

# PRODUKTÜBERSICHT

## *PRODUCT OVERVIEW*

**Hirt-Line<sup>®</sup>**

**Kleines System 1/4 Zoll**  
**(Durchlass 5,8 mm)**

**Small System 1/4 Inch**  
**(Outlet 5,8 mm)**

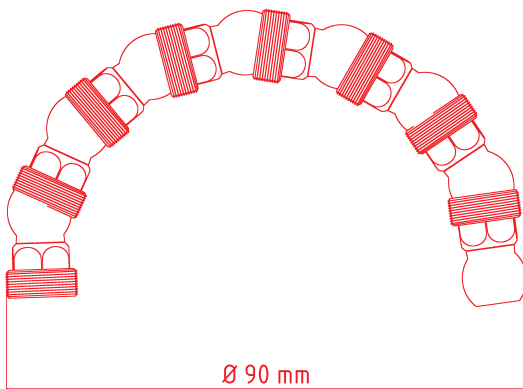


## Biegeradius

Der Durchlass-Querschnitt bleibt in jeder beliebigen Position konstant. Es entstehen keine Knicke oder Brüche wie bei Metallrohren.

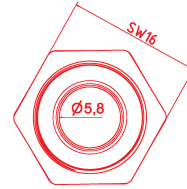
## Bending radius

*The passage cross-section is constant at any position.  
There are no kinks or breaks as with metal pipes.*

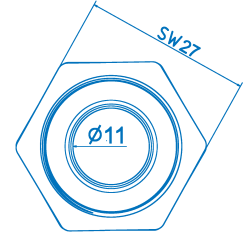


Typ 1: 1/4"

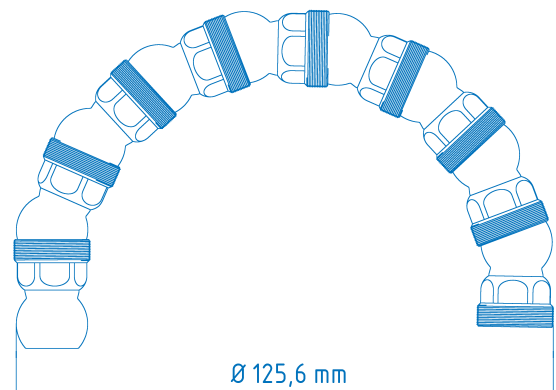
## Leitung Innendurchmesser Pipe inner diameter



Typ 1 System  
Small System

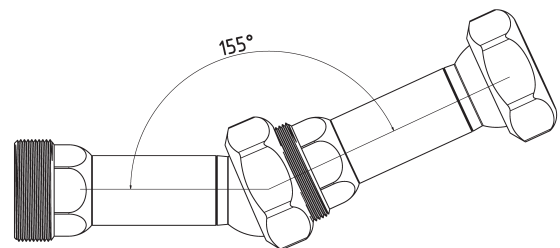
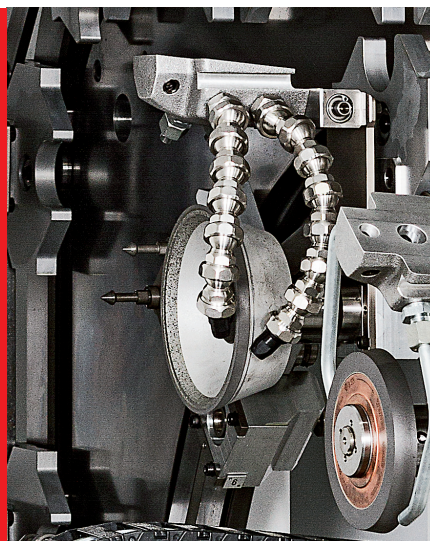


Typ 2 System  
Big System



Typ 2: 1/2"

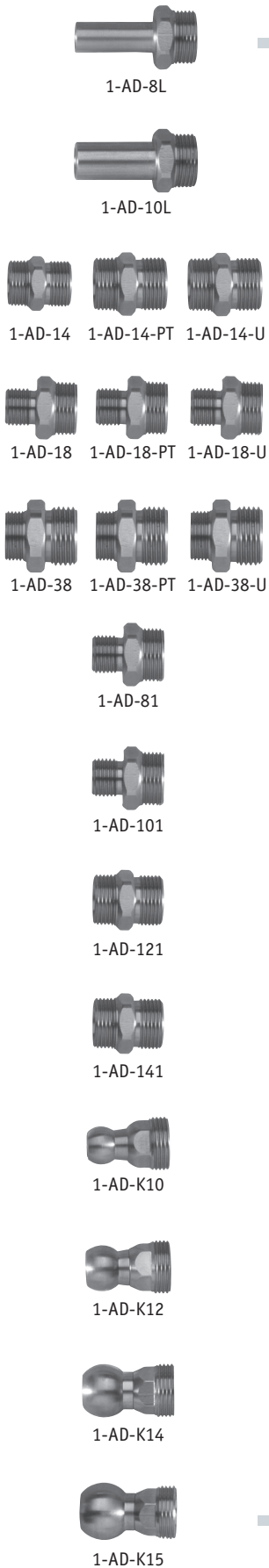
BEISPIEL:  
SCHLEIFMASCHINE  
EXAMPLE:  
GRINDING MACHINE



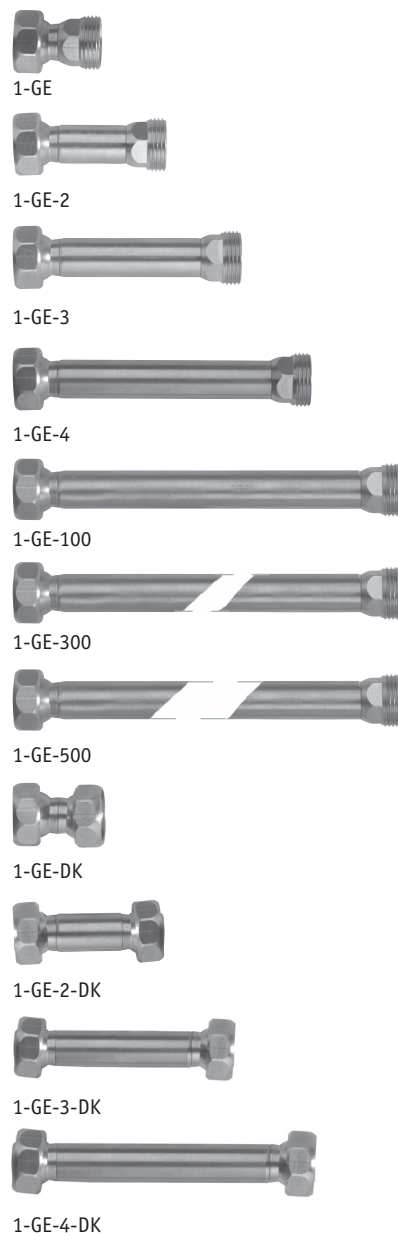
Maximaler Einstellwinkel 155°  
Maximum adjustment angle 155°

## Gesamtübersicht / Overview Typ 1 System 1/4"

### Maschinenadapter / Machine Adapter



### Grundelemente / Basic Elements



### Winklelemente / Elbows

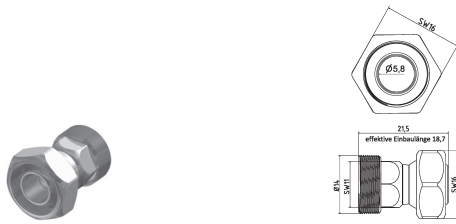


### Düsen / Nozzles



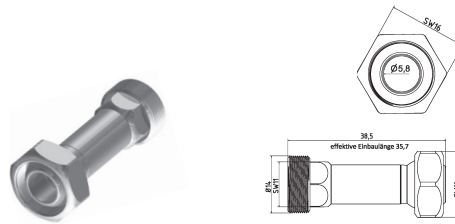


## Grundelemente / Basic Elements



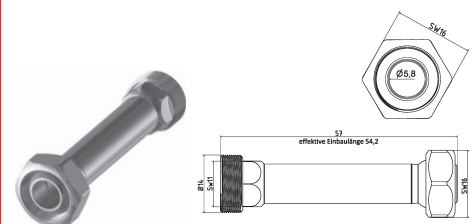
**1-GE**

$l = 21,5$  mm effektiv  $l = 18,7$  mm  
 $l = 21,5$  mm effective  $l = 18,7$  mm



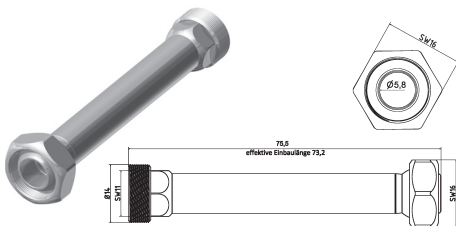
**1-GE-2**

$l = 38,5$  mm effektiv  $l = 35,7$  mm  
 $l = 38,5$  mm effective  $l = 35,7$  mm



**1-GE-3**

$l = 57$  mm effektiv  $l = 54,2$  mm  
 $l = 57$  mm effective  $l = 54,2$  mm



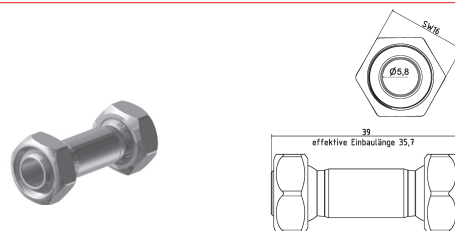
**1-GE-4**

$l = 75,5$  mm effektiv  $l = 73,7$  mm  
 $l = 75,5$  mm effective  $l = 73,7$  mm



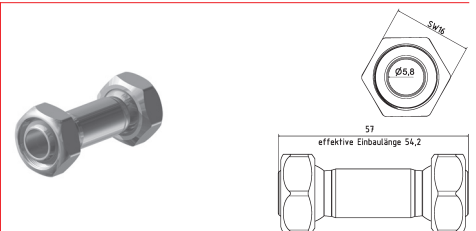
**1-GE-DK**

$l = 22$  mm effektiv  $l = 18,7$  mm Doppelkugel  
 $l = 22$  mm effective  $l = 18,7$  mm double ball



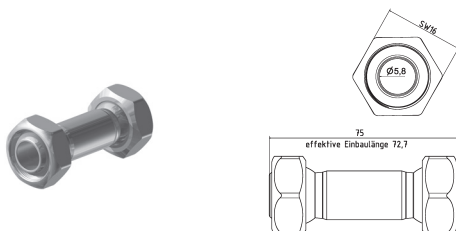
**1-GE-2-DK**

$l = 39$  mm effektiv  $l = 35,7$  mm Doppelkugel  
 $l = 39$  mm effective  $l = 35,7$  mm double ball



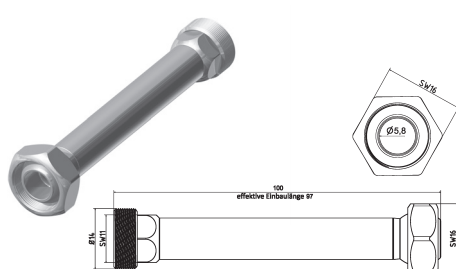
**1-GE-3-DK**

$l = 57$  mm effektiv  $l = 54,2$  mm Doppelkugel  
 $l = 57$  mm effective  $l = 54,2$  mm double ball



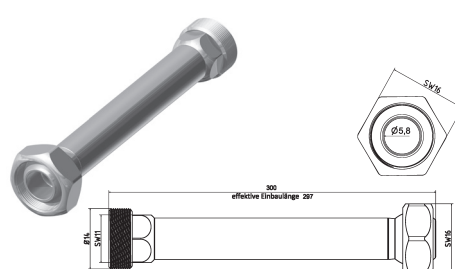
**1-GE-4-DK**

$l = 75$  mm effektiv  $l = 72,7$  mm Doppelkugel  
 $l = 75$  mm effective  $l = 72,7$  mm double ball



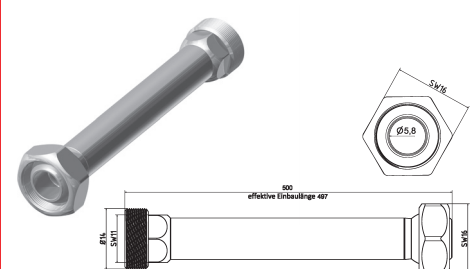
**1-GE-100**

$l = 100$  mm effektiv  $l = 97$  mm  
 $l = 100$  mm effective  $l = 97$  mm



**1-GE-300**

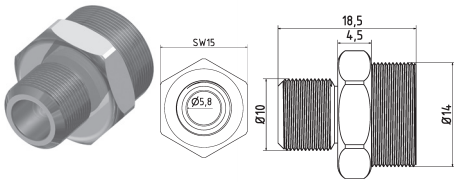
$l = 300$  mm effektiv  $l = 297$  mm  
 $l = 300$  mm effective  $l = 297$  mm



**1-GE-500**

$l = 500$  mm effektiv  $l = 497$  mm  
 $l = 500$  mm effective  $l = 497$  mm

## Maschinenadapter / Machine Adapter



### 1-AD-18

Adapterstück G 1/8"

*adaptor piece thread 1/8"*

### 1-AD-18-PT

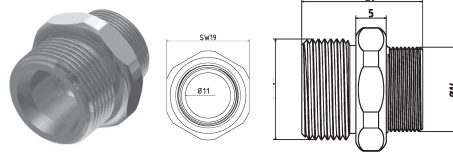
Adapterstück G 1/8" PT (Withworth-Gewinde)

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

### 1-AD-18-U

Adapterstück G 1/8" U  
(Gewinde unterschritten)

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



### 1-AD-38

Adapterstück G 3/8"

*adaptor piece thread 3/8"*

### 1-AD-38-PT

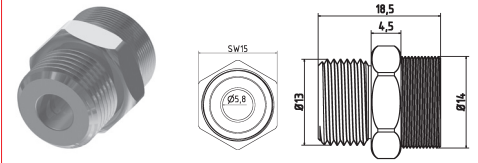
Adapterstück G 3/8" PT (Withworth-Gewinde)

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

### 1-AD-38-U

Adapterstück G 3/8" U  
(Gewinde unterschritten)

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



### 1-AD-14

Adapterstück G 1/4"

*adaptor piece thread 1/4"*

### 1-AD-14-PT

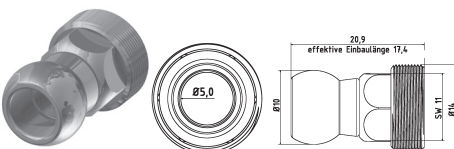
Adapterstück G 1/4" PT (Withworth-Gewinde)

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

### 1-AD-14-U

Adapterstück G 1/4" U  
(Gewinde unterschritten)

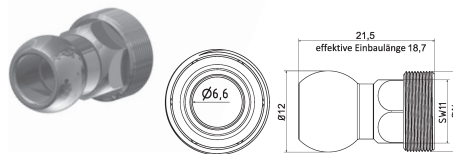
*adaptor piece thread 1/4" U  
(Undercut thread)*



### 1-AD-K10

Adapterstück Kugel Ø 10 (z.B. Traub)

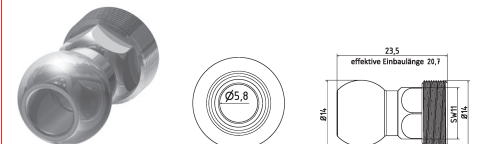
*adaptor piece ball Ø 10 mm (e.g. Traub)*



### 1-AD-K12

Adapterstück Kugel Ø 12 (z.B. MORI SEIKI)

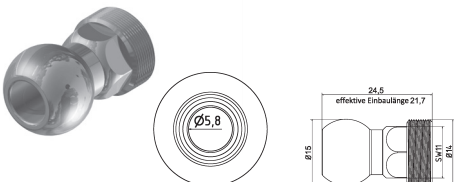
*adaptor piece ball Ø 12 mm (e.g. MORI SEIKI)*



### 1-AD-K14

Adapterstück Kugel Ø 14 (z.B. Wenk)

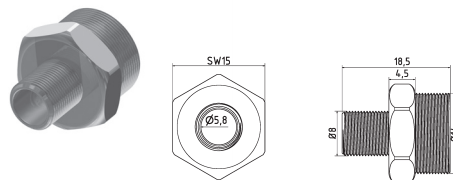
*adaptor piece ball Ø 14 mm (e.g. Wenk)*



### 1-AD-K15

Adapterstück Kugel Ø 15 (z.B. Okuma)

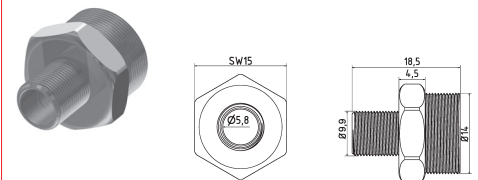
*adaptor piece ball Ø 15 mm (e.g. Okuma)*



### 1-AD-81

Adapterstück M8 x 1

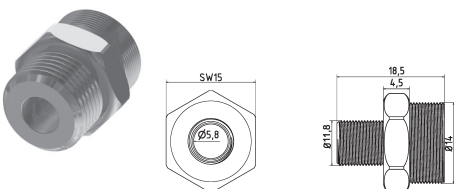
*adaptor piece M8 x 1 metric thread*



### 1-AD-101

Adapterstück M10 x 1

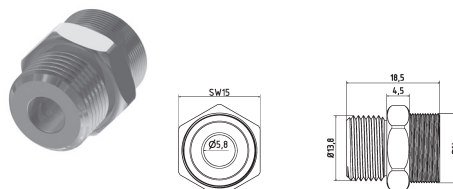
*adaptor piece M10 x 1 metric thread*



### 1-AD-121

Adapterstück M 12 x 1

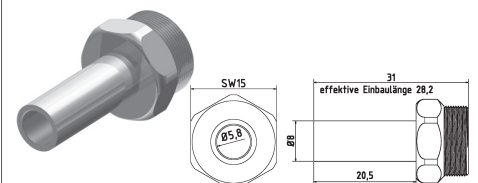
*adaptor piece M12 x 1 metric thread*



### 1-AD-141

Adapterstück M 14 x 1

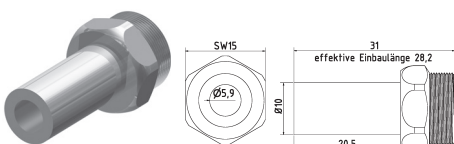
*adaptor piece M14 x 1 metric thread*



### 1-AD-8L

Adapterstück zu Hydraulik-Verschraubung 8 L

*adaptor piece to hydraulic system 8 L*

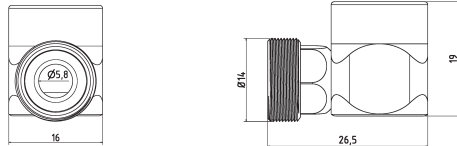
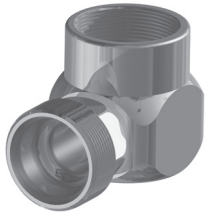


### 1-AD-10L

Adapterstück zu Hydraulik-Verschraubung 10 L

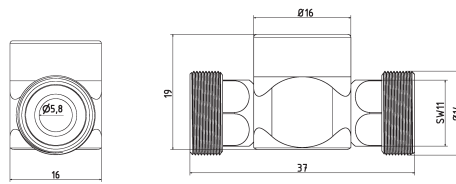
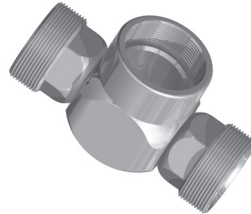
*adaptor piece to hydraulic system 10 L*

## Winkelemente / Elbows



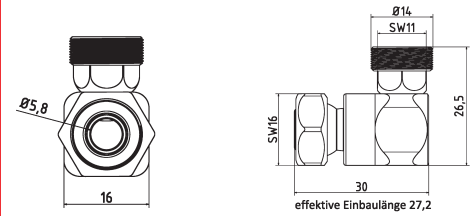
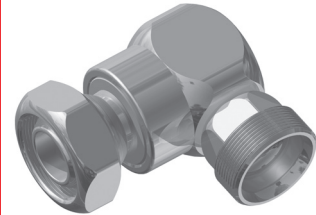
**1-WV-1**

Winkerverschraubung  
*elbow piece fixed*



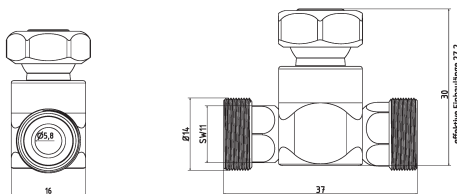
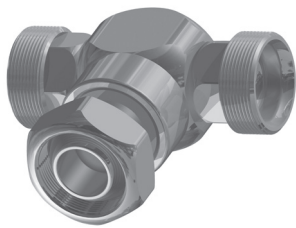
**1-WV-2**

T-Stück  
*T-piece fixed*



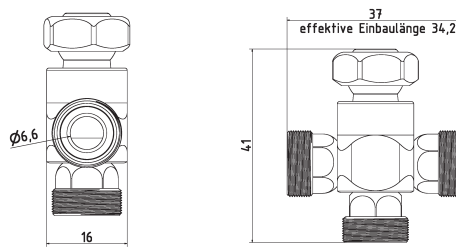
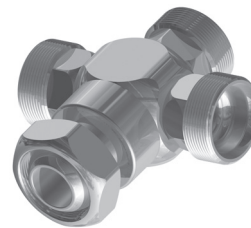
**1-WV-1K**

Winkerverschraubung mit Kugelstück  
*elbow piece moveable*



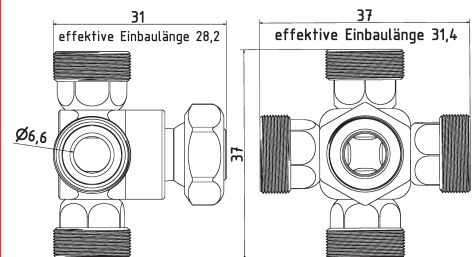
**1-WV-2K**

T-Stück mit Kugelstück  
*T-piece moveable*



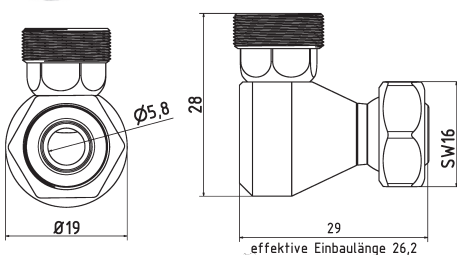
**1-WV-3K**

Kreuz-Stück mit Kugelstück  
*cross piece moveable*



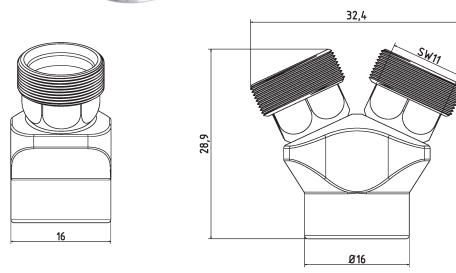
**1-WV-4K**

Stern-Stück mit Kugelstück  
*star piece moveable*



**1-WI**

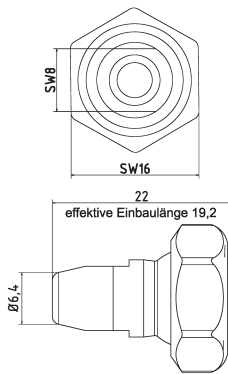
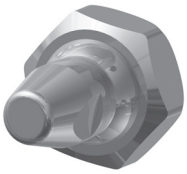
Winkelstück für Leitungen  
*corner piece for pipelines*



**1-YV**

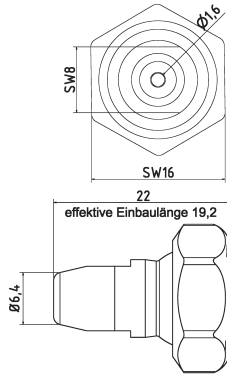
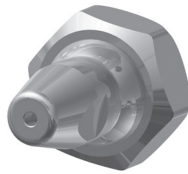
Y-Stück 50°  
*Y-piece 50°*

## Düsen / Nozzles



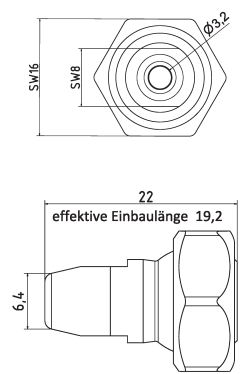
### 1-DU-0

Düse ohne Bohrung  
nozzle straight without drilling



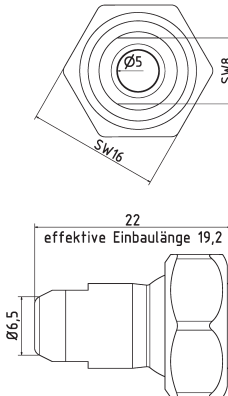
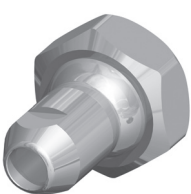
### 1-DU-16

Düse gerade Bohrung  $\varnothing 1,6$  mm  
nozzle straight  $\varnothing 1,6$  mm



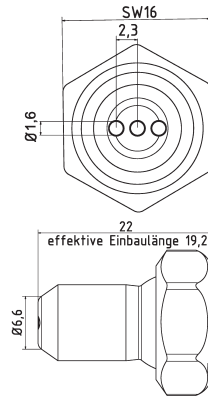
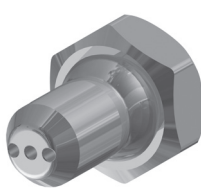
### 1-DU-32

Düse gerade Bohrung  $\varnothing 3,2$  mm  
nozzle straight  $\varnothing 3,2$  mm



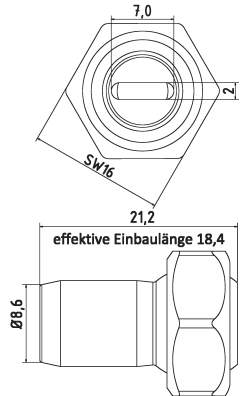
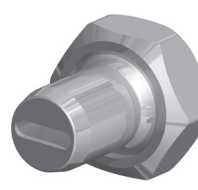
### 1-DU-50

Düse gerade Bohrung  $\varnothing 5,0$  mm  
nozzle straight  $\varnothing 5,0$  mm



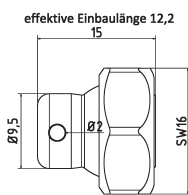
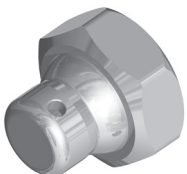
### 1-DU-3-16

Düse gerade Bohrung  $3 \times \varnothing 1,6$  mm  
nozzle straight  $3 \times \varnothing 1,6$  mm



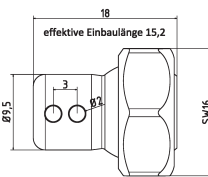
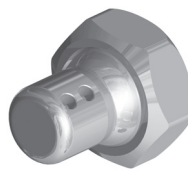
### 1-DU-72

Düse mit Schlitz  $7 \times 2,0$  mm  
nozzle straight with slit  $7 \times 2,0$  mm



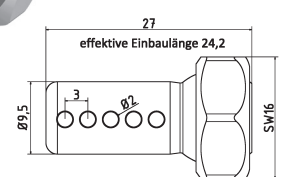
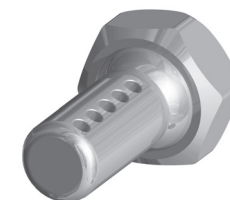
### 1-DU-90-1

Düse 90° Bohrung  $1 \times \varnothing 2$  mm  
nozzle 90° drill hole  $1 \times \varnothing 2$  mm



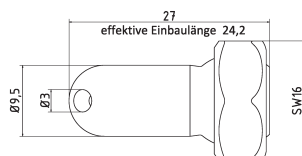
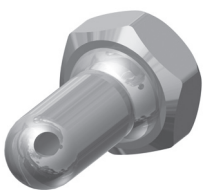
### 1-DU-90-2

Düse 90° Bohrung  $2 \times \varnothing 2$  mm  
nozzle 90° drill hole  $2 \times \varnothing 2$  mm



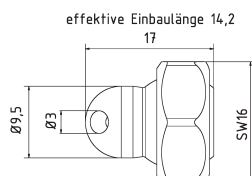
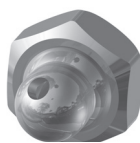
### 1-DU-90-5

Düse 90° Bohrung  $5 \times \varnothing 2$  mm  
nozzle 90° drill hole  $5 \times \varnothing 2$  mm



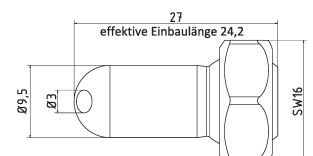
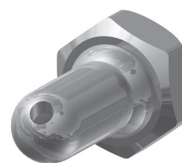
### 1-DU-30

Düse 30° Bohrung  $\varnothing 3$  mm  
nozzle 30° drill hole  $\varnothing 3$  mm



### 1-DU-30-EK

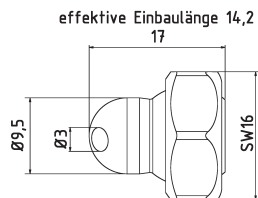
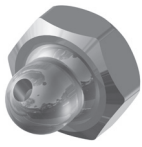
Düse 30° Bohrung  $\varnothing 3$  mm extra kurz  
nozzle 30° drill hole  $\varnothing 3$  mm extra short



### 1-DU-60

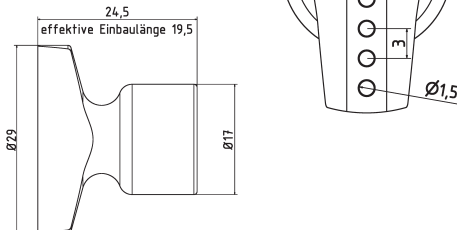
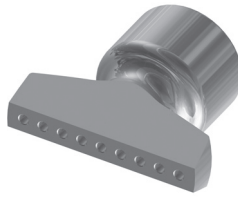
Düse 60° Bohrung  $\varnothing 3$  mm  
nozzle 60° drill hole  $\varnothing 3$  mm

## Düsen / Nozzles



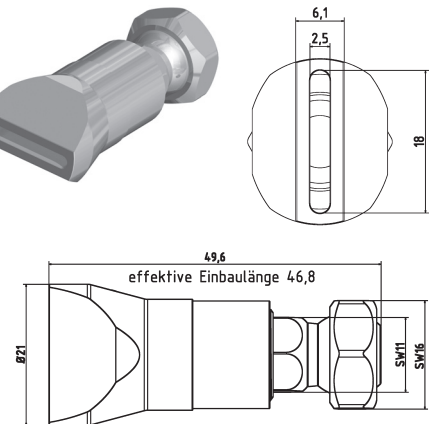
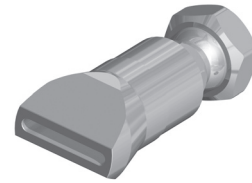
### 1-DU-60-EK

Düse 60° Bohrung Ø3 mm extra kurz  
nozzle 60° drill hole Ø3 mm extra short



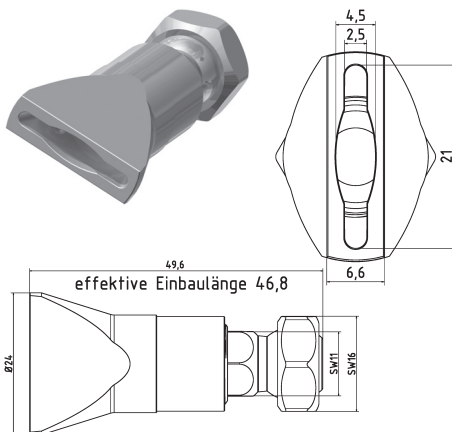
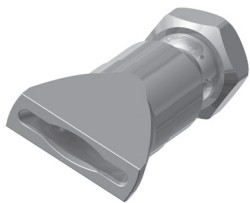
### 1-DU-BL

Düse Breit mit Bohrungen 9xØ1,5 mm  
nozzle broadly with drillings 9xØ1,5 mm



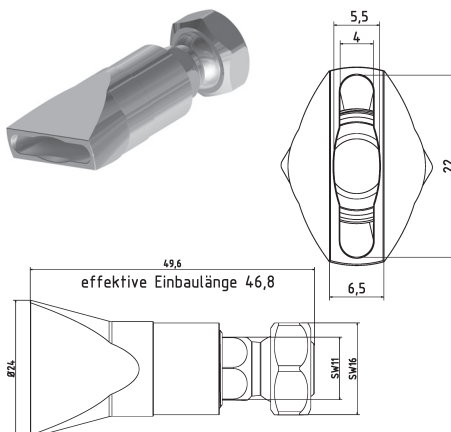
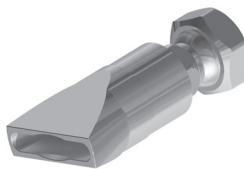
### 1-DU-SL-GS

Flachdüse Breit mit Schlitz 18x2,5 mm  
gerader Strahl  
flat nozzle broadly with slit 18x2,5 mm  
straight jet



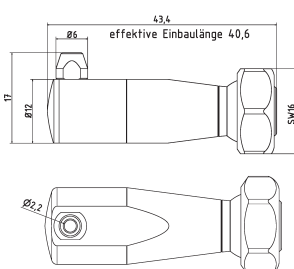
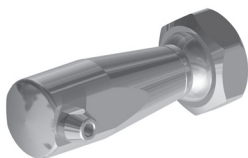
### 1-DU-SL-SS

Flachdüse Breit mit Schlitz 21x2,5 mm  
Streustrahl  
flat nozzle broadly with slit 21x2,5 mm  
scattered beam



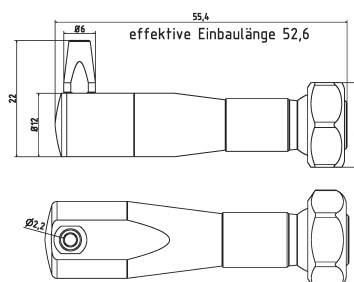
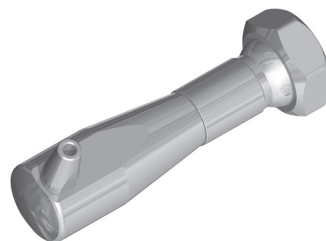
### 1-DU-SL-25

Flachdüse Breit mit Schlitz 22x4,0 mm  
Streustrahl zum Schwemmen  
flat nozzle broadly with slit 22x4,0 mm  
scattered beam



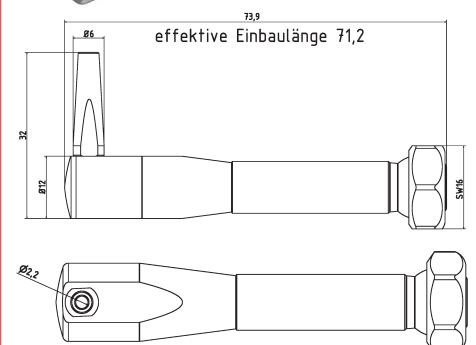
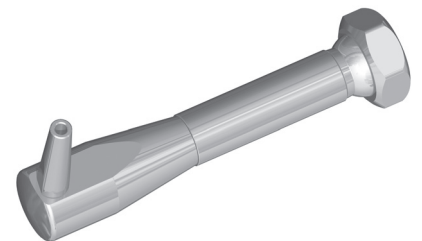
### 1-HA-DU

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

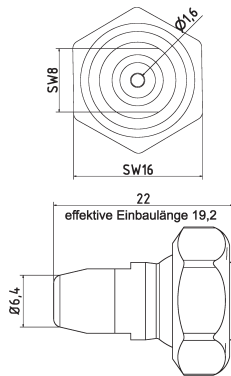
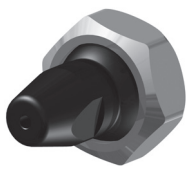


### 1-HA-DU-3

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

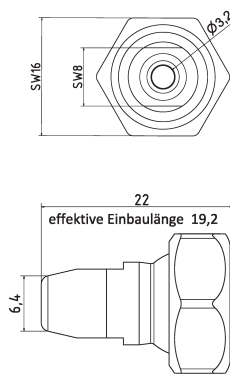
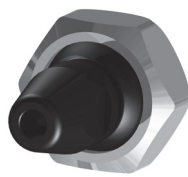


## Kunststoff-Düsen / Plastic Nozzles



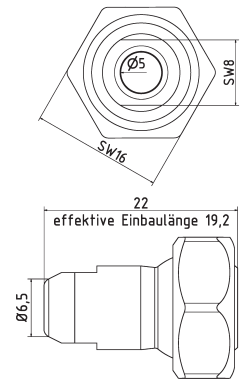
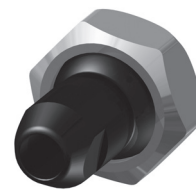
### KU-1-DU-16

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



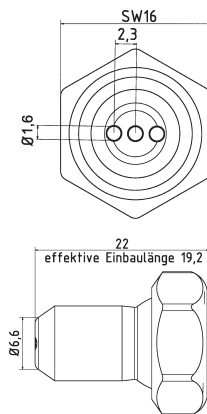
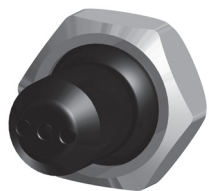
### KU-1-DU-32

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



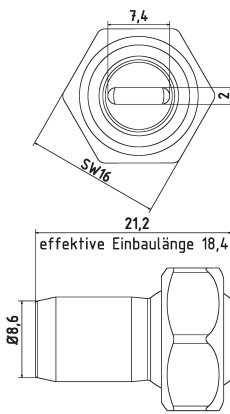
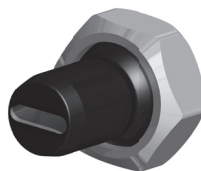
### KU-1-DU-50

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



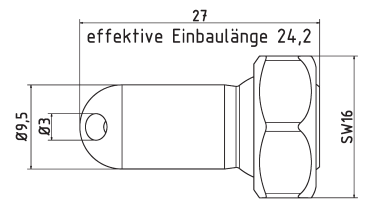
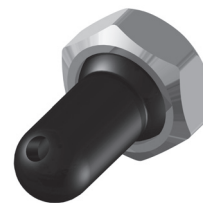
### KU-1-DU-3-16

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



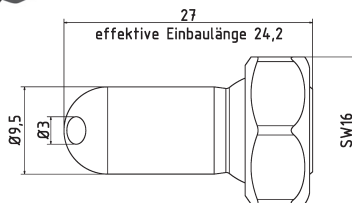
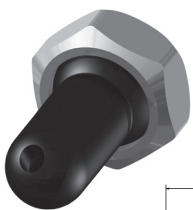
### KU-1-DU-72

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



### KU-1-DU-30

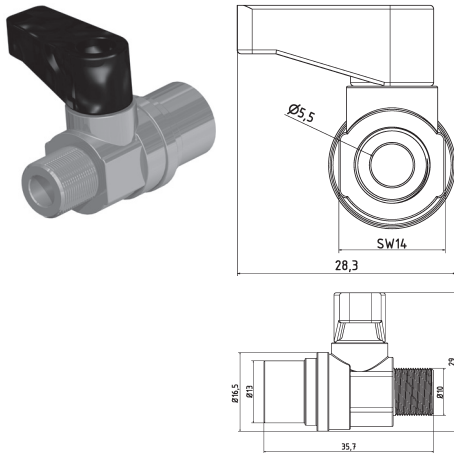
Kunststoff-Düse 30° Bohrung Ø 3 mm  
plastic nozzle 30° drill hole Ø 3 mm



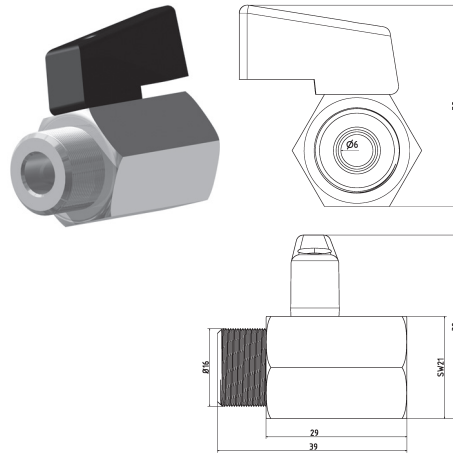
### KU-1-DU-60

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

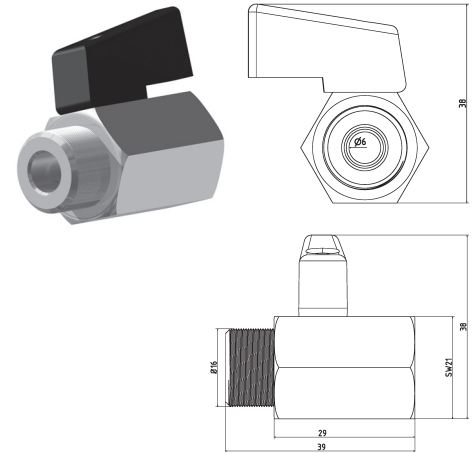
## Zubehör / Accessories



**KH-18**  
Mini-Kugelhahn G1/8" Messing Verchromt  
*mini ball valve thread 1/8" brass chrome-plated*



**KH-14**  
Mini-Kugelhahn G1/4" Messing Verchromt  
*mini ball valve thread 1/4" brass chrome-plated*



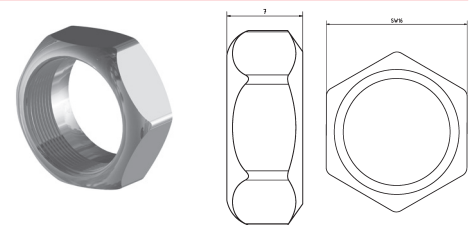
**KH-14-SS**  
Mini-Kugelhahn G1/4" Edelstahl  
*mini ball valve thread 1/4" stainless steel*



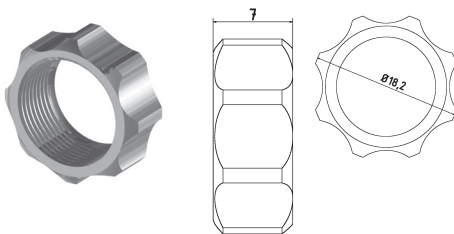
**SW-11**  
Schlüssel aus Stahl SW11  
*open end wrench SW11*



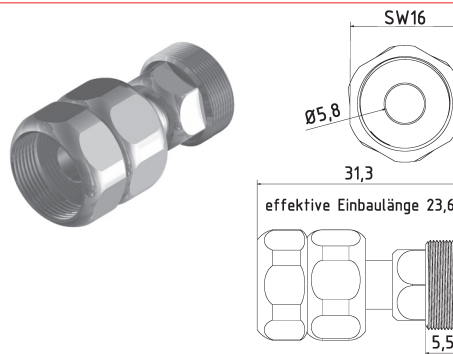
**SW-16**  
Schlüssel aus Stahl SW16  
*open end wrench SW16*



**1-MU**  
Mutter Standard  
*screw nut (default)*



**1-MU-HA**  
Mutter für Handverstellung  
*screw nut (hand feed)*



**1-FP**  
Zwischenelement mit fester Position  
(Schnellkupplung)  
*Intermediate element with fixed position  
(quick coupling)*

## Grundset / Basic Set

**1-GS**  
Grundset Typ1 1/4" System bestehend aus:  
*basic set 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

