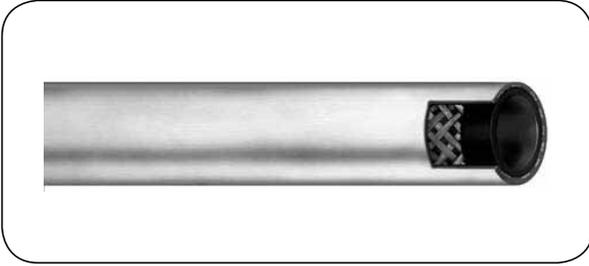


CLEANING AND WASHING - low pressure

Low pressure hoses for cleaning and washing



SPECTRA™ 300

Internal layer: Black, smooth NBR rubber
Reinforcement: Synthetic cord
External layer: White Chemivic™ synthetic rubber
Working temp.: From -30°C up to +93°C

Delivery hose designed for hot water washdown applications to clean floors and equipment in food processing plants, dairies, packing houses, bottling plants, breweries, canneries, etc. Safety factor 4:1.

| code | I.D. [mm] | O.D. [mm] | bending radius [mm] | working pressure [bar] | weight [kg/m] | standard length [m] |
|------------------|-----------|-----------|---------------------|------------------------|---------------|---------------------|
| GY-SPECTRA300-13 | 12.7 | 23.1 | 125 | 20 | 0.40 | 152.5 |
| GY-SPECTRA300-19 | 19.1 | 30 | 190 | 20 | 0.60 | 152.5 |
| GY-SPECTRA300-25 | 25.4 | 38.1 | 250 | 18 | 0.89 | 137.3 |



FORTRESS 300®

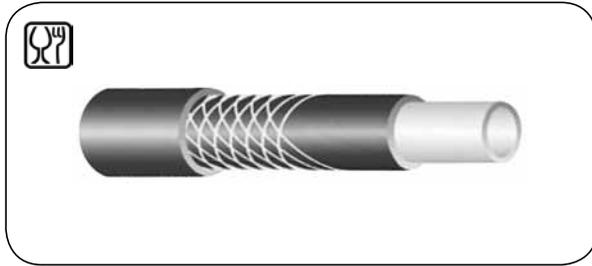
Internal layer: Black NBR rubber compound
Reinforcement: Synthetic cord
External layer: Blue Carbryn® rubber protected by Microban® cover
Working temp.: From -30°C up to +93°C

High-quality, flexible, non-staining, kink and torsion resistant hose. Widely used for washdown applications in food processing plants, dairies, packing houses, bottling plants, breweries, canneries due to Microban® antimicrobial external protection layer that inhibits the growth of bacteria, mold, and fungi. In compliance with ISO 1307.

| code | I.D. [mm] | O.D. [mm] | working pressure [bar] | bursting pressure [bar] | weight [kg/m] | standard length [m] |
|---------------|-----------|-----------|------------------------|-------------------------|---------------|---------------------|
| GY-FORT300-13 | 12.9 | 22.8 | 20 | 80 | 0.43 | 152.5 |
| GY-FORT300-16 | 15.9 | 27 | 20 | 80 | 0.54 | 152.5 |
| GY-FORT300-19 | 19.1 | 30.2 | 20 | 80 | 0.61 | 152.5 |

CLEANING AND WASHING - low pressure

Low pressure hoses for cleaning and washing

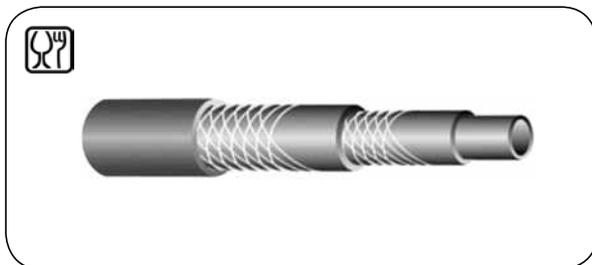


THERMOCLEAN® AL 20

Internal layer: White, smooth PVC
Reinforcement: Synthetic cord
External layer: Blue, smooth PVC
Working temp.: From -15°C up to +70°C

Flexible hose used for washing applications (cold and hot water) and slightly aggressive chemicals. External layer is resistant to animal and vegetable fats. Recommended for food industry. In compliance with European Directive 1935/2004 CE and 2007/19/CE (stimulant A, B and C). Fittings and ferrules should be assembled after the hose is heated for 30 seconds in hot water (+60°C). To be used with hydraulic fittings (TI-Z...) crimped with ferrules or fittings assembled on the hose with the use of safety clamps (that are to be tightened during first use in elevated temperature).

| code | I.D. [mm] | O.D. [mm] | working pressure 20°C/70°C [bar] | bursting pressure 20°C/70°C [bar] | bending radius [mm] | weight [kg/m] | standard length [m] |
|------------------|-----------|-----------|----------------------------------|-----------------------------------|---------------------|---------------|---------------------|
| TR-THERMOAL20-12 | 12 | 20 | 33/20 | 100/60 | 54 | 0.26 | 25 |
| TR-THERMOAL20-16 | 16 | 24 | 33/20 | 100/60 | 72 | 0.32 | 25 |
| TR-THERMOAL20-19 | 19 | 28 | 33/20 | 100/60 | 85.5 | 0.43 | 25 |



THERMOCLEAN® 40

Internal layer: Grey, smooth PVC
Reinforcement: Double polyester cord
External layer: Blue, smooth PVC
Working temp.: From -10°C up to +70°C (with peaks up to +80°C)

Flexible hose used for washing applications (cold and hot water) and slightly aggressive chemicals. External layer is resistant to animal and vegetable fats. Recommended for food industry. In compliance with European Directive 1935/2004 CE and 2007/19/CE (stimulant A, B and C). To be used with crimped THERMOCLEAN fittings.

| code | I.D. [mm] | O.D. [mm] | working pressure 20°C/70°C [bar] | bursting pressure 20°C/70°C [bar] | bending radius [mm] | weight [kg/m] | standard length [m] |
|----------------|-----------|-----------|----------------------------------|-----------------------------------|---------------------|---------------|---------------------|
| TR-THERMO40-12 | 12 | 22 | 80/40 | 240/120 | 42 | 0.33 | 50 |

CLEANING AND WASHING - low pressure

Low pressure hoses for cleaning and washing



THERMOCLEAN 100

Internal layer: White, smooth PVC
Reinforcement: Polyester cord
External layer: Blue, smooth PVC
Working temp.: From -15°C up to +100°C
 (with peaks up to +120°C)

Flexible hose used for washing applications (cold and hot water) and slightly aggressive chemicals. External layer is resistant to animal and vegetable fats. Recommended for food industry. In compliance with European Directive 1935/2004 CE and 2007/19/CE (stimulant A, B and C). To be used with crimped THERMOCLEAN fittings.

| code | I.D. [mm] | O.D. [mm] | working pressure 20°C/100°C [bar] | bursting pressure 20°C/100°C [bar] | bending radius [mm] | weight [kg/m] | standard length [m] |
|------------------|--------------|--------------|--|---|---------------------------|------------------|---------------------------|
| TR-THERMO100-013 | 13 | 22 | 30/15 | 90/45 | 40 | 0.31 | 40 |
| TR-THERMO100-016 | 16 | 25 | 30/15 | 90/45 | 47.5 | 0.36 | 40 |
| TR-THERMO100-019 | 19 | 28 | 30/15 | 90/45 | 57.5 | 0.41 | 40 |
| TR-THERMO100-025 | 25 | 34 | 26/13 | 78/39 | 75 | 0.52 | 40 |



Fittings for THERMOCLEAN hoses

For THERMOCLEAN hoses we can use hydraulic fittings (TI-Z...) along with industrial ferrules (TI-L...) or special fittings (hygienic finish) with integrated ferrule made of AISI 304. Fittings with different threads, material or for different diameters are also available.

| code | BSP thread size [inch] | hose I.D. [mm] |
|-------------------------|---------------------------|-------------------|
| TR-THERMO-12-BZ140-08SS | 1/2 | 12 ÷ 13 |

CLEANING AND WASHING - low pressure

NiTO water spray guns

|  <p>NiTO LIGHT DUTY</p> | code | connection | description |
|---|------------|--------------------|--|
| | NT-28002A8 | 3/4" female thread | General purpose, lightweight, economical water spray gun with adjustable outlet nozzle, smooth flow control. Made of brass with blue polyurethane outside shield. Working press.: 7 bar. Working temp.: up to +60°C. |

|  <p>NiTO I</p> | code | connection | description |
|--|-----------------|------------------|---|
| | NT-53800A1 | 1/2" NiTO plug | General purpose, lightweight water spray gun with adjustable outlet nozzle, smooth linear flow control and trigger lock. Also available in blue, white, red, yellow and green colour. Weight: 0.295 kg. Cover body: highly durable material. Nozzle: chrome-plated brass. Working press.: 6 bar at 40°C. 4 bar at 60°C. Flow rate: 8.5 ÷ 10.5 l/min (3 bar). |
| | NT-63820A1 | 3/4" NiTO plug | |
| | NT-53802A5 | 1/2" male thread | |
| NT-59800A1 | 1/2" CLICK plug | | |

|  <p>NiTO II</p> | code | connection | description |
|---|------------|------------------------------|--|
| | NT-30550A3 | 3/4" female thread | Industrial water spray gun with adjustable outlet nozzle, smooth linear flow control and trigger lock. The cover body is impact resistant. Casing: composite material. Weight: 0.7 kg. Working press.: 25 bar. Flow rate: 20 ÷ 60 l/min (5 bar) depending on the assembled nozzle. Flow rate with standard nozzle: 40 l/min. Working temp.: up to +90°C. |
| | NT-30525A3 | 1/2" NiTO plug | |
| | NT-30500A3 | 3/4" NiTO plug | |
| | NT-30520A3 | 1" NiTO plug | |
| | NT-30530A3 | 1/2" hose tail | |
| | NT-30510A3 | 3/4" hose tail | |
| NT-30210A0 | | Nozzle set 20, 30, 60 l/min. | |

|  <p>NiTO HEAVY DUTY</p> | code | connection | description |
|---|----------------|--------------------|--|
| | NT-30000A0 | 1/2" female thread | Industrial water spray gun with adjustable outlet nozzle and linear flow control. Cover body: synthetic rubber. Weight: 1.1 kg. Working press.: up to 25 bar. Flow rate: 25 ÷ 42 l/min (5 bar). Working temp.: up to +80°C. |
| | NT-30000A3 | 3/4" hose tail | |
| | NT-30030A3 | 1/2" NiTO plug | |
| NT-30010A3 | 3/4" NiTO plug | | |

|  <p>NiTO ERGO</p> | code | connection | description |
|---|----------------|----------------|--|
| | NT-40525A3 | 1/2" NiTO plug | General purpose, ergonomic design, lightweight water spray gun with adjustable outlet nozzle, smooth linear flow control and trigger with lock function. Weight: 0.5 kg. Cover body: composite material. Nozzle: chrome-plated brass. Working press.: up to 12 bar. Working temp.: up to +80°C. Flow rate: 50 l/min (5 bar). |
| NT-40500A3 | 3/4" NiTO plug | | |

CLEANING AND WASHING - low pressure

AKBO water spray guns

| | | code | version | description |
|--|--|--------------------------|---|---|
|  AK-RN001-BL AK-RN001-W |  AK-RNP01-BL AK-RNP01-W | AK-RN001-BL | blue | HEAVY DUTY water spray gun of AISI 316 steel. Working press.: 24 bar. Working temp.: up to +95°C. |
| | | AK-RNP01-BL | blue trigger protection | |
|  AK-RNP01-W | AK-RN001-W | white | | |
| | AK-RNP01-W | white trigger protection | | |
|  AK-RHP01-R | AK-RHP01-R | red | HEAVY DUTY water spray gun of AISI 316 steel, with PTFE-air insulation. Working press.: 24 bar. Working temp.: up to +95°C. | |
| | AK-RHP02-R-L40 | red lance 40 cm | | |
| Note! <ul style="list-style-type: none"> - the guns are not designed for steam, - special precautions must be taken when the gun is used for hot water. | | | | |

Water jets

| | | code | connection | material | description |
|--|------------|--------------------|---------------------|---|-------------|
|     | NT-53750A3 | 1/2" NiTO plug | chrome-plated brass | Adjustable nozzle. Working press.: up to 25 bar. | |
| | NT-63750A3 | 3/4" NiTO plug | chrome-plated brass | | |
| | NT-20300A9 | 3/4" female thread | nickel-plated brass | | |
| | NT-20000A4 | 15/20 mm hose tail | brass | | |

| | | code | connection | description |
|---|----------------------|--------------------|---|-------------|
|  HANDFIGHTER | IN-59481-020 (short) | 3/4" male thread | An industrial water jet with adjustable outlet nozzle. The application of a safety ring made of EPDM rubber gives additional protection against mechanical damage. Material: brass Cover body: highly resistant orange plastic Nozzle: 7 mm. Working pressure: 16bar. Flow rate: 75 l/min (6 bar). | |
| | IN-59481-120 (short) | 19 mm hose tail | | |
| | IN-59481-220 (long) | 3/4" female thread | | |
| | IN-59481-225 (long) | 1" male thread | | |
| | IN-59482-020 (short) | 3/4" male thread | An industrial water jet with adjustable outlet nozzle. The application of a safety ring of EPDM rubber gives additional protection against mechanical damage. Material: brass Cover body: highly resistant red material. Nozzle: 10 mm. Working pressure: 16 bar. Flow rate: 150 l/min (6 bar). | |
| | IN-59482-125 (short) | 25 mm hose tail | | |
| | IN-59482-220 (long) | 3/4" female thread | | |
| | IN-59482-225 (long) | 1" male thread | | |

CLEANING AND WASHING - low pressure

NiTO CLEAN sets for foam cleaning and rinsing



Foam cleaning gives better results and is more effective and economical than traditional methods. A layer of foam is sprayed over the surface to be cleaned using NiTO CLEAN device. The device consists of NiTO gun in COMBI version, container for chemical agent with injector and dosage nozzles. The correct dosage of chemical agent is ensured by the use of precision nozzles of selected size (from 0.4% to 10% dosage of chemical agent). When the cleaning action is completed, the foam is rinsed with water using the gun with a suitable nozzle attached. The NiTO COMBI guns can also be used without containers to wash surfaces using several other types of nozzles.

| code | description |
|------------|--|
| NT-57105A8 | NiTO I COMBI water spray gun with 1/2" plug (max. working temp.: +40°C, max. pressure: 6 bar). |
| NT-30800A3 | NiTO II COMBI with 3/4" female thread (max. working temp.: +90°C, max. pressure: 25 bar). |
| NT-57140A1 | Short adjustable nozzle. |
| NT-9350 | 17 cm lance, small nozzle (black). |
| NT-9351 | 17 cm lance, large nozzle (blue). |
| NT-9352 | 65 cm angular lance, small nozzle (black). |
| NT-9353 | 65 cm angular lance, large nozzle (blue) |
| NT-93055 | Foam set: NiTO I water spray gun + 17 cm lance + 1.4 l container (max. working temp. +40°C, max. pressure: 6 bar). |
| NT-93065 | Foam set: NiTO I water spray gun + 17 cm lance + 2.5 l container (max. working temp. +40°C, max. pressure: 6 bar). |
| NT-93005 | Foam set: NiTO ERGO water spray gun + 17 cm lance + 1.4 l container (max. working temp. +60°C, max. pressure: 10 bar). |
| NT-93015 | Foam set: NiTO ERGO water spray gun + 17 cm lance + 2.5 l container (max. working temp. +60°C, max. pressure: 10 bar). |
| NT-9378 | Set of 14 dosing nozzles (0.4% + 10%). |
| NT-93139 | Foam injector with NiTO ERGO handle and suction hose |
| NT-93149 | Foam injector with suction hose |
| NT-93105 | 1.4 litre, white container (red, blue, yellow and green also available) |
| NT-93115 | 2.5 litre, white container (red, blue, yellow and green also available) |
| NT-93189 | Blank plug for NiTO CLEAN container |