

HIGH-PRESSURE COOLING-LUBRICANT- SUPPLY SYSTEMS IN STAINLESS STEEL



Type0

1/8" System
inside Ø 3,2 mm

Type1

1/4" System
inside Ø 5,8 mm

Type2

1/2" System
inside Ø 11 mm

Type3

3/4" System
inside Ø 19 mm

INDIVIDUAL & FLEXIBLE

Hirt
LINE®



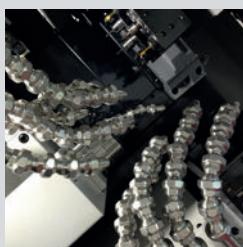
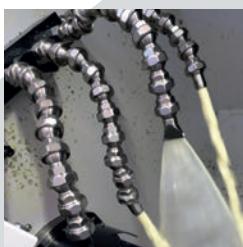
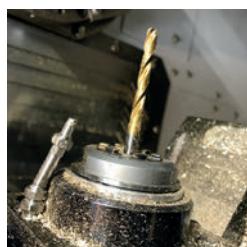
The Original Modular Hose System | Hirt-Line®

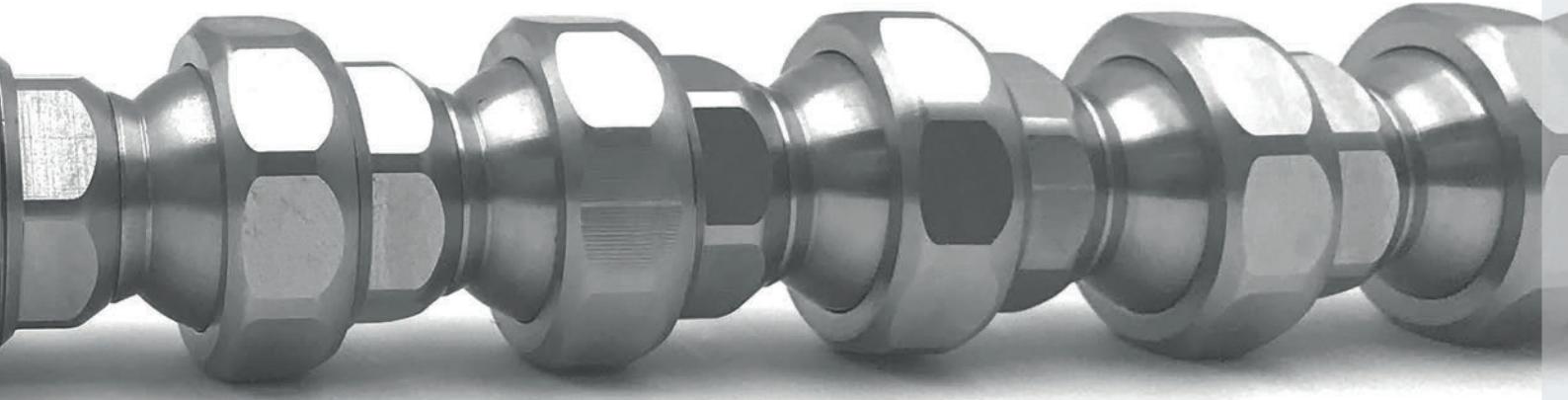
Our joint hose system can be extended as required, is stainless and offers a long service life. The individual parts are precision-manufactured and insensitive to heat and chemical substances. Can be easily screwed together, adjusted, lengthened and shortened by hand. Neither coolant pressure nor machine vibrations can change the position.

Pressure resistant over 100 bar. Can be used on machine tools and production plants, mainly on turning machines, milling machines, grinding machines, sawing machines and filling plants. Suitable for emulsions, cooling and cutting oils, chemical substances and for air cooling.

Properties:

- Jet precisely adjustable and fixable (screwable)
- Resistant to high temperatures, chemical substances, chips, pressure and vibrations
- Corrosion-resistant material 1.4305 V2A (on request in V4A)
- Wear resistant
- Pressure stable above 100 bar
- Application range -30°C to +60°C
- Optional ES-System up to +300°C (available on request)
- 4 system sizes, all among each other compatible
- Long service life
- Can be used directly on the tool (tool connections)
- Versatile in combination
- Sophisticated and effective assortment
- Applicable in the food industry
- Connection elements for each machine
- Basic sets in every system





Longer tool lifespans and less machine downtime for manufacturing systems

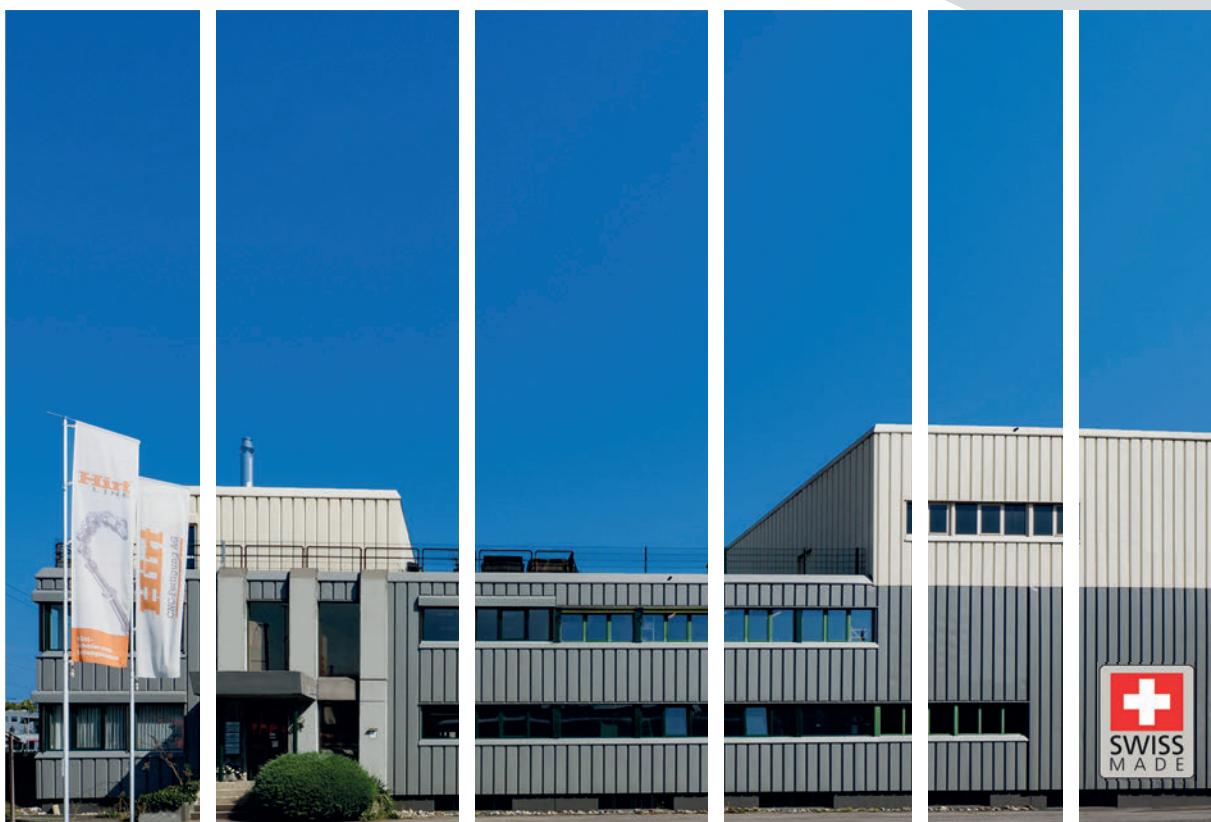
Although plastic joint hoses are very flexible coolant lines, they only offer the required operational reliability to a limited extent. Standard joint hoses are often misaligned by vibrations or chips and the coolant no longer gets to where it is

needed. Machine downtimes and even tool damage are expensive and can be avoided. Increase your productivity with our manufacturer-independent Hirt-Line® coolant and lubricant line system for turning, milling and grinding machines.

MADE IN SWITZERLAND is the quality promise of Hirt-Line®

We are committed to this through our own flexible production and high quality standards. Whether series production of

standard products or custom-made special solutions - we are here for you!





4 System sizes

Type0 | 1/8" | passage Ø 3,2 mm | thread M8 x 0,75

Type1 | 1/4" | passage Ø 5,8 mm | thread M14 x 1,0

Type2 | 1/2" | passage Ø 11,0 mm | thread M24 x 1,0

Type3 | 3/4" | passage Ø 19,0 mm | thread M34 x 1,0

All compatible with each other!



Machine adapter

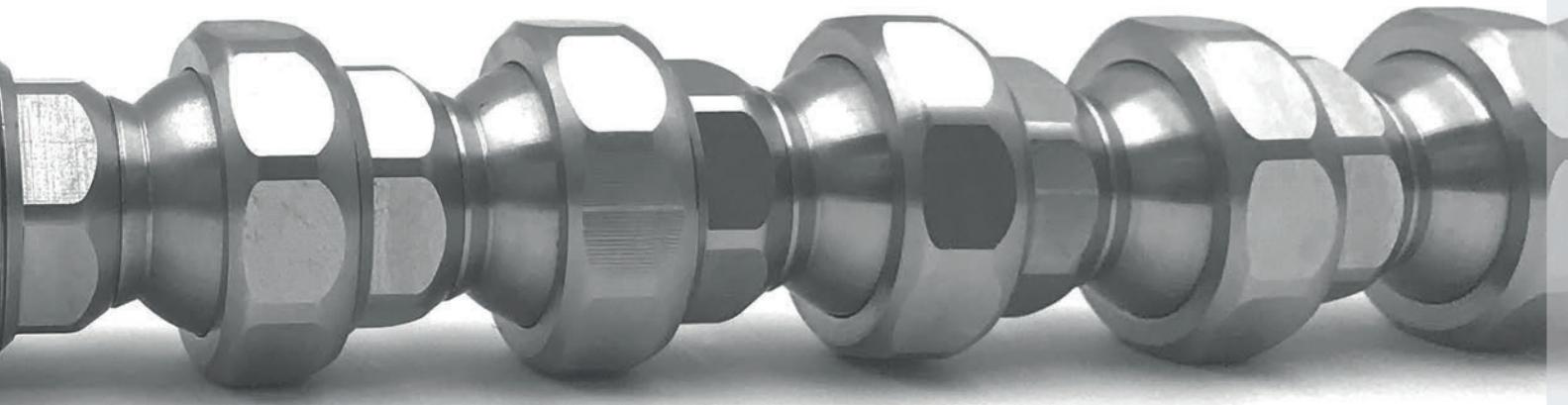
In addition to the standard pipe thread G1/8", G1/4", G3/8", G1/2", G3/4", G1" as well as metric threads M5 x 0,8 over M14 x 1,0 to M20 x 1,5, we also offer conical threads and ball head adapters with the dimensions of Ø10 mm, Ø12 mm, Ø14 mm, Ø15 mm, to various special adapters.

On request you will receive your special connection adapter!

Basic elements

3,2 mm, 5,8 mm, 11,0 mm and 19,0 mm inside diameter measure the basic elements of the Hirt-Line system. The variety of different standard lengths of 9.3 mm over 100 mm up to 1000 mm make a precise setting up and fixing the cooling jet to the desired place possible. And so make for an effective and easy customization. Other lengths on custom production possible.





Elbows

The Hirt-Line® system offers many different elbow elements in every system size, whether type 0, type 1, type 2, or type 3 we have the right e.g. elbows 90°, multiple connections, T- and Y-pieces. Due to the large selection, we ensure the greatest possible flexibility of the system. Special fittings on request!



Nozzles

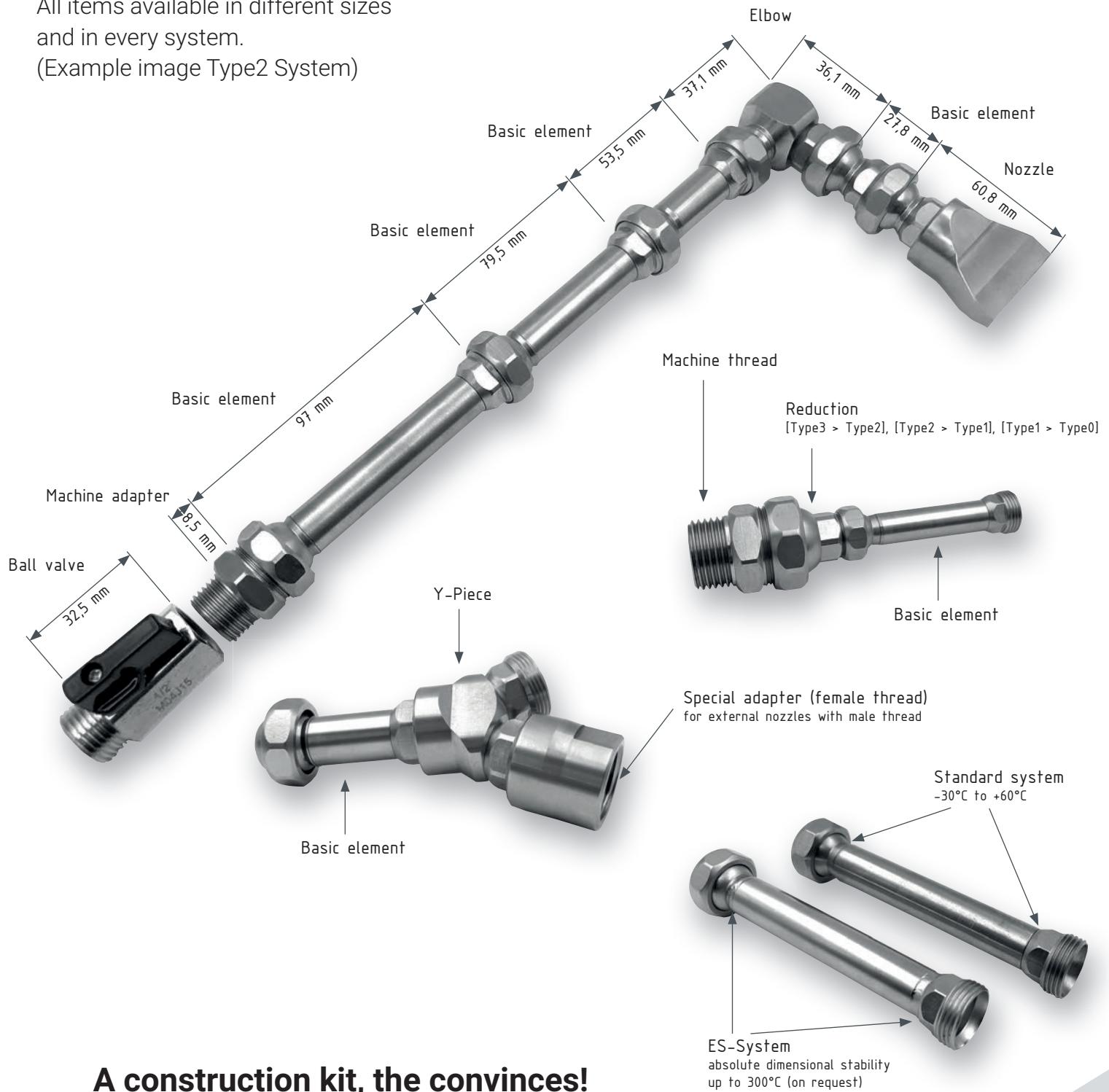
The nozzles made of a material 1.4305 (V2A) are insensitive to heat and are available from Ø0.5 mm, over Ø10.0 mm up to Ø19.0 mm passage. Our numerous flat nozzles with different slot widths leave nothing to be desired; ideally suited for washing or cooling as well as flat and cylindrical grinding. There are also some special nozzles, either with several holes or mini-slots. Optimized for perfect cooling!

Accessories

The Hirt-Line® accessories consist of our own products such as quick couplings, knurled nuts or locking caps, plus reductions to combine the individual systems with each other. We also offer suitable external articles, e.g. ball valves and open-end wrenches. With this range you ensure an optimal and stable coolant supply for the future, especially for individual applications.



All items available in different sizes
and in every system.
(Example image Type2 System)

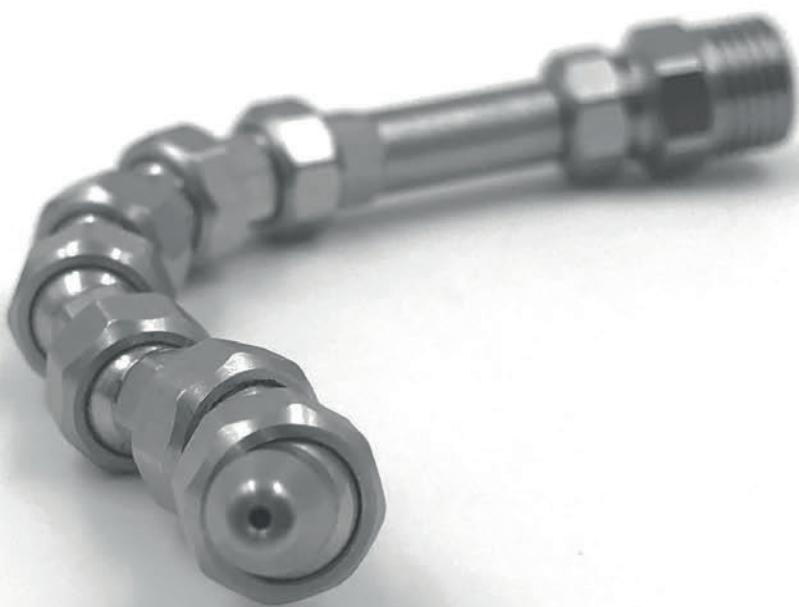


A construction kit, the convinces!

The Hirt-Line® system can be the basis for successful production. The basis for the system in turn are its individual components. Hirt-Line® makes all components and their data available here individually in order to give customers the opportunity to go their own way in the design and implementation of their systems. Hirt-Line® has compiled all its elements in a catalogue for quick and easy ordering.

PRODUCT OVERVIEW

Type0 [1/8"]

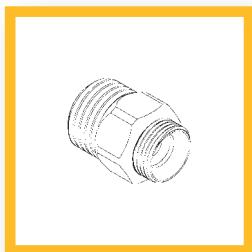
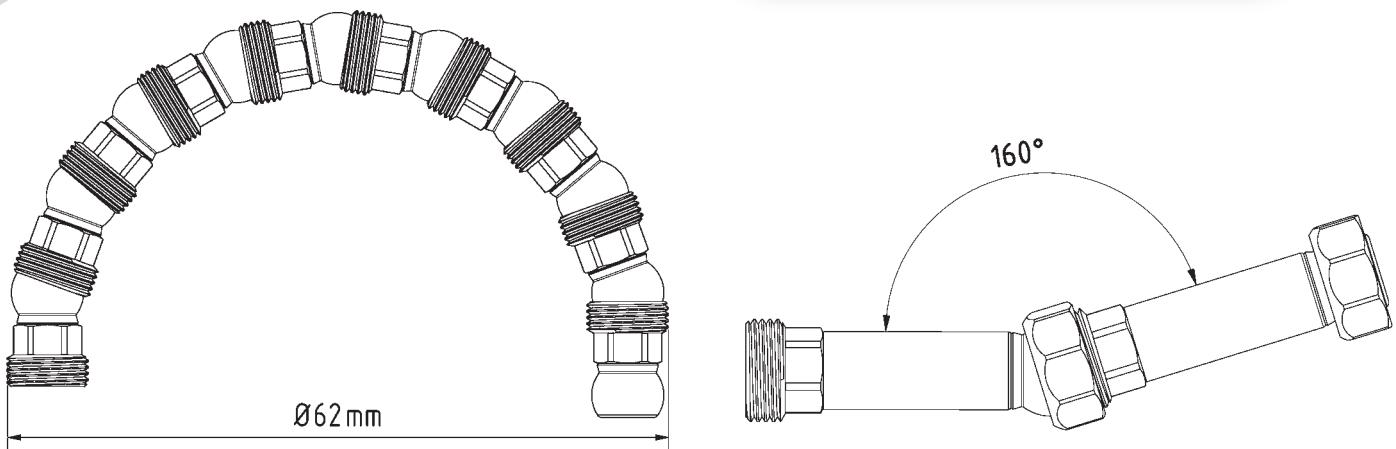


The latest Type0 system is quick to install, easy to set up for the right tool and includes a variety of suitable nozzles from Ø0.5 mm to Ø3.0 mm up to nozzles with several outlets. A wide range of machine adapters from M5x0.8 over M10x1.5 up to ball adapters with Ø10.0 mm and of course also different basic and angle elements provide the user with the necessary flexibility and variability in the processing of their products.

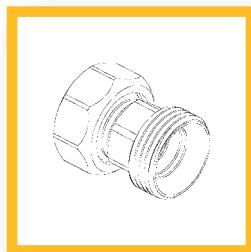
Type0 [1/8" System]

TECHNICAL SPECIFICATIONS:

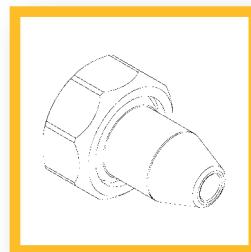
- Size Type0 (1/8")
- Passage Ø3,2 mm
- Pressure resistant up to 80 bar
- Application range -30°C to +60°C
- Optional ES-System up to +300°C (available on request)
- Thread (Elements) M8x0,75
- Material 1.4305 (V2A)



MACHINE ADAPTER



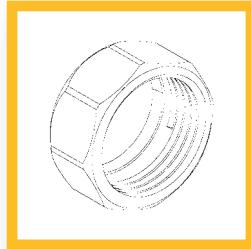
BASIC ELEMENTS



NOZZLES



ELBOWS



ACCESSORIES

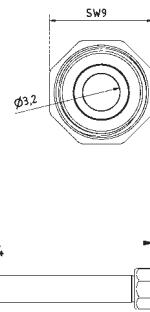
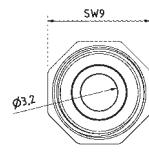
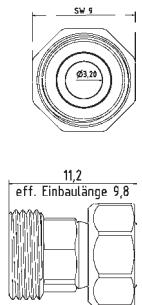


BASIC SET Type0

Type0 [1/8" System]

Hirt
LINE®

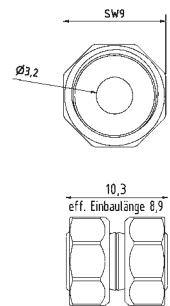
Grundelemente | Basic Elements



0-GE

I = 11,2 mm effektiv l = 9,8 mm

I = 11,2 mm effective l = 9,8 mm



0-GE-25

I = 25,7 mm effektiv l = 24,1 mm

I = 25,7 mm effective l = 24,1 mm

0-GE-100

I = 100 mm effektiv l = 98,4 mm

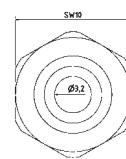
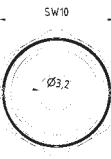
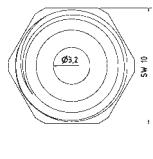
I = 100 mm effective l = 98,4 mm

0-GE-DK

I=10,3 mm effektiv l=8,9 mm Doppelkugel

I=10,3 mm effective l=8,9 mm double ball

Maschinen-/Düsenaadapter | Machine-/Nozzle Adapter



0-AD-18

Adapterstück G 1/8"

adaptor piece thread 1/8"

0-AD-18-PT

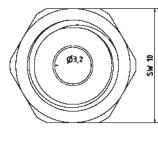
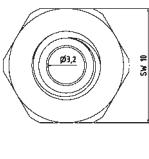
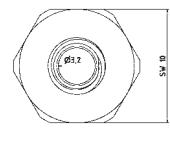
Adapterstück G 1/8" PT (Withworth-Gewinde)

adaptor piece thread 1/8" PT (NPT thread)

0-AD-K10

Adapterstück Kugel Ø10

adaptor piece ball Ø10



0-AD-M5

Adapterstück M 5 x 0,8

adaptor piece M 5 x 0,8 metric thread

0-AD-M6

Adapterstück M 6 x 1

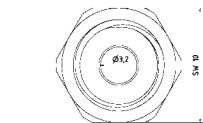
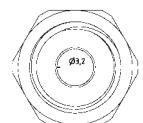
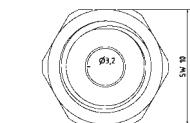
adaptor piece M 6 x 1 metric thread

0-AD-81

Adapterstück M 8 x 1

adaptor piece M 8 x 1 metric thread

Maschinen-/Düsenadapter | Machine-/Nozzle Adapter



0-AD-M8

Adapterstück M 8 x 1,25
adaptor piece M 8 x 1,25 metric thread

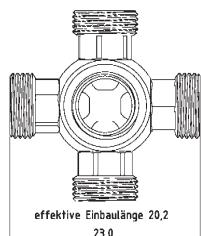
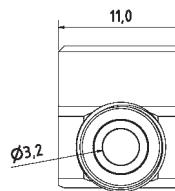
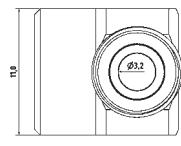
0-AD-M101

Adapterstück M 10 x 1
adaptor piece M 10 x 1 metric thread

0-AD-M10

Adapterstück M 10 x 1,5
adaptor piece M 10 x 1,5 metric thread

Winkelemente | Elbows



0-WV-1

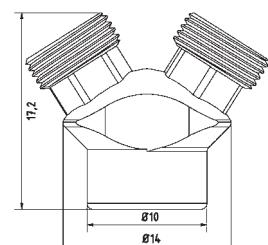
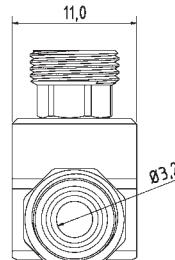
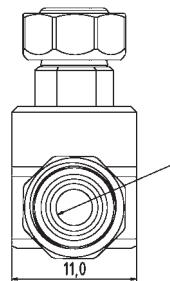
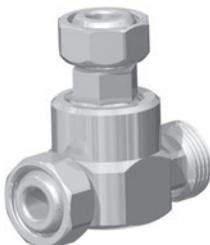
Winkelverschraubung
elbow piece fixed

0-WV-2

T-Stück
T-piece fixed

0-WV-4

Mehracherverteiler
Manifold



0-WV-R

Verschlussstück zu Ringdüse
locking tappet to ring nozzle

0-WV-R-2K

T-Stück für Ring und Düse
T-piece for ring and nozzle

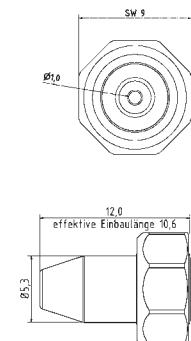
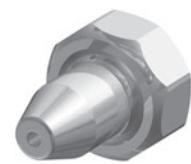
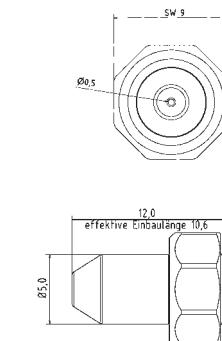
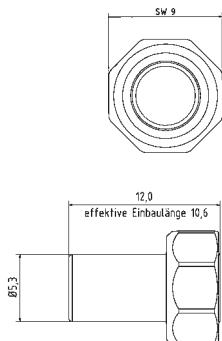
0-YV

Y-Stück
Y-piece fixed

Type0 [1/8" System]

Hint
LINE®

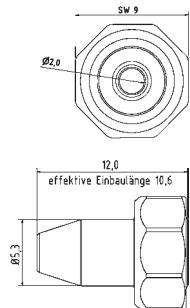
Düsen | Nozzles



O-DU-0

Düse ohne Bohrung

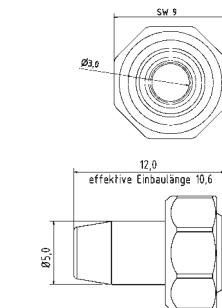
nozzle straight without drilling



O-DU-05

Düse gerade Bohrung Ø 0,5 mm

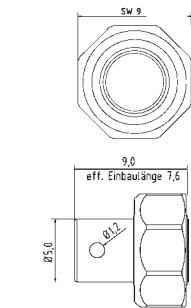
nozzle straight Ø 0,5 mm



O-DU-10

Düse gerade Bohrung Ø 1,0 mm

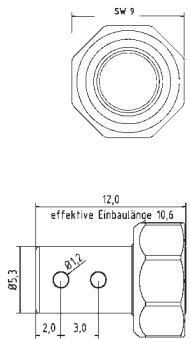
nozzle straight Ø 1,0 mm



O-DU-20

Düse gerade Bohrung Ø 2,0 mm

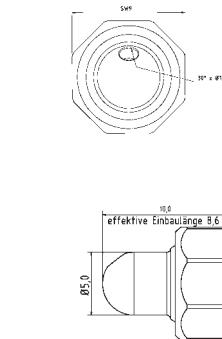
nozzle straight Ø 2,0 mm



O-DU-30

Düse gerade Bohrung Ø 3,0 mm

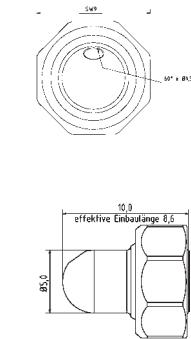
nozzle straight Ø 3,0 mm



O-DU-90-1

Düse 90° Bohrung 1 x Ø 1,2 mm

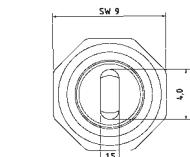
nozzle 90° drill hole 1 x Ø 1,2 mm



O-DU-90-2

Düse 90° Bohrung 2 x Ø 1,2 mm

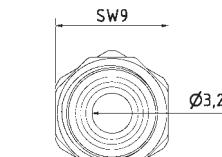
nozzle 90° drill hole 2 x Ø 1,2 mm



O-DU-30-1.5

Düse 30° Bohrung Ø 1,5 mm

nozzle 30° drill hole Ø 1,5 mm



O-DU-60-1.5

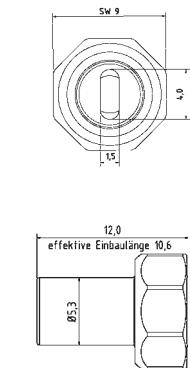
Düse 60° Bohrung Ø 1,5 mm

nozzle 60° drill hole Ø 1,5 mm

O-DU-415

Düse mit Schlitz 4 x 1,5 mm

nozzle straight with slit 4 x 1,5 mm

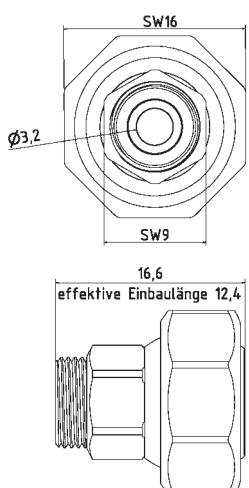


O-DU-R

Ringdüsen Element Bohrung Ø 1,0 mm

ring nozzle element drill hole Ø 1,0 mm

Zubehör | Accessories



RE-1-0

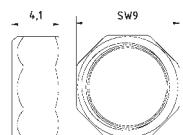
Reduktion Typ 1 auf Typ 0
reduction Type 1 to Type 0

SW-6

Schlüssel aus Stahl SW 6
open end wrench SW 6

SW-9

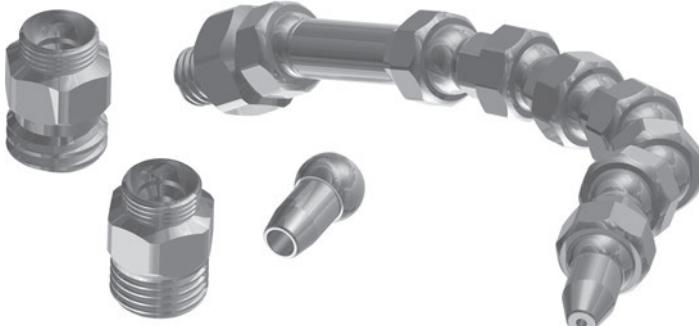
Schlüssel aus Stahl SW 9
open end wrench SW 9



0-MU

Mutter Standard
screw nut (default)

Grundset | Basic Set



0-GS

Grundset Typ0 1/8" Zoll System L = 110 mm
basic set Type0 1/8" system l = 110 mm

6 x 0-GE, 1 x 0-GE-25, 1 x 0-AD-18, 1 x 0-AD-M6, 1 x 0-AD-101, 1 x 0-DU-10
1 x 0-DU-30, 1 x SW-6, 1 x SW-9

0-GS-R

Ringdüsen Set Ø = 60mm
(1 x 0-WV-R, 20 x 0-DU-R)

ring nozzle set Ø = 60mm
(1 x 0-WV-R, 20 x 0-DU-R)

PRODUCT OVERVIEW

Type1 [1/4"]

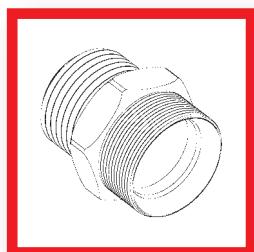
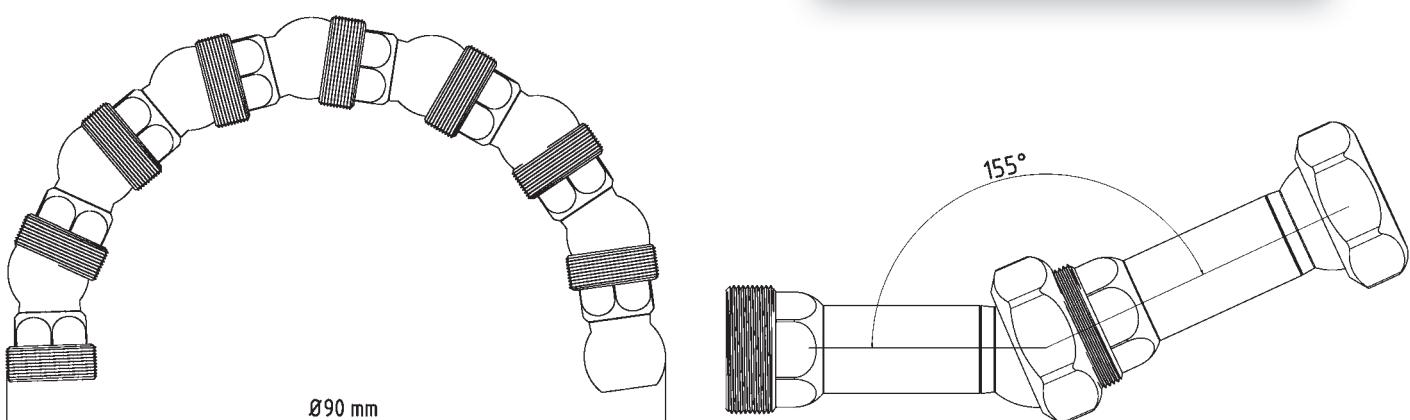


The Type 1 system for all machine applications in the range up to $\pm 170\text{l/min}$. With round nozzles sizes from $\varnothing 1.6\text{ mm}$ to $\varnothing 5.0\text{ mm}$ and a variety of flat nozzles and multi-bore nozzles, this system is a standard for every machine. The wide range of machine adapters from M8x1.0, M14x1.5 and G3/8" to various ball adapters with $\varnothing 14.0\text{ mm}$ and of course also basic and angled elements guarantee a smooth installation.

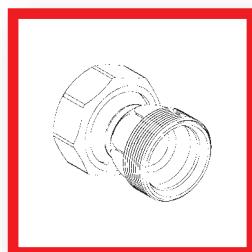
Type1 [1/4" System]

TECHNICAL SPECIFICATIONS:

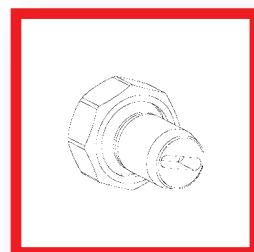
- Size Type1 (1/4")
- Passage Ø5,8 mm
- Pressure resistant over 100 bar
- Application range -30°C to +60°C
- Optional ES-System up to +300°C (available on request)
- Thread (Elements) M14x1
- Material 1.4305 (V2A)



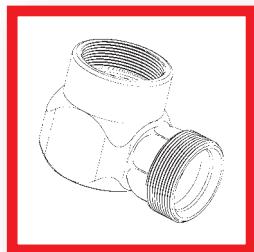
MACHINE ADAPTER



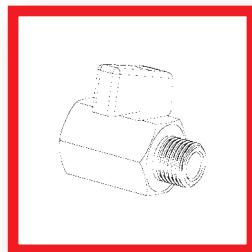
BASIC ELEMENTS



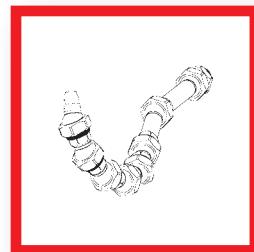
NOZZLES



ELBOWS



ACCESSORIES

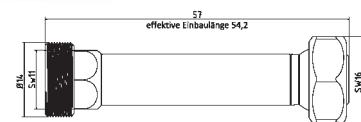
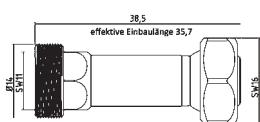
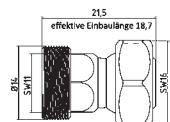
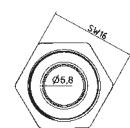
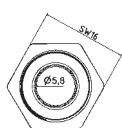
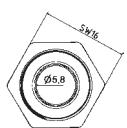


BASIC SET Type1

Type1 [1/4" System]

Hint
LINE

Grundelemente | Basic Elements



1-GE

I = 21,5 mm effektiv l = 18,7 mm

I = 21,5 mm effective l = 18,7 mm

1-GE-2

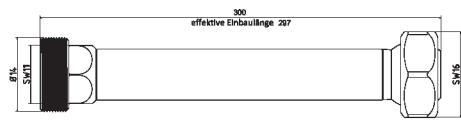
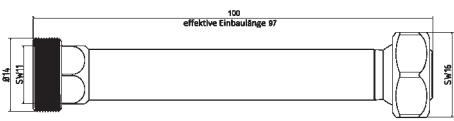
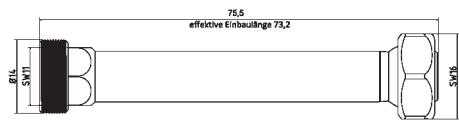
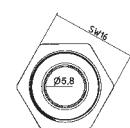
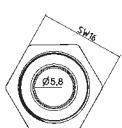
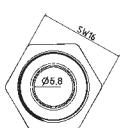
I = 38,5 mm effektiv l = 35,7 mm

I = 38,5 mm effective l = 35,7 mm

1-GE-3

I = 57 mm effektiv l = 54,2 mm

I = 57 mm effective l = 54,2 mm



1-GE-4

I = 75,5 mm effektiv l = 73,2 mm

I = 75,5 mm effective l = 73,2 mm

1-GE-100

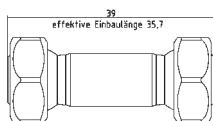
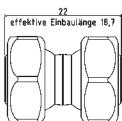
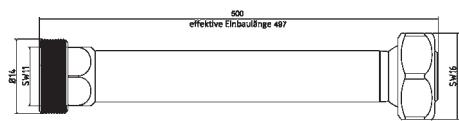
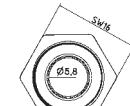
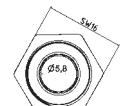
I = 100 mm effektiv l = 97 mm

I = 100 mm effective l = 97 mm

1-GE-300

I = 300 mm effektiv l = 297 mm

I = 300 mm effective l = 297 mm



1-GE-500

I = 500 mm effektiv l = 497 mm

I = 500 mm effective l = 497 mm

1-GE-DK

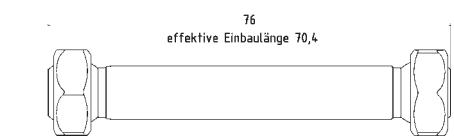
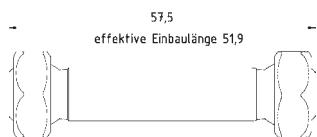
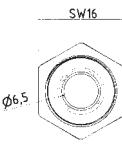
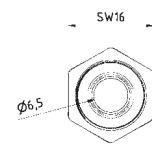
I = 22 mm effektiv l = 18,7 mm Doppelkugel

I = 22 mm effective l = 18,7 mm double ball

1-GE-2-DK

I = 39 mm effektiv l = 35,7 mm Doppelkugel

I = 39 mm effective l = 35,7 mm double ball



1-GE-3-DK

I = 57,5 mm effektiv l = 51,9 mm Doppelkugel

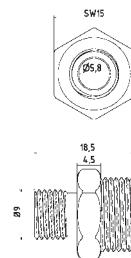
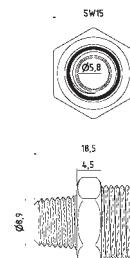
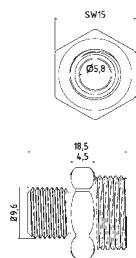
I = 57,5 mm effective l = 51,9 mm double ball

1-GE-4-DK

I = 76 mm effektiv l = 70,4 mm Doppelkugel

I = 76 mm effective l = 70,4 mm double ball

Maschinen-/Düsenadapter | Machine-/Nozzle Adapter



1-AD-18

Adapterstück G 1/8"

adaptor piece thread 1/8"

1-AD-18-PT

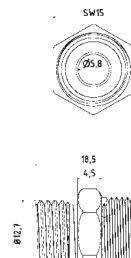
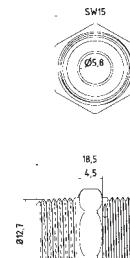
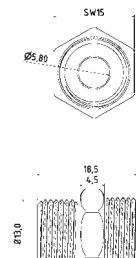
Adapterstück G 1/8" PT (Withworth-Gewinde)

adaptor piece thread 1/8" PT (NPT thread)

1-AD-18-U

Adapterstück G 1/8" U (Gewinde unterschnitten)

adaptor piece thread 1/8" U (Undercut thread)



1-AD-14

Adapterstück G 1/4"

adaptor piece thread 1/4"

1-AD-14-PT

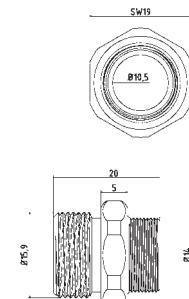
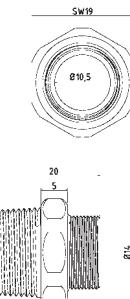
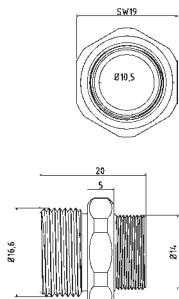
Adapterstück G 1/4" PT (Withworth-Gewinde)

adaptor piece thread 1/4" PT (NPT thread)

1-AD-14-U

Adapterstück G 1/4" U (Gewinde unterschnitten)

adaptor piece thread 1/4" U (Undercut thread)



1-AD-38

Adapterstück G 3/8"

adaptor piece thread 3/8"

1-AD-38-PT

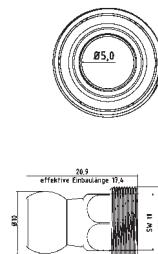
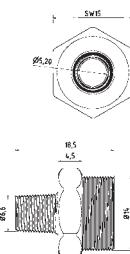
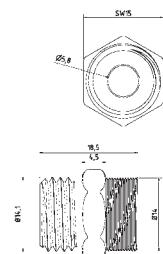
Adapterstück G 3/8" PT (Withworth-Gewinde)

adaptor piece thread 3/8" PT (NPT thread)

1-AD-38-U

Adapterstück G 3/8" U (Gewinde unterschnitten)

adaptor piece thread 3/8" U (Undercut thread)



1-AD-9-16-20UNF

Adapterstück G 9/16"

adaptor piece thread 9/16"

1-AD-1-16PT

Adapterstück G 1/16" PT (Withworth-Gewinden)

adaptor piece thread 1/16" PT (NPT thread)

1-AD-K10

Adapterstück Kugel Ø 10 (z.B. Traub)

adaptor piece ball Ø 10 mm (e.g. Traub)

Type1 [1/4" System]

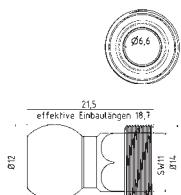
Hint
LINE

Maschinen-/Düsenaadapter | Machine-/Nozzle Adapter



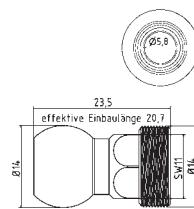
1-AD-K12

Adapterstück Kugel Ø 12 (z.B. MORI SEIKI)
adaptor piece ball Ø 12 mm (e.g. MORI SEIKI)



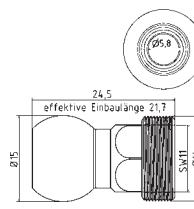
1-AD-K14

Adapterstück Kugel Ø 14 (z.B. Wenk)
adaptor piece ball Ø 14 mm (e.g. Wenk)



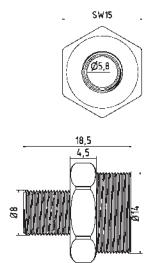
1-AD-K15

Adapterstück Kugel Ø 15 (z.B. Okuma)
adaptor piece ball Ø 15 mm (e.g. Okuma)



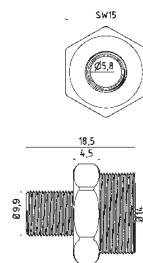
1-AD-81

Adapterstück M8 x 1
adaptor piece M8 x 1 metric thread



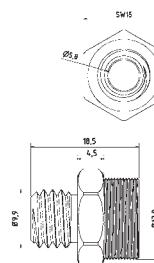
1-AD-101

Adapterstück M10 x 1
adaptor piece M10 x 1 metric thread



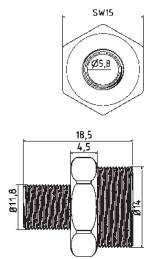
1-AD-101.5

Adapterstück M10 x 1,5
adaptor piece M10 x 1,5 metric thread



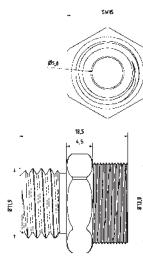
1-AD-121

Adapterstück M 12 x 1
adaptor piece M 12 x 1 metric thread



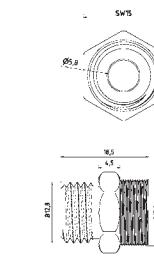
1-AD-121.5

Adapterstück M 12 x 1,5
adaptor piece M 12 x 1,5 metric thread



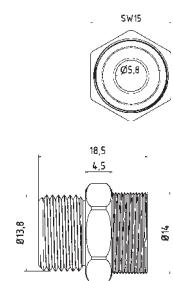
1-AD-131.5

Adapterstück M 13 x 1,5
adaptor piece M 13 x 1,5 metric thread



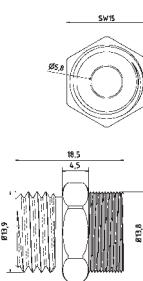
1-AD-141

Adapterstück M 14 x 1
adaptor piece M 14 x 1 metric thread



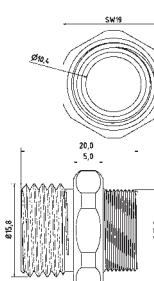
1-AD-141.5

Adapterstück M 14 x 1,5
adaptor piece M 14 x 1,5 metric thread



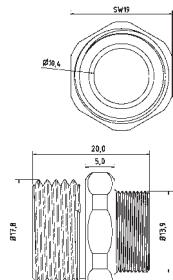
1-AD-161.5

Adapterstück M 16 x 1,5
adaptor piece M 16 x 1,5 metric thread



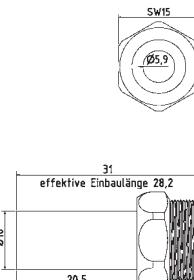
1-AD-181.5

Adapterstück M 18 x 1,5
adaptor piece M 18 x 1,5 metric thread



1-AD-10L

Adapterstück zu Hydraulik-Verschraubung 10 L
adaptor piece to hydraulic system 10 L



1-AD-8L

Adapterstück zu Hydraulik-Verschraubung 8 L
adaptor piece to hydraulic system 8 L



Maschinen-/Düsenaadapter | Machine-/Nozzle Adapter



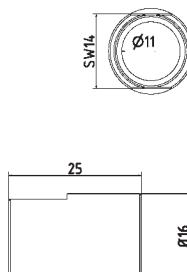
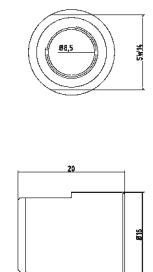
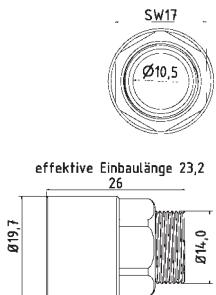
1-AD-I121-Typ1

Adapterstück M12 x 1 Innengewinde

auf Hirt-Line Typ1 Aussengewinde

adaptor piece M12 x 1 female thread

to Hirt-Line type1 male thread



1-AD-I161.5-Typ1

Adapterstück M16 x 1.5 Innengewinde auf Hirt-Line Typ1 Aussengewinde

adaptor piece M16 x 1.5 female thread to

Hirt-Line type1 male thread

1-AD-1GE-18

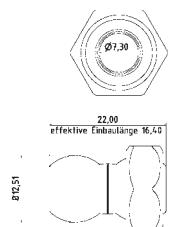
Adapterstück für Fremddüsen mit Außengewinde, IG 1-GE auf IG 1/8"

adapter piece for external nozzles with male thread, female 1-GE to female 1/8"

1-AD-1GE-14

Adapterstück für Fremddüsen mit Außengewinde, IG 1-GE auf IG 1/4"

adapter piece for external nozzles with male thread, female 1-GE to female 1/4"



1-AD-LL

Adapterstück Loc-Line Typ 1

adaptor piece Loc-Line Type 1

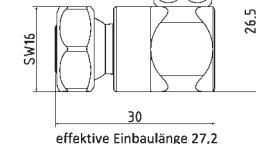
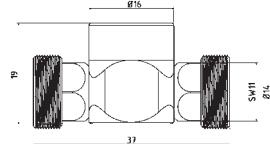
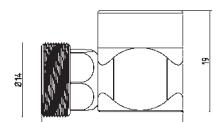
Winkelemente | Elbows



1-WV-1

Winkelverschraubung

elbow piece fixed



1-WV-2

T-Stück

T-piece fixed

1-WV-1K

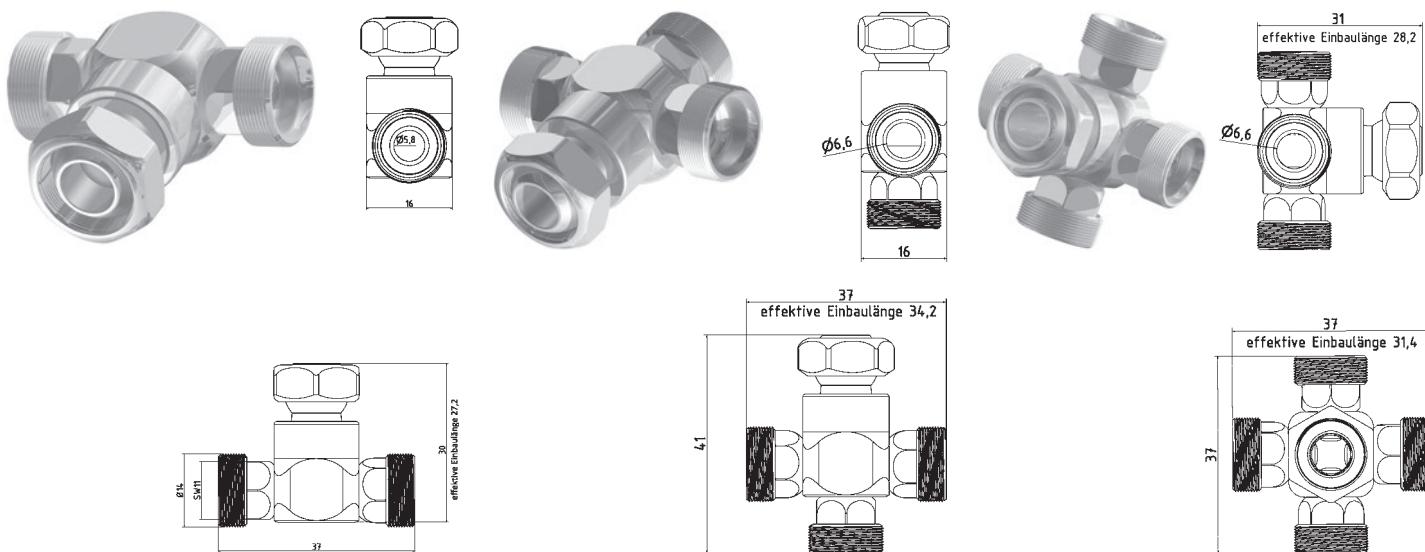
Winkelverschraubung mit Kugelstück

elbow piece moveable

Type1 [1/4" System]

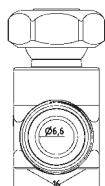
Hint
LINE

Winkelemente | Elbows



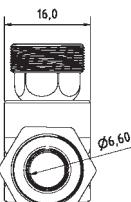
1-WV-2K

T-Stück mit Kugelstück
T-piece moveable



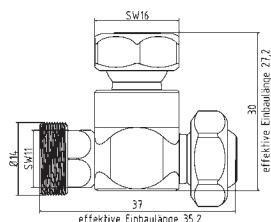
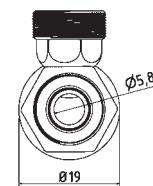
1-WV-3K

Kreuz-Stück mit Kugelstück
cross piece moveable



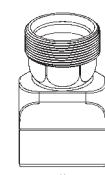
1-WV-4K

Stern-Stück mit Kugelstück
star piece moveable



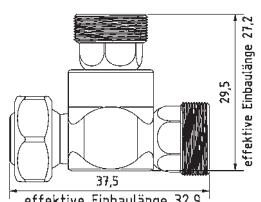
1-WV-R

Verschlussstück zu Ringdüse
locking tappet to ring nozzle



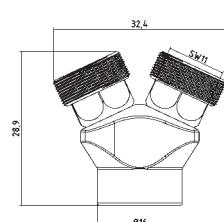
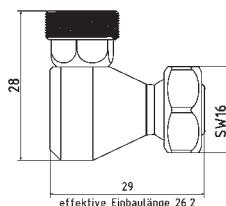
1-WV-R-2K

T-Stück für Ring und Düse
T-piece fo ring and nozzle



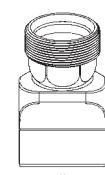
1-WI

Winkelstück für Leitungen
corner piece for pipelines

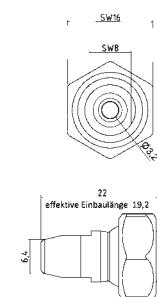
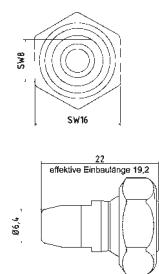


1-YV

Y-Stück 50°
Y-piece 50°



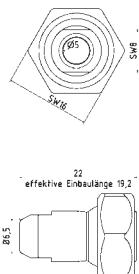
Düsen | Nozzles



1-DU-0

Düse ohne Bohrung

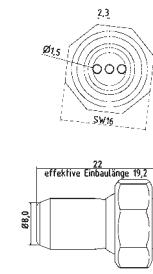
nozzle straight without drilling



1-DU-16

Düse gerade Bohrung Ø 1,6 mm

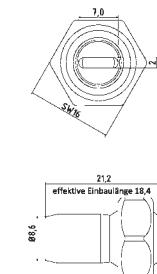
nozzle straight Ø 1,6 mm



1-DU-32

Düse gerade Bohrung Ø 3,2 mm

nozzle straight Ø 3,2 mm



1-DU-50

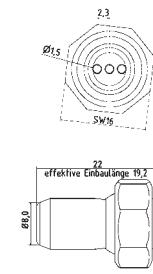
Düse gerade Bohrung Ø 5,0 mm

nozzle straight Ø 5,0 mm

1-DU-3-16

Düse gerade Bohrung 3 x Ø 1,6 mm

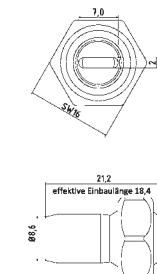
nozzle straight 3 x Ø 1,6 mm



1-DU-72

Düse mit Schlitz 7 x 2,0 mm

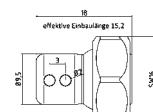
nozzle straight with slit 7 x 2,0 mm



1-DU-90-1

Düse 90° Bohrung 1 x Ø 2 mm

nozzle 90° drill hole 1 x Ø 2 mm



1-DU-90-2

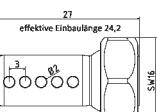
Düse 90° Bohrung 2 x Ø 2 mm

nozzle 90° drill hole 2 x Ø 2 mm

1-DU-90-5

Düse 90° Bohrung 5 x Ø 2 mm

nozzle 90° drill hole 5 x Ø 2 mm



1-DU-30

Düse 30° Bohrung Ø 3 mm



1-DU-30-EK

Düse 30° Bohrung Ø 3 mm extra kurz



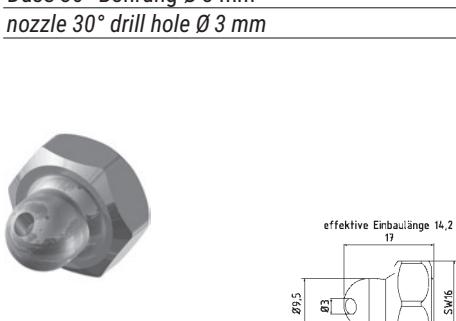
1-DU-60

Düse 60° Bohrung Ø 3 mm



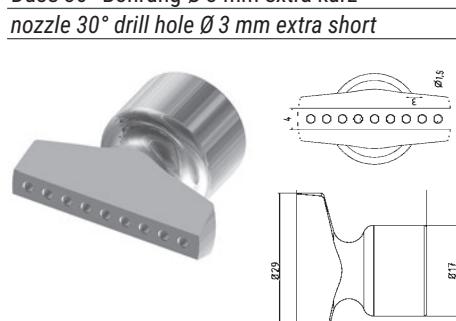
1-DU-60-EK

Düse 60° Bohrung Ø 3 mm extra kurz



1-DU-BL

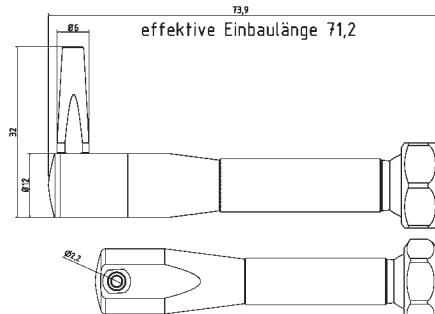
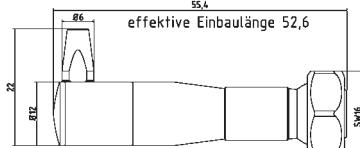
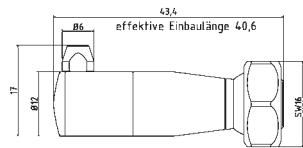
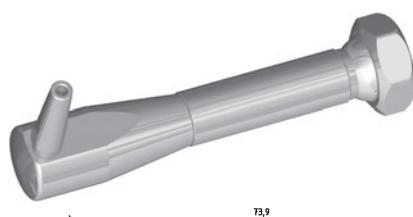
Düse Breit mit Bohrungen 9 x Ø 1,5 mm



Type1 [1/4" System]

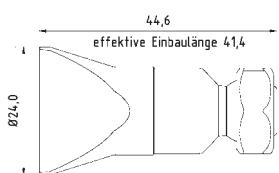
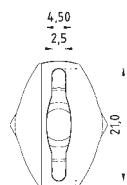
Hirt
LINE

Düsen | Nozzles



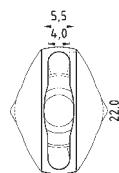
1-HA-DU

Halterung Düse klein l = 40 inkl. 3 Düsen
small nozzle holder l = 40 incl. 3 nozzles



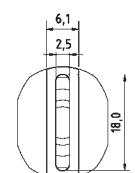
1-HA-DU-2

Halterung Düse klein l = 55 inkl. 3 Düsen
small nozzle holder l = 55 incl. 3 nozzles



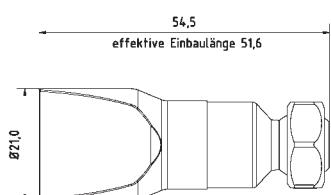
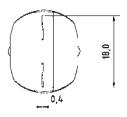
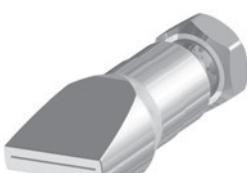
1-HA-DU-3

Halterung Düse klein l = 70 inkl. 3 Düsen
small nozzle holder l = 70 incl. 3 nozzles



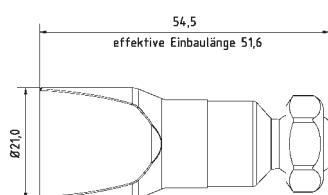
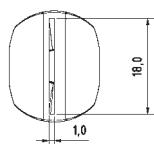
1-DU-SL-SS

Flachdüse Breit mit Schlitz 21 x 2,5 mm
Streustrahl
flat nozzle broadly with slit 21 x 2,5 mm
scattered beam



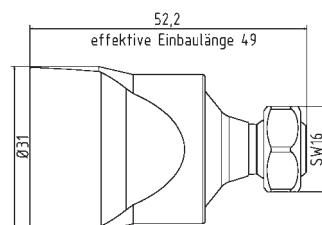
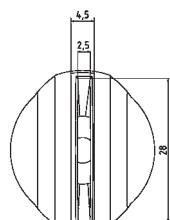
1-DU-SL-25

Flachdüse Breit mit Schlitz 22 x 4,0 mm
Streustrahl zum Schwimmen
flat nozzle broadly with slit 22 x 4,0 mm scattered beam



1-DU-SL-GS

Flachdüse Breit mit Schlitz 18 x 2,5 mm
gerader Strahl
flat nozzle broadly with slit 18 x 2,5 mm straight jet



1-DU-SL-25-GS-0.4

Flachdüse Breit mit Schlitz 18 x 0,4 mm
gerader Strahl
flat nozzle broadly with slit 18 x 0,4 mm straight jet

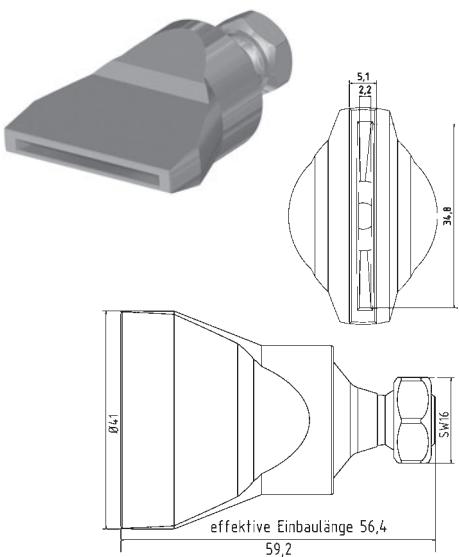
1-DU-SL-25-GS-1.0

Flachdüse Breit mit Schlitz 18 x 1,0 mm
gerader Strahl
flat nozzle broadly with slit 18 x 1,0 mm straight jet

1-DU-SL-31-GS

Flachdüse Breit mit Schlitz 28 x 2,5 mm
gerader Strahl
flat nozzle broadly with slit 28 x 2,5 mm straight jet

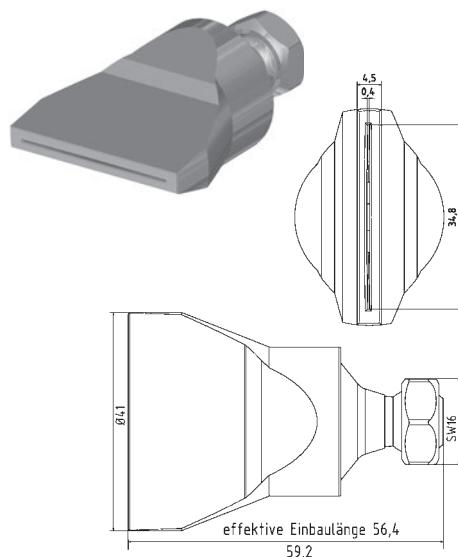
Düsen | Nozzles



1-DU-SL-50-GS

Flachdüse Schlitzbreite 35 x 2,2 mm
gerader Strahl

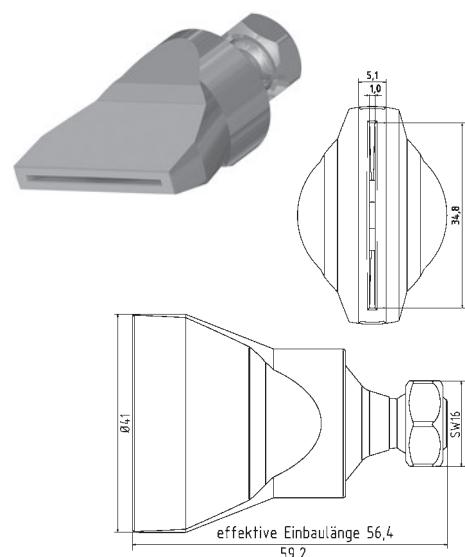
flat nozzle broadly with slit 35 x 2,2 mm
straight jet



1-DU-SL-50-GS-0.4

Flachdüse Schlitzbreite 35 x 0,4 mm
gerader Strahl

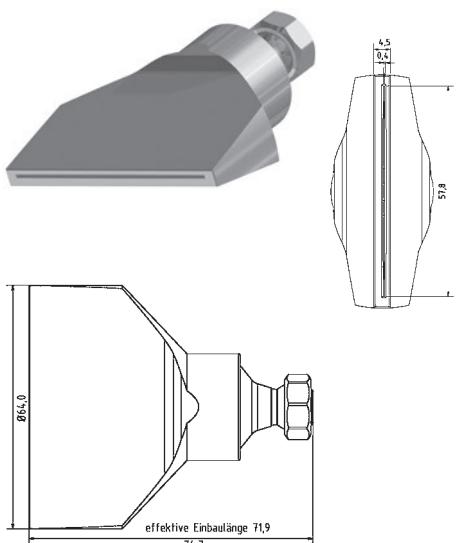
flat nozzle broadly with slit 35 x 0,4 mm
straight jet



1-DU-SL-50-GS-1.0

Flachdüse Schlitzbreite 35 x 1,0 mm
gerader Strahl

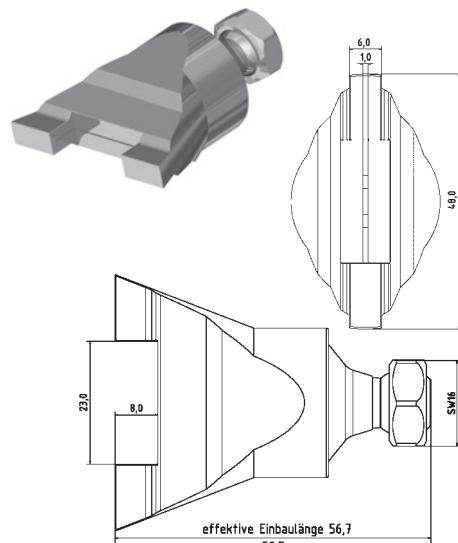
flat nozzle broadly with slit 35 x 1,0 mm
straight jet



1-DU-SL-65-GS-0.4

Flachdüse Schlitzbreite 58 x 0,4 mm
gerader Strahl

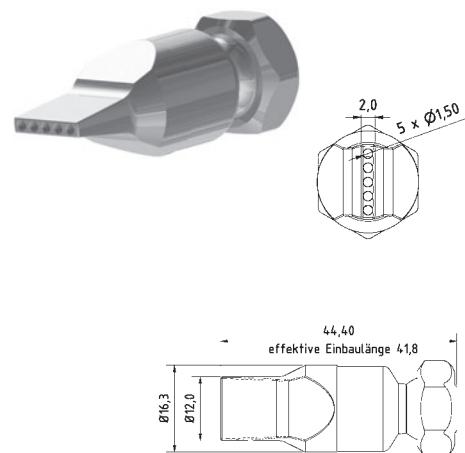
flat nozzle broadly with slit 58 x 0,4 mm
straight jet



1-DU-1912-SA

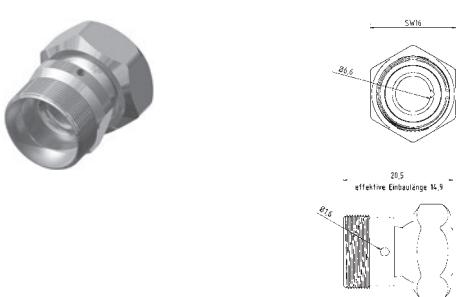
Flachdüse Schlitzbreite 23 mm
mit seitlicher Kühlung gerader Strahl

flat nozzle broadly with slit 23 mm
with lateral cooling straight jet



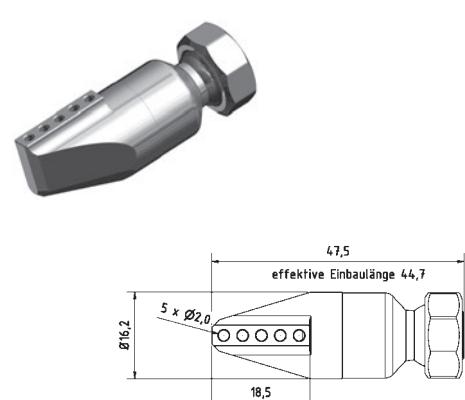
1-DU-LL-5-15

Düse gerade Bohrungen 5 x Ø 1,5 mm
nozzle straight drill hole 5 x Ø 1,5 mm



1-DU-R

Ringdüsen Element Bohrung Ø 1,6 mm
ring nozzle element drill hole Ø 1,6 mm



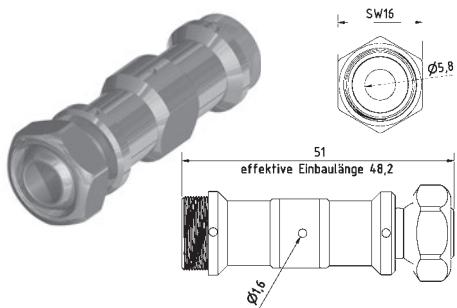
1-DU-LL-90-5-2

Düse 90° Bohrungen 5 x Ø 2 mm
nozzle 90° drill hole 5 x Ø 2 mm

Type1 [1/4" System]

Hirt
LINE

Düsen und Halterungen | Nozzles and Holder



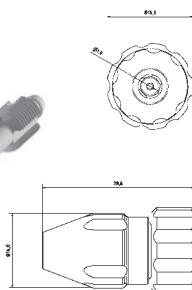
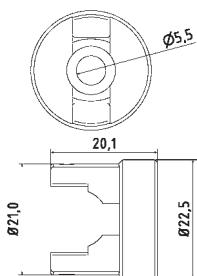
1-DU-EL3

Duschelement mit Bohrungen 3 x Ø 1,6 mm
shower element drillings 3 x Ø 1,6 mm



1-DU-ELH

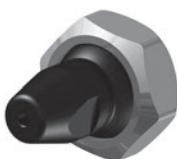
Halterung zu Duschelement (inkl. Feststellschrauben)
holder to shower element (incl. Screws)



1-DU-Mini

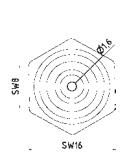
Düse Minimalmengenschmiersystem Set
für 2 mm, 2,5 mm und 3 mm Schlauch
nozzle minimum lubrication system set
for 2 mm, 2,5 mm and 3 mm pipe

Kunststoff-Düsen | Plastic Nozzles



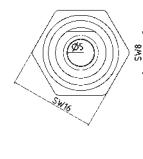
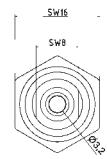
KU-1-DU-16

Kunststoff-Düse gerade Bohrung Ø 1,6 mm
plastic nozzle straight Ø 1,6 mm



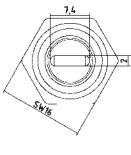
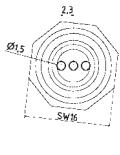
KU-1-DU-32

Kunststoff-Düse gerade Bohrung Ø 3,2 mm
plastic nozzle straight Ø 3,2 mm



KU-1-DU-50

Kunststoff-Düse gerade Bohrung Ø 5,0 mm
plastic nozzle straight Ø 5,0 mm



KU-1-DU-3-16

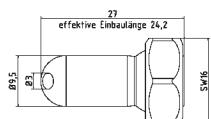
Kunststoff-Düse gerade Bohrung 3 x Ø 1,6 mm
plastic nozzle straight 3 x Ø 1,6 mm

KU-1-DU-72

Kunststoff-Düse mit Schlitz 7 x 2,0 mm
plastic nozzle straight with slit 7 x 2,0 mm

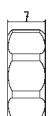
KU-1-DU-30

Kunststoff-Düse 30° Bohrung Ø 3 mm
plastic nozzle 30° drill hole Ø 3 mm



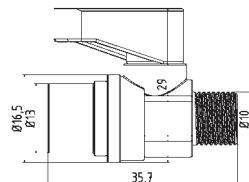
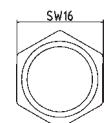
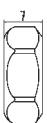
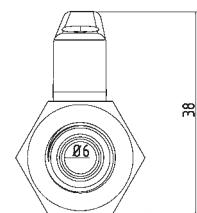
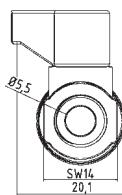
KU-1-DU-60

Kunststoff-Düse 60° Bohrung Ø 3 mm
plastic nozzle 60° drill hole Ø 3 mm



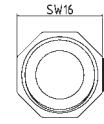
1-MU-HA

Mutter für Handverstellung
screw nut (hand feed)



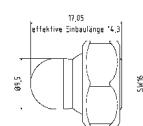
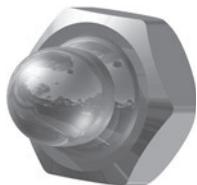
1-MU

Mutter Standard
screw nut (default)



KH-18

Mini-Kugelhahn G1/8" Messing Verchromt
mini ball valve thread 1/8" brass chrome-plated



1-VK

Verschlusskappe Typ 1
cap type 1



SW-11

Schlüssel aus Stahl SW11
open end wrench SW11

SW-16

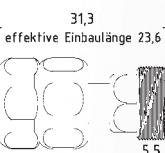
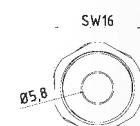
Schlüssel aus Stahl SW16
open end wrench SW16

KH-14

Mini-Kugelhahn G1/4" Messing Verchromt
mini ball valve thread 1/4" brass chrome-plated

KH-14-SS

Mini-Kugelhahn G1/4" Edelstahl
mini ball valve thread 1/4" stainless steel

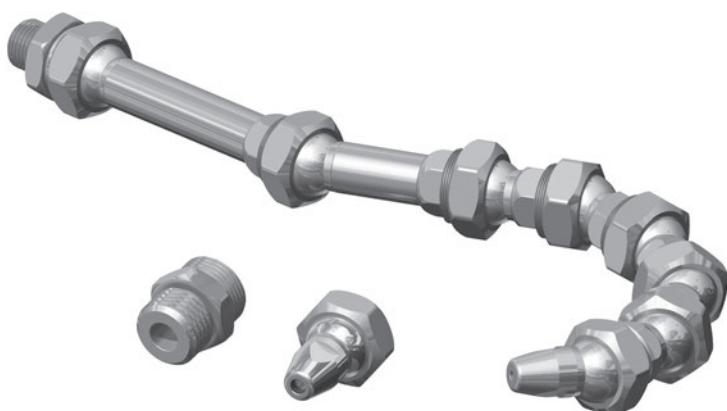


1-FP

Zwischenelement mit fester Position
(Schnellkupplung)

Intermediate element with fixed position
(quick coupling)

Grundset | Basic Set



1-GS

Grundset Typ1 1/4" System L = 220 mm
6 x 1-GE, 1 x 1-GE-2, 1 x 1-GE-3, 1 x 1-AD-18, 1 x 1-AD-14, 1 x 1-DU-16, 1 x 1-DU-32
basic set Type1 1/4" system l = 220 mm:
6 x 1-GE, 1 x 1-GE-2, 1 x 1-GE-3, 1 x 1-AD-18, 1 x 1-AD-14, 1 x 1-DU-16, 1 x 1-DU-32

1-GS-R

Ringdüsen Set (17 x 1-DU-R + 1 x 1-WV-R)
Ø = 80 mm erweiterbar
ring nozzle set (17 x 1-DU-R + 1 x 1-WV-R)
Ø = 80 mm expendable

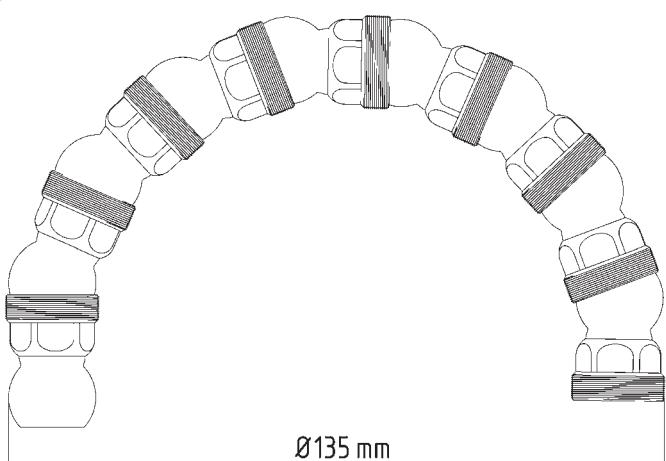
PRODUCT OVERVIEW

Type2 [1/2"]



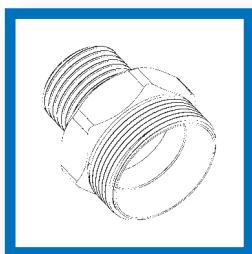
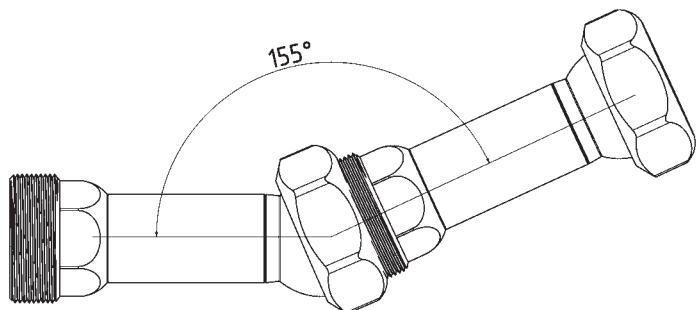
With the Type 2 system you can optimize your machine process by $\pm 12\%$. Take advantage of the wide range of nozzles and adapt the cooling to your needs. Whether flat nozzles, round nozzles or nozzles with several outlets, for grinding, turning, milling or air cooling, you will find the suitable elements here. The Type 2 basic elements and machine adapters ensure a round range, which offers you the security of optimizing tool wear and guarantee stable cooling.

Type2 [1/2" System]

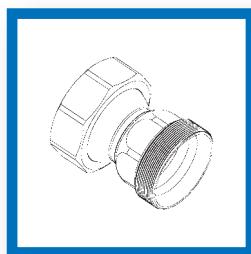


TECHNICAL SPECIFICATIONS:

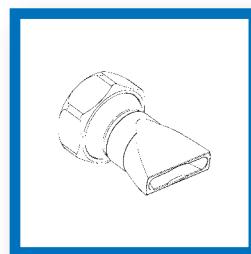
- Size Type2 (1/2")
- Passage Ø11,0 mm
- Pressure resistant over 100 bar
- Application range -30°C to +60°C
- Optional ES-System up to +300°C (available on request)
- Thread (Elements) M14x1
- Material 1.4305 (V2A)



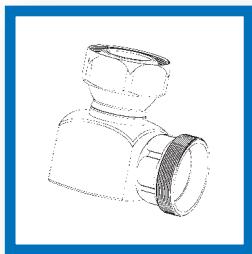
MACHINE ADAPTER



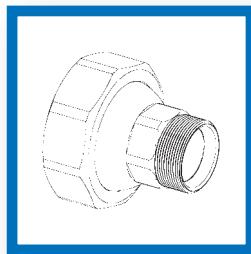
BASIC ELEMENTS



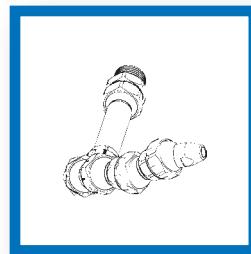
NOZZLES



ELBOWS



ACCESSORIES

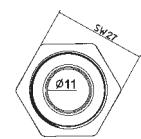
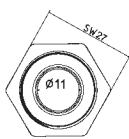
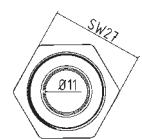


BASIC SET Type2

Type2 [1/2" System]

Hilt
LINE

Grundelemente | Basic Elements



2-GE

I = 32,7 mm effektiv l = 27,8 mm

I = 32,7 mm effective l = 27,8 mm

2-GE-2

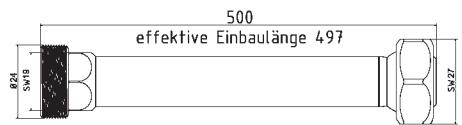
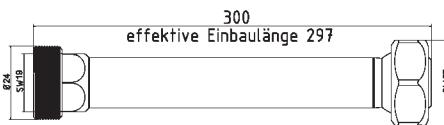
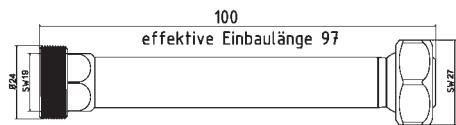
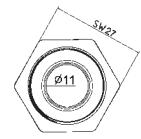
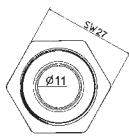
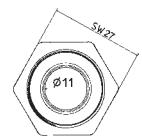
I = 58,4 mm effektiv l = 53,5 mm

I = 58,4 mm effective l = 53,5 mm

2-GE-3

I = 84,4 mm effektiv l = 79,5 mm

I = 84,4 mm effective l = 79,5 mm



2-GE-100

I = 100 mm effektiv l = 97 mm

I = 100 mm effective l = 97 mm

2-GE-300

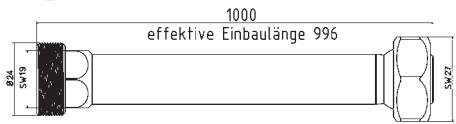
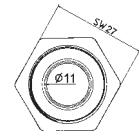
I = 300 mm effektiv l = 297 mm

I = 300 mm effective l = 297 mm

2-GE-500

I = 500 mm effektiv l = 497 mm

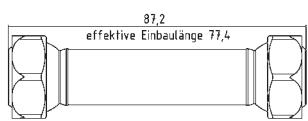
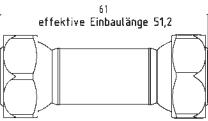
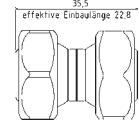
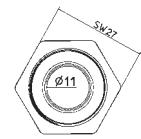
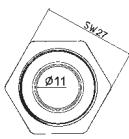
I = 500 mm effective l = 497 mm



2-GE-1000

I = 1000 mm effektiv l = 996 mm

I = 1000 mm effective l = 996 mm



2-GE-DK

I = 35,5 mm effektiv l = 22,8 mm Doppelkugel

I = 35,5 mm effective l = 22,8 mm double ball

2-GE-2-DK

I = 61 mm effektiv l = 51,2 mm Doppelkugel

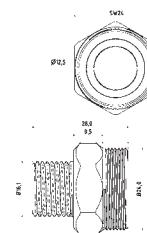
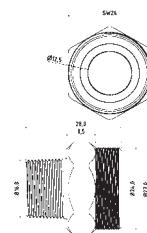
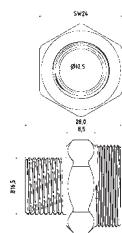
I = 61 mm effective l = 51,2 mm double ball

2-GE-3-DK

I = 87,2 mm effektiv l = 77,4 mm Doppelkugel

I = 87,2 mm effective l = 77,4 mm double ball

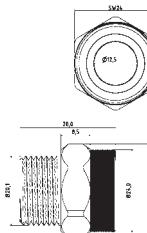
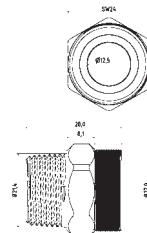
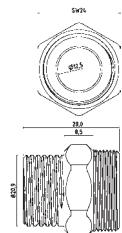
Maschinen-/Düsenadapter | Machine-/Nozzle Adapter



2-AD-38

Adapterstück G 3/8"

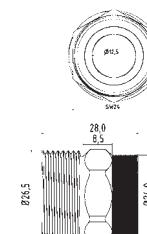
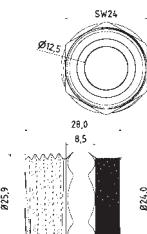
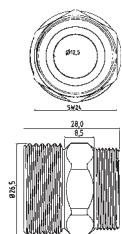
adaptor piece thread 3/8"



2-AD-12

Adapterstück G 1/2"

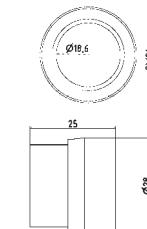
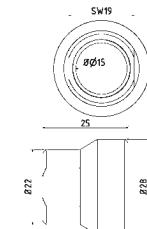
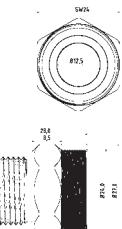
adaptor piece thread 1/2"



2-AD-34

Adapterstück G 3/4"

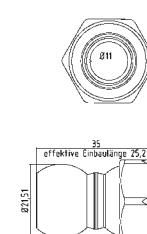
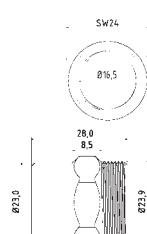
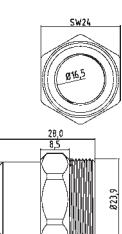
adaptor piece thread 3/4"



2-AD-201.5

Adapterstück M20 x 1.5"

adaptor piece thread M20 x 1.5"



2-AD-I161.5-Typ2

Adapterstück M16 x 1.5 Innengewinde auf
Hirt-Line Typ2 Aussengewinde

adaptor piece M16 x 1.5 female thread
to Hirt-Line type2 male thread

2-AD-I181.5-Typ2

Adapterstück M18 x 1.5 Innengewinde auf
Hirt-Line Typ2 Aussengewinde

adaptor piece M18 x 1.5 female thread
to Hirt-Line type2 male thread

2-AD-38-U

Adapterstück G 3/8" U (Gewinde unterschnitten)

adaptor piece thread 3/8" U (Undercut thread)

2-AD-12-U

Adapterstück G 1/2" U (Gewinde unterschnitten)

adaptor piece thread 1/2" U (Undercut thread)

2-AD-34-U

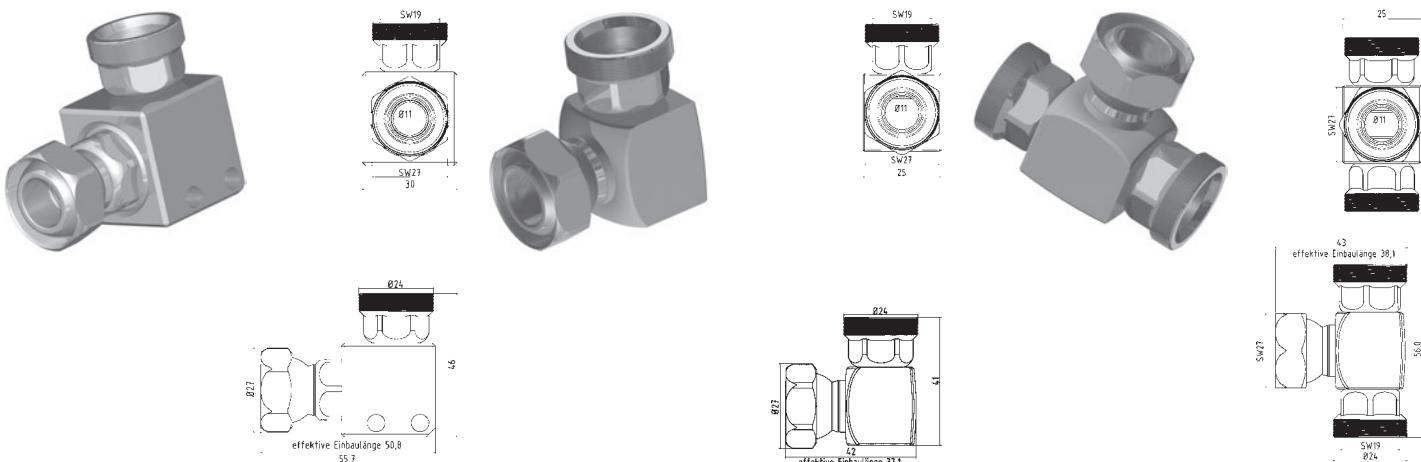
Adapterstück G 3/4" U (Gewinde unterschnitten)

adaptor piece thread 3/4" U (Undercut thread)

Type2 [1/2" System]

Hilt
LINE

Winkelemente | Elbows



2-WI

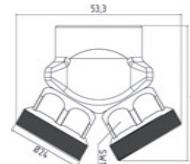
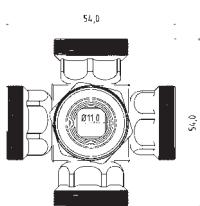
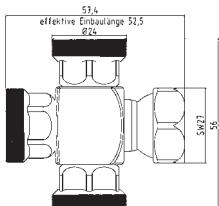
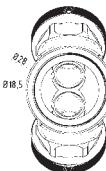
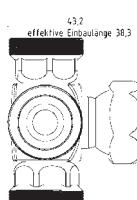
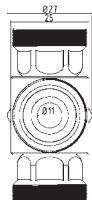
Winkelstück für Leitungen mit 2 Bohrungen
corner piece for pipelines with 2 bore hole

2-WV-1K

Winkelstück
elbow piece

2-WV-2K

T-Stück
T-piece



2-WV-3K

Kreuz-Stück
cross piece

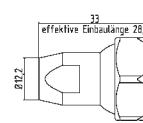
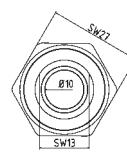
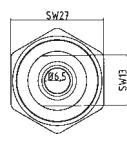
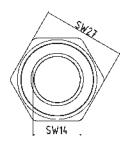
2-WV-4K

Stern-Stück
star piece

2-YV

Y-Stück 50°
Y-piece 50°

Düsen | Nozzles



2-DU-0

Düse ohne Bohrung (für Spezialanwendungen)
nozzle without hole (for special applications)

2-DU-65

Düse gerade Bohrung Ø 6,5 mm
nozzle straight Ø 6,5 mm

2-DU-10

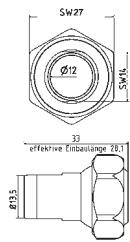
Düse gerade Bohrung Ø 10 mm
nozzle straight Ø 10 mm

Düsen | Nozzles



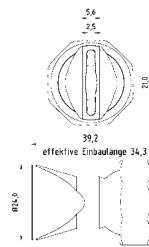
2-DU-12

Düse gerade Bohrung Ø 12 mm
nozzle straight Ø 12 mm



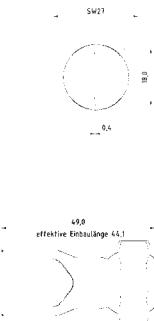
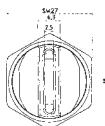
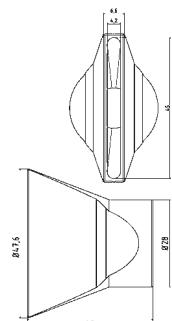
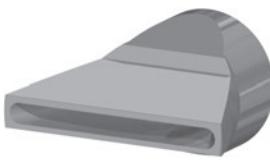
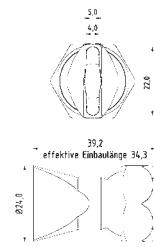
2-DU-SL-25-SS

Flachdüse Schlitzbreite 20 x 2,5 mm
Streustrahl
*flat nozzle broadly with slit 20 x 2,5 mm
scattered beam*



2-DU-SL-25

Flachdüse Schlitzbreite 22 x 4,0 mm
Streustrahl
*flat nozzle broadly with slit 22 x 4,0 mm
scattered beam*



2-DU-SL-50

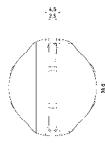
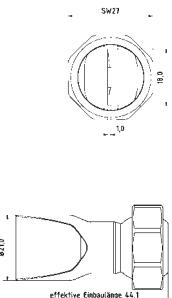
Flachdüse Schlitzbreite 45 x 4,2 mm
Streustrahl
*flat nozzle broadly with slit 45 x 4,2 mm
scattered beam*

2-DU-SL-25-GS

Flachdüse Schlitzbreite 18 x 2,5 mm
gerader Strahl
*flat nozzle broadly with slit 18 x 2,5 mm
straight jet*

2-DU-SL-25-GS-0.4

Flachdüse Schlitzbreite 18 x 0,4 mm
gerader Strahl
*flat nozzle broadly with slit 18 x 0,4 mm
straight jet*

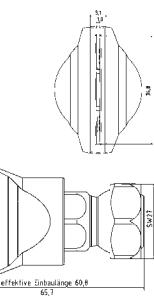
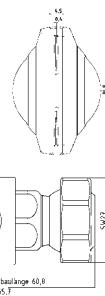
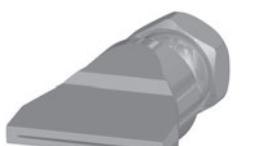
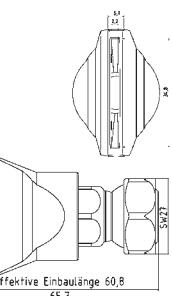
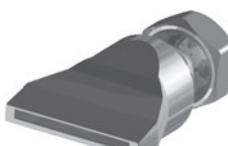


2-DU-SL-25-GS-1.0

Flachdüse Schlitzbreite 18 x 1,0 mm
gerader Strahl
*flat nozzle broadly with slit 18 x 1,0 mm
straight jet*

2-DU-SL-31-GS

Flachdüse Schlitzbreite 28 x 2,5 mm
gerader Strahl
*flat nozzle broadly with slit 28 x 2,5 mm
straight jet*



2-DU-SL-50-GS

Flachdüse Schlitzbreite 35 x 2,2 mm
gerader Strahl
*flat nozzle broadly with slit 35 x 2,2 mm
straight jet*

2-DU-SL-50-GS-0.4

Flachdüse Schlitzbreite 35 x 0,4 mm
gerader Strahl
*flat nozzle broadly with slit 35 x 0,4 mm
straight jet*

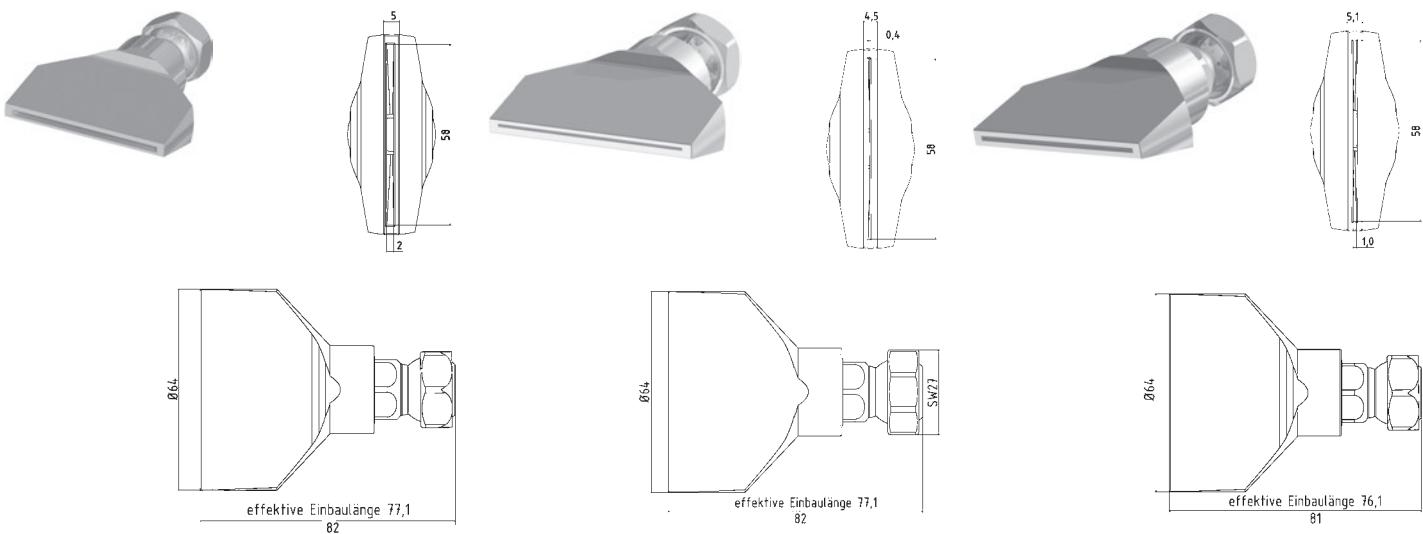
2-DU-SL-50-GS-1.0

Flachdüse Schlitzbreite 35 x 1,0 mm
gerader Strahl
*flat nozzle broadly with slit 35 x 1,0 mm
straight jet*

Type2 [1/2" System]

Hirt
LINE

Düsen | Nozzles



2-DU-SL-65-GS

Flachdüse Schlitzbreite 58 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 58 x 2,0 mm
straight jet*

2-DU-SL-65-GS-0.4

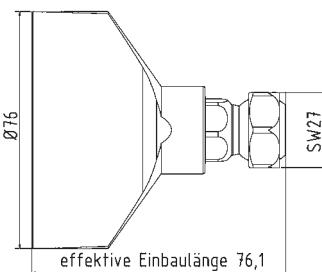
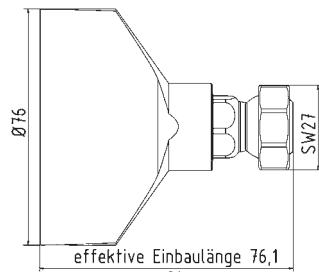
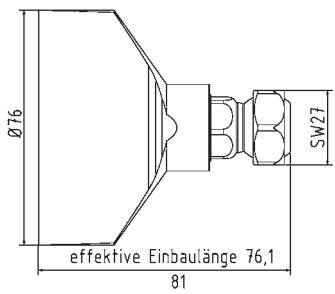
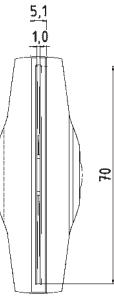
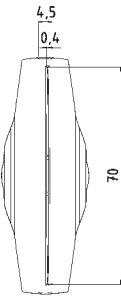
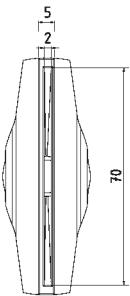
Flachdüse Schlitzbreite 58 x 0,4 mm
gerader Strahl

*flat nozzle broadly with slit 58 x 0,4 mm
straight jet*

2-DU-SL-65-GS-1.0

Flachdüse Schlitzbreite 58 x 1,0 mm
gerader Strahl

*flat nozzle broadly with slit 58 x 1,0 mm
straight jet*



2-DU-SL-76-GS

Flachdüse Schlitzbreite 70 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 70 x 2,0 mm
straight jet*

2-DU-SL-76-GS-0.4

Flachdüse Schlitzbreite 70 x 0,4 mm
gerader Strahl

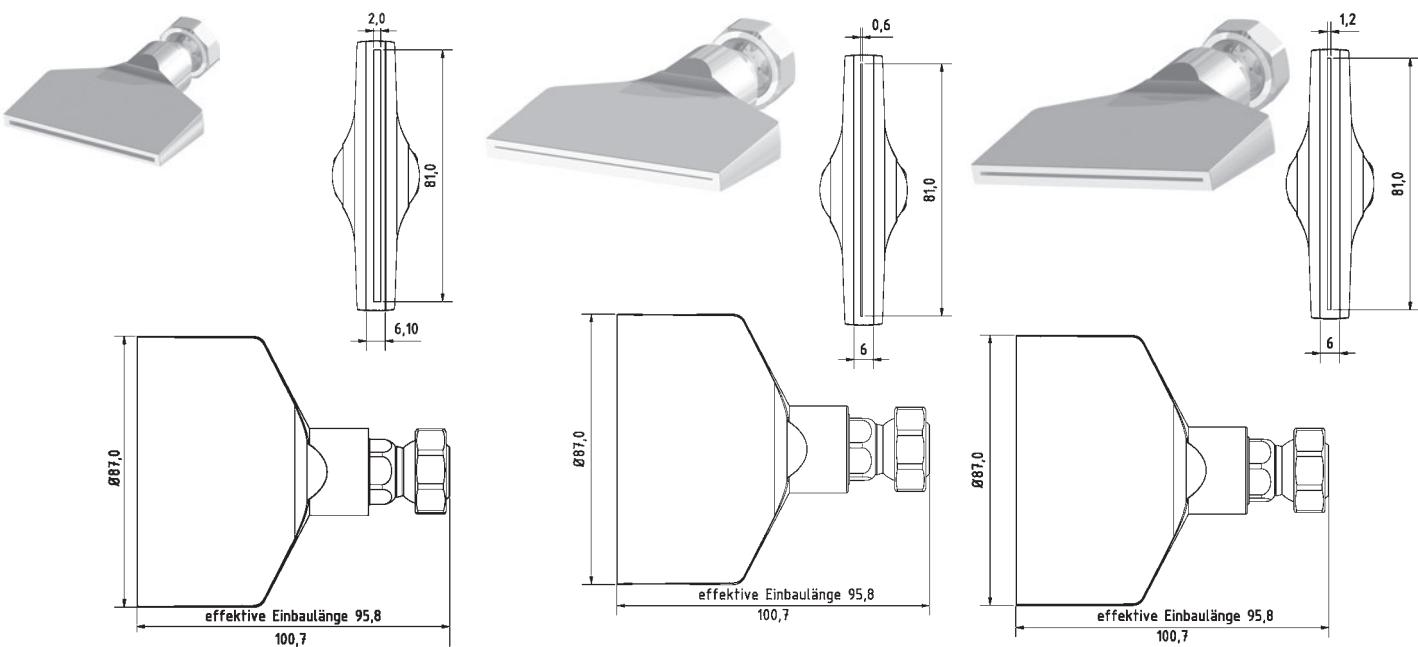
*flat nozzle broadly with slit 70 x 0,4 mm
straight jet*

2-DU-SL-76-GS-1.0

Flachdüse Schlitzbreite 70 x 1,0 mm
gerader Strahl

*flat nozzle broadly with slit 70 x 1,0 mm
straight jet*

Düsen | Nozzles



2-DU-SL-87-GS

Flachdüse Schlitzbreite 81 x 2,0 mm

gerader Strahl

*flat nozzle broadly with slit 81 x 2,0 mm
straight jet*

2-DU-SL-87-GS-0.6

Flachdüse Schlitzbreite 81 x 0,6 mm

gerader Strahl

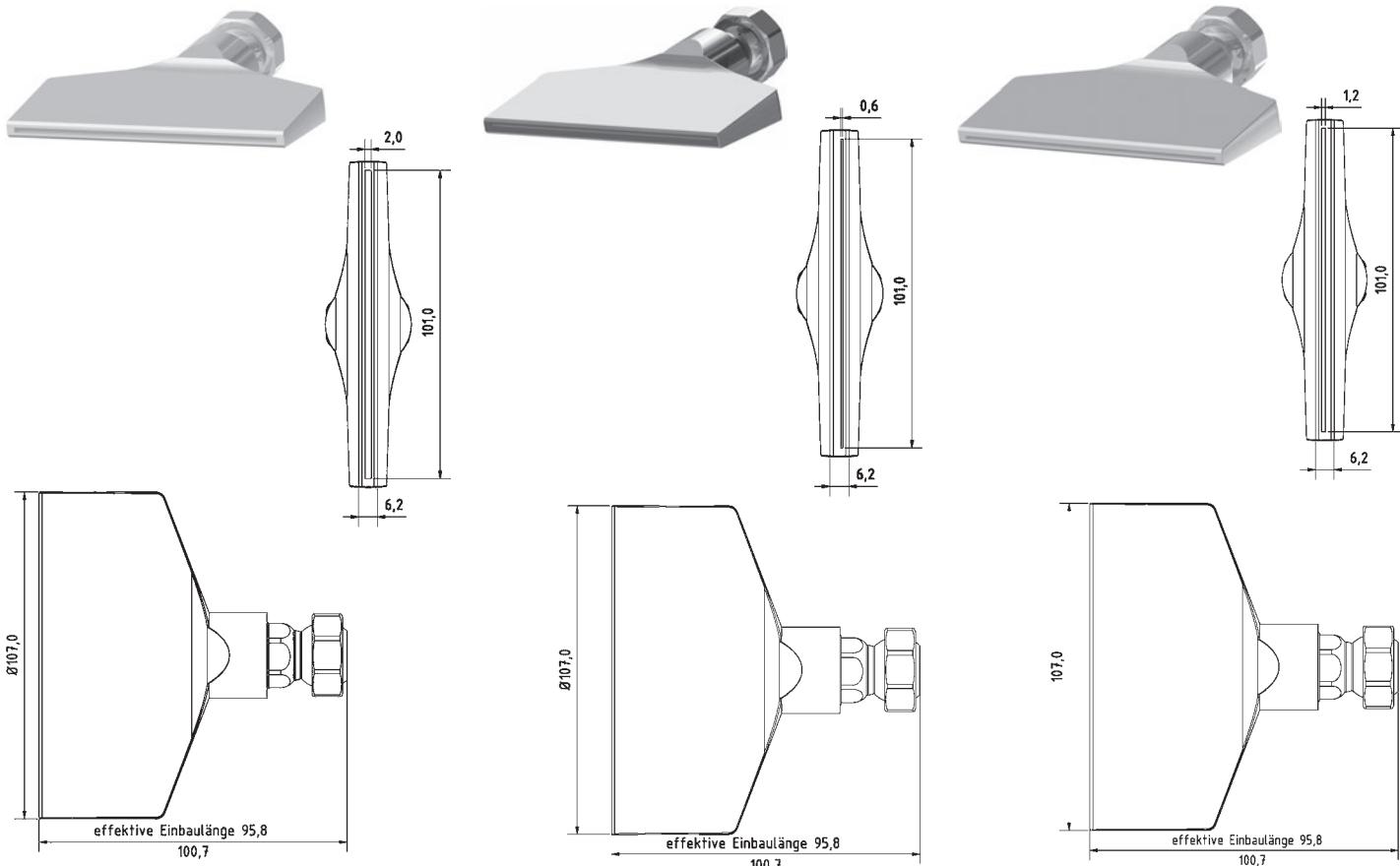
*flat nozzle broadly with slit 81 x 0,6 mm
straight jet*

2-DU-SL-87-GS-1.2

Flachdüse Schlitzbreite 81 x 1,2 mm

gerader Strahl

*flat nozzle broadly with slit 81 x 1,2 mm
straight jet*



2-DU-SL-107-GS

Flachdüse Schlitzbreite 101 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 101 x 2,0 mm
straight jet*

2-DU-SL-107-GS-0.6

Flachdüse Schlitzbreite 101 x 0,6 mm
gerader Strahl

*flat nozzle broadly with slit 101 x 0,6 mm
straight jet*

2-DU-SL-107-GS-1.2

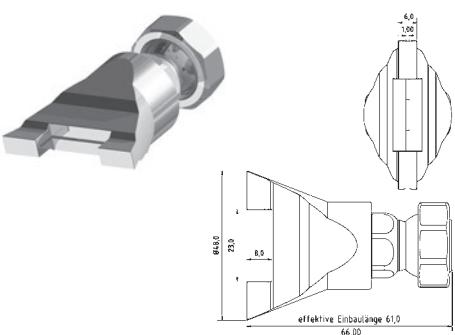
Flachdüse Schlitzbreite 101 x 1,2 mm
gerader Strahl

*flat nozzle broadly with slit 101 x 1,2 mm
straight jet*

Type2 [1/2" System]

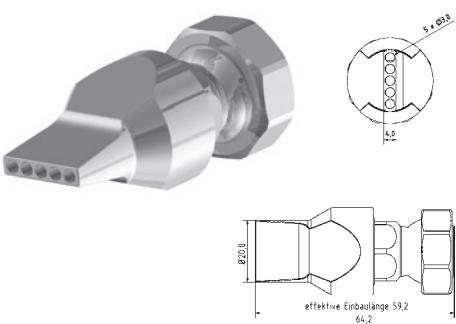
Hirt
LINE®

Düsen | Nozzles



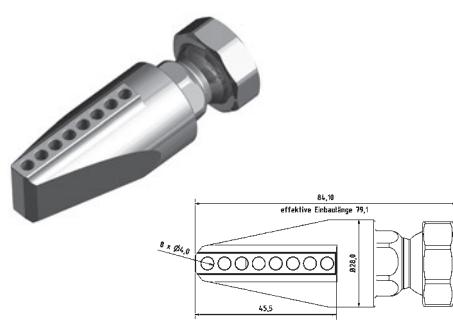
2-DU-1912-SA

Flachdüse Schlitzbreite 23 mm mit seitlicher Kühlung gerader Strahl
flat nozzle broadly with slit 23 mm with lateral cooling straight jet



2-DU-LL-5-3

Düse gerade Bohrungen 5 x Ø 3 mm
nozzle straight drill holes 5 x Ø 3 mm



2-DU-LL-90-8

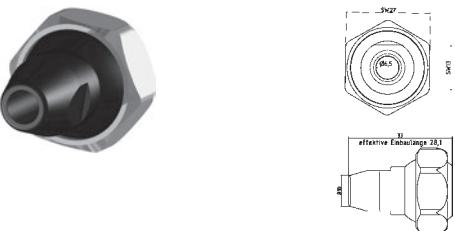
Düse 90° Bohrungen 8 x Ø 4 mm
nozzle 90° drill holes 8 x Ø 4 mm



2-DU-LL-90-1-6

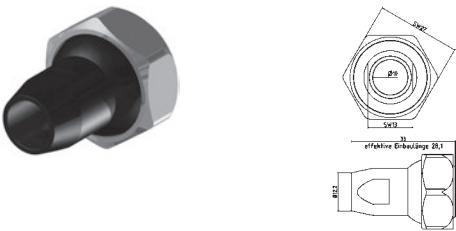
Düse 90° Bohrung 1 x Ø 6 mm
nozzle 90° drill hole 1 x Ø 6 mm

Kunststoff-Düsen | Plastic Nozzles



KU-2-DU-65

Kunststoff-Düse gerade Bohrung Ø 6,5 mm
plastic nozzle straight Ø 6,5 mm



KU-2-DU-10

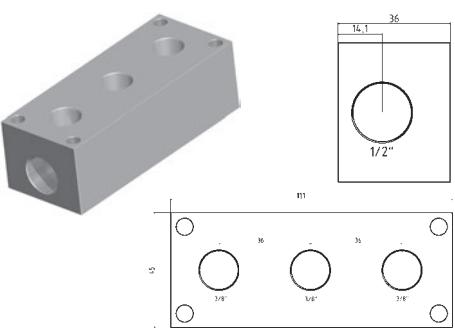
Kunststoff-Düse gerade Bohrung Ø 10 mm
plastic nozzle straight Ø 10 mm



KU-2-DU-12

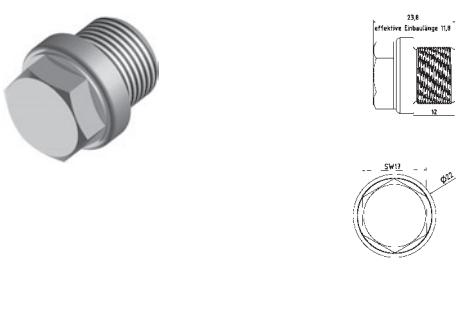
Kunststoff-Düse gerade Bohrung Ø 12 mm
plastic nozzle straight Ø 12 mm

Zubehör | Accessories



VB-3-38-PT

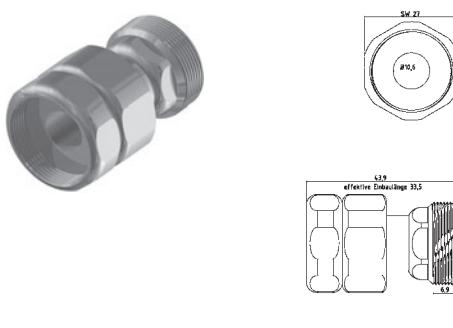
Verteilerblock Eingang Stirnseite G1/2"
manifold block entrance front end 1/2"
Verteilerblock Eingang Stirnseite G1/2" PT
manifold block entrance front end 1/2" NPT



VB-3-38-BS

Blindstopfen G3/8"

blank plug with thread 3/8"



2-FP

Zwischenelement mit fester Position
(Schnellkupplung)

Intermediate element with fixed position (quick coupling)

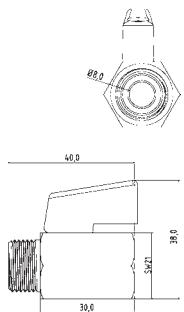


KH-38

Mini-Kugelhahn G3/8" Messing Verchromt
mini ball valve thread 3/8" brass chrome-plated

KH-38-SS

Mini-Kugelhahn G3/8" Edelstahl
mini ball valve thread 3/8" stainless steel

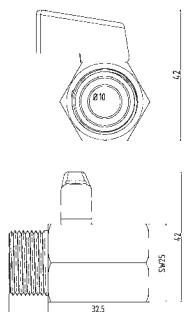


KH-12

Mini-Kugelhahn G1/2" Messing Verchromt
mini ball valve thread 1/2" brass chrome-plated

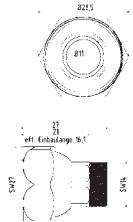
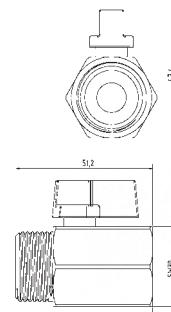
KH-12-SS

Mini-Kugelhahn G1/2" Edelstahl
mini ball valve thread 1/2" stainless steel



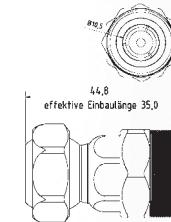
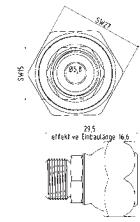
KH-34

Mini-Kugelhahn G3/4" Messing Verchromt
mini ball valve thread 3/4"



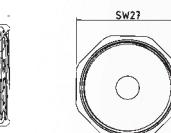
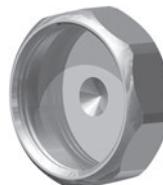
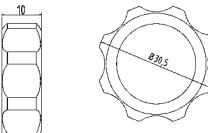
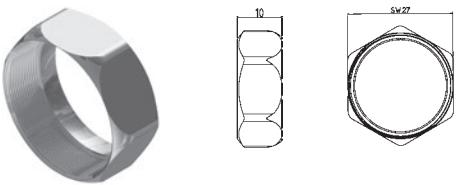
RE-2-G1/4

Reduktion Typ 2 auf G 1/4"
reduction Type 2 to G 1/4"



RE-2-1

Reduktion Typ 2 auf Typ 1
reduction Type 2 to Type 1



2-MU

Mutter Standard
screw nut (default)

2-MU-HA

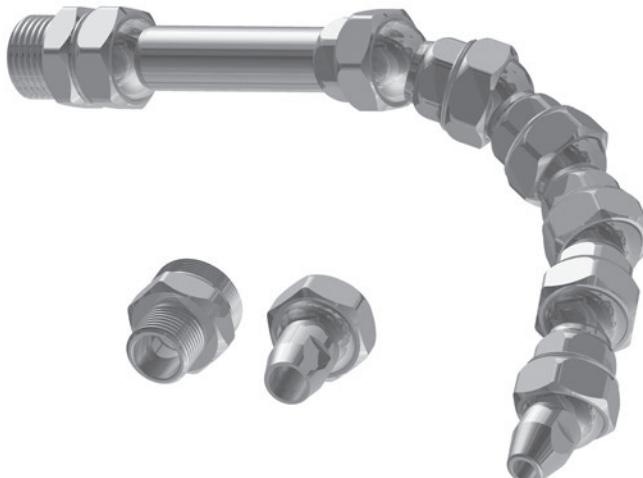
Mutter für Handverstellung
screw nut (hand feed)

2-VK

Verschlusskappe Typ 2
cap type 2



Grundset | Basic Set



SW-19

Schlüssel aus Stahl SW19
open end wrench SW19



2-GS

Grundset Typ2 1/2" System L = 240 mm
5 x 2-GE, 1 x 2-GE-3, 1 x 2-AD-38, 1 x 2-AD-12, 1 x 2-DU-65 1 x 2-DU-10, 1 x SW-19, 1 x SW-27

basic set Type2 1/2" system l = 240 mm

5 x 2-GE, 1 x 2-GE-3, 1 x 2-AD-38, 1 x 2-AD-12, 1 x 2-DU-65 1 x 2-DU-10, 1 x SW-19, 1 x SW-27

PRODUCT OVERVIEW

Type3 [3/4"]



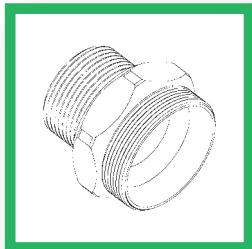
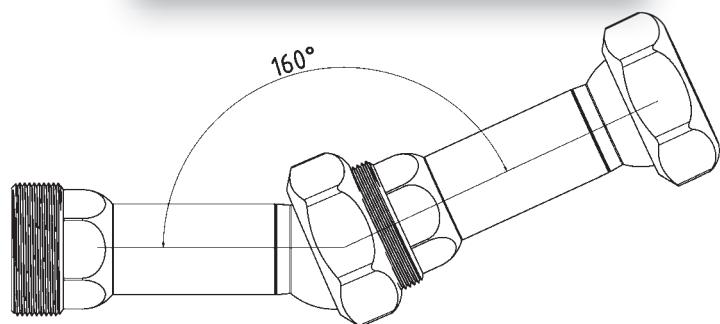
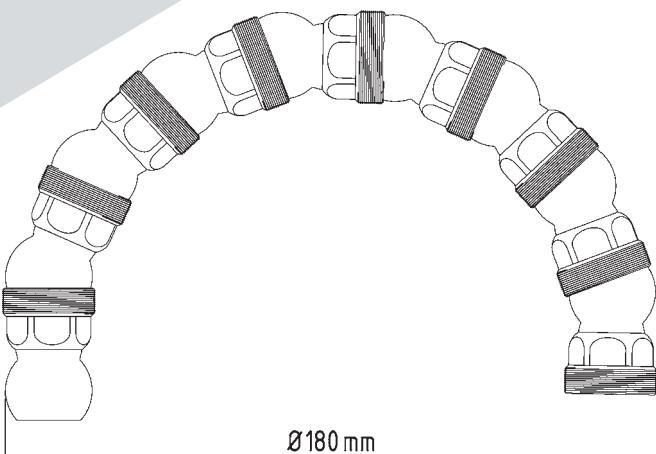
The system type 3 or also called 3/4" promises the suitable stability for your machines besides the proven and reliable quality. The 19 mm diameter diffuser provides the required litre capacity (over 200 l/min) precisely and stably (up to 60 bar) from the pump to the tool. Suitable in this system there are currently 25 different nozzles, from simple round nozzles from Ø12 mm, Ø15 mm and Ø19 mm up to the largest flat nozzle 101 mm x 2 mm which are also optimized for the grinding process. All nozzles are manufactured with high

precision and can be easily replaced for any application. With the 3/8", 3/4" and 1" adapters, it is easy to install this system on any machine. As usual, there are various basic and angular elements which allow the system to be configured flexibly and as required. Optionally a ball valve and further accessories can be acquired

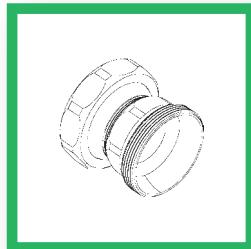
Type3 [3/4" System]

TECHNICAL SPECIFICATIONS:

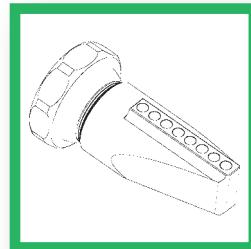
- Size Type3 (3/4")
- Passage Ø19,0 mm
- Pressure resistant up to 60 bar
- Application range -30°C to +60°C
- Optional ES-System up to +300°C (available on request)
- Thread (Elements) M34x1
- Material 1.4305 (V2A)



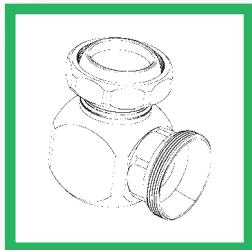
MACHINE ADAPTER



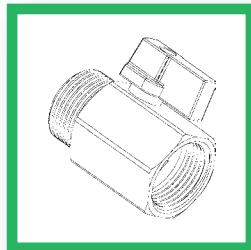
BASIC ELEMENTS



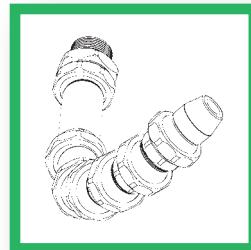
NOZZLES



ELBOWS



ACCESSORIES

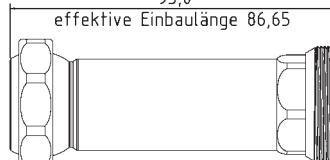
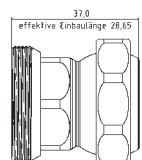
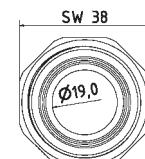
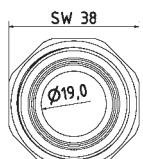
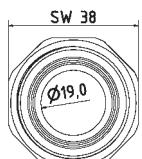


BASIC SET Type3

Type3 [3/4" System]

Hirt
LINE

Grundelemente | Basic Elements



3-GE

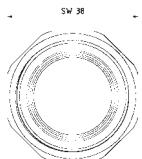
I = 37 mm effektiv l = 28,6 mm
I = 37 mm effective l = 28,6 mm

3-GE-2

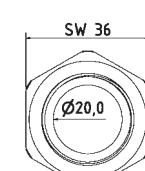
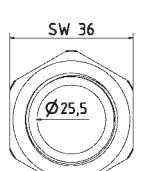
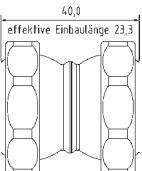
I = 66 mm effektiv l = 57,6 mm
I = 66 mm effective l = 57,6 mm

3-GE-3

I = 95 mm effektiv l = 86,6 mm
I = 95 mm effective l = 86,6 mm



Maschinen-/Düsenadapter | Machine-/Nozzle Adapter



3-GE-DK

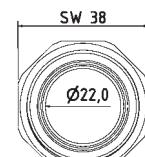
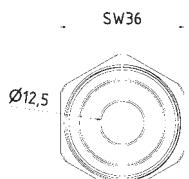
Grundelement I x 40 mm effektiv l x 23,3 mm
basic element I x 40 mm effective l x 23,3 mm

3-AD-10-PT

Adapterstück G 1" PT (Withworth-Gewinde)
adaptor piece thread G 1" PT (NPT thread)

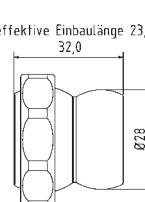
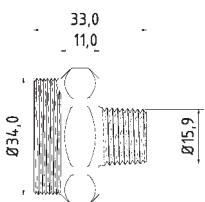
3-AD-34-PT

Adapterstück G 3/4" PT (Withworth-Gewinde)
adaptor piece thread 3/4" PT (NPT thread)



3-AD-38-PT

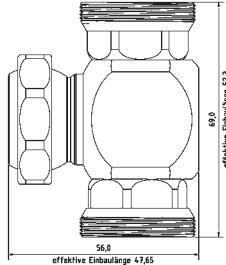
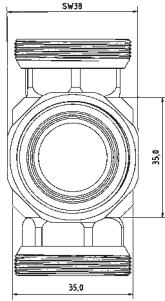
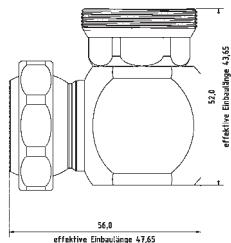
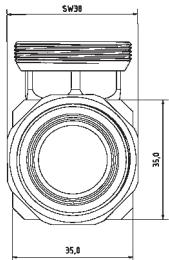
Adapterstück G 3/8" PT (Withworth-Gewinde)
adaptor piece thread 3/8" PT (NPT thread)



3-AD-LL

Adapterstück Loc-Line Typ 3
adaptor piece Loc-Line Type 3

Winkelemente | Elbows



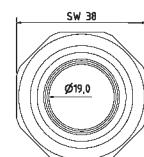
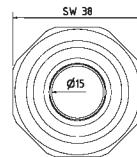
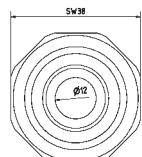
3-WV-1K

Winkelverschraubung mit Kugelstück
elbow piece movable

3-WV-2K

T-Stück mit Kugelstück
T-piece movable

Düsen | Nozzles



3-DU-12

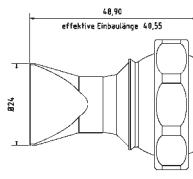
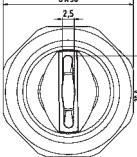
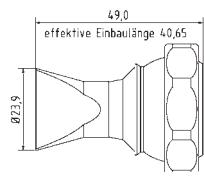
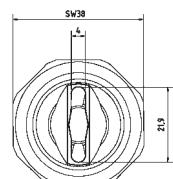
Düse gerade Bohrung Ø 12 mm
nozzle straight Ø 12 mm

3-DU-15

Düse gerade Bohrung Ø 15 mm
nozzle straight Ø 15 mm

3-DU-19

Düse gerade Bohrung Ø 19 mm
nozzle straight Ø 19 mm



3-DU-SL-25

Flachdüse Schlitzbreite 22 x 4,0 mm
Streustrahl
flat nozzle broadly with slit 22 x 4,0 mm
scattered beam

3-DU-SL-25-SS

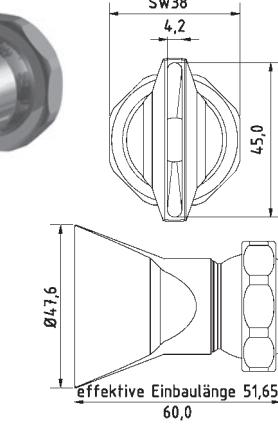
Flachdüse Schlitzbreite 20 x 2,5 mm
Streustrahl
flat nozzle broadly with slit 20 x 2,5 mm
scattered beam

3-DU-SL-50

Flachdüse Schlitzbreite 45 x 4,2 mm
Streustrahl
flat nozzle broadly with slit 45 x 4,2 mm
scattered beam

3-DU-SL-50

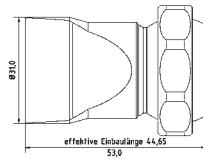
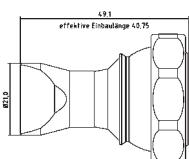
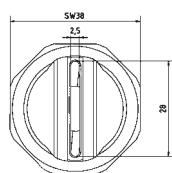
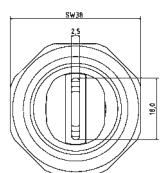
Flachdüse Schlitzbreite 45 x 4,2 mm
Streustrahl
flat nozzle broadly with slit 45 x 4,2 mm
scattered beam



Type3 [3/4" System]

Hirt
LINE®

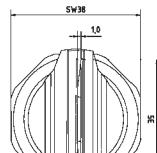
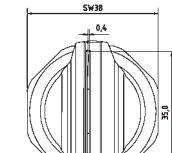
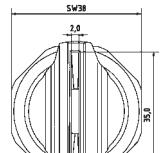
Düsen | Nozzles



3-DU-SL-25-GS

Flachdüse Schlitzbreite 18 x 2,5 mm
gerader Strahl

*flat nozzle broadly with slit 18 x 2,5 mm
straight jet*



3-DU-SL-50-GS

Flachdüse Schlitzbreite 35 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 35 x 2,0 mm
straight jet*

3-DU-SL-50-GS-0.4

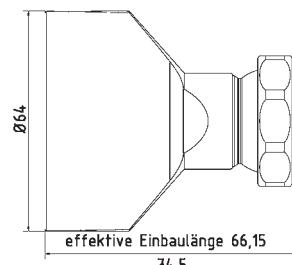
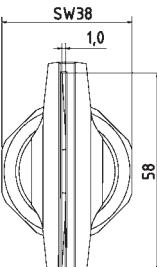
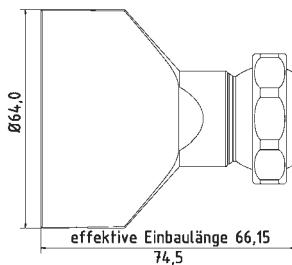
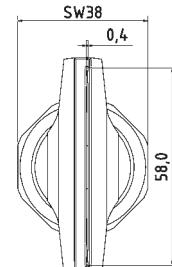
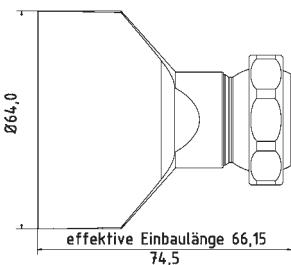
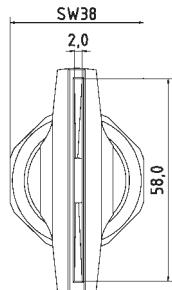
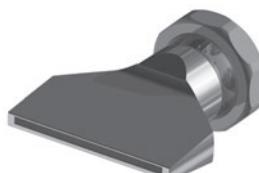
Flachdüse Schlitzbreite 35 x 0,4 mm
gerader Strahl

*flat nozzle broadly with slit 35 x 0,4 mm
straight jet*

3-DU-SL-50-GS-1.0

Flachdüse Schlitzbreite 35 x 1,0 mm
gerader Strahl

*flat nozzle broadly with slit 35 x 1,0 mm
straight jet*



3-DU-SL-65-GS

Flachdüse Schlitzbreite 58 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 58 x 2,0 mm
straight jet*

3-DU-SL-65-GS-0.4

Flachdüse Schlitzbreite 58 x 0,4 mm
gerader Strahl

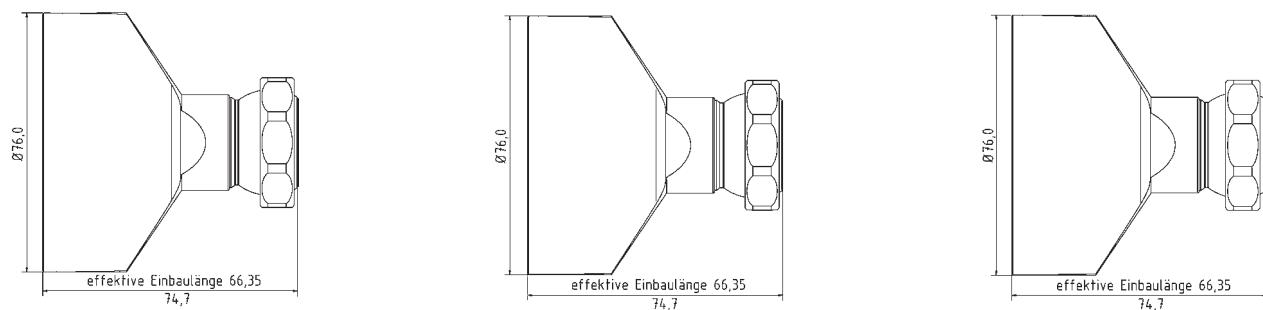
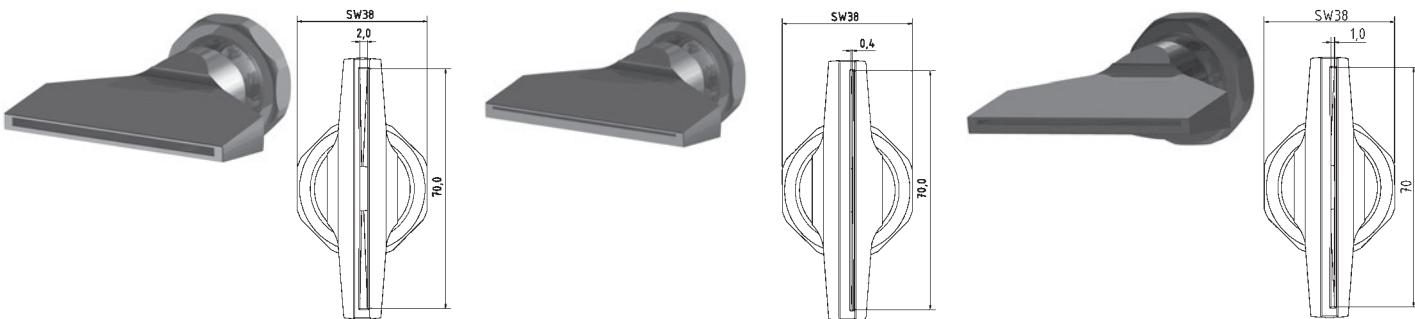
*flat nozzle broadly with slit 58 x 0,4 mm
straight jet*

3-DU-SL-65-GS-1.0

Flachdüse Schlitzbreite 58 x 1,0 mm
gerader Strahl

*flat nozzle broadly with slit 58 x 1,0 mm
straight jet*

Düsen | Nozzles



3-DU-SL-76-GS

Flachdüse Schlitzbreite 70 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 70 x 2,0 mm
straight jet*

3-DU-SL-76-GS-0.4

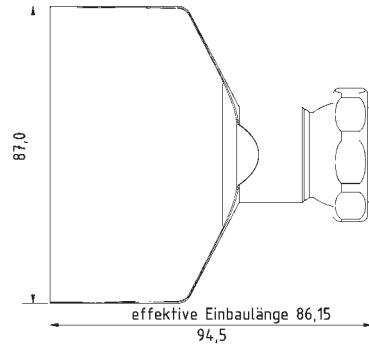
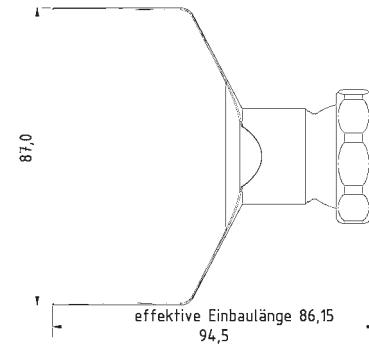
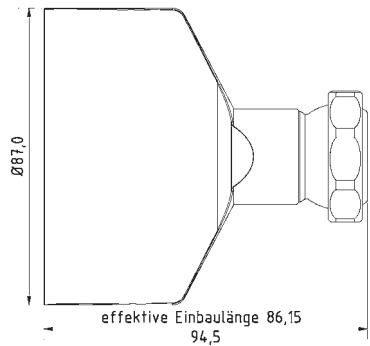
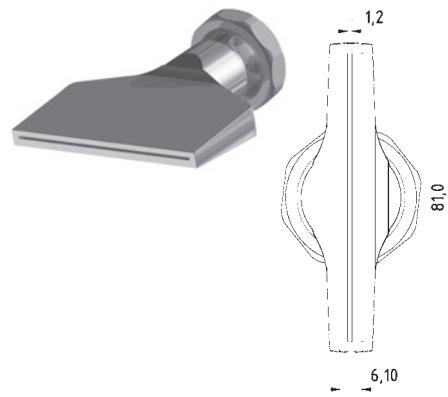
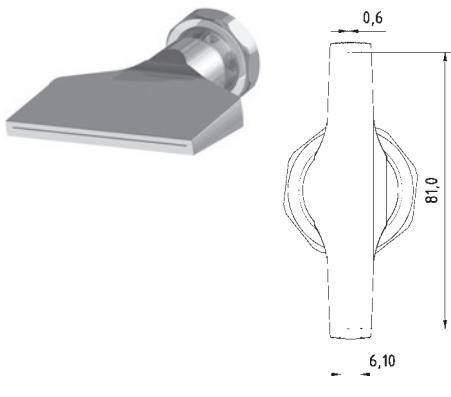
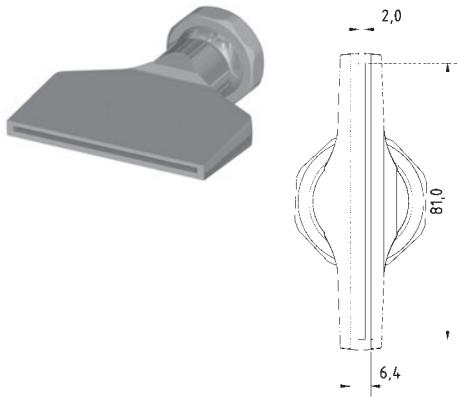
Flachdüse Schlitzbreite 70 x 0,4 mm
gerader Strahl

*flat nozzle broadly with slit 70 x 0,4 mm
straight jet*

3-DU-SL-76-GS-1.0

Flachdüse Schlitzbreite 70 x 1,0 mm
gerader Strahl

*flat nozzle broadly with slit 70 x 1,0 mm
straight jet*



3-DU-SL-87-GS

Flachdüse Schlitzbreite 81 x 2,0 mm
gerader Strahl

*flat nozzle broadly with slit 81 x 2,0 mm
straight jet*

3-DU-SL-87-GS-0.6

Flachdüse Schlitzbreite 81 x 0,6 mm
gerader Strahl

*flat nozzle broadly with slit 81 x 0,6 mm
straight jet*

3-DU-SL-87-GS-1.2

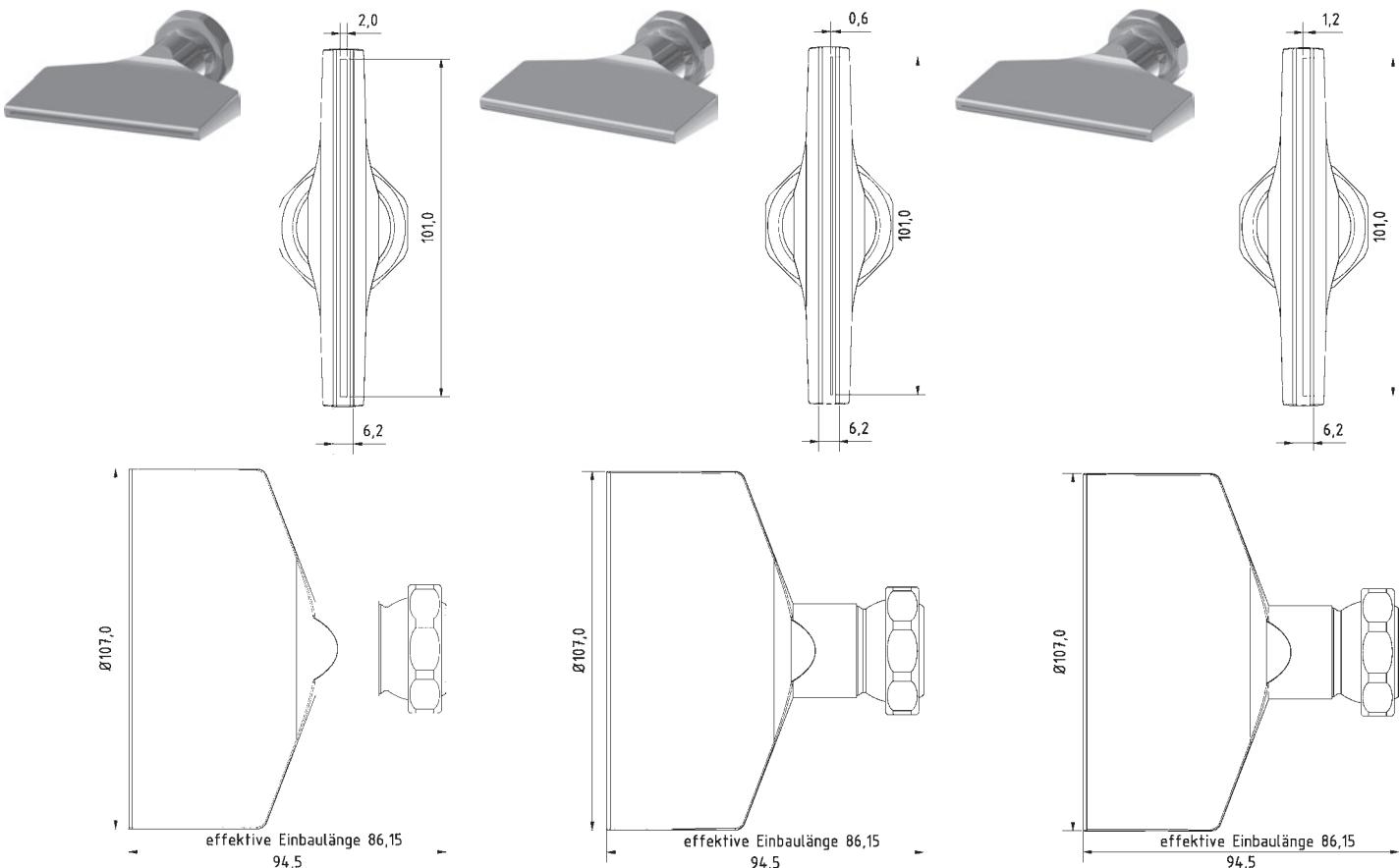
Flachdüse Schlitzbreite 81 x 1,2 mm
gerader Strahl

*flat nozzle broadly with slit 81 x 1,2 mm
straight jet*

Type3 [3/4" System]

Hirt
LINE®

Düsen | Nozzles



3-DU-SL-107-GS

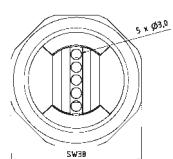
Flachdüse Schlitzbreite 101 x 2,0 mm
gerader Strahl
*flat nozzle broadly with slit 101 x 2,0 mm
straight jet*

3-DU-SL-107-GS-0.6

Flachdüse Schlitzbreite 101 x 0,6 mm
gerader Strahl
*flat nozzle broadly with slit 101 x 0,6 mm
straight jet*

3-DU-SL-107-GS-1.2

Flachdüse Schlitzbreite 101 x 1,2 mm
gerader Strahl
*flat nozzle broadly with slit 101 x 1,2 mm
straight jet*



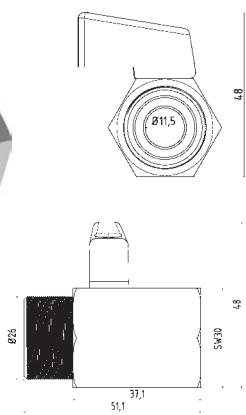
3-DU-LI-5-3

Düse gerade mit Bohrungen 5 x Ø 3 mm
nozzle straight with holes 5 x Ø 3 mm

3-DU-LI-90-8

Düse 90° mit Bohrungen 8 x Ø 4 mm
nozzle 90° with holes 8 x Ø 4 mm

Zubehör | Accessories



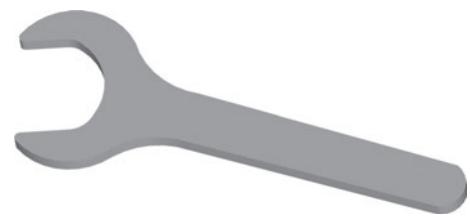
KH-34

Mini-Kugelhahn G3/4" Messing Verchromt
mini ball valve thread 3/4" brass chrome-plated



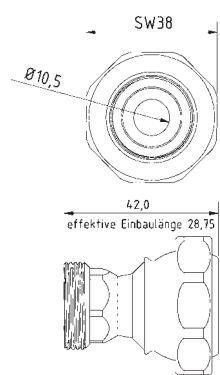
3-SW-27

Schlüssel aus Stahl SW 27
open end wrench SW 27



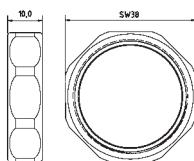
3-SW-38

Schlüssel aus Stahl SW 38
open end wrench SW 38



3-MU

Mutter Standard
screw nut (default)



RE-3-2

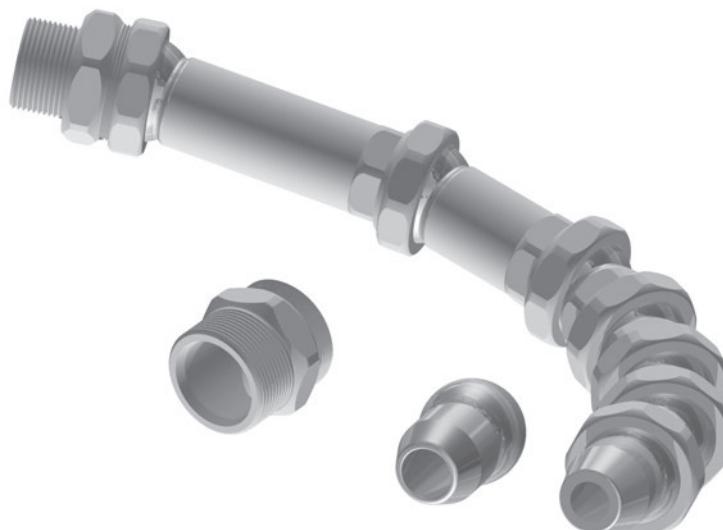
Reduktion Typ 3 auf Typ 2
reduction Type 3 to Type 2

Grundset | Basic Set

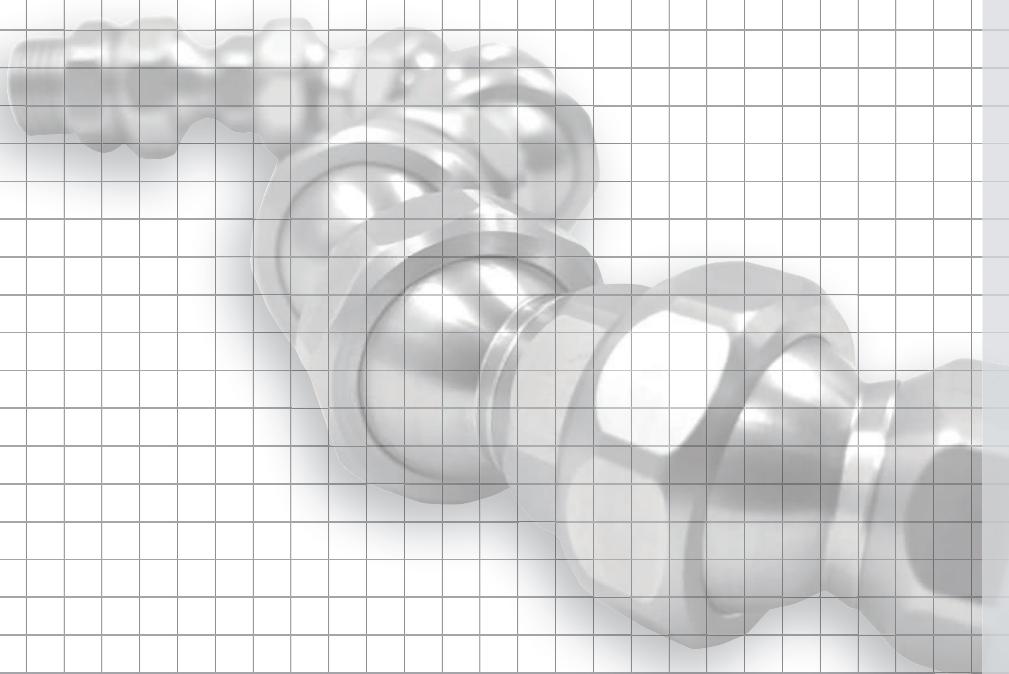
3-GS

Grundset Typ3 3/4" Zoll System L = 320 mm
basic set Type3 3/4" system l = 320 mm

4 x 3-GE, 1 x 3-GE-2, 1 x 3-GE-3,
1 x 3-AD-34PT, 1 x 3-AD-10PT, 1 x 3-DU-12,
1 x 3-DU-15, 1 x 3-SW-27, 1 x 3-SW-38



Notiz | Note





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about the benefits of our
Cooling-Lubricant-Supply Systems



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