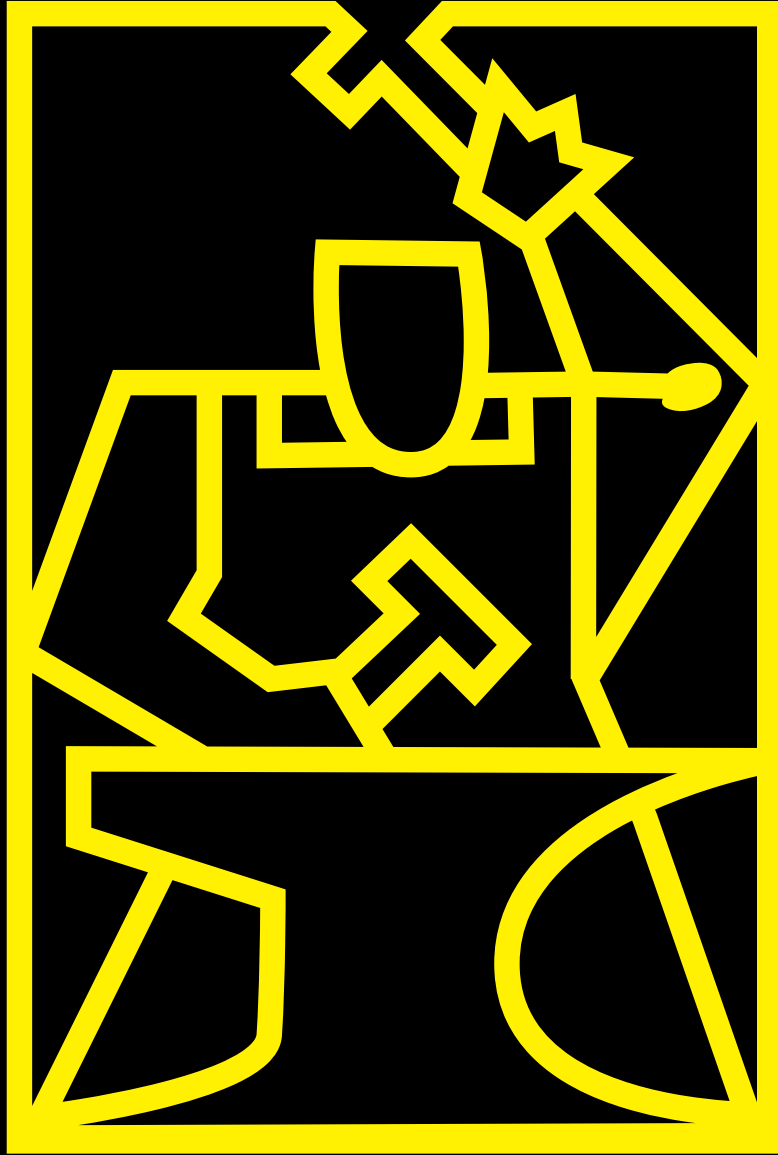
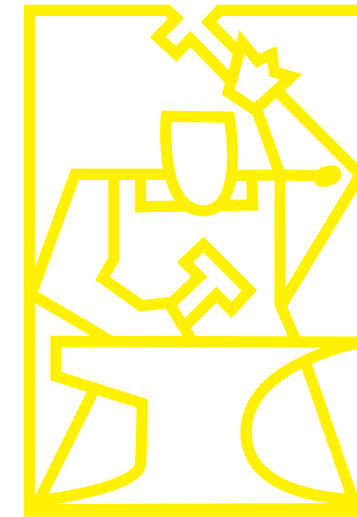




**KOTHAR™**



**KOTHAR™**

06

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About Kothar 06

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**Founded in 2002, Kothar is a company that specializes in designing, engineering and producing top quality products and components for car wash and high-pressure cleaning equipment.**

*Kothar's products are innovative and offer an exceptional flexibility in workflow.*

Kothar understands the demands in price, quality and product range in the industrial cleaning sector. Thanks to wide-ranging expertise in foreign markets, distribution and product stock, Kothar has the resources to provide high-quality and user-friendly products at a competitive price not found anywhere else.

Kothar's products are innovative and offer an exceptional flexibility in workflow. In addition, Kothar has the capability and know-how to develop customized products and systems in a quick and efficient manner. Kothar's team of experts is always readily available for any customer need. Kothar has the expertise, tools, and manpower to take any idea from the design process - through manufacturing, testing and quality control - to the market and end-user. Strong relationships with factories and distributors give Kothar the ability to adapt to customer needs, as well as to cast a large selection of its own products.

Kothar's partner factories all offer a wide variety of production techniques and methods. These methods range on a vast production spectrum.

Kothar can design and produce everything from very simple to very complex alloy parts and components. All Kothar products are made with the most competitive cost and the highest possible quality standard in mind.

Kothar has strategically located its Design & Development department in Dalian, China. Product stock is, however, centrally located in the Netherlands for fast and easy distribution to all European and World markets. Moreover, close alliances have been established with factories based in Beijing, Dalian and Ningbo. As such, Kothar has a unique advantage in flexibility and customization to the benefit of the customer.

No client is too small or too big for Kothar. We are able to design, produce and engineer custom products and work systems for any company or professional in need of high-pressure industrial cleaning equipment. Kothar, in addition, provides all customers with advice and assisting services during the set-up of work systems to ensure the achievement of maximum results.

# ***VALVES***

PRESSURE REGULATORS

100 070 024 SERIE

- Completely Stainless Steel
- Stainless Steel, PEEK and NBR internal parts for temperature, wear and liquid compatibility
- Minimum pressure variation
- Extremely easy to service



BYPASS VALVES

100 070 025 SERIE

- Completely Stainless Steel
- Stainless Steel, PEEK and NBR internal parts for temperature, wear and liquid compatibility
- Minimum pressure variation
- Extremely easy to service



BYPASS VALVES

100 070 110 SERIE

- Completely Stainless Steel
- Stainless Steel, PEEK and NBR internal parts for temperature, wear and liquid compatibility
- Minimum pressure variation
- Extremely easy to service



BYPASS VALVES

100 070 140 SERIE

- Completely Stainless Steel
- Stainless Steel, PEEK and NBR internal parts for temperature, wear and liquid compatibility
- Minimum pressure variation
- Extremely easy to service



| Product number | Inlet | Bypass | Pressure Range | Flow Range | Max Temperature |
|----------------|-------|--------|----------------|------------|-----------------|
| 100 070 024    | 1/4"F | 3/8"F  | 6-20BAR        | 0-35L/Min  | 80°             |
| 100 070 034    | 1/4"F | 3/8"F  | 10-70BAR       | 0-35L/Min  | 80°             |
| 100 070 044    | 1/4"F | 3/8"F  | 30-105BAR      | 0-35L/Min  | 80°             |
| 100 070 054    | 1/4"F | 3/8"F  | 50-155BAR      | 0-35L/Min  | 80°             |
| 100 070 064    | 1/4"F | 3/8"F  | 70-210BAR      | 0-35L/Min  | 80°             |

| Product number | Inlet-Outlet | Bypas | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|-------|----------------|------------|-----------------|
| 100 070 025    | 3/8"F        | 3/8"F | 6-20BAR        | 0-35L/Min  | 80°             |
| 100 070 035    | 3/8"F        | 3/8"F | 10-70BAR       | 0-35L/Min  | 80°             |
| 100 070 045    | 3/8"F        | 3/8"F | 30-105BAR      | 0-35L/Min  | 80°             |
| 100 070 055    | 3/8"F        | 3/8"F | 50-155BAR      | 0-35L/Min  | 80°             |
| 100 070 065    | 3/8"F        | 3/8"F | 70-210BAR      | 0-35L/Min  | 80°             |

| Product number | Inlet-Outlet | Bypass | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|--------|----------------|------------|-----------------|
| 100 070 010    | 3/8"F        | 1/2"F  | 0-20BAR        | 0-45L/Min  | 90°             |
| 100 070 020    | 1/2"F        | 3/4"F  | 0-20BAR        | 0-70L/Min  | 90°             |
| 100 070 110    | 3/8"F        | 1/2"F  | 10-70BAR       | 0-45L/Min  | 90°             |
| 100 070 120    | 1/2"F        | 3/4"F  | 10-70BAR       | 0-70L/Min  | 90°             |
| 100 070 210    | 3/8"F        | 1/2"F  | 40-200BAR      | 0-45L/Min  | 90°             |
| 100 070 220    | 1/2"F        | 3/4"F  | 40-200BAR      | 0-70L/Min  | 90°             |

| Product number | Inlet-Outlet | Bypass  | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|---------|----------------|------------|-----------------|
| 100 070 140    | 3/4"F        | 1"F     | 10-70BAR       | 0-140L/Min | 90°             |
| 100 070 150    | 1"F          | 1 1/4"F | 10-70BAR       | 0-260L/Min | 90°             |
| 100 070 160    | 1 1/4"F      | 1 1/2"F | 10-70BAR       | 0-400L/Min | 90°             |
| 100 070 240    | 3/4"F        | 1"F     | 40-150BAR      | 0-140L/Min | 90°             |
| 100 070 250    | 1"F          | 1 1/4"F | 40-150BAR      | 0-260L/Min | 90°             |
| 100 070 260    | 1 1/4"F      | 1 1/2"F | 40-150BAR      | 0-400L/Min | 90°             |
| 100 070 340    | 3/4"F        | 1"F     | 70-250BAR      | 0-140L/Min | 90°             |
| 100 070 350    | 1"F          | 1 1/4"F | 70-250BAR      | 0-260L/Min | 90°             |
| 100 070 360    | 1 1/4"F      | 1 1/2"F | 70-250BAR      | 0-400L/Min | 90°             |



PNEUMATIC REGULATORS

100 070 511 SERIE

- Stainless Steel body with Aluminium Head
- Stainless Steel, PEEK and NBR internal parts for temperature, wear and liquid compatibility
- Minimum pressure variation
- Extremely easy to service



| Product number | Inlet-Outlet | Bypass | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|--------|----------------|------------|-----------------|
| 100 070 511    | 3/8"F        | 1/2"F  | 0-250BAR       | 0-45L/Min  | 90°             |
| 100 070 521    | 1/2"F        | 3/4"F  | 0-250BAR       | 0-70L/Min  | 90°             |

PNEUMATIC REGULATORS

100 070 541 SERIE

- Stainless Steel body with Aluminium Head
- Stainless Steel, PEEK and NBR internal parts for temperature, wear and liquid compatibility
- Minimum pressure variation
- Extremely easy to service



| Product number | Inlet-Outlet | Bypass  | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|---------|----------------|------------|-----------------|
| 100 070 541    | 3/4"F        | 1"F     | 0-250BAR       | 0-140L/Min | 90°             |
| 100 070 551    | 1"F          | 1 1/4"F | 0-250BAR       | 0-260L/Min | 90°             |
| 100 070 561    | 1 1/4"F      | 1 1/2"F | 0-250BAR       | 0-400L/Min | 90°             |

UNLOADER VALVES 3/8"

100 050 400 SERIE

- Completely Stainless Steel
- Simple unloader with only in- out and bypass
- Plastic handle available



| Product number | Inlet-Outlet | Bypass | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|--------|----------------|------------|-----------------|
| 100 050 400    | 3/8"F        | 3/8"F  | 0-150BAR       | 0-35L/Min  | 90°             |
| 100 050 420    | 3/8"F        | 3/8"F  | 0-250BAR       | 0-35L/Min  | 90°             |

| Accessories |                |  |  |  |  |
|-------------|----------------|--|--|--|--|
| 110 050 255 | Plastic Handle |  |  |  |  |

UNLOADER VALVES 3/8"

100 050 110 SERIE

- Completely Stainless Steel
- Two Possible Bypass Ports
- Manometer connection
- Inlet from the side or bottom possible
- Plastic handle available



| Product number | Inlet-Outlet | Bypass | Gauge | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|--------|-------|----------------|------------|-----------------|
| 100 050 110    | 3/8"F        | 3/8"F  | 1/4"F | 0-150BAR       | 0-35L/Min  | 90°             |
| 100 050 112    | 3/8"F        | 3/8"F  | 1/4"F | 0-250BAR       | 0-35L/Min  | 90°             |
| 100 050 115    | 3/8"F        | 3/8"F  | 1/4"F | 0-340BAR       | 0-35L/Min  | 90°             |

| Accessories |                |  |  |  |  |
|-------------|----------------|--|--|--|--|
| 110 050 255 | Plastic Handle |  |  |  |  |

UNLOADER VALVES 1/2"

100 050 210 SERIE

- Completely Stainless Steel
- Two Possible Bypass Ports
- Manometer connection
- Inlet from the side or bottom possible



UNLOADER VALVES 3/4"

100 050 310 SERIE

- Completely Stainless Steel
- Two Possible Bypass Ports
- Manometer connection
- Inlet from the side or bottom possible



PNEUMATIC OPEN-CLOSE VALVES (NC)

100 010 100 SERIE

- Stainless Steel Valves
- Efficient double piston system to open against 200BAR with less then 8BAR air pressure
- Smart design allows flow through
- Easy to combine into larger manifolds



CHECK VALVES

100 032 900 SERIE

- Stainless steel body
- PEEK and stainless steel internal parts
- Full Flow through
- Chemical resistant
- Low opening force



| Product number | Inlet-Outlet | Bypass | Gauge | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|--------|-------|----------------|------------|-----------------|
| 100 050 210    | 1/2"F        | 1/2"F  | 1/4"F | 0-150BAR       | 0-70L/Min  | 90°             |
| 100 050 212    | 1/2"F        | 1/2"F  | 1/4"F | 0-250BAR       | 0-70L/Min  | 90°             |

| Product number | Inlet-Outlet | Bypass | Gauge | Pressure Range | Flow Range | Max Temperature |
|----------------|--------------|--------|-------|----------------|------------|-----------------|
| 100 050 310    | 3/4"F        | 3/4"F  | 1/4"F | 0-150BAR       | 0-120L/Min | 90°             |
| 100 050 312    | 3/4"F        | 3/4"F  | 1/4"F | 0-250BAR       | 0-120L/Min | 90°             |

| Product number | Inlet   | Outlet  | Pressure Range | Flow Range  | Max Temperature |
|----------------|---------|---------|----------------|-------------|-----------------|
| 100 010 100    | 1/4"F   | 1/4"F   | 0-200BAR       | 0-35L/Min   | 90°             |
| 100 010 200    | 3/8"F   | 3/8"F   | 0-100BAR       | 0-40L/Min   | 90°             |
| 100 010 210    | 3/8"F   | 3/8"F   | 0-200BAR       | 0-40L/Min   | 90°             |
| 100 020 130    | 1"F     | 1"F     | 20-600BAR      | 0-600L/Min  | 90°             |
| 100 020 140    | 1 1/2"F | 1 1/2"F | 20-600BAR      | 0-1200L/Min | 90°             |
| 100 020 160    | 2"F     | 2"F     | 20-600BAR      | 0-2000L/Min | 90°             |

| Product number | Inlet   | Outlet  | Max Pressure | Max Temperature |
|----------------|---------|---------|--------------|-----------------|
| 100 032 900    | 1/4"F   | 1/4"F   | 250BAR       | 90°             |
| 100 032 903    | 1/4"F   | 1/4"M   | 250BAR       | 90°             |
| 100 032 910    | 3/8"F   | 3/8"F   | 250BAR       | 90°             |
| 100 032 920    | 1/2"F   | 1/2"F   | 250BAR       | 90°             |
| 100 032 930    | 3/4"F   | 3/4"F   | 250BAR       | 90°             |
| 100 032 940    | 1"F     | 1"F     | 250BAR       | 90°             |
| 100 032 950    | 1 1/2"F | 1 1/2"F | 250BAR       | 90°             |
| 100 032 960    | 2"F     | 2"F     | 250BAR       | 90°             |



# ***FLOW SWITCHES***

FLOW SWITCHES

100 080 050 SERIE

- Stainless steel flow switch with magnetic plunger
- Switches on high and low volume
- Works as a check valve at the same time
- Chemical resistant
- Available with Aventics Sensors



| Product number | Inlet | Outlet | Max Pressure | Pressure Sensor Port | Flow Range | Max Temperature |
|----------------|-------|--------|--------------|----------------------|------------|-----------------|
| 100 080 050    | 1"F   | 1"F    | 250BAR       | 3/8"F                | 0-260L/Min | 90°             |
| 100 080 051    | 1"M   | 1"M    | 250BAR       | 3/8"F                | 0-260L/Min | 90°             |
| 100 080 060    | 3/4"F | 3/4"F  | 250BAR       |                      | 0-150L/Min | 90°             |
| 100 080 070    | 3/8"F | 3/8"F  | 300BAR       |                      | 0-35L/Min  | 90°             |
| 100 080 075    | 1/2"F | 1/2"F  | 300BAR       |                      | 0-70L/Min  | 90°             |

| Available Sensors |                                           |
|-------------------|-------------------------------------------|
| 275 013 231       | REED Switch w/ 2.5M Cable                 |
| 275 013 111       | CYL Switch, PNP, Solid state w/2.5M Cable |

# ***FOAMING DEVICES***

TURN & CLEAN Y2

200 042 820 SERIE

- 2 Products, one outlet
- Stainless steel 316 unibody design
- Preset dosing
- On wall service possibility
- Easy to mount, repair, maintain and clean



TURN & CLEAN Y2 PREDILUTED

200 042 920 SERIE

- 2 Products, one outlet
- Stainless steel 316 unibody design
- Suitable for pre-mixed chemicals
- On wall service possibility
- Easy to mount, repair, maintain and clean



TURN & CLEAN Y3

200 042 850 SERIE

- 3 Products, one outlet
- Stainless steel 316 unibody design
- Preset dosing
- On wall service possibility
- Easy to mount, repair, maintain and clean



TURN & CLEAN Y3 PREDILUTED

200 042 950 SERIE

- 3 Products, one outlet
- Stainless steel 316 unibody design
- Suitable for pre-mixed chemicals
- 2 Pre-mixed and 1 concentrated chemical model available
- Easy to mount, repair, maintain and clean



| Product number | Inlet | Outlet | Injector Size | Pressure Range | Air                 |
|----------------|-------|--------|---------------|----------------|---------------------|
| 200 042 820    | 1/2"F | 1/2"M  | 1.2mm         | 100+BAR        | Foam                |
| 200 042 830    | 1/2"F | 1/2"M  | 1.5mm         | 50-150BAR      | Foam                |
| 200 042 840    | 1/2"F | 1/2"M  | 1.7mm         | 20-50BAR       | Foam                |
| 200 042 825    | 1/2"F | 1/2"M  | 1.2mm         | 100+BAR        | Foam / Disinfectant |
| 200 042 835    | 1/2"F | 1/2"M  | 1.5mm         | 50-150BAR      | Foam / Disinfectant |
| 200 042 845    | 1/2"F | 1/2"M  | 1.7mm         | 20-50BAR       | Foam / Disinfectant |

| Product number | Inlet | Outlet | Orifice | Pressure Range | Compressed Air      |
|----------------|-------|--------|---------|----------------|---------------------|
| 200 042 920    | 1/2"F | 1/2"M  | 2.6mm   | 50-150BAR      | Foam                |
| 200 042 940    | 1/2"F | 1/2"M  | 2.6mm   | 20-50BAR       | Foam                |
| 200 042 925    | 1/2"F | 1/2"M  | 2.6mm   | 50-150BAR      | Foam / Disinfectant |
| 200 042 945    | 1/2"F | 1/2"M  | 2.6mm   | 20-50BAR       | Foam / Disinfectant |

| Product number | Inlet | Outlet | Injector Size | Pressure Range | Air                            |
|----------------|-------|--------|---------------|----------------|--------------------------------|
| 200 042 850    | 1/2"F | 1/2"M  | 1.2mm         | 100+BAR        | Foam 1 / Foam 2                |
| 200 042 860    | 1/2"F | 1/2"M  | 1.5mm         | 50-150BAR      | Foam 1 / Foam 2                |
| 200 042 870    | 1/2"F | 1/2"M  | 1.7mm         | 20-50BAR       | Foam 1 / Foam 2                |
| 200 042 855    | 1/2"F | 1/2"M  | 1.2mm         | 100+BAR        | Foam 1 / Foam 2 / Disinfectant |
| 200 042 865    | 1/2"F | 1/2"M  | 1.5mm         | 50-150BAR      | Foam 1 / Foam 2 / Disinfectant |
| 200 042 875    | 1/2"F | 1/2"M  | 1.7mm         | 20-50BAR       | Foam 1 / Foam 2 / Disinfectant |

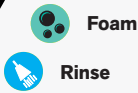
| Product number | Inlet | Outlet | Orifice | Pressure Range | Compressed Air                 |
|----------------|-------|--------|---------|----------------|--------------------------------|
| 200 042 950    | 1/2"F | 1/2"M  | 2.6mm   | 50-150BAR      | Foam 1 / Foam 2                |
| 200 042 970    | 1/2"F | 1/2"M  | 2.6mm   | 20-50BAR       | Foam 1 / Foam 2                |
| 200 042 955    | 1/2"F | 1/2"M  | 1.2mm   | 50-150BAR      | Foam 1 / Foam 2 / Disinfectant |
| 200 042 975    | 1/2"F | 1/2"M  | 1.5mm   | 20-50BAR       | Foam 1 / Foam 2 / Disinfectant |

| Turn & Clean Y3 Combo |       |        |            |         |              |               |               |                                |
|-----------------------|-------|--------|------------|---------|--------------|---------------|---------------|--------------------------------|
| Product number        | Inlet | Outlet | Prediluted | Orifice | Concentrated | Injector Size | Max. Pressure | Compressed Air                 |
| 200 042 980           | 1/2"F | 1/2"M  | 2          | 2.6mm   | 1            | 1.5mm         | 50-150BAR     | Foam 1 / Foam 2                |
| 200 042 990           | 1/2"F | 1/2"M  | 2          | 2.6mm   | 1            | 1.7mm         | 0-50BAR       | Foam 1 / Foam 2                |
| 200 042 985           | 1/2"F | 1/2"M  | 2          | 2.6mm   | 1            | 1.5mm         | 50-150BAR     | Foam 1 / Foam 2 / Disinfectant |
| 200 042 995           | 1/2"F | 1/2"M  | 2          | 2.6mm   | 1            | 1.7mm         | 0-50BAR       | Foam 1 / Foam 2 / Disinfectant |

FOAM & RINSE EASYFOAMER

200 040 700 SERIE

- Foam&Rinse functionality
- Excellent foam due to compressed air
- Compact and light
- Preset dosing

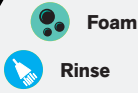


| Product number | Inlet | Outlet | Injector Size | Pressure Range | Max Temperature |
|----------------|-------|--------|---------------|----------------|-----------------|
| 200 040 700    | 3/8"F | 1/2"M  | 1.5mm         | 20-150BAR      | 90°             |
| 200 040 710    | 3/8"F | 1/2"M  | 1.2mm         | 50-150BAR      | 90°             |
| 200 040 720    | 3/8"F | 1/2"M  | 1.7mm         | 20-50BAR       | 90°             |

FOAM & RINSE INJECTOR

200 045 690 SERIE

- Foam&Rinse functionality
- No compressed air needed
- Compact and light
- Preset dosing



| Product number | Inlet | Outlet | Injector Size | Max Pressure | Max Temperature |
|----------------|-------|--------|---------------|--------------|-----------------|
| 200 045 690    | 3/8"M | 3/8"M  | 1.2mm         | 200BAR       | 90°             |
| 200 045 700    | 3/8"M | 3/8"M  | 1.5mm         | 200BAR       | 90°             |
| 200 045 710    | 3/8"M | 3/8"M  | 1.6mm         | 200BAR       | 90°             |
| 200 045 720    | 3/8"M | 3/8"M  | 1.7mm         | 200BAR       | 90°             |
| 200 045 730    | 3/8"M | 3/8"M  | 1.9mm         | 200BAR       | 90°             |
| 200 045 740    | 3/8"M | 3/8"M  | 2.1mm         | 200BAR       | 90°             |
| 200 045 750    | 3/8"M | 3/8"M  | 2.3mm         | 200BAR       | 90°             |
| 200 045 760    | 3/8"M | 3/8"M  | 3.1mm         | 200BAR       | 90°             |

EASYFOAMER

200 032 700 SERIE

- Injector with compressed air
- Water, chemical and air in; foam out
- Heavy duty foamer



| Product number | Inlet | Outlet | Injector Size | Pressure Range | Max Temperature |
|----------------|-------|--------|---------------|----------------|-----------------|
| 200 032 700    | 3/8"F | 1/2"M  | 1.5mm         | 20-150BAR      | 90°             |
| 200 032 710    | 3/8"F | 1/2"M  | 1.2mm         | 50-150BAR      | 90°             |
| 200 032 720    | 3/8"F | 1/2"M  | 1.7mm         | 20-50BAR       | 90°             |

AIR INJECTOR

200 052 190 SERIE

- Completely Stainless Steel
- Efficient low cost design



| Product number | Inlet | Outlet | Injector Size | Max Pressure | Max Temperature |
|----------------|-------|--------|---------------|--------------|-----------------|
| 200 052 190    | 1/4"F | 1/4"M  | 1.2mm         | 250BAR       | 90°             |
| 200 052 193    | 1/4"F | 1/4"M  | 1.5mm         | 250BAR       | 90°             |
| 200 052 194    | 1/4"F | 1/4"M  | 2.5mm         | 250BAR       | 90°             |

CHEMICAL INJECTOR

200 034 690 SERIE

- Traditional chemical injector
- Stainless steel body
- PEEK Plunger inside



Foam



| Product number | Inlet | Outlet | Injector Size | Max Pressure | Max Temperature |
|----------------|-------|--------|---------------|--------------|-----------------|
| 200 034 690    | 3/8"M | 3/8"M  | 1.2mm         | 200BAR       | 90°             |
| 200 034 700    | 3/8"M | 3/8"M  | 1.5mm         | 200BAR       | 90°             |
| 200 034 710    | 3/8"M | 3/8"M  | 1.6mm         | 200BAR       | 90°             |
| 200 034 720    | 3/8"M | 3/8"M  | 1.7mm         | 200BAR       | 90°             |
| 200 034 730    | 3/8"M | 3/8"M  | 1.9mm         | 200BAR       | 90°             |
| 200 034 740    | 3/8"M | 3/8"M  | 2.1mm         | 200BAR       | 90°             |
| 200 034 750    | 3/8"M | 3/8"M  | 2.3mm         | 200BAR       | 90°             |
| 200 034 760    | 3/8"M | 3/8"M  | 3.1mm         | 200BAR       | 90°             |
| 200 034 765    | 1/2"M | 1/2"M  | 3.1mm         | 200BAR       | 90°             |

ADJUSTABLE CHEMICAL INJECTOR

200 034 390 SERIE

- Chemical injector with dosing wheel
- Stainless steel body
- PEEK Plunger inside
- Excellent replacement for KEW ALTO injector



Foam



| Product number | Inlet | Outlet | Injector Size | Max Pressure | Max Temperature |
|----------------|-------|--------|---------------|--------------|-----------------|
| 200 034 390    | 3/8"M | 3/8"M  | 1.2mm         | 200BAR       | 90°             |
| 200 034 400    | 3/8"M | 3/8"M  | 1.5mm         | 200BAR       | 90°             |
| 200 034 410    | 3/8"M | 3/8"M  | 1.6mm         | 200BAR       | 90°             |
| 200 034 420    | 3/8"M | 3/8"M  | 1.7mm         | 200BAR       | 90°             |
| 200 034 430    | 3/8"M | 3/8"M  | 1.9mm         | 200BAR       | 90°             |
| 200 034 440    | 3/8"M | 3/8"M  | 2.1mm         | 200BAR       | 90°             |
| 200 034 450    | 3/8"M | 3/8"M  | 2.3mm         | 200BAR       | 90°             |
| 200 034 460    | 3/8"M | 3/8"M  | 3.1mm         | 200BAR       | 90°             |

DYNAMIC FOAM LANCES

200 052 080 SERIE

- Lance that draws in air to create foam
- Best used in combination with injector
- Completely stainless steel lance, excellent for use in the food industry
- Great air suction



| Product number | Inlet | Injector Size | Use with injector size |
|----------------|-------|---------------|------------------------|
| 200 052 080    | 1/4"F | 1.8mm         | 1.2mm                  |
| 200 052 090    | 1/4"F | 2.0mm         | 1.5mm                  |
| 200 052 100    | 1/4"F | 2.2mm         | 1.7mm                  |

DYNAMIC FOAM LANCES

200 052 120 SERIE

- Lance that draws in air to create foam
- Best used in combination with injector
- Plastic protection with stainless steel internal parts
- Great air suction



| Product number | Inlet | Injector Size | Use with injector size |
|----------------|-------|---------------|------------------------|
| 200 052 120    | 1/4"F | 1.8mm         | 1.2mm                  |
| 200 052 130    | 1/4"F | 2.0mm         | 1.5mm                  |
| 200 052 140    | 1/4"F | 2.2mm         | 1.7mm                  |
| 200 052 150    | 1/4"F | 1.4mm         |                        |



FOAM LANCES

200 052 210 SERIE

- Open pipe foam lance for easy foam distribution
- Completely stainless steel, excellent for industrial use



| Product number | Inlet | Length |
|----------------|-------|--------|
| 200 052 210    | 3/8"M | 200mm  |
| 200 052 220    | 1/2"M | 200mm  |
| 200 052 230    | 1/4"M | 400mm  |

ECO ADJUSTABLE CHEMICAL INJECTOR

200 034 570 SERIE

- Chemical injector with dosing wheel
- Stainless steel
- Economy design, low cost



Foam



| Product number | Inlet | Outlet | Injector Size | Max Pressure | Max Temperature |
|----------------|-------|--------|---------------|--------------|-----------------|
| 200 034 570    | 3/8"M | 3/8"M  | 1.2mm         | 200BAR       | 90°             |
| 200 034 580    | 3/8"M | 3/8"M  | 1.5mm         | 200BAR       | 90°             |

# ***QUICK COUPLINGS***



KT 3000 PLUG

- Male part available in 1/4", 3/8" and 1/2" with male or female thread
- Available in SS304 or SS316



KT 3000 COUPLER

- Female part of the quick coupling
- Comes in sizes 1/4", 3/8" and 1/2" with both male and female thread
- Available in SS304 or SS316
- Blue rubber protector available



SNAP TITE PLUG

- Male part for Snap Tite models, only available in SS304 with a 1/2"F connection



| Product number | Connection | Material | Max Pressure | Max Temperature |
|----------------|------------|----------|--------------|-----------------|
| 200 070 721    | 1/4"F      | SS304    | 350BAR       | 90°             |
| 200 070 722    | 3/8"F      | SS304    | 350BAR       | 90°             |
| 200 070 723    | 1/2"F      | SS304    | 350BAR       | 90°             |
| 200 070 724    | 1/4"M      | SS304    | 350BAR       | 90°             |
| 200 070 725    | 3/8"M      | SS304    | 350BAR       | 90°             |
| 200 070 726    | 1/2"M      | SS304    | 350BAR       | 90°             |
| 200 070 821    | 1/4"F      | SS316    | 350BAR       | 90°             |
| 200 070 822    | 3/8"F      | SS316    | 350BAR       | 90°             |
| 200 070 823    | 1/2"F      | SS316    | 350BAR       | 90°             |

| Product number | Connection | Material | Max Pressure | Max Temperature |
|----------------|------------|----------|--------------|-----------------|
| 200 070 700    | 3/8"F      | SS304    | 350BAR       | 90°             |
| 200 070 705    | 3/8"M      | SS304    | 350BAR       | 90°             |
| 200 070 710    | 1/2"F      | SS304    | 350BAR       | 90°             |
| 200 070 715    | 1/2"M      | SS304    | 350BAR       | 90°             |
| 200 070 800    | 3/8"F      | SS316    | 350BAR       | 90°             |
| 200 070 805    | 3/8"M      | SS316    | 350BAR       | 90°             |
| 200 070 810    | 1/2"F      | SS316    | 350BAR       | 90°             |
| 200 070 815    | 1/2"M      | SS316    | 350BAR       | 90°             |

| Accessories |                         |  |  |  |
|-------------|-------------------------|--|--|--|
| 200 070 149 | Rubber Protection Cover |  |  |  |

| Product number | Connection | Material | Max Pressure | Max Temperature |
|----------------|------------|----------|--------------|-----------------|
| 200 070 923    | 1/2"F      | SS304    | 250BAR       | 90°             |

SNAP TITE COUPLER

- Female part for Snap Tite models, only available in SS304 with a 1/2"F connection



TR SERIES PLUG

- Male part for TEMA style quick couplings
- Available in 1/4", 3/8" and 1/2" with male or female thread
- Comes in SS304, SS316 or Chrome Plated Brass



TR SERIES COUPLER

- Female part for TEMA style quick couplings
- Available in 1/4", 3/8" and 1/2" with male or female thread
- Comes in SS304, SS316 or Chrome Plated Brass
- Blue rubber protector available



| Product number | Connection | Material | Max Pressure | Max Temperature |
|----------------|------------|----------|--------------|-----------------|
| 200 070 910    | 1/2"F      | SS304    | 350BAR       | 90°             |

| Product number | Connection | Material          | Max Pressure | Max Temperature |
|----------------|------------|-------------------|--------------|-----------------|
| 200 070 121    | 1/4"F      | SS304             | 250BAR       | 90°             |
| 200 070 122    | 3/8"F      | SS304             | 250BAR       | 90°             |
| 200 070 123    | 1/2"F      | SS304             | 250BAR       | 90°             |
| 200 070 124    | 1/4"M      | SS304             | 250BAR       | 90°             |
| 200 070 221    | 1/4"F      | SS316             | 250BAR       | 90°             |
| 200 070 222    | 1/4"M      | SS316             | 250BAR       | 90°             |
| 200 070 223    | 3/8"F      | SS316             | 250BAR       | 90°             |
| 200 070 224    | 3/8"M      | SS316             | 250BAR       | 90°             |
| 200 070 225    | 1/2"F      | SS316             | 250BAR       | 90°             |
| 200 070 226    | 1/2"M      | SS316             | 250BAR       | 90°             |
| 200 070 422    | 3/8"F      | Zinc Coated Steel | 250BAR       | 90°             |
| 200 070 423    | 1/2"F      | Zinc Coated Steel | 250BAR       | 90°             |

| Product number | Connection | Material            | Max Pressure | Max Temperature |
|----------------|------------|---------------------|--------------|-----------------|
| 200 070 100    | 3/8"F      | SS304               | 350BAR       | 90°             |
| 200 070 110    | 1/2"F      | SS304               | 350BAR       | 90°             |
| 200 070 140    | 1/4"M      | SS304               | 350BAR       | 90°             |
| 200 070 150    | 3/8"M      | SS304               | 350BAR       | 90°             |
| 200 070 160    | 1/2"M      | SS304               | 350BAR       | 90°             |
| 200 070 200    | 3/8"F      | SS316               | 350BAR       | 90°             |
| 200 070 205    | 3/8"M      | SS316               | 350BAR       | 90°             |
| 200 070 210    | 1/2"F      | SS316               | 350BAR       | 90°             |
| 200 070 215    | 1/2"M      | SS316               | 350BAR       | 90°             |
| 200 070 400    | 3/8"F      | Chrome Plated Brass | 350BAR       | 90°             |
| 200 070 410    | 1/2"F      | Chrome Plated Brass | 350BAR       | 90°             |

| Accessories |                         |
|-------------|-------------------------|
| 200 070 148 | Rubber Protection Cover |

# ***CEILING BOOMS***

WAVE BOOMS

- 360° smooth rotation
- Polished stainless steel arm with stainless steel bearings inside
- Inlet at the side or the center of the mounting plate
- Fitted with a tension relief spring and swivel at the end
- Clean and classic appearance



WAVE & FLEX BOOMS

- 360° smooth rotation
- Polished stainless steel arm with stainless steel bearings inside
- Inlet at the side or the center of the mounting plate
- Two tension relief springs and a swivel at the end
- Clean and classic appearance



SHEET BOOMS HOSE

- 360° smooth rotation
- Polished stainless steel arm with stainless steel bearings inside
- Fitted with a hose inside
- Comes with a tension relieve spring and a swivel at the end
- Clean and classic appearance
- Also available as double boom



SHEET BOOMS PIPE

- 360° smooth rotation
- Polished stainless steel arm with stainless steel bearings inside
- Fitted with a stainless steel pipe
- Clean and classic appearance
- Also available as double boom



| Product number | Length | Inlet | Outlet |
|----------------|--------|-------|--------|
| 300 021 164    | 1450mm | 1/4"F | 1/4"M  |
| 300 021 165    | 1550mm | 1/4"F | 1/4"M  |
| 300 021 166    | 1750mm | 1/4"F | 1/4"M  |

| Accessories |            |
|-------------|------------|
| 300 021 047 | Wall Mount |

| Product number | Length | Inlet | Outlet |
|----------------|--------|-------|--------|
| 300 021 169    | 1450mm | 1/4"F | 1/4"M  |
| 300 021 167    | 1550mm | 1/4"F | 1/4"M  |
| 300 021 168    | 1750mm | 1/4"F | 1/4"M  |

| Accessories |            |
|-------------|------------|
| 300 021 047 | Wall Mount |

| Product number | Length | Length 2 | Inlet | Outlet |
|----------------|--------|----------|-------|--------|
| 300 021 140    | 1600mm |          | 1/4"F | 1/4"M  |
| 300 021 142    | 1750mm |          | 1/4"F | 1/4"M  |
| 300 021 144    | 1600mm | 1750mm   | 1/4"F | 1/4"M  |
| 300 021 149    | 2000mm |          | 1/4"F | 1/4"M  |

| Accessories |            |
|-------------|------------|
| 300 021 047 | Wall Mount |

| Product number | Length | Length 2 | Inlet | Outlet |
|----------------|--------|----------|-------|--------|
| 300 021 141    | 1600mm |          | 1/4"F | 1/4"M  |
| 300 021 143    | 1750mm |          | 1/4"F | 1/4"M  |
| 300 021 146    | 1600mm | 1750mm   | 1/4"F | 1/4"M  |
| 300 021 148    | 2000mm |          | 1/4"F | 1/4"M  |

| Accessories |            |
|-------------|------------|
| 300 021 047 | Wall Mount |

CEILING BOOMS FLEX

- 360° smooth rotation
- Polished stainless steel arm with stainless steel bearings inside
- Inlet at the side or the center of the mounting plate
- Two tension relief springs and a swivel at the end
- Clean and classic appearance



90° DOUBLE CEILING BOOM SWIVELS

300 090 260 SERIE

- Special swivel for double booms
- Completely stainless steel
- Suitable for high pressure



LANCE HOLDERS

300 021 200 SERIE

- Stainless steel lance holders with polished finish
- Convenient 60 angle
- Protective cover with wide opening for easy accessibility
- Hose connection at the bottom



| Product number | Length     | Length 2 | Inlet | Outlet |
|----------------|------------|----------|-------|--------|
| 300 021 156    | 1750mm     |          | 1/4"F | 1/4"M  |
| 300 021 155    | 1600mm     | 1750mm   | 1/4"F | 1/4"M  |
| Accessories    |            |          |       |        |
| 300 021 047    | Wall Mount |          |       |        |

| Product number | Inlet  | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|--------|--------|--------------|---------|-----------------|
| 300 090 260    | 50mm"F | 1/4"F  | 250BAR       | 150     | 90°             |

| Product number | Length | Spring | Hose Connection                             |
|----------------|--------|--------|---------------------------------------------|
| 300 021 200    | 700mm  | Yes    | 1/4"F                                       |
| 300 021 210    | 700mm  | No     | 1/4"F                                       |
| 300 021 310    | 700mm  | No     | Suitable for central vacuum cleaner systems |

***SWIVELS***



180° CHROME PLATED BRASS SWIVELS

300 180 130 SERIE

- Dual ball bearing
- Chrome plated brass housing for corrosion resistance
- Stainless steel internal parts
- 300 180 139 has a 9mm troughput



90° CHROME PLATED BRASS SWIVELS

300 090 130 SERIE

- Sliding bearing
- Chrome plated brass housing for corrosion resistance
- Stainless steel internal parts



180° COMPACT STAINLESS STEEL SWIVELS

300 180 670 SERIE

- Single ball bearing, plus sliding bearing
- Stainless steel housing and internal parts



90° STAINLESS STEEL SWIVELS

300 090 330 SERIE

- Sliding bearing
- Stainless steel housing and internal parts



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 131    | 1/4"F | 1/4"M  | 300BAR       | 40      | 120°            |
| 300 180 132    | 3/8"F | 3/8"M  | 300BAR       | 40      | 120°            |
| 300 180 133    | 1/4"F | 3/8"M  | 300BAR       | 40      | 120°            |
| 300 180 134    | 3/8"F | 1/4"M  | 300BAR       | 40      | 120°            |
| 300 180 135    | 1/4"F | 1/4"F  | 300BAR       | 40      | 120°            |
| 300 180 136    | 3/8"F | 3/8"F  | 300BAR       | 40      | 120°            |
| 300 180 137    | 1/4"F | 3/8"F  | 300BAR       | 40      | 120°            |
| 300 180 139    | 3/8"F | 3/8"M  | 300BAR       | 40      | 120°            |
| 300 180 144    | 1/4"F | 14mm M | 300BAR       | 40      | 120°            |
| 300 180 145    | 1/4"F | 16mm M | 300BAR       | 40      | 120°            |
| 300 180 146    | 1/4"F | 18mm M | 300BAR       | 40      | 120°            |
| 300 180 147    | 1/4"F | 22mm M | 300BAR       | 40      | 120°            |
| 300 180 148    | 3/8"F | 18mm M | 300BAR       | 40      | 120°            |

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 132    | 1/4"M | 1/4"F  | 150BAR       | 40      | 90°             |
| 300 090 133    | 3/8"M | 3/8"F  | 150BAR       | 40      | 90°             |
| 300 090 134    | 3/8"M | 1/4"F  | 150BAR       | 40      | 90°             |
| 300 090 135    | 1/4"M | 3/8"F  | 150BAR       | 40      | 90°             |
| 300 090 137*   | 1/4"M | 1/4"F  | 150BAR       | 40      | 90°             |

\* With snapping

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 671    | 1/4"F | 1/4"M  | 300BAR       | 40      | 120°            |
| 300 180 672    | 3/8"F | 3/8"M  | 300BAR       | 40      | 120°            |
| 300 180 673    | 1/4"F | 3/8"M  | 300BAR       | 40      | 120°            |
| 300 180 674    | 3/8"F | 1/4"M  | 300BAR       | 40      | 120°            |

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 330    | 1/4"M | 1/4"F  | 200BAR       | 40      | 120°            |
| 300 090 331    | 3/8"M | 3/8"F  | 200BAR       | 40      | 120°            |
| 300 090 332    | 3/8"M | 1/4"F  | 200BAR       | 40      | 120°            |
| 300 090 333    | 1/4"M | 3/8"F  | 200BAR       | 40      | 120°            |



180° STAINLESS STEEL SWIVELS

300 180 530 SERIE

- Dual ball bearing
- Stainless steel housing and internal parts



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 531    | 1/4"F | 1/4"M  | 500BAR       | 40      | 120°            |
| 300 180 532    | 3/8"F | 3/8"M  | 500BAR       | 40      | 120°            |
| 300 180 533    | 1/4"F | 3/8"M  | 500BAR       | 40      | 120°            |
| 300 180 534    | 3/8"F | 1/4"M  | 500BAR       | 40      | 120°            |
| 300 180 535    | 1/4"F | 1/4"F  | 500BAR       | 40      | 120°            |
| 300 180 536    | 3/8"F | 3/8"F  | 500BAR       | 40      | 120°            |

180° STAINLESS STEEL SWIVELS

300 090 540 SERIE

- Quadruple ball bearings
- Stainless steel housing and internal parts
- Easy rotation by high pressures



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 543    | 1/2"F | 1/2"M  | 500BAR       | 150     | 90°             |
| 300 180 544    | 1/2"F | 1/2"F  | 500BAR       | 150     | 90°             |

180° STAINLESS STEEL SWIVELS

300 180 501 SERIE

- Sliding Bearing
- Completely stainless steel
- Economy Swivel



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 501    | 3/8"F | 3/8"M  | 250BAR       | 40      | 120°            |

180° STAINLESS STEEL SWIVELS

300 180 010 SERIE

- Sliding Bearing
- Completely stainless steel
- Economy Swivel



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 010    | 1/2"F | 1/2"M  | 200BAR       | 40      | 120°            |



180° FULL FLOW SWIVELS

300 180 680 SERIE

- Single ball bearing, plus sliding bearing
- Stainless steel housing and internal parts
- Real throughput



90° FULL FLOW SWIVELS

300 090 680 SERIE

- Single ball bearing, plus sliding bearing
- Stainless steel housing and internal parts
- Real throughput



180° HIGH SPEED SWIVELS

300 180 340 SERIE

- Quadruple ball bearings
- Chrome plated brass housing
- Stainless Steel internal parts
- Up to 2700 RPM



90° HIGH SPEED SWIVELS

300 090 340 SERIE

- Quadruple ball bearings
- Chrome plated brass housing
- Stainless Steel internal parts
- Up to 2700 RPM



| Product number | Inlet   | Outlet  | Max Pressure | Max RPM | Max Temperature |
|----------------|---------|---------|--------------|---------|-----------------|
| 300 180 682    | 3/8"F   | 3/8"M   | 250BAR       | 30      | 120°            |
| 300 180 683    | 1/2"F   | 1/2"M   | 250BAR       | 30      | 120°            |
| 300 180 684    | 3/4"F   | 3/4"M   | 250BAR       | 30      | 120°            |
| 300 180 685    | 1"F     | 1"M     | 250BAR       | 30      | 120°            |
| 300 180 686    | 1 1/2"F | 1 1/2"F | 350BAR       | 30      | 120°            |
| 300 180 687    | 2"F     | 2"F     | 350BAR       | 30      | 120°            |

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 682    | 3/8"F | 3/8"M  | 250BAR       | 30      | 120°            |
| 300 090 683    | 1/2"F | 1/2"M  | 250BAR       | 30      | 120°            |
| 300 090 684    | 3/4"F | 3/4"M  | 250BAR       | 30      | 120°            |
| 300 090 685    | 1"F   | 1"M    | 250BAR       | 30      | 120°            |
| 300 090 690    | 3/8"F | 3/8"F  | 250BAR       | 30      | 120°            |
| 300 090 691    | 3/8"F | 1/4"F  | 250BAR       | 30      | 120°            |
| 300 090 692    | 1/2"F | 1/2"F  | 250BAR       | 30      | 120°            |
| 300 090 693    | 3/4"F | 3/4"F  | 250BAR       | 30      | 120°            |
| 300 090 694    | 1"F   | 1"F    | 250BAR       | 30      | 120°            |

| Product number | Inlet | Outlet | Flange | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------|--------------|---------|-----------------|
| 300 180 341    | 3/8"F | 3/8"M  | Yes    | 250BAR       | 2700    | 120°            |
| 300 180 342    | 3/8"F | 3/8"M  | No     | 250BAR       | 2700    | 120°            |

| Product number | Inlet | Outlet | Flange | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------|--------------|---------|-----------------|
| 300 090 341    | 1/4"F | 3/8"M  | Yes    | 250BAR       | 2700    | 120°            |
| 300 090 342    | 3/8"F | 3/8"M  | No     | 250BAR       | 2700    | 120°            |
| 300 090 343    | 3/8"F | 3/8"M  | Yes    | 250BAR       | 2700    | 120°            |

90° STAINLESS STEEL SWIVELS

300 090 344 SERIE

- Sliding bearing system
- Stainless steel housing and internal parts
- Robust model suitable for high pressure conditions



90° HEAVY DUTY SWIVELS

300 090 188 SERIE

- Quadruple ball bearings
- Stainless steel housing and internal parts
- Robust model suitable for heavy duty applications



90° FROST SWIVELS

300 090 181 SERIE

- Dual ball bearing system
- Stainless steel housing and internal parts
- Specially designed for use on ceiling booms in cold weather conditions



90° STAINLESS STEEL SWIVELS

300 090 630 SERIE

- Dual bearing system
- Completely stainless steel
- Available in 2 different lengths



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 344    | 1/2"M | 1/2"F  | 350BAR       | 40      | 120°            |
| 300 090 345    | 3/8"M | 1/2"F  | 350BAR       | 40      | 120°            |
| 300 090 346    | 1/2"M | 3/8"F  | 350BAR       | 40      | 120°            |
| 300 090 347    | 3/8"M | 3/8"F  | 350BAR       | 40      | 120°            |
| 300 090 448    | 1/2"F | 1/2"F  | 350BAR       | 40      | 120°            |
| 300 090 449    | 3/8"F | 3/8"F  | 350BAR       | 40      | 120°            |
| 300 090 450    | 3/8"F | 1/2"F  | 350BAR       | 40      | 120°            |

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 188    | 3/8"F | 3/8"M  | 500BAR       | 150     | 120°            |
| 300 090 189    | 3/8"F | 3/8"F  | 500BAR       | 150     | 120°            |
| 300 090 190    | 1/2"F | 1/2"M  | 500BAR       | 150     | 120°            |
| 300 090 191    | 1/2"F | 1/2"F  | 500BAR       | 150     | 120°            |
| 300 090 192    | 1/2"F | 3/8"F  | 500BAR       | 150     | 120°            |
| 300 090 195    | 3/4"F | 3/4"M  | 500BAR       | 150     | 120°            |
| 300 090 196    | 3/4"F | 3/4"F  | 500BAR       | 150     | 120°            |
| 300 090 199    | 1"F   | 1"M    | 500BAR       | 150     | 120°            |
| 300 090 200    | 1"F   | 1"F    | 500BAR       | 150     | 120°            |

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 181    | 1/4"M | 1/4"F  | 350BAR       | 40      | 120°            |

| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 090 631    | 3/8"M | 3/8"F  | 350BAR       | 150     | 120°            |
| 300 090 632    | 3/8"M | 3/8"F  | 350BAR       | 150     | 120°            |

180° HIGH SPEED SWIVELS

300 180 400 SERIE

- Quadruple ball bearings
- Stainless Steel housing and internal parts
- Tungsten seal
- Up to 2000 RPM



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 400    | 3/8"F | 3/8"M  | 350BAR       | 2000    | 120°            |

180° HIGH SPEED SWIVELS ECO

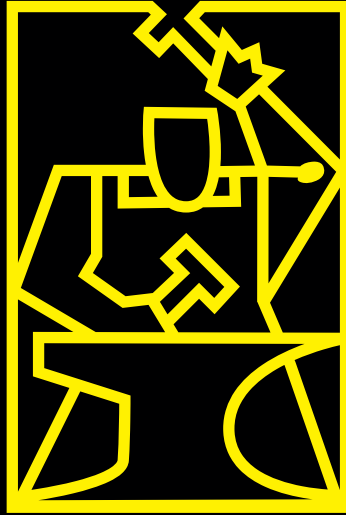
300 180 300 SERIE

- Quadruple ball bearings
- Chrome plated brass housing
- Stainless Steel internal parts
- Tungsten seal



| Product number | Inlet | Outlet | Max Pressure | Max RPM | Max Temperature |
|----------------|-------|--------|--------------|---------|-----------------|
| 300 180 300    | 3/8"F | 3/8"M  | 150BAR       | 2000    | 90°             |





**KOTHAR™**