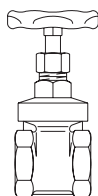


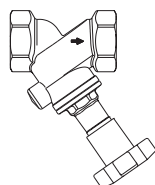
5.a "Optibal" Ball valves

Content	5.03
"Optibal" Ball valves PN 16	5.04
"Optibal" Ball valves with coupling PN 16	5.06
Accessories	5.06
Insulation	5.06
"Optibal" Ball valves with lever PN 16	5.07
"Optigas" Isolating ball valves	5.07
"Optibal" Ball valves with T-handle PN 16	5.08
Stem extensions	5.08
Conversion set plastic handle (anthracite)	5.08
Ball valves "DZR"	5.09
Ball valves NPT	5.09
"Optibal" High temperature ball valves PN 16	5.10
"Optibal" High pressure ball valves PN 40	5.11
Accessories	5.11



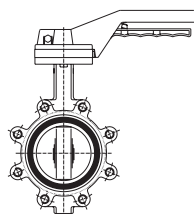
5.b "Hygate" Gate valves

Content	5.13
"Hygate ATB" Gate valves PN 25	5.14
"Hygate ATR" Gate valves PN 25	5.14
"Hygate AFC" Flanged gate valves PN 16	5.15
"Hygate AFC" Flanged gate valves PN 10	5.15



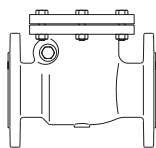
5.c Valves PN 16/25

Content	5.17
Oblique pattern globe valves PN 25	5.18
Straight pattern globe valves with setting indicator PN 25	5.18
Straight pattern globe valves PN 16	5.18
Oblique pattern globe valves PN 25	5.19
Oblique pattern drain valves PN 25	5.19
Lockshield spindles	5.19
Airvent PN 25	5.19
Accessories	5.19



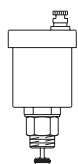
5.d Butterfly valves

Content	5.21
Lugged butterfly valves PN 16	5.22
Wafer butterfly valves PN 16	5.23
Accessories	5.24



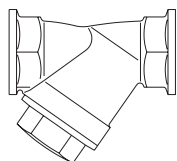
5.e Piston type spring assisted check valves, swing type check valves

Content	5.25
Piston type spring assisted check valves (female threaded model) PN 25	5.26
Swing type check valves (female threaded model) PN 16	5.26
Swing type check valves (flanged model) PN 16	5.27
Swing type check valves (wafer model) PN 16	5.27
Double swing type check valves (wafer model) PN 16	5.27



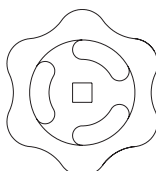
5.f Airvents

Content	5.29
Airvents PN 10	5.30



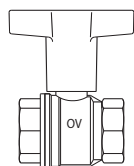
5.g Strainers

Content	5.31
"Y" type strainers PN 25	5.32
Spare parts	5.32
"Y" type strainers PN 16	5.33
Spare parts	5.33
"Y" type strainers PN 25	5.34
Spare parts	5.34



5.h Spare parts

Content	5.35
Handwheels	5.36
PTFE washers	5.36



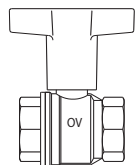
5.a "Optibal" Ball valves

Content

"Optibal" Ball valves PN 16	5.04
"Optibal" Ball valves with coupling PN 16	5.06
Accessories	5.06
Insulation	5.06
"Optibal" Ball valves with lever PN 16	5.07
"Optigas" Isolating ball valves	5.07
"Optibal" Ball valves with T-handle PN 16	5.08
Stem extensions	5.08
Conversion set plastic handle (anthracite)	5.08
Ball valves "DZR"	5.09
Ball valves NPT	5.09
"Optibal" High temperature ball valves PN 16	5.10
"Optibal" High pressure ball valves PN 40	5.11
Accessories	5.11

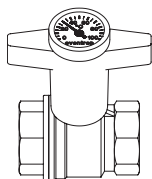
Article	kvs	Packing unit	Article-No.	Hint
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"Optibal" Ball valves PN 16
brass, nickel plated, full flow,
extended plastic handle (anthracite)
with red cover plug for riser identification



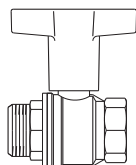
both ports female thread

DN 10	8.80	(10)	1077103
DN 15	22.00	(10)	1077104
DN 20	43.00	(10)	1077106
DN 25	67.00	(10)	1077108
DN 32	99.00	(8)	1077110
DN 40	143.00	(6)	1077112
DN 50	254.00	(4)	1077116



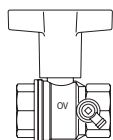
as above, with thermometer (anthracite)

DN 10	8.80	(10)	1078003
DN 15	22.00	(10)	1078004
DN 20	43.00	(10)	1078006
DN 25	67.00	(10)	1078008
DN 32	99.00	(8)	1078010
DN 40	143.00	(6)	1078012
DN 50	254.00	(4)	1078016



one port male thread, one port female thread

DN 10	8.80	(10)	1077303
DN 15	22.00	(10)	1077304
DN 20	43.00	(10)	1077306
DN 25	67.00	(10)	1077308
DN 32	99.00	(8)	1077310
DN 40	143.00	(6)	1077312
DN 50	254.00	(4)	1077316



both ports female thread
with draining valve (connection thread G 1/4)

DN 15		(10)	1077804
DN 20		(5)	1077806
DN 25		(5)	1077808
DN 32		(5)	1077810

Application:
Pipe fitting for fluids.
Max. operating pressure p_s : 16 bar
(PN 16), for cold water 20 bar, for air
and other harmless gases (not for gaseous
fluids group 1 according to directive
2014/68/EU) 10 bar.
Operating temperature t_s : -10 °C up to +100 °C
Attention: Prevent formation of ice as it can
destroy the pipework and valve.
Chrome plated brass ball, PTFE seats, FKM
O-ring seal.

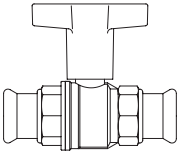
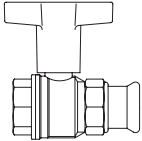
Advantages:

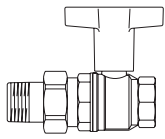
- full flow
- diverse applications
- all standard handles available
- simple insulation of models with extended plastic handle
- high pressure rating due to blow-off proof stem and high body resistance
- ball surface hard-chrome plated

For further information see
"Technical information":



With plug and draining valve.

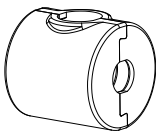
Article	Packing unit	Article-No.	Hint
	both ports press connection		<p>Application:</p> <p>Pipe fitting for fluids.</p> <p>Max. operating pressure p_s: 16 bar (PN 16), for cold water 20 bar, for air and other harmless gases (not for gaseous fluids group 1 according to directive 2014/68/EU) 10 bar.</p> <p>Operating temperature t_s: $-10\text{ }^\circ\text{C}$ up to $+100\text{ }^\circ\text{C}$</p> <p>Attention: Prevent formation of ice as it can destroy the pipework and valve.</p> <p>Chrome plated brass ball, PTFE seats, FKM O-ring seal.</p>
	DN 15	(10) 1077162	
	DN 15	(10) 1077163	
	DN 20	(10) 1077164	
	DN 25	(10) 1077165	
	DN 32	(5) 1077166	
DN 40 and DN 50 see item no. 4208857/58: page 8.24			
	one port female thread, one port press connection		<p>Advantages:</p> <ul style="list-style-type: none"> - full flow - diverse applications - all standard handles available - simple insulation of models with extended plastic handle - high pressure rating due to blow-off proof stem and high body resistance - ball surface hard-chrome plated <p>Press connection:</p> <p>For the direct connection of copper pipes according to DIN EN 1057 / DVGW GW 392, stainless steel pipes according to DIN EN 10088 / DVGW GW 541 and thin-walled C-steel pipe (material no. E195/1.0034) according to DIN EN 10305-3. Pressing must be carried out to tighten the connection. Only use press jaws with the original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in corresponding size. Processing must be carried out according to the installation instructions.</p>
	DN 15	(10) 1077152	
	DN 15	(10) 1077153	
	DN 20	(10) 1077154	
	DN 25	(10) 1077155	
	DN 32	(5) 1077156	



Article	Packing unit	Article-No.	Hint
"Optibal" Ball valves with coupling PN 16			
brass, nickel plated, full flow, extended plastic handle (anthracite) with red cover plug for riser identification			
one port with tapered sealing coupling with male thread, one port female thread			
DN 15	(10)	1075704	Application: Pipe fitting for central heating and cooling systems. Max. operating pressure p_g : 16 bar (PN 16), for cold water 20 bar, for air and other harmless gases (not for gaseous fluids group 1 according to directive 2014/68/EU) 10 bar. Operating temperature t_s : -10 °C up to +100 °C Attention: Prevent formation of ice as it can destroy the pipework and valve. Chrome plated brass ball, PTFE seats, FKM O-ring seal.
DN 20	(10)	1075706	
DN 25	(10)	1075708	
DN 32	(10)	1075710	

Accessories

Insulation



for brass ball valves "Optibal" with extended plastic handle
 ball valves with female thread (item no. 10771/80/87/91..)

DN 15 (also for DN 10)	1078092
DN 25	1078094
DN 32	1078095
DN 20	1078093
DN 40	1078096
DN 50	1078097

For heating and cooling systems.
 With stem extension also suitable for other handles.
 All ball valves "Optibal" with extended plastic handle can also be coated with standard insulation material.

Meet the requirements of the German Energy Saving Directive according to appendix 5, table 1, line 5.

Building material class B2 according to DIN 4102.

Operating temperature t_s : +100 °C



Blue cover plug
 for riser identification,
 for replacement of the existing red cover plug

DN 10 + DN 15, set = 10 pieces	1077171
DN 20 + DN 25, set = 10 pieces	1077172
DN 32 - DN 50, set = 5 pieces	1077173



Thermometer conversion set, anthracite
 for item no. 10771/73/78/57/91 ..

DN 10 + DN 15	(10)	1077181
DN 20 and DN 25	(10)	1077182
DN 32 - DN 50	(10)	1077183



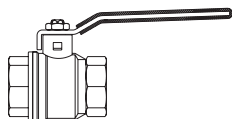
Stem extensions
 brass, with swivel plastic sleeve

		Extension in mm	
up to DN 15	38.5	(10)	1696081
DN 20 + DN 25	39	(10)	1696082
DN 32 - DN 50	64	(10)	1696083

To upgrade brass ball valves "Optibal" with extended plastic handle (except for item no. 10787..).
 By sealing the swivel plastic sleeve against the insulation in cooling systems, no humidity can reach the pipework via the stem extension.
 Only one extension can be used.

Article	kvs	Packing unit	Article-No.	Hint
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"Optibal" Ball valves with lever PN 16
 brass, nickel plated, full flow,
 galvanised steel lever with plastic coating

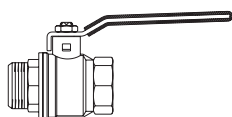


both ports female thread

DN 8	5.60	(10)	1076002
DN 10	8.80	(10)	1076003
DN 15	22.00	(10)	1076004
DN 20	43.00	(10)	1076006
DN 25	67.00	(10)	1076008
DN 32	99.00	(8)	1076010
DN 40	143.00	(6)	1076012
DN 50	254.00	(4)	1076016
DN 65	470.00	(2)	1076020
DN 80	720.00		1076024
DN 100	1,120.00		1076032

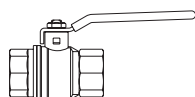
Application:
 Pipe fitting for fluids.
 Up to DN 50:
 Max. operating pressure p_s : 16 bar (PN 16) for cold water 20 bar, for air and other harmless gases (not for gaseous fluids group 1 according to directive 2014/68/EU) 10 bar.
 Operating temperature t_s : -10 °C up to +100 °C
 DN 65 up to DN 100:
 Max. operating pressure p_s : 16 bar at 70 °C (PN 16), 12 bar at 85 °C, 8 bar at 100 °C
 Operating temperature t_s : -10 °C up to +100 °C
 CE marking according to directive 2014/68/EU.
 Attention: Prevent formation of ice as it can destroy the pipework and valve.

For further information see
 "Technical information":



one port male thread,
 one port female thread

DN 10	8.80	(10)	1076203
DN 15	22.00	(10)	1076204
DN 20	43.00	(10)	1076206
DN 25	67.00	(10)	1076208
DN 32	99.00	(8)	1076210



"Optigas" Isolating ball valves
 brass, nickel plated, DVGW approved, with full flow and female thread according to EN 10226-1, stem with double O-ring seal made of FKM, ball hard-chrome plated, PTFE seats

DN 15	Rp ½	(25)	3016404
DN 20	Rp ¾	(25)	3016406
DN 25	Rp 1	(25)	3016408
DN 32	Rp 1¼	(10)	3016410
DN 40	Rp 1½	(10)	3016412
DN 50	Rp 2	(5)	3016416

Application:
 Gas installations according to DVGW-TRGI used with gas according to DVGW work sheet G 260/I including liquid gas in gaseous state.

Temperature range: -20 °C up to +60 °C
 MOP 5 (5 bar according to EN 331).

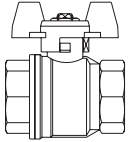
Heating, cooling and industrial application:
 Water, water and glycol mixtures, heating oil, fuels and air.
 Full flow according to DIN EN 1983.
 Max. operating pressure p_s : 16 bar (PN 16), for cold water 20 bar, for air and other harmless gases (not for gaseous fluids group 1 according to directive 2014/68/EU) 10 bar.
 Operating temperature t_s : -20 °C up to +100 °C

Attention: Prevent formation of ice as it can destroy the pipework and valve.

Article	kv s	Packing unit	Article-No.	Hint
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"Optibal" Ball valves with T-handle PN 16

brass, nickel plated, full flow,
metal T-handle,
both ports female thread



DN 10	8.80	(10)	1076103
DN 15	22.00	(10)	1076104
DN 20	43.00	(10)	1076106
DN 25	67.00	(10)	1076108
DN 32	99.00	(8)	1076110

Application:

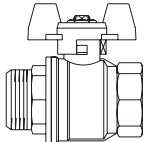
Pipe fitting for fluids.

Max. operating pressure p_s : 16 bar
(PN 16), for cold water 20 bar, for air
and other harmless gases (not for gaseous
fluids group 1 according to directive
2017/68/EU) 10 bar.

Operating temperature t_s : -10 °C up to +100 °C

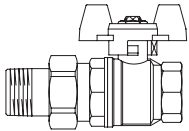
Attention: Prevent formation of ice as it can
destroy the pipework and valve.

one port male thread,
one port female thread



DN 10	8.80	(10)	1076303
DN 15	22.00	(10)	1076304
DN 20	43.00	(10)	1076306
DN 25	67.00	(10)	1076308
DN 32	99.00	(8)	1076310

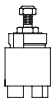
one port with tapered sealing coupling with male thread,
one port female thread



DN 15		(10)	1075804
DN 20		(10)	1075806
DN 25		(8)	1075808
DN 32		(8)	1075810

Stem extensions

brass, with swivel plastic sleeve



Extension in mm

up to DN 15	38.5	(10)	1076081
DN 20 + DN 25	39	(10)	1076082
DN 32 - DN 50	64	(10)	1076083
DN 65 - DN 100	85	(10)	1076084

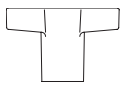
To upgrade brass ball valves "Optibal" (except
for item no. 10787..).

By sealing the swivel plastic sleeve against the
insulation in cooling systems, no humidity can
reach the pipework via the stem extension.

To avoid condensation at the lever, the latter
must also be insulated, for instance by slipping
an elastic pipe insulation over the stem
extension and the shank of the plastic handle.
Only one extension can be used.

Conversion set plastic handle (anthracite)

with red cover plug for riser identification

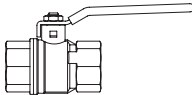
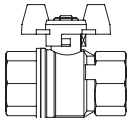
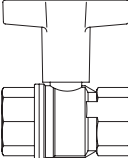
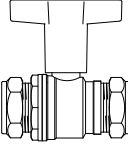

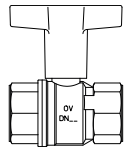


up to DN 15		(10)	1076071
DN 20 + DN 25		(10)	1076072
DN 32 - DN 50		(10)	1076073

For subsequent conversion of brass ball valves
"Optibal" with lever or metal T-handle to plastic
handle (except for item no. 10787..) allowing
the insulation of the ball valves.

For further information see
"Technical information":



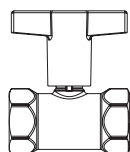
Article	kvs	Packing unit	Article-No.	Hint	
Ball valves "DZR"				<p>Application: Pipe fitting for central heating and cooling systems. Max. operating pressure p_s: 30 bar pressure impact resistant at 30 °C (PN 30), 6 bar at 120 °C, for air max. 10 bar. Operating temperature t_s: -10 °C up to +120 °C Pressure/temperature allocation see data sheet. Attention: Prevent formation of ice as it can destroy the pipework and valve.</p>	
brass resistant to dezincification, full flow, both ports female thread according to ISO 228/1 (thread also corresponds to Rp according to EN 10226-1).					
Operating element:					
Galvanised steel lever with plastic coating					
	DN 15	22.00	(10) 1079004		
	DN 20	43.00	(10) 1079006		
	DN 25	67.00	(10) 1079008		
	DN 32	99.00	(8) 1079010		
	DN 40	143.00	(6) 1079012		
	DN 50	254.00	(4) 1079016		
Aluminium T-handle, red					
	DN 15	22.00	(10) 1079404		
	DN 20	43.00	(12) 1079406		
Extended plastic handle (anthracite) with red cover plug for riser identification					
	DN 15	22.00	(8) 1079104		
	DN 20	43.00	(10) 1079106		
	DN 25	67.00	(8) 1079108		
	DN 32	99.00	(6) 1079110		
	DN 40	143.00	(6) 1079112		
	DN 50	254.00	(4) 1079116		
both ports compression ends for copper pipe according to EN 1254-2				<p>Application: Pipe fitting for central heating and cooling systems. Max. operating pressure p_s: 16 bar pressure impact resistant at 30 °C (PN 16), 10 bar up to 65 °C, 6 bar up to 110 °C and 5 bar up to 120 °C Operating temperature t_s: -10 °C up to +120 °C WRAS certified. Attention: Prevent formation of ice as it can destroy the pipework and valve.</p>	
Extended plastic handle (anthracite) with red cover plug for riser identification					
	15 mm		(8) 1079704*		
	22 mm		(10) 1079706*		
	28 mm		(8) 1079708*		
	35 mm		(6) 1079710*		
Locking cap, brass					<p>The locking cap can be mounted instead of the handle. The ball valve is locked in open and shut-off position and setting is secured.</p>
	DN 15		(5) 1079254		
	DN 20 + DN 25		(5) 1079255		
	DN 32 - DN 50		(5) 1079256		
Ball valves NPT				<p>Application: Pipe fitting for central heating and cooling systems. Max. operating pressure p_s: 16 bar Operating temperature t_s: -10 °C up to -100 °C Attention: Prevent formation of ice as it can destroy the pipework and the valve. Chrome plated brass ball, PTFE seats, FKM O-ring seal.</p>	
brass, unplated, full flow extended plastic handle (anthracite) with red cover plug for riser identification					
both ports NPT female thread according to ANSI B1.20.1					
	DN 15	NPT 1/2	(8) 1077904*		
	DN 20	NPT 3/4	(10) 1077906*		
	DN 25	NPT 1	(8) 1077908*		
	DN 32	NPT 1 1/4	(6) 1077910*		
	DN 40	NPT 1 1/2	(6) 1077912*		
	DN 50	NPT 2	(4) 1077916*		

Article	kvs	Packing unit	Article-No.	Hint
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"Optibal" High temperature ball valves PN 16

brass, nickel plated, reduced flow, extended plastic handle (anthracite)

Application:
Pipe fitting for central heating and cooling systems.



both ports female thread

DN 20 Rp 3/4	9.50	(10)	1078706
DN 25 Rp 1	17.00	(10)	1078708
DN 32 Rp 1 1/4	35.00	(5)	1078710

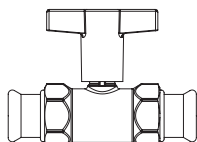
Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +150 °C, for short periods up to +180 °C; with press connection max. +120 °C, for short periods up to +150 °C

Attention: Prevent formation of ice as it can destroy the pipework and valve.

Press connection:

For the direct connection of copper pipes according to DIN EN 1057 / DVGW GW 392, stainless steel pipes according to DIN EN 10088 / DVGW GW 541 and thin-walled C-steel pipe (material no. E 195/1.0034) according to DIN EN 10305-3. Pressing must be carried out to tighten the connection. Only use press jaws with the original contours SANHA (SA), Geberit-Mapress (MM) or Viega (Profipress) in corresponding size. Processing must be carried out according to the installation instructions.

both ports press connection



DN 20 Ø 22 mm	(10)	1078760
DN 25 Ø 28 mm	(10)	1078761
DN 32 Ø 35 mm	(5)	1078762

Accessories

Stem seal for replacement purposes (set of 5 pieces) (not suitable for valves with marking "HT")

DN 20	1078790
DN 25 / 32	1078791

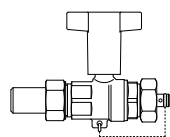
Thermometer conversion set, anthracite



for item no.	(10)	1078382
1078171/ 72/ 73, 1078371/ 72/ 73, 1078708/ 10/ 61/ 62 and 4208806/ 08, 4208854/ 55, 4208906/ 08		

Article	Packing unit	Article-No.	Hint
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"Optibal" High pressure ball valves PN 40
bronze, unplated, full flow



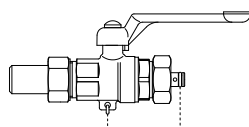
one port with weldable steel tailpipe,
one port with cap,
extended plastic handle (anthracite)

DN 15	(5)	1066604
DN 20	(5)	1066606
DN 25	(5)	1066608
DN 32	(5)	1066610

Application:
Pipe fitting for central heating (especially for district heating) and cooling systems.

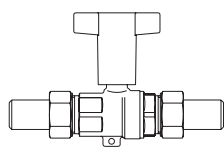
Max. operating pressure p_s : 40 bar at 150 °C (PN 40)
Operating temperature t_s : 2 °C up to 150 °C (with plastic handle up to 120 °C)

For further information see "Technical information":



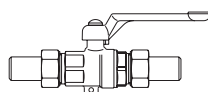
one port with weldable steel tailpipe,
one port with cap,
aluminium lever

DN 15		1066504
DN 20		1066506
DN 25		1066508
DN 32		1066510



both ports with weldable steel tailpipe,
extended plastic handle (anthracite)

DN 15	(5)	1065604
DN 20	(5)	1065606
DN 25	(5)	1065608
DN 32	(5)	1065610



both ports with weldable steel tailpipe,
aluminium lever

DN 15		1065504
DN 20		1065506
DN 25		1065508
DN 32		1065510

Accessories

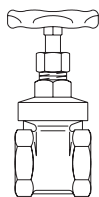


Cap with washer and chain

DN 15	(25)	1066904
DN 20	(25)	1066906
DN 25	(25)	1066908
DN 32	(25)	1066910

For item no. 10650/51/55/56.. and 10660/61/65/66 ..

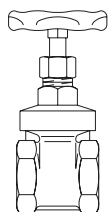
G 3/4 female thread
G 1 female thread
G 1 1/4 female thread
G 1 1/2 female thread



5.b "Hygate" Gate valves

Content

"Hygate ATB" Gate valves PN 25	5.14
"Hygate ATR" Gate valves PN 25	5.14
"Hygate AFC" Flanged gate valves PN 16	5.15
"Hygate AFC" Flanged gate valves PN 10	5.15



"Hygate ATB" Gate valves PN 25
 (with isolating facility, threaded connection, brass)

Standard model

Article	kvs	Packing unit	Article-No.
DN 10	10.00	(50)	1040003
DN 15	11.00	(50)	1040004
DN 20	34.00	(50)	1040006
DN 25	46.00	(25)	1040008
DN 32	60.00	(25)	1040010
DN 40	105.00	(10)	1040012
DN 50	170.00	(5)	1040016
DN 65	280.00	(5)	1040020
DN 80	420.00	(2)	1040024
DN 100	650.00	(2)	1040032

Application:

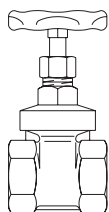
Central heating and cooling systems with closed circuits and industrial plants, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Material resistant to: mineral, heating and hydraulic oils

Max. operating pressure p_s : 25 bar (PN 25)
 Operating temperature t_s : -10 °C up to +120 °C
 (The valid rules and standards for the use of these media may restrict the temperature range. Not suitable for gaseous fluids group 1 according to directive 2014/68/EU).

Body, bonnet, wedge and stem made of brass, with re-adjustable gland packing made of material containing PTFE.

For further information see "Technical information":



"Hygate ATR" Gate valves PN 25
 (with isolating facility, threaded connection, bronze)

DN 10	10.00	(50)	1043003
DN 15	11.00	(50)	1043004
DN 20	34.00	(50)	1043006
DN 25	46.00	(25)	1043008
DN 32	60.00	(20)	1043010
DN 40	105.00	(10)	1043012
DN 50	170.00	(5)	1043016
DN 65	280.00	(5)	1043020
DN 80	420.00	(2)	1043024

Application:

Central heating and cooling systems with closed circuits and industrial plants, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Material resistant to: mineral, heating and hydraulic oils, fuels, water vapour as well as air and other harmless and non-aggressive gases (not for gaseous fluids group 1 according to directive 2014/68/EU)

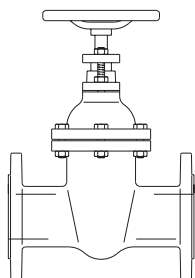
Max. operating pressure p_s : 25 bar (PN 25)
 Operating temperature t_s :
 -10 °C up to +200 °C for water
 (0 °C up to 150 °C for water vapour)
 (The valid rules and standards for the use of these media may restrict the temperature range.)

Body, bonnet and wedge made of bronze, stem made of brass resistant to dezincification, with re-adjustable gland packing made of material containing PTFE, brass gland nut.

For further information see "Technical information":



Article kvs Article-No. Hint



"Hygate AFC" Flanged gate valves PN 16
 (with isolating facility, flanged connection, cast iron)

DN 40	107.00	1045049
DN 50	250.00	1045050
DN 65	430.00	1045051
DN 80	790.00	1045052
DN 100	1,250.00	1045053
DN 125	1,960.00	1045054
DN 150	2,790.00	1045055
DN 200	2,880.00	1045056
DN 250	4,306.00	1045057
DN 300	6,380.00	1045058

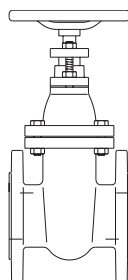
Application:
 Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
 Operating temperature t_s : -10 °C up to +120 °C
 Body, bonnet and stuffing box assembly made of cast iron (EN-GJL-250 DIN EN1561), stem and valve seat made of brass, asbestos free seal.

Round flanges according to DIN EN 1092-2, PN 16.

Lengths according to EN 558-1, basic series 15

For further information see "Technical information":



"Hygate AFC" Flanged gate valves PN 10
 (with isolating facility, flanged connection, cast iron)

DN 40	120.00	1045149
DN 50	270.00	1045150
DN 65	470.00	1045151
DN 80	900.00	1045152
DN 100	1,600.00	1045153
DN 125	2,150.00	1045154
DN 150	3,680.00	1045155
DN 200		1045156
DN 250		1045157
DN 300		1045158

Application:
 Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

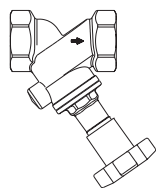
Max. operating pressure p_s : 10 bar (PN 10)
 Operating temperature t_s : -10 °C up to +120 °C
 Body, bonnet and stuffing box assembly made of cast iron (EN-GJL-250 DIN EN1561), stem and valve seat made of brass, asbestos free seal.

Round flanges according to DIN EN 1092-2, PN 10.

Lengths according to EN 558-1, basic series 14

For further information see "Technical information":





5.c Valves PN 16/25

Content

Oblique pattern globe valves PN 25	5.18
Straight pattern globe valves with setting indicator PN 25	5.18
Straight pattern globe valves PN 16	5.18
Oblique pattern globe valves PN 25	5.19
Oblique pattern drain valves PN 25	5.19
Lockshield spindles	5.19
Airvent PN 25	5.19
Accessories	5.19

Article	kvs	Packing unit	Article-No.	Hint
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Oblique pattern globe valves PN 25
with plastic handwheel, bronze
bonnet and stem with maintenance-free O-ring seal,
additional sealing when stem is fully opened,
setting indicator "valve fully opened", seat with PTFE seal,
materials suitable for potable water

Application:
Item no. 10502/03/21...:
Central heating and cooling systems with
closed circuits, for operation with non-
aggressive, harmless fluids (e. g. water or
suitable water and glycol mixtures according to
VDI 2035/ÖNORM 5195), as well as
installations with open circuits which are
operated with water.

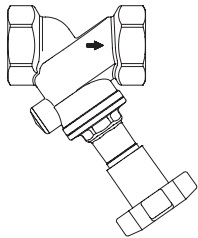
without draining facility

DN 10	3.10	(10)	1050203
DN 15	4.40	(10)	1050204
DN 20	9.50	(10)	1050206
DN 25	17.40	(10)	1050208
DN 32	29.20	(5)	1050210
DN 40	42.90	(5)	1050212
DN 50	64.00	(5)	1050216

Max. operating pressure p_s : 25 bar (PN 25)
Operating temperature t_s : -10 °C up to +150 °C

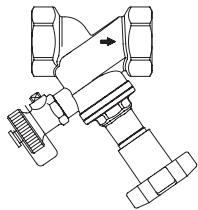
Bronze body, brass bonnet.
The oblique pattern globe valves
DN 10 - DN 20 are suitable for use with
compression fittings, item no. 10271...,
page 3.45.

For further information see
"Technical information":



with draining facility (level with the handwheel)

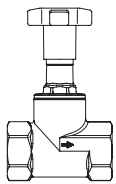
DN 10	3.10	(10)	1050303
DN 15	4.40	(10)	1050304
DN 20	9.50	(10)	1050306
DN 25	17.40	(10)	1050308
DN 32	29.20	(5)	1050310
DN 40	42.90	(5)	1050312
DN 50	64.00	(5)	1050316



Straight pattern globe valves
with setting indicator PN 25
with plastic handwheel, bronze
length according to DIN 3844, series 2
bonnet and stem with maintenance-free O-ring seal,
additional sealing when stem is fully opened,
setting indicator "valve fully opened", seat with PTFE seal,
materials suitable for potable water

without draining facility

DN 8	1.45	(10)	1052102
DN 10	2.10	(10)	1052103
DN 15	3.70	(10)	1052104
DN 20	6.40	(10)	1052106
DN 25	9.80	(10)	1052108
DN 32	15.80	(5)	1052110
DN 40	22.50	(5)	1052112
DN 50	32.60	(5)	1052116



Straight pattern globe valves PN 16
bronze
length according to DIN 3844, series 2
with PTFE seal, not suitable for potable water
Bonnetts (item no. 10590..) on request.
The bonnetts for the bodies DN 8, DN 10 and DN 15 are identical.
Bodies (item no. 10580..) on request.

Application:
Central heating and cooling systems with
closed circuits and industrial plants, for
operation with non-aggressive, harmless fluids
(e. g. water or suitable water and glycol
mixtures according to VDI 2035/ÖNORM
5195).

Material resistant to: mineral, heating and
hydraulic oils, fuels, water vapour as well as air

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : 0 °C up to 150 °C

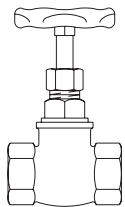
For air:

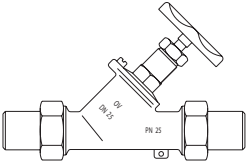
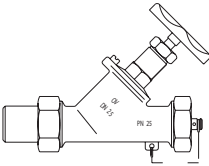

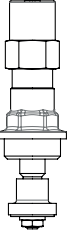
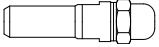



Max. operating pressure p_s : 6 bar (PN 16)
Operating temperature t_s : 0 °C up to 100 °C

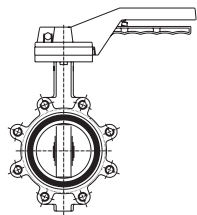
Bronze body, brass bonnet.

The straight pattern globe valves are not
suitable for compression connection.

DN 8	3.00	(10)	1052002
DN 10	3.00	(10)	1052003
DN 15	3.00	(10)	1052004
DN 20	5.00	(10)	1052006
DN 25	8.50	(10)	1052008
DN 32	15.00	(5)	1052010
DN 40	20.00	(5)	1052012
DN 50	30.00	(5)	1052016
DN 65	55.00	(2)	1052020



Article	Packing unit	Article-No.	Hint
Oblique pattern globe valves PN 25			
bronze			
both ports with weldable steel tailpipes, with PTFE seal			
with handwheel			
	DN 15	1065004	Application: Central heating and cooling systems with closed circuits (especially for district heating and transmission units), for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035, ÖNORM 5195 and FW510). Max. operating pressure p_s : 25 bar (PN 25) Operating temperature t_s : 0 °C up to 150 °C
	DN 20	1065006	
	DN 25	1065008	
	DN 32	1065010	
Oblique pattern drain valves PN 25			
bronze			
one port with weldable steel tailpipe, one port with cap			
with handwheel			
	DN 15	1066004	For further information see "Technical information": 
	DN 20	1066006	
	DN 25	1066008	
	DN 32	1066010	
Lockshield spindles			
for oblique pattern valves and airvent PN 25			
	DN 15	(5) 1069292	Lockshield spindle as replacement for oblique pattern valves and airvent PN 25.
	DN 20	(5) 1069293	
	DN 25	(5) 1069294	
	DN 32	(5) 1069295	
Airvent PN 25			
steel			
	DN 15	(25) 1067004	
Accessories			
Cap with washer and chain			
	DN 15	(25) 1066904	For item no. 10650/51/55/56.. and 10660/61/65/66 .. G 3/4 female thread G 1 female thread G 1 1/4 female thread G 1 1/2 female thread
	DN 20	(25) 1066906	
	DN 25	(25) 1066908	
	DN 32	(25) 1066910	
Washer for item no. 10650.., 10651.., 10660.., 10661..			
	DN 15	(10) 1065904	
	DN 20	(10) 1065906	
	DN 25	(10) 1065908	
	DN 32	(10) 1065910	
	General purpose lockshield key	(10) 1066151	



5.d Butterfly valves

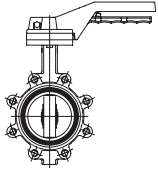
Content

Lugged butterfly valves PN 16	5.22
Wafer butterfly valves PN 16	5.23
Accessories	5.24

Article kvs Article-No. Hint

**Lugged butterfly valves PN 16
with EPDM liner**

Body: GJS-500 (GGG-50) nodular cast iron
Stem: AISI420 stainless steel
Disc: CF8M AISI316 stainless steel



Lugged pattern, lever operated

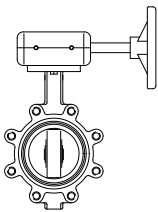
DN 50	108.00	1048250
DN 65	198.00	1048251
DN 80	330.00	1048252
DN 100	545.00	1048253
DN 125	890.00	1048254
DN 150	1,410.00	1048255
DN 200	2,356.00	1048256

Application:
Central heating and cooling systems and industrial plants with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +110 °C

Extended neck for insulation purposes.

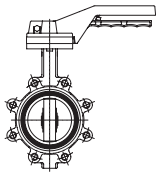
Lugged pattern, gear operated



DN 50	108.00	1048950°
DN 65	198.00	1048951°
DN 80	330.00	1048952°
DN 100	545.00	1048953
DN 125	890.00	1048954
DN 150	1,410.00	1048955
DN 200	2,356.00	1048956
DN 250	3,780.00	1048957
DN 300	5,590.00	1048958
DN 350	8,080.00	1048959
DN 400	10,533.00	1048960

**Lugged butterfly valves PN 16
with NBR liner**

Body: GJS-500 (GGG-50) nodular cast iron
Stem: AISI 420 stainless steel
Disc: CF8M AISI316 stainless steel



Lugged pattern, lever operated

DN 50	108.00	1048350°
DN 65	198.00	1048351°
DN 80	330.00	1048352°
DN 100	545.00	1048353°
DN 125	890.00	1048354°
DN 150	1,410.00	1048355°
DN 200	2,356.00	1048356°

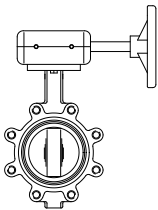
Application:
Central heating and cooling systems and industrial plants with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Material resistant to: mineral oils, air and other harmless non-flammable gases (not suitable for the gas installation according to TRGI)

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +80 °C

Extended neck for insulation purposes.

Lugged pattern, gear operated



DN 50	108.00	1049050°
DN 65	198.00	1049051°
DN 80	330.00	1049052°
DN 100	545.00	1049053°
DN 125	890.00	1049054°
DN 150	1,410.00	1049055°
DN 200	2,356.00	1049056°
DN 250	3,780.00	1049057°
DN 300	5,590.00	1049058°
DN 350	8,080.00	1049059°
DN 400	10,533.00	1049060°

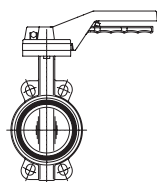
For further information see
"Technical information":



Article kvs Article-No. Hint

Wafer butterfly valves PN 16 with EPDM liner

Body: GJS-500 (GGG-50) nodular cast iron
Stem: AISI420 stainless steel
Disc: CF8M AISI316 stainless steel



Wafer pattern, lever operated

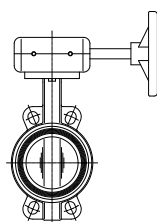
DN 50	108.00	1046250
DN 65	198.00	1046251
DN 80	330.00	1046252
DN 100	545.00	1046253
DN 125	890.00	1046254
DN 150	1,410.00	1046255
DN 200	2,356.00	1046256

Application:
Central heating and cooling systems and industrial plants with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +110 °C

Extended neck for insulation purposes.

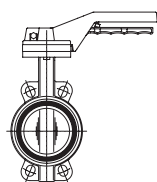
Wafer pattern, gear operated



DN 50	108.00	1046950°
DN 65	198.00	1046951°
DN 80	330.00	1046952°
DN 100	545.00	1046953
DN 125	890.00	1046954
DN 150	1,410.00	1046955
DN 200	2,356.00	1046956
DN 250	3,780.00	1046957
DN 300	5,590.00	1046958

Wafer butterfly valves PN 16 with NBR liner

Body: GJS-500 (GGG-50) nodular cast iron
Stem: AISI420 stainless steel
Disc: CF8M AISI316 stainless steel



Wafer pattern, lever operated

DN 50	108.00	1046350°
DN 65	198.00	1046351°
DN 80	330.00	1046352°
DN 100	545.00	1046353°
DN 125	890.00	1046354°
DN 150	1,410.00	1046355°
DN 200	2,356.00	1046356°

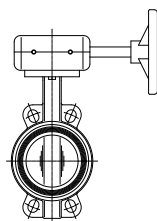
Application:
Central heating and cooling systems and industrial plants with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Material resistant to: mineral oils, air and other harmless non-flammable gases (not suitable for the gas installation according to TRGI)

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +80 °C

Extended neck for insulation purposes.

Wafer pattern, gear operated



DN 50	108.00	1047050°
DN 65	198.00	1047051°
DN 80	330.00	1047052°
DN 100	545.00	1047053°
DN 125	890.00	1047054°
DN 150	1,410.00	1047055°
DN 200	2,356.00	1047056°
DN 250	3,780.00	1047057°
DN 300	5,590.00	1047058°

For further information see "Technical information":



Article	Article-No.	Hint
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Accessories
(without illustration)

Lever handles for butterfly valves

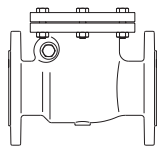
DN 50 - DN 80	1048291	
DN 100 - DN 150	1048292	
DN 200	1048293	

Gear operator

DN 50 - DN 80	1049950	
DN 100 - DN 150	1049953	
DN 200	1049956	
DN 250 - DN 300	1049957	
DN 350	1049959	
DN 400 - DN 450	1049960	

Handwheels for gear operator

DN 100 - DN 150	1048991	
DN 200 - DN 300	1048992	
DN 350 - DN 600	1048993	



**5.e Piston type spring assisted check valves,
swing type check valves**

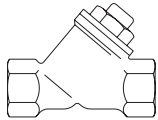
Content

Piston type spring assisted check valves (female threaded model) PN 25	5.26
Swing type check valves (female threaded model) PN 16	5.26
Swing type check valves (flanged model) PN 16	5.27
Swing type check valves (wafer model) PN 16	5.27
Double swing type check valves (wafer model) PN 16	5.27

Article	kvs	Packing unit	Article-No.	Hint
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**Piston type spring assisted check valves
(female threaded model) PN 25**

bronze, brass
with FKM seal



DN 10	2.50	(10)	1072003
DN 15	3.80	(10)	1072004
DN 20	6.00	(10)	1072006
DN 25	13.00	(10)	1072008
DN 32	17.00	(5)	1072010
DN 40	19.00	(5)	1072012
DN 50	30.50	(5)	1072016

Non-return check valve for horizontal and vertical installation.
Bronze body, inner parts made of brass.
Valve disc spring assisted.
Opening pressure 40 mbar (~400 mm WG).
Sizes DN 10 - DN 20 are suitable for use with compression fittings, item no. 10271..., page 3.45.

Application:
Central heating and cooling systems with closed circuits and industrial plants, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Material resistant to: mineral, heating and hydraulic oils, fuels, air

(The valid rules and standards for the use of these media may restrict the temperature range. Not suitable for gaseous fluids group 1 according to directive 2014/68/EU).

Max. operating pressure p_s : 25 bar (PN 25)
[6 bar (PN 25) for air]

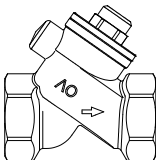
Operating temperature t_s : 0 up to 100°C
[-10 °C up to +120 °C for water]

For further information see
"Technical information":



**Piston type spring assisted check valves
(female threaded model) PN 25**

bronze, brass
with EPDM seal,
materials suitable for potable water



DN 10	3.40	(10)	1072103
DN 15	5.50	(10)	1072104
DN 20	10.30	(10)	1072106
DN 25	17.50	(10)	1072108
DN 32	33.00	(5)	1072110
DN 40	44.00	(5)	1072112
DN 50	68.00	(5)	1072116

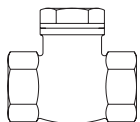
Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195), as well as systems with open circuits which are operated with water.

Max. operating pressure p_s : 25 bar (PN 25)

Operating temperature t_s : -10 °C up to +150 °C

**Swing type check valves
(female threaded model) PN 16**

bronze, brass
with metal to metal seal



DN 15	5.50	(10)	1075004
DN 20	10.20	(10)	1075006
DN 25	20.20	(10)	1075008
DN 32	34.70	(5)	1075010
DN 40	44.90	(5)	1075012
DN 50	104.40		1075016
DN 65	175.00		1075020

Application:
Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

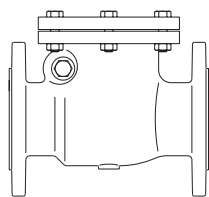
Max. operating pressure p_s : 16 bar (PN 16)

Operating temperature t_s : -10 °C up to +80 °C
[80 °C up to 120 °C: max. p_s 10 bar]

Non-return check valve for horizontal and vertical (riser) installation.
Bronze body, inner parts made of brass.

For further information see
"Technical information":





Swing type check valves (flanged model) PN 16
cast iron

Article	kvs	Article-No.
DN 40	85.00	1073049
DN 50	132.00	1073050
DN 65	326.00	1073051
DN 80	490.00	1073052
DN 100	770.00	1073053
DN 125	1,020.00	1073054
DN 150	1,700.00	1073055
DN 200	2,410.00	1073056
DN 250	3,870.00	1073057
DN 300	5,670.00	1073058

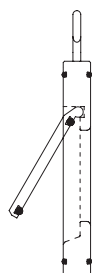
Application:

Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +120 °C

Body, cover and stuffing box assembly made of cast iron (EN-GJL-250 DIN EN1561), valve seat made of brass, asbestos free gaskets. Round flanges according to DIN EN 1092-2, PN 16.

For further information see "Technical information":



Swing type check valves (wafer model) PN 16
steel
with EPDM seal

Article	kvs	Article-No.
DN 40	22.20	1072549
DN 50	54.00	1072550
DN 65	75.00	1072551
DN 80	112.00	1072552
DN 100	172.00	1072553
DN 125	342.00	1072554
DN 150	490.00	1072555
DN 200	1,128.00	1072556
DN 250	1,500.00	1072557
DN 300	1,850.00	1072558
DN 350	2,700.00	1072559
DN 400	3,500.00	1072560
DN 450	5,200.00	1072561

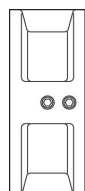
Application:

Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : -10 °C up to +120 °C

Body and flap made of galvanised steel. Suitable for 3 m/s velocity.

For further information see "Technical information":



Double swing type check valves (wafer model) PN 16
cast iron
seat seal made of EPDM

Article	kvs	Article-No.
DN 50	55.00	1072650
DN 65	82.00	1072651
DN 80	115.00	1072652
DN 100	236.00	1072653
DN 125	500.00	1072654
DN 150	700.00	1072655
DN 200	1,100.00	1072656
DN 250	2,000.00	1072657
DN 300	3,300.00	1072658
DN 350	3,950.00	1072659
DN 400	5,000.00	1072660
DN 450	6,550.00	1072661
DN 500	8,250.00	1072662
DN 600	12,600.00	1072663

Application:

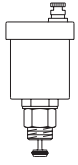
Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : 0 °C up to 120 °C

Body made of cast iron (EN-GJL-250 DIN EN 1561), stainless steel flaps.

For further information see "Technical information":



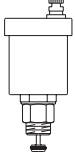
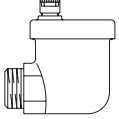
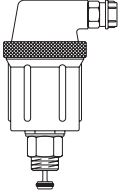


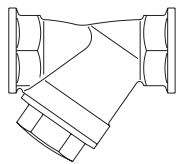
5.f Airvents

Content

Airvents PN 10

5.30

Article	Packing unit	Article-No.	Hint
Airvents PN 10			Application: Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).
			Max. operating pressure p_s : 10 bar (PN 10) Operating temperature t_s : 0 °C up to 110 °C
	Brass automatic airvent with automatic shut off		
	G $\frac{3}{8}$	(10) 1088303	
	G $\frac{1}{2}$	(10) 1088304	
	G $\frac{3}{4}$	(10) 1088306	
	angle pattern nickel plated, without automatic shut off		
	G $\frac{1}{2}$	(10) 1088404	
	Brass precision airvent with automatic shut off		With air admission barrier in the venting valve.
	G $\frac{3}{8}$	(10) 1088203	



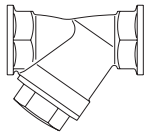
5.g Strainers

Content

"Y" type strainers PN 25	5.32
Spare parts	5.32
"Y" type strainers PN 16	5.33
Spare parts	5.33
"Y" type strainers PN 25	5.34
Spare parts	5.34

Article	kvs	Packing unit	Article-No.	Hint
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"Y" type strainers PN 25
bronze



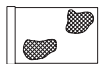
with simple wire basket, 600 µm

DN 8	1.50	(10)	1120002
DN 10	1.70	(10)	1120003
DN 15	3.80	(10)	1120004
DN 20	7.80	(10)	1120006
DN 25	13.40	(10)	1120008
DN 32	23.90	(5)	1120010
DN 40	32.50	(5)	1120012
DN 50	56.20	(5)	1120016
DN 65	101.30		1120020
DN 80	133.60		1120024

with double wire basket for fine filtering, 250 µm

DN 8	1.40	(10)	1121002
DN 10	1.60	(10)	1121003
DN 15	3.40	(10)	1121004
DN 20	6.90	(10)	1121006
DN 25	10.90	(10)	1121008
DN 32	20.70	(5)	1121010
DN 40	27.40	(5)	1121012
DN 50	47.30	(5)	1121016
DN 65	82.10		1121020
DN 80	102.00		1121024

Spare parts



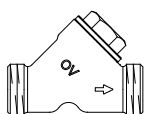
Wire basket
(mesh size 600 µm)

DN 8 + DN 10			1123003
DN 15			1123004
DN 20			1123006
DN 25			1123008
DN 32			1123010
DN 40			1123012
DN 50	(100)		1123016
DN 65			1123020
DN 80			1123024



Double wire basket
(mesh size 250 µm)

DN 8 + DN 10			1123103
DN 15			1123104
DN 20			1123106
DN 25			1123108
DN 32			1123110
DN 40			1123112
DN 50			1123116
DN 65			1123120
DN 80			1123124



Strainer PN 25
both ports male thread, flat sealing
with double wire basket 250 µm

DN 15	2.70	(10)	1141004
DN 20	4.80	(10)	1141006

Application:

Central heating and cooling systems with closed circuits and industrial plants, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Strainers 11200/10:

Material resistant to: mineral, heating and hydraulic oils, fuels, water vapour, as well as air and other harmless, non-aggressive gases (not suitable for gaseous fluids group 1 according to directive 2014/68/EU)

Max. operating pressure p_s : 25 bar (PN 25)
Operating temperature t_s : -10 °C up to +150 °C

(The valid rules and standards for the use of these media may restrict the temperature range.)

The sizes DN 10 - DN 80 are WRAS (United Kingdom) certified for installation in potable water systems.

The strainers DN 10 - DN 20 are suitable for use with compression fittings, item no. 10271..., page 3.45.

DN 8 – DN 50 bronze body, brass bonnet.
DN 65 – DN 80 brass body and bonnet.
Wire basket made of stainless chromium steel.

Item no. 11200:
Mesh size 0.6 mm
100 meshes/cm², Δ 600 µm.

Item no. 11210:
Mesh size 0.25 mm
600 meshes/cm², Δ 250 µm.

Wire basket

D	Height	Ø
DN 8 + DN 10	22	13.5
DN 15	27	19
DN 20	36	25
DN 25	42	31
DN 32	55	43
DN 40	62	48.5
DN 50	72	64
DN 65	110	70
DN 80	130	80

For further information see
"Technical information":

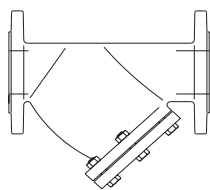


Strainer 11410:

Max. operating pressure p_s : 25 bar (PN 25)
Operating temperature t_s : -10 °C up to +120 °C

Article	kvs	Article-No.	Hint
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"Y" type strainers PN 16
cast iron



DN 15	7.00	1122045
DN 20	10.00	1122046
DN 25	15.00	1122047
DN 32	21.00	1122048
DN 40	39.00	1122049
DN 50	60.00	1122050
DN 65	105.00	1122051
DN 80	140.00	1122052
DN 100	225.00	1122053
DN 125	340.00	1122054
DN 150	405.00	1122055
DN 200	715.00	1122056
DN 250	1,355.00	1122057
DN 300	1,890.00	1122058
DN 350	2,970.00	1122059
DN 400	4,150.00	1122060
DN 450	5,540.00	1122061
DN 500	6,850.00	1122062
DN 600	9,280.00	1122063

Application:
Central heating and cooling systems with closed circuits, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).

Max. operating pressure p_s : 16 bar (PN 16)
Operating temperature t_s : 0 up to 120 °C

Body and cover made of cast iron (EN-GJL-250 DIN EN1561), wire basket made of stainless steel, asbestos free gasket.

Round flanges according to DIN EN 1092-2, PN 16.

Mesh size:
DN 15 - 32: 1.0 mm
DN 40 - 150: 1.5 mm
DN 200 - 300: 2.0 mm
DN 350 - 600: 3.0 mm

For further information see "Technical information":



Spare parts

Wire basket and blind flange ring gasket

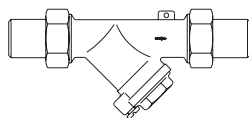


DN 15/20		1122085
DN 25		1122087
DN 32		1122088
DN 40		1122089
DN 50		1122090
DN 65		1122091
DN 80		1122092
DN 100		1122093
DN 125		1122094
DN 150		1122095
DN 200		1122096
DN 250		1122097
DN 300		1122098
DN 350		1122159
DN 400		1122160
DN 450		1122161
DN 500		1122162
DN 600		1122163

Larger sizes on demand.

Article	Packing unit	Article-No.	Hint
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"Y" type strainers PN 25
bronze



both ports with weldable steel tailpipe
wire basket made of stainless chromium steel
mesh size 0.6 mm

DN 15		1068004	
DN 20		1068006	
DN 25		1068008	
DN 32		1068010	

Application:
Central heating and cooling systems with closed circuits and industrial plants, for operation with non-aggressive, harmless fluids (e. g. water or suitable water and glycol mixtures according to VDI 2035/ÖNORM 5195).
Material resistant to: mineral, heating and hydraulic oils, fuels, water vapour as well as air and other harmless non-aggressive gases (not for gaseous fluids group 1 according to directive 2014/68/EU)

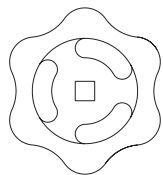
Spare parts



Wire basket
(mesh size 0.6 mm)

DN 15	(10)	1068804	
DN 20	(10)	1068806	
DN 25	(10)	1068808	
DN 32	(10)	1068810	

Max. operating pressure p_s : 25 bar (PN 25)
Operating temperature t_s : 0 °C up to 150 °C

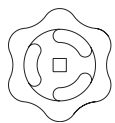


5.h Spare parts

Content

Handwheels 5.36

PTFE washers 5.36



Article	Packing unit	Article-No.	Hint
---------	--------------	-------------	------

Handwheels

red, for gate valves 10400/30.. and bronze valves 10520..

DN 10 + DN 15	(100)	1900051	
DN 20 + DN 25	(100)	1900052	
DN 32 + DN 40	(100)	1900053	
DN 50	(100)	1900054	
DN 65	(100)	1900055	
DN 80 + DN 100	(100)	1900056	

The handwheels of the bronze valves DN 10 and DN 15 as well as DN 20 and DN 25 are identical.



PTFE washers

(washer for valve disc)

for bronze valves 10520..

DN 10 + DN 15	(10)	1902051	
DN 20	(10)	1902052	
DN 25	(10)	1902053	
DN 32	(10)	1902054	
DN 40	(10)	1902055	
DN 50	(10)	1902056	
DN 65	(10)	1902057	
DN 80	(10)	1902058	