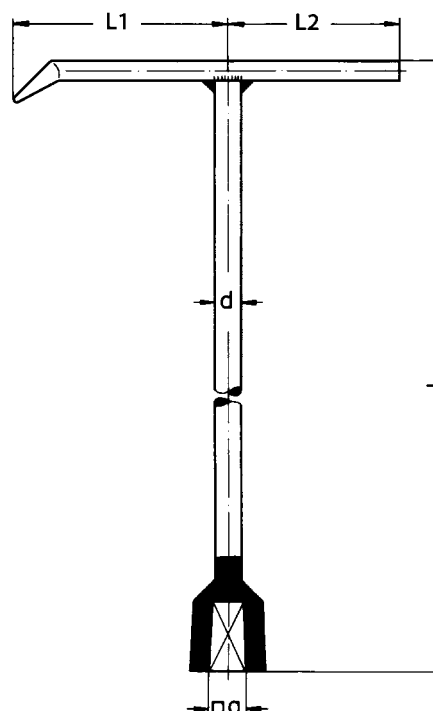
Figure 8318

Key E – DIN 3223

For valve tapping fittings / gate valve with square head 14

Technical dimensions

Figure	Key DIN 3223	Square socket a mm	Length			ø d mm
			L mm	L1 mm	L2 mm	
8317	C	32	1100	220	200	24
8318	E	14,7	750	170	150	16

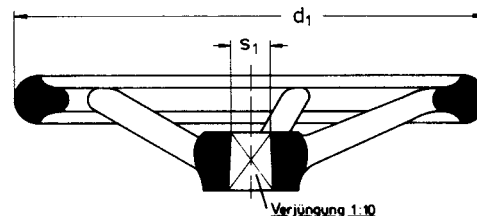


Hand wheel

Figure 8316

Hand wheel
For gate valve 5000 / 2001 SL

Sheet metal, offset crank
EKB coating, black RAL 9005



Technical dimensions

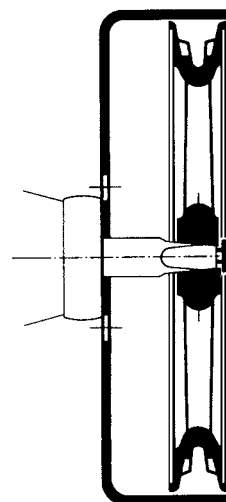
DN	d1 mm	s1 mm
25 - 32	160	12
40 - 50	200	14
65 - 80	250	17
100 - 150	315	19
200	400	24
250	400	27
300	500	27

Chain drive sprocket and chain guides for gate valve

Figure 6885 / 6890

Chain drive sprocket and chain guides
for gate valve 5000 / 2001 SL

Chain drive sprocket GG 25 DIN 1691
Chain guides St 37



Technical dimensions

DN	Nr.	Pitch diameter mm	Spindle- Square head mm
40 - 50	20	167	14
65 - 80	30	262	17
100 - 150	39	357	19
200	49	452	24
250 - 300	49	452	27

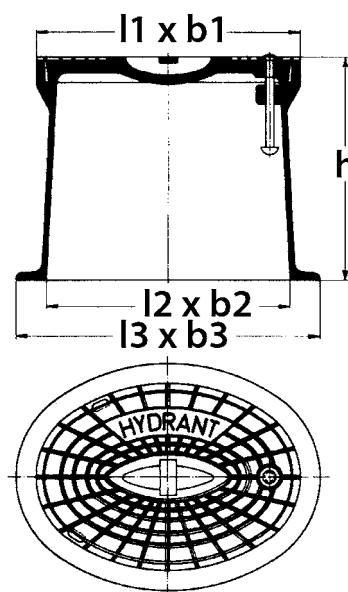
Column access covers

Figure 8320

Column access covers DIN 4055 (U)
for underground DN 80
from GG 20 DIN 1691

Technical dimensions

$l_1 \times b_1$ mm	$l_2 \times b_2$ mm	$l_3 \times b_3$ mm	h mm
367 x 262	340 x 235	420 x 315	310



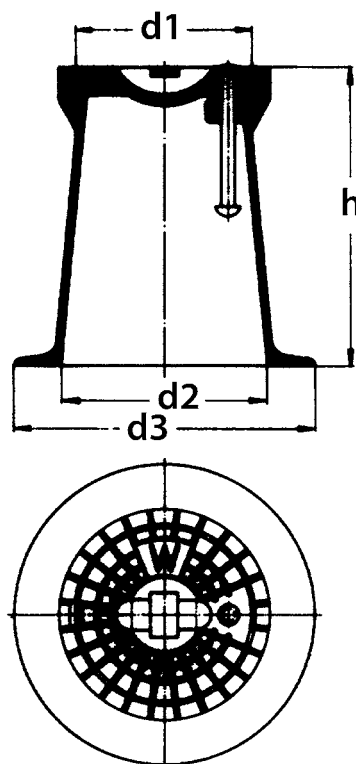
Column access covers

Figure 8321

Column access covers DIN 4056
for Gate valve - Water (W)
- Waste water (A)
from GG 20 DIN 1691

Technical dimensions

d1 mm	d2 mm	d3 mm	h mm
161	157	140	270

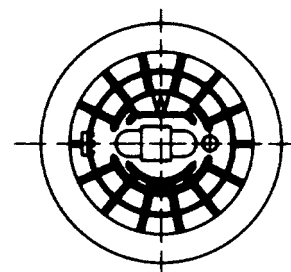
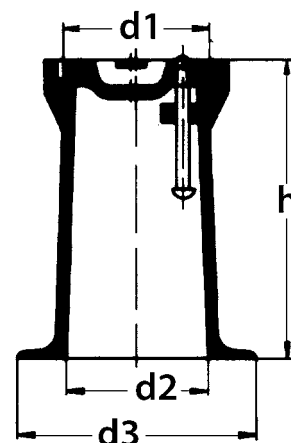


Column access covers

Figure 8322

Column access covers DIN 4057
for valve tapping fittings - Water
- Gas

From GG 20 DIN 1691



Technical dimensions

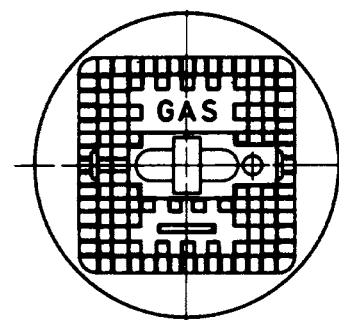
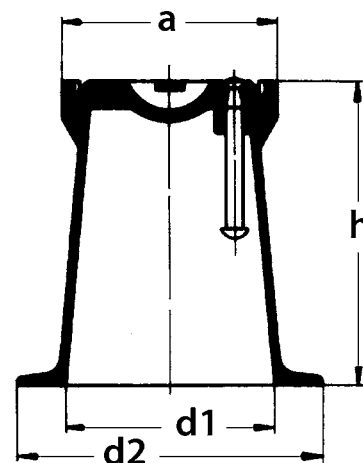
d ₁ mm	d ₂ mm	d ₃ mm	h mm
121	120	200	250

Column access covers

Figure 8323

Column access covers DIN 4058
for gate valve - Gas

From GG 20 DIN 1691



Technical dimensions

a mm	d ₁ mm	d ₂ mm	h mm
190	185	270	270

Spindle extension support column

Figure 8383

Column extension to hand wheel

Figure 8384

Column extension to electric drive

Technical dimensions

DN	Figure- Nr.	Connection flange	Height mm	Base plate mm
40 - 300	8383	-	800	270 x 270
40 - 65	8384	F07	800	270 x 270
80 - 150	8384	F10	800	270 x 270
200 - 300	8384	F14	800	270 x 270





Flanged pipe couplings

Pipe couplings

General notes

Pipe couplings from ductile cast iron are primarily used in water supply plant.

They are according to ISO-Standard 2531 and EN 545.

The pipe couplings are coated inside and outside with thick EPOXY (EWS – powder dip coating).

Blue RAL 5005 to DIN 30677 min. 250 µm.

Portrait	Pipe couplings for water and gas			Medium
	Flanged T piece	PN 10	Page 10.3 Figure 8373	Water Gas
	Flanged bend with base	PN 10	Page 10.3 Figure 8371	Water Gas
	Flanged bend		Page 10.4	
	Flange bend 22°	PN 10	Figure 8375	Water Gas
	Flange bend 45°	PN 10	Figure 8375	Water Gas
	Flange bend 90°	PN 10	Figure 8375	Water Gas
	Flanged pipes		Page 10.5	
	Double flanged	PN 10	Figure 8370	Water Gas
	Single flange	PN 10	Figure 8376	Water Gas
	Flanged pipe reducing piece	PN 10	Page 10.6 Figure 8372	Water Gas
	Blind flanges	PN 10	Page 10.6 Figure 8377	Water Gas

Portrait	Pipe couplings for water and gas	Medium
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Flanged- insert coupling sleeve

PN 10

Page 10.7
Figure 8374

Water

Flanged- threaded coupling sleeve

PN 10

Page 10.7
Figure 8379

Water

Pipe couplings

T

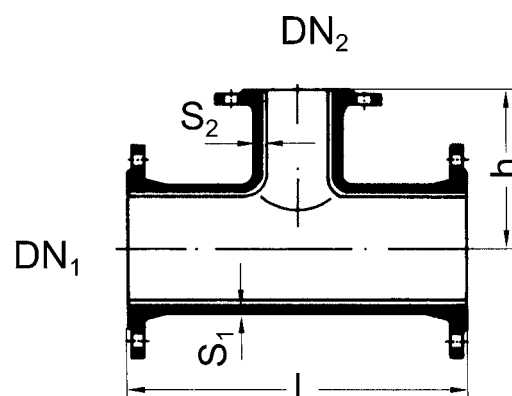
Figure 8373, PN 10

Flanges - T

EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN1/DN2	s1 mm	s2 mm	L mm	h mm	Weight kg
125 - 100	8.8	8.4	400	195	12.5
50 - 50	-	-	300	150	13.6
80 - 50	8.1	8.1	330	165	16.0
80 - 80	8.4	7.7	330	180	18.6
100 - 80	8.4	8.1	360	175	19.4
100 - 100	8.4	8.4	360	180	23.0
125 - 80	8.8	8.1	400	190	24.0
150 - 80	9.1	8.1	440	205	29.0
150 - 100	9.1	8.4	440	210	29.5
150 - 125	9.1	8.8	440	215	31.0
150 - 150	9.1	9.1	440	220	32.0
200 - 80	9.8	8.1	520	235	42.0
200 - 100	9.8	8.4	520	240	43.0
200 - 150	9.8	9.1	520	250	46.0
200 - 200	9.8	9.8	520	260	49.5
250 - 80	10.5	8.1	700	265	67.5
250 - 100	10.5	8.4	700	275	68.0
250 - 150	10.5	9.1	700	300	72.0
250 - 200	10.5	9.8	700	325	76.5
250 - 250	10.5	10.5	700	350	83.0
300 - 80	11.2	8.1	800	290	93.5
300 - 100	11.2	8.4	800	300	94.0
300 - 150	11.2	9.1	800	325	98.0
300 - 200	11.2	9.8	800	350	102.0
300 - 300	11.2	11.2	800	375	117.0



Pipe couplings

N

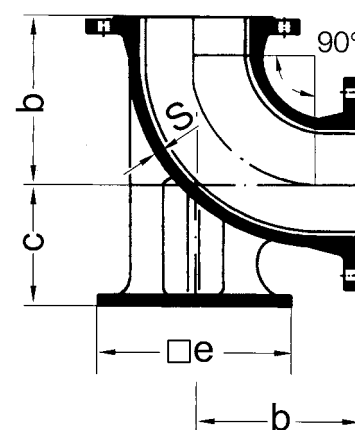
Figure 8371, PN 10

Flange bend
with base

EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN	s mm	b mm	c mm	e mm	Weight kg
80	7.0	165	110	180	13.0
100	7.2	180	125	200	16.8
150	7.8	220	160	250	29.5
200	8.4	260	190	300	46.0
250	9.0	350	225	350	73.5
300	9.6	400	255	400	104.0



Pipe couplings

FFK 22°

Figure 8375, PN 10

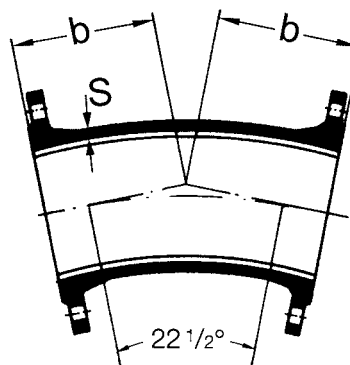
Flange bend 22°

EN-GJS-400-15

Thick EPOXY coating

Technical dimensions

DN	s mm	b mm	Weight kg
80	7.0	130	9.5
100	7.5	140	11.9
150	7.8	160	19.7
200	8.4	180	29.0
250	9.0	210	41.5
300	9.6	255	60.0



Pipe couplings

FFK 45°

Figure 8375, PN 10

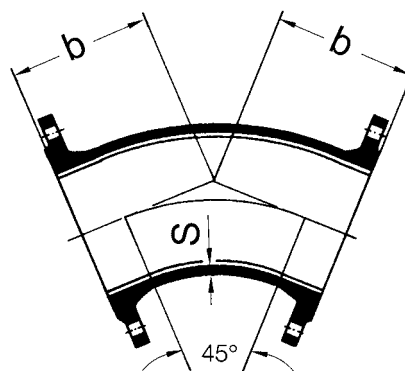
Flange bend 45°

EN-GJS-400-15

Thick EPOXY coating

Technical dimensions

DN	s mm	b mm	Weight kg
80	7.0	130	9.1
100	7.2	140	11.4
150	7.8	160	18.7
200	8.4	180	27.5
250	9.0	350	55.0
300	9.6	400	76.5



Pipe couplings

Q

Figure 8375, PN 10

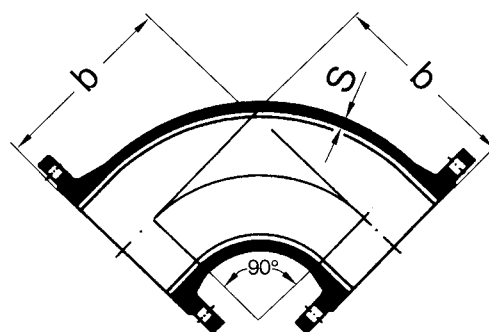
Flange bend 90°

EN-GJS-400-15

Thick EPOXY coating

Technical dimensions

DN	s mm	b mm	Weight kg
80	7.0	165	9.5
100	7.2	180	11.9
150	7.8	220	20.5
200	8.4	260	31.0
250	9.0	350	50.0
300	9.6	400	70.0



Pipe couplings double flanged

FF

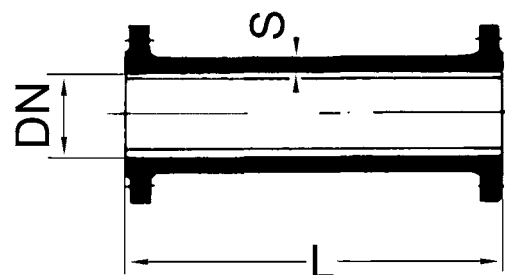
Figure 8370, PN 10

Flanged pipes

EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN	s mm	L mm	Weight kg
80	7.0	100	8.2
80	7.0	150	8.7
80	7.0	200	9.2
80	7.0	250	9.8
80	7.0	300	10.5
80	7.0	500	12.9
80	7.0	800	17.0
80	7.0	1000	19.0
100	7.2	100	8.3
100	7.2	150	9.3
100	7.2	200	9.8
100	7.2	250	11.0
100	7.2	300	12.0
100	7.2	400	13.8
100	7.2	500	14.3
100	7.2	800	20.5
100	7.2	1000	21.7
125	7.8	400	17.0
150	7.8	150	14.0
150	7.8	200	15.5
150	7.8	300	16.0
150	7.8	400	21.0
150	7.8	500	20.3
150	7.8	1000	31.3
200	8.4	400	29.5
200	8.4	500	28.7
200	8.4	1000	43.7



Pipe couplings single flange

F

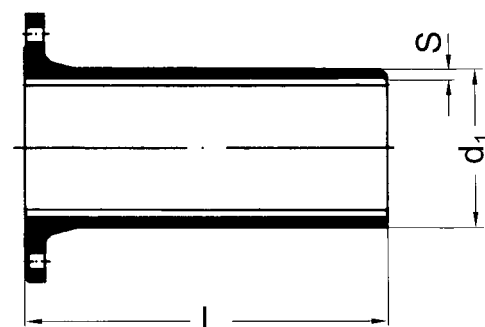
Figure 8376, PN 10

Flange and male insert

EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN	d1 mm	s mm	L mm	Weight kg
80	98	7.0	350	7.8
100	118	7.2	360	9.7
125	144	7.5	370	12.5
150	170	7.8	380	15.5
200	222	8.4	400	23.0



Pipe couplings double flanged reduction

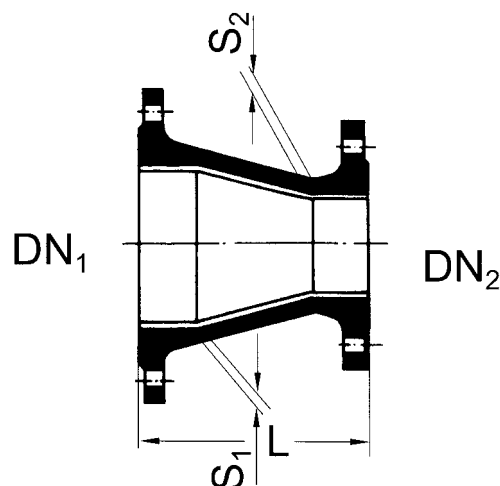
FFR

Figure 8372, PN 10

Flanged reducing adapter
EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN 1/DN 2	s1 mm	s2 mm	L mm	Weight kg
80 - 50	7.0	7.0	200	7.2
100 - 50	7.2	7.0	200	8.1
100 - 80	7.2	7.0	200	9.5
150 - 80	7.8	7.0	200	12.2
150 - 100	7.8	7.2	200	12.8
150 - 125	7.8	7.5	200	14.0
200 - 80	8.4	7.0	300	18.1
200 - 100	8.4	7.2	300	18.5
200 - 125	8.4	7.5	300	20.0
200 - 150	8.4	7.3	300	22.0
250 - 150	9.0	7.8	300	27.5
250 - 200	9.0	8.4	300	30.0
300 - 200	9.6	8.4	400	35.5
300 - 250	9.6	9.0	300	41.0



Pipe couplings blind flange

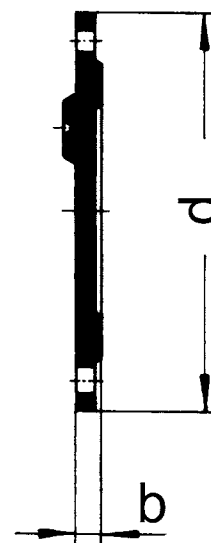
X

Figure 8377, PN 10

Blind flanges
flat and domed
EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN	d mm	b mm	Weight kg
50	-	-	3.0
65	185	16	4.0
80	200	19	5.0
100	220	19	6.0
125	250	21	8.0
150	285	21	10.5
200	340	23	16.0
250	400	24	23.0
300	455	24	30.0



Pipe couplings flanged sleeve

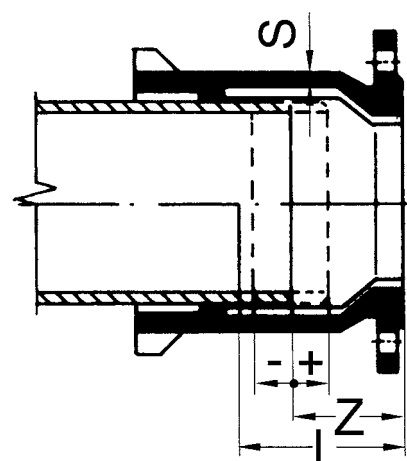
EU

Figure 8374, PN 10

Flanged sleeve
EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN	L mm	s mm	z mm	Weight kg
with Tyton sealing ring				
80	130	7.0	86	7.5
100	130	7.2	87	9.1
125	135	7.5	91	11.4
150	135	7.8	92	15.3
200	140	8.4	97	20.0
with Tyton - Sit sealing ring				
80	130	7.0	86	7.5
100	130	7.2	87	9.1
125	135	7.5	91	11.4
150	135	7.8	92	15.3
200	140	8.4	97	20.0



Pipe couplings flanged and threaded sleeve

EU-SMU

Figure 8379, PN 10

Flanged threaded sleeve
EN-GJS-400-15
Thick EPOXY coating

Technical dimensions

DN	l mm	s mm	z mm	Weight kg
80	130	7.0	86	7.5
100	130	7.2	87	9.1
125	135	7.5	91	11.4
150	135	7.8	92	15.3
200	140	8.4	97	20.0