

Changeover in
seconds!



QUIRI Point
Zéro **PZ**



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QUIRI Hydromécanique is specialized in designing and manufacturing of components and mechanical installations that use high-pressure fluids for process plant applications.

We apply our know-how and experience to small-and medium-scale manufacturing of products with high technical added-value, and to installations specifically adapted to our client's needs.

To provide our clients with complete solutions, **QUIRI Hydromécanique** retains control over all the specialist skills involved in hydraulic engineering (electronic and mechanical engineering, computer control) and high pressure pneumatic through its engineering design department, in-house precision machining, assembly and testing.

Its extensive research and development activities, combined with over 50 years experience in hydraulic systems means that it can incorporate the most effective technology into its products, and apply continuous innovation to provide new solutions.

For every project, each client is in relation with a single representative (a Project Engineer or Product Manager) who is responsible for ensuring that orders are fulfilled, right up to the time of delivery. This structure makes us more reactive whilst still allows us to retain control over all those aspects that contribute to the quality of our products (managed through a rigorous quality system certified to **ISO 9001**, 2000).

QUIRI Hydromécanique is based at in France near Strasbourg and exports a great share of its production within Europe (Germany, Spain and elsewhere) to Asia (Japan, China and Korea) and America.

QUIRI Hydromécanique supplies to major industrial groups, who rely on us to provide innovative and competitive solutions in the following sectors:

- Automotive and vehicles
- Aerospace and defence
- Power and transport

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Advice. Orders. Sales.

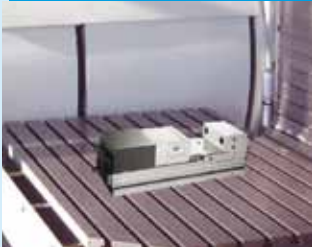
Just call us – we are here to help you. Our specialists will be happy to advise you on the products in which you are interested with no obligation.

Pricing pressure ? Margins pressure ?
Competition from low-wage countries ?

The smart move from set-up time to productivity!

QUIRI^{Point} Zéro

Change parts with the accuracy of QUIRI^{Point}
Zéro Point Zéro clamping systems.

Example:				
Assuming: 200 working days machining hour € 80.–	Set-up change conventional	Set-up change with QUIRI ^{Point} Zéro		
	20 Min. machine down time	2 Min. machine down time		
				
				additional earning with QUIRI ^{Point} Zéro
Sample 1:	per year	per year		
1 machine				
1 shift				
2 set-up change / shift	133 h	13,3 h	120 h	€ 9576.–
4 set-up change / shift	266 h	26,6 h	239 h	€ 19152.–
Sample 2:	per year	per year		
5 machine				
2 shift				
2 set-up change / shift	1330 h	133 h	1197 h	€ 95760.–
4 set-up change / shift	2660 h	266 h	2394 h	€ 191520.–

Zero-point clamping

QUIRI^{Point} Zéro

PZ

Page 6 – 8

The zero-point clamping system with patented collet lock

PZ 20

Page 9 – 20

Pull-in force per unit: 12'500 N
Retention force per unit: 40'000 N

PZ 30

Page 21 – 28

Pull-in force per unit: 20'000 N
Retention force per unit: 60'000 N

PZ 50

Page 29 – 34

Pull-in force per unit: 30'000 N
Retention force per unit: 90'000 N

PZA 30

Page 35 – 40

Pull-in force per unit: 20'000 N
Retention force per unit: 60'000 N

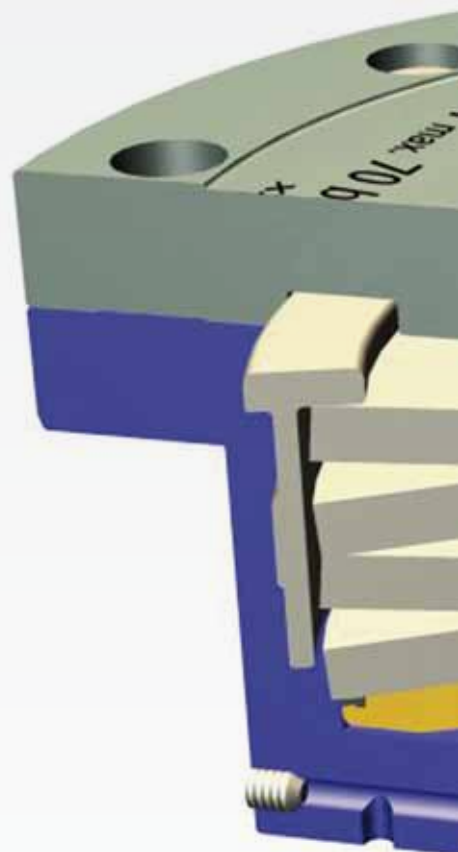
The only Zero-point clamping system with a patented collet lock.

QUIRI Point
Zéro

PZ
patented collet lock

Developed for you
Made of cold-work corrosion resistant steel Approved design, umpteen thousand sold

The modular **QUIRI** build up not just guarantees enormous time and cost savings but assures great flexibility in production. The unique interface enables setups where they actually belong, outside the machine tools, without blocking any machining time. Whether it is measuring, turning, milling, grinding or edming, with **QUIRI** your production is much more flexible, while costs and delivery time are reduced. Our long time experience on Zero point workholding permits us to quote cost efficient premium solutions specifically designed to your needs.

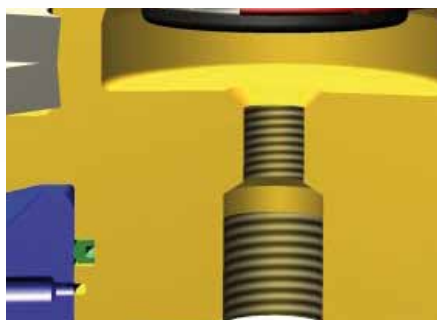


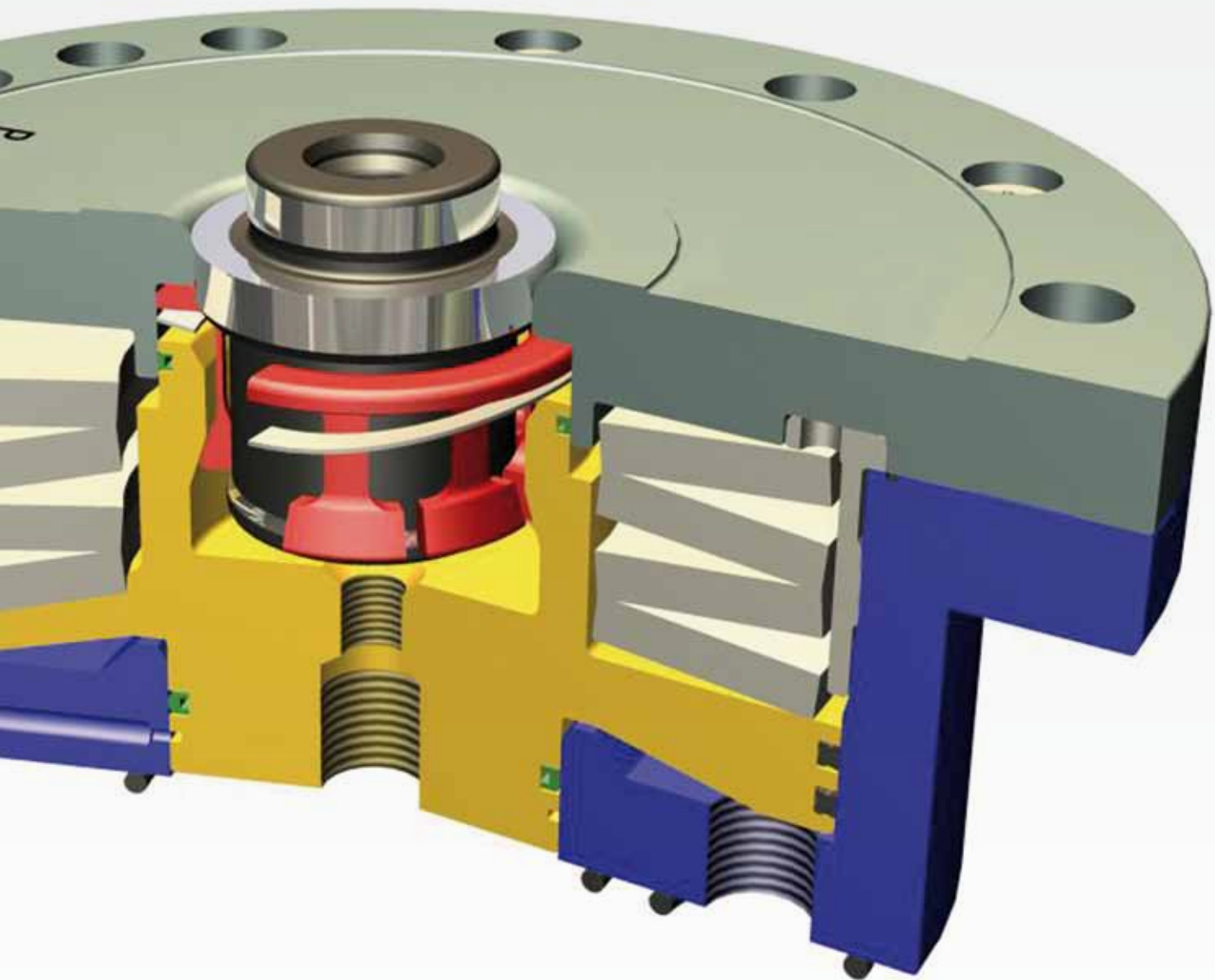
QUIRI with power and safety

		pull-in force per unit	retention force per unit	piston position control
QUIRI PZ 20		12'500 N	40'000 N	✓
QUIRI PZ 30		20'000 N	60'000 N	✓
QUIRI PZ 50		30'000 N	90'000 N	✓

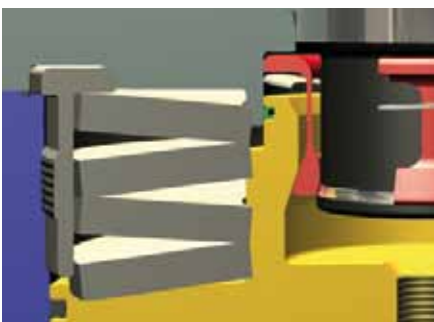
Air-blast and piston position monitoring: Process reliability.

Superior form fit clamping with collet lock.

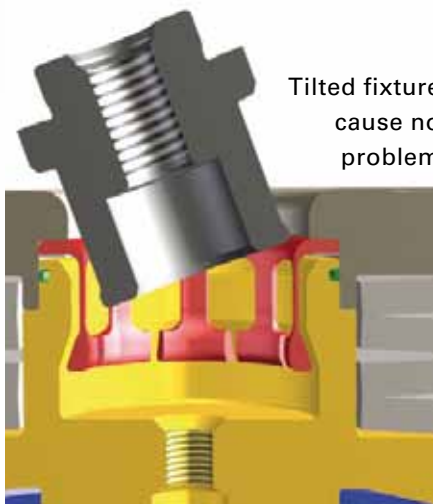




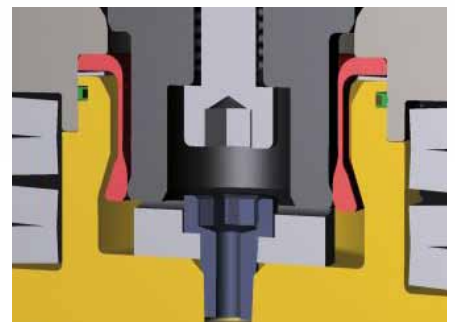
Highest pull-in and retention forces.
Mechanically clamped by disc
springs released by hydraulic



Tilted fixture
cause no
problem



Push up function produces
easy handling



Notes

Zero-point clamping

QUIRI Point
Zéro

PZ 20

Pull-in force per unit: 12'500 N
Retention force per unit: 40'000 N

Flanged cylinders	Page 10 – 11
Built-in cylinders	Page 12 – 13
Built-up cylinders	Page 14
Pneumatically activated units	Page 15
Plugs	Page 16 – 19
Accessories	Page 20



QUIRI Point Zero **PZ 20**

Flanged cylinders

for direct integration into machine tables, pallets and fixtures

PZ 20

pull-in force: 12'500 N

retention force: 40'000 N

PZ2160
PZ2160 L
PZ2160 LU

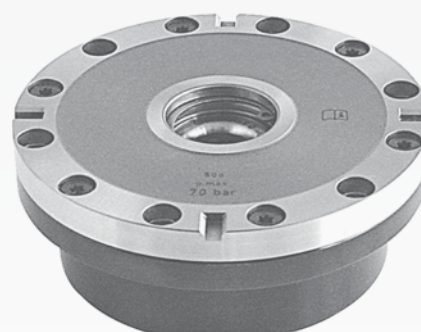
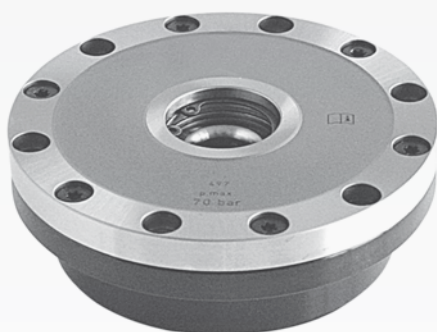
Standard
with air-blast cleaning
with air-blast cleaning and
rear side media connection

PZ2160 I
PZ2160 LI

with indexing grooves
with air-blast cleaning and
indexing grooves

PZ2160 LIU

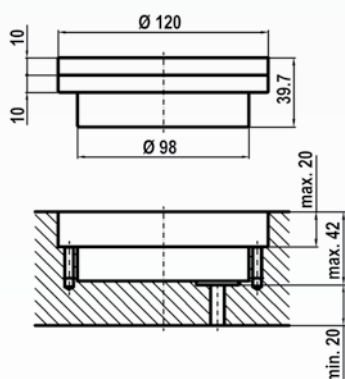
with air-blast cleaning, indexing
grooves and rear side media connection



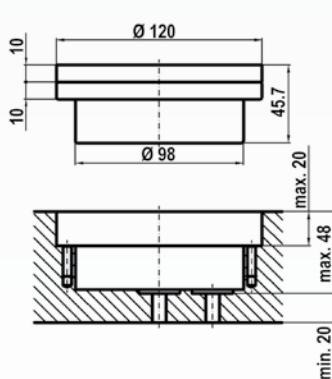
Indexing grooves

Pallets and
indexing
set screws
see page 52

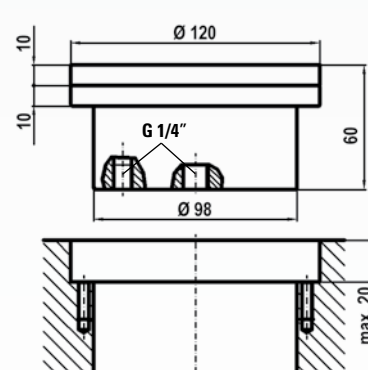
PZ2160
PZ2160 I



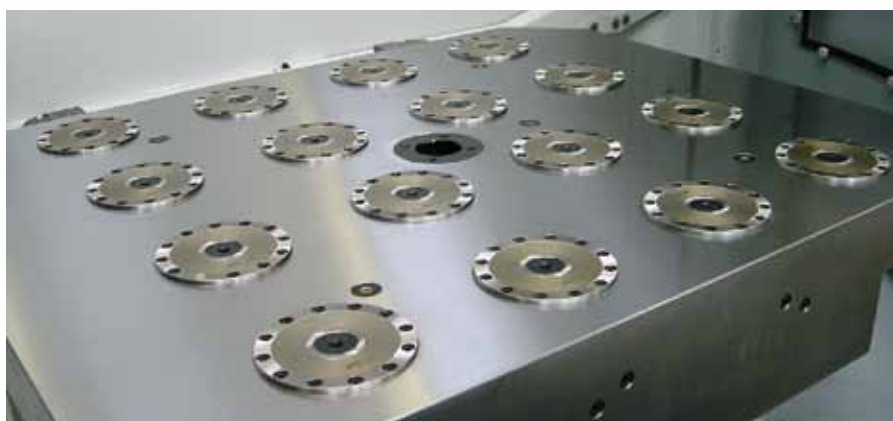
PZ2160 L
PZ2160 LI



PZ2160 LU
PZ2160 LIU



Max. operating pressure 70 bar.



QUIRI Point Zero **PZ 20**

Flanged cylinders

for direct integration into machine tables, pallets and fixtures

PZ 20

pull-in force: 12'500 N

retention force: 40'000 N

PZ2160 LA

with air-blast cleaning through center and support isles

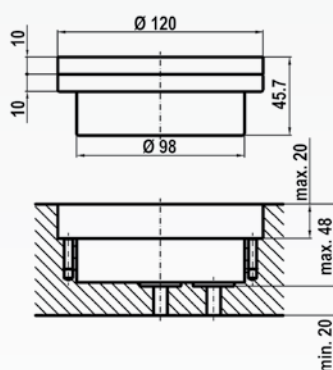
PZ2160 LAK

with air-blast cleaning through center, support isles and piston position monitoring

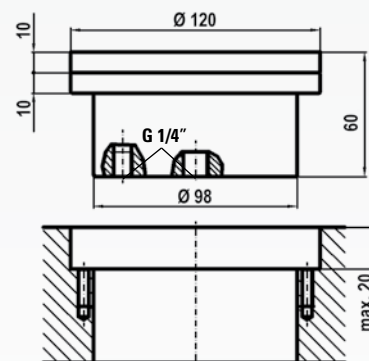
PZ2160 LAU

with air-blast cleaning through center and support isles and rear side connection for oil and air

PZ2160 LA / LAK



PZ2160 LAU



Max. operating pressure 70 bar.



QUIRI Point Zéro **PZ 20**

Built-in cylinders
for base-plates, set-up stations,
measuring machines

PZ 20

pull-in force: 12'500 N

retention force: 40'000 N

**PZ2150
PZ2150 L**

standard
with air-blast cleaning

**PZ2150 I
PZ2150 LI**

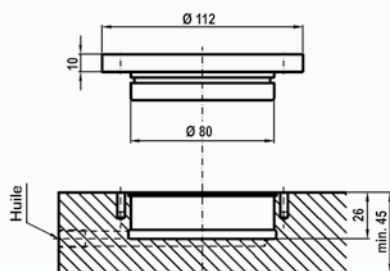
with indexing grooves
with air-blast cleaning and
indexing grooves



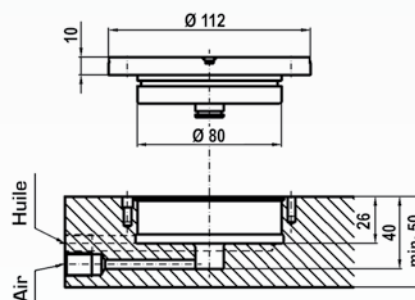
Indexing grooves

Pallets and
indexing
set screws
see page 52

**PZ2150
PZ2150 I**



**PZ2150 L
PZ2150 LI**



Max. operating pressure 70 bar.



QUIRI Point Zéro **PZ 20**

Built-in cylinders
for base-plates, set-up stations,
measuring machines

PZ 20

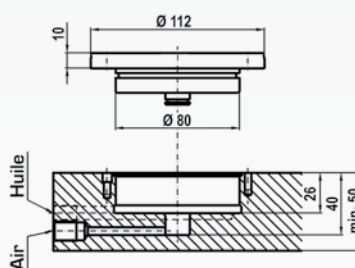
pull-in force: 12'500 N

retention force: 40'000 N

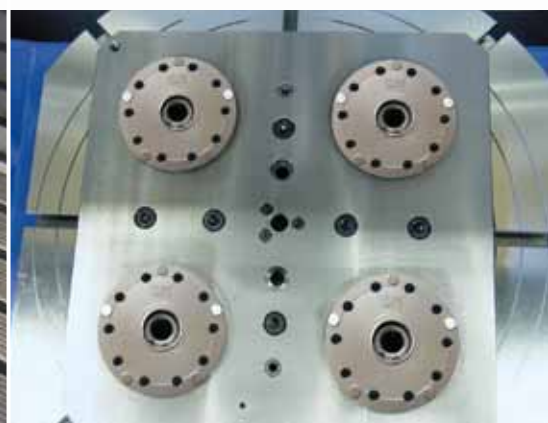
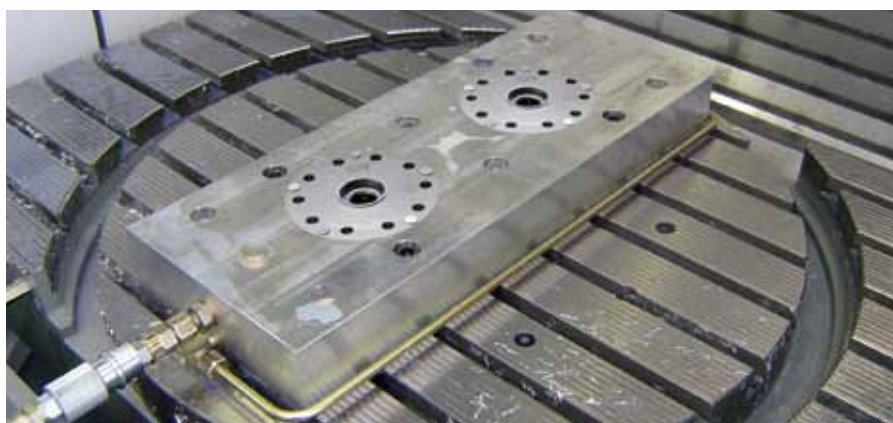
PZ2150 LA with air-blast cleaning through center
and support isles



PZ2150 LA



Max. operating pressure 70 bar.



QUIRI Point Zero **PZ 20**

Built-up cylinders for flexible configuration

PZ 20

pull-in force: 12'500 N

retention force: 40'000 N

**PZ2110
PZ2110 L**

standard
with air-blast cleaning

**PZ2110 I
PZ2110 LI**

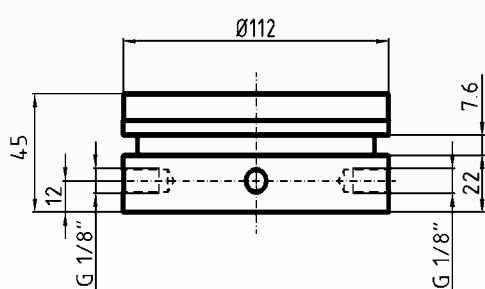
with indexing grooves
with air-blast cleaning and
indexing grooves



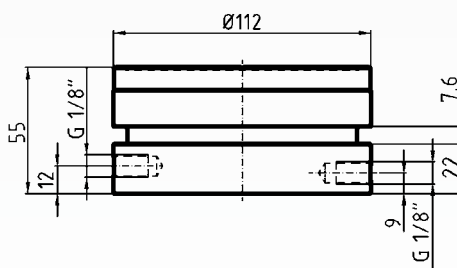
Indexing grooves

**Pallets and
indexing
set screws
see page 52**

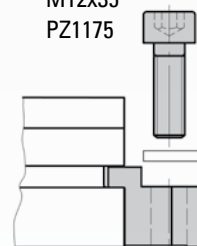
**PZ2110
PZ2110 I**



**PZ2110 L
PZ2110 LI**



Socket head screw
M12x35
PZ1175



Bracket
PZ1172

Max. operating pressure 70 bar.



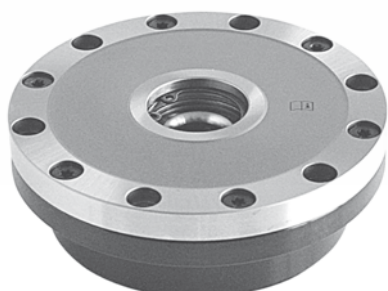
Pneumatically activated units

PZ 20

PZ 30 sur demande
PZ 50 sur demande

Flanged cylinders

PZ2160 P	Standard
PZ2160 LP	with air-blast cleaning
PZ2160 LUP	with air-blast cleaning and rear side media connection
PZ2160 IP	with indexing grooves
PZ2160 LIP	with air-blast cleaning and indexing grooves
PZ2160 LIUP	with air-blast cleaning, indexing grooves and rear side media connection
PZ2160 LAP	with air-blast cleaning through center and support isles
PZ2160 LAUP	with air-blast cleaning, through center and support isles and rear side media connection
PZ2160 LAKP	with air-blast cleaning through center and support isles and piston position monitoring



PZ2160 ... P

Pression de service minimale 5 bar

Built-in cylinders

PZ2150P	Standard
PZ2150 LP	with air-blast cleaning
PZ2150 IP	with indexing grooves
PZ2150 LIP	with air-blast cleaning and indexing grooves
PZ2150 LAP	with air-blast cleaning through center and support isles



PZ2150 ... P

Built-up cylinders

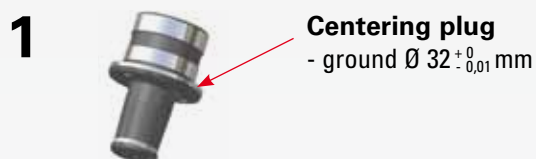
PZ2110P	Standard
PZ2110 LP	with air-blast cleaning
PZ2110 IP	with indexing grooves
PZ2110 LIP	with air-blast cleaning and indexing grooves



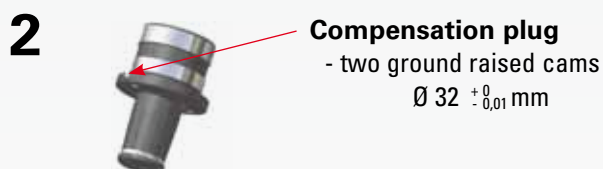
PZ2110 ... P

Plugs recommended plug arrangement

PZ 20



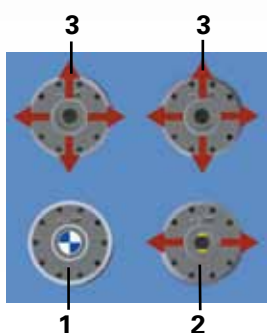
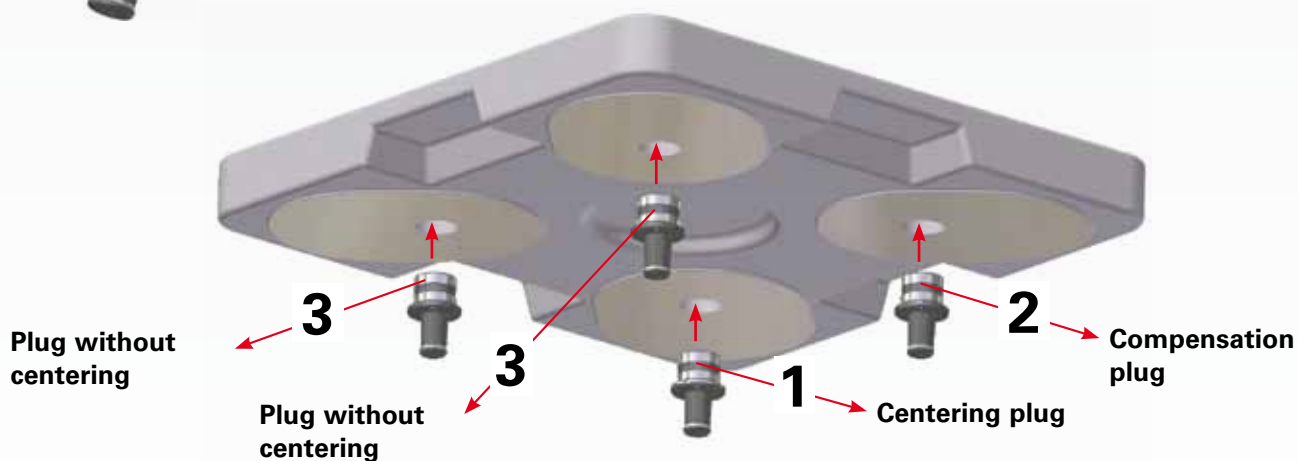
The centering plug defines the zero-point.
It centers with the diameter.



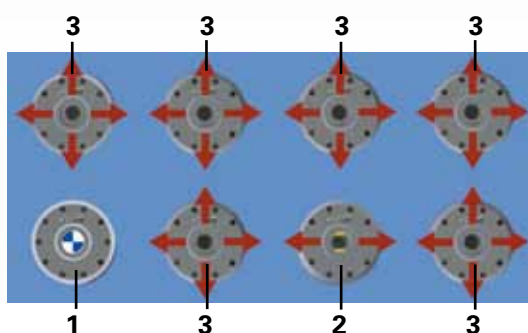
The compensation plug defines the X- or Y-axis.
The cam line must be set 90° to the line connecting with the centering plug. Compensates for variations in temperature.



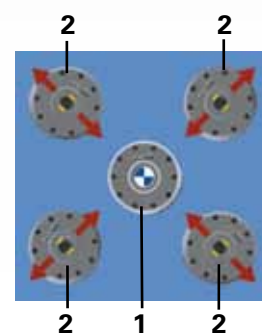
Plugs without centering only serve for clamping



1 The centering plug defines the zero-point.



2 The compensation plug defines the X- or Y-axis.

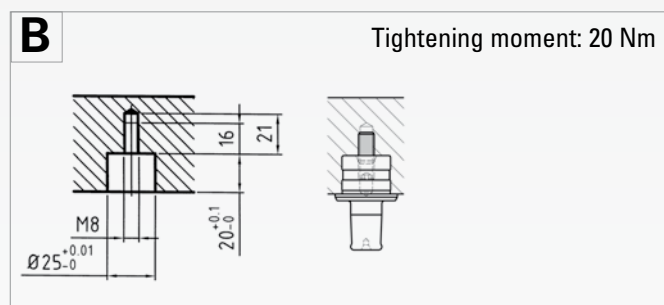
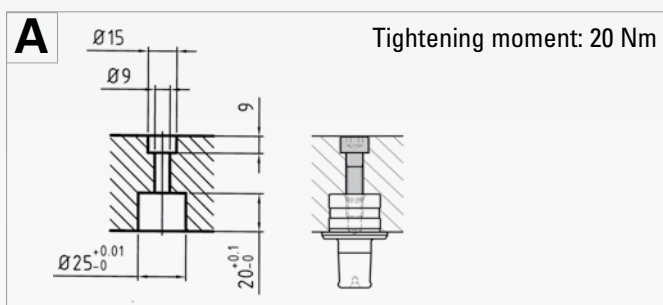


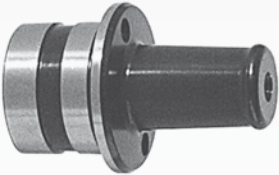
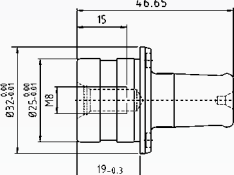
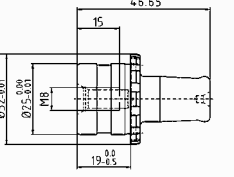
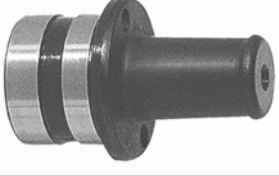
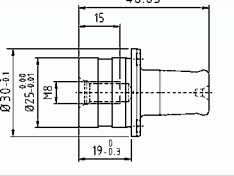
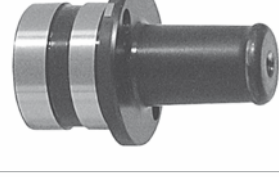
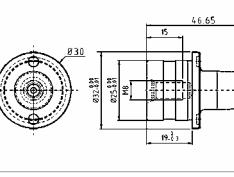
3 Plugs without centering only serve for clamping.

Plugs long

PZ 20

Plug fitting versions (preferably version A)

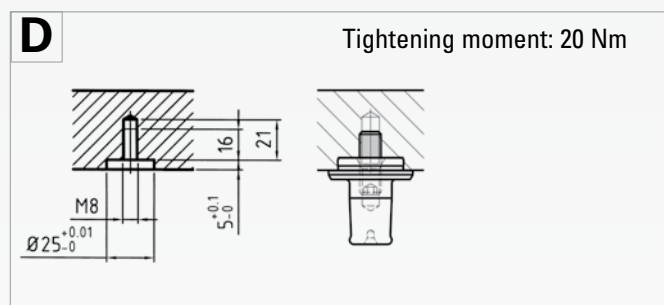
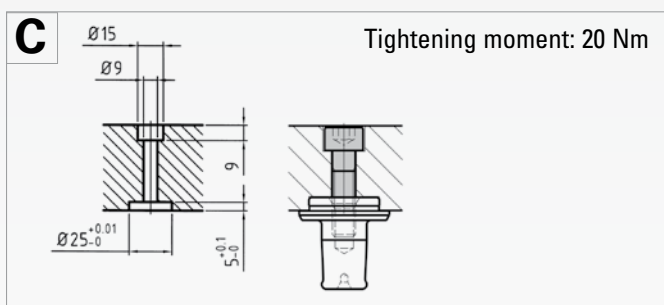


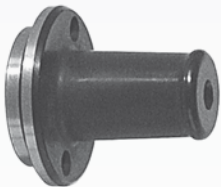
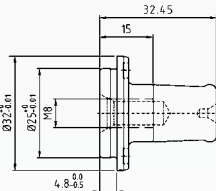
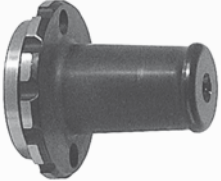
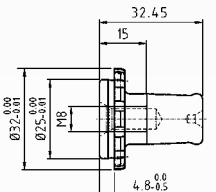
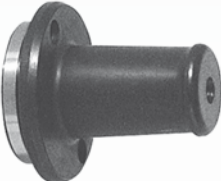
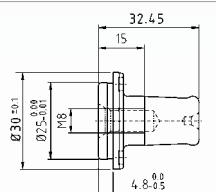
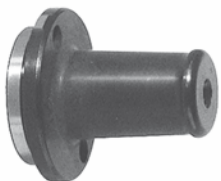
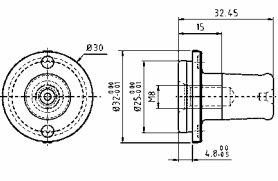
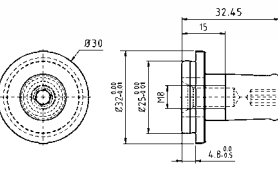
			without air-blast	with air-blast	fitting version A	fitting version B
PZ2500			x		x	x
PZ2504				x	x	x
PZ2510			x	x	x	x
PZ2520			x	x	x	x

Plugs short

PZ 20

Plug fitting versions (preferably version C)



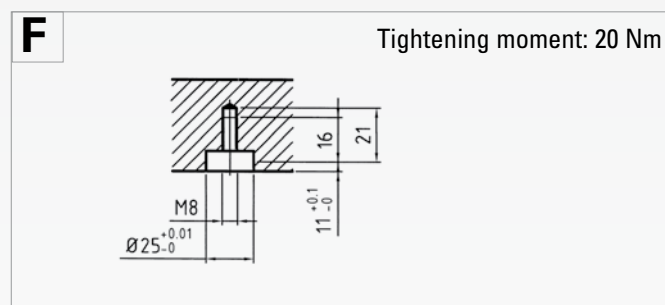
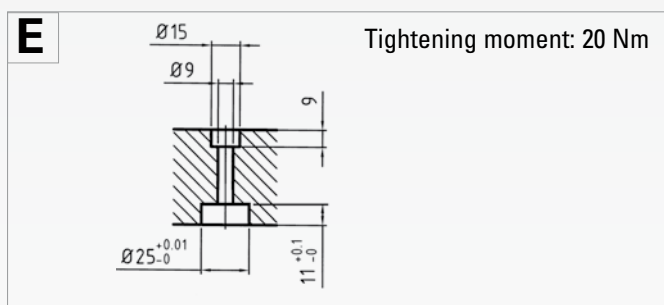
			without air-blast	with air-blast	fitting version C	fitting version D
PZ2502			x		x	x
PZ2505				x	x	x
PZ2512			x	x	x	x
PZ2522			x	x	x	x
PZ2523			x	x		x

Plugs

Special applications

PZ 20

Plug fitting versions (preferably version E)



			without air-blast	with air-blast	fitting version A/B	fitting version C/D	fitting version E/F
PZ2515 Centering plug medium length e.g. for vises			x	x			x
PZ2516 Compensation plug medium length e.g. for vises			x	x			x
PZ2501 Oversize Centering plug long Bore size Ø 26 $0_{-0.01}^{+0}$ mm				x	x		
PZ2503 Oversize Centering plug short Bore size Ø 26 $0_{-0.01}^{+0}$ mm				x		x	

Special fitting of plugs

PZ1552



Stud screw to clamp
DockLock plug into
M10 blind hole

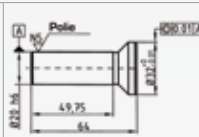
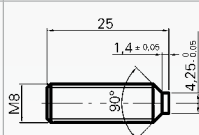
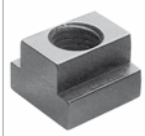
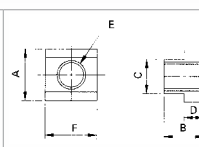
PZ1548

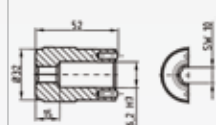
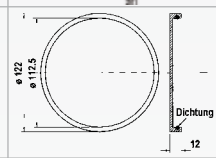
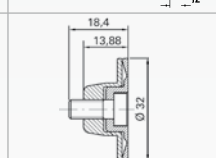
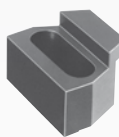
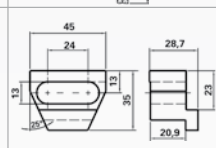
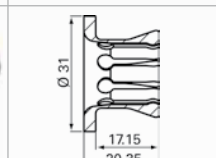
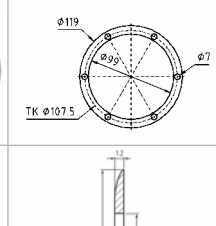
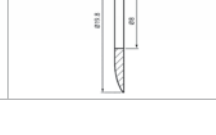


Stud screw to clamp
DockLock plug into
M12 blind hole

Accessories

PZ 20

PZ1590 Setup plug for built-up cylinder		
PZ1550 stud bolt M8 x 30 for blind hole mounting of plugs		
PZ1580 Indexing set-screw M8 (12.9) hardened, for Mini basic pallet PZ1601		
PZ1551 Socket head screw M8 x 25 (12.9) for through hole plug mounting		
PZ199. Brass coverdisc		
PZ1998 $\varnothing 10,5 \pm 0,05$ mm thickness 1 mm		
PZ1999 $\varnothing 8,55 \pm 0,10$ mm thickness 1 mm		
Swarf protection of counterbores on QUIRI units. Attention: most important for automated applications Fitting: fit flush by using a plastic faced hammer Removal: Strike the center with a small punch and pull out with a scriber or similar tool.		
775 ... T-Slot Nuts		
	A B C D E F kg	
775 PT06 1412	22,0 16,0 13,8 8,0 M12 28 0,048	
775 PT06 1816	28,0 20,0 17,7 10,5 M16 30 0,085	

PZ1570 Mounting adapter for plugs		
PZ1159 Aluminium cover		
PZ2534 Cover plug		
PZ1172 Bracket		
PZ1175 Socket head screw M12 x 35 to bracket PZ1 172		
PZ2 00090 Collet		
PZ1 00094 circular spring		
PZ1 00091 Circlip		
PZ2165K Spacers used to compensate height variations on flanged cylinder cavities PZ 20. Thickness 2 mm		
PZ2004-1.2 Washer for inclined lifting		

Zero-point clamping

QUIRI Point
Zéro

PZ 30

Pull-in force per unit: 20'000 N
Retention force per unit: 60'000 N

Flanged cylinders

Page 22 – 23

Built-up cylinders

Page 24

Plugs

Page 25 – 26

Accessories

Page 27



QUIRI Point Zero **PZ 30**

Flanged cylinders

for direct integration into machine tables, pallets and fixtures

PZ 30

pull-in force: 20'000 N

retention force: 60'000 N

PZ2172

PZ2172 U

PZ2172 L

PZ2172 LU

Standard

with rearside media connection

with air-blast cleaning

with air-blast cleaning and

rear side media connection

PZ2172 I

PZ2172 LI

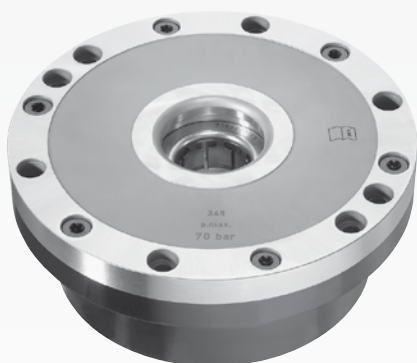
with indexing grooves

with air-blast cleaning and

indexing grooves

PZ2172 LIU

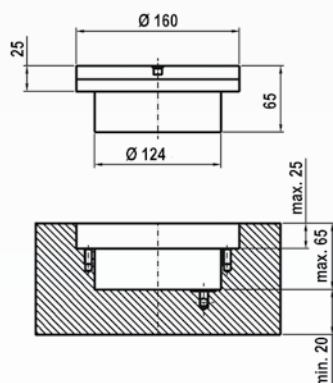
with air-blast cleaning, indexing grooves and rear side media connection



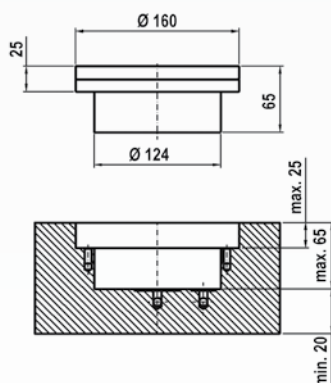
Indexing grooves

Pallets and indexing set screws see page 52

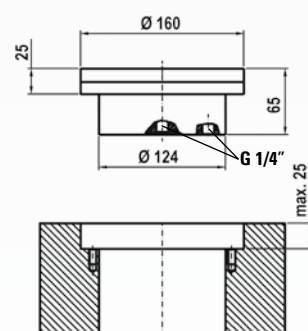
**PZ2172
PZ2172I**



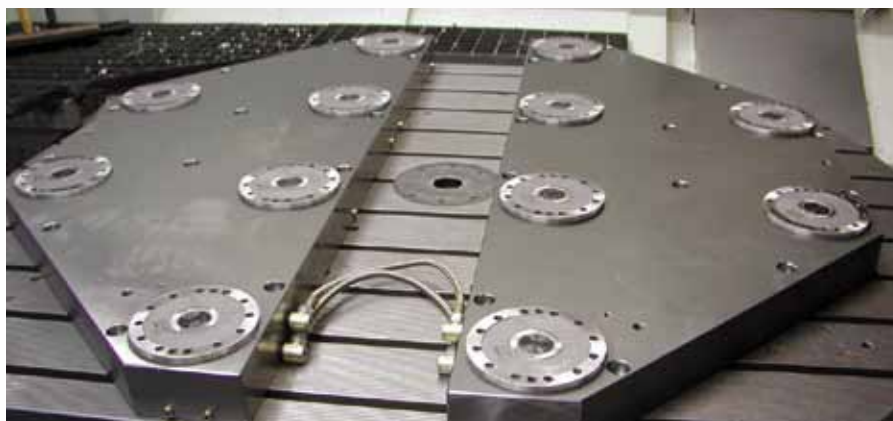
**PZ2172 L
PZ2172 LI**



**PZ2172 LU
PZ2172 LIU**



Max. operating pressure 70 bar.



QUIRI^{Point}_{Zéro} PZ 30 Slim Line

Flanged cylinders

for direct integration into machine tables, pallets and fixtures

PZ 30

pull-in force: 16'000 N

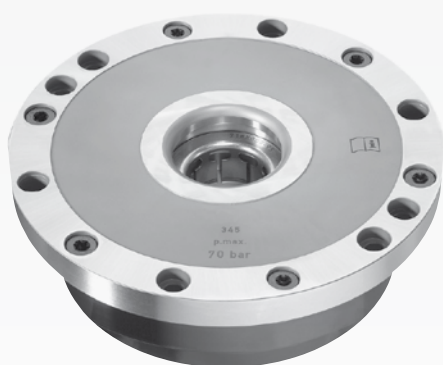
retention force: 50'000 N

PZ2176

Standard

PZ2176 I

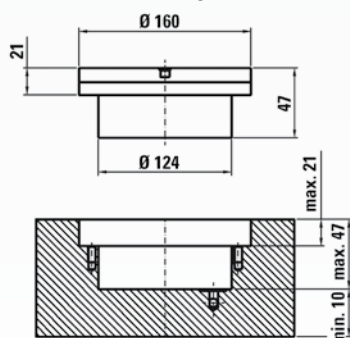
with indexing grooves



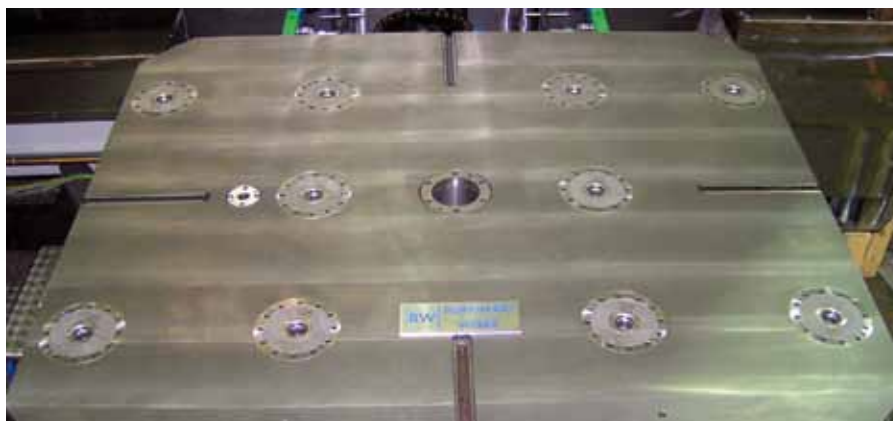
Indexing grooves

Pallets and indexing set screws see page 52

**PZ2176
PZ2176 I**



Max. operating pressure 70 bar.



QUIRI Point Zero **PZ 30**

Built-up cylinders for flexible configuration

PZ 30

pull-in force: 20'000 N

retention force: 60'000 N

**PZ2178
PZ2178 L**

Standard
with air-blast cleaning

**PZ2178 I
PZ2178 LI**

with indexing grooves
with air-blast cleaning and
indexing grooves



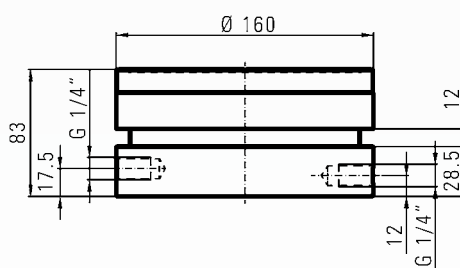
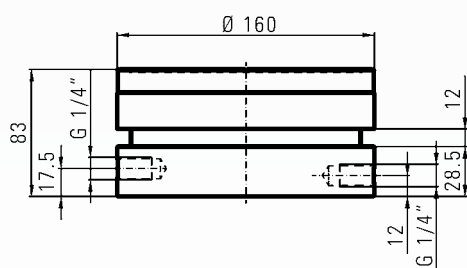
**PZ2178
PZ2178 I**



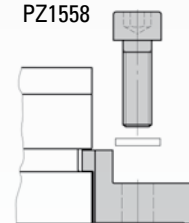
**PZ2178 L
PZ2178 LI**

Indexing grooves

**Pallets and
indexing
set screws
see page 52**

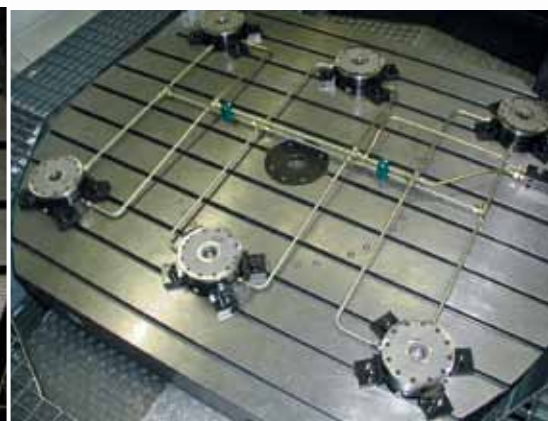
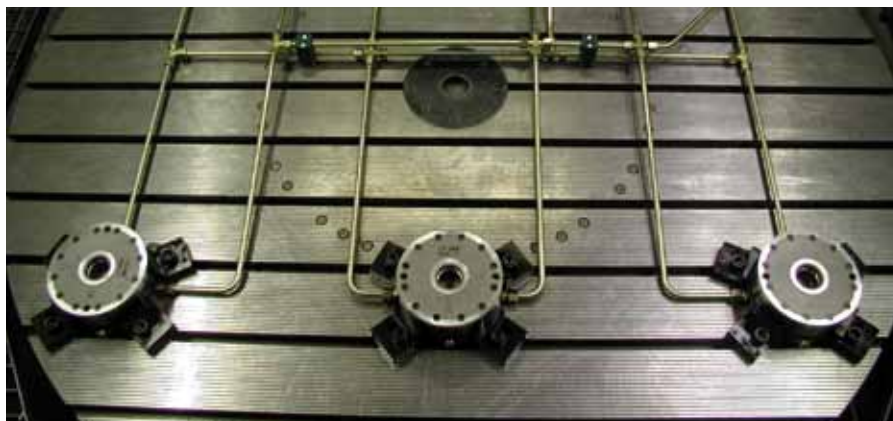


Socket head screw
M16x60
PZ1558



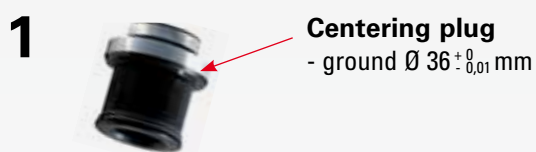
**Bracket
PZ3170**

Max. operating pressure 70 bar.

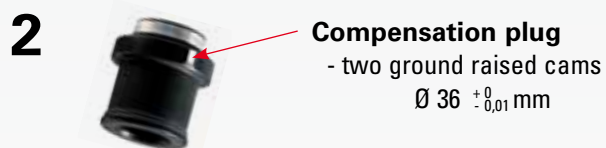


Plugs recommended plug arrangement

PZ 30



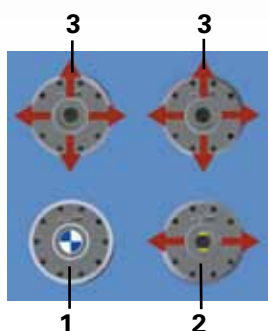
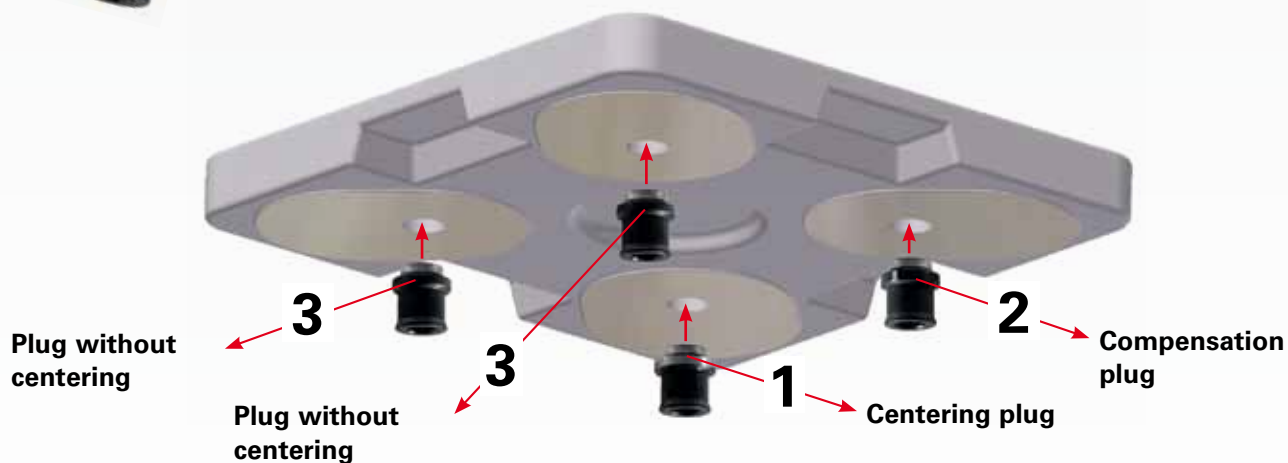
The centering plug defines the zero-point.
It centers with the diameter.



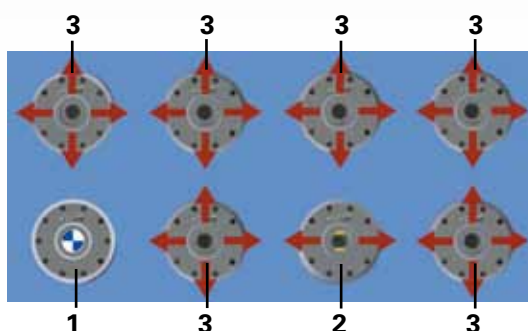
The compensation plug defines the X- or Y-axis.
The came line must be set 90° to the line connecting with
the centering plug. Compensates for variations in temperature.



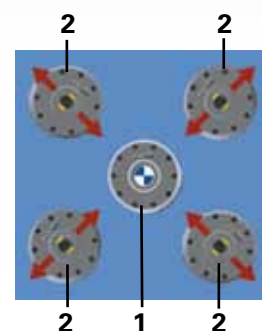
Plugs without centering only serve for clamping.



1 The centering plug
defines the zero-point.



2 The compensation plug defines the X-
or Y-axis.

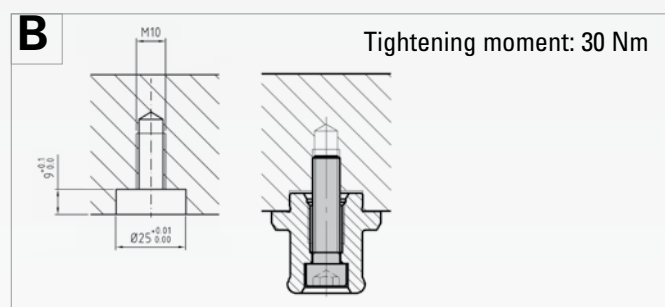
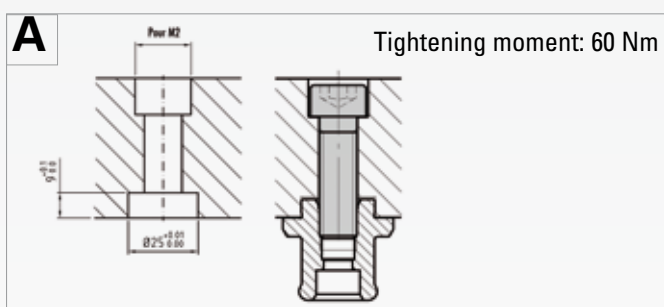


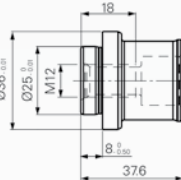
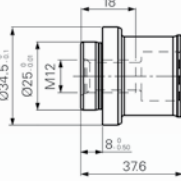
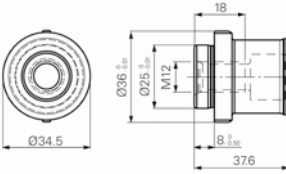
3 Plugs without centering only serve for
clamping.

Plugs

PZ 30

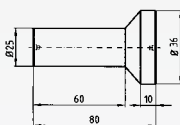
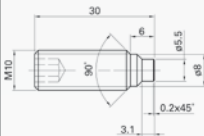
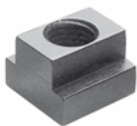
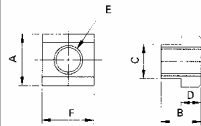
Plug fitting versions (preferably version A)

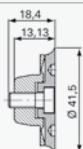
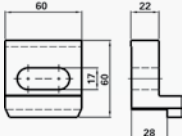
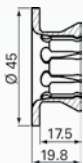
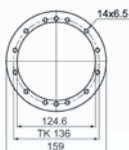
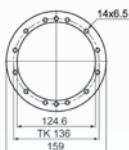


			without air-blast	with air-blast	fitting version A	fitting version B
PZ2702			x	x	x	x
PZ2712			x	x	x	x
PZ2722			x	x	x	x

Accessories

PZ 30

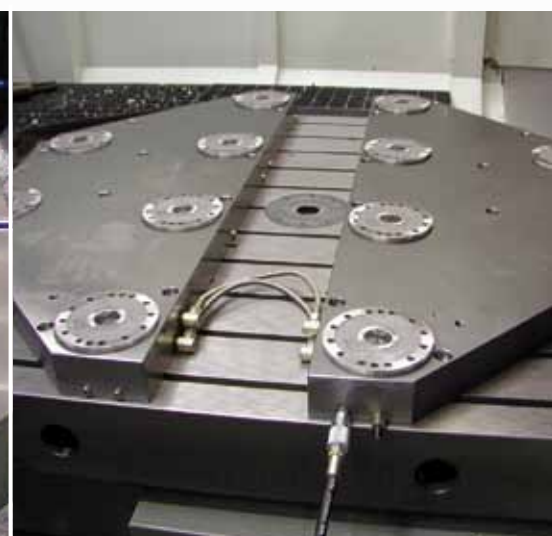
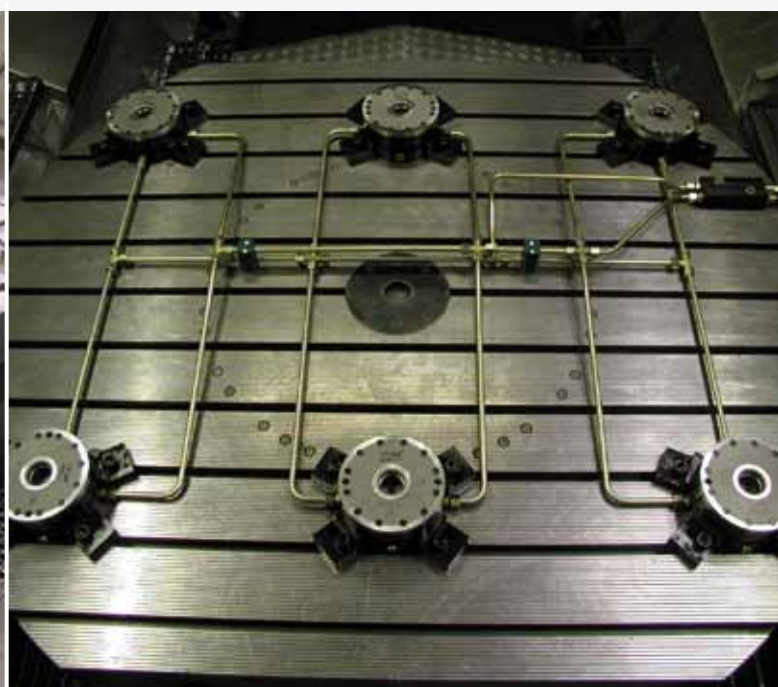
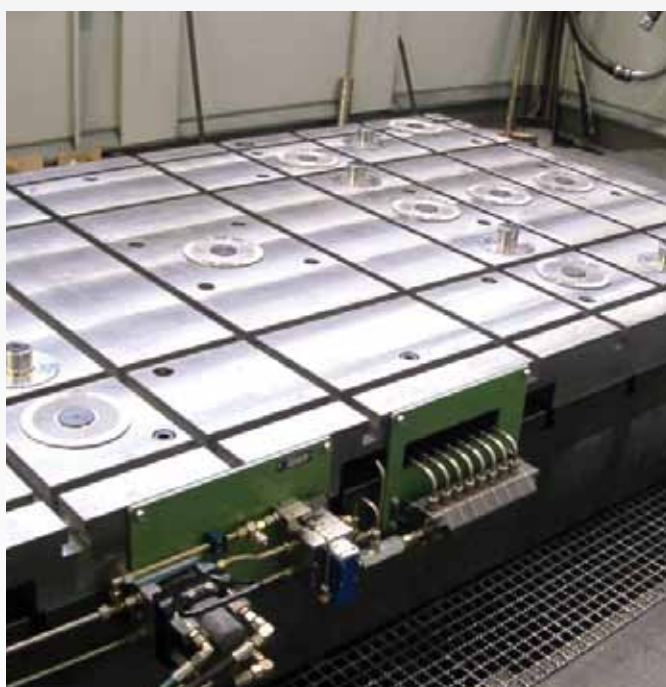
PZ2790 Setup plug for built-up cylinder							
PZ2551 Socket head screw M10 x 40 (12.9) for mounting plugs from underneath							
PZ3580 Indexing set-screw M10 (12.9) hardened, for Mini basic pallet PZ601							
PZ3551 Socket head screw M12 x 50 (12.9) for through hole plug mounting							
PZ1998 Brass coverdisc for							
PZ1998 $\varnothing 10,5 \pm 0,10$ mm thickness 1 mm							
Swarf protection of counterbores on QUIRI units. Attention: most important for automated applications Fitting: fit flush by using a plastic faced hammer Removal: Strike the center with a small punch and pull out with a scriber or similar tool.							
775 ... T-Slot Nuts							
	A	B	C	D	E	F	kg
775 PT06 1412	22,0	16,0	13,8	8,0	M12	28	0,048
775 PT06 1816	28,0	20,0	17,7	10,5	M16	30	0,085

PZ3555 Socket haed screw M6 x 30 low head for flange mounting		
PZ2734 Cover plug		
PZ3170 Bracket		
PZ3552 Socket head screw M16 x 54 to bracket PZ3170		
PZ2 00095 Collet		
PZ2 00094 circular spring		
PZ2168 Spacers used to compensate height variations on flanged cylinder cavities PZ 30. Thickness 2 mm		
PZ2006-1 Washer for inclined lifting		

QUIRI Point
Zéro **PZ 30**

Examples

PZ 30



Zero-point clamping

QUIRI Point
Zéro

PZ 50

Pull-in force per unit: 30'000 N
Retention force per unit: 90'000 N

Flanged cylinders

Page 30

Built-up cylinders

Page 31

Plugs

Page 32 – 33

Accessories

Page 34



QUIRI Point Zero **PZ 50**

Flanged cylinders

for direct integration into machine tables, pallets and fixtures

PZ 50

pull-in force: 30'000 N

retention force: 90'000 N

PZ3172

PZ3172 U

PZ3172 L

PZ3172 LU

Standard

with rearside media connection

with air-blast cleaning

with air-blast cleaning and
rear side media connection

PZ3172 I

PZ3172 LI

with indexing grooves

with air-blast cleaning and
indexing grooves

PZ3172 LIU

with air-blast cleaning, indexing
grooves and rear side media connection

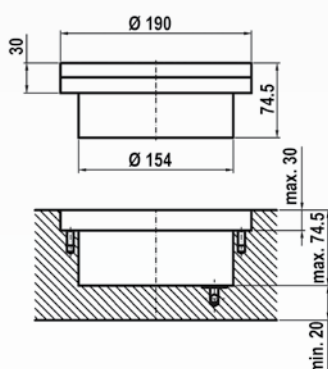


Indexing grooves

Pallets and
indexing
set screws
see page 52

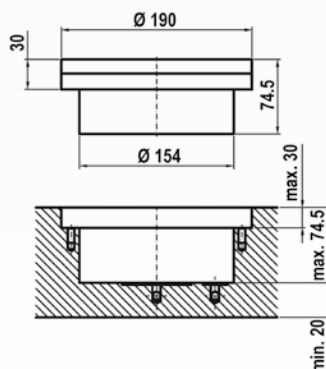
PZ3172

PZ3172 I



PZ3172 L

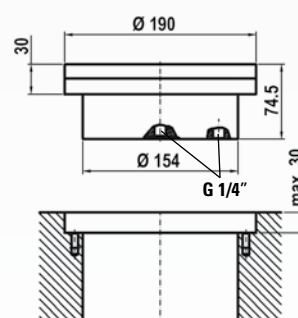
PZ3172 LI



PZ3172 U

PZ3172 LU

PZ3172 LIU



Max. operating pressure 70 bar.



QUIRI Point
Zero **PZ 50**

Built-up cylinders for flexible configuration

PZ 50

pull-in force: 30'000 N

retention force: 90'000 N

**PZ3178
PZ3178 L**

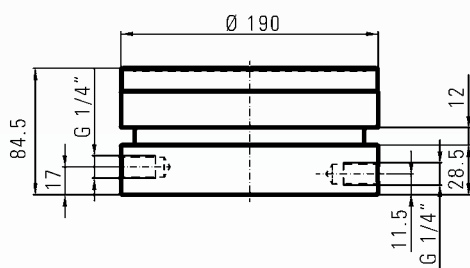
Standard
with air-blast cleaning

**PZ3178 I
PZ3178 LI**

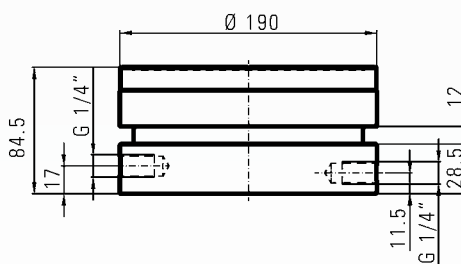
with indexing grooves
with air-blast cleaning and
indexing grooves



**PZ3178
PZ3178 I**



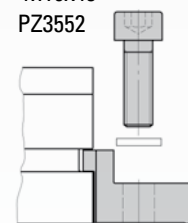
**PZ3178 L
PZ3178 LI**



Indexing grooves

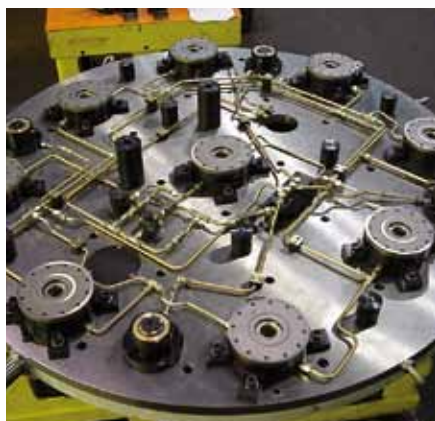
Pallets and
indexing
set screws
see page 52

Socket head screw
M16x45
PZ3552



Bracket
PZ3170

Max. operating pressure 70 bar.



Plugs recommended plug arrangement

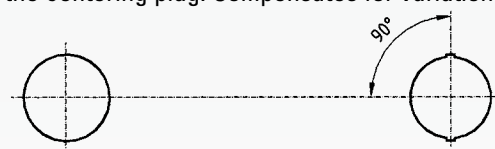
PZ 50

1 **Centering plug**
- ground $\varnothing 48 \pm 0,01$ mm

The centering plug defines the zero-point.
It centers with the diameter.

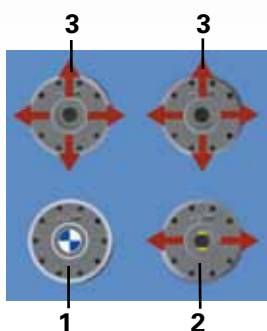
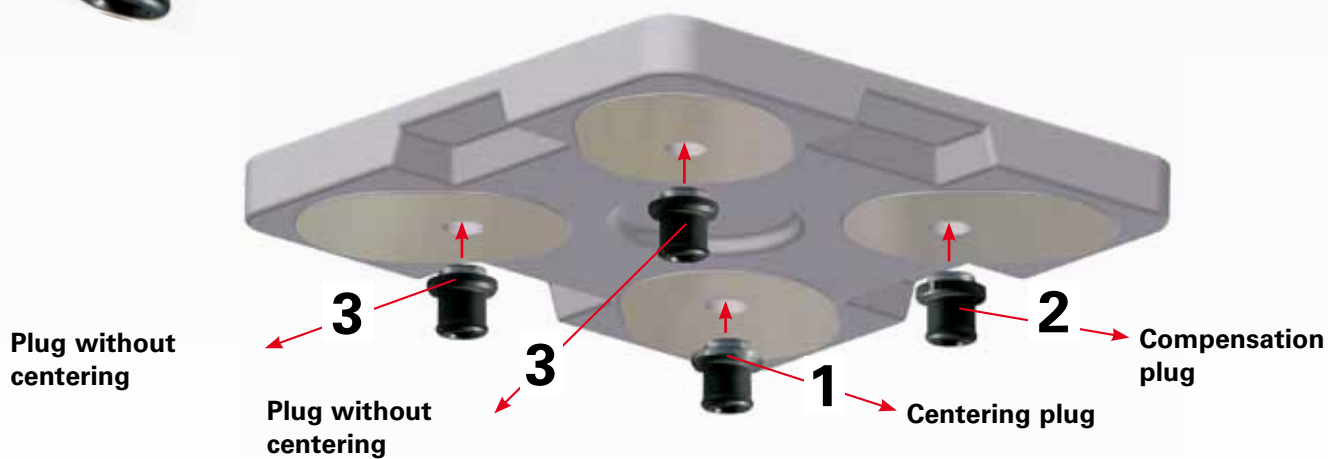
2 **Tirette dépincée**
- two ground raised cams
 $\varnothing 48 \pm 0,01$ mm

The compensation plug defines the X- or Y-axis.
The came line must be set 90° to the line connecting with the centering plug. Compensates for variations in temperature.

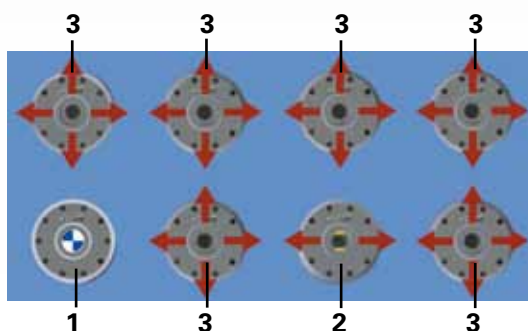


3 **Plug without centering**
- $\varnothing 46,5 \pm 0,1$ mm

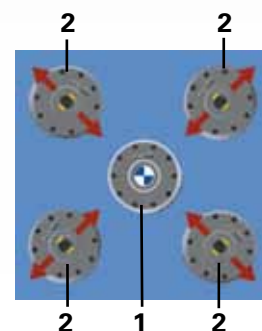
Plugs without centering only serve for clamping



1 The centering plug defines the zero-point.



2 The compensation plug defines the X- or Y-axis.

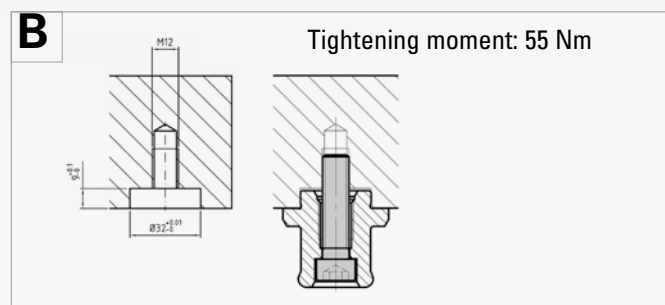
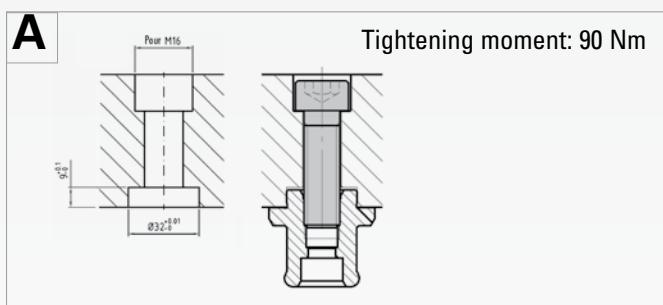


3 Plugs without centering only serve for clamping.

Plugs

PZ 50

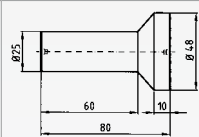
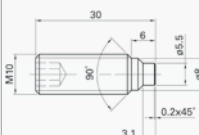
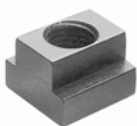
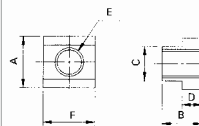
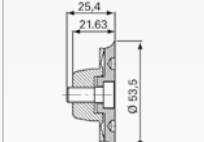
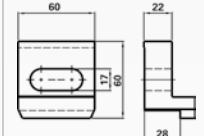
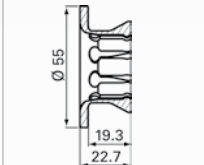
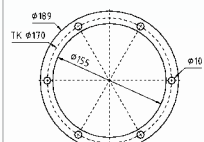
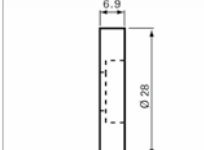
Plug fitting versions (preferably version A)



			without air-blast	with air-blast	fitting version A	fitting version B
PZ3702			x	x	x	x
PZ3712			x	x	x	x
PZ3722			x	x	x	x

Accessories

PZ 50

PZ3591 Set up plug for built-up cylinder		
PZ3551 Socket head screw M12 x 50 (12.9) for mounting plugs from underneath		
PZ3580 Indexing set screw M10 (12.9) hardened for basic indexing pallet PZ3601		
PZ3998 Brass cover disc PZ3998 $\varnothing 13,5 \pm 0,05$ mm thickness 1 mm		
Swarf protection of counterbores on QUIRI units. Attention: most important for automated applications Fitting: fit flush by using a plastic faced hammer Removal: Strike the center with a small punch and pull out with a scriber or similar tool.		
775 ... T-slot Nuts		
	A B C D E F kg	
775 PT06 1816	28,0 20,0 17,7 10,5 M16 30 0,085	
775 PT06 2016	32,0 20,0 19,0 11,9 M16 30 0,098	
PZ3556 Socket head screw M8 x 40 low head for flange mounting		
PZ3159 Aluminium cover		
PZ3534 Cover plug		
PZ3170 Bracket		
PZ3552 Socket screw M16 x 45 for bracket PZ3170		
PZ3 00095 Collet		
PZ3 00094 circular spring		
PZ3165 Spacers used to compensate height variations on cavities for flanged cylinders PZ 50. Thickness 3 mm		
PZ3023-1 Washer for inclined lifting		

Zero-point clamping

QUIRI Point
Zéro

PZA 30

Pull-in force per unit: 20'000 N
Retention force per unit: 60'000 N

**Automated manufacturing with the
highest degree of security!**

Flanged cylinders

Plugs

Accessories

Page 36

Page 37

Page 38 – 39

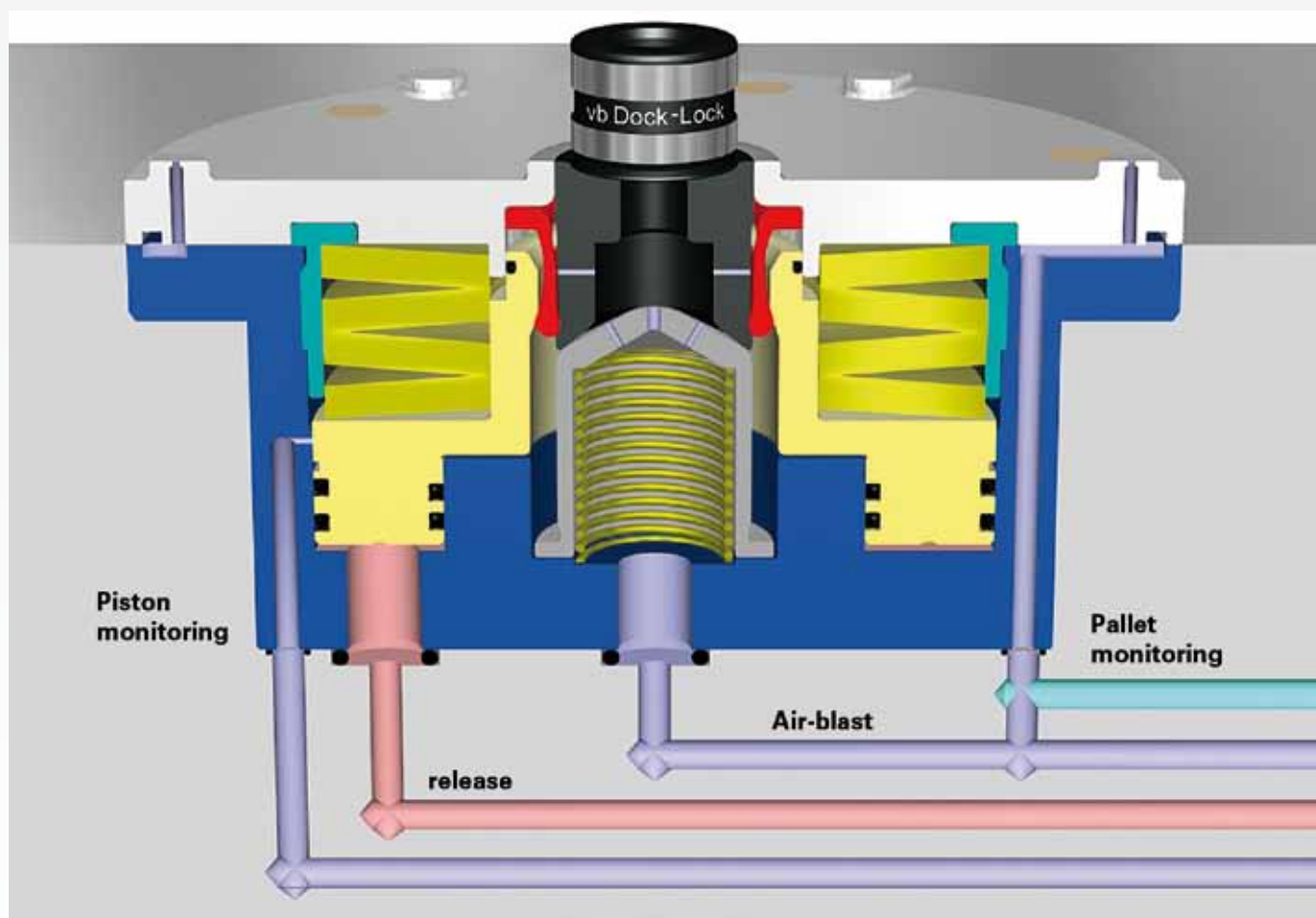
Page 40



QUIRI^{Point}_{Zéro} PZA 30

Automated manufacturing with the highest degree of security!

PZA 30



The PZA Series are representing a veritable break-through for the automation of zero-point workholding

- total protection from dirt by automatical sealing of the collet lock *1.
- air-blast cleaning from swarf and coolant through the center *2 and support isles *3.
- absolut operational security by monitoring of piston position and isle surfaces.
- pre-locking effect of the collet, important on vertical arrays.
- form-fit connection between the patented collet lock and the plugs through large contact area.
- the pre-centering of the plug facilitates the automated loading.
- accessible from the top makes for easy servicing.

QUIRI Point
Zero **PZA 30**

Flanged cylinders

Maximal safety in automatic
production!

PZA 30

pull-in force: 20'000 N

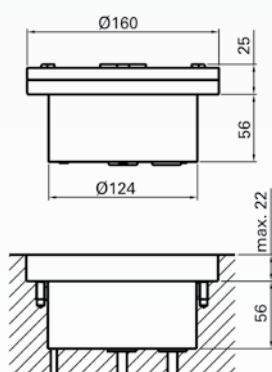
retention force: 60'000 N

PZ2170-31 LAK with air-blast cleaning through center,
and support isles, pneumatic support
control for isles, hydraulic piston
position monitoring

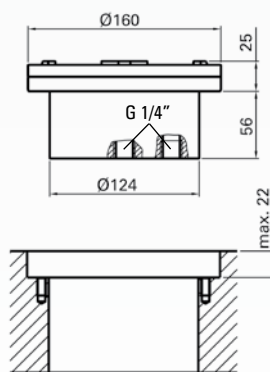
PZ2170-31 LAUK with air-blast cleaning through center,
and support isles, pneumatic support
control for isles, hydraulic piston
position monitoring, rear side media
connection



PZ2170-31 LAK



PZ2170-31 LAUK



Max. operating pressure 70 bar (max. 95 bar)



Plugs

recommended plug arrangement

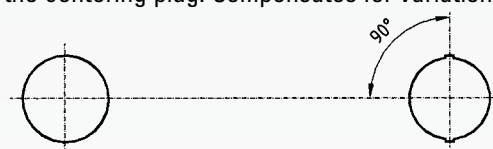
PZA 30

- 1**  **Centering plug**
- ground $\varnothing 30 \pm 0,01$ mm

The centering plug defines the zero-point.
It centers with the diameter.

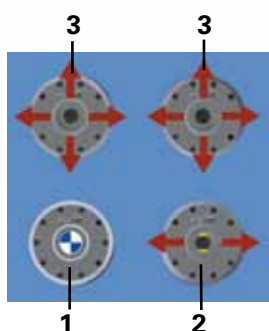
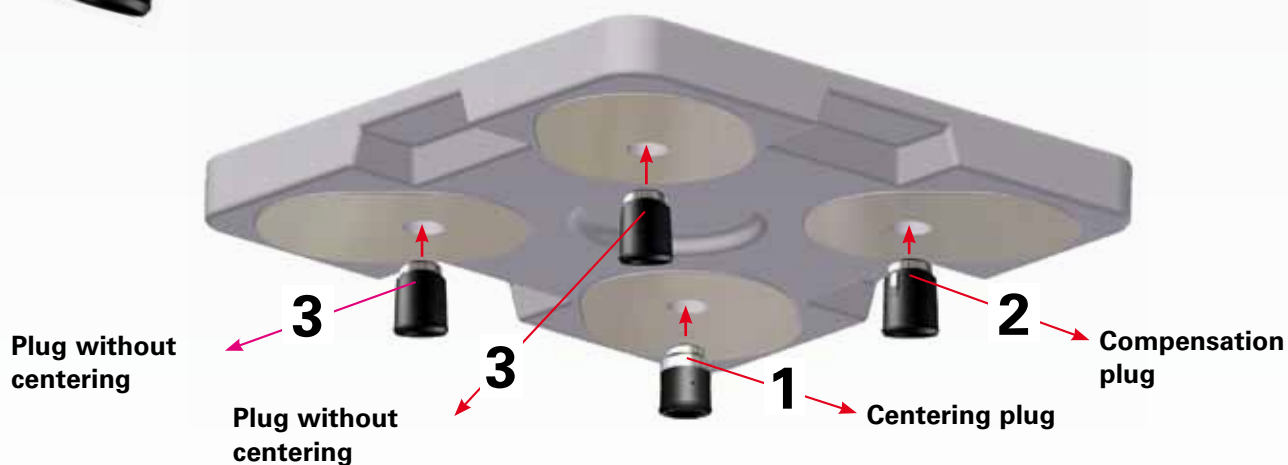
- 2**  **Tirette dépincée**
- two ground raised cams
 $\varnothing 30 \pm 0,01$ mm

The compensation plug defines the X- or Y-axis.
The came line must be set 90° to the line connecting with the centering plug. Compensates for variations in temperature.

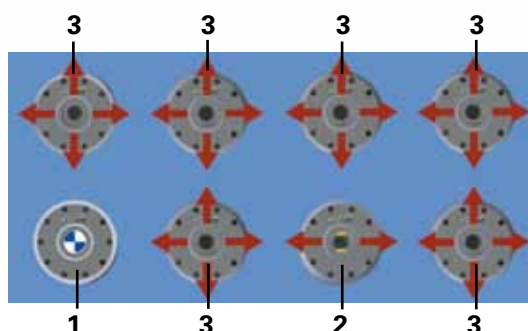


- 3**  **Plug without centering**
- $\varnothing 28,9 \pm 0,05$ mm

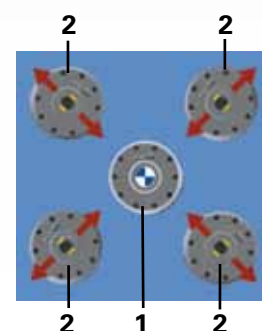
Plugs without centering only serve for clamping.



1 The centering plug defines the zero-point.



2 The compensation plug defines the X- or Y-axis.

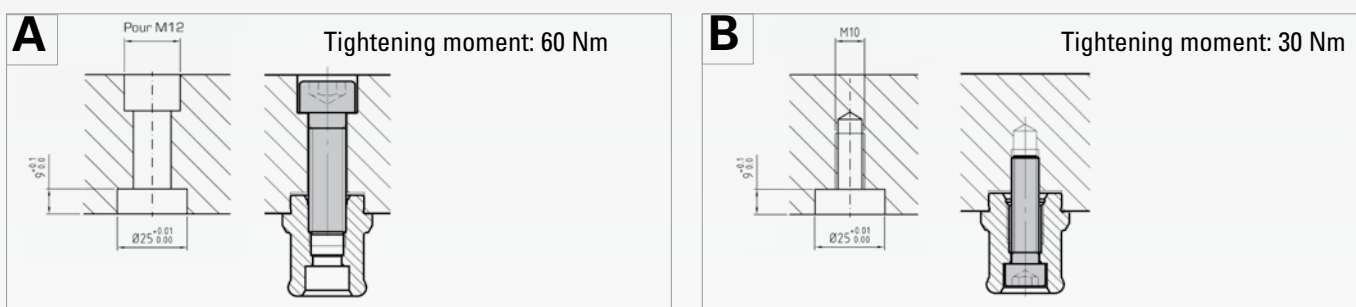


3 Plugs without centering only serve for clamping.

Plugs

PZA 30

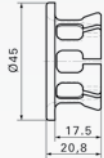
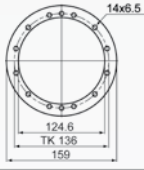
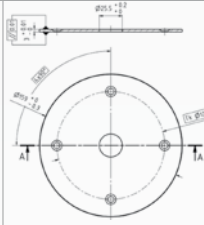
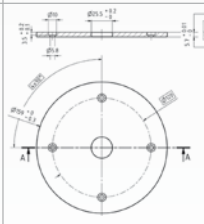
Plug fitting versions (preferably version A)



			without air-blast	with air-blast	fitting version A	fitting version B
PZ2704 Centering plug			x	x	x	x
PZ2714 Plug without centering			x	x	x	x
PZ2724 Compensation plug			x	x	x	x
PZ2705 Centering plug <i>long version</i>			x	x	x	x
PZ2715 Plug without centering <i>long version</i>			x	x	x	x
PZ2725 Compensation plug <i>long version</i>			x	x	x	x

Accessories

PZA 30

PZ3551 Socket head screw M12 x 50 (12.9) for mounting plugs from underneath		
PZ1998 Brass cover disc PZ1998 $\varnothing 10,5 \pm 0,10$ mm thickness 1 mm		
Swarf protection of counterbores on QUIRI units. Attention: most important for automated applications Fitting: fit flush by using a plastic faced hammer Removal: Strike the center with a small punch and pull out with a scribe or similar tool.		
PZ3555 Socket head screw M6 x 30 low head for flange mounting (6 pieces per cylinder)		
PZ1557 Socket head screw M6x25 low head for flange mounting (2 pieces per cylinder)		
PZ200095-AS Collet PZ2 00094 circular spring		
PZ2168 Spacers used to compensate height variations on cavities for flanged cylinders PZA Thickness 2 mm		
PZ2540 Supporting hardened Thickness 3 mm (at plug PZ2704, PZ2714, PZ2724)		
PZ2541 Supporting hardened Thickness 6 mm (at plug PZ2705, PZ2715, PZ2725)		

Notes



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