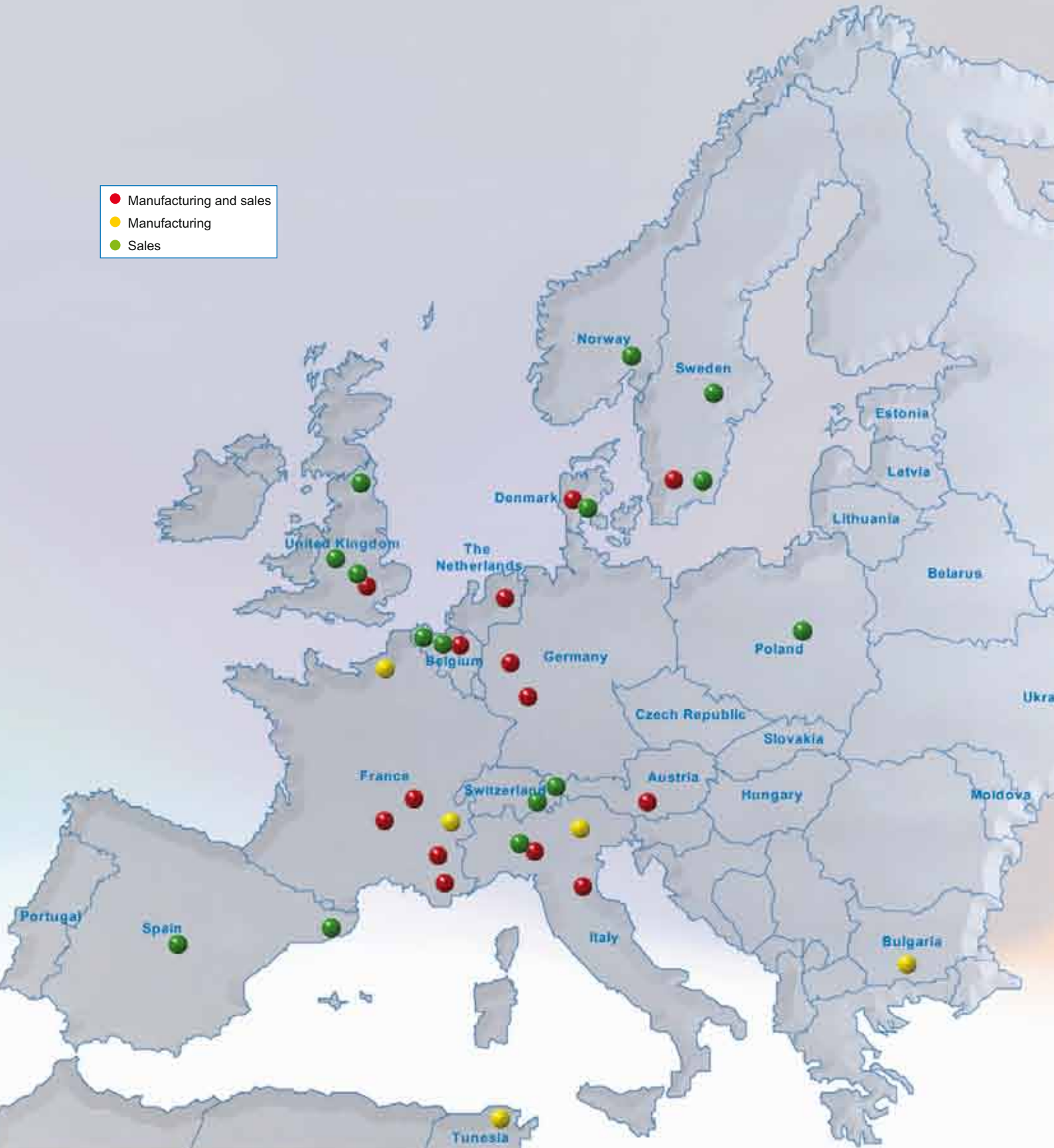
Insert Check Valves

Watts Industries produces an extensive assortment of plastic check valves. These check valves can be found in water meters, shower and bath taps and safety units, but they are also used in boilers, hot water boilers, pumps and (underfloor) heating systems. The check valves are also used in industrial systems.
This in-house production of check valves allows us to respond adequately to market developments, with new products and improvements on existing products.

WATTS®
INDUSTRIES
A Division of Watts Water Technologies Inc.

OUR EUROPEAN PRESENCE



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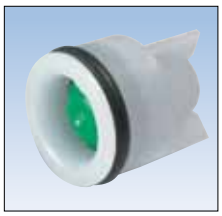
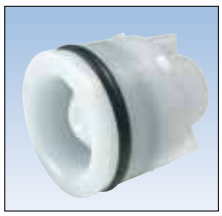


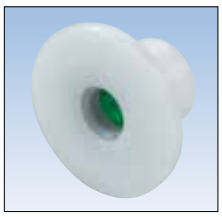
CO - series 4
Chapter CO



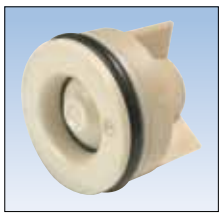
IO - series 22
Chapter IO

CS - series 9
Chapter CS

IW - series 28
Chapter IW



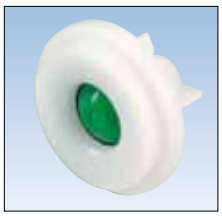
FI - series 10
Chapter FI



TO - series 29
Chapter TO

FO - series 12
Chapter FO

WI - series 30
Chapter WI



FW - series 14
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WM - Series 31
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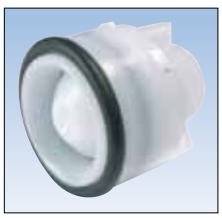

IN - series 16
Chapter IN

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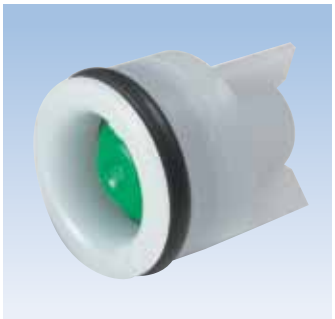


CO010 DN8

The Watts check valve type CO010 with unique sealing principle offers outstanding performances.
These check valves are used in plumbing fittings, sanitary taps and in threaded non-return valves where building codes and international standards are required.

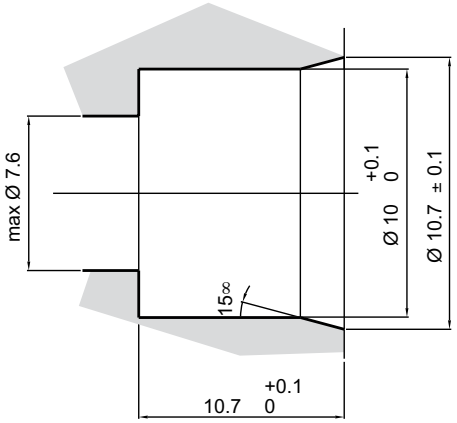
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN8

Approvals	
Kiwa	NL
Belgaqua	BE
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S

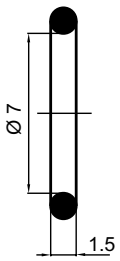
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

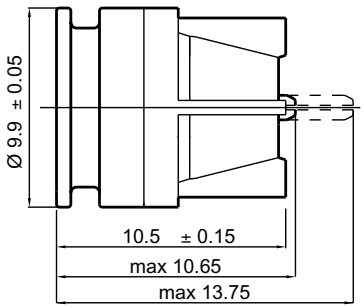
Mounting dimensions



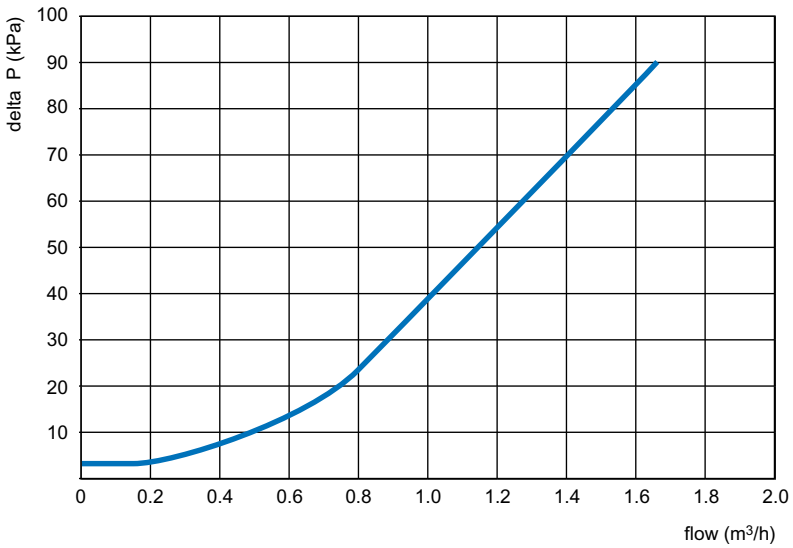
O-ring

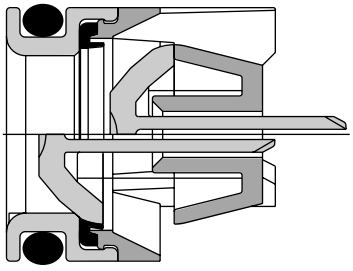


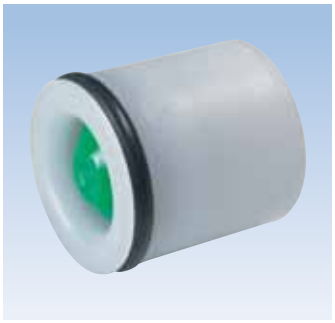
Product dimensions



Pressure loss-curve







CO013 DN10

The Watts check valve type CO013 with unique sealing principle offers outstanding performances.
These check valves are used in plumbing fittings, sanitary taps and in threaded non-return valves where building codes and international standards are required.

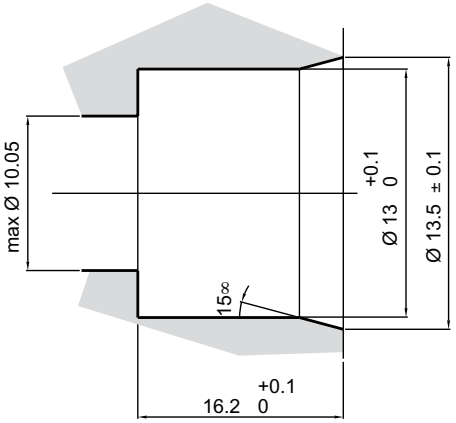
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN10

Approvals	
Kiwa	NL
Belgaqua	BE
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S

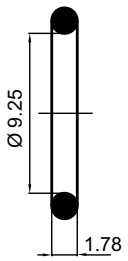
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

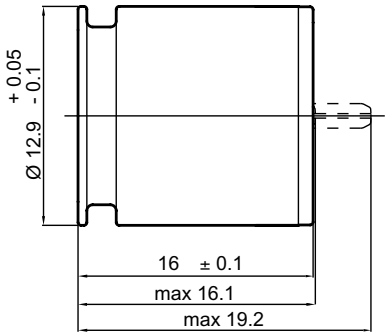
Mounting dimensions



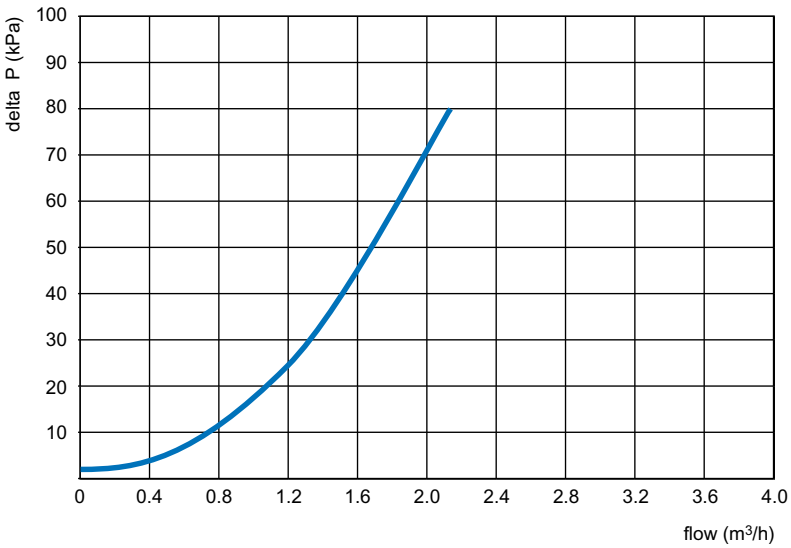
O-ring

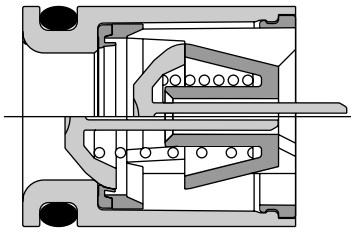


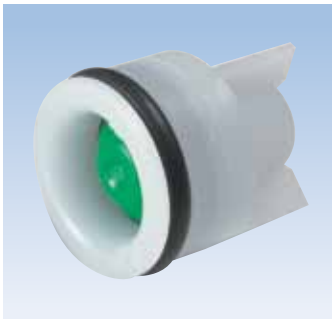
Product dimensions



Pressure loss-curve







CO014 DN10

The Watts check valve type CO014 with unique sealing principle offers outstanding performances.
These check valves are used in plumbing fittings, sanitary taps and in threaded non-return valves where building codes and international standards are required.

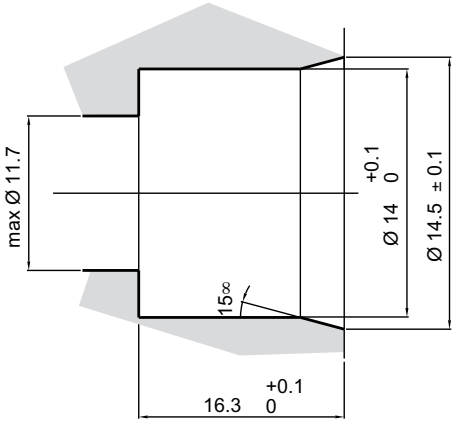
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN10

Approvals	
Kiwa	NL
Belgaqua	BE
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S

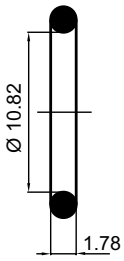
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

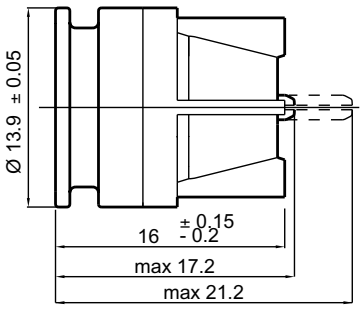
Mounting dimensions



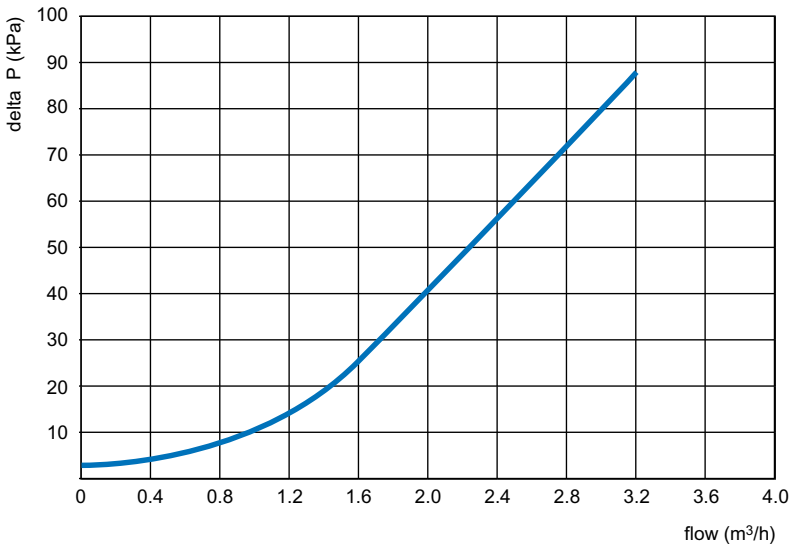
O-ring

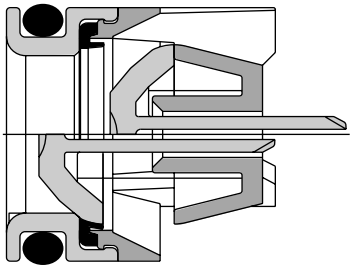


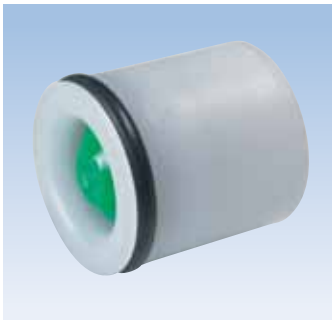
Product dimensions



Pressure loss-curve







CO015 DN10

The Watts check valve type CO015 with unique sealing principle offers outstanding performances.
These check valves are used in plumbing fittings, sanitary taps and in threaded non-return valves where building codes and international standards are required.

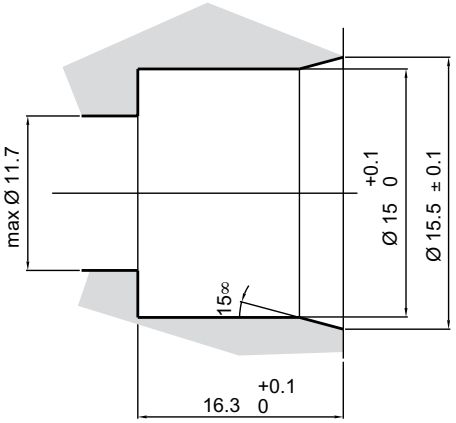
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN10

Approvals	
Kiwa	NL
Belgaqua	BE
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S

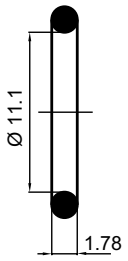
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

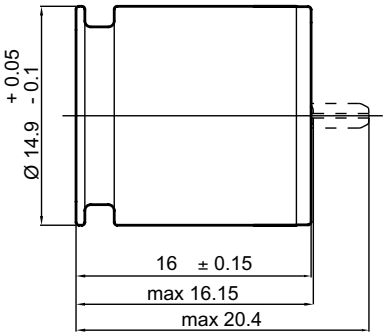
Mounting dimensions



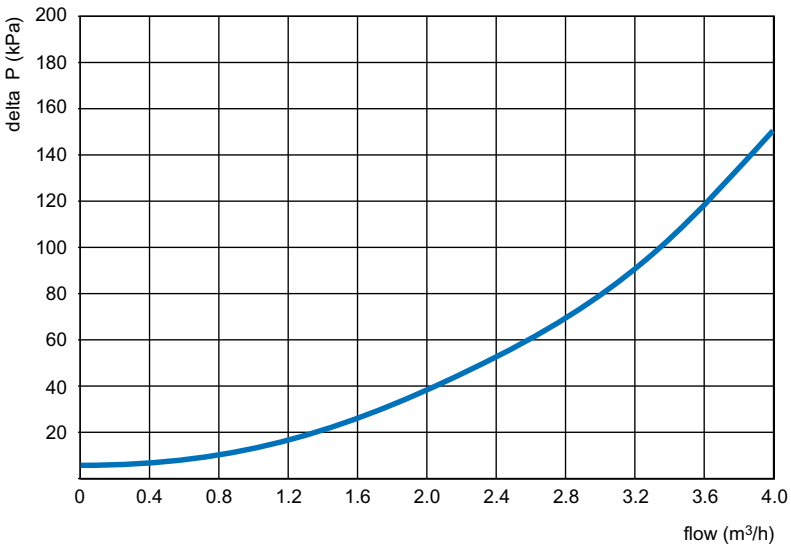
O-ring

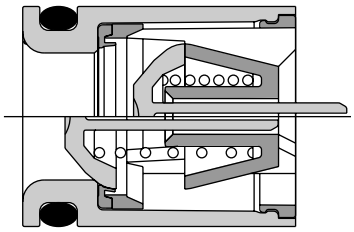


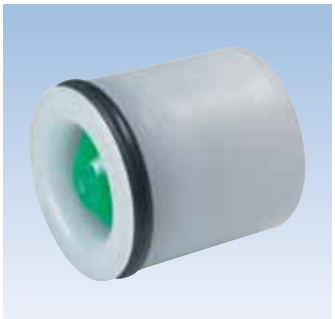
Product dimensions



Pressure loss-curve







CO020 DN15

The Watts check valve type CO020 with unique sealing principle offers outstanding performances.
These check valves are used in plumbing fittings, sanitary taps and in threaded non-return valves where building codes and international standards are required.

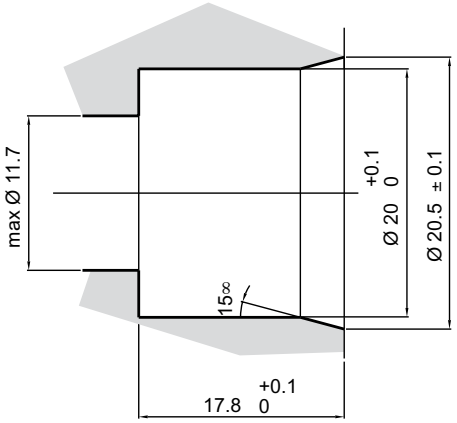
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15

Approvals	
Kiwa	NL
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S
Belgaqua	B

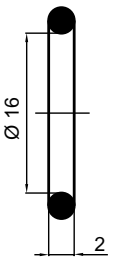
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

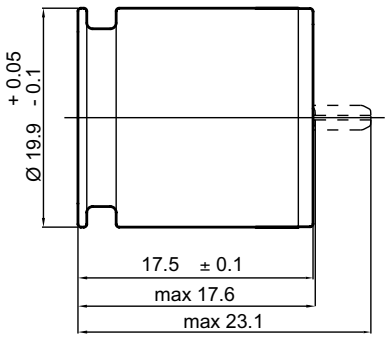
Mounting dimensions



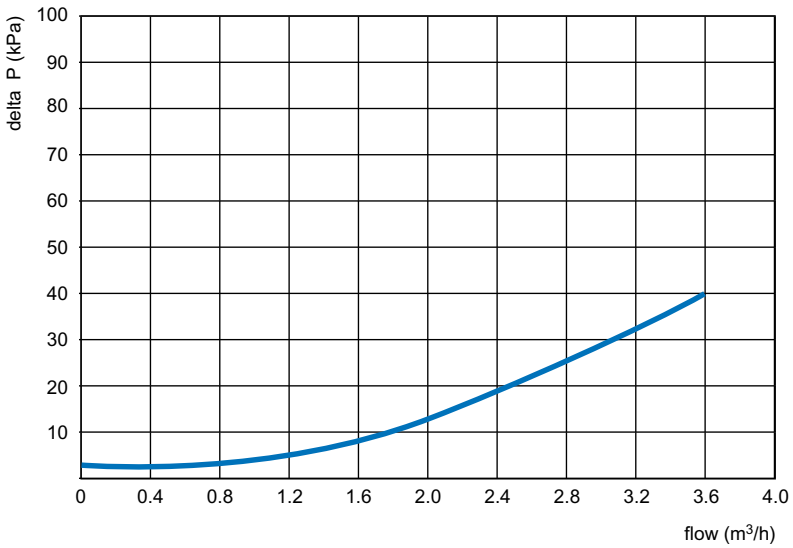
O-ring

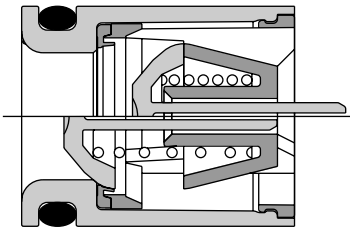


Product dimensions



Pressure loss-curve





CS015 DN10

The Watts check valve type CS015 is the latest generation of check valves.
Not only do these check valves operate ideally, they also offer added advantages:
- identical contours in open and closed position (stem of valve doesn't protrude);
- variable outlet system, facing side or rear side.

The innovative use of materials in these valves renders them more resistant to both chemicals and high temperatures. The CS is also more compact than conventional check valves, and therefore easier to fit!

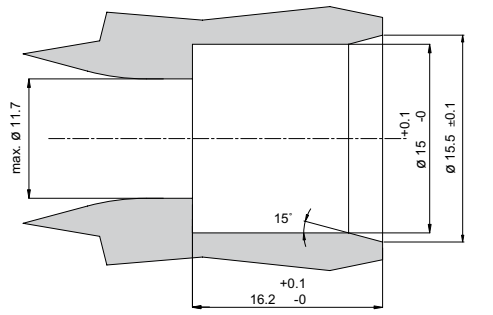
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	30 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN10

Approvals	
Kiwa	NL
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S

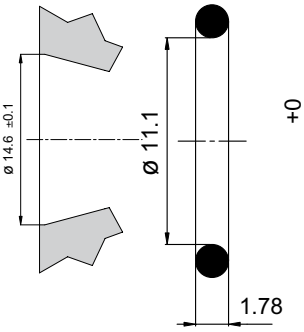
Material specifications	
House	PSU
Valve	PSU
Torpedo	PSU
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

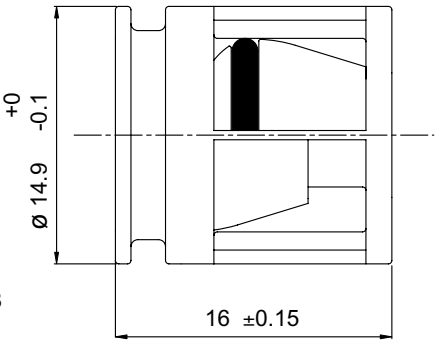
Mounting example



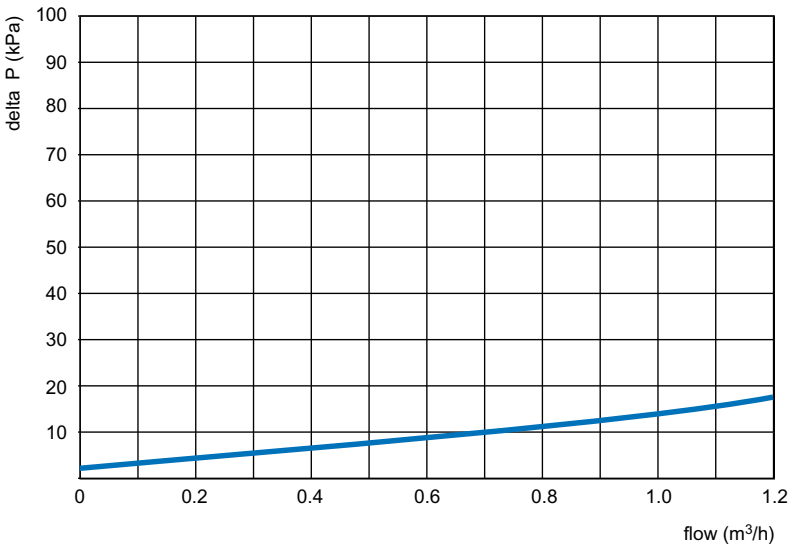
O-ring

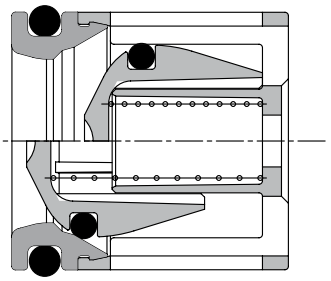


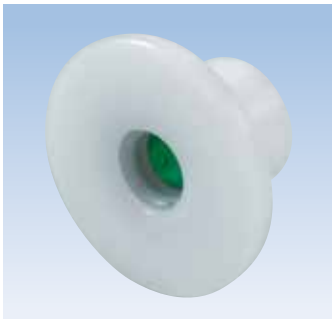
Product dimensions



Pressure loss-curve







FI010 DN8

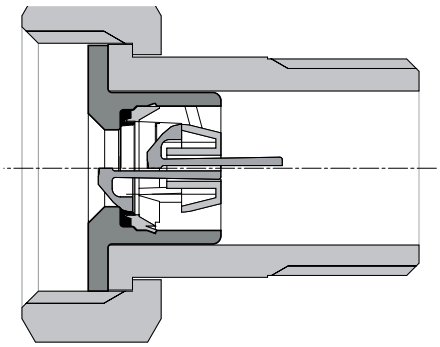
The Watts check valve type FI010 is a perfect slide-in cartridge with added advantages.
The best performance in those inlet sides where tightening has to be simple.
It is marked by its unique construction and its universal applications.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN8

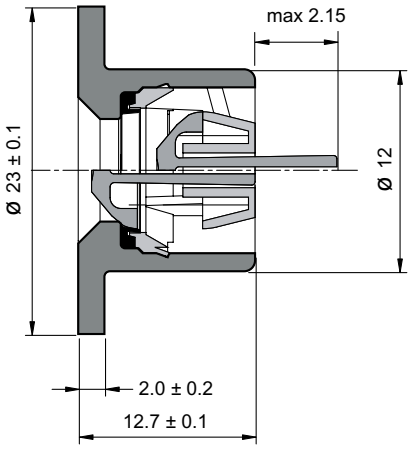
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

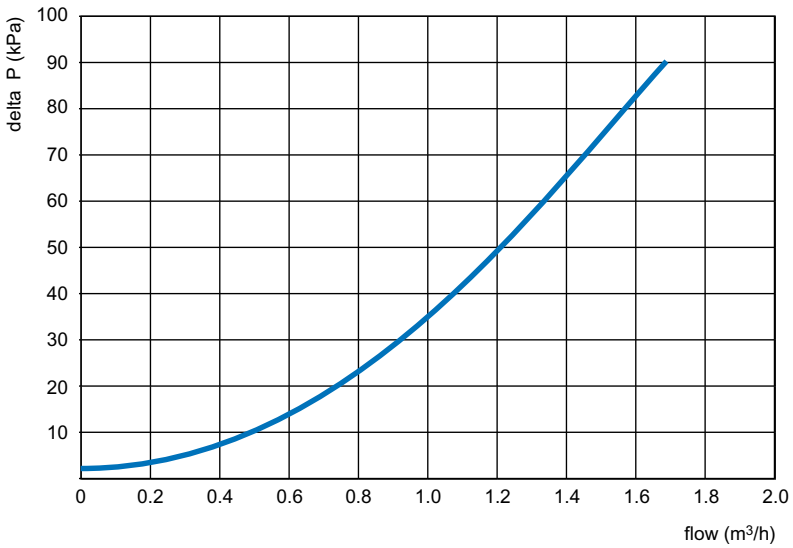
Mounting example

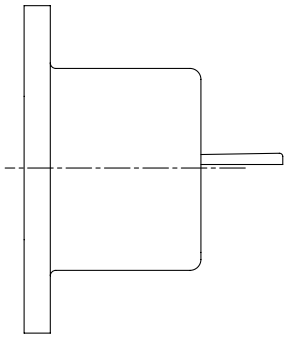


Product dimensions



Pressure loss-curve





FI015 DN15

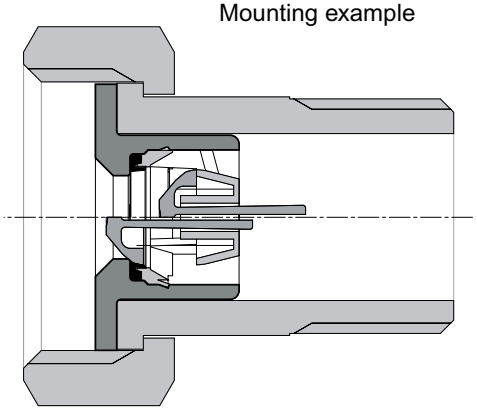
The Watts check valve type FI015 is a perfect slide-in cartridge with added advantages.
The best performance in those inlet sides where tightening has to be simple.
It is marked by its unique construction and its universal applications.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15

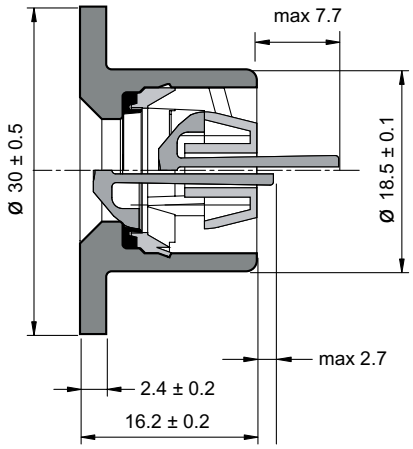
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

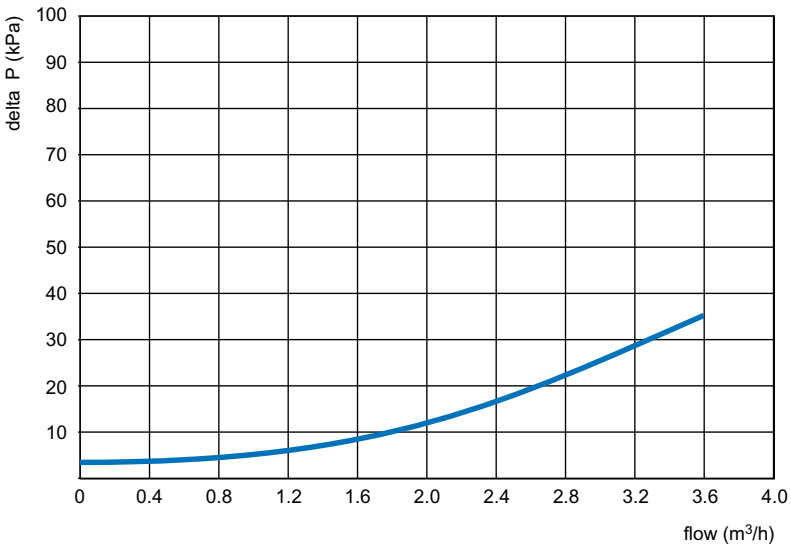
Mounting example

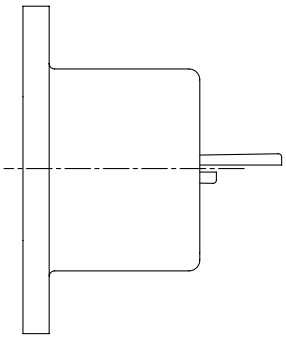


Product dimensions



Pressure loss-curve





FO015 DN15

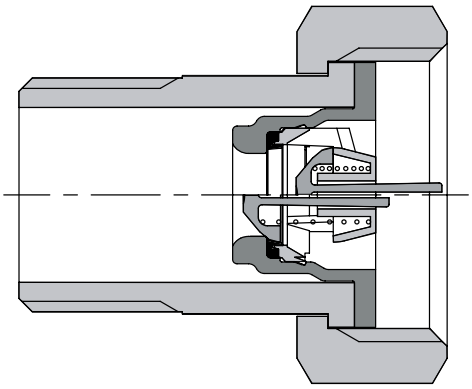
The Watts check valve type FO015 is a perfect slide-in cartridge with added advantages.
The best performance in those outlet sides where tightening has to be simple.
It is marked by its unique construction and its universal applications.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15

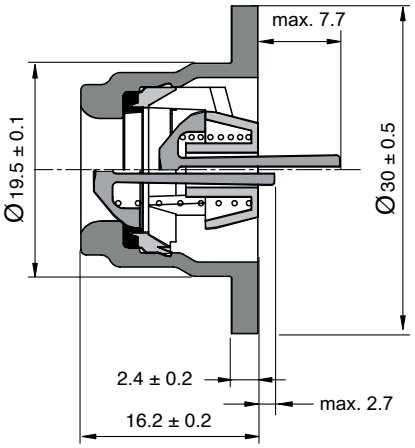
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

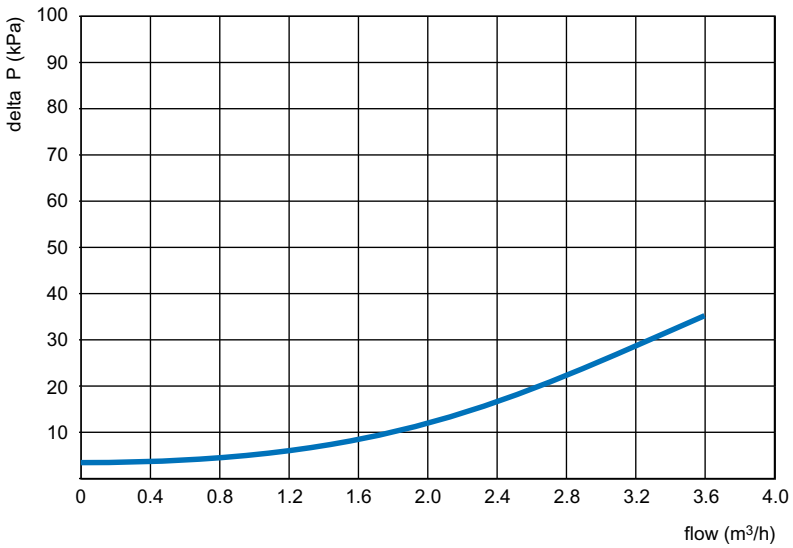
Mounting example

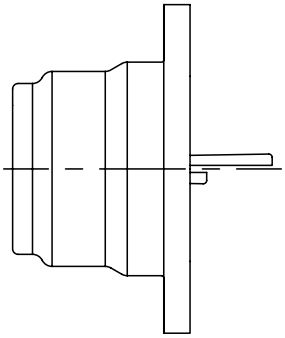


Product dimensions



Pressure loss-curve





FO020 DN20

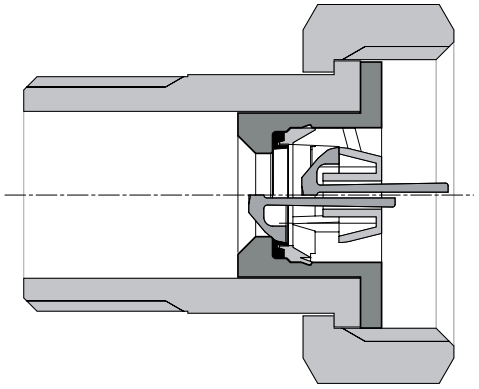
The Watts check valve type FO020 is a perfect slide-in cartridge with added advantages.
The best performance in those outlet sides where tightening has to be simple.
It is marked by its unique construction and its universal applications.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN20

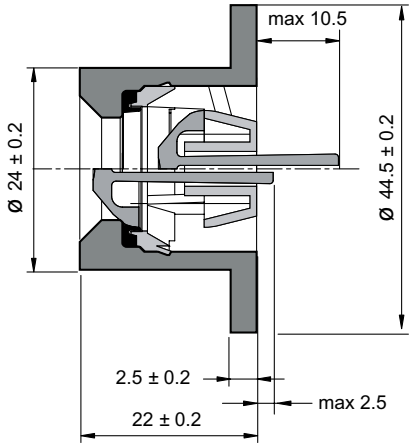
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

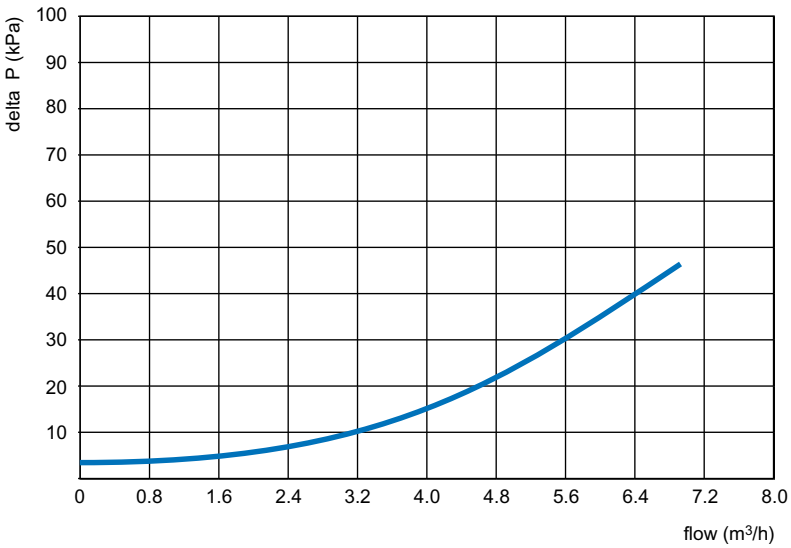
Mounting example

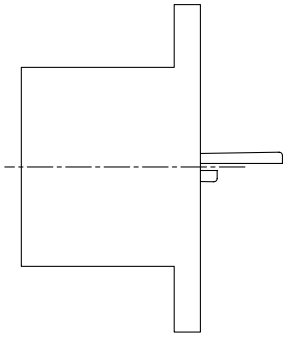


Product dimensions



Pressure loss-curve





FW010 DN10

The Watts check valve type FW010 shows the inventive solutions of Watts Industries.
Our R&D made it for our customers with the same performances they are used to.
Other diameters and closing pressures are also possible.

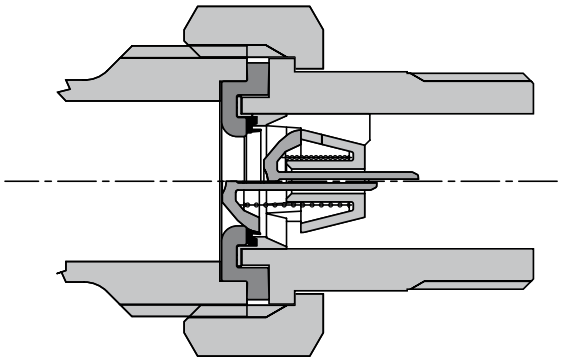
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN10

Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D

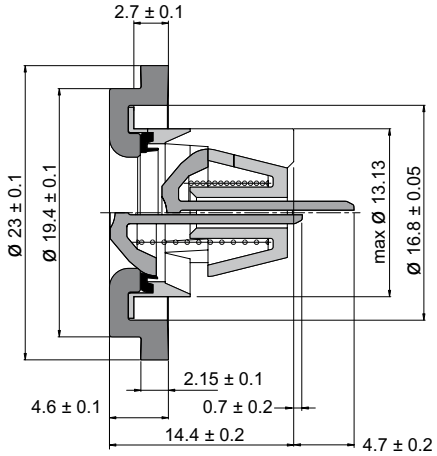
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

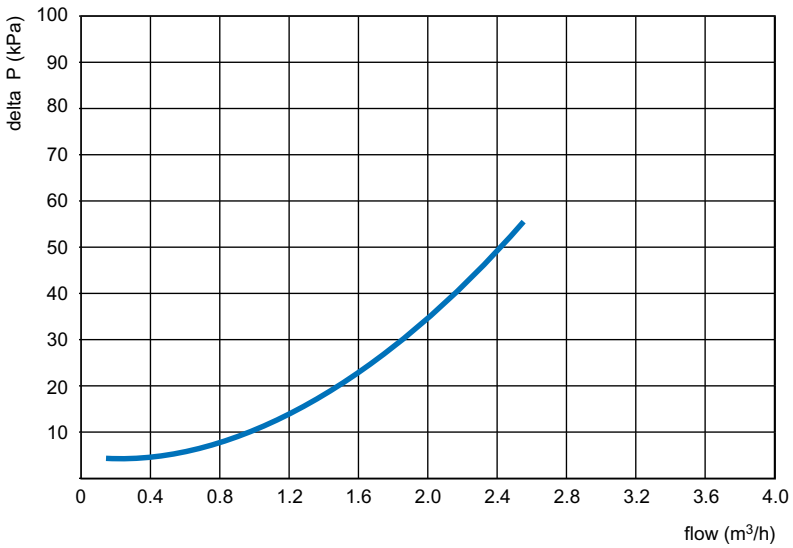
Mounting example

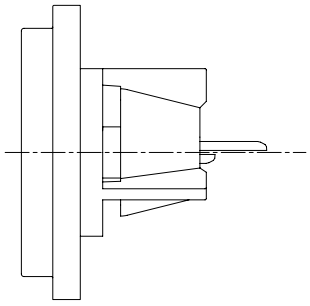


Product dimensions



Pressure loss-curve





FW015 DN15

The Watts check valve type FW015 shows the inventive solutions of Watts Industries.
Our R&D made it for our customers with the same performances the are used to.
Other diameters and closing pressures are also possible.

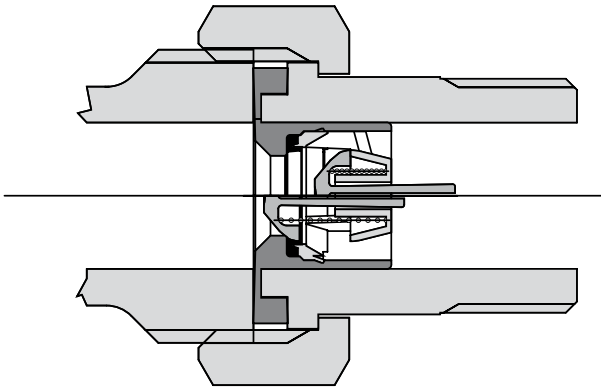
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15

Approvals	
Belgaqua	B

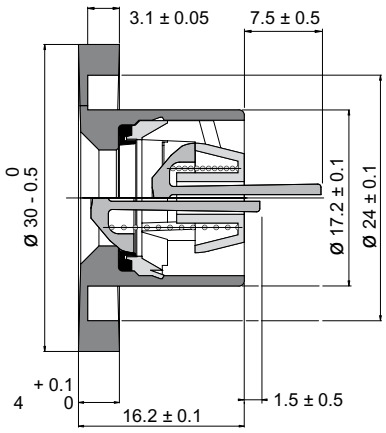
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

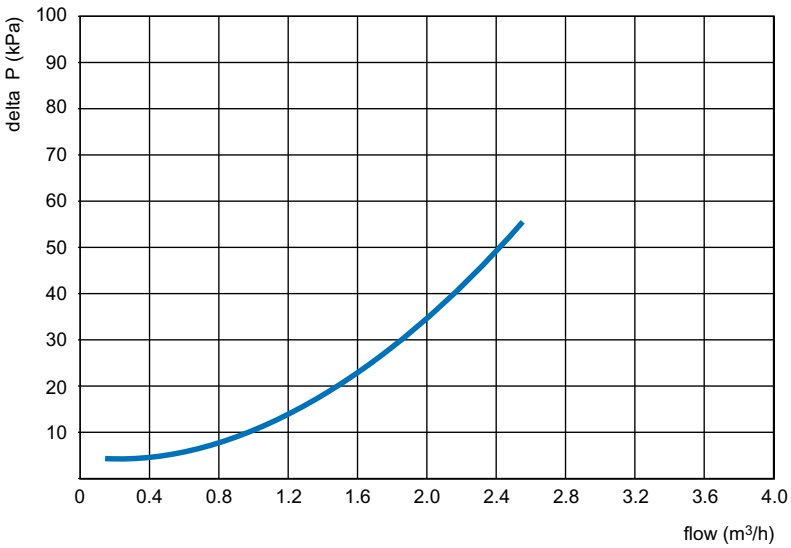
Mounting example

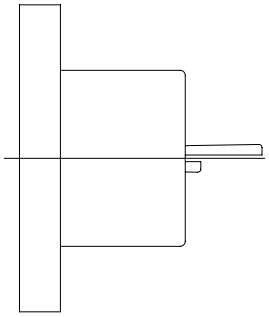


Product dimensions



Pressure loss-curve





IN015 DN15

The Watts snap-in valve type IN015 is a compact and therefore easy to install check valve. The advantage for OEM applications is, that in case of a side-connection in the housing, the O-ring can be mounted first and secondly the check valve itself. This way the O-ring will not be damaged by the sharp edges of the side-connection.This check valve will meet all quality requirements.
Its advantages are yours.

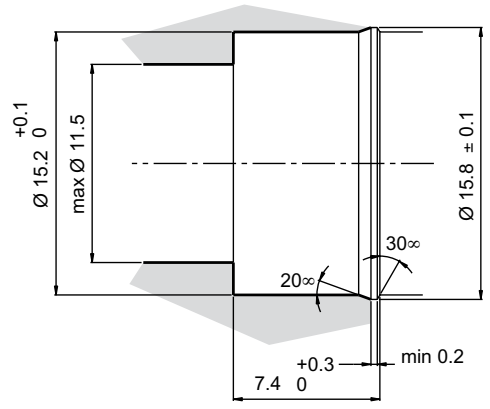
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN 15

Approvals	
Kiwa	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
Belgaqua	B

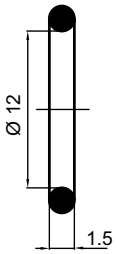
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

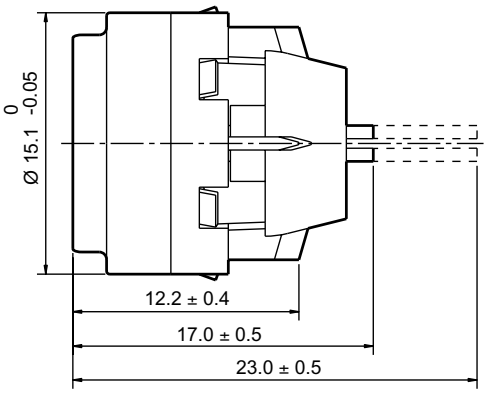
Mounting example



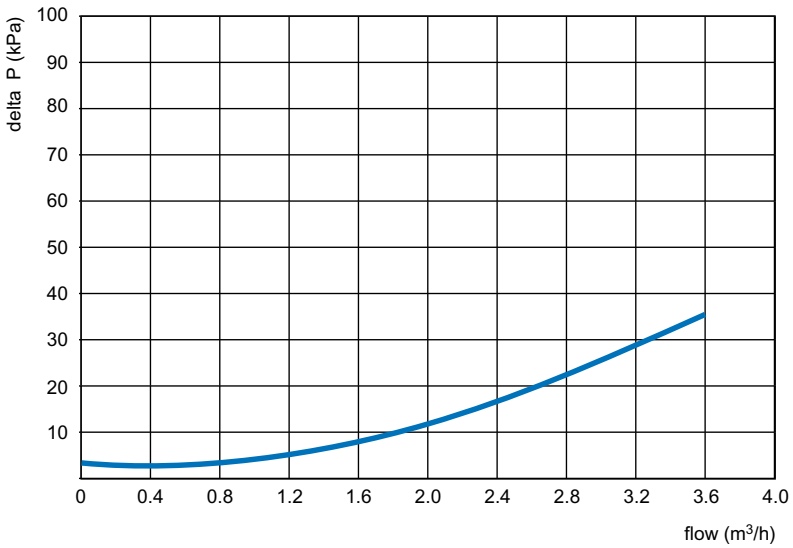
O-ring

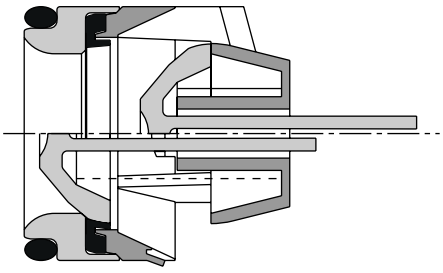


Product dimensions



Pressure loss-curve





IN020 DN20

The Watts snap-in valve type IN020 is a compact and therefore easy to install check valve. The advantage for OEM applications is, that in case of a side-connection in the housing, the O-ring can be mounted first and secondly the check valve itself. This way the O-ring will not be damaged by the sharp edges of the side-connection. This check valve will meet all quality requirements.
Its advantages are yours.

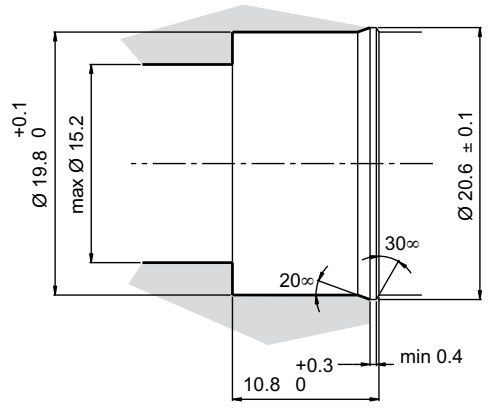
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN20

Approvals	
Kiwa	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
Belgaqua	B

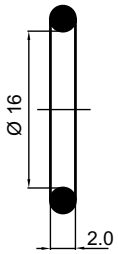
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

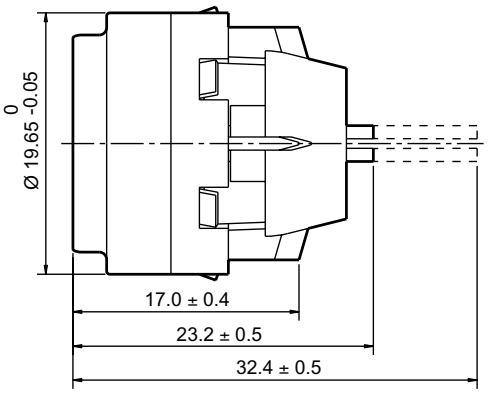
Mounting dimensions



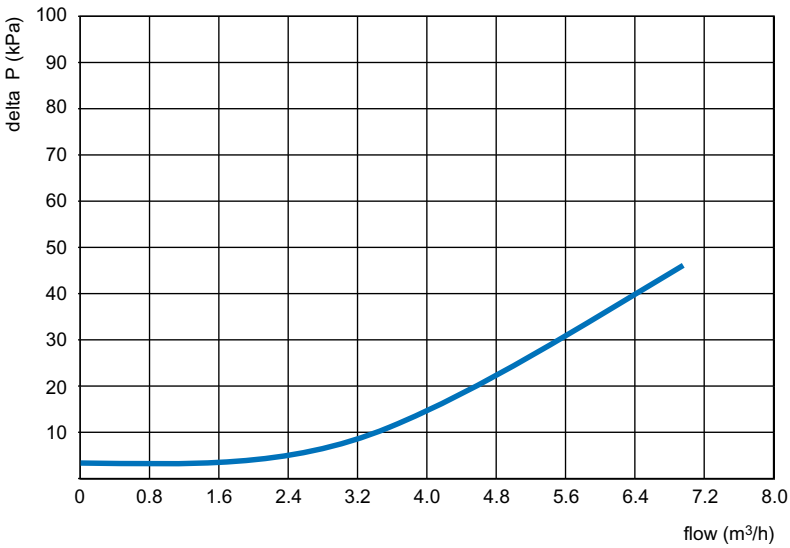
O-ring

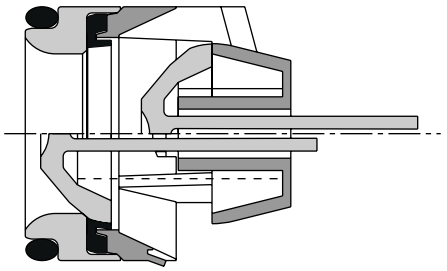


Product dimensions



Pressure loss-curve





IN025 DN25

The Watts snap-in valve type IN025 is a compact and therefore easy to install check valve. The advantage for OEM applications is, that in case of a side-connection in the housing, the O-ring can be mounted first and secondly the check valve itself. This way the O-ring will not be damaged by the sharp edges of the side-connection. This check valve will meet all quality requirements.
Its advantages are yours.

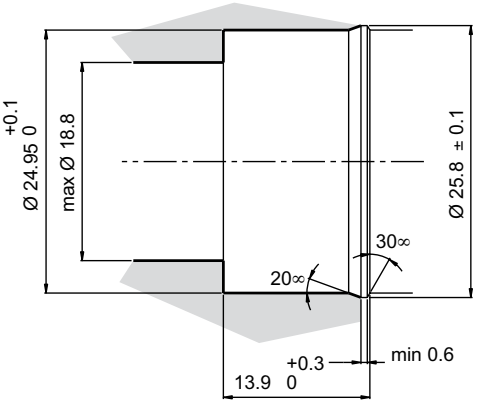
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN25

Approvals	
Kiwa	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
Belgaqua	B

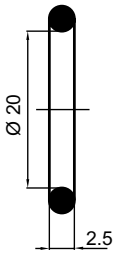
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

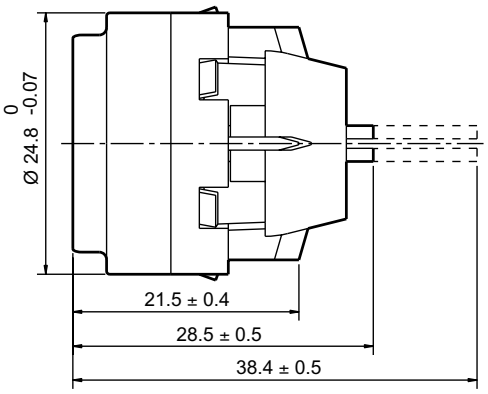
Mounting dimensions



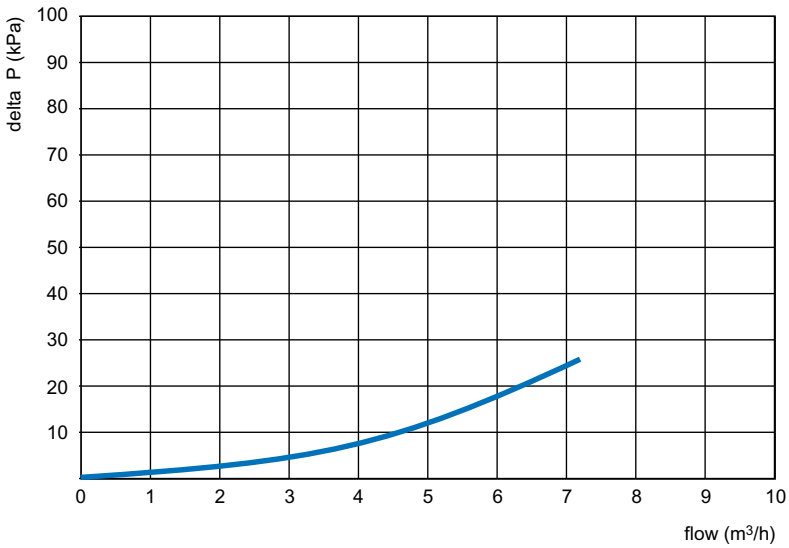
O-ring

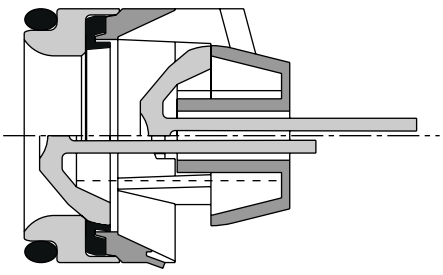


Product dimensions



Pressure loss-curve





IN032 DN32

The Watts snap-in valve type IN032 is a compact and therefore easy to install check valve. The advantage for OEM applications is, that in case of a side-connection in the housing, the O-ring can be mounted first and secondly the check valve itself. This way the O-ring will not be damaged by the sharp edges of the side-connection. This check valve will meet all quality requirements.
Its advantages are yours.

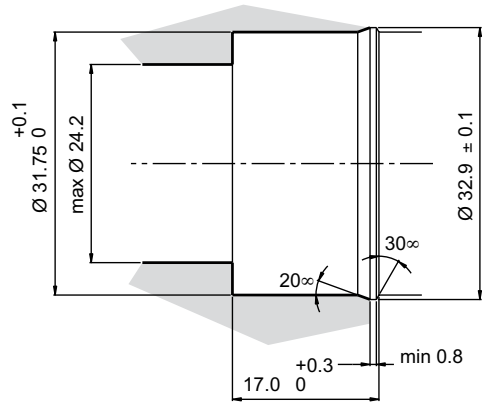
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN32

Approvals	
Kiwa	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
Belgaqua	B

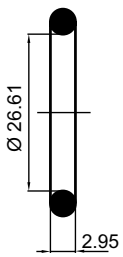
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

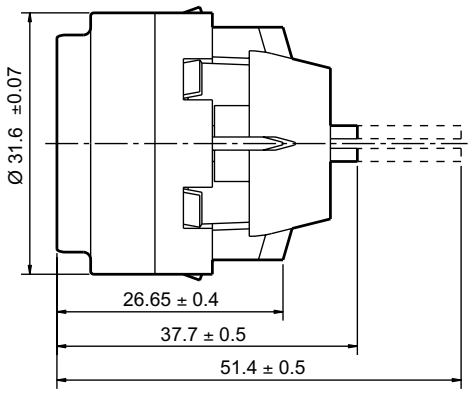
Mounting dimensions



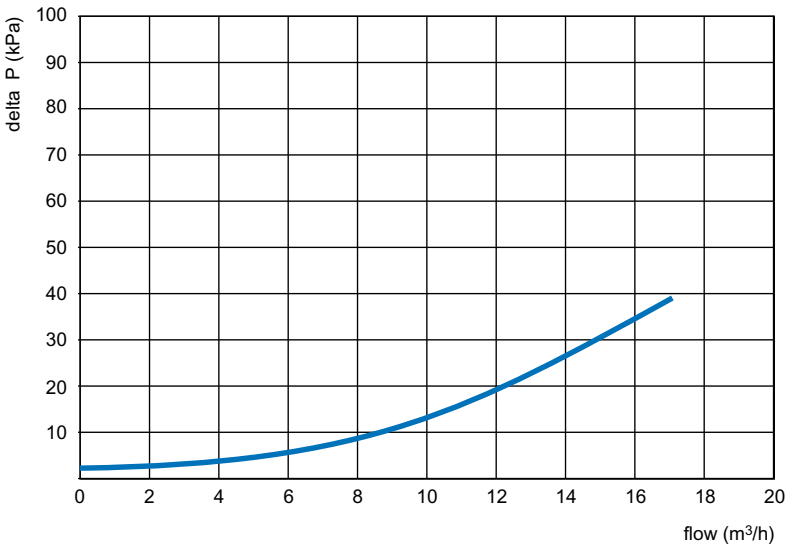
O-ring

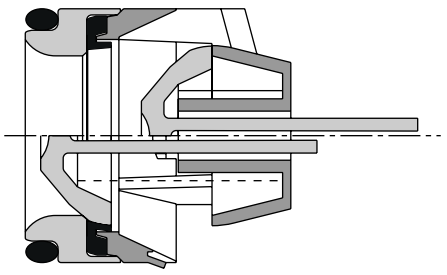


Product dimensions



Pressure loss-curve





IN040 DN40

The Watts snap-in valve type IN040 is a compact and therefore easy to install check valve. The advantage for OEM applications is, that in case of a side-connection in the housing, the O-ring can be mounted first and secondly the check valve itself. This way the O-ring will not be damaged by the sharp edges of the side-connection. This check valve will meet all quality requirements.
Its advantages are yours.

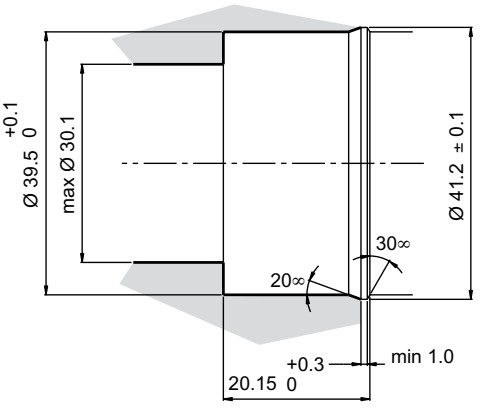
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN40

Approvals	
Kiwa	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
Belgaqua	B

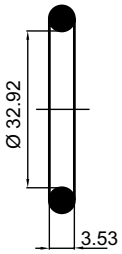
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

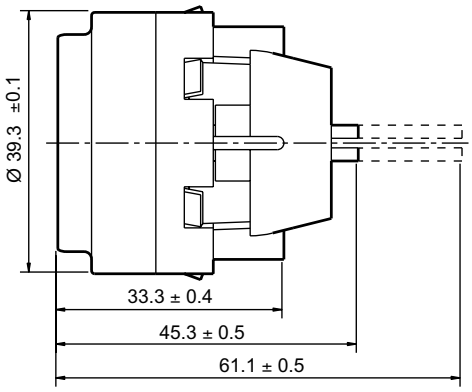
Mounting dimensions



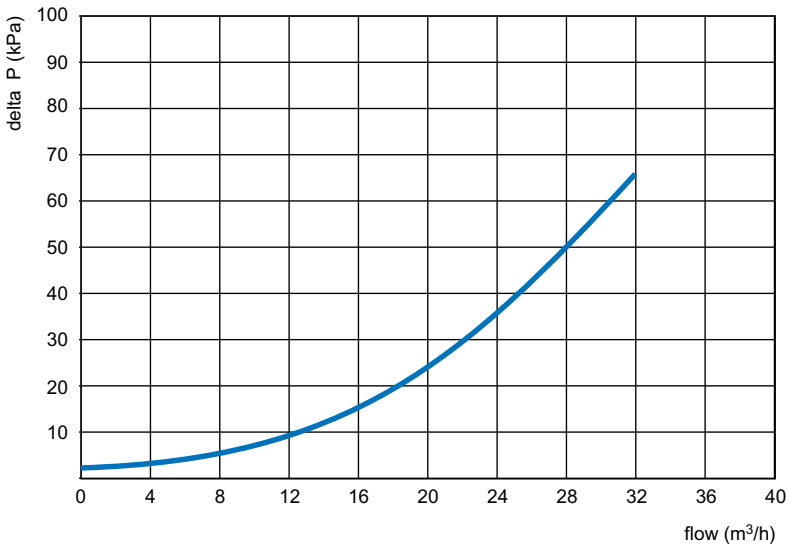
O-ring

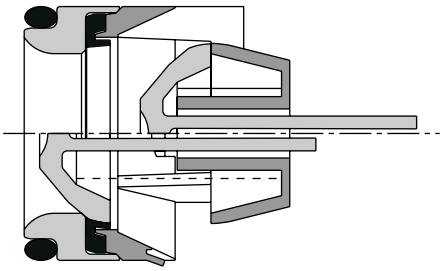


Product dimensions



Pressure loss-curve





IN050 DN50

The Watts snap-in valve type IN050 is a compact and therefore easy to install check valve. The advantage for OEM applications is, that in case of a side-connection in the housing, the O-ring can be mounted first and secondly the check valve itself. This way the O-ring will not be damaged by the sharp edges of the side-connection. This check valve will meet all quality requirements.
Its advantages are yours.

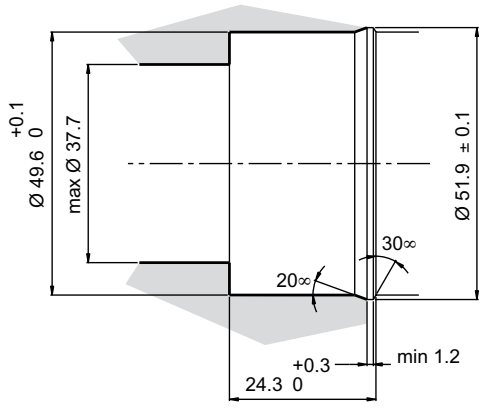
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN50

Approvals	
Kiwa	NL
SITAC	S
DVGW	D
NF	F
WRAS	UK
ETA	DK
Belgaqua	B

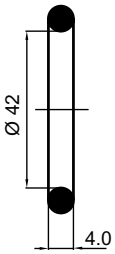
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

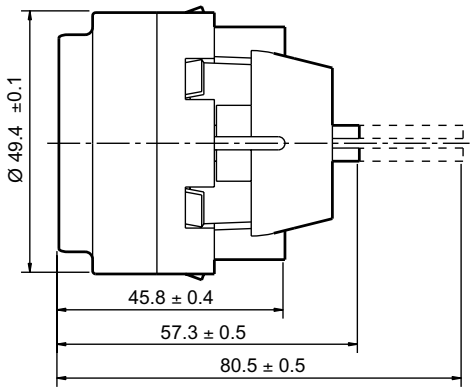
Mounting dimensions



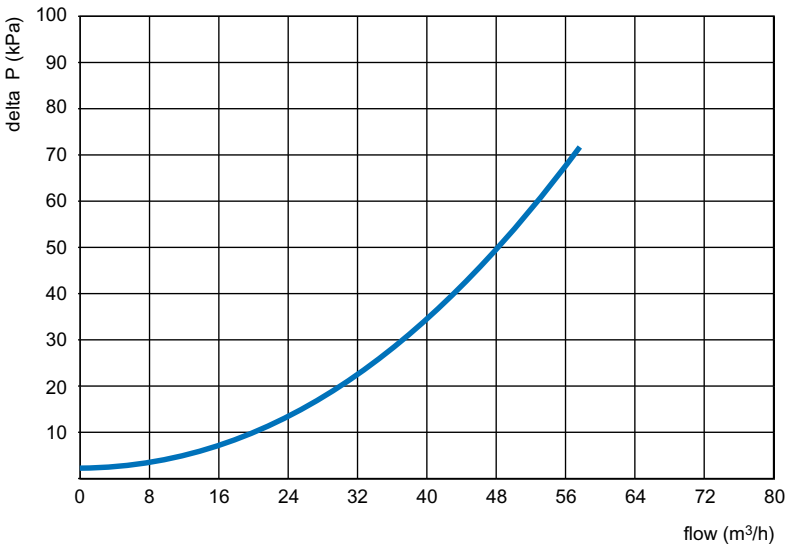
O-ring

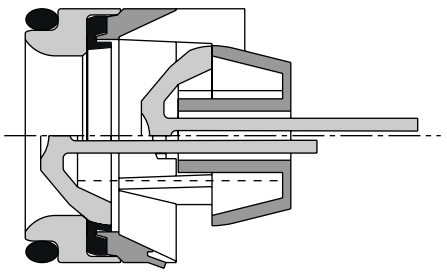


Product dimensions



Pressure loss-curve





IO015 DN15

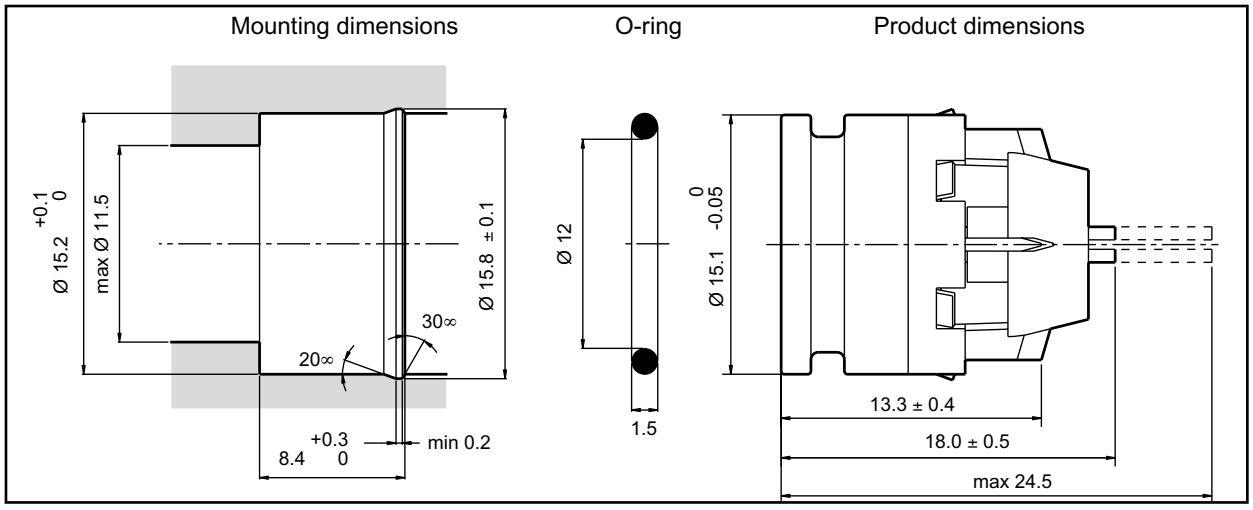
To meet the ever increasing quality requirements, Watts developed the snap-in check valve type IO015.
The O-ring is already mounted and fixated on the check valve, thus creating an easy to mount check valve.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15

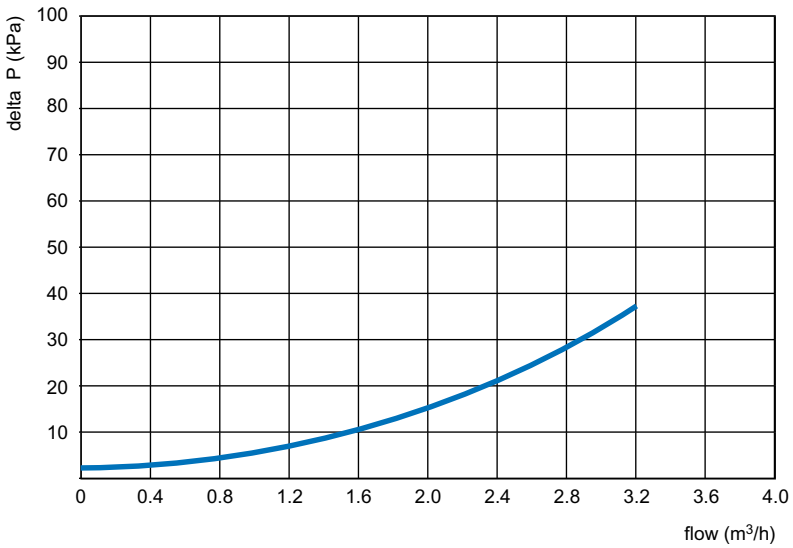
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

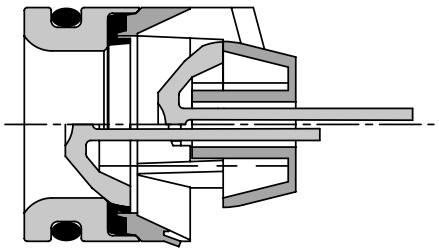
Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D
NF	F
WRAS	UK
ETA	DK
SITAC	S
SVGW	CH

Other diameters and other closing pressures on request.



Pressure loss-curve





IO020 DN20

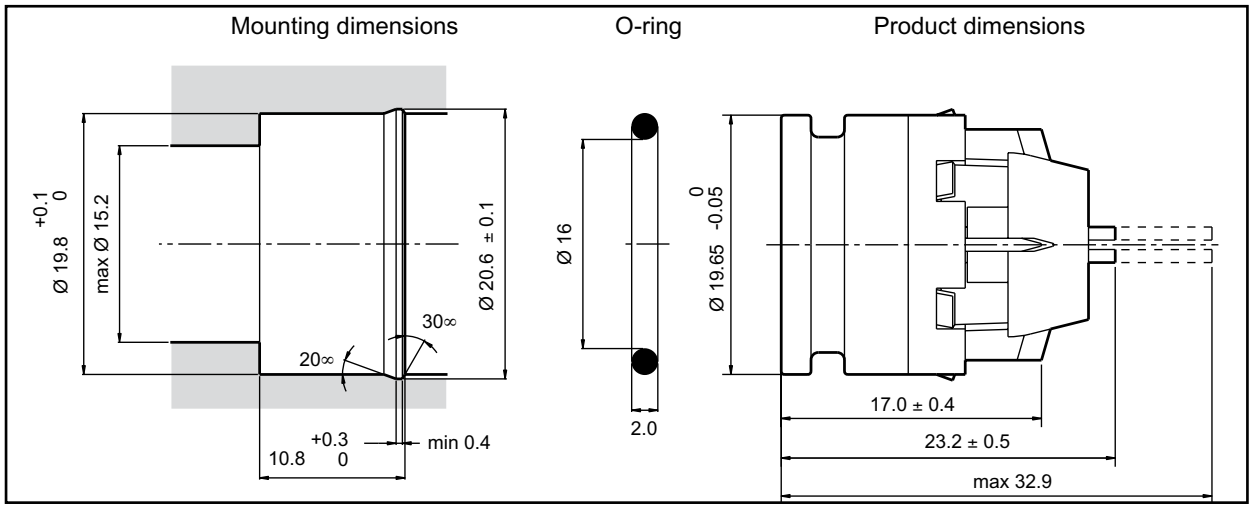
To meet the ever increasing quality requirements, Watts Industries developed the snap-in check valve type IO020.
The O-ring is already mounted and fixated on the check valve, thus creating an easy to mount check valve.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN20

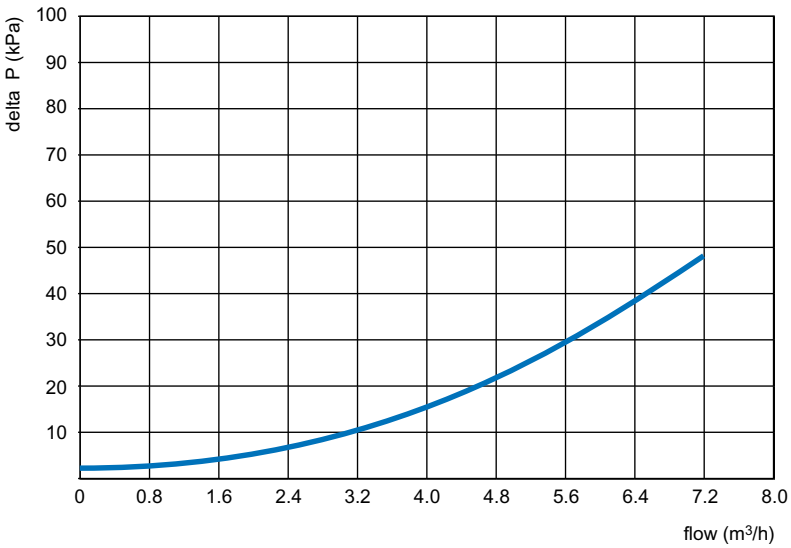
Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D
NF	F
WRAS	UK
ETA	DK
SVGW	CH

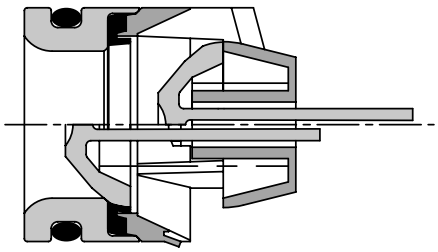
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





IO025 DN25

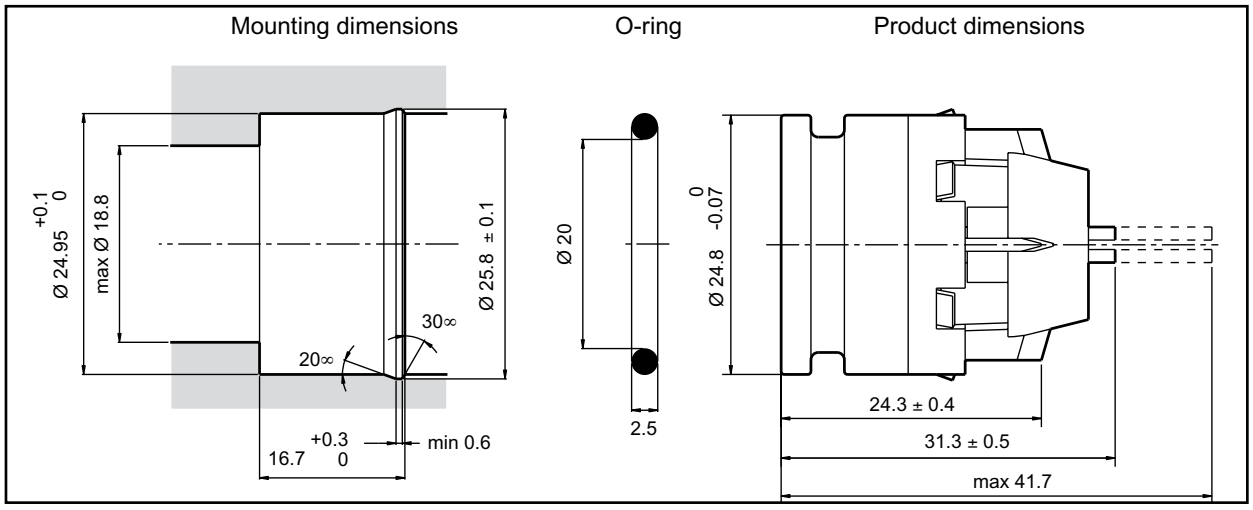
To meet the ever increasing quality requirements, Watts Industries developed the snap-in check valve type IO025.
The O-ring is already mounted and fixated on the check valve, thus creating an easy to mount check valve.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN25

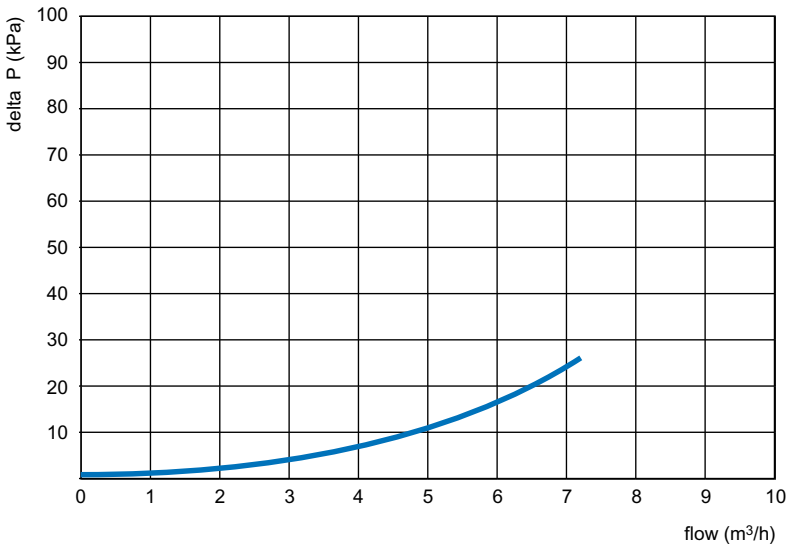
Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D
NF	F
WRAS	UK
ETA	DK
SVGW	CH

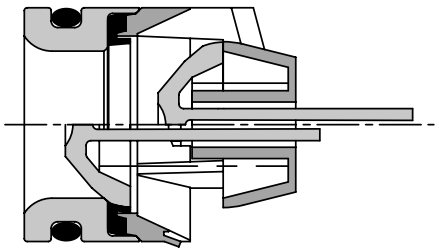
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





IO032 DN32

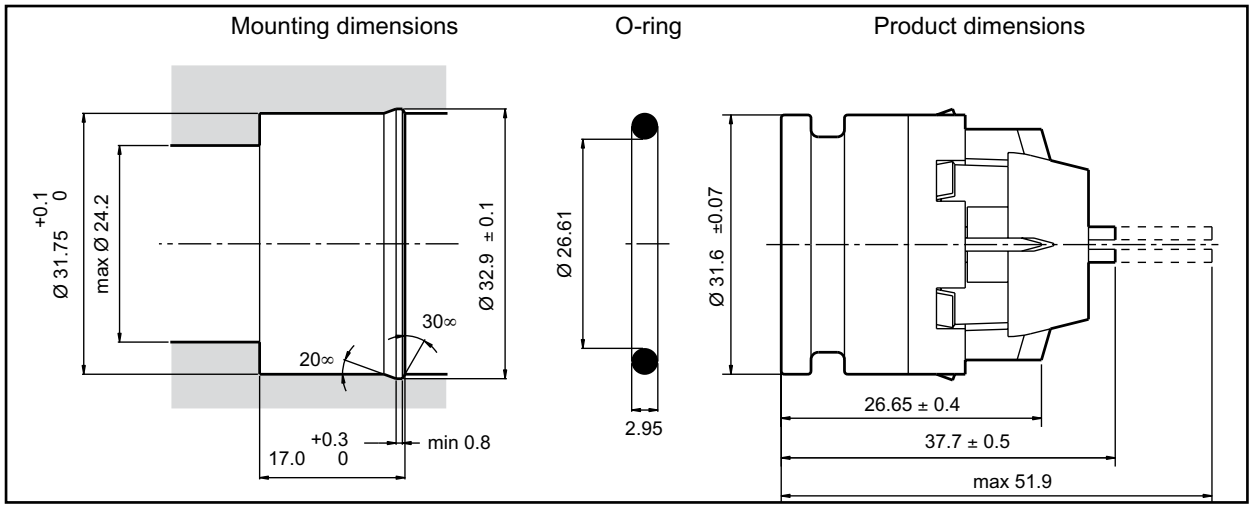
To meet the ever increasing quality requirements, Watts Industries developed the snap-in check valve type IO032.
The O-ring is already mounted on the check valve and keeps fixed, which creates an easy to fit check valve.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN32

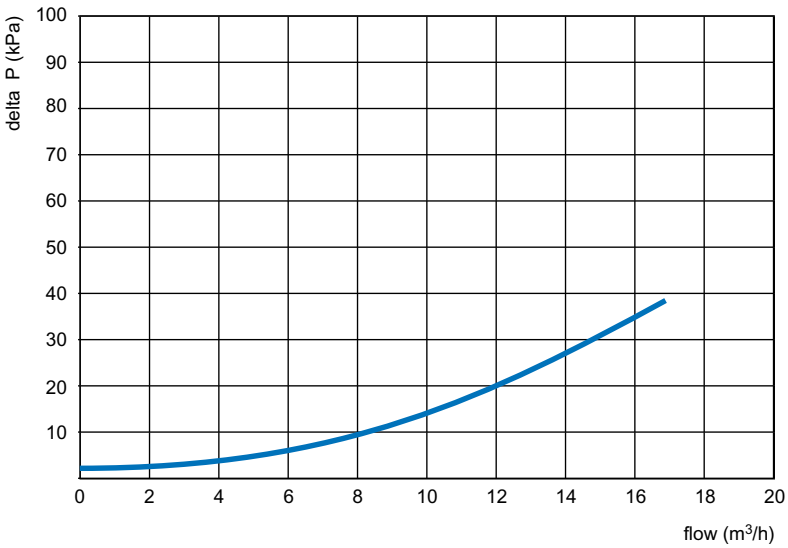
Approvals	
Kiwa	NL
DVGW	D
WRAS	UK
ETA	DK
Belgaqua	B
NF	F

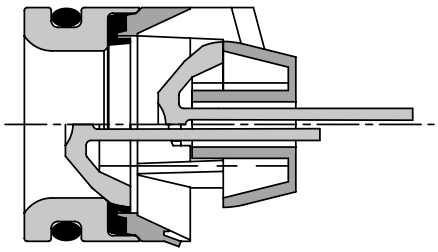
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





IO040 DN40

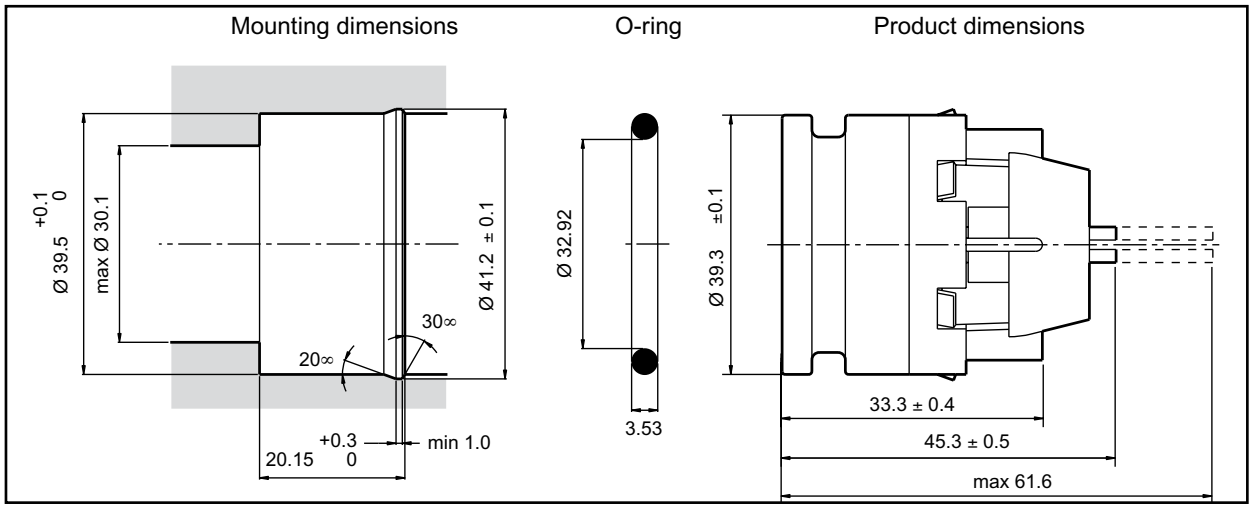
To meet the ever increasing quality requirements, Watts Industries developed the snap-in check valve type IO040.
The O-ring is already mounted and fixated on the check valve, thus creating an easy to mount check valve.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN40

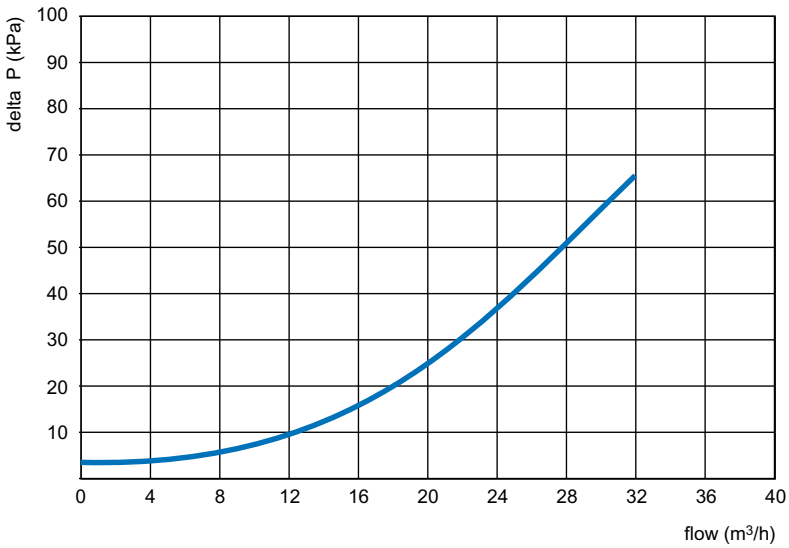
Approvals	
Kiwa	NL
DVGW	D
ETA	DK
Belgaqua	B
SVGW	CH

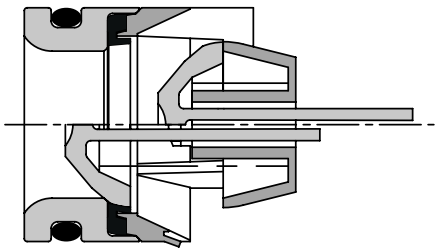
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





IO050 DN50

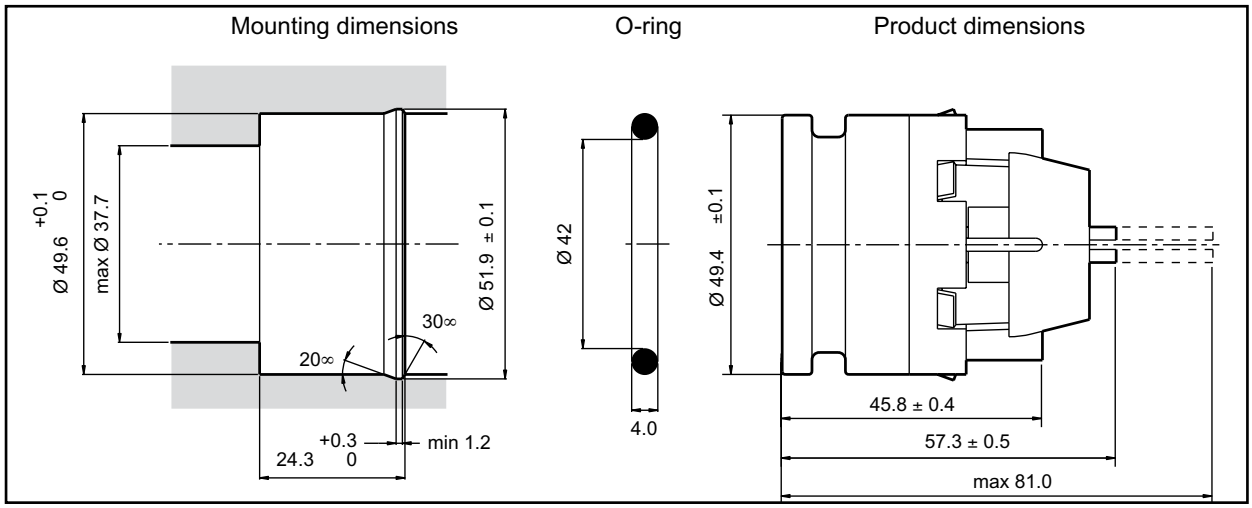
To meet the ever increasing quality requirements, Watts Industries developed the snap-in check valve type IO050.
The O-ring is already mounted and fixated on the check valve, thus creating an easy to mount check valve.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN50

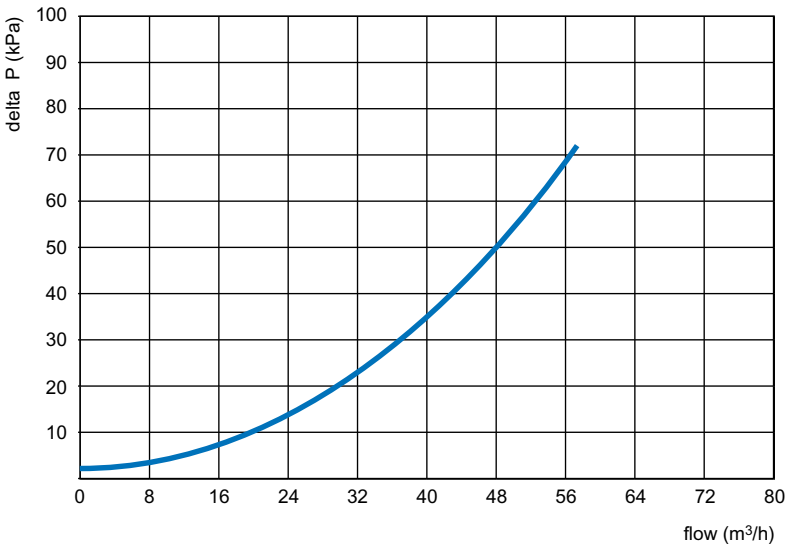
Approvals	
Kiwa	NL
DVGW	D
WRAS	UK
ETA	DK
SVGW	CH
Belgaqua	B
NF	F

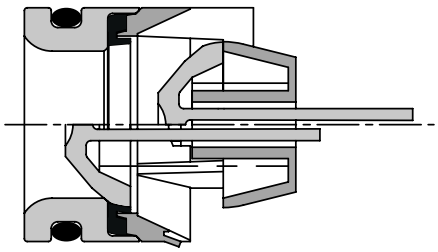
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





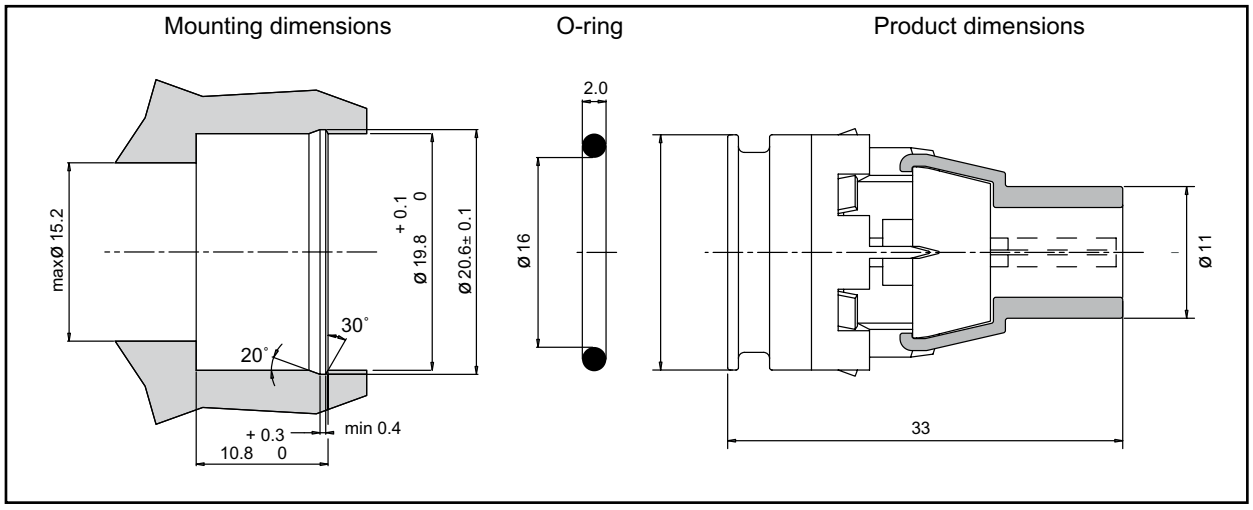
IW020 DN20

The Watts check valve type IW020 shows the inventive solutions of Watts Industries.
Our R&D made this check valve for our customers with the same performances they are used to.
Other diameters and closing pressures are also possible.

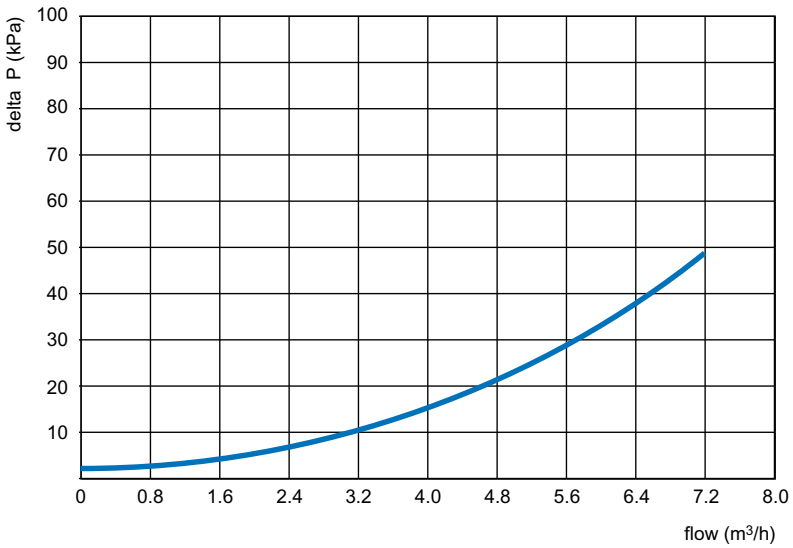
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN20

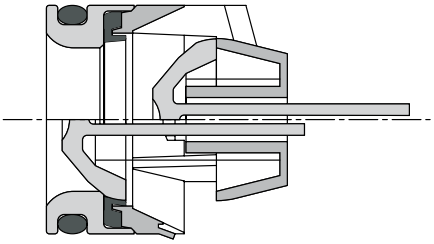
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





TO015 DN15

The TO015 is specially designed for hydraulic safety groups that are fitted to the cold water supply of storage water heaters. This special valve is tested according to the EN1487and will stand a maximum half hour of heavy treatment with saturated steam up to 180°C during calamities. Due to the PPS material, the TO015 valve will keep its form and function. The lip-seal is mounted in such a way that it will survive the passage of high temperature steam during this simulated calamity.

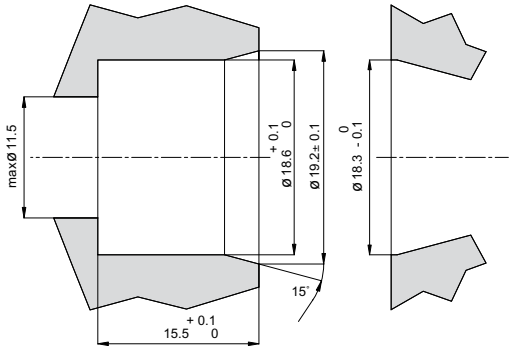
Technical specifications	
Working pres.	PN10
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15
Product related requirement ½ hour at 180°C with saturated steam at 8 bar.	One time destructieve test,

Material specifications	
House	PPS
Valve	PPS
Torpedo	PPS
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

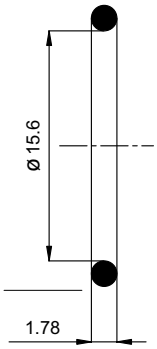
Approvals	
NF	F
Belgaqua	B

Other diameters and other closing pressures on request.

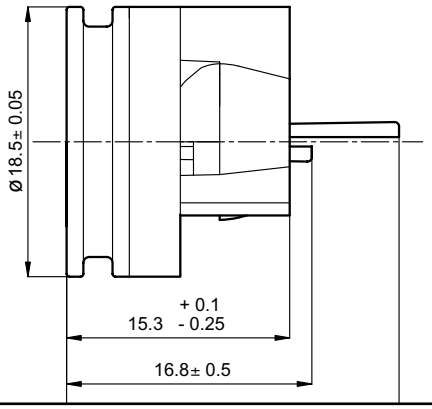
Mounting dimensions



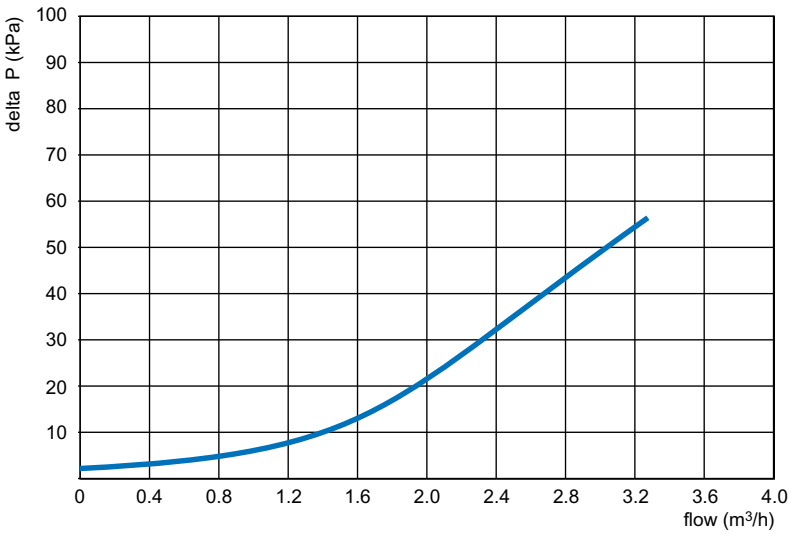
O-ring

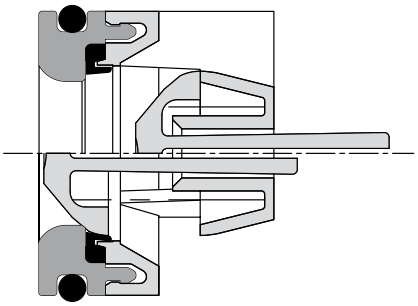


Product dimensions



Pressure loss-curve





WI020 DN20

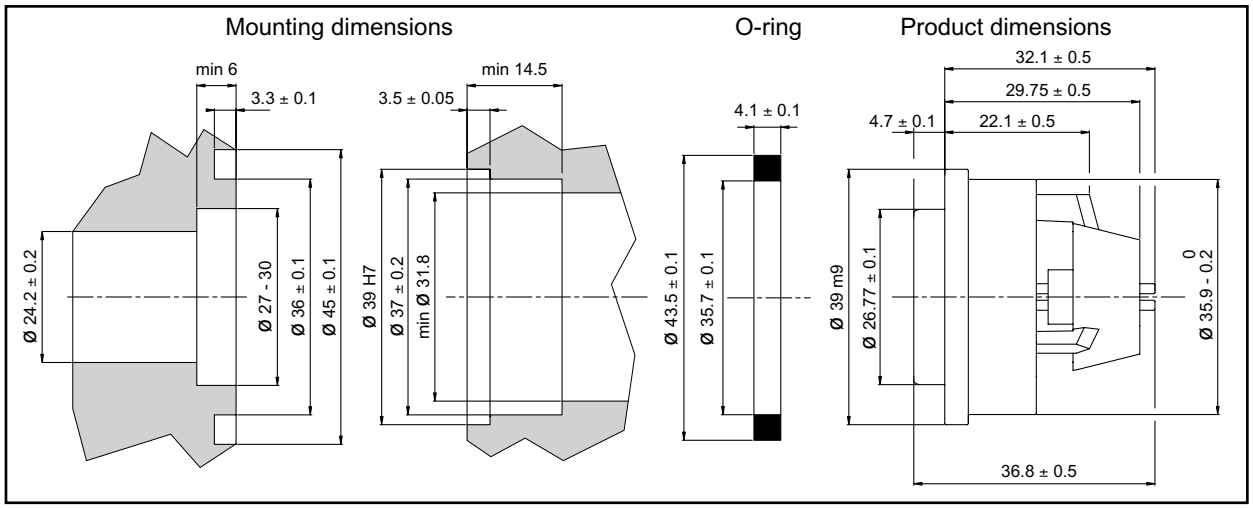
The Watts check valve type WI020 shows the inventive solutions of Watts Industries.
Our R&D made this check valve for our customers with the same performances they are used to.
Other diameters and closing pressures are also optional.

Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN20

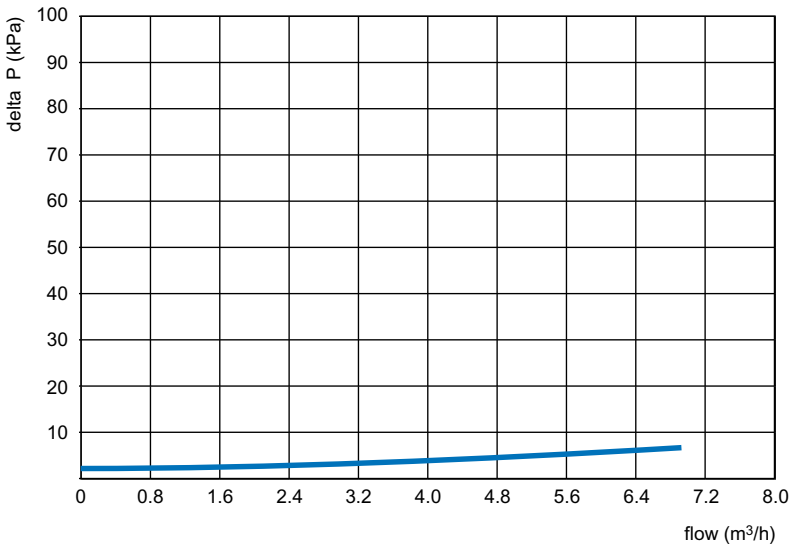
Approvals	
Kiwa	NL
DVGW	D
Belgaqua	B

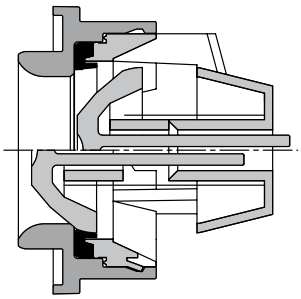
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
O-ring	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.



Pressure loss-curve





WM015 DN15

The Watts slide-in check valve type WM015 features a noiseless operation, very low pressure loss and absolute sealing at high and low back pressures.
The split valve stem principle guarantees a trouble free operation for many years.

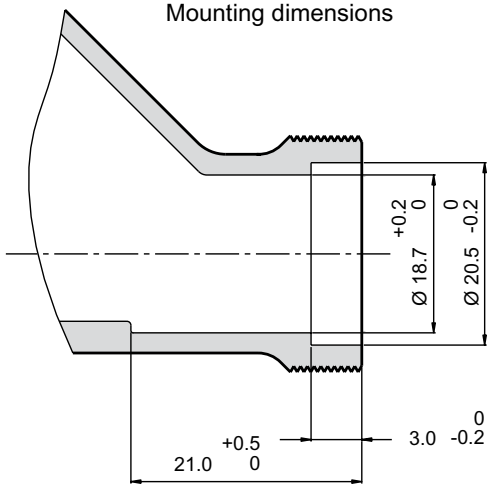
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN15

Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D
NF	F
ETA	DK
SITAC	S

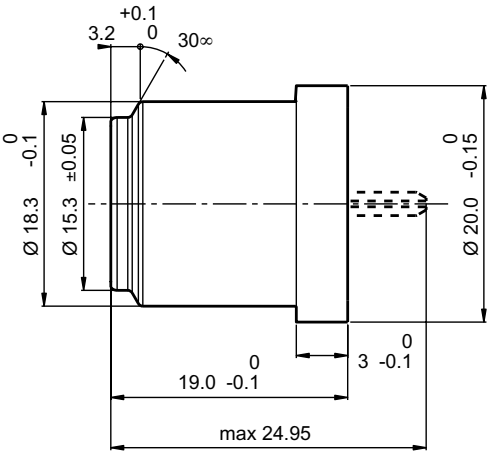
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

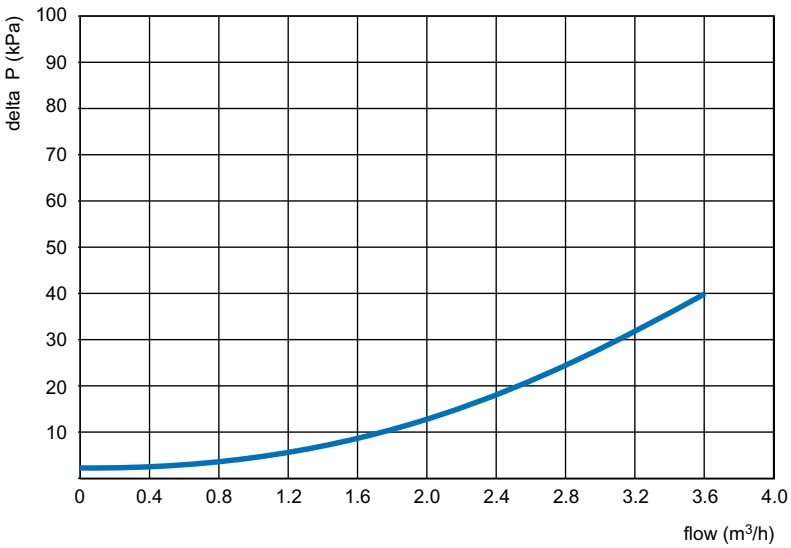
Mounting dimensions

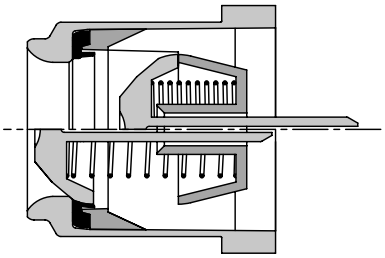


Product dimensions



Pressure loss-curve





WM020 DN20

The Watts check valve type WM020 features noiseless operation, very low pressure loss and absolute sealing at high and low back pressures.
The split valve stem principle guarantees a trouble free operation for many years.

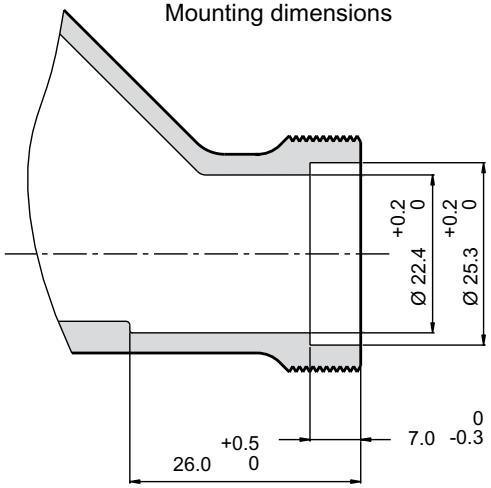
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN20

Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D
NF	F
ETA	DK
SITAC	S

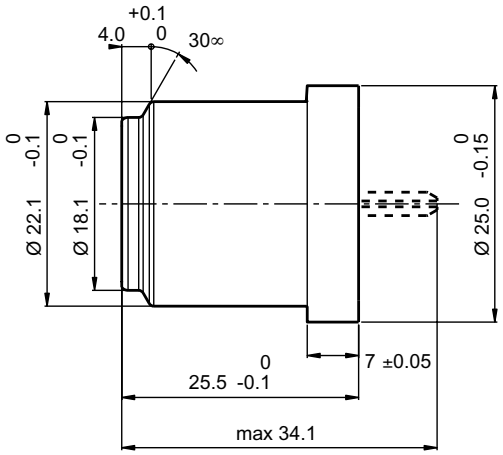
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

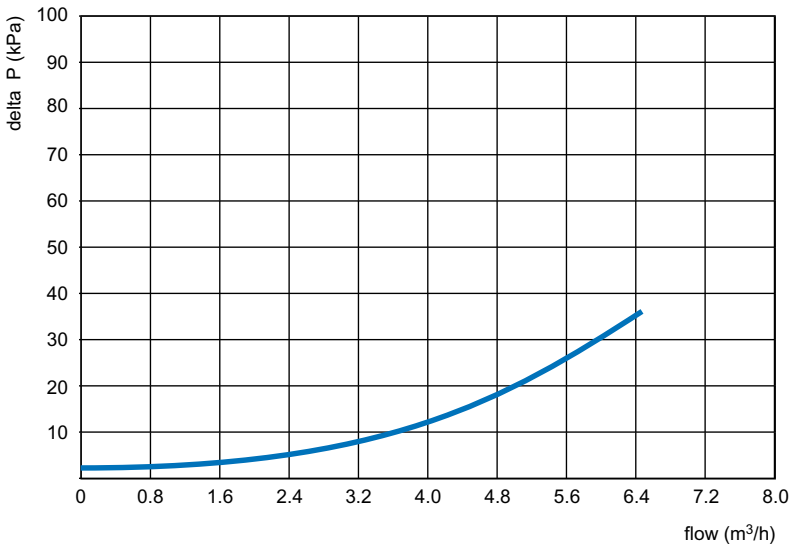
Mounting dimensions

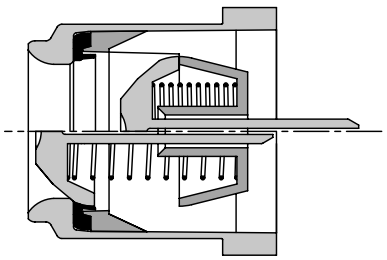


Product dimensions



Pressure loss-curve





WM025 DN25

The Watts slide-in check valve type WM025 features noiseless operation, very low pressure loss and absolute sealing at high and low back pressures.
The split valve stem principle guarantees a trouble free operation for many years.

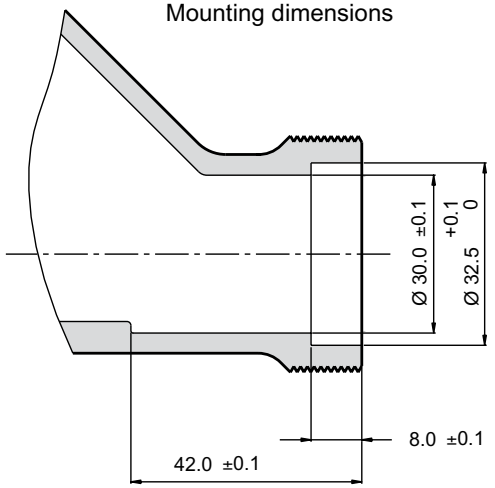
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN25

Approvals	
Kiwa	NL
Belgaqua	B
DVGW	D
NF	F
ETA	DK
SITAC	S

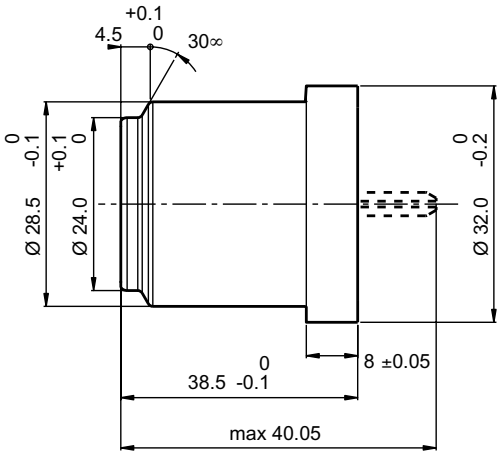
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

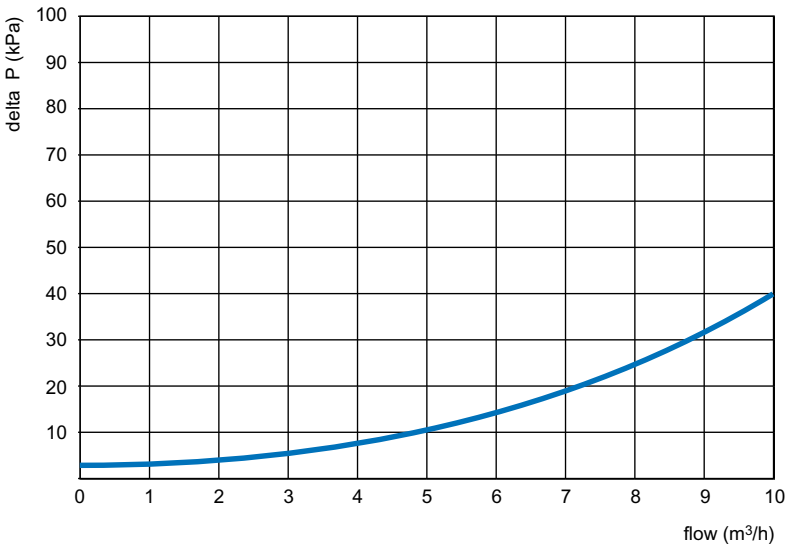
Mounting dimensions

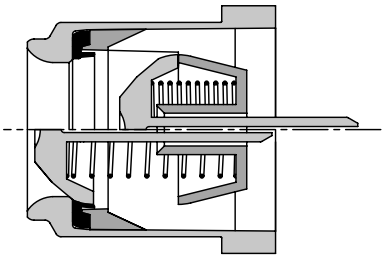


Product dimensions



Pressure loss-curve





WM040 DN40

The Watts slide-in check valve type WM040 features noiseless operation, very low pressure loss and absolute sealing at high and low back pressures.

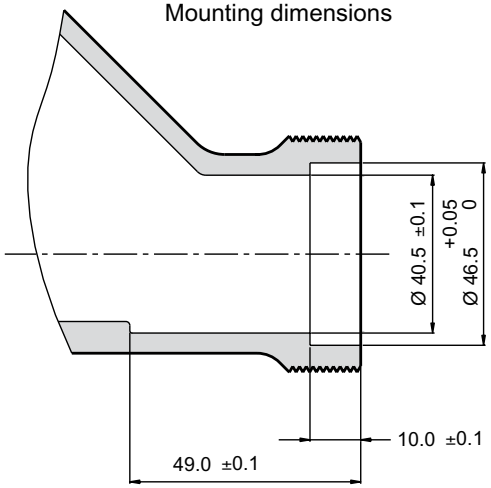
Technical specifications	
Working pres.	PN10
Testing pres.	1600 kPa
Closing pres.	10 cm wc
Nom. operating temp.	65 °C
Peak temp. for 1 hour per day	90 °C
Diam. nominal	DN40

Approvals	
Kiwa	NL
DVGW	D
ETA	DK
Belgaqua	B
SITAC	S

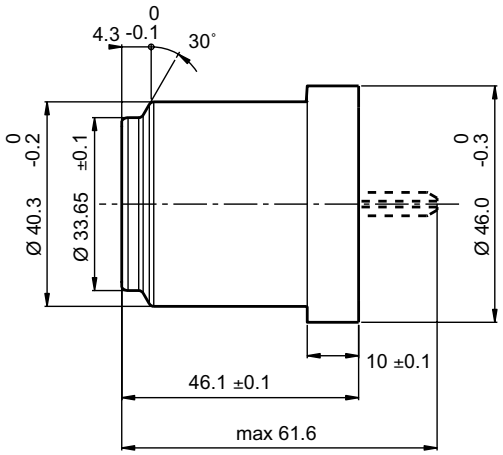
Material specifications	
House	POM
Valve	POM
Torpedo	POM
Diaphragm	NBR
Spring	Stainless Steel

Other diameters and other closing pressures on request.

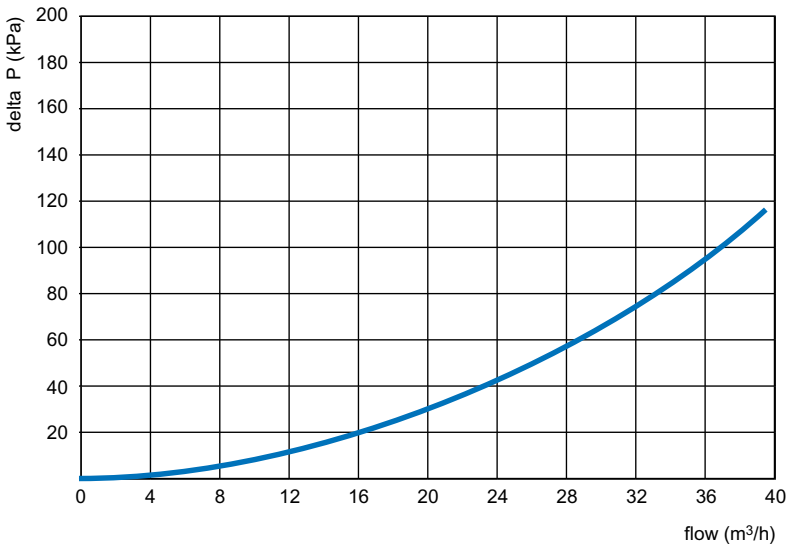
Mounting dimensions

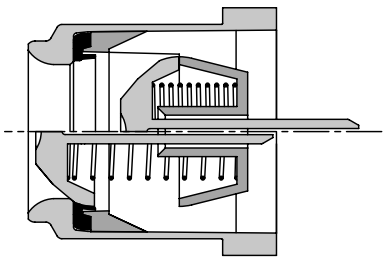


Product dimensions



Pressure loss-curve





Auxiliary mounting tools

In order to achieve a perfectly leaktight check valve construction, it is of crucial importance that mounting dimensions are respected.

On each check valve data sheet, you will find the required mounting dimensions to be created in the housing to the check valve.

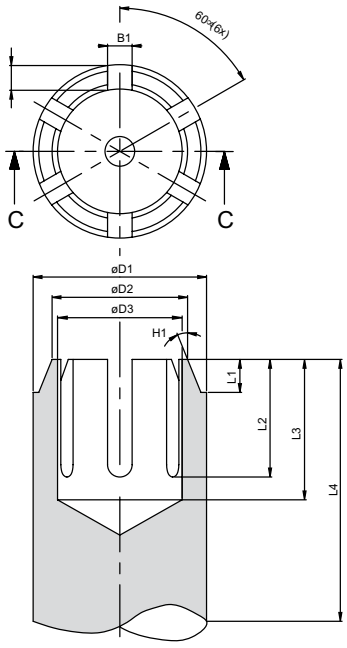
In order to avoid any damage of the check valves and O-rings it is very important that check valves are mounted in the correct way.

To support positioning and mounting in the right way Watts Industries produced a mounting tool for every check valve. The dimensions of the tools are given in the data sheet below.

When an approved Watts check valve is built in in accordance with the mounting dimensions as given on the relevant check valve data sheet and when the proper auxiliary tools are used, Watts Industries ensures a check valve performance that will last for many years.

DN	Model	H1	ØD1	ØD2	ØD3	L1	L2	L3	L4	B1	B2
		in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	
	8FI010	26°	9.6 ±0.05	7.85 ±0.05	7.4 ±0.05	1.65 ±0.05	6.15 +0.1 0	6.15 +0.1 0	min. 30	1.5 +0.2 0	-
	8CO010	26°	9.9 ±0.05	7.85 ±0.05	7.4 ±0.05	1.65 ±0.05	6.15 +0.1 0	6.15 +0.1 0	min. 30	1.5 +0.2 0	-
	10CO012	0°	11.6 ±0.1	10.2 ±0.05	8.7 ±0.1	2.9 0 -0.1	2.9 0 -0.1	2 ±0.1 0	min. 30	2 +0.1 0	2.6 0 -0.5
	10CO013	0°	12.6 ±0.1	10.2 ±0.05	8.7 ±0.1	2.9 0 -0.1	2.9 0 -0.1	2 ±0.1	min. 30	2 +0.1 0	2.6 0 -0.5
	10CO014	24°	13.9 0 -0.1	12.85 ±0.05	11.9 ±0.1	0.5 +0.1 0	8 ±0.1	8 ±0.1	min. 50	2 +0.1 0	-
	10CO015	0°	15.1 0 -0.1	12.5 ±0.05	11 ±0.1	2.5 ±0.1	2.5 ±0.1	2.5 ±0.1	min. 50	2 +0.1 0	-
	15CO020	27°	15 0 -0.1	11.75 ±0.05	10.8 +0.1 0	2.5 ±0.05	9.5 ±0.2	12 +0.1 0	min. 65	3 ±0.2	-
	15IN/IO/WM	27°	15 0 -0.1	11.75 ±0.05	10.8 +0.1 0	2.5 ±0.05	9.5 ±0.2	12 +0.1 0	min. 65	3 ±0.2	-
	20IN/IO/WM	17°	19.7 0 -0.1	15.8 ±0.05	14.5 +0.1 0	-	14 ±0.2	16 ±0.2	min. 65	4 +0.2 0	-
	25IN/IO/WM	23°	24.8 0 -0.1	19.3 +0.02 0	18 +0.1 0	-	14 ±0.2 0	17.5 ±0.1	min. 75	5 +0.2 0	-
	32IN/IO	22°	31.6 0 -0.02	24.7 ±0.05	22.5 +0.1	5.8 ±0.01	17.5 +0.2	24 ±0.2	min. 85	3 +0.1 0	-
	40IN/IO/WM	22°	39.3 0 -0.02	30.7 ±0.05	28.5 +0.1 0	7.3 ±0.01	23 ±0.2	30 ±0.2	min. 90	6 +0.2 0	-
	50IN/IO	22°	49.4 ±0.05	38.6 0 -0.02	35.5 +0.1 0	9.4 ±0.01	33.5 ±0.2	40 ±0.2	min. 90	7 +0.2 0	-

Remark: dimensions are under usual reserve.



Product range Watts Industries

- System Disconnectors
- Backflow Protection Devices
- Check Valves
- Safety Units
- Safety Relief Valves
- Pressure Reducing Valves
- Automatic Control Valves
- Butterfly Valves
- Shut-Off Valves
- Measuring Gauges
- Temperature Control
- Expansion Vessels
- Process Switches
- Fuel Products
- Gas Products
- Electronic Controls
- Installation Protection Products
- Radiator Valves
- System Products
- Manifolds and Fittings

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