

Food & beverage catalogue

All our brands in one catalogue: stainless cylinders and pneumatics, IP69K sensors and safety devices, food-certified and hygienic valves, stainless fittings and clamps.



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Page numbers refer to this PDF. The sections keep the page numbers of the INO source catalogues, so cross-references inside them stay valid. Prices, stock, certificates and full datasheets on request. This is the compact edition with the key pages of each section — the full catalogue is available on request.



Overview — all brands

Hygienic valves, stainless cylinders, Camozzi stainless pneumatics,
Datasensing IP69K sensors, OMI clean air and Pizzato safety.

01 INO hygienic valves & fittings

Stainless steel ball and butterfly valves, SMS / DIN / Clamp fittings and instrumentation for product and CIP lines.



Stainless steel ball valves

1- and 3-piece AISI 316 ball valves with weld, clamp or threaded ends — EC 1935/2004 versions.



Actuated hygienic valves

Ball and butterfly valves with pneumatic or electric actuators and limit switch boxes.



Butterfly valves for utilities

Stainless steel butterfly valves with lever or gearbox for water, CIP and utility lines.



SMS, DIN & Clamp fittings

Hygienic unions, nuts, liners, ferrules, bends and tees in AISI 304/316L with EPDM seals.



Hygienic instrumentation

Pressure gauges with clamp diaphragm seals, sight glasses and sampling valves.

02 INO stainless steel cylinders

AISI 304/316 cylinders for wash-down areas — FDA-compliant seals available, same dimensions as ISO standard cylinders.



Series Z — ISO 6432 inox

Stainless steel micro cylinders, crimped round tube.



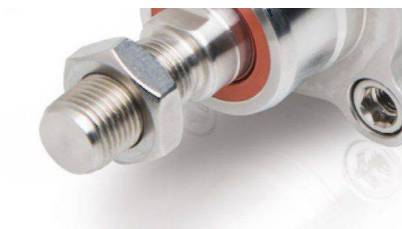
Series J — AISI 304

Stainless steel round cylinders, crimped tube.



Series V — AISI 316

Stainless steel round cylinders with screwed tube — fully serviceable.



Series Y — ISO 15552 inox

Stainless steel ISO 15552 cylinders with tie rods.



Series X — ISO 21287 inox

Compact stainless steel cylinders.

03 Camozzi — stainless steel pneumatics

316L push-in fittings, stainless cylinders, solenoid valves and flow controls for food, beverage and packaging machines.



Series 97

Stainless steel cylinders



Series 90

Stainless steel cylinders



Series 94 and 95

Stainless steel mini-cylinders



Series CFB-X

Stainless steel solenoid valves



Series X6000

Super-rapid fittings in stainless steel 316L



Series 7000 Beverage & Water

GRIPfit push-in fittings in low-lead brass — NSF, potable water and food contact certified.



Series X1000

Rapid push-on fittings in 316L stainless steel



Series X2000

Adapters in 316L stainless steel



Series X29

Mini ball valves in 316 stainless steel

Also in the range: Series XVNR · Series XRFU and XRFO · Series XSCU, XSCO, XMFU and XMFO · Series XVSC

04 Datasensing — IP69K sensors & safety

Full-metal and IP69K sensors and stainless steel safety light curtains that withstand high-pressure, high-temperature cleaning.



SG4-H

IP69K Stainless steel safety light curtain for Pharma



UFK

M18 full metal ultrasonic sensors for extreme applications (food and pharma).



PFK

Inductive sensor M18 IP69K



PFM

Inductive sensor M12 IP69K



Stainless steel inductive sensors

Inductive sensors in stainless steel housings for wash-down areas.



VBR

M18 vibration sensor with AISI31L full metal stainless steel housing.



S8

Compact photoelectric plastic or inox housing sensor series



SG-IP69K

Plastic IP69K protection tubes for SG safety light curtains

05 OMI — clean, dry process air

Sterile filters and adsorption dryers for compressed air in direct or indirect contact with food.

NEW



Sterile compressed air filters

Sterile compressed air filters for food, beverage and pharma.



HLA Series adsorption dryers

Heatless adsorption dryers for chemical, pharma and food applications.



HLA PRO Series adsorption dryers

Professional series of adsorption dryers with low pressure drop.



F Series compressed air filters

Coalescing and activated-carbon grades for oil-free, odour-free process air.

06 Pizzato — machine safety

Safety sensors for guards on food processing and packaging machines.



RFID safety sensors

Coded non-contact safety sensors in sealed housings for guards on wash-down machines.



Pneumatics — stainless steel

INO stainless cylinders (ISO 6432, AISI 316 round, ISO 15552, ISO 21287) and Camozzi 316L push-in fittings, valves and 7000 Beverage & Water fittings.

SERIES Z

Stainless steel micro cylinders ISO 6432

Series Z · crimped stainless steel round tube



- Bores: Ø 10
- Working pressure 1 ÷ 10 bar
- Working temperature 0 ÷ +80°C (up to +150 °C with high-temperature seals)
- Versions: double acting, double rod
- Filtered, non-lubricated compressed air

SERIES V

Stainless steel round cylinders AISI 316

Series V · screwed AISI 316 tube



- Bores: Ø 32
- Working pressure 1 ÷ 10 bar
- Working temperature 0 ÷ +80°C (up to +150 °C with high-temperature seals)
- Versions: double acting, double rod
- Filtered, non-lubricated compressed air

SERIES Y

Stainless steel cylinders ISO 15552

Series Y · round tube with tie rods



- Bores: Ø 32
- Working pressure 1 ÷ 10 bar
- Working temperature 0 ÷ +80°C (up to +150 °C with high-temperature seals)
- Versions: stelo passante double acting - double rod
- Filtered, non-lubricated compressed air

B Camozzi — stainless pneumatics & water fittings

The 316L stainless range for machines that are washed down daily, and push-in fittings for drinking water, filtration, dispensers and beverage machines. Datasheets and certificates on request.



Camozzi Series 7000 Beverage & Water

GRIPfit push-in fittings, low-lead brass CW510L — NSF, potable water and food contact certified; tube Ø4–8 mm.



Camozzi Series X6000

Super-rapid push-in fittings in AISI 316L for wash-down areas.



Camozzi Series X1000

Rapid push-on fittings in AISI 316L.



Camozzi Series X2000

Threaded adapters in AISI 316L.



Camozzi Series XVNR

Check valves in AISI 316L.



Camozzi Series X29

Mini ball valves in AISI 316.



Camozzi Series XRFU / XRFO

Flow control valves in AISI 316L.



Camozzi Series XSCU / XMFU

Flow regulators in AISI 316L.



Camozzi Series XVSC

Quick exhaust valves in stainless steel.



Pizzato — IP69K & stainless safety devices

AISI 316L hinge switches, stainless RFID safety switches with lock, magnetic and RFID safety sensors.

5A Safety switches with separate actuator

FD, FL, FC and FP series safety switches with separate actuator for heavy duty applications

Technopolymer housing (FP)

Metal housing (FD, FL, FC)

Protection degree IP67

Marks:

One M20x1.5 conduit entry

Three M20x1.5 conduit entries

One M20x1.5 conduit entry

One M20x1.5 conduit entry



Slow action contacts 1NO+1NC

FD 693-M2

FL 693-M2

FC 3393-M2

FP 693-M2

Slow action contacts 2NC

FD 993-M2

FL 993-M2

FC 3493-M2

FP 993-M2

Slow action contacts 1NO+2NC

FD 2093-M2

FL 2093-M2

/

FP 2093-M2

Separate actuators



VF KEYF

VF KEYF1

VF KEYF2

VF KEYF3

VF KEYF7

VF KEYF8

Attention! These separate actuators can be used only with items of the FD, FL, FC and FP series.

FR, FX, FK and FW series safety switches with separate actuator for standard applications

Technopolymer housing

Protection degree IP67

Marks:

One M20x1.5 conduit entry

Two conduit entries M20x1.5

One M16x1.5 conduit entry

Two conduit entries M20x1.5



Slow action contacts 1NO+1NC

FR 693-M2

FX 693-M2

FK 3393-M1

FW 3392-M2

Slow action contacts 2NC

FR 993-M2

FX 993-M2

FK 3493-M1

FW 3492-M2

Slow action contacts 1NO+2NC

FR 2093-M2

FX 2093-M2

/

FW 2092-M2

Separate actuators



VF KEYD

VF KEYD1

VF KEYD2

VF KEYD3

VF KEYD5

VF KEYD6

VF KEYD7

VF KEYD8

VF KEYD10

VF KEYD11

Attention! These separate actuators can be used only with items of the FR, FX, FK and FW series.

5B Magnetic safety sensors

SR series magnetic safety sensors

Technopolymer housing

With 2 m cable or M8 connector

Protection degrees IP67 and IP69K

Marks:

With M8 connector

With M8 connector



2NC contacts (with closed guard)

SR BD40AN2-B02F

SR BD40ALK-B02F

SR AD40AN2-A01N

SR AD40ALK-A01N

Actuation distance

8 mm

8 mm

5 mm

5 mm



For safety applications, connect with the safety modules shown on the side.
See technical data on page 64.

CS AR-01••••^b
CS AR-02••••^b
CS AR-04••••^b
CS AR-05••••
CS AR-06••••
CS AR-08••••

CS AR-46•024
CS AR-91••••
CS AR-94••••
CS AR-95••••
CS AT-0••••
CS AT-1••••

CS AT-3••••
CS FS-5••••
CS MP••••
CS MF••••

^b Compatible with modules with production batch later than 06/2014 only.



Safety switches for hinged doors

HP AA series hinge switches

Metal housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K
Marks:      

Slow action contacts 1NO+2NC



HP AB series hinge switches

Metal housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K
Marks:      

Slow action contacts 1NO+2NC



HX series hinge switches

AISI 316L stainless steel housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K
Marks:      

Slow action contacts 2NO+2NC



HX series electronic hinge switches

AISI 316L stainless steel housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K
Status LED
Supply voltage: 24 Vdc
Marks:      

PNP switching outputs



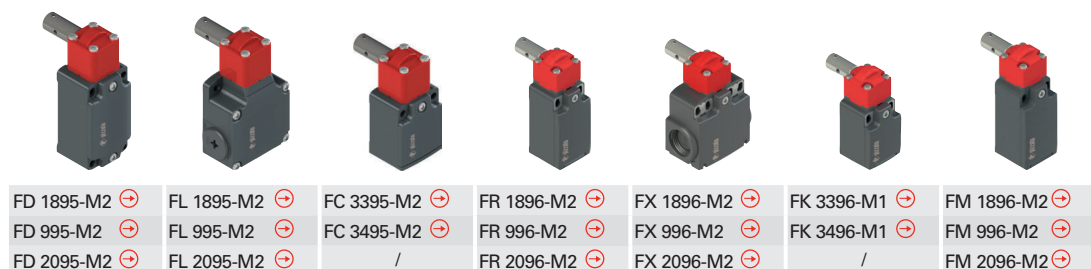
For safety applications, the HX series electronic hinge switches must be connected to modules with OSSD inputs. Shown on the side are the compatible Pizzato modules.
See technical data on page 64

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS AT-0•024
CS AT-1•024
CS MP•••••
CS MF•••••

Switches for hinges FD, FL and FC series FR, FX, FK, FM series

Technopolymer housing or metal housing
One, two or three conduit entries
Protection degree IP67
Marks:      

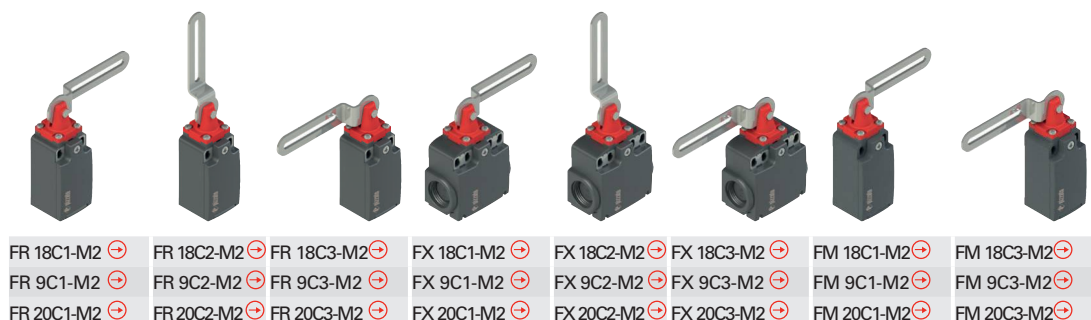
Slow action contacts 1NO+1NC
Slow action contacts 2NC
Slow action contacts 1NO+2NC



FR, FX, FM series switches with slotted hole lever

Technopolymer housing or metal housing
One or two conduit entries M20x1.5
Protection degree IP67
Marks:      

Slow action contacts 1NO+1NC
Slow action contacts 2NC
Slow action contacts 1NO+2NC



5E Safety switches with separate actuator with lock

RFID safety switches with lock NG series

Metal housing, three M20x1.5 conduit entries

Actuator with high coding level (EN ISO 14119)

Max. holding force: 9750 N

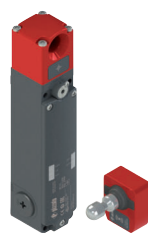
Protection degrees IP67 and IP69K

Status LED

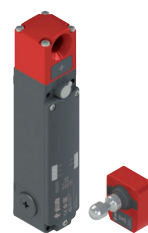
Marks:



Locked actuator with **de-energised 24 Vdc solenoid.**



Locked actuator with **energised 24 Vdc solenoid.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release and escape release button.**



Locked actuator with **de-energised 24 Vdc solenoid. With escape release button.**



Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Mode 3

OS1 safety output active with inserted and locked actuator, OS2 safety output active with inserted actuator

NG 2D1D411A-F31

NG 2D1E411A-F31

NG 2D5D411A-F31

NG 2D6D411A-F31

NG 2D7D411A-F31

NG 2D1D421A-F31

NG 2D1E421A-F31

NG 2D5D421A-F31

NG 2D6D421A-F31

NG 2D7D421A-F31

NG 2D1D431A-F31

NG 2D1E431A-F31

NG 2D5D431A-F31

NG 2D6D431A-F31

NG 2D7D431A-F31

RFID safety switches with lock NG series with integrated control devices

Metal housing, three M20x1.5 conduit entries

Actuator with high coding level (EN ISO 14119)

Max. holding force: 9750 N

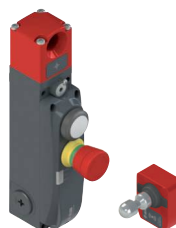
Protection degree IP65

Status LED

Marks:



Locked actuator with **de-energised 24 Vdc solenoid.**



Locked actuator with **energised 24 Vdc solenoid.**



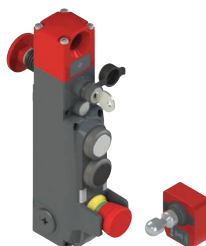
Locked actuator with **de-energised 24 Vdc solenoid. With key release.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release and escape release button.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release, escape release button and guard.**



Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

NG 2D1D412D-F31

NG 2D1E411H-F31

NG 2D5D411D-F31

NG 2D6D412P-F31

NG 2D6D41CF-F31

RFID safety switches with lock NG series with remote escape release

Self-monitoring of cable tension

Device can be turned in 90° steps

Flexible installation

Activation button for remote escape release

Marks:



Note: The codes shown on the side include the safety switch supplied with the remote release cable which has a standard length of 5 meters. For other lengths, please contact our Technical Department.

The remote escape release switch must be supplemented with the push button with the code VN RR-K4.

Locked actuator with **de-energised 24 Vdc solenoid. With remote escape release.**



NG 2D9D411A-F31

NG 2D9D421A-F31

NG 2D9D431A-F31

Activation button for remote escape release



Article

Description

VN RR-K4

Activation button for remote escape release on NG and NS series switches

Note: The actuation cable is integrated in the remote release device connected to the safety switch.

Inputs and outputs

2 safety inputs IS1, IS2
2 safety outputs OS1, OS2
1 signalling output O3: closed guard
1 signalling output O4: locked guard
1 solenoid activation input I4
1 programming / reset input I3



For safety applications, connect with the safety modules shown on the side. See technical data on page 64.

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS AT-0•024
CS AT-1•024
CS MP•024
CS MF•024

NX series

RFID safety switches with lock

Compact dimensions: 30 x 30 x 94,5 mm

Technopolymer housing, metal head

Metal actuator with high coding level
(EN ISO 14119)

Max. holding force: 6000 N

Bistable operation

Protection degrees IP67 and IP69K

Status signalling RGB LED

Marks:      

With M12 connector, axial

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Inputs

2 safety inputs IS1, IS2
2 solenoid activation inputs IE1, IE2
1 programming / reset input I3

Outputs

2 safety outputs OS1, OS2
1 signalling output O3: closed guard
1 signalling output O4: locked guard

Bistable with front hex-key release



NX B42AZ1SMK-F61

NX P42AZ1SMK-F61

Bistable with front hex-key release
With EDM input



NX B52AZ1SMK-F61

NX P52AZ1SMK-F61

Bistable with hex-key release on
three sides



NX B42CZ1SMK-F61

NX P42CZ1SMK-F61

Bistable with hex-key release on
three sides
With EDM input



NX B52CZ1SMK-F61

NX P52CZ1SMK-F61

Bistable with hexagonal key release
at front and escape release button
at back



NX B42AE1SMK-F61

NX P42AE1SMK-F61

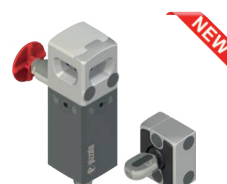
Bistable with hexagonal key at front
and escape release button at back
With EDM input



NX B52AE1SMK-F61

NX P52AE1SMK-F61

Bistable with hexagonal key release
on three sides and escape release
button at back



NX B42CE1SMK-F61

NX P42CE1SMK-F61

Bistable with hexagonal key release
on three sides and escape release
button at back
With EDM input



NX B52CE1SMK-F61

NX P52CE1SMK-F61

With M12 connector, axial

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with front hex-key release



NX B42AZ1SM0.2-F61

NX P42AZ1SM0.2-F61

Bistable with front hex-key release
With EDM input



NX B52AZ1SM0.2-F61

NX P52AZ1SM0.2-F61

Bistable with hex-key release on
three sides



NX B42CZ1SM0.2-F61

NX P42CZ1SM0.2-F61

Bistable with hex-key release on
three sides
With EDM input



NX B52CZ1SM0.2-F61

NX P52CZ1SM0.2-F61

With axial cable, 0.2 m length
and M12 connector

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with hexagonal key release
at front and escape release button
at back



NX B42AE1SM0.2-F61

NX P42AE1SM0.2-F61

Bistable with hexagonal key at front
and escape release button at back
With EDM input



NX B52AE1SM0.2-F61

NX P52AE1SM0.2-F61

Bistable with hexagonal key release
on three sides and escape release
button at back



NX B42CE1SM0.2-F61

NX P42CE1SM0.2-F61

Bistable with hexagonal key release
on three sides and escape release
button at back
With EDM input



NX B52CE1SM0.2-F61

NX P52CE1SM0.2-F61

With axial cable, 0.2 m length
and M12 connector

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Safety switches with separate actuator with lock

NX series RFID safety switches in stainless steel with lock

Compact dimensions: 30 x 30 x 94,5 mm
Technopolymer housing, external metal parts in AISI 316L stainless steel
Actuator with high coding level and metal parts in AISI 316L stainless steel
Max. holding force: 6000 N
Bistable operation
Protection degrees IP67 and IP69K
Status signalling RGB LED

Marks:      

With M12 connector, axial

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Inputs

2 safety inputs IS1, IS2
2 solenoid activation inputs IE1, IE2
1 programming / reset input I3

Outputs

2 safety outputs OS1, OS2
1 signalling output O3: closed guard
1 signalling output O4: locked guard

Bistable with front hex-key release



NX B42AZ2SMK-F71

NX P42AZ2SMK-F71

Bistable with front hex-key release
With EDM input



NX B52AZ2SMK-F71

NX P52AZ2SMK-F71

Bistable with hex-key release on three sides



NX B42CZ2SMK-F71

NX P42CZ2SMK-F71

Bistable with hex-key release on three sides
With EDM input



NX B52CZ2SMK-F71

NX P52CZ2SMK-F71

Bistable with hexagonal key release at front and escape release button at back



NX B42AE2SMK-F71

NX P42AE2SMK-F71

Bistable with hexagonal key at front and escape release button at back
With EDM input



NX B52AE2SMK-F71

NX P52AE2SMK-F71

Bistable with hexagonal key release on three sides and escape release button at back



NX B42CE2SMK-F71

NX P42CE2SMK-F71

Bistable with hexagonal key release on three sides and escape release button at back
With EDM input



NX B52CE2SMK-F71

NX P52CE2SMK-F71

With M12 connector, axial

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with front hex-key release



NX B42AZ2SM0.2-F71

NX P42AZ2SM0.2-F71

Bistable with front hex-key release
With EDM input



NX B52AZ2SM0.2-F71

NX P52AZ2SM0.2-F71

Bistable with hex-key release on three sides



NX B42CZ2SM0.2-F71

NX P42CZ2SM0.2-F71

Bistable with hex-key release on three sides
With EDM input



NX B52CZ2SM0.2-F71

NX P52CZ2SM0.2-F71

With axial cable, 0.2 m length and M12 connector

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with hexagonal key release at front and escape release button at back



NX B42AE2SM0.2-F71

NX P42AE2SM0.2-F71

Bistable with hexagonal key at front and escape release button at back
With EDM input



NX B52AE2SM0.2-F71

NX P52AE2SM0.2-F71

Bistable with hexagonal key release on three sides and escape release button at back



NX B42CE2SM0.2-F71

NX P42CE2SM0.2-F71

Bistable with hexagonal key release on three sides and escape release button at back
With EDM input



NX B52CE2SM0.2-F71

NX P52CE2SM0.2-F71

With axial cable, 0.2 m length and M12 connector

Mode 1 

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator



Valves — food-certified & hygienic

Stainless steel ball valves, actuated valves, butterfly and check valves — EC 1935/2004 / FDA marked items.



SELECTION BY MEDIUM · CATALOGUE 15

Food-certified valves & fittings

EC 1935/2004 · FDA · NSF — food-contact products only.
Certificate available separately (€40).



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2026

15 pages

Stainless steel ball valves

FOOD CONTACT

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2014/68/EU Directive - Risk category II / module H - Fugitive emissions ISO 15848-1 - SIL 2 (& SIL 3 capable) - 1.4409 stainless steel body & ends (Ra: 0,8 µm) - CF3M ball (Ra: 0,4 µm) - TFM™ 1600 seats & V-ring gland packing - Full bore (except ELITR) - Anti-blowout stem - Double anti-static device - ISO pad - PS: see tables - TS: -50°C/+210°C.

⚠ Steam up to 10 bar.



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2014/68/EU Directive - Risk category II / module H - Fugitive emissions ISO 15848-1 - SIL 2 (& SIL 3 capable) - 1.4409 stainless steel body & ends (Ra: 0,8 µm) - CF3M ball (Ra: 0,4 µm) - TFM™ 1600 seats & V-ring gland packing - 1.4404 stainless steel spacer - Anti-blowout stem - Double anti-static device - ISO pad - PS: see tables - TS: -50°C/+210°C.

⚠ Steam up to 10 bar.



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2014/68/EU Directive - Risk category II / module H - Fugitive emissions ISO 15848-1 - SIL 2 (& SIL 3 capable) - 1.4409 stainless steel body & end (Ra: 0,8 µm) - 1.4308 flange - CF3M ball (Ra: 0,4 µm) - TFM™ 1600 seats & V-ring gland packing - Full bore - Anti-blowout stem - Double anti-static device - ISO pad - PS: see tables - TS: -50°C/+210°C.

⚠ Steam up to 10 bar.



NEW Tank bottom valve

ELITBWFC

1.4409 body - CF3M ball.



Ø	15	20	25	32	40	50
PS (bar)	63	63	63	63	63	50
ELITBWFC	ELITBWFC15	ELITBWFC20	ELITBWFC25	ELITBWFC32	ELITBWFC40	ELITBWFC50



2014/68/EU Directive - Risk category II / module H - Fugitive emissions ISO 15848-1 - SIL 2 (& SIL 3 capable) - 1.4435 stainless steel body, ends & ball (Ra: 0,4 µm) up to 2" / above: 1.4409 stainless steel body, 1.4435 ends (Ra: 0,4 µm) & CF3M ball (Ra: 0,4 µm) - TFM™ 1600 seats & V-ring gland packing - Full bore - Anti-blowout stem - Double anti-static device - ISO pad - PS: see tables - TS: -50°C/+210°C.

⚠ Steam up to 10 bar.



Concentric butterfly valves

FOOD CONTACT

catalogue 02 · Butterfly valves · p. 109

Ductile iron - EN-GJS-500-7 (GGG50) - Teflon®



2014/68/EU Directive N°0094 - Risk category III / module H - SIL 2 (& SIL 3 capable) - EN-GJS-500-7 (GGG50) body - Rilsan coated - Teflon® PTFE seat with silicone liner - ISO pad -
PS: 16 bar - TS: -25°C/+200°C -

⚠ Supplied with lever up to DN150, supplied with gearbox above for 1145 & 1166.

⚠ Supplied with lever up to DN200, supplied with gearbox above for 1155 & 1165.



1145 - Wafer - Disc CF8M

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1145040	1145050	1145065	1145080	1145100	1145125	1145150	1145200	1145250	1145300



1166 - Lug - Disc CF8M

Between flanges PN10 or PN16.

								Flanges PN10		
DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1166040	1166050	1166065	1166080	1166100	1166125	1166150	1166200	1166250	1166300



1155 - Wafer - Disc CF8M + Teflon®

Between flanges PN10/16 & ANSI 150.

DN	32-40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1155040	1155050	1155065	1155080	1155100	1155125	1155150	1155200	1155250	1155300



1165 - Lug - Disc CF8M + Teflon®

Between flanges PN10/16 up to DN150, PN10 above.

								Flanges PN10		
DN	40	50	65	80	100	125	150	200	250	300
PS (bar)	16	16	16	16	16	16	16	10	10	10
code	1165040	1165050	1165065	1165080	1165100	1165125	1165150	1165200	1165250	1165300

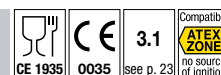
■ not in stock, on request.

Check valves

FOOD CONTACT

catalogue 03 · Gate, globe, check & other valves · p. 171

2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body & piston - PTFE seat - PS: 50 bar - TS: -20°C/+200°C.



FOOD 325 - Stainless steel

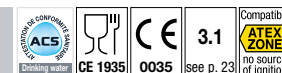


Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
face to face	57	57	61	70	86	100	111	138	170	195
code	325002	325003	325004	325005	325006	325007	325008	325009	325010	325011



catalogue 03 · Gate, globe, check & other valves · p. 172

FOOD 2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body - F316 disc - Metal-metal tightness - PTFE body seats - ACS up to 2" - PS: 63 bar - TS: -20°C/+200°C.



380 - 3 piece body

381 - 3 piece body

381 ISO - 3 piece body

384 - 3 piece body

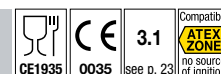
382 - 3 piece body



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
380 code	380002	380003	380004	380005	380006	380007	380008	380009	380010	380011	380012
384 code	384002	384003	384004	384005	384006	384007	384008	384009	-	-	-
381 code	381008	381010	381015	381020	381025	381032	381040	381050	381065	381080	381100
382 code	382008	382010	382015	382020	382025	382032	382040	382050	382065	382080	382100
381 ISO code	381ISO008	381ISO010	381ISO015	381ISO020	381ISO025	381ISO032	381ISO040	381ISO050	381ISO065	381ISO080	-

catalogue 03 · Gate, globe, check & other valves · p. 173

FOOD 2014/68/EU Directive N°0035 - Risk category II / module H - CF8M body - F316 disc - Metal-metal tightness - PS: 40 bar - TS: -20°C/+400°C.  **Steam up to 14 bar max.**



386 - Stainless steel

Between flanges PN10/16/25/40.

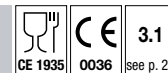


DN	15	20	25	32	40	50	65	80	100
face to face	16	19	22	28	31,5	40	46	49	60
code	386015	386020	386025	386032	386040	386050	386065	386080	386100

Y-strainers

catalogue 03 · Gate, globe, check & other valves · p. 177

FOOD 2014/68/EU Directive N°0036 - Risk category I / module A2 - CF8M body - F316 screen - Mesh 1 mm - With draining cap - PS: 16 bar - TS: -50°C/+200°C.



230 - Stainless steel



Ø	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
code	230002	230003	230004	230005	230006	230007	230008	230009

Actuated stainless steel ball valves

HYGIENIC

catalogue 07 · Food industry · p. 188

Rotating ends 3 piece ball valves

All our pneumatic actuated ball valves are designed for a compressed air supply of 6 bar - Other air supply pressure on request, please consult.
All our electric actuated ball valves are equipped with a 230V AC actuator as standard - Other power supply on request, please consult.
⚠ **ΔP max.: 10 bar** - Actuators & automation complements, see pages 229.

ELIT - Pneumatic actuated stainless steel ball valve

1.4409 body - Full bore - TS: -50°C/+200°C.



double acting		
Ø	actuator	code
1/4"	ADA20	271100015100
3/8"	ADA20	271101015100
1/2"	ADA20	271102015100
3/4"	ADA20	271103015100
1"	ADA20	271104015100
1 1/4"	ADA40	271105015101
1 1/2"	ADA40	271106015101
2"	ADA80	271107015102



spring return		
Ø	actuator	code
1/4"	ASR40	271100016101
3/8"	ASR40	271101016101
1/2"	ASR40	271102016101
3/4"	ASR40	271103016101
1"	ASR40	271104016101
1 1/4"	ASR80	271105016102
1 1/2"	ASR80	271106016102
2"	ASR200	271107016104

ELIT - Pneumatic actuated stainless steel ball valve

1.4409 body - Full bore - TS: -50°C/+200°C.



double acting		
Ø	actuator	code
1/4"	RE51	271100017006R
3/8"	RE51	271101017006R
1/2"	RE51	271102017006R
3/4"	RE51	271103017006R
1"	RE51	271104017006R
1 1/4"	RE64	271105017007R
1 1/2"	RE64	271106017007R
2"	RE76	271107017008R



spring return		
Ø	actuator	code
1/4"	RES51	271100017106R
3/8"	RES51	271101017106R
1/2"	RES51	271102017106R
3/4"	RES51	271103017106R
1"	RES64	271104017107R
1 1/4"	RES76	271105017108R
1 1/2"	RES86	271106017109R
2"	RES101	271107017110R



double acting		
Ø	actuator	code
1/4"	RE51 PTFE	271100017036
3/8"	RE51 PTFE	271101017036
1/2"	RE51 PTFE	271102017036
3/4"	RE51 PTFE	271103017036
1"	RE51 PTFE	271104017036
1 1/4"	RE64 PTFE	271105017037
1 1/2"	RE64 PTFE	271106017037
2"	RE76 PTFE	271107017038



spring return		
Ø	actuator	code
1/4"	RES51 PTFE	271100017136
3/8"	RES51 PTFE	271101017136
1/2"	RES51 PTFE	271102017136
3/4"	RES51 PTFE	271103017136
1"	RES64 PTFE	271104017137
1 1/4"	RES76 PTFE	271105017138
1 1/2"	RES86 PTFE	271106017139
2"	RES101 PTFE	271107017140

also available			
code	27110...	27111...	27112...

ELITR - Pneumatic actuated stainless steel ball valve with reduced bore

1.4409 body - Reduced bore - TS: -50°C/+200°C.



double acting		
Ø	actuator	code
1/2"	ADA20	271102R015100
3/4"	ADA20	271103R015100
1"	ADA20	271104R015100
1 1/4"	ADA20	271105R015100
1 1/2"	ADA40	271106R015101
2"	ADA40	271107R015101
2 1/2"	ADA80	271108R015102



spring return		
Ø	actuator	code
1/2"	ASR40	271102R016101
3/4"	ASR40	271103R016101
1"	ASR40	271104R016101
1 1/4"	ASR40	271105R016101
1 1/2"	ASR80	271106R016102
2"	ASR80	271107R016102
2 1/2"	ASR200	271108R016104



Fittings, clamps & connections

Food-certified and hygienic DIN / Clamp fittings and clamps, INO stainless threaded fittings.

DIN standard fittings

FOOD CONTACT

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4DINFE - Blank



DN	25	32	40	50	65	80	100
Ø	28	34	40	52	70	85	104
316 code	4DINFE25	4DINFE32	4DINFE40	4DINFE50	4DINFE65	4DINFE80	4DINFE100

2DINEB - Blank nut with chain



DN	10	15	20	25	32	40	50	65	80	100
Ø	12	18	22	28	34	40	52	70	85	104
304 code	2DINEB10	2DINEB15	2DINEB20	2DINEB25	2DINEB32	2DINEB40	2DINEB50	2DINEB65	2DINEB80	2DINEB100

DINJ - Spare gaskets



DN	10	15	20	25	32	40	50	65	80	100	125	150
Ø	12	18	22	28	34	40	52	70	85	104	129	154
EPDM code	DINJE10	DINJE15	DINJE20	DINJE25	DINJE32	DINJE40	DINJE50	DINJE65	DINJE80	DINJE100	-	-
NBR code	DINJ10	DINJ15	DINJ20	DINJ25	DINJ32	DINJ40	DINJ50	DINJ65	DINJ80	DINJ100	DINJ125	DINJ150
FKM code	DINJV10	DINJV15	DINJV20	DINJV25	DINJV32	DINJV40	DINJV50	DINJV65	DINJV80	DINJV100	-	-
silicone code	DINJS10	DINJS15	DINJS20	DINJS25	DINJS32	DINJS40	DINJS50	DINJS65	DINJS80	DINJS100	-	-

Clamp standard valves

catalogue 07 · Food industry · p. 204

Butterfly valve

Dimensions acc. to clamp SMS - 316L body - Silicone seat - **Handle not included**, see page 207 - Ra: 0,8 µm - PS: 10 bar - TS: -33°C/+200°C - ⚠ **Not suitable for steam.**



4CLAMPVP - Stainless steel CLAMP

Ø	25	38	51	63	76	104
code	4CLAMPVP25	4CLAMPVP38	4CLAMPVP51	4CLAMPVP63	4CLAMPVP76	4CLAMPVP104

Clamp standard fittings

FOOD CONTACT

catalogue 07 · Food industry · p. 207

■ Spare clamp gaskets

CJ - Spare clamp gaskets



Micro clamp					
Ø	10	12	13,5	16	17,2
EPDM code	CJ10M	CJ12M	CJ13M	CJ16M	CJ17M
FKM code	CJV10M	CJV12M	CJV13M	CJV16M	CJV17M
PTFE code	CJT10M	CJT12M	CJT13M	CJT16M	CJT17M
silicone code	CJS10M	CJS12M	CJS13M	CJS16M	CJS17M

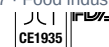
Mini clamp								
Ø	12	13,5	14	16	17,2	18	21,3	22
EPDM code	CJ12	CJ13	CJ14	CJ16	CJ17	CJ18	CJ21	CJ22
FKM code	CJV12	CJV13	CJV14	CJV16	CJV17	CJV18	CJV21	CJV22
PTFE code	CJT12	CJT13	CJT14	CJT16	CJT17	CJT18	CJT21	CJT22
silicone code	CJS12	CJS13	CJS14	CJS16	CJS17	CJS18	CJS21	CJS22

Clamp											
Ø	25	26,9	28	33,7	38	42,4	48,3	51	60,3	63,5	76
EPDM code	CJ25	CJ26	CJ28	CJ33	CJ38	CJ42	CJ48	CJ51	CJ60	CJ63	CJ76
FKM code	CJV25	CJV26	CJV28	CJV33	CJV38	CJV42	CJV48	CJV51	CJV60	CJV63	CJV76
PTFE code	CJT25	CJT26	CJT28	CJT33	CJT38	CJT42	CJT48	CJT51	CJT60	CJT63	CJT76
PTFE/EPDM* code	CJTE25	CJTE26	CJTE28	CJTE33	CJTE38	CJTE42	CJTE48	CJTE51	CJTE60	CJTE63	CJTE76
silicone code	CJS25	CJS26	CJS28	CJS33	CJS38	CJS42	CJS48	CJS51	CJS60	CJS63	CJS76
Ø	85	88,9	104	114,3	129	139	154	168,3	204	219,1	
EPDM code	CJ85	CJ88	CJ104	CJ114	CJ129	CJ139	CJ154	CJ168	CJ204	CJ219	
FKM code	CJV85	CJV88	CJV104	CJV114	CJV129	CJV139	CJV154	CJV168	CJV204	CJV219	
PTFE code	CJT85	CJT88	CJT104	CJT114	CJT129	CJT139	CJT154	CJT168	CJT204	CJT219	
PTFE/EPDM* code	CJTE85	CJTE88	CJTE104	-	-	-	CJTE154	CJTE168	CJTE204	CJTE219	
silicone code	CJS85	CJS88	CJS104	CJS114	CJS129	CJS139	CJS154	CJS168	CJS204	CJS219	

*EPDM gasket with PTFE jacket.

Components for butterfly valves

catalogue 07 · Food industry · p. 207



Spare seats



Ø	25	28	34	38	40	51	52	63	70	76	85	104
EPDM code	VPJE25	VPJE25	VPJE38	VPJE38	VPJE40	VPJE51	VPJE51	VPJE63	VPJE76	VPJE76	VPJE85	VPJE104
FKM code	VPJV25	VPJV25	VPJV38	VPJV38	VPJV40	VPJV51	VPJV51	VPJV63	VPJV76	VPJV76	VPJV85	VPJV104
silicone code	VPJ25	VPJ25	VPJ38	VPJ38	VPJ40	VPJ51	VPJ51	VPJ63	VPJ76	VPJ76	VPJ85	VPJ104

■ SMS union fittings



Dimensions acc. to SMS 1145 - 304 & 316 body - Ra: 0,8 µm - PS: 30 bar up to Ø38, 20 bar above -
TS: see elastomers use conditions p. 184.

3.1

see p. 23

2SMS/4SMS - Welding 3 piece union

EPDM gasket - TS: -30°C/+125°C.



Ø	25	38	51	63	76	104
304 code	2SMS25	2SMS38	2SMS51	2SMS63	2SMS76	2SMS104
316 code	4SMS25	4SMS38	4SMS51	4SMS63	4SMS76	4SMS104

2SMSML/4SMSML - Welding male part

Ø	25	38	51	63	76	101,6	104
304 code	2SMSML25	2SMSML38	2SMSML51	2SMSML63	2SMSML76	2SMSML101	2SMSML104
316 code	4SMSML25	4SMSML38	4SMSML51	4SMSML63	4SMSML76	4SMSML101	4SMSML104

2SMSBL/4SMSBL - Welding liner

Ø	25	38	51	63	76	101,6	104
304 code	2SMSBL25	2SMSBL38	2SMSBL51	2SMSBL63	2SMSBL76	2SMSBL101	2SMSBL104
316 code	4SMSBL25	4SMSBL38	4SMSBL51	4SMSBL63	4SMSBL76	4SMSBL101	4SMSBL104

2SMSE - Nut

Ø	25	38	51	63	76	104
304 code	2SMSE25	2SMSE38	2SMSE51	2SMSE63	2SMSE76	2SMSE104

2SMSEB - Blank nut with chain

Ø	25	38	51	63	76	104
304 code	2SMSEB25	2SMSEB38	2SMSEB51	2SMSEB63	2SMSEB76	2SMSEB104

4SMSFE - Blank

Ø	25	38	51	63	76	104
316 code	4SMSFE25	4SMSFE38	4SMSFE51	4SMSFE63	4SMSFE76	4SMSFE104

4SMSH - Welding flat sight glass

Ø	25	38	51	63	76	104
316 code	4SMSH25	4SMSH38	4SMSH51	4SMSH63	4SMSH76	4SMSH104

Clamp standard fittings

HYGIENIC

catalogue 07 · Food industry · p. 205

Dimensions acc. to clamp ISO 1127, DIN 32676 & SMS 3008 standards acc. to diameter - 316L body (except fig. 2CCR: 304 body) - PS: see table below - TS: see elastomers use conditions p. 184.

3.1

see p. 23

Ø	10	12	13,5	14	16	17,2	18	21,3	22	25	26,9
standard	-	-	ISO	-	-	ISO	DIN	ISO	DIN	SMS	ISO
PS (bar)	18	18	18	18	18	18	18	18	18	18	18
Ø	28	33,7	38	42,4	48,3	51	60,3	63,5	76	85	88,9
standard	DIN	ISO	SMS	ISO	ISO	SMS	ISO	SMS	SMS	DIN	ISO
PS (bar)	18	18	18	18	17	17	13	13	9	8	8
Ø	104	114,3	129	139,7	154	168,3	204	219,1	273		
standard	DIN	ISO	DIN	ISO	DIN	ISO	DIN	ISO	ISO		
PS (bar)	8	8	5	5	5	5	3	3	3		

■ Clamp unions

4CLAMP - Micro clamp 3 piece union

EPDM gasket - Total length: 42 mm - Clamp flange 25 mm - TS: -30°C/+125°C.

Ø	10	12	13,5	16	17,2
316L code	4CLAMP10M	4CLAMP12M	4CLAMP13M	4CLAMP16M	4CLAMP17M

4CLAMP - Mini clamp 3 piece union

EPDM gasket - Total length: 32 mm up to Ø18, 59 mm above - Clamp flange 34 mm - TS: -30°C/+125°C.

Ø	12	13,5	14	16	17,2	18	21	22
316L code	4CLAMP12	4CLAMP13	4CLAMP14	4CLAMP16	4CLAMP17	4CLAMP18	4CLAMP21	4CLAMP22

4CLAMP - Clamp 3 piece union

EPDM gasket - TS: -30°C/+125°C.

Ø	25	26,9	28	33,7	38	42,4	48,3	51	60,3	63,5	76
316L code	4CLAMP25	4CLAMP26	4CLAMP28	4CLAMP33	4CLAMP38	4CLAMP42	4CLAMP48	4CLAMP51	4CLAMP60	4CLAMP63	4CLAMP76
Ø	85	88,9	104	114,3	129	139,7	154	168,3	204	219,1	273
316L code	4CLAMP85	4CLAMP88	4CLAMP104	4CLAMP114	4CLAMP129	4CLAMP139	4CLAMP154	4CLAMP168	4CLAMP204	4CLAMP219	4CLAMP273

2CCR - Heavy duty clamp ring

Pipe Ø	10-17	12-22	25-42,4	48,3-51	60,3-63,5	76	85-88,9	104	114,3
Flange	25*	34**	50,5	64	77,5	91	106	119	132
304 code	2CCR25	2CCR34	2CCR50	2CCR64	2CCR77	2CCR91	2CCR106	2CCR119	2CCR132
Pipe Ø	129-139,7	154-168,3	204-219,1						
Flange	155	183	233,5						
304 code	2CCR155	2CCR183	2CCR233						

*Micro heavy duty clamp. **Mini heavy duty clamp.

4CCT - Micro clamp ferrule

Ø	10	12	13,5	16	17,2
A	25	25	25	25	25
316L code	4CCT10M	4CCT12M	4CCT13M	4CCT16M	4CCT17M

4CCT - Mini clamp ferrule

Ø	12	13,5	14	16	17,2	18	21	22
A	34	34	34	34	34	34	34	34
316L code	4CCT12	4CCT13	4CCT14	4CCT16	4CCT17	4CCT18	4CCT21	4CCT22

4CCT - Clamp ferrule

Ø	25	26,9	28	33,7	38	42,4	48,3	51	60,3
A	50,5	50,5	50,5	50,5	50,5	50,5	64	64	77,5
316L code	4CCT25	4CCT26	4CCT28	4CCT33	4CCT38	4CCT42	4CCT48	4CCT51	4CCT60
Ø	63,5	76	85	88,9	101,6	104	114,3	129	139,7
A	77,5	91	106	106	119	119	132	155	155
316L code	4CCT63	4CCT76	4CCT85	4CCT88	4CCT101	4CCT104	4CCT114	4CCT129	4CCT139
Ø	154	168,3	204	219,1	273				
A	183	183	233,5	233,5	319				
316L code	4CCT154	4CCT168	4CCT204	4CCT219	4CCT273				

Stainless steel pipe nipples

■ Forged stainless steel nipples - 150 lbs (BSP)



Excluded from 2014/68/EC Directive (art. 4, §3) - For all common fluids - Material: F316 body - BSP thread acc. to ISO 7.1 - PS: 20 bar - TS: -25°C/+180°C.

2039 - Standard welding nipple 

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"	2"1/2"	3"	4"
length (mm)	22	23	27	33	35	36	41	46	55	70	80
pack	10	10	10	10	5	5	5	5	1	1	1
code	2039002	2039003	2039004	2039005	2039006	2039007	2039008	2039009	2039010	2039011	2039012

2034 - Welding nipple - Length = 50 mm 

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
pack	10	10	10	10	5	5	5	5
code	2034002	2034003	2034004	2034005	2034006	2034007	2034008	2034009

2042 - Welding nipple - Length = 100 mm 

Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
pack	10	10	10	10	5	5	5	5
code	2042002	2042003	2042004	2042005	2042006	2042007	2042008	2042009

2040 - Standard barrel nipple



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"	2"1/2"	3"	4"
length (mm)	40	40	60	60	60	80	80	100	120	120	120
pack	10	10	10	10	5	5	5	5	1	1	1
code	2040002	2040003	2040004	2040005	2040006	2040007	2040008	2040009	2040010	2040011	2040012

2038 - Barrel nipple length 100 mm



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
pack	10	10	10	10	5	5	5	5
code	2038002	2038003	2038004	2038005	2038006	2038007	2038008	2038009

2041 - Barrel nipple length 200 mm



Ø	1/4"	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"
pack	10	10	10	10	5	5	5	5
code	2041002	2041003	2041004	2041005	2041006	2041007	2041008	2041009

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