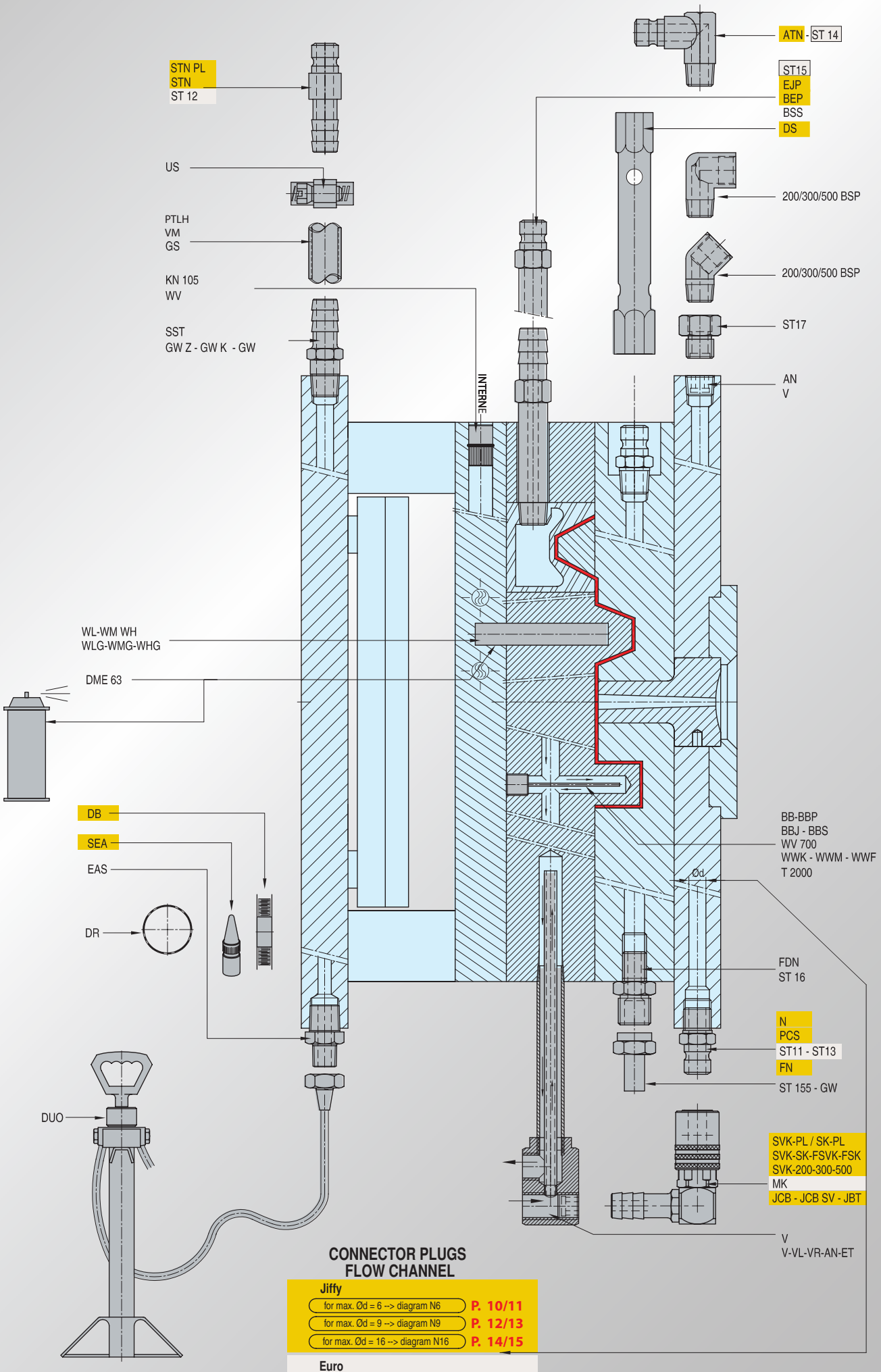
DME

EVERY STEP OF THE WAY

Mold Cooling



CONNECTOR PLUGS FLOW CHANNEL

Jiffy

for max. Ød = 6 --> diagram N6 — P. 10/11
for max. Ød = 9 --> diagram N9 — P. 12/13
for max. Ød = 16 --> diagram N16 — P. 14/15

Euro

for max. Ød = 6 --> diagram 9 — P. 30/31
for max. Ød = 9 --> diagram 13 — P. 32/33

DME Jiffy Series

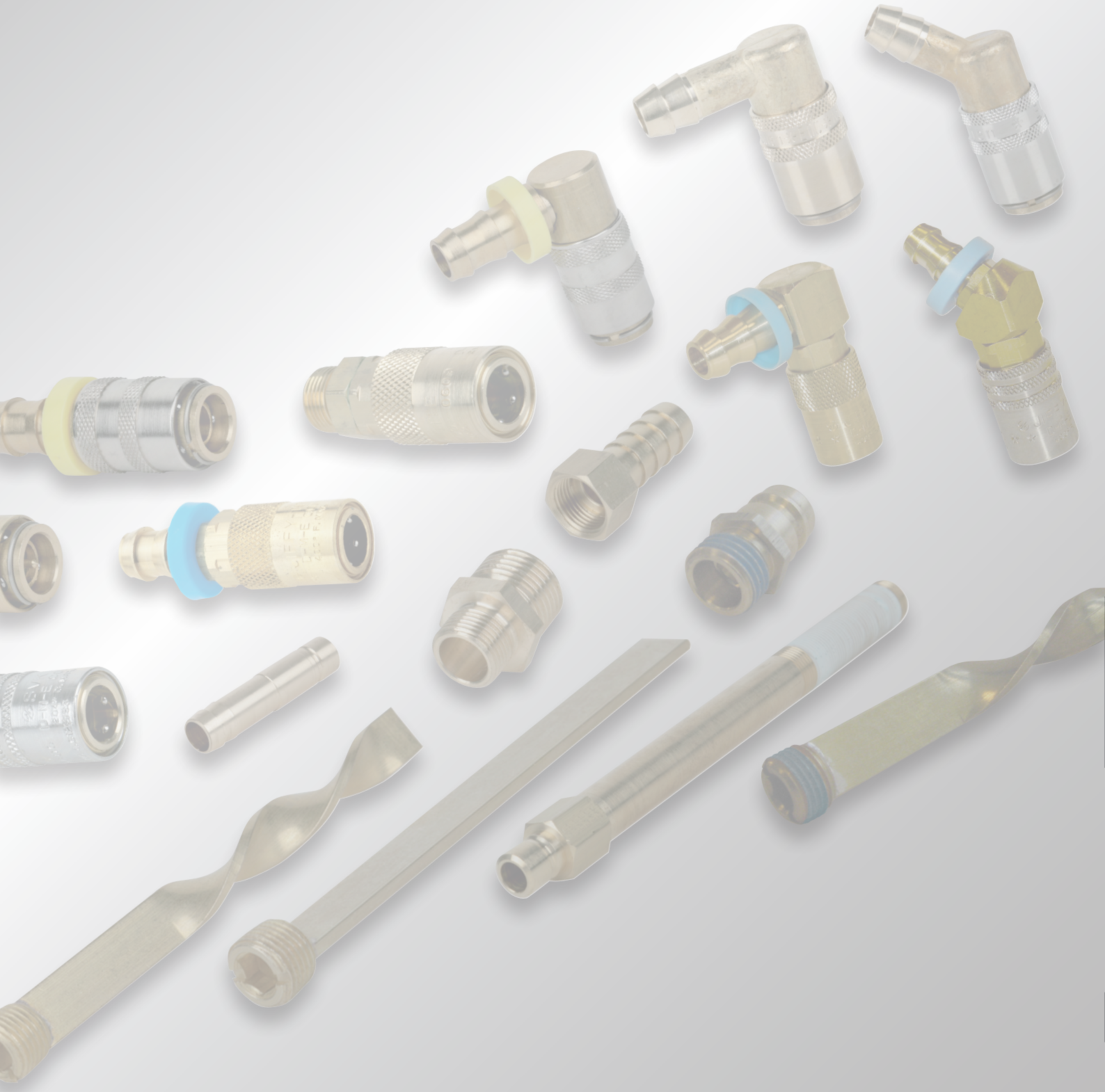
Euro Series

Accessories

Technical Data

CAD reference point

18/09/2012



EVERY STEP OF THE WAY

DME Standard - Jiffy-Tite Connectors

DME Jiffy-Tite plugs used with ***DME*** Jiffy-Tite (flow-through) type sockets and ***DME*** Jiffy-Matic (automatic shut off type) sockets are designed for use with plastics molds and die cast dies in water, air or oil lines. They feature a combination brass and stainless steel leak proof construction; have a maximum rated capacity of 13 bar and withstand temperatures of up to 200°C with supplied Viton seals. ***DME*** Jiffy-Tite and Jiffy-Matic sockets can be used interchangeably with the same Jiffy-Tite plugs already in your mold or die. Comparable sizes of both type sockets have the same OD permitting interchangeability even when the plugs are flush mounted. Seals and hose barbs are easily replaceable saving cost.

Jiffy Tite Range

The Jiffy-Tite plugs and sockets provide a quick connect & disconnect method of changing heating & cooling hoses to the mold, as well as, from water manifolds or supply source. It is important to cool the mold so that the plastic material cools as quickly as possible to set up the part sufficiently so that it can be ejected from the mold as quick as possible for short cycle time. This helps to maintain part appearance & flow of material. Countersunk plugs can easily be connected and disconnected because of the extended sleeve. The angular connections prevent kinks from forming in the hose.

Working Pressure
PB = 13 bar, maximum static working pressure with safety factor 4 to 1.

Working Temperature*
-15°C up to +200°C depending on the medium.

Advantages

Available in single shut-off, double shut-off or straight-through versions. The shut-off couplings (with valve) are equipped with nickel plated sleeves for quick and accurate visual differentiation.

Couplings foreseen with the Replaceable Viton® Seal. Easy to change with Seal Removal Tool for customers benefit. They are known for their larger flow through-holes what results in more flow, faster cycle times and greater cooling. Jiffy-Seal® Pre-applied Thread Sealant on all male nipples

Material Coupling

Back Body	Brass
Valve Body	Brass
Sleeve	Brass (without Valve)
Sleeve	Brass, Nickel Plated (with valve)
Valve	Brass
Locking Balls	AISI 420
Seals	Viton®
Spring & Locking Rings	AISI 301

Plug

Plug Profile	Brass
Adapter	Brass
Valve	Brass
Spring and Locking Ring	AISI 301
Seal	Viton®

Safety instructions:

In the event of incorrect selection, incorrect and improper use, quick connect couplings and their accessories may cause damage to property and personal injury !

The consequences of incorrect selection, incorrect and improper use may be:
- Ends of hoses, coupling and plug components or accessories may fly around.
- Contact with fluids that are damaging to the health, toxic, cold or hot.
- Leakage of fluids under high pressure.
- Explosion or combustion of leaking fluids.
- Injuries and damage caused by uncontrolled movements of system parts through drop in fluid pressure.

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Operating Instructions

- Coupling with two-handed operation : Couplings is effected by pushing back the sleeve, and at the same time, pushing the connector into the coupling. During the coupling make sure that the connector is pushed into the coupling as far as it will go. When the maximum push-in position has been reached, the sleeve must be released and only then the connector. The sleeve must move towards the connector until it reaches the same initial position as before actuation. It is important to check whether the lock has snapped into place by pulling the connector.
- Caution ! Fluid may leak during coupling, especially with couplings that are under pressure. Make sure that any fluid that may leak under these circumstances does not create any hazard.
- When Uncoupling without the built in valve (Jiffy-Tite®), it is essential that the fluid should be shut off before uncoupling. Uncoupling is affected by pushing back the sleeve. The coupling valve shuts off any further fluid supply, and at the same time the connector is pressed out of the coupling by the remaining fluid pressure and the valve spring. During uncoupling the connector must be firmly held in the hand in order to prevent it from spinning dangerously out of control.

Installation instructions

Before installation make sure that the selected quick coupling is suitable for the fluid to flow through it, with respect to its design , materials, seals, working pressure and working temperature.

- The installation location of the quick coupling or the connector must be in such a way that the operator cannot injure himself through dangerous locations in the direct vicinity, eg. slipping, jamming, contamination or burning
- When using hoses, the permissible operating pressure and temperature must not be exceeded. The hoses must be secured against slipping off the fittings with hose clamps.
- The recommended direction of flow is from the coupling to the connector, insofar as nothing else is specified.
- If no Jiffy-Seal® Thread sealant available the threads must be coated with suitable sealing agents such as PTFE tape.
- Covering caps and protected connectors are recommended for uncoupled connectors and couplings in order to prevent damage or contamination.

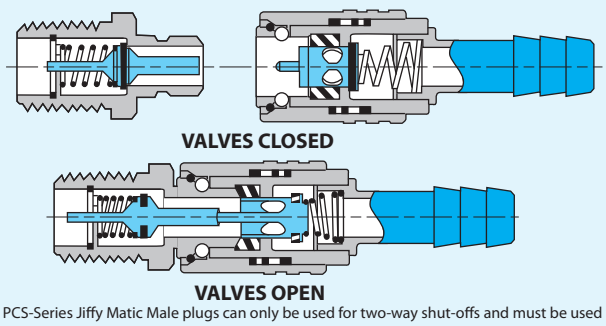
Maintenance Instructions

DME couplings are largely maintenance-free with standard applications and careful treatment, with the correct selection of coupling type and materials. We recommend a regular custom-made maintenance procedure, covering the following points:

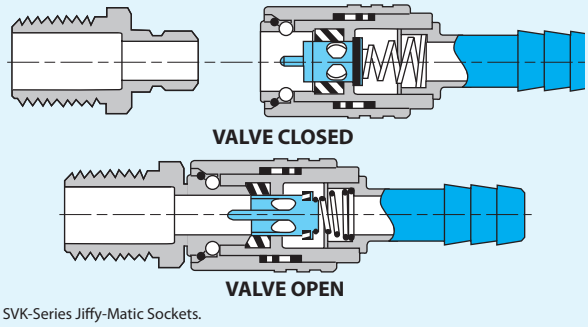
- External visual inspection of the ***DME*** coupling combination. In the event of dirt accumulation in the functional area of coupling and connector this must be cleaned. The following properties require replacement of the parts in question: torn, damaged, very dirty or corroded parts, leaks in clutch of connector parts.
- Replacement intervals for quick connect couplings or replacement of the Viton seal with the Jiffy Seal Removal Tool JSTK-235

Operating Combinations

PCS-Series male plugs with SVK-Series sockets (equivalent size)**



Std. male, female or extension plugs with SVK-Series sockets (equivalent size)



** The PCS-Series Jiffy Matic Male plugs can only be used for two-way shut-offs and must be used with the SVK-Series Jiffy-Matic Sockets.

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FLOW CHANNEL
max. Ød = 6

JCB

P.20 — JCB 0200 SV

PCS

P.11 — PCS6-14 A, PCS6-38 A

ATN

P.12 — ATN 9 — 1/8" BSPT

STN

P.13 — STN 9

EJP

P.12 — EJP 2514, EJP 2516, EJP 2518 — 1/8" BSP
EJP 2524, EJP 2526, EJP 2528 — 1/4" BSP
EJP 2534, EJP 2536 — 3/8"BSP
EJP 2538

N

P.10 — N6-1/8"A, N6-MA, N6-1/4"A, N6-3/8"A

BEP

P.13 — BEP-1810, BEP-1815, BEP-1825 — 1/8" BSPT

P.40 — VL 1/8"x50, VL 1/8"x100, VL 1/8"x150, VL 1/8"x200, VL 1/4"x50, VL 1/4"x100, VL 1/4"x150, VL 1/4"x200, VL 3/8"x100, VL 3/8"x150, VL 3/8"x200

VL

P.40 — ET 14050, ET 14100, ET 14150, ET 18050, ET 18100, ET 18150

ET

N

N6-1/8"I, N6-1/4"I, N6-3/8"I

P.11

P.37 — FDN 3814, FDN 3812 — 3/8", 1/2" — 1/4", 3/8"

FDN

P.37 — ST 16 R1/4", ST 16 R3/8" — 1/4", 3/8" — 1/4", 3/8"

ST 16

P.38 — ST 17 R1/4"-R1/8", ST 17 R3/8"-R1/4" — Rp 1/4", Rp 3/8" — Rp 1/8", Rp 1/4"

ST 17

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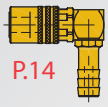
SVK

SVK-106
SVK-109
SVK-106-PL
SVK-109-PL

P.14

SVK

SVK-206
SVK-209
SVK-206-PL
SVK-209-PL



P.14

SVK

SVK-306
SVK-309
SVK-306-PL
SVK-309-PL

P.14

SVK

SVK-200

BSP 1/8"

P.16

FSVK

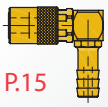
FSVK-106V

Rp 1/4"

P.16

SK

SK-206
SK-209
SK-206-PL
SK-209-PL



P.15

SK

SK-306
SK-309
SK-306-PL
SK-309-PL

P.15

SK

SK-200

BSP 1/8"

P.16

FSK

FSK-206V

Rp 1/4"

P.16

SK

SK-106
SK-109
SK-106-PL
SK-109-PL

P.15

JCB or JCB

JCB 0200
JCB 0200 SV

P.20

P.41

GS 1090 *

P.41

VM 200

P.34

PTLH

GS 1090
VM 200

Not for "Push-to-Lock"

For "Push-to-Lock"

Spare Parts

Accessories

BSS 1810
BSS 1815
BSS 1825

BSS

P.51

200-90 BSP

BSPT 1/8"

200/300-90°

BSP 1/8"

P.37

200-45 BSP

BSPT 1/8"

200/300-45°

BSP 1/8"

P.37

SST 12-1/8K

BSPT 1/8"

SST

P.39

US 1700

US 1700 2

P.42

US 1600

US 1600 4

P.42

US 1650

US 1650 4

P.42

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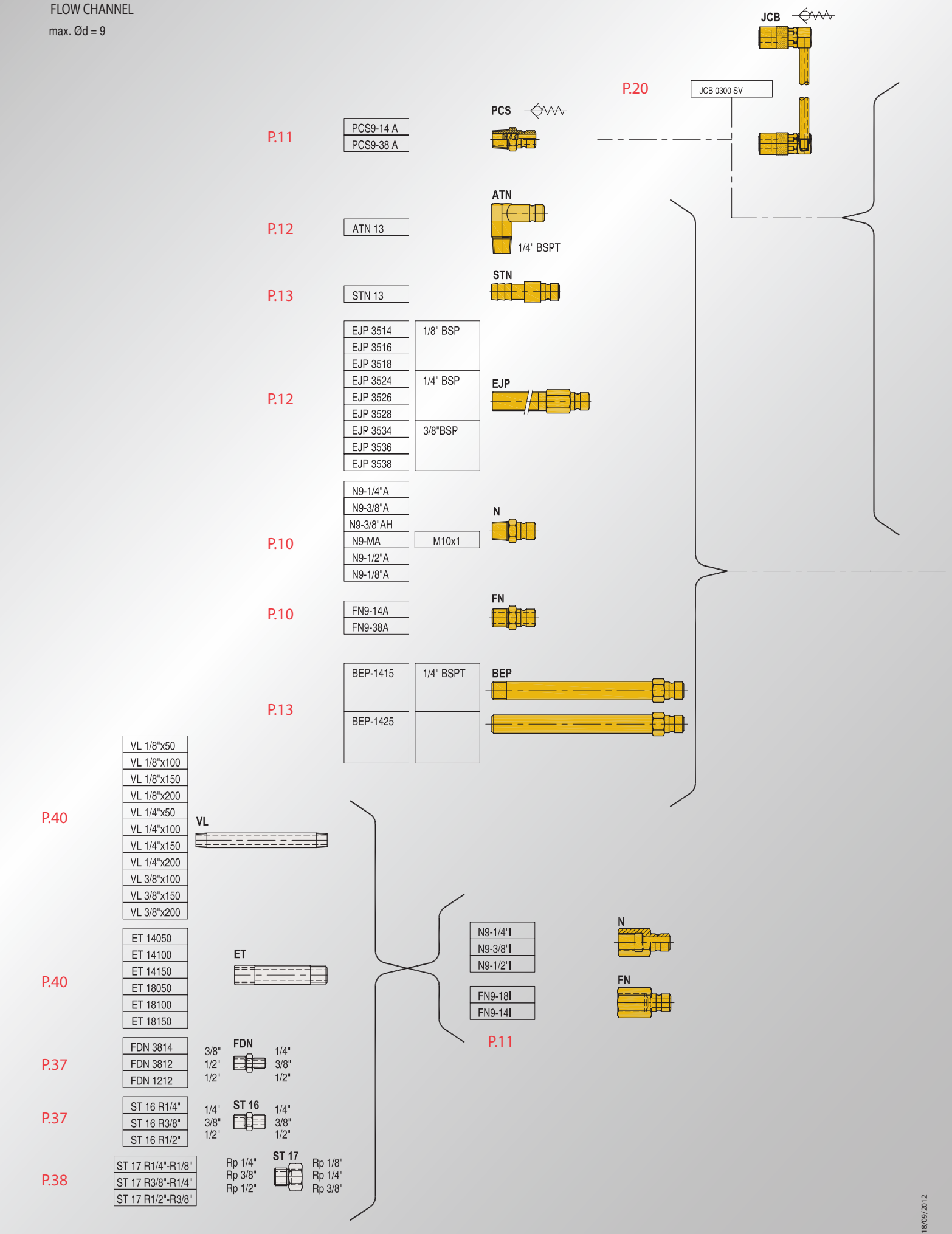
FLOW CHANNEL

max. Ød = 9



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SVK
- SVK-111
- SVK-113
- SVK-111-PL
- SVK-113-PL

P.14

SVK
- SVK-211
- SVK-213
- SVK-211-PL
- SVK-213-PL

P.14

SVK
- SVK-311
- SVK-313
- SVK-311-PL
- SVK-313-PL

P.14

SVK
- SVK-300

BSP 1/4"

P.16

FSVK
- FSVK-111V

Rp 3/8"

P.16

SK
- SK-211
- SK-213
- SK-211-PL
- SK-213-PL

P.15

SK
- SK-311
- SK-313
- SK-311-PL
- SK-313-PL

P.15

SK
- SK-300

BSP 1/4"

P.16

FSK
- FSK-211V

Rp 3/8"

P.16

SK
- SK-111
- SK-113
- SK-111-PL
- SK-113-PL

P.15

JCB or JCB
- JCB 0300
- JCB 0300 SV

P.20

Spare Parts

Accessories

BSS
- BSS 1415
- BSS 1425

P.51

200/300-90°
- 300-90 BSP

BSPT 1/4" — BSP 1/4"

P.37

200/300-45°
- 300-45 BSP

BSPT 1/4" — BSP 1/4"

P.37

SST
- SST 14-1/4K

BSPT 1/4"

P.39

US 1700
- US 1700 4

P.42

US 1600
- US 1600 6

P.42

US 1650
- US 1650 6

P.42

GS 1090
VM 200

Not for "Push-to-Lock"

P.41 GS 1090 13 *

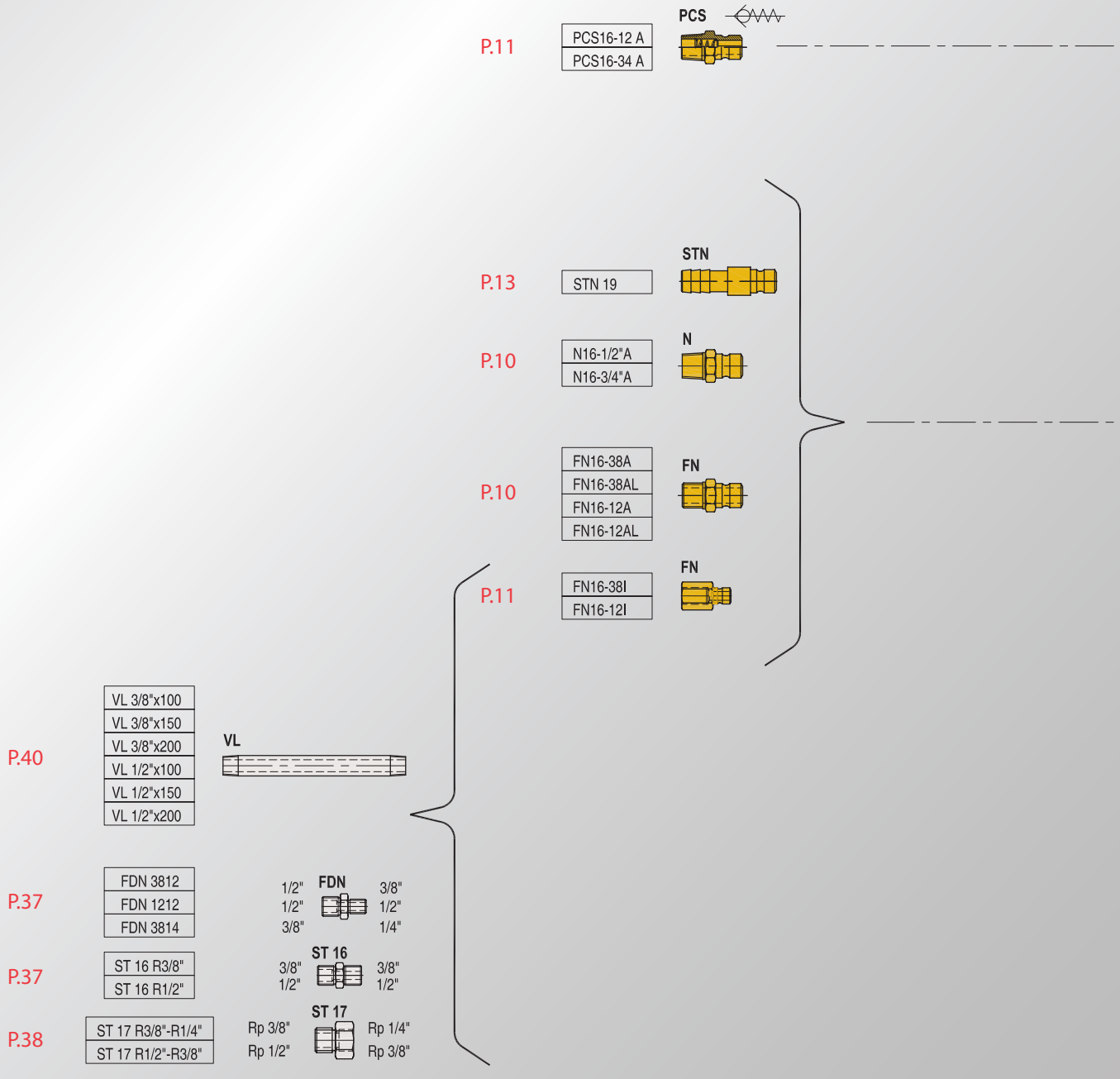
P.41 VM 200

P.34 PTLH

For "Push-to-Lock"

18/09/2012

FLOW CHANNEL



18/09/2012

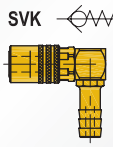
Spare Parts

SVK

SVK-119
P.14

SVK

SVK-219
P.14



SVK

SVK-319
P.14

SVK

SVK-500
P.16


BSP 1/2"

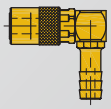
FSVK

FSVK-119V
P.16


Rp 1/2"

SK

SK-219
SK-219-PL
P.15



SK

SK-319
SK-319-PL
P.15

SK

SK-500
P.16


BSP 1/2"

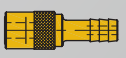
FSK

FSK-219V
P.16


Rp 1/2"

SK

SK-119
SK-119-PL
P.15

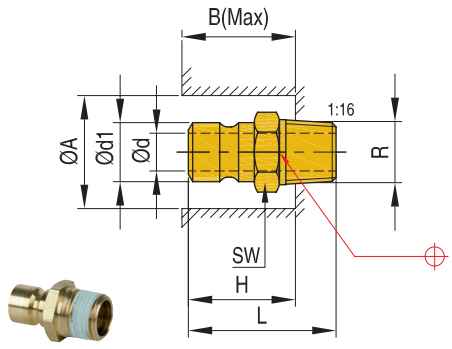


18/09/2012

N

Connector plugs with PTFE seal

Mat.: Brass

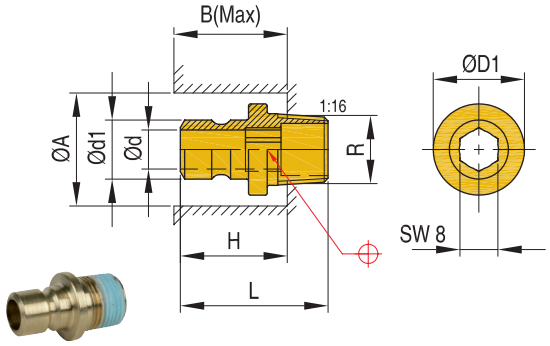


REF	R	d1	d	L	A	B	H	SW	Series
N 6-1/8" A	1/8"BSPT	9,4	6	24,0	22	18	17	13	N6
N 6-MA	M10x1	9,4	6	23,0	22	18	17	13	N6
N 6-1/4" A	1/4"BSPT	9,4	6	29,0	26	20	19	16	N6
N 6-3/8" A	3/8"BSPT	9,4	6	30,0	30	22	21	19	N6
N 9-1/8" A	1/8"BSPT	13,5	9	30,0	26	26	25	14	N9
N 9-1/4" A	1/4"BSPT	13,5	9	34,0	26	26	25	16	N9
N 9-3/8" A	3/8"BSPT	13,5	9	34,0	30	28	26	19	N9
N 9-MA	M10x1	13,5	6	29,5	26	26	25	16	N9
N 9-1/2" A	1/2"BSPT	13,5	9	39,0	37	28	26	24	N9
N 16-1/2" A	1/2"BSPT	19,9	16	44,0	32	38	37	22	N16
N 16-3/4" A	3/4"BSPT	19,9	16	45,0	38	40	38	29	N16

N

Connector plug with inner hexagon

Mat.: Brass

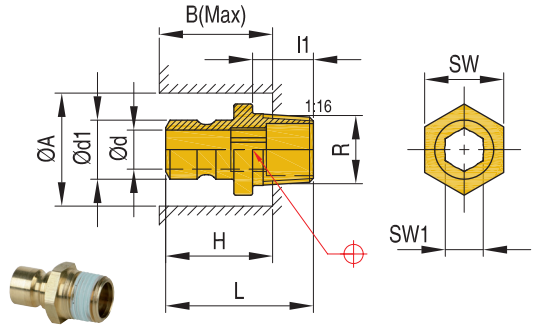


REF	R	d1	d	L	D1	A	B	H	Series
N 9-3/8" AH	3/8"BSPT	13,5	9	34	21	30	28	26	N9

N

Connector plug with inner hexagon

Mat.: Brass



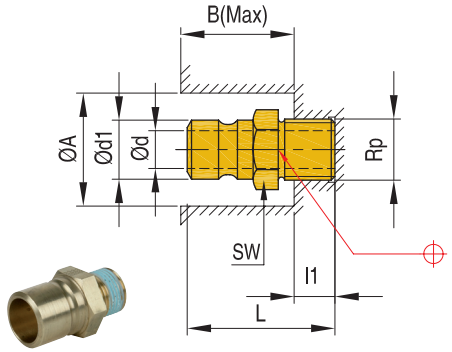
REF	R	d	d1	L	l1	A	B	H	SW	SW1	Series
N6 1/8 AHN	1/8"BSPT	6	9,4	23	9	22	16	14	11	5	N6
N6 M10x1 AHN	M10x1	6	9,4	23	9	22	16	14	11	5	N6
N6 1/4 AHN	1/4"BSPT	6	9,4	28	14	26	16	14	16	5	N6
N6 M14x1,5 AHN	M14x1,5	6	9,4	28	14	26	16	14	16	5	N6
N9 1/4 AHN	1/4"BSPT	9,3	13,5	34	14	26	22	20	16	8	N9
N9 M14x1,5 AHN	M14x1,5	9,3	13,5	34	14	26	22	20	16	8	N9
N9 M16x1,5 AHN	M16x1,5	9,3	13,5	35	14	30	23	21	19	8	N9
N9 3/8 AHN	3/8"BSPT	9,3	13,5	35	14	30	23	21	19	8	N9

- the Jiffy inner hexacon connector plugs enable easy mounting where space is limited when working with a wrench
- complete range supplied with thread sealant

FN

Connector plugs for FSK and FSVK

Mat.: Brass



REF	Rp	A	B	d1	d	L	l1	SW	Series
FN 9-14 A	1/4"BSP	30	23,5	13,5	9	34	11,5	16	N9
FN 9-38 A	3/8"BSP	30	23,5	13,5	9	34	11,5	19	N9
FN 16-38 A	3/8"BSP	32	29,5	19,9	15	40	11,5	22	N16
FN 16-38 AL	3/8"BSP	32	29,5	19,9	15	53	24,5	22	N16
FN 16-12 A	1/2"BSP	32	29,5	19,9	15	45	16,5	22	N16
FN 16-12 AL	1/2"BSP	32	29,5	19,9	15	54	25,5	22	N16

All Male plugs (including PCS-Series) and extension plugs are now supplied with Jiffy-seal™ thread sealant .
Eliminating the initial need for joint tape or compound.

CAD reference point

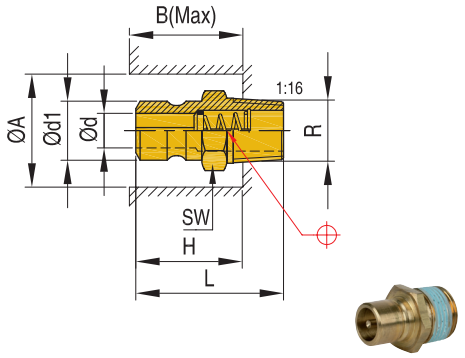
18/09/2012

Shut-off connector plugs for SVK

Mat.: Brass

PCS

REF	R	d1	d	L	A	B	H	SW	Series
PCS 6-14 A	1/4"BSPT	9,4	6	29,0	28	20	18	16	N6
PCS 6-38 A	3/8"BSPT	9,4	6	29,5	30	20	18	19	N6
PCS 9-14 A	1/4"BSPT	13,5	9	34,0	28	27	25	16	N9
PCS 9-38 A	3/8"BSPT	13,5	9	34,0	30	28	26	19	N9
PCS 9-12 A	1/2"BSPT	13,5	9	37,0	35	28	26	24	N9
PCS 16-12 A	1/2"BSPT	19,9	15	44,4	35	34	32	7/8"	N16
PCS 16-34 A	3/4"BSPT	19,9	15	44,4	42	32	30	1 1/8"	N16

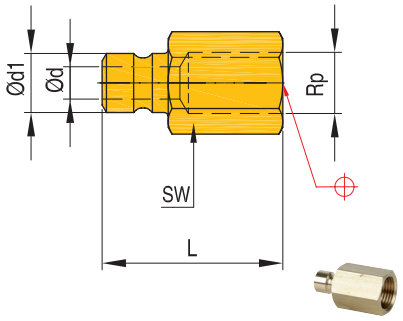


Connector plugs

Mat.: Brass

N

REF	Rp	d1	d	L	SW	Series
N 6-1/8" I	1/8"BSP	9,4	6	28	13	N6
N 6-1/4" I	1/4"BSP	9,4	6	32	16	N6
N 6-3/8" I	3/8"BSP	9,4	6	34	19	N6
N 9-1/4" I	1/4"BSP	13,5	9	37	16	N9
N 9-3/8" I	3/8"BSP	13,5	9	39	19	N9
N 9-1/2" I	1/2"BSP	13,5	9	46	24	N9

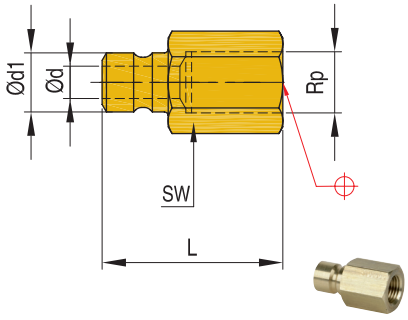


Connector plugs for FSK and FSVK

Mat.: Brass

FN

REF	Rp	d1	d	L	SW	Series
FN 9-18 I	1/8"BSP	13,5	9	32	16	N9
FN 9-14 I	1/4"BSP	13,5	9	37	19	N9
FN 16-38 I	3/8"BSP	19,9	15	40	22	N16
FN 16-12 I	1/2"BSP	19,9	15	45	24	N16

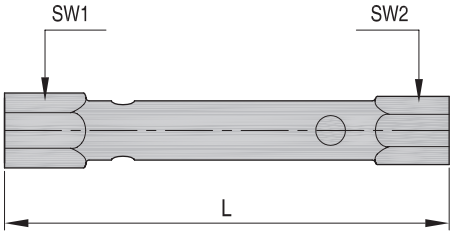


Socket wrenches

Mat.: St. 55 DIN 2391

DS

REF	L	SW1	SW2
DS 1314	140	13	14
DS 1617	150	16	17
DS 1922	170	19	22
DS 2427	190	24	27



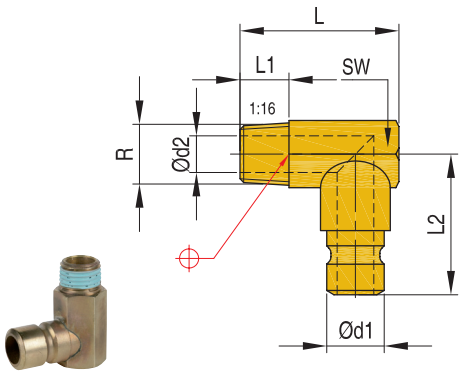
CAD reference point

18/09/2012

ATN

Angle nipples

Mat.: Brass

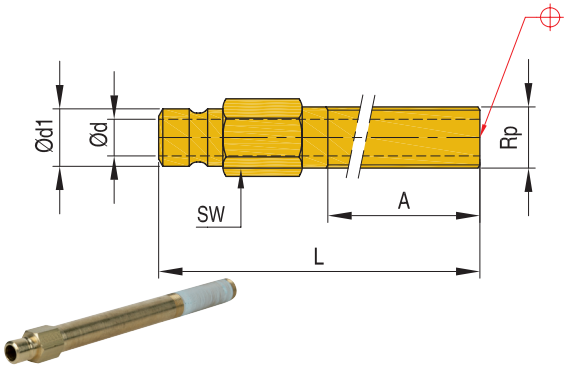


REF	R	d1	d2	L	L1	L2	SW	Series
ATN 9	1/8"BSPT	9,4	6	27	9	23,0	11	N6
ATN 13	1/4"BSPT	13,5	9	34	9	24,5	15	N9

EJP

Extension pipes

Mat.: Brass

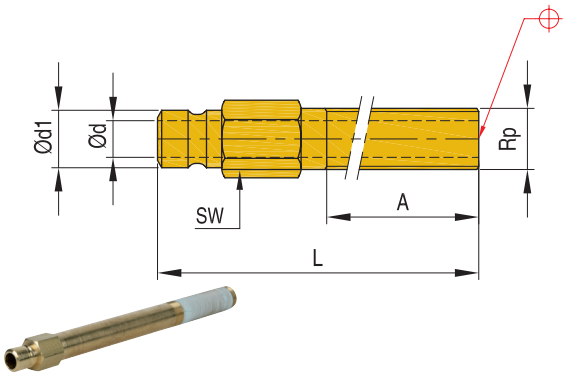


REF	Rp	d1	d	L	A	SW	Series
EJP 2514	1/8"BSP	9,4	6,3	100	61	12	N6
EJP 2516	1/8"BSP	9,4	6,3	150	61	12	N6
EJP 2518	1/8"BSP	9,4	6,3	200	61	12	N6
EJP 2524	1/4"BSP	9,4	6,3	100	61	15	N6
EJP 2526	1/4"BSP	9,4	6,3	150	61	15	N6
EJP 2528	1/4"BSP	9,4	6,3	200	61	15	N6
EJP 2534	3/8"BSP	9,4	6,3	100	61	18	N6
EJP 2536	3/8"BSP	9,4	6,3	150	61	18	N6
EJP 2538	3/8"BSP	9,4	6,3	200	61	18	N6

EJP

Extension pipes

Mat.: Brass



REF	Rp	d1	d	L	A	SW	Series
EJP 3514	1/8"BSP	13,5	6,3	100	61	15	N9
EJP 3516	1/8"BSP	13,5	6,3	150	61	15	N9
EJP 3518	1/8"BSP	13,5	6,3	200	61	15	N9
EJP 3524	1/4"BSP	13,5	9,5	100	61	15	N9
EJP 3526	1/4"BSP	13,5	9,5	150	61	15	N9
EJP 3528	1/4"BSP	13,5	9,5	200	61	15	N9
EJP 3534	3/8"BSP	13,5	9,5	100	61	18	N9
EJP 3536	3/8"BSP	13,5	9,5	150	61	18	N9
EJP 3538	3/8"BSP	13,5	9,5	200	61	18	N9

CAD reference point

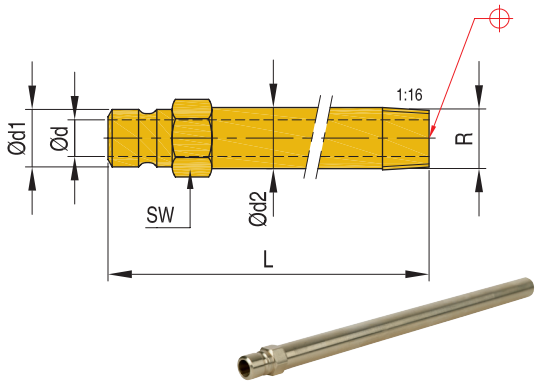
18/09/2012

Brass extension pipes

Mat.: Brass

BEP

REF	R	L	SW	d	d1	d2	Series
BEP-1810	1/8" BSPT	100	11	6	9,4	10	N6
BEP-1415	1/4" BSPT	150	15	9	13,5	14	N9

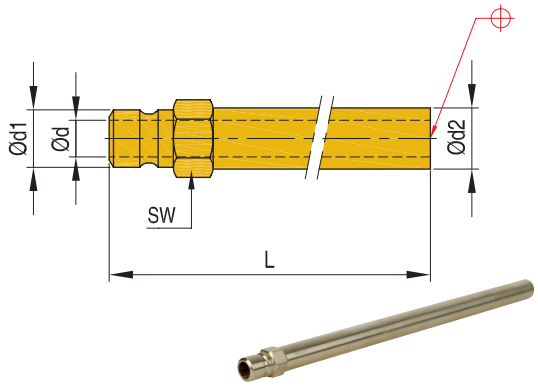


Brass extension pipes

Mat.: Brass

BEP

REF	L	SW	d	d1	d2	Series
BEP-1815	150	11	6	9,4	10	N6
BEP-1825	250	11	6	9,4	10	N6
BEP-1425	250	15	9	13,5	14	N9

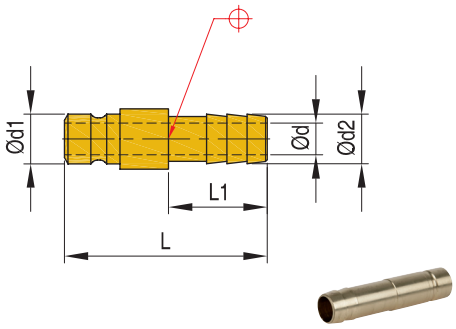


Hose Nipples

Mat.: Brass

STN / STN PL

REF	d	d1	d2	L1	L	fits hose ID	Series
STN 9	6,0	9,4	10	17	39,0	-	N6
STN 13	9,0	13,5	14	21	41,0	-	N9
STN 19	15,5	19,9	20	46	91,0	-	N16
STN 9 PL	6,0	9,4	-	24	37,0	3/8"	N6
STN 13 PL	9,0	13,5	-	28	48,0	1/2"	N9
STN 19 PL	14,0	19,9	-	28	63,5	3/4"	N16

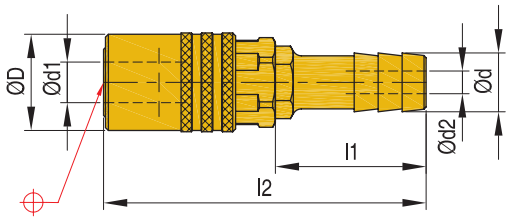


CAD reference point

18/09/2012

SVK

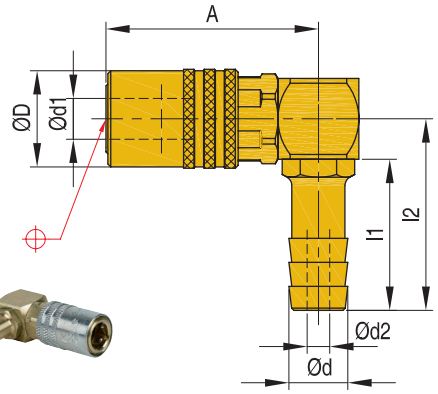
Jiffy Matics straight with valve — Mat.: Brass-stainless steel



REF	d1	d2	d	D	l1	l2	Series
SVK-106	9,5	5	7,3	17,0	27	57	N6
SVK-109	9,5	6	10,5	17,0	27	57	N6
SVK-111	13,6	9	12,2	22,6	27	68	N9
SVK-113	13,6	9	14,0	22,6	27	68	N9
SVK-119	20,0	16	20,0	30,0	46	103	N16

SVK (90°)

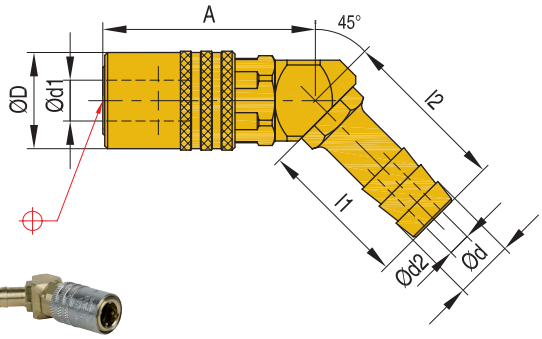
Jiffy Matics 90° with valve — Mat.: Brass-stainless steel



REF	d1	d2	d	D	A	l1	l2	Series
SVK-206	9,5	5	7,3	17,0	38	27	34	N6
SVK-209	9,5	6	10,5	17,0	38	27	34	N6
SVK-211	13,6	9	12,2	22,6	52	27	37	N9
SVK-213	13,6	9	14,0	22,6	52	27	37	N9
SVK-219	20,0	16	20,0	30,0	74	46	69	N16

SVK (45°)

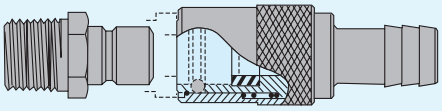
Jiffy Matics 45° with valve — Mat.: Brass-stainless steel



REF	d1	d2	d	D	A	l1	l2	Series
SVK-306	9,5	5	7,3	17,0	38	27	34	N6
SVK-309	9,5	6	10,5	17,0	38	27	34	N6
SVK-311	13,6	9	12,2	22,6	52	27	37	N9
SVK-313	13,6	9	14,0	22,6	52	27	37	N9
SVK-319	20,0	16	20,0	30,0	74	46	69	N16

Jiffy-Tite® Sockets

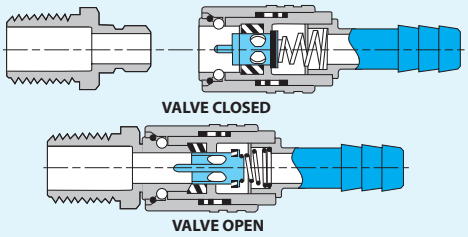
Flow-thru type



Jiffy-Tite sockets have a large thru hole to provide unrestricted flow.

Jiffy-Matic® Sockets

Automatic shut-off type



Jiffy-Tite & Jiffy-Matic sockets can be used interchangeably with the same Jiffy-Tite plugs already in your mold or die. Comparable sizes of both type sockets have the same O.D., permitting interchangeability even when the plugs are flush mounted.

CAD reference point

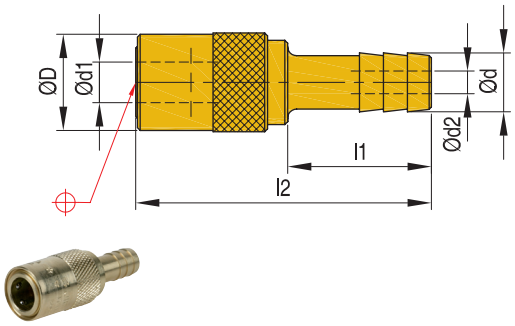
18/09/2012

Jiffy Tites straight

Mat.: Brass-stainless steel

SK

REF	d1	d2	d	D	l1	l2	Series
SK-106	9,5	5	7,3	17,0	25	52	N6
SK-109	9,5	6	10,5	17,0	25	52	N6
SK-111	13,6	9	12,2	22,6	25	62	N9
SK-113	13,6	9	14,0	22,6	25	62	N9
SK-119	20,0	16	20,0	30,0	32	77	N16

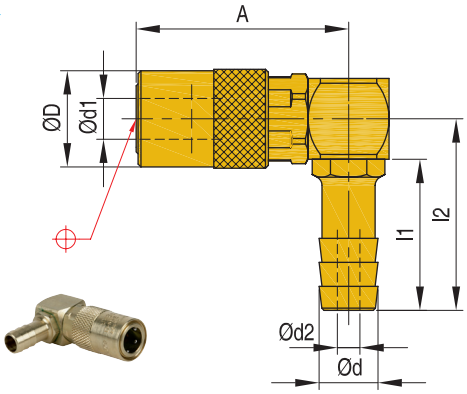


Jiffy Tites 90°

Mat.: Brass-stainless steel

SK (90°)

REF	d1	d2	d	D	A	l1	l2	Series
SK-206	9,5	5	7,3	17,0	38	27	34	N6
SK-209	9,5	6	10,5	17,0	38	27	34	N6
SK-211	13,6	9	12,2	22,6	52	27	37	N9
SK-213	13,6	9	14,0	22,6	52	27	37	N9
SK-219	20,0	16	20,0	30,0	68	46	69	N16

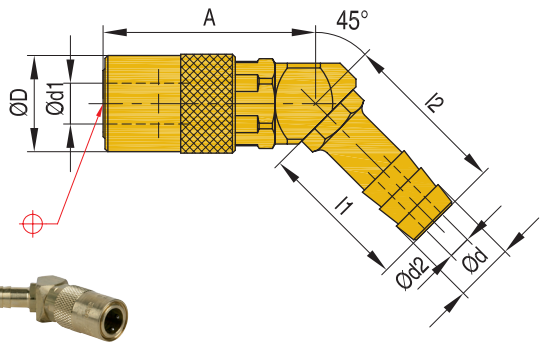


Jiffy Tites 45°

Mat.: Brass-stainless steel

SK (45°)

REF	d1	d2	d	D	A	l1	l2	Series
SK-306	9,5	5	7,3	17,0	38	27	34	N6
SK-309	9,5	6	10,5	17,0	38	27	34	N6
SK-311	13,6	9	12,2	22,6	52	27	37	N9
SK-313	13,6	9	14,0	22,6	52	27	37	N9
SK-319	20,0	16	20,0	30,0	67	46	69	N16

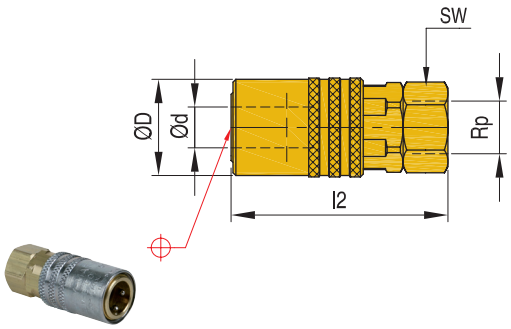


CAD reference point

18/09/2012

SVK 200-300-500

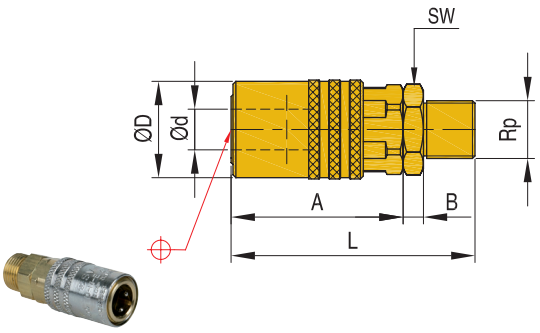
Female Jiffy Matics with valve — Mat.: Brass-stainless steel



REF	Rp	d	l2	D	SW	Series
SVK-200	1/8" BSP	9,5	39	17,0	1/2"	N6
SVK-300	1/4" BSP	13,6	53	22,6	3/8"	N9
SVK-500	1/2" BSP	20,0	57	30,0	1 1/8"	N16

FSVK

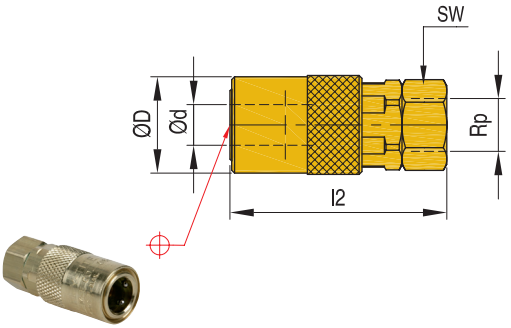
Jiffy Matics with valve — Mat.: Brass-stainless steel



REF	Rp	d	L	D	A	B	SW	Series
FSVK-106 V	1/4" BSP	9,5	46	17,0	30,5	8,0	1/2"	N6
FSVK-111 V	3/8" BSP	13,6	60	22,6	41,0	8,5	3/8"	N9
FSVK-119 V	1/2" BSP	17,5	76	30,6	57,0	7,0	1 1/8"	N16

SK 200-300-500

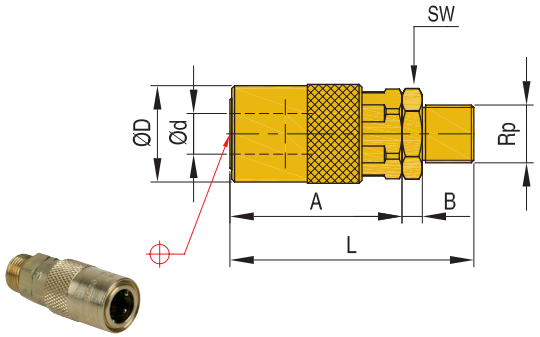
Female Jiffy Tites — Mat.: Brass-stainless steel



REF	Rp	d	l2	D	SW	Series
SK-200	1/8" BSP	9,5	39	17,0	1/2"	N6
SK-300	1/4" BSP	13,6	53	22,6	3/8"	N9
SK-500	1/2" BSP	20,0	59	30,0	1 1/8"	N16

FSK

Jiffy Tites — Mat.: Brass-stainless steel



REF	Rp	d	L	D	A	B	SW	Series
FSK-206 V	1/4" BSP	9,5	46	17,0	30,5	7,0	1/2"	N6
FSK-211 V	3/8" BSP	13,6	60	22,6	41,0	8,0	3/8"	N9
FSK-219 V	1/2" BSP	17,5	72	30,6	51,0	8,5	1 1/8"	N16

CAD reference point

18/09/2012

DME

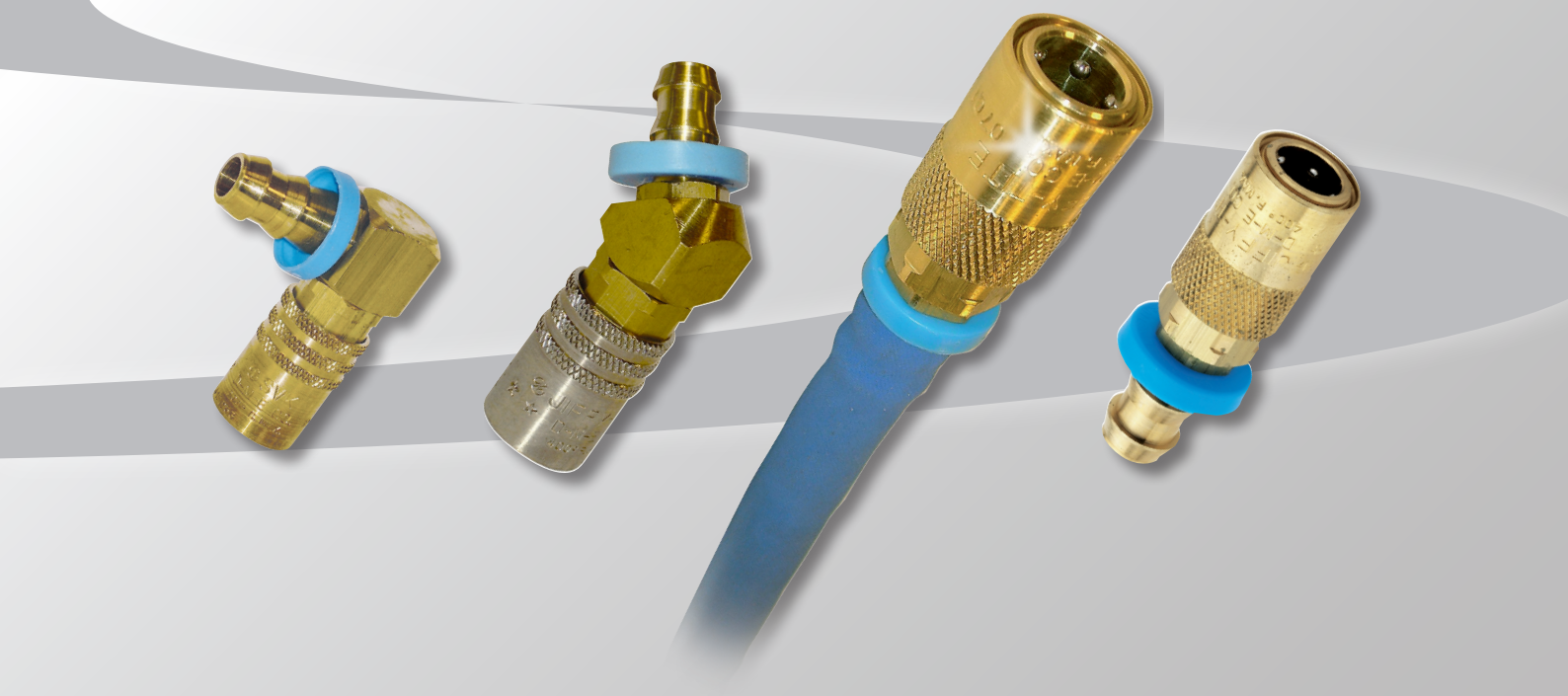
EVERY STEP OF THE WAY

DME Push-to-Lock

DME Jiffy-Lok™ sockets used with special Push-to-Lock™ hose do not require the use of a hose clamp for hose retention. The special hose is simply pushed onto the stem and will stay on without any additional fasteners, even under conditions of severe temperature, vibration and pressure. The sockets have a blue plastic collar, purely for identification, to cover the cut end of the hose.

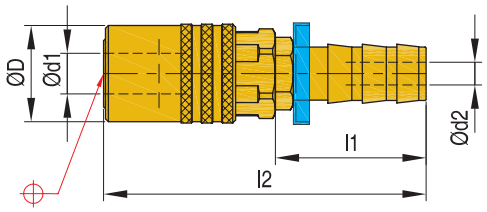
Jiffy-Lok™ sockets are compatible with standard Jiffy sockets/plugs. They are made of exactly the same brass and use the same high quality Viton seals.

Use special Push-to-Lock™ hose (PTLH) only. Jiffy-Lok™ connector sockets are for use with water and water-based coolants only. Although the Sockets are suitable to temperatures to 200°C observe the temperature ratings of the hose. Never exceed 13 bar



SVK - PL

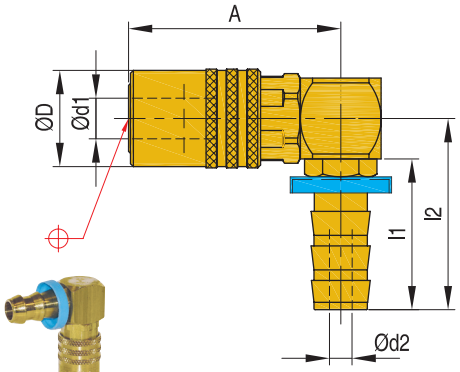
Jiffy Lok straight with valve "Push-to-Lock" Mat.: Brass-stainless steel



REF	d1	d2	fits	D	l1	l2	Series
SVK-106-PL	9,5	5	1/4"	17,0	27	57	N6
SVK-109-PL	9,5	6	3/8"	17,0	27	57	N6
SVK-111-PL	13,6	6	3/8"	22,6	27	68	N9
SVK-113-PL	13,6	9	1/2"	22,6	27	68	N9

SVK - 90° PL

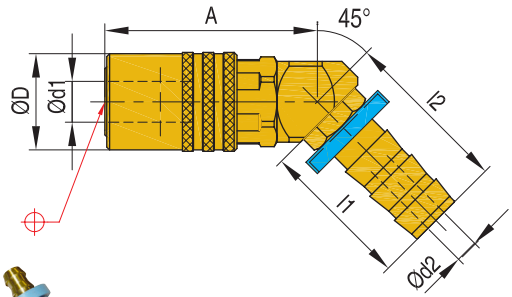
Jiffy Lok 90° with valve "Push-to-Lock" Mat.: Brass-stainless steel



REF	d1	d2	fits	D	A	l1	l2	Series
SVK-206-PL	9,5	5	1/4"	17,0	38	27	34	N6
SVK-209-PL	9,5	6	3/8"	17,0	38	27	34	N6
SVK-211-PL	13,6	6	3/8"	22,6	52	27	37	N9
SVK-213-PL	13,6	9	1/2"	22,6	52	27	37	N9

SVK - 45° PL

Jiffy Lok 45° with valve "Push-to-Lock" Mat.: Brass-stainless steel



REF	d1	d2	fits	D	A	l1	l2	Series
SVK-306-PL	9,5	5	1/4"	17,0	38	27	34	N6
SVK-309-PL	9,5	6	3/8"	17,0	38	27	34	N6
SVK-311-PL	13,6	6	3/8"	22,6	52	27	37	N9
SVK-313-PL	13,6	9	1/2"	22,6	52	27	37	N9

Jiffy-Lok® Connector Sockets

With clampless hose stems for use with "Push-to-Lock" type hose

- ✓ Saves set-up time by eliminating the need for hose clamps.
- ✓ Popular sizes for interchangeability with existing Jiffy-Tite, Jiffy-Matic sockets.
- ✓ More compact and consistently sized than competitive sockets.
- ✓ Leakproof brass and stainless steel construction.
- ✓ Replaceable seals and valves for long service life.

CAD reference point

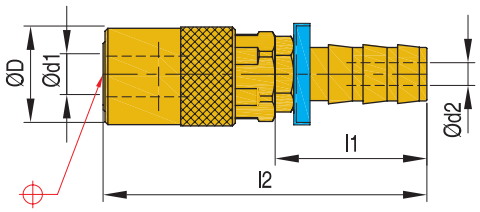
18/09/2012

Jiffy Lok Straight "Push-to-Lock"

Mat.: Brass-stainless steel

SK - PL

REF	d1	d2	fits	D	l1	l2	Series
SK-106-PL	9,5	5	1/4"	17,0	25	52	N6
SK-109-PL	9,5	6	3/8"	17,0	25	52	N6
SK-111-PL	13,6	6	3/8"	22,6	25	62	N9
SK-113-PL	13,6	9	1/2"	22,6	25	62	N9
SK-119-PL	20,0	14	3/4"	30,0	32	77	N16

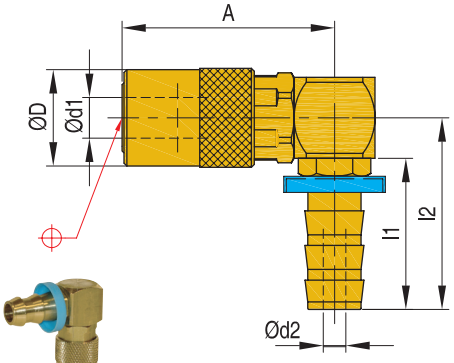


Jiffy Lok 90° "Push-to-Lock"

Mat.: Brass-stainless steel

SK - 90° PL

REF	d1	d2	fits	D	A	l1	l2	Series
SK-206-PL	9,5	5	1/4"	17,0	38	27	34	N6
SK-209-PL	9,5	6	3/8"	17,0	38	27	34	N6
SK-211-PL	13,6	6	3/8"	22,6	52	27	37	N9
SK-213-PL	13,6	9	1/2"	22,6	52	27	37	N9
SK-219-PL	20,0	14	3/4"	30,0	68	46	69	N16

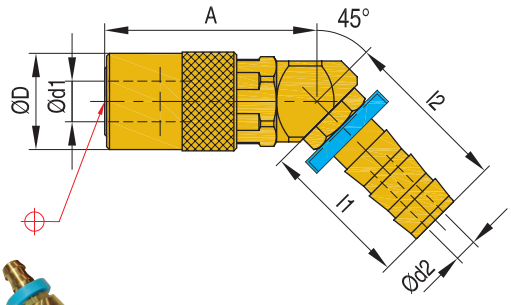


Jiffy Lok 45° "Push-to-Lock"

Mat.: Brass-stainless steel

SK - 45° PL

REF	d1	d2	fits	D	A	l1	l2	Series
SK-306-PL	9,5	5	1/4"	17,0	38	27	34	N6
SK-309-PL	9,5	6	3/8"	17,0	38	27	34	N6
SK-311-PL	13,6	6	3/8"	22,6	52	27	37	N9
SK-313-PL	13,6	9	1/2"	22,6	52	27	37	N9
SK-319-PL	20,0	14	3/4"	30,0	67	46	69	N16

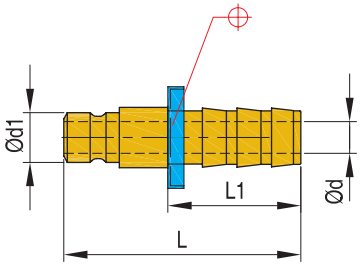


Hose Nipples

Mat.: Brass

STN PL

REF	d	d1	d2	L1	L	fits hose ID	Series
STN 9 PL	6,0	9,4	-	24	37,0	3/8"	N6
STN 13 PL	9,0	13,5	-	28	48,0	1/2"	N9
STN 19 PL	14,0	19,9	-	28	63,5	3/4"	N16

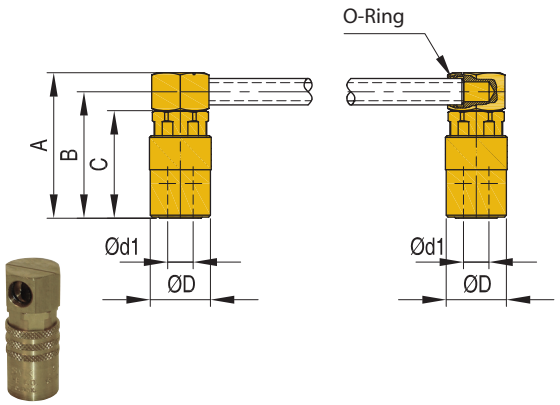


CAD reference point

18/09/2012

JCB-SV

Jiffy Matics Socket Adapter with valve — Mat.: Brass. Max. T: 200°C & 13,7 bar

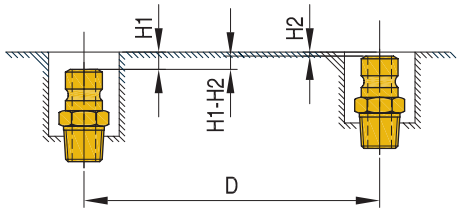


REF	d1	D	A	B	C	Description	Series
JCB-0200 SV	9,5	17,0	44,2	37,3	30,5	TWO - WAY SHUTOFF	N6
JCB-0300 SV	13,6	22,6	57,4	49,3	41,4	TWO - WAY SHUTOFF	N9

Provides more compact port-to-port connections than conventional hose methodes.3 Socket adapter marked with cut-line groove for quick sizing of brass tube length.

JCB

Jiffy Tite Socket Adapter — Mat.: Brass. Max. T: 200°C & 13,7 bar

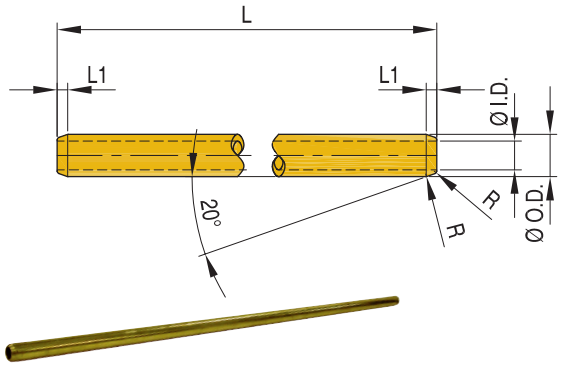


REF	d1	D	A	B	C	Description	Series
JCB-0200	9,5	17,0	44,2	37,3	30,5	FLOW - THRU	N6
JCB-0300	13,6	22,6	57,4	49,3	41,4	FLOW - THRU	N9

H1 - H2	D
±0.3	50 to 100 mm
±0.5	100 to 200 mm
±0.8	200 to 300 mm
±1	300 to 400 mm

JBT

Brass Tube — Mat.: Brass



REF	d1	D	R	L	L1	Series
JBT 0450	5,4	7,9	0,3	457	1,75	N6
JBT 0570	7,8	11,1	0,3	457	2,00	N9

JCB-200-300

Sparepart for coolant bridge — Mat.: Viton O-Ring

REF	Series
JCB-0011	N6
JCB-0013	N9
200-8	N6
300-8	N9

CAD reference point

18/09/2012

Collar springs

200 - 300 - 500

REF	Series
200-3	N6
300-3	N9
500-3	N16

Retainer rings

200 - 300 - 500

REF	Series
200-4	N6
300-4	N9
500-4	N16

Stainless steel balls

200 - 300 - 500

REF	Series
200-5	N6
300-5	N9
500-5	N16

Seals

Mat.: Viton 220°C

200 - 300 - 500

REF	Series
200-8	N6
300-8	N9
500-8	N16

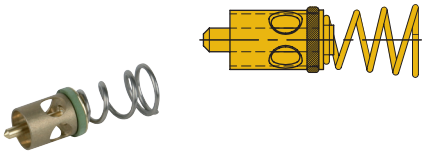
CAD reference point

18/09/2012

N / DK

Valves + springs

REF	Series
N6-601	N6
N9-601	N9
DK-N16 V	N16



JSTK

Jiffy Tite seal removal kit

REF
JSTK 235

Seals are replaceable saving costs.
When worn out, simply replace the seal instead of the whole coupling.

The Jiffy-Tite seal removal kit can be used for removal of connector seals from Jiffy-Matic sockets. Can also be used with Jiffy-Tite sockets to provide easier seal removal.

SEA

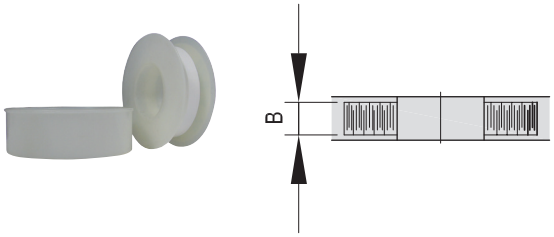
Adhesives — Max. T: 204°C - 10g

REF	T	Info
SEA 03	204°C	10g

DB

Sealing tapes — Mat.: PTFE Max.T=250°C

REF	L	B
DB 1206	12 m	6 mm
DB 1212	12 m	12 mm



CAD reference point

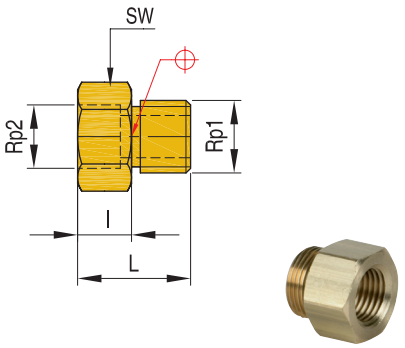
18/09/2012

Adapters

Mat.: Brass

N

REF	Rp1	Rp2	L	l	SW	Series
N6-18	UNEF 7/16"-32	1/8"BSP	13	8	13	N6
N9-14	UNEF 5/8"-24	1/4"BSP	18	11	19	N9

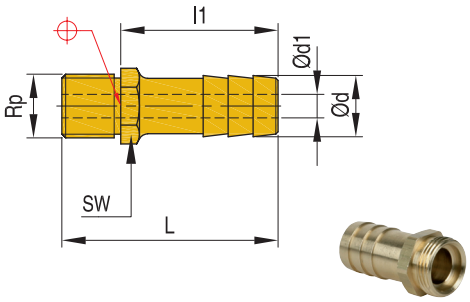


Hose Nipples

Mat.: Brass

N / 500

REF	Rp	d1	d	L	L1	SW	Series
N6-6M	UNEF 7/16"-32	5	6	32	27	11	N6
N6-9M	UNEF 7/16"-32	6	9	32	27	11	N6
N9-11M	UNEF 5/8"-24	9	11	33	27	16	N9
N9-13M	UNEF 5/8"-24	9	13	33	27	16	N9
500-19M	BSP 1/2"-14	16	19	56	46	22	N16

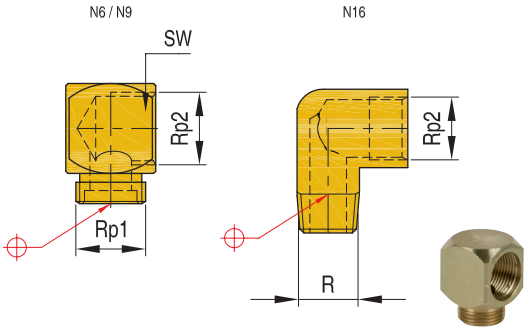


90° Angles

Mat.: Brass

N / 500

REF	Rp1	Rp2	R	SW	Series
N6-90	UNEF 7/16"-32	UNEF 7/16"-32	-	15	N6
N9-90	UNEF 5/8"-24	UNEF 5/8"-24	-	21	N9
500-90	-	1/2"NPT	1/2"BSPT	26	N16

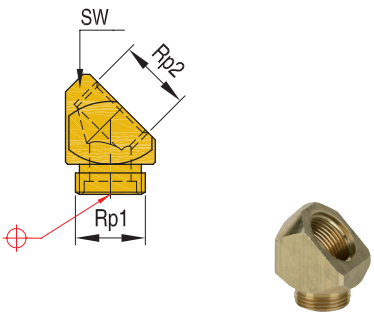


45° Angles

Mat.: Brass

N / 500

REF	Rp1	Rp2	SW	Series
N6-45	UNEF 7/16"-32	UNEF 7/16"-32	15	N6
N9-45	UNEF 5/8"-24	UNEF 5/8"-24	21	N9
500-45	1/2"NPT	1/2"BSP	26	N16



CAD reference point

18/09/2012

FLOW CHANNEL

P.31 MK100-9 / MK100-9-PL — MK 100

P.31 MK120-9 — MK 120

P.31 MK150-9 / MK150-9-PL — MK 150

P.29 ST14 9-M8x0.75 / ST14 9-M10x1 / ST14 9-R1/8" — ST 14

P.29 ST15 9-120 / ST15 9-240 / ST15 9-360 — ST 15

P.28 ST12 9 / ST12 9 PL — ST 12

P.28 ST11 9-M8x0.75 / ST11 9-M10x1 / ST11 9-R1/8" / ST11 9-M14x1.5 / ST11 9-R1/4" — ST 11

P.29 ST13 9-M14x1.5 / ST13 9-R1/4" — ST 13

P.30 MK10-9V / MK10-9V-PL — MK 10

P.30 MK12-9V — MK 12

P.30 MK15-9V / MK15-9V-PL — MK 15

P.32 MK20-9-R1/4" — MK 20

P.32 MK200-9-M14x1.5 — MK 200

P.32 MK220-9-M14x1.5 — MK 220

P.32 MK250-9-M14x1.5 — MK 250

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US 1700

US 1700 4 — P.42

US 1600

US 1600 6 — P.42

US 1650

US 1650 6 — P.42

GS 1090
VM 200

P.41 GS 1090 9 *

P.41 VM 200 9

Not for "Push-to-Lock"

P.34 PTLH

For "Push-to-Lock"

ST 155

P.38 ST155 9-120 M14x1.5
ST155 9-240 M14x1.5

HN

P.35 HN R1/8" - PL
HN M10x1 - PL

ST 16

ST16 R1/2"
ST16 R3/4"

P.37

Accessories

ST 17

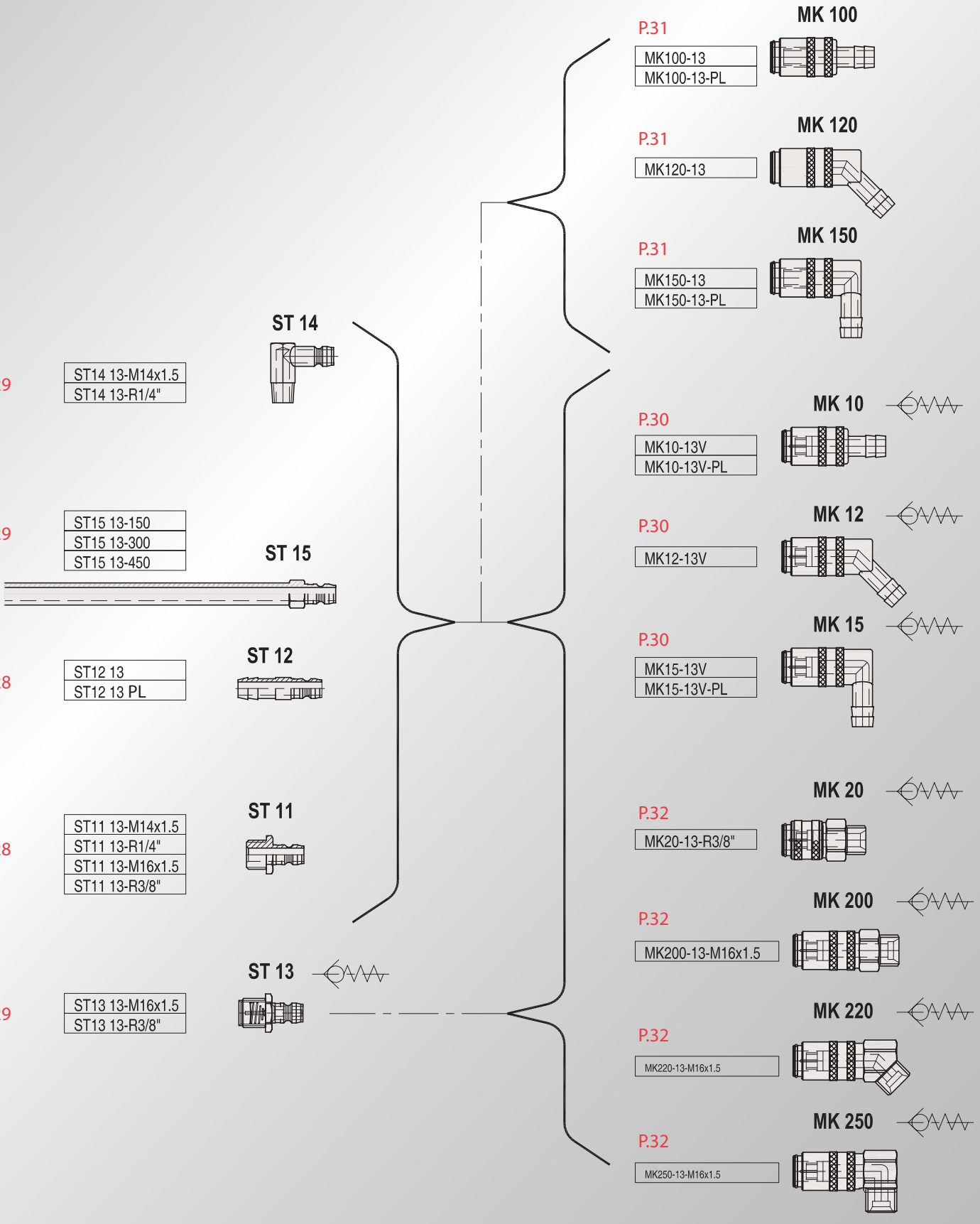
ST17 M14x1.5 - M18x1 M18x1

P.38

18/09/2012

FLOW CHANNEL

max. Ød = 9



18/09/2012

US 1700

US 1700 4 P.42

US 1600

US 1600 6 P.42

US 1650

US 1650 6 P.42

GS 1090
VM 200

P.41 GS 1090 13 *

P.41 VM 200 13

Not for "Push-to-Lock"

P.34 PTLH

For "Push-to-Lock"

ST 155

P.38 ST155 13-150 M16x1.5
ST155 13-300 M16x1.5

HN

P.35 HN M14x1.5 - PL
HN R1/4" - PL
HN R3/8" - PL
HN R1/2" - PL

ST 16

P.37 ST16 R1/2"
ST16 R3/4"

ST 17

P.38 ST17 M24x1.5 - M16x1,5
ST17 R1/2" - R3/8"

M18x1

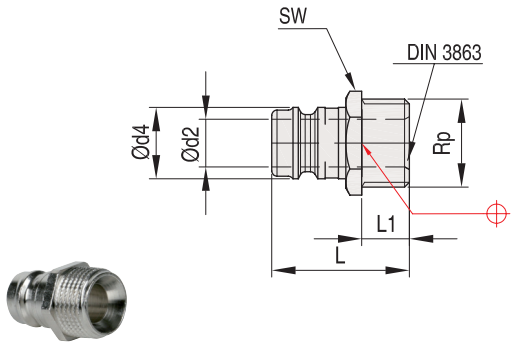
Accessories

18/09/2012

ST 11

Open Connector plug

Mat.: Brass

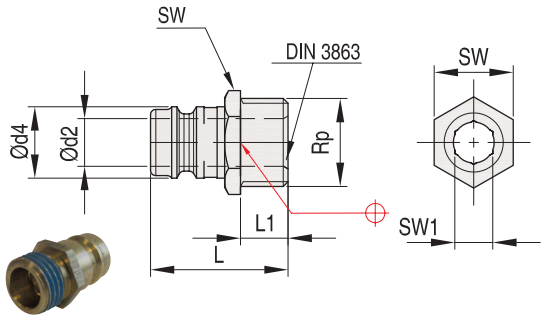


REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW
ST 11 9-M8x0,75	M8x0,75	4,5	9	24	7	15	200	11
ST 11 9-M10x1	M10x1	6,0	9	24	7	15	200	11
ST 11 9-R1/8"	1/8"BSP	6,0	9	24	7	15	200	11
ST 11 9-M14x1,5	M14x1,5	6,0	9	26	9	15	200	15
ST 11 9 R1/4"	1/4"BSP	6,0	9	26	9	15	200	15
ST 11 13-M14x1,5	M14x1,5	9,0	13	26	9	10	200	15
ST 11 13 R1/4"	1/4"BSP	9,0	13	26	9	10	200	15
ST 11 13 M16x1,5	M16x1,5	9,0	13	26	9	10	200	17
ST 11 13-R3/8"	3/8"BSP	9,0	13	26	9	10	200	17

ST 11

Connector plug with inner hexagon

Mat.: Brass



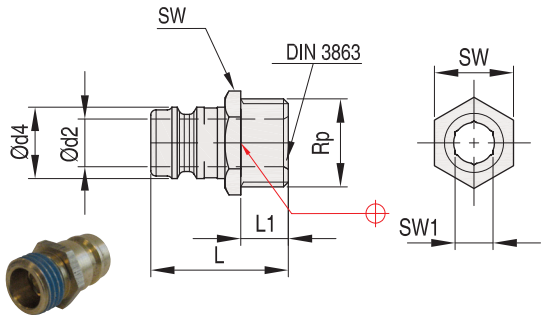
REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW	SW1
ST 11 9-R1/8" H	1/8"BSP	6	9	24	7	15	200	11	5
ST 11 9-M10x1 H	M10 x 1	6	9	24	7	15	200	11	5
ST 11 9-R1/4" H	1/4"BSP	6	9	26	9	15	200	15	5
ST 11 9-M14x1,5 H	M14 x 1,5	6	9	26	9	15	200	15	5

- the inner hexacon connector plugs enable easy mounting where space is limited when working with a wrench
- complete range supplied with thread sealant

ST 11

Connector plug with inner hexagon

Mat.: Brass

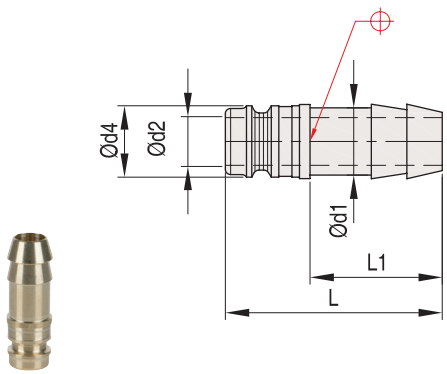


REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW	SW1
ST 11 13-R1/4" H	1/4"BSP	9,3	13	26	9	15	200	15	8
ST 11 13-M14x1,5 H	M14 x 1,5	9,3	13	26	9	15	200	15	8
ST 11 13-M16x1,5 H	M16 x 1,5	9,3	13	26	9	15	200	17	8
ST 11 13-R3/8" H	3/8"BSP	9,3	13	26	9	15	200	17	8

ST 12

Hose Nipples

Mat.: Brass



REF	d1	d2	d4	L	L1
ST 12 9	9	6	9	40	17
ST 12 13	13	9	13	41	25

CAD reference point

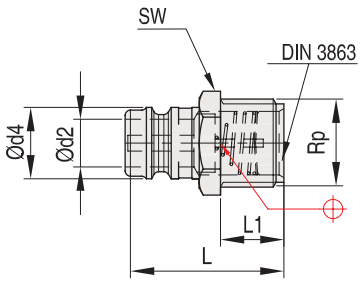
18/09/2012

Shut-off Connector plug

Mat.: Brass, O-ring: Viton

ST 13

REF	Rp	d2	d4	L	L1	P (bar)	T (°C)	SW
ST 13 9-M14x1,5	M14x1,5	6	9	29	12	15	200	15
ST 13 9-R1/4"	1/4" BSP	6	9	29	12	15	200	15
ST 13 13-M16x1,5	M16x1,5	9	13	30	12	10	200	17
ST 13 13-R3/8"	3/8" BSP	9	13	30	12	10	200	17

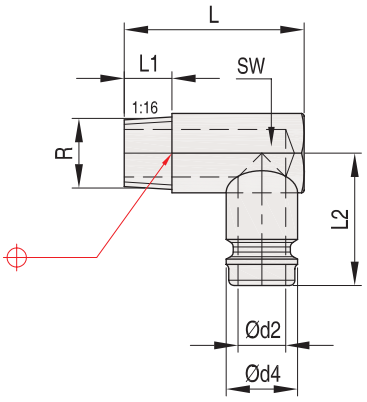


Angle Connector plugs

Mat.: Brass

ST 14

REF	R	d2	d4	L	L1	L2	SW
ST 14 9-M8x0,75	M8x0,75	4,5	9	27	9	23	11
ST 14 9-M10x1	M10x1	6,0	9	27	9	23	11
ST 14 9-R1/8"	1/8" BSPT	6,0	9	27	9	23	11
ST 14 13-M14x1,5	M14x1,5	9,0	13	34	9	25	15
ST 14 13-R1/4"	1/4" BSPT	9,0	13	34	9	25	15

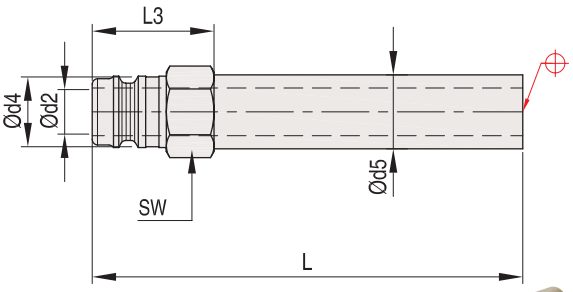


Extension nipples

Mat.: Brass

ST 15

REF	d2	d4	d5	l3	L	SW
ST15 9x120	6	9	10	21	120	11
ST 15 9x240	6	9	10	21	240	11
ST 15 9x360	6	9	10	21	360	11
ST 15 13x150	9	13	14	23	150	15
ST 15 13x300	9	13	14	23	300	15
ST 15 13x450	9	13	14	23	450	15

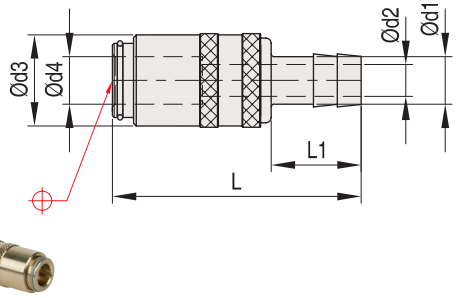


CAD reference point

18/09/2012

MK 10

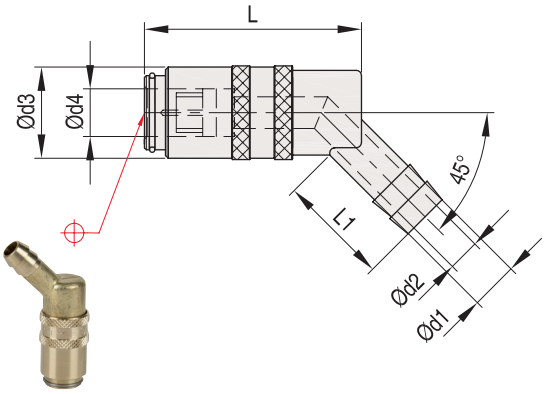
Quick Release coupling straight with valve — Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 10 - 9V	9	6	17	9	47	17	15	200
MK 10 - 13V	13	9	22	13	61	25	10	200

MK 12

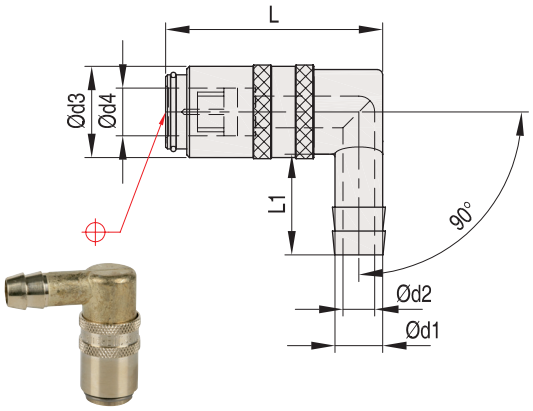
Quick Release coupling 45° with valve — Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 12 - 9V	9	6	17	9	41	17	15	200
MK 12 - 13V	13	9	22	13	51	25	10	200

MK 15

Quick Release coupling 90° with valve — Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 15 - 9V	9	6	17	9	41	19	15	200
MK 15 - 13V	13	9	22	13	51	28	10	200

CAD reference point

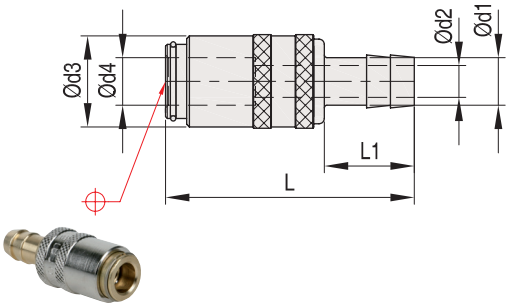
18/09/2012

Quick Release coupling straight

Mat.: Brass, O-ring: Viton

MK 100

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 100 - 9	9	6	17	9	47	17	15	200
MK 100 - 13	13	9	22	13	61	25	10	200

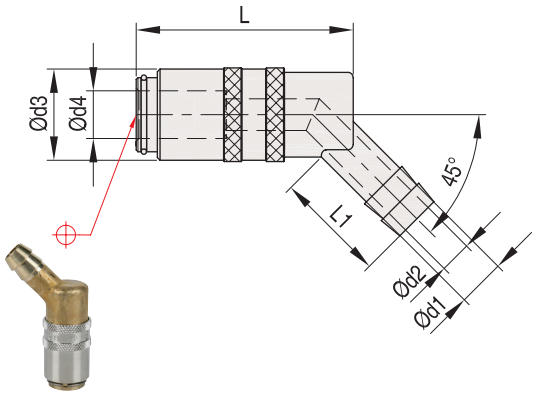


Quick Release coupling 45°

Mat.: Brass, O-ring: Viton

MK 120

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 120 - 9	9	6	17	9	41	17	15	200
MK 120 - 13	13	9	22	13	51	25	10	200

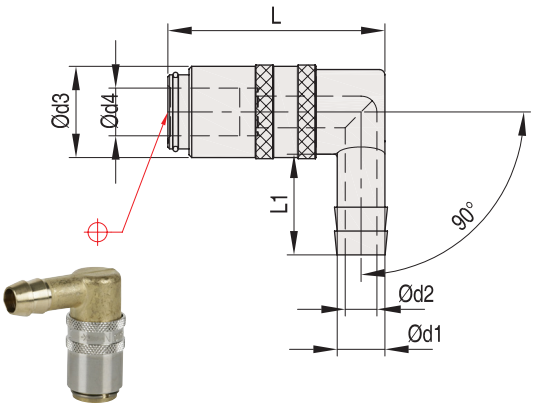


Quick Release coupling 90°

Mat.: Brass, O-ring: Viton

MK 150

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 150 - 9	9	6	17	9	41	19	15	200
MK 150 - 13	13	9	22	13	51	28	10	200

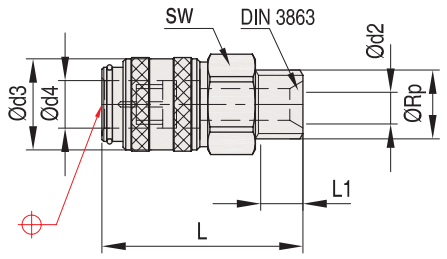


CAD reference point

18/09/2012

MK 20

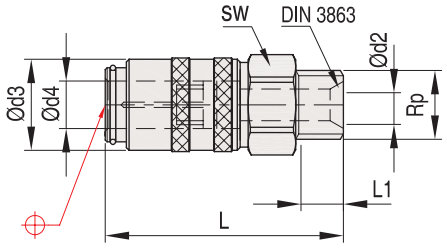
Quick Release coupling straight with valve and thread — Mat.: Brass, O-ring: Viton



REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK 20 9-R1/4"	1/4" BSP	7	18	9	38	9	15	200	17
MK 20 13-R3/8"	3/8" BSP	10	23	13	38	9	10	200	22

MK 200

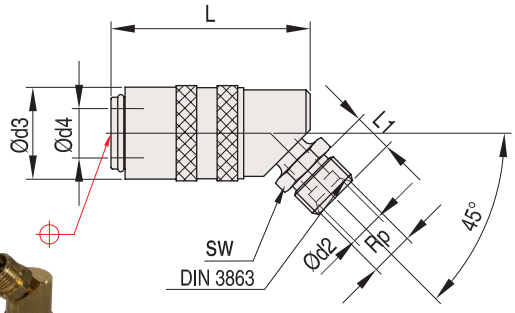
Quick Release coupling straight with valve and thread — Mat.: Brass, O-ring: Viton



REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK 200 9-M14x1,5	M14x1,5	6	17	9	48	9	15	200	17
MK 200 13-M16x1,5	M16x1,5	9	23	13	52	9	10	200	22

MK 220

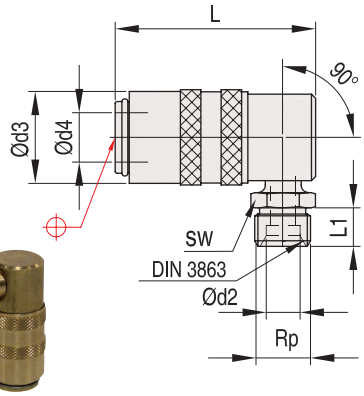
Quick Release coupling 45° with valve and thread — Mat.: Brass, O-ring: Viton



REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK 220 9-M14x1,5	M14x1,5	6	18	9	42	9	15	200	17
MK 220 13-M16x1,5	M16x1,5	9	23	13	52	10	10	200	17

MK 250

Quick Release coupling 90° with valve and thread — Mat.: Brass, O-ring: Viton



REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MK 250 9-M14x1,5	M14x1,5	6	18	9	42	9	15	200	17
MK 250 13-M16x1,5	M16x1,5	9	23	13	52	10	10	200	17

CAD reference point

18/09/2012

EVERY STEP OF THE WAY

Euro Push-to-Lock

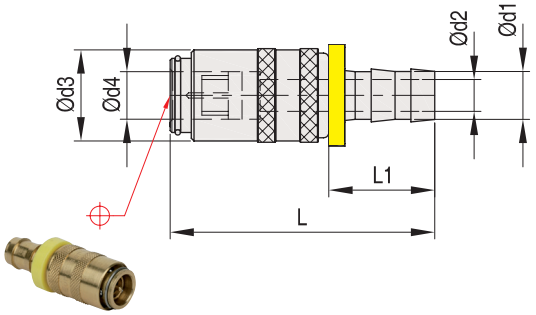
DME Euro Series sockets used with special Push-to-Lock™ hose do not require the use of a hose clamp for hose retention. The special hose is simply pushed onto the stem and will stay on without any additional fasteners, even under conditions of severe temperature, vibration and pressure. The sockets have a yellow plastic collar, purely for identification, to cover the cut end of the hose.

Euro sockets are compatible with standard sockets/plugs. They are made of exactly the same brass and use the same high quality Viton seals.

Use special Push-to-Lock™ hose (PTLH) only. Euro connector sockets are for use with water and water-based coolants only. Although the Sockets are suitable for temperatures to 200°C observe the temperature ratings of the hose (standard 85°C). Never exceed 13 bar

MK 10 - PL

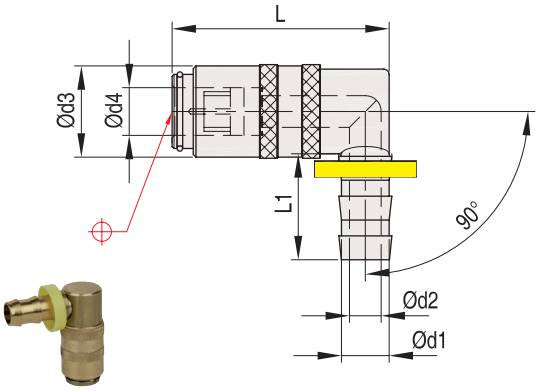
Quick Release coupling straight with valve "Push-to-Lock" Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 10 - 9V - PL	10	7,5	17	9	54	24	15	200
MK 10 - 13V - PL	13	10	23	13	64	28	10	200

MK 15 - PL

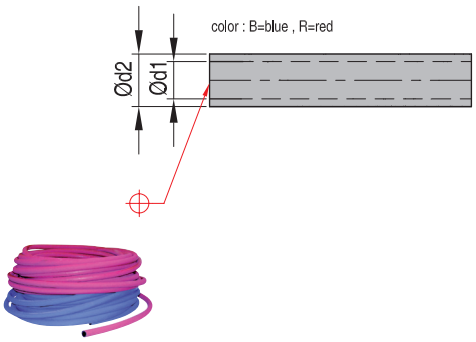
Quick Release coupling 90° with valve "Push-to-Lock" Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 15 - 9V - PL	10	7,5	17	9	42	24	15	200
MK 15 - 13V - PL	13	10	23	13	52	28	10	200

PTLH

"Push-to-Lock" Hoses Mat.: Mixture of synthetic elastomers, black smooth



REF	d1	d2	Pmax.	T (°C)	Info
PTLH 10 R	3/8"	16	20bar	-35->85	20m roll
PTLH 10 B	3/8"	16	20bar	-35->85	20m roll
PTLH 13 R	1/2"	19	20bar	-35->85	20m roll
PTLH 13 B	1/2"	19	20bar	-35->85	20m roll

CAD reference point

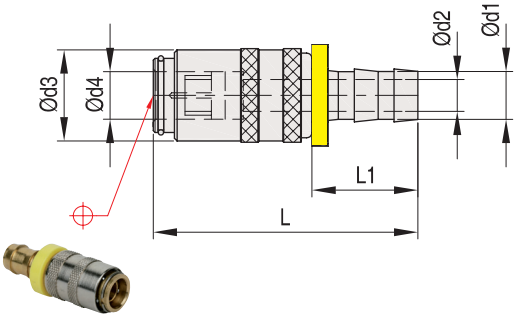
18/09/2012

Quick Release coupling straight "Push-to-Lock"

Mat.: Brass, O-ring: Viton

MK 100 - PL

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 100 - 9 - PL	10	7,5	17	9	54	24	15	200
MK 100 - 13 - PL	13	10	23	13	64	28	10	200

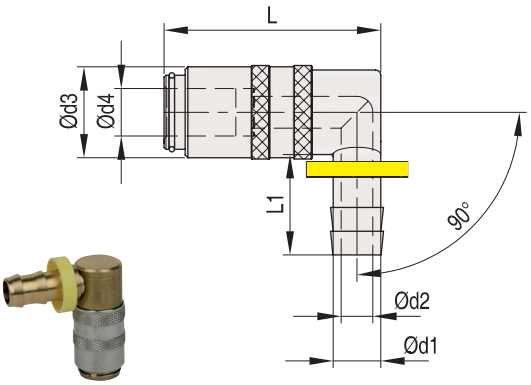


Quick Release coupling 90° "Push-to-Lock"

Mat.: Brass, O-ring: Viton

MK 150 - PL

REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MK 150 - 9 - PL	10	7,5	17	9	42	24	15	200
MK 150 - 13 - PL	13	10	23	13	52	28	10	200

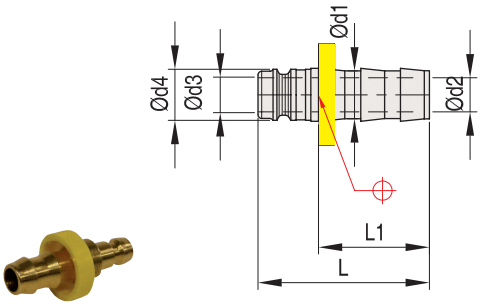


Hose Nipples "Push-to-Lock"

Mat.: Brass

ST 12 - PL

REF	d1	d2	d3	d4	L1	L
ST 12 9 - PL	10	7,5	6	9	24	44
ST 12 13 - PL	13	10	9	13	28	45

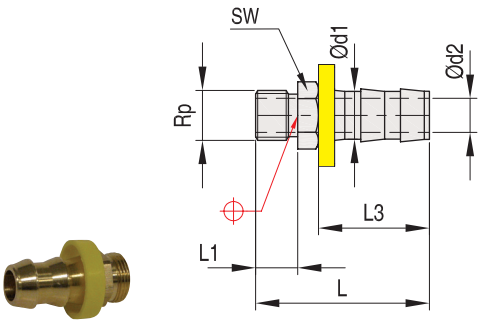


Hose Nipples "Push-to-Lock"

Mat.: Brass

HN - PL

REF	Rp	d1	d2	L	L1	L3	SW
HN R1/8 - PL	R1/8" BSP	10	6	39	9	24	17
HN M10x1 - PL	M10x1	10	6	39	9	24	17
HN M14x1,5 - PL	M14x1,5	12,7	9	45	11	28	17
HN R1/4 - PL	R1/4" BSP	12,7	9	45	11	28	17
HN R3/8 - PL	R3/8" BSP	12,7	10	45	11	28	19
HN R1/2 - PL	R1/2" BSP	12,7	10	49	14	28	22

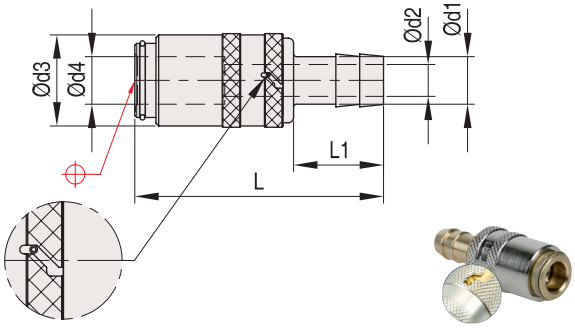


CAD reference point

18/09/2012

MKS 100

Quick Release safety coupling straight — Mat.: Brass, O-ring: Viton

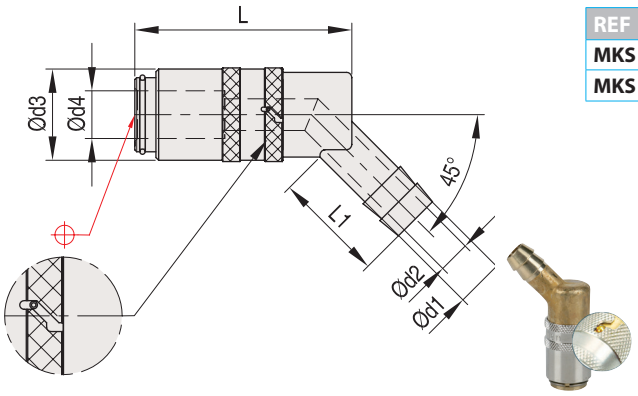


REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKS 100 - 9	9	6	17	9	47	17	15	200
MKS 100 - 13	13	9	22	13	61	25	10	200

- Extra bayonet-safety sleeve prevents accidental unlocking
- Unlocking is only possible by turning the sleeve when opening

MKS 120

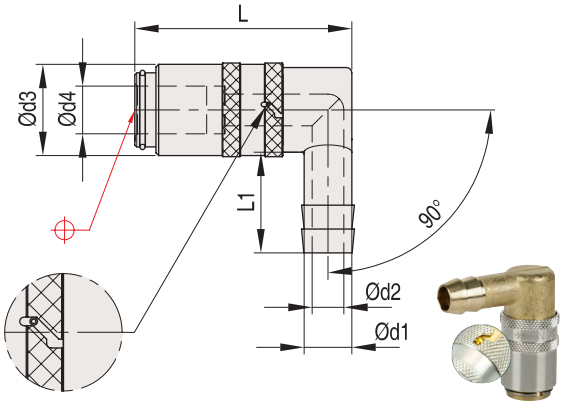
Quick Release safety coupling 45° — Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKS 120 - 9	9	6	17	9	41	17	15	200
MKS 120 - 13	13	9	22	13	51	25	10	200

MKS 150

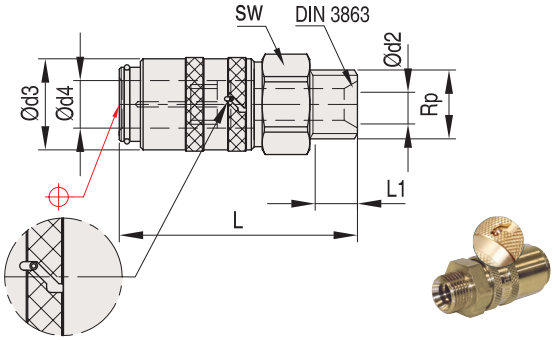
Quick Release safety coupling 90° — Mat.: Brass, O-ring: Viton



REF	d1	d2	d3	d4	L	L1	P (bar)	T (°C)
MKS 150 - 9	9	6	17	9	41	19	15	200
MKS 150 - 13	13	9	22	13	51	28	10	200

MKS 200

Quick Release safety coupling straight with valve and thread — Mat.: Brass, O-ring: Viton



REF	Rp	d2	d3	d4	L	L1	P (bar)	T (°C)	SW
MKS 200 9-M14x1,5	M14x1,5	6	17	9	48	9	15	200	17
MKS 200 13-M16x1,5	M16x1,5	9	23	13	52	9	10	200	22

CAD reference point

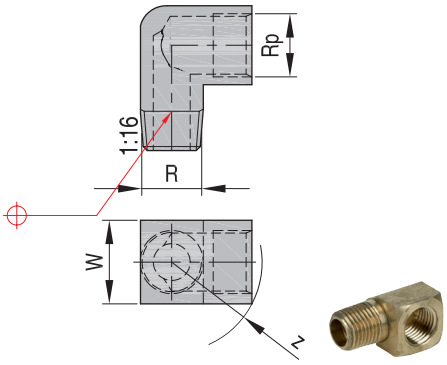
18/09/2012

90° BSP Elbows

Mat.: Brass

200 / 300 / 500 - 90°

REF	R	Rp	W	Z
200 - 90 / BSP	1/8" BSPT	1/8" BSP	13	13
300 - 90 / BSP	1/4" BSPT	1/4" BSP	18	18
500 - 90 / BSP	1/2" BSPT	1/2" BSPT	26	27

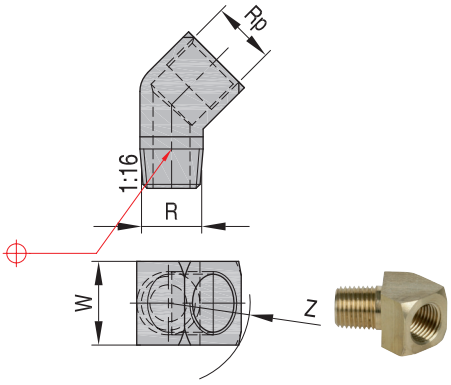


45° BSP Elbows

Mat.: Brass

200 / 300 / 500 - 45°

REF	R	Rp	W	Z
200 - 45 / BSP	1/8" BSPT	1/8" BSP	13	13
300 - 45 / BSP	1/4" BSPT	1/4" BSP	18	18
500 - 45 / BSP	1/2" BSPT	1/2" BSPT	24	23

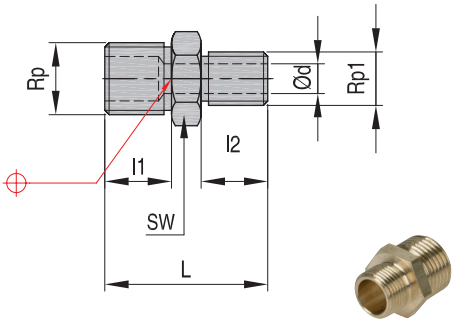


Double nipples

Mat.: Brass

FDN

REF	Rp	Rp1	L	l1	l2	d	SW
FDN-3814	3/8" BSP	1/4" BSP	27	11	11	6,5	19
FDN-3812	1/2" BSP	3/8" BSP	30	12	9	12	22
FDN-1212	1/2" BSP	1/2" BSP	33	12	12	14	22

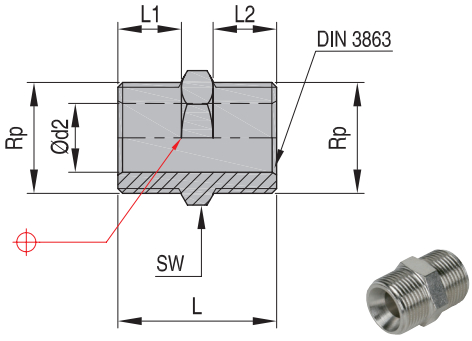


Double nipples

Mat.: Brass

ST 16

REF	Rp	d2	L	L1	L2	SW
ST16 M14x1,5	M14x1,5	6	23	9	9	17
ST16 R1/4"	1/4" BSP	6	23	9	9	17
ST16 M16x1,5	M16x1,5	9	23	9	9	19
ST16 R3/8"	3/8" BSP	9	23	9	9	19
ST16 M24x1,5	M24x1,5	13	40	16	16	27
ST16 R1/2"	1/2" BSP	13	30	12	12	22
ST16 R3/4"	3/4" BSP	13	40	16	16	27

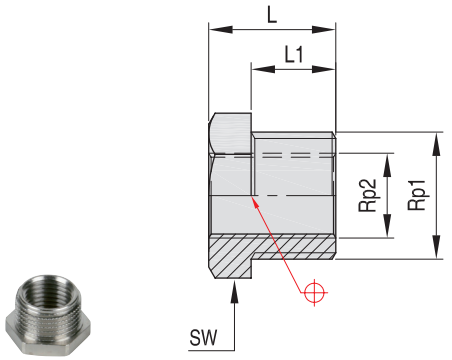


CAD reference point

18/09/2012

ST 17

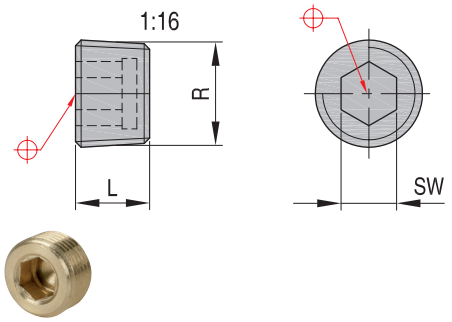
Reducing nipples — Mat.: Brass



REF	Rp1	Rp2	L	L1	SW
ST17 M14x1,5 - M10x1	M14x1,5	M10x1	11	7	17
ST17 M18x1,5 - M14x1,5	M18x1,5	M14x1,5	14	9	22
ST17 R1/4" - R1/8"	1/4" BSP	1/8" BSP	11	7	17
ST17 R3/8" - R1/4"	3/8" BSP	1/4" BSP	13	9	19
ST17 R1/2" - R3/8"	1/2" BSP	3/8" BSP	18	12	24
ST17 M24x1,5 - M16x1,5	M24x1,5	M16x1,5	24	16	27

AN

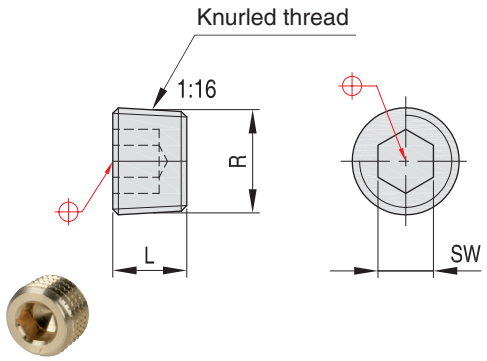
Pressure plugs — Mat.: Brass



REF	R	L	SW
AN - 8	1/8" BSPT	8	5
AN - 4	1/4" BSPT	10	7
AN - 3	3/8" BSPT	10	8
AN - 10	M10 x 1	8	5
AN - 2	1/2" BSPT	10	10

V

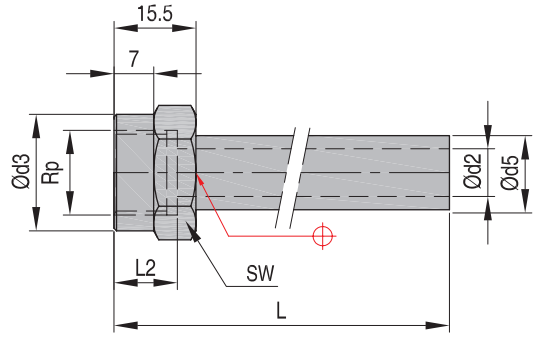
Knurled Pressure plugs — Mat.: Brass



REF	R	L	SW
V 360 M8x0,75	M8x0,75	8	4
V 361 M10x1	M10x1	8	5
V 362 R1/8"	1/8" BSPT	8	5
V 363 R1/4"	1/4" BSPT	10	7
V 364 R3/8"	3/8" BSPT	10	8
V 365 M12x1,5	M12x1,5	8	6
V 366 M14x1,5	M14x1,5	10	7
V 367 R1/2"	1/2" BSPT	10	10

ST 155

Extension pipes — Mat.: Brass



REF	Rp	L	L1	d2	d3	d5	L2	SW
ST155-120-M14x1,5	M14x1,5	120	7	6	16	10	12	17
ST155-240-M14x1,5	M14x1,5	240	7	6	16	10	12	17
ST155-150-M16x1,5	M16x1,5	150	7	9	21	14	12	22
ST155-300-M16x1,5	M16x1,5	300	7	9	21	14	12	22

CAD reference point

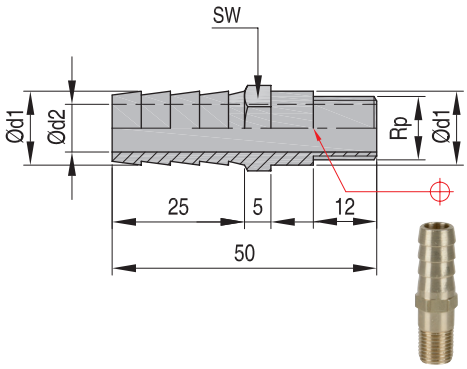
18/09/2012

Hose nipples

Mat.: Brass

GW Z

REF	Rp	d1	d2	SW
GW 299 Z M8 x 0,75	M8 x 0,75	9,5	4,5	12
GW 300 Z M10 x 1	M10 x 1	12,0	6,0	12
GW 302 Z R1/8"	1/8" BSP	7,0	3,5	12
GW 305 Z R1/8"	1/8" BSP	12,0	6,0	12
GW 307 Z R1/4"	1/4" BSP	7,0	3,5	14
GW 310 Z R1/4"	1/4" BSP	14,0	9,0	14
GW 315 Z M10	M10	12,0	6,0	12
GW 320 Z M12 x 1,5	M12x1,5	11,8	8,0	12

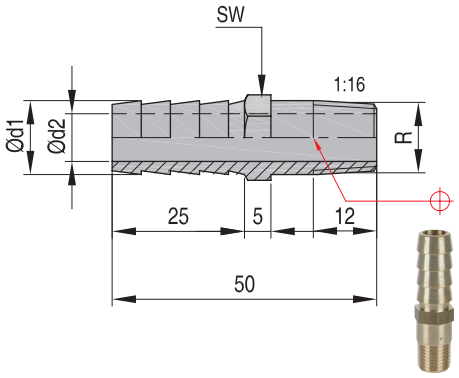


Hose nipples

Mat.: Brass

GW K

REF	R	d1	d2	SW
GW 301K M10x1	M10x1	12	6	12
GW 306 K R1/8"	1/8" BSPT	12	6	12
GW 311 K R1/4"	1/4" BSPT	14	9	14

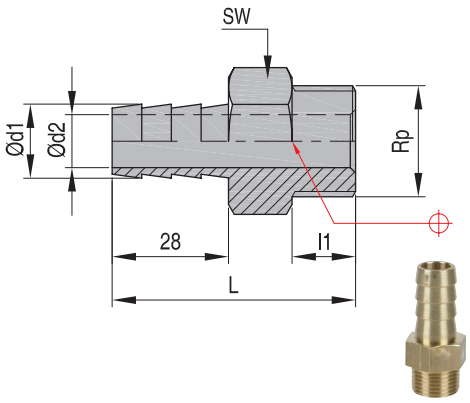


Hose nipples

Mat.: Brass

GW

REF	Rp	d1	d2	L	l1	SW
GW 330 R3/8"	3/8" BSP	14	10	44	10	19
GW 340 R1/2"	1/2" BSP	14	10	46	12	22

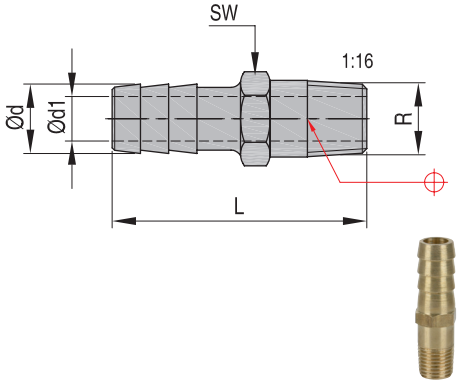


Hose nipples

Mat.: Brass

SST

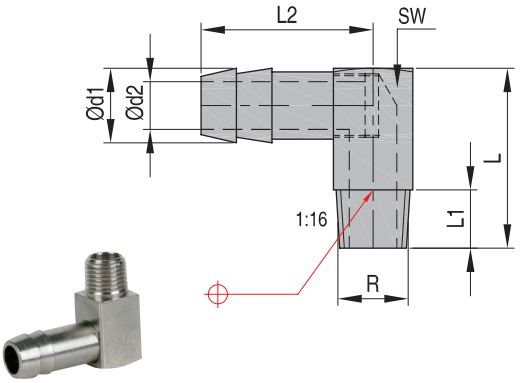
REF	R	d1	d	L	SW
SST-12-1/8K	1/8" BSPT	6	12	50	12
SST-12-1K	M10 x 1	6	12	50	12
SST-14-1/4K	1/4" BSPT	9	14	54	14



CAD reference point

18/09/2012

GW

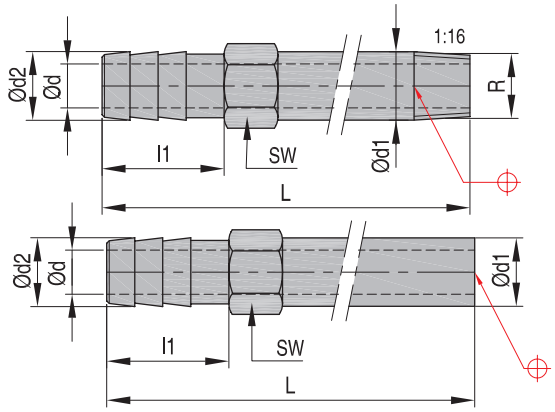


Angle Hose nipples

Mat.: Brass

REF	R	d1	d2	L	L1	L2	SW
GW 500 M10x1	M10x1	9	6,0	27	9	23,5	11
GW 510 R1/8"	1/8"BSPT	9	6,0	27	9	23,5	11
GW 520 M8x0,75	M8x0,75	9	4,5	27	9	23,5	11
GW 530 M14x1,5	M14x1,5	13	9,0	34	9	32,5	15
GW 540 R1/4"	1/4"BSPT	13	9,0	34	9	32,5	15

BSS

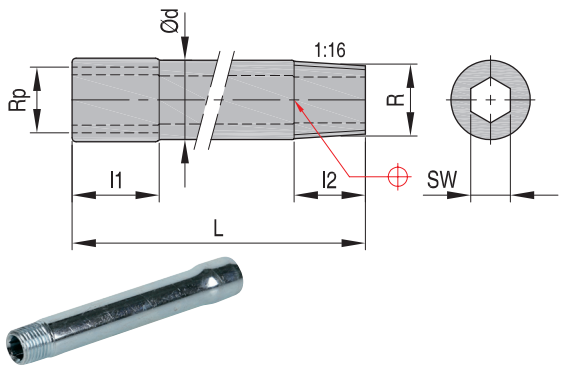


Brass extension pipes

Mat.: Brass

REF	R	L	l1	d	d1	d2	SW
BSS-1810	1/8"BSPT	100	17	6	10	10	11
BSS-1815	NO THREAD	150	17	6	10	10	11
BSS-1825	NO THREAD	250	17	6	10	10	11
BSS-1415	1/4"BSPT	150	25	9	14	14	15
BSS-1425	NO THREAD	250	25	9	14	14	15

ET

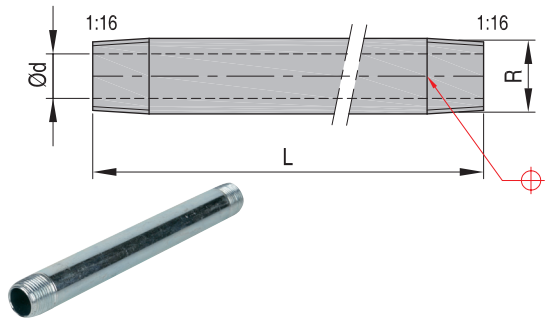


Extension Pipe Hex Key

Mat.: Zinc plated steel

REF	R	Rp	L	d	l1	l2	SW
ET 18050	1/8"BSPT	1/8"BSP	50	10	11	9	5
ET 18100	1/8"BSPT	1/8"BSP	100	10	11	9	5
ET 18150	1/8"BSPT	1/8"BSP	150	10	11	9	5
ET 14050	1/4"BSPT	1/4"BSP	50	14	12	10	8
ET 14100	1/4"BSPT	1/4"BSP	100	14	12	10	8
ET 14150	1/4"BSPT	1/4"BSP	150	14	12	10	8

VL



Extension pipes

Mat.: Zinc plated steel

REF	R	d	L
VL 1/8" x 50	1/8"BSPT	6	50
VL 1/8" x 100	1/8"BSPT	6	100
VL 1/8" x 150	1/8"BSPT	6	150
VL 1/8" x 200	1/8"BSPT	6	200
VL 1/4" x 50	1/4"BSPT	9	50
VL 1/4" x 100	1/4"BSPT	9	100
VL 1/4" x 150	1/4"BSPT	9	150
VL 1/4" x 200	1/4"BSPT	9	200
VL 3/8" x 100	3/8"BSPT	12	100
VL 3/8" x 150	3/8"BSPT	12	150
VL 3/8" x 200	3/8"BSPT	12	200
VL 1/2" x 100	1/2"BSPT	16	100
VL 1/2" x 150	1/2"BSPT	16	150
VL 1/2" x 200	1/2"BSPT	16	200

CAD reference point

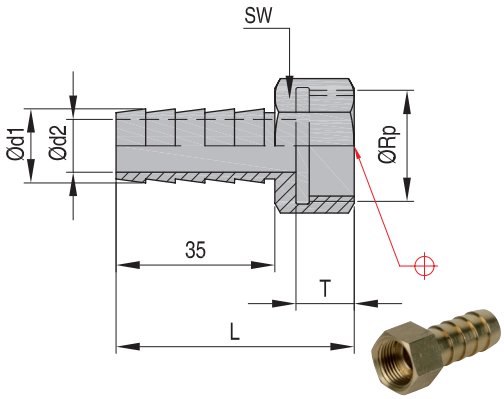
18/09/2012

Hose nipples

Mat.: Brass

GW

REF	Rp	d1	d2	L	T	SW
GW 350 R3/8"	3/8" BSP	14	10	43	9	19
GW 360 R1/2"	1/2" BSP	14	10	45	11	24



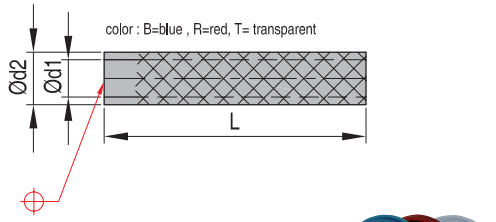
Hoses

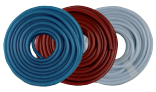
Mat.: Nylon reinforced

GS 1090

REF L	d1	d2	Pmax.20°C	Pmax.40°C	Pmax.60°C	R*	L
GS 1090 6 T	6	12	22bar	16bar	8bar	R min=36 mm	25
GS 1090 8 T	8	13	20bar	14bar	7bar	R min=54 mm	50
GS 1090 9 B	10	15	20bar	14bar	7bar	R min=74 mm	25
GS 1090 9 R	10	15	20bar	14bar	7bar	R min=74 mm	25
GS 1090 13 B	12,5	18	18bar	12bar	6bar	R min=90 mm	25
GS 1090 13 R	12,5	18	18bar	12bar	6bar	R min=90 mm	25

R* = bending radius





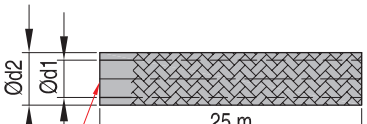
Hoses *(not for vacuum)*

Mat.: Viton

VM 200

REF	d1	d2	Pmax.	T (°C)	R*
VM 200 9	9	13,5	20bar	200	R min=50 mm
VM 200 13	13	18,0	20bar	200	R min=60 mm

R* = bending radius



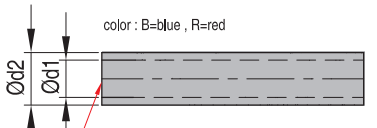
"Push-to-Lock" Hoses

Mat.: Mixture of synthetic elastomers, black smooth

PTLH

REF	d1	d2	Pmax.	T (°C)	Info	R*
PTLH 10 R	3/8"	16	20bar	-35->85	20m roll	R min=70 mm
PTLH 10 B	3/8"	16	20bar	-35->85	20m roll	R min=70 mm
PTLH 13 R	1/2"	19	20bar	-35->85	20m roll	R min=84 mm
PTLH 13 B	1/2"	19	20bar	-35->85	20m roll	R min=84 mm

R* = bending radius

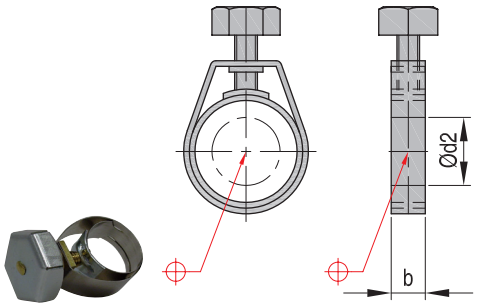


CAD reference point

18/09/2012

US 1600

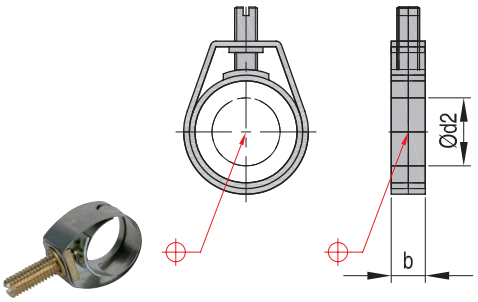
Hose clamps — Mat.: St (CrNi)



REF	d2	b
US 1600 1	7-12	10
US 1600 2	9-14	11
US 1600 3	10-15	11
US 1600 4	12-17	11
US 1600 5	14-19	11
US 1600 6	16-21	11
US 1600 7	17-22	11
US 1600 8	20-25	11

US 1650

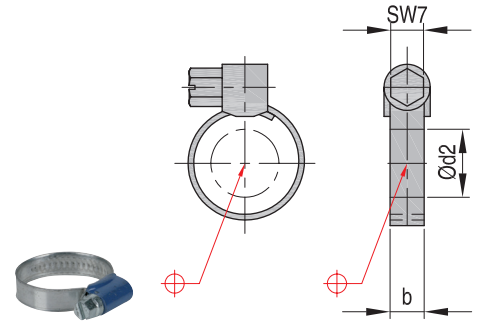
Hose clamps — Mat.: St (CrNi)



REF	d2	b
US 1650 1	7-12	10
US 1650 2	9-14	11
US 1650 3	10-15	11
US 1650 4	12-17	11
US 1650 5	14-19	11
US 1650 6	16-21	11
US 1650 7	17-22	11
US 1650 8	20-25	11

US 1700

Hose clamps — Mat.: St DIN 3017

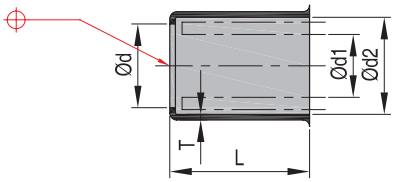


REF	d2	b
US 1700 1	8-12	9
US 1700 2	10-16	9
US 1700 3	12-20	9
US 1700 4	16-25	9
US 1700 5	20-32	9

CAD reference point

18/09/2012

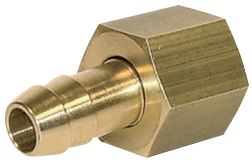
Press-fit assembly sleeves — MH 1

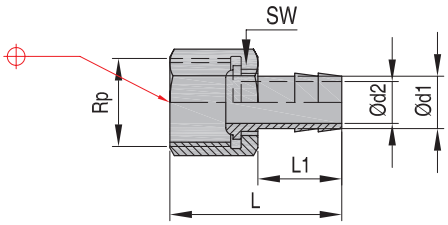


REF	d1	d2	d	L	T
MH 1 - 9 - 15,5	9	15,5	12	20	0,8
MH 1 - 13 - 19	13	19,0	14	26	0,9
MH 1 - 13 - 23	13	23,0	17	32	0,9

2-piece hose nipple for MH1 — ST 19

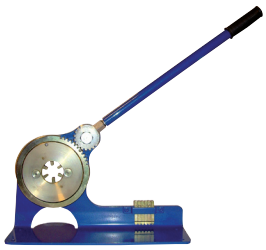
Mat.: Brass

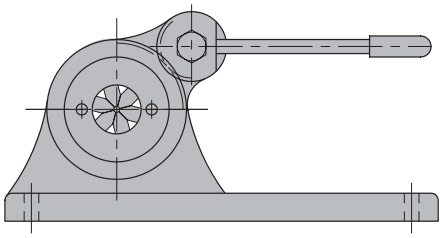




REF	Rp	d1	d2	L	L1	SW
ST 19 - 9 - M14x1,5	M14x1,5	9	6	34,5	19	17
ST 19 - 9 - R1/4"	1/4"BSP	9	6	34,5	19	17
ST 19 - 13 - M16x1,5	M16x1,5	13	9	41,0	27	22
ST 19 - 13 - R3/8"	3/8"BSP	13	9	41,0	27	22

Hose assembly tool — SM 1





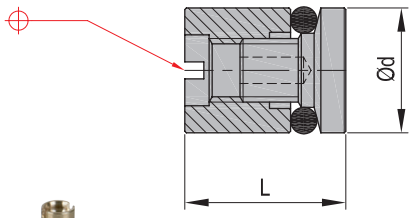
REF
SM 1

CAD reference point

18/09/2012

WV

Threadless turn off Pressure plugs — Mat.: Brass, O-ring: Viton



REF	L	d	BORE HOLE d H13	Installation Key
WV 006	15	6	6	WV106 / WV306
WV 007	15	7	7	WV107 / WV307
WV 008	15	8	8	WV108 / WV308
WV 010	15	10	10	WV110 / WV310
WV 012	15	12	12	WV112 / WV312

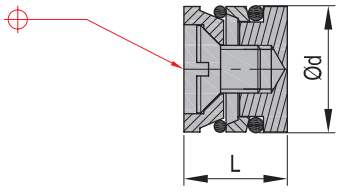
WV

Installation key, plug extractor incl. — Mat.: Tool steel

REF	for plug d	L
WV106	6	150
WV107	7	150
WV108	8	150
WV110	10	150
WV112	12	150
WV306	6	300
WV307	7	300
WV308	8	300
WV310	10	300
WV312	12	300

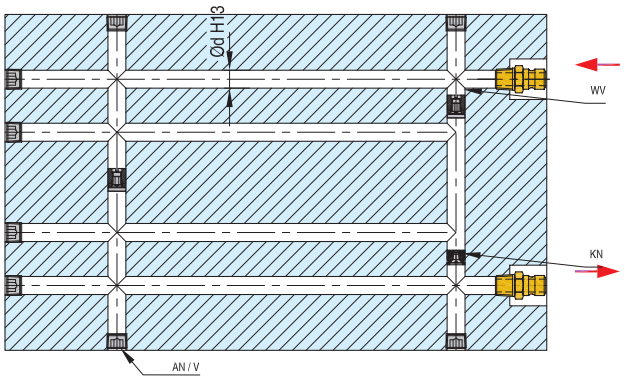
KN 105

Threadless Pressure plugs — Mat.: Brass, O-ring: Viton



REF	L	d	BORE HOLE d H13	Pmax	T (°C)
KN 105 6	10	6	6	10	200
KN 105 7	10	7	7	10	200
KN 105 8	11	8	8	10	200
KN 105 10	11	10	10	10	200
KN 105 12	11	12	12	10	200
KN 105 14	13	14	14	10	200
KN 105 16	13	16	16	10	200

Installation Instructions KN-WV-AN-V



CAD reference point

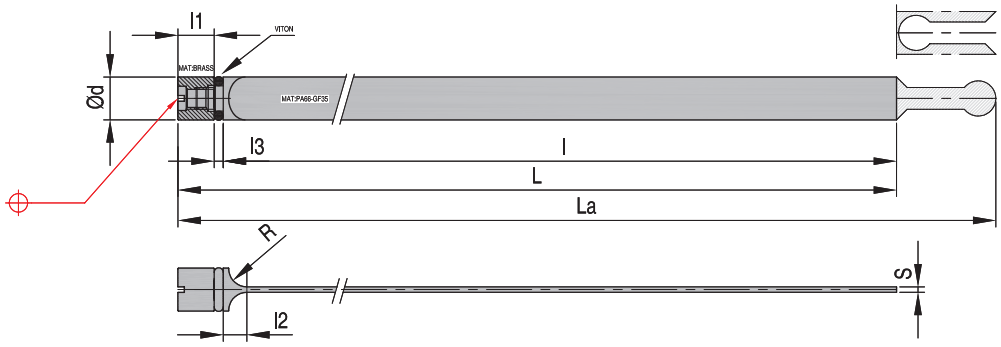
18/09/2012

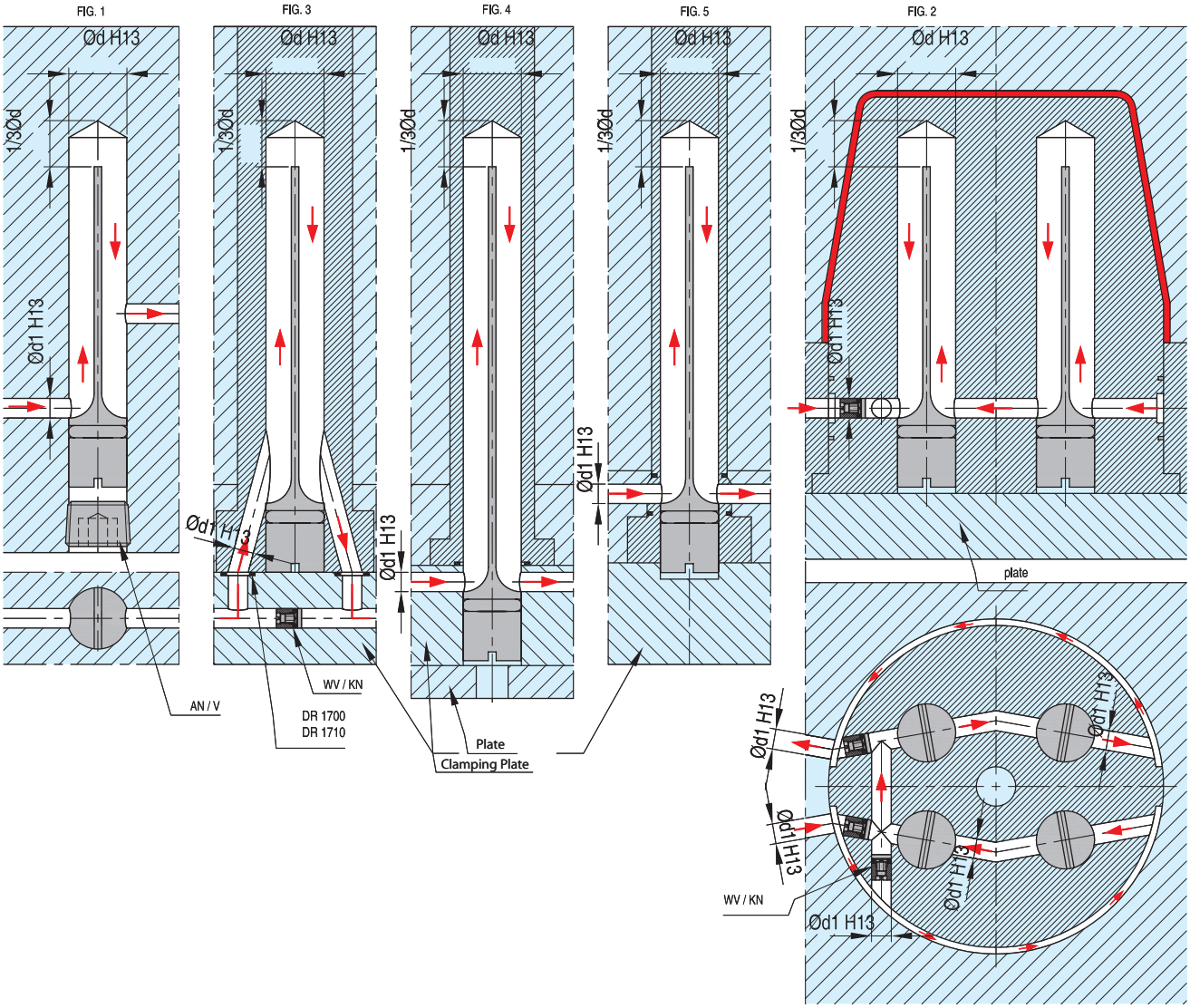
Baffle ribs

T Max.: 200°C

WV 700

REF	d	La	L	l	l1	l2	l3	S	R	o-ring	d1 H13	Installation Key
WV 700 6 200	6	-	208	200	6,0	3,5	2,0	1,0	2,4	2x	4	WV106 / WV306
WV 700 6 320	6	320	313	305	6,0	3,5	2,0	1,0	2,4	2x	4	WV106 / WV306
WV 700 8 200	8	-	210	200	6,0	3,5	2,0	1,0	3,4	2x	5	WV108 / WV308
WV 700 8 320	8	320	315	305	6,0	4,5	4,0	1,0	3,4	2x	5	WV108 / WV308
WV 700 10 200	10	-	209	200	7,0	5,0	3,0	1,5	3,5	1x	6	WV110 / WV310
WV 700 10 320	10	320	315	305	7,0	5,0	3,0	1,5	3,5	1x	6	WV110 / WV310
WV 700 12 200	12	-	212	200	9,0	6,0	3,0	1,5	4,5	1x	8	WV112 / WV312
WV 700 12 320	12	320	316	305	9,0	6,0	3,0	1,5	4,5	1x	8	WV112 / WV312
WV 700 14 200	14	-	213	200	10,5	7,5	2,5	1,5	5,5	1x	10	WV112 / WV312
WV 700 14 320	14	320	318	305	10,5	7,5	2,5	1,5	5,5	1x	10	WV112 / WV312





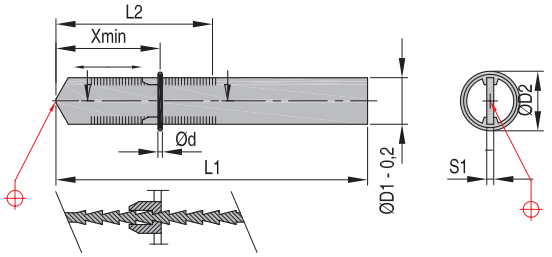
CAD reference point

18/09/2012

BBP - BBJ

Plastic baffle ribs

Mat.: High temperature resistant plastic

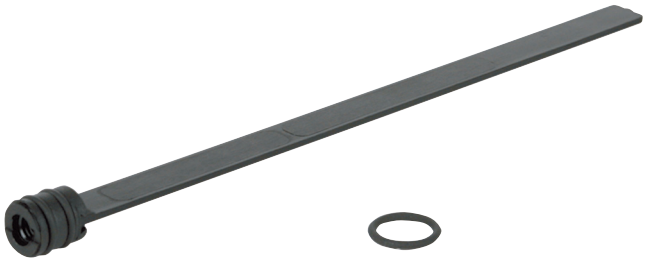


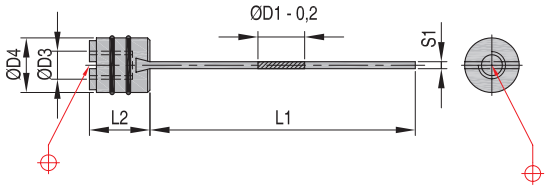
REF	D1	D2	L1	L2	X min.	S1	S2	d	REF. O-RINGE (VITON 200°C)
BBP 0001	10	17	220	55	12	1,5	2,0	2,4	BBJ 0001
BBP 0002	15	22	300	70	16	1,8	2,0	2,4	BBJ 0002
BBP 0003	20	28	350	90	20	2,0	2,4	2,9	BBJ 0003
BBP 0004	25	33	380	115	24	2,2	2,4	2,9	BBJ 0004

BBP - BBJ

Plastic baffle ribs

Mat.: High temperature resistant plastic



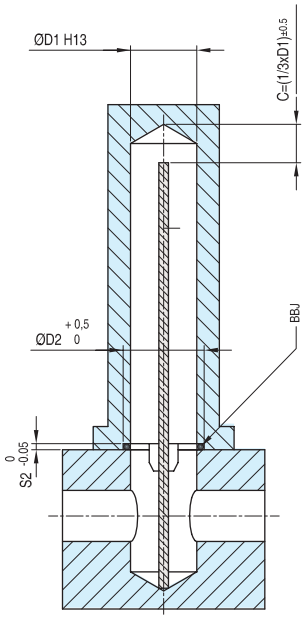


REF	D1	D2	D3	D4	L1	L2	S1	REF. O-RINGE (VITON 200°C)
BBP 0101	10	12	M6	11,7	180	13	1,5	BBJ0101
BBP 0102	15	16	M8	15,7	250	16	1,8	BBJ0102
BBP 0103	20	22	M12	21,7	300	20	2,0	BBJ0103
BBP 0104	25	26	M16	25,7	390	22	2,2	BBJ0104

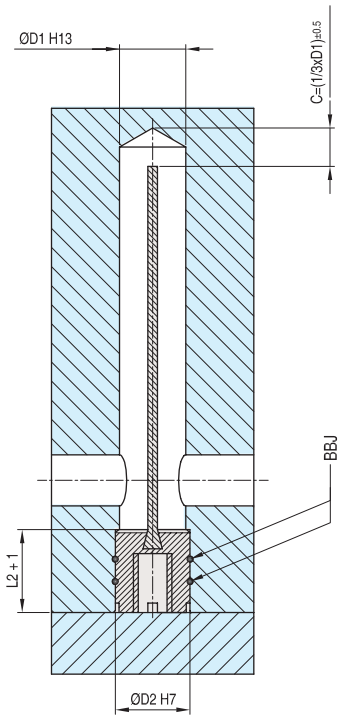
CAD reference point

18/09/2012

Installation Instructions BBP



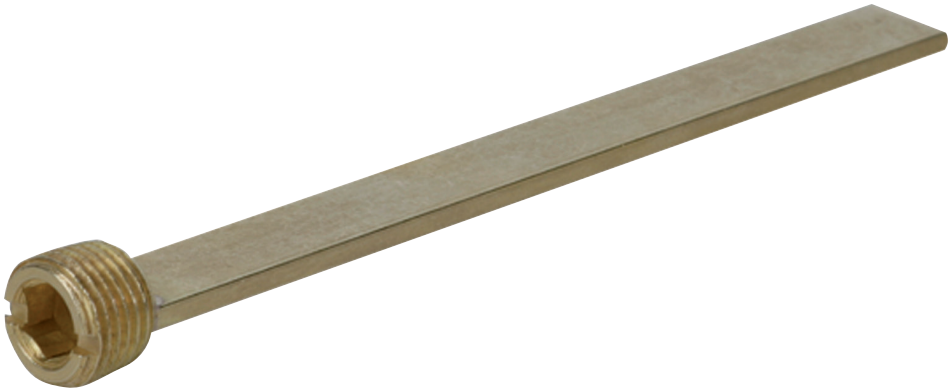
Installation Instructions BBP

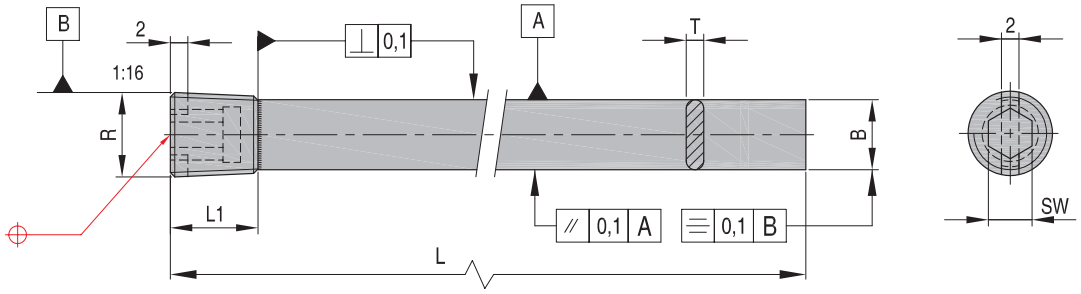


18/09/2012

BB

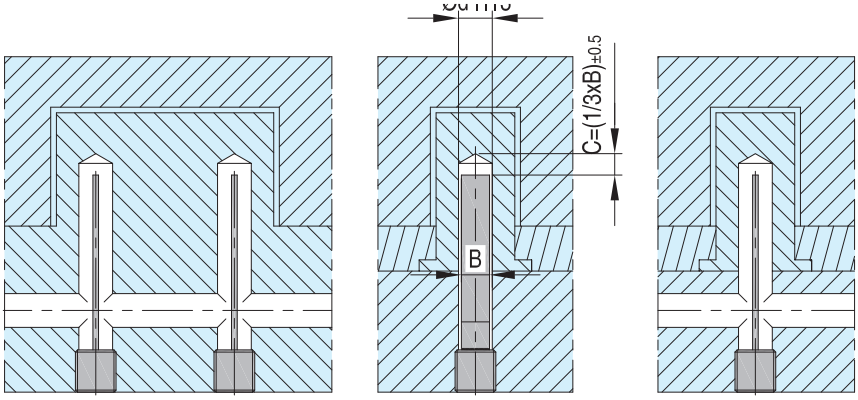
Brass plug baffles Mat.: Brass





REF	R	B	L	L1	T	d	SW
BB-100-1/8	1/8" BSPT	8,2	104	8	1,6	8,5	5
BB-200-1/8	1/8" BSPT	8,2	204	8	1,6	8,5	5
BB-125-1/4	1/4" BSPT	11,2	131	10	2,4	11,5	7
BB-250-1/4	1/4" BSPT	11,2	258	10	2,4	11,5	7
BB-150-3/8	3/8" BSPT	14,7	156	10	2,4	15,0	8
BB-300-3/8	3/8" BSPT	14,7	309	10	2,4	15,0	8
BB-200-1/2	1/2" BSPT	18,2	207	10	2,4	18,5	10
BB-400-1/2	1/2" BSPT	18,2	410	10	2,4	18,5	10
BB-300-3/4	3/4" BSPT	23,2	309	12	3,2	23,5	12
BB-500-3/4	3/4" BSPT	23,2	512	12	3,2	23,5	12

Brass Plug Baffles are constructed entirely of high quality brass with blades brazed to the plugs for long, dependable service. They provide a high pressure seal through a deliberate difference of taper between the plug and the tapped hole.Spiral baffles improve cooling balance by creating turbulent action in the channel providing efficient coolant movement.



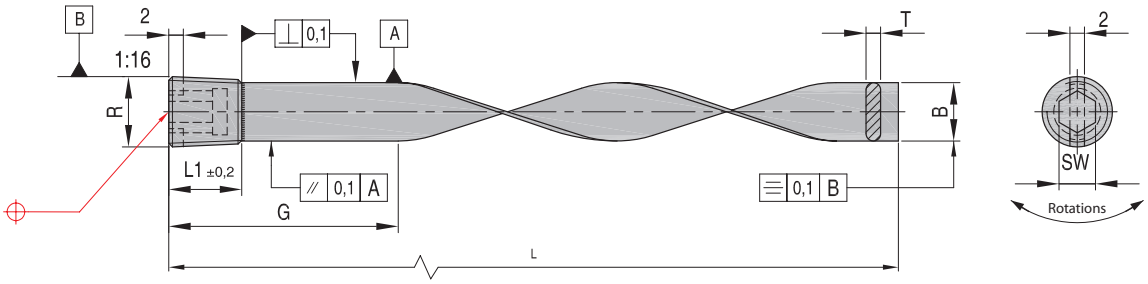
CAD reference point

18/09/2012

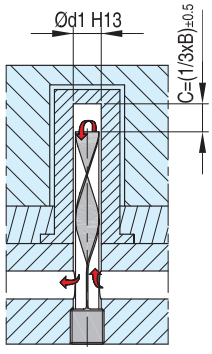
Spiral brass plugs baffles

Mat.: Brass

BBS



REF	R	G	B	L	L1	T	d1	ROTATIONS	SW
BBS-100-1/16	1/16" BSPT	51	6,2	102	8	1,6	6,5	360°	4
BBS-200-1/16	1/16" BSPT	102	6,2	202	8	1,6	6,5	540°	4
BBS-100-1/8	1/8" BSPT	51	8,2	102	8	1,6	8,5	360°	5
BBS-200-1/8	1/8" BSPT	102	8,2	202	8	1,6	8,5	540°	5
BBS-125-1/4	1/4" BSPT	51	11,2	127	10	2,4	11,5	360°	7
BBS-250-1/4	1/4" BSPT	102	11,2	252	10	2,4	11,5	540°	7
BBS-150-3/8	3/8" BSPT	51	14,7	152	10	2,4	15,0	360°	8
BBS-300-3/8	3/8" BSPT	102	14,7	302	10	2,4	15,0	540°	8
BBS-200-1/2	1/2" BSPT	76	18,2	203	10	2,4	18,5	360°	10
BBS-400-1/2	1/2" BSPT	127	18,2	402	10	2,4	18,5	540°	10
BBS-300-3/4	3/4" BSPT	102	23,2	302	12	3,2	23,5	360°	12
BBS-500-3/4	3/4" BSPT	153	23,2	502	12	3,2	23,5	540°	12
BBS-400-1	1" BSPT	127	28,2	402	12	3,2	28,5	360°	17
BBS-600-1	1" BSPT	203	28,2	602	12	3,2	28,5	540°	17

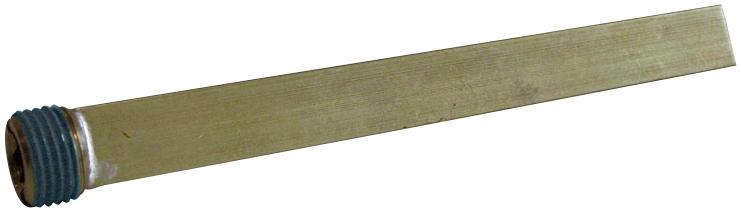


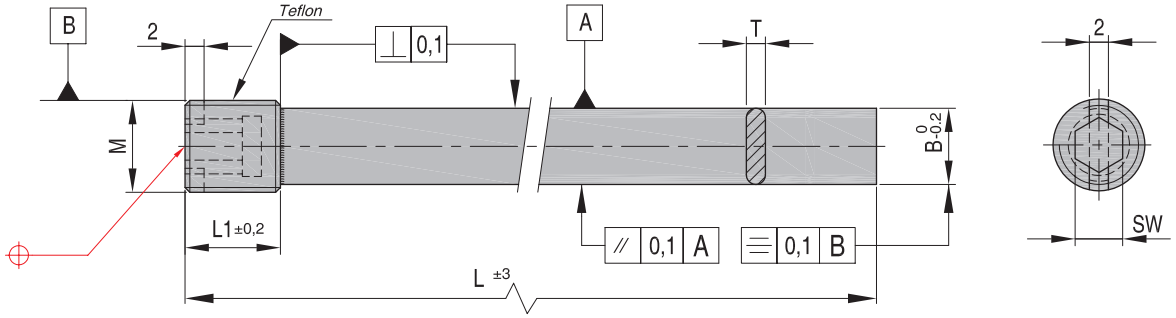
CAD reference point

18/09/2012

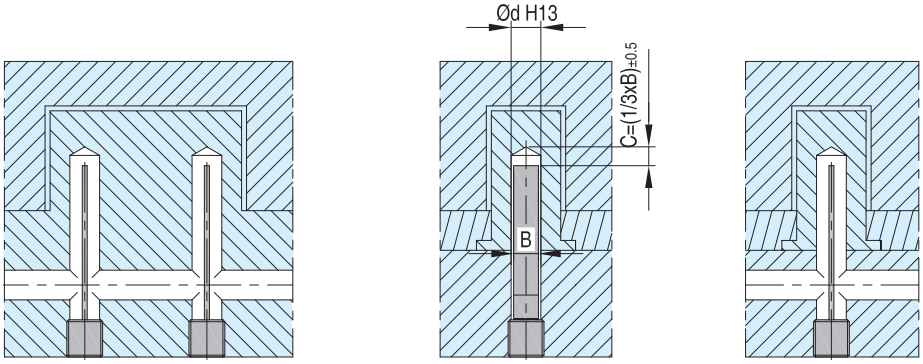
BB

Brass plug baffles Mat.: Brass





REF	M	SW	B	L	L1	T	d
BB-100-M8x0,75	M8x0,75	4	5,8	104	8	1,6	6
BB-200-M8x0,75	M8x0,75	4	5,8	204	8	1,6	6
BB-100-M10x1	M10x1	5	7,8	104	8	1,6	8
BB-200-M10x1	M10x1	5	7,8	204	8	1,6	8
BB-125-M12x1,5	M12x1,5	6	9,8	129	8	2,0	10
BB-250-M12x1,5	M12x1,5	6	9,8	254	8	2,0	10
BB-150-M16x1,5	M16x1,5	8	13,8	154	10	2,4	14
BB-300-M16x1,5	M16x1,5	8	13,8	304	10	2,4	14
BB-150-M20x1,5	M20x1,5	10	17,8	154	10	2,4	18
BB-200-M20x1,5	M20x1,5	10	17,8	304	10	2,4	18
BB-300-M20x1,5	M20x1,5	10	17,8	204	10	2,4	18
BB-400-M20x1,5	M20x1,5	10	17,8	404	10	2,4	18
BB-150-M24x2	M24x2	12	19,8	154	12	2,5	20
BB-300-M24x2	M24x2	12	19,8	304	12	2,5	20



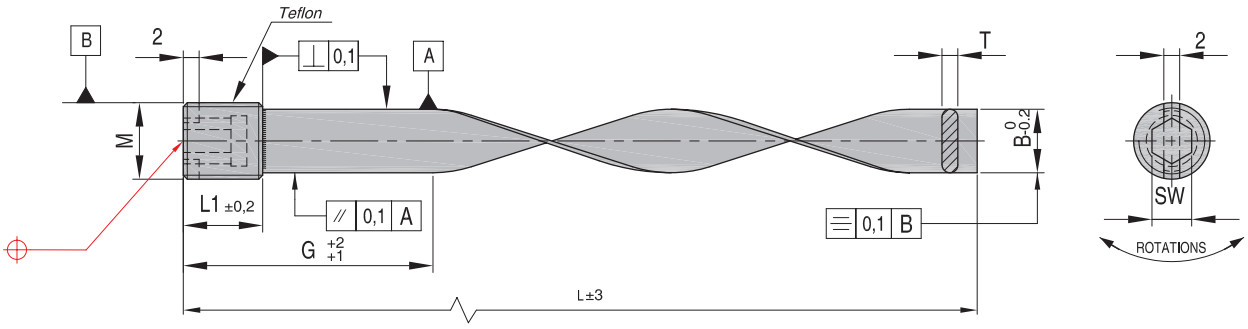
CAD reference point

18/09/2012

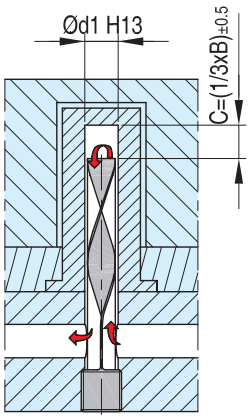
Spiral brass plugs baffles

Mat.: Brass

BBS



REF	M	G	SW	B	L	L1	T	2D1	Rotations
BBS-100-M8x0,75	M8x0,75	50	4	5,8	102	8	1,6	6	360°
BBS-200-M8x0,75	M8x0,75	100	4	5,8	202	8	1,6	6	540°
BBS-300-M8x0,75	M8x0,75	150	4	5,8	302	8	1,6	6	720°
BBS-100-M10x1	M10x1	50	5	7,8	102	8	1,6	8	360°
BBS-200-M10x1	M10x1	100	5	7,8	202	8	1,6	8	540°
BBS-300-M10x1	M10x1	150	5	7,8	302	8	1,6	8	720°
BBS-125-M12x1,5	M12x1,5	50	6	9,8	127	8	2,0	10	360°
BBS-250-M12x1,5	M12x1,5	100	6	9,8	252	8	2,0	10	540°
BBS-150-M16x1,5	M16x1,5	50	8	13,8	152	10	2,4	14	360°
BBS-300-M16x1,5	M16x1,5	100	8	13,8	302	10	2,4	14	540°
BBS-150-M20x1,5	M20x1,5	50	10	17,8	152	10	2,4	18	360°
BBS-300-M20x1,5	M20x1,5	100	10	17,8	302	10	2,4	18	540°
BBS-150-M24x2	M24x2	50	12	19,8	152	12	2,5	20	180°
BBS-300-M24x2	M24x2	100	12	19,8	302	12	2,5	20	540°



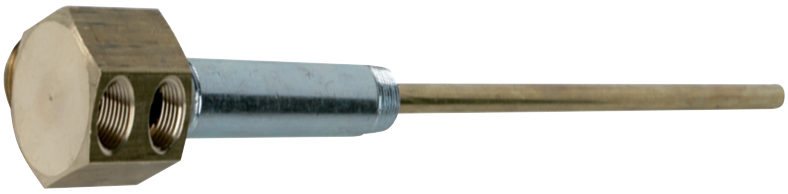
CAD reference point

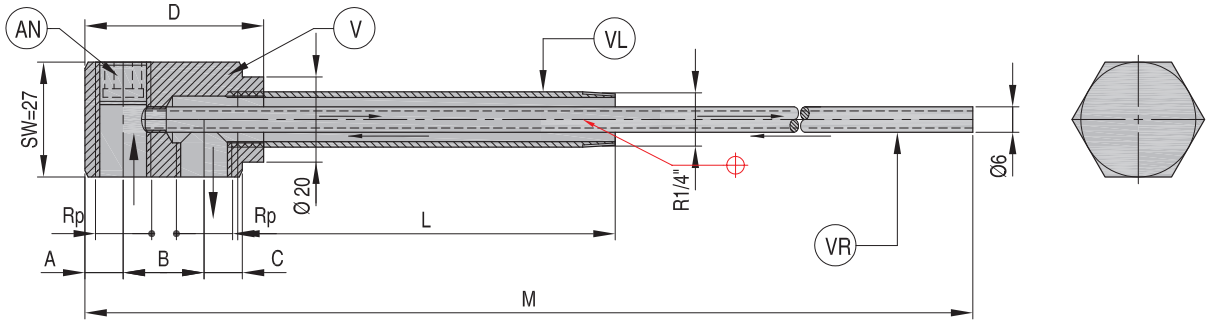
18/09/2012

V

Cascade water junctions

Mat.: Brass





REF	Rp	M	A	B	D	C	L
V 485	1/8"	356	9	19	42	9	50
V 4810	1/8"	356	9	19	42	9	100
V 4815	1/8"	356	9	19	42	9	150
V 4820	1/8"	356	9	19	42	9	200
V 445	1/4"	356	9	19	42	9	50
V 4410	1/4"	356	9	19	42	9	100
V 4415	1/4"	356	9	19	42	9	150
V 4420	1/4"	356	9	19	42	9	200
V 585	1/8"	362	9	26	54	12	50
V 5810	1/8"	362	9	26	54	12	100
V 5815	1/8"	362	9	26	54	12	150
V 5820	1/8"	362	9	26	54	12	200
V 545	1/4"	362	9	26	54	12	50
V 5410	1/4"	362	9	26	54	12	100
V 5415	1/4"	362	9	26	54	12	150
V 5420	1/4"	362	9	26	54	12	200

Cascade Water Junctions are ideal for cooling plastics molds and die cast dies where drilled waterlines through the block are not possible due to interference with ejector pins, sprue puller pins, etc.

The brass tube has the rigidity to maintain uniform spacing inside the water channel and is threaded into the body for firm support. Waterlines may be connected to the same side or opposing sides of the brass hexagonal body.

CAD reference point

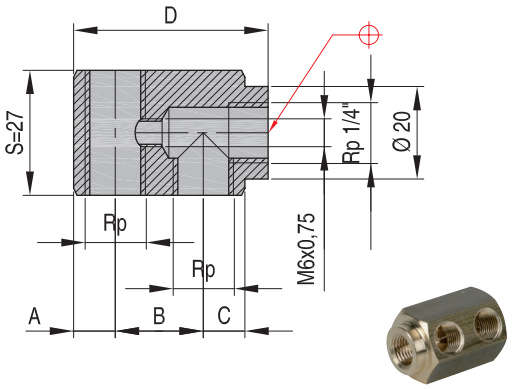
18/09/2012

Body

Mat.: Brass

V

REF	Rp	A	B	D	C
V 48	1/8" BSP	9	19	42	9
V 44	1/4" BSP	9	19	42	9
V 58	1/8" BSP	9	26	54	12
V 54	1/4" BSP	9	26	54	12

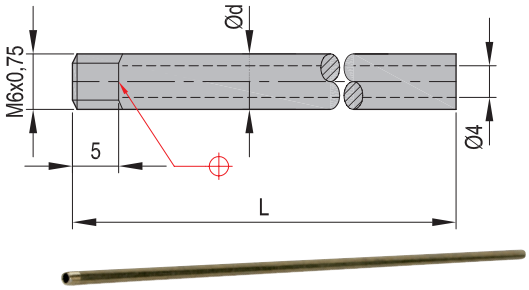


Feed pipes

Mat.: Brass

VR

REF	d	L
VR-6x340	6	340

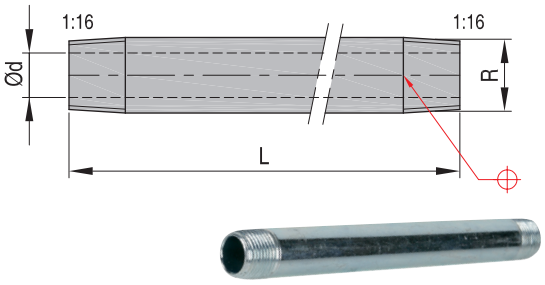


Extension pipes

Mat.: Zinc plated

VL

REF	R	d	L
VL 1/4" x 50	1/4" BSPT	9	50
VL 1/4" x 100	1/4" BSPT	9	100
VL 1/4" x 150	1/4" BSPT	9	150
VL 1/4" x 200	1/4" BSPT	9	200

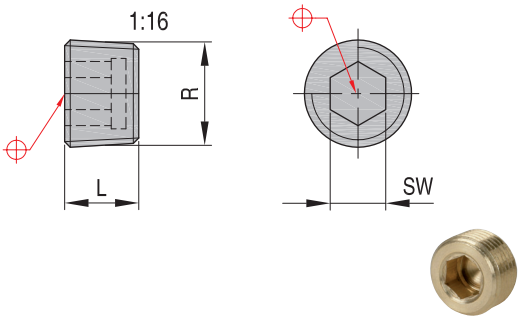


Pressure plugs

Mat.: Brass

AN

REF	R	L	SW
AN - 8	1/8" BSPT	8	5
AN - 4	1/4" BSPT	10	7

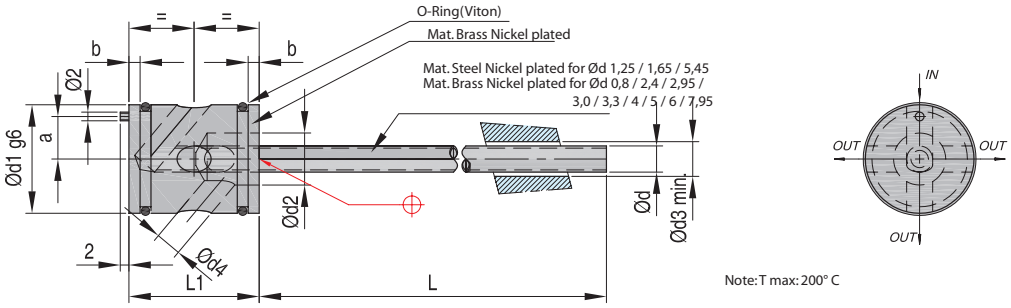


CAD reference point

18/09/2012

T 2000

Cascade water junctions — Mat.: Tube: Steel Nickel plated - Cylinder: Mat.: Brass Nickel plated

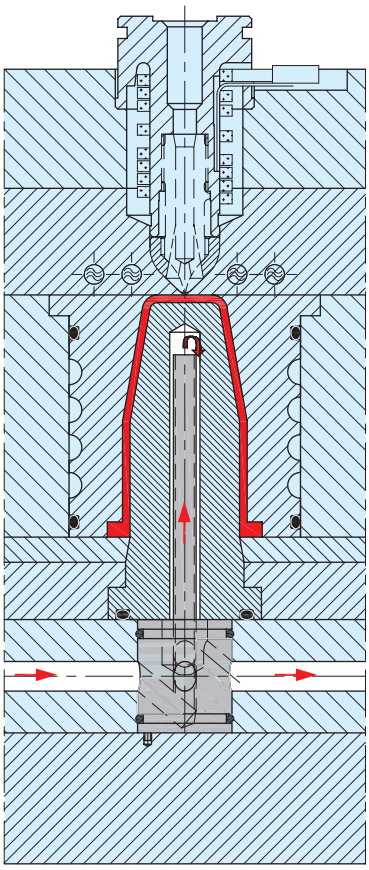


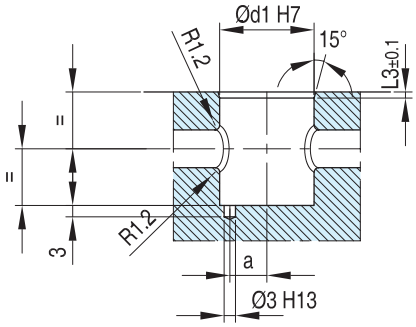
Note: T max: 200° C

REF d1 d x L	d1	d2	d4	d3	L1	L3	a	b	REF. O-RINGS
T2000 10 0,80x160	10	4,2	2	1,0	15	1,2	3,0	1,1	**DR 1710 6x2**
T2000 10 1,25x160	10	4,2	2	1,5	15	1,2	3,0	1,1	**DR 1710 6x2**
T2000 10 1,65x160	10	4,2	2	2,0	15	1,2	3,0	1,1	**DR 1710 6x2**
T2000 10 2,40x160	10	4,2	2	3,2	15	1,2	3,0	1,1	**DR 1710 6x2**
T2000 10 3,00x160	10	4,2	2	4,0	15	1,2	3,0	1,1	**DR 1710 6x2**
T2000 16 0,80x160	16	6,0	3	1,0	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 0,80x300	16	6,0	3	1,0	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 1,25x160	16	6,0	3	1,5	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 1,25x300	16	6,0	3	1,5	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 1,65x160	16	6,0	3	2,0	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 1,65x300	16	6,0	3	2,0	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 2,40x160	16	6,0	3	3,2	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 2,40x300	16	6,0	3	3,2	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 2,95x160	16	6,0	3	4,0	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 2,95x300	16	6,0	3	4,0	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 3,30x160	16	6,0	3	4,5	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 16 3,30x300	16	6,0	3	4,5	20	1,6	5,5	2,2	**DR 1710 12x2**
T2000 25 4,00x160	25	12,0	6	5,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 4,00x300	25	12,0	6	5,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 5,00x160	25	12,0	6	6,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 5,00x300	25	12,0	6	6,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 5,45x160	25	12,0	6	7,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 5,45x300	25	12,0	6	7,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 6,00x160	25	12,0	6	8,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 6,00x300	25	12,0	6	8,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 7,95x160	25	12,0	6	10,0	30	1,6	9,8	3,4	**DR 1710 21x2**
T2000 25 7,95x300	25	12,0	6	10,0	30	1,6	9,8	3,4	**DR 1710 21x2**

CAD reference point

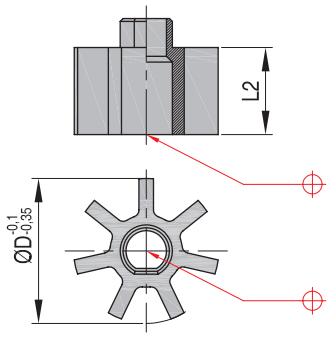
18/09/2012




Ød1 H7
R1.2
15°
L3±0.1
=
=
3
R1.2
a
Ø3 H13

WWK

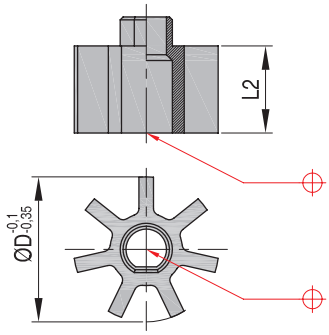
Head



REF	D	L1
WWK 020	20	25
WWK 025	25	25
WWK 028	28	25
WWK 032	32	25
WWK 035	35	25
WWK 040	40	25
WWK 045	45	25
WWK 050	50	25

WWM

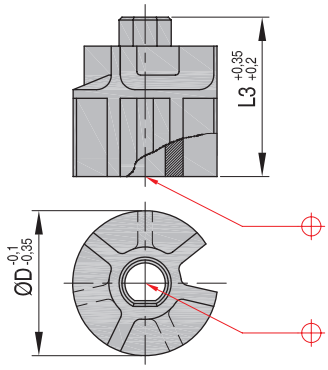
Center piece



REF	D	L2
WWM 020	20	30
WWM 025	25	30
WWM 028	28	30
WWM 032	32	30
WWM 035	35	30
WWM 040	40	30
WWM 045	45	30
WWM 050	50	30

WWF

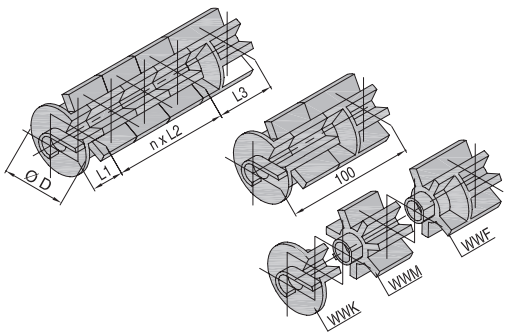
Base

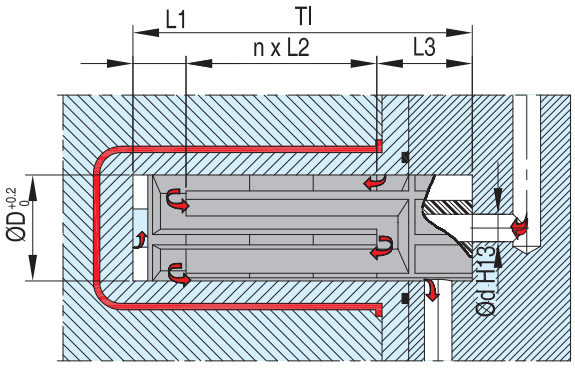


REF	D	L3	d
WWF 020	20	45	10
WWF 025	25	45	10
WWF 028	28	45	12
WWF 032	32	45	12
WWF 035	35	45	14
WWF 040	40	45	14
WWF 045	45	45	14
WWF 050	50	45	14

WWK-WWM-WWF

Plastic cooling cores



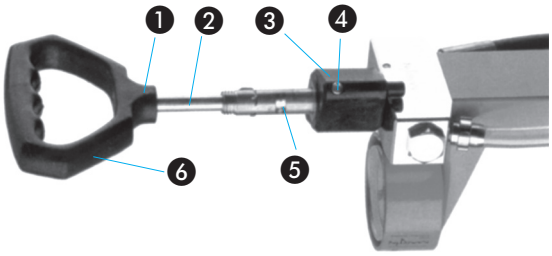


CAD reference point

18/09/2012

Duo Press 60, power pump to test cooling lines for leaks

DUO-Press 60



Technical specification:

Pressure:	max. 60 bar
Weight:	5 kg
Piston diameter:	piston 1: 16 mm
	piston 2: 10 mm
Test liquids:	water or oil

REF
DUO

To check a system

1. Connect the coupling nut of the pressure hose to the system that needs to be checked. The system should then be filled with a suitable liquid.
2. Put the transparent suction hose in the liquid to be circulated.
3. Use the handle ❻ to push both pistons ❶ and ❷ down to the stop.
4. Screw down both pistons completely by turning the handle clockwise.
5. Turn the steering unit ❸ clockwise until the stop.
6. By turning the handle ❻ gently to the left or right, the catch in the large piston is released, it is now possible to pump up to 15 bar.
7. In order to reach higher pressures with less effort, the handle is first pushed down completely, then turned anticlockwise. The catch engages.
8. By turning the handle further to the left both pistons ❶ and ❷ are separated.
9. It is now possible to reach pressures up to 60 bar effort- lessly by pumping through the smallest piston.

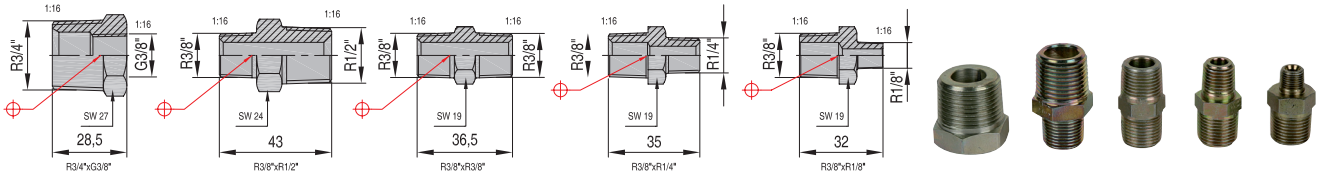
To empty the system

1. In order to secure both pistons ❶ and ❷ together, the handle ❻ is pushed down fully and turned clockwise.
2. Continue to turn the handle ❻ gently, the pistons are now in the rest position. When the catch ❹ engages, a soft click is heard.
3. Turn the steering unit ❸ anticlockwise. The pressurised fluid flows through the pump system and suction hose back into the tank.

REF
DUO-0060

Cascade water junctions

EAS



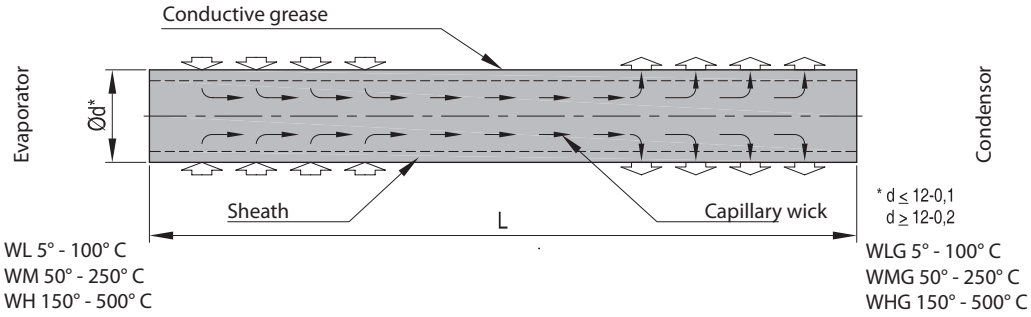
REF
EAS-0001

CAD reference point

18/09/2012

WL - WM - WH

Heat Transfer Rods



General description

The ***DME*** Heat Transfer Rods are static devices with very high thermal conductivity (over a thousand times greater than copper rods).
It allows an important transmission of thermal power with a very low temperature gradient (a few degrees only).

Operation

DME Heat Transfer Rods work on the basis of latent heat with a difference of only about 10°C in temperature between each end.
At the "hot" end of the tube, the liquid evaporates and absorbs energy. The resulting vapour moves to the "cold" end of the tube, where it condenses and releases energy. The liquid then flows back to the other end by gravity and capillary action. The latter occurs over a mesh inside the rod.

DME Service

DME provides recommendations on the most efficient use of Heat Transfer Rods in injection moulding or diecasting applications. In most cases, an application analysis will determine the estimated cycle time.
Just fill out and fax or email the attached questionnaire. Our application engineers will submit a suitable quotation by return.

Application

Heat Transfer Rods are used in the following industries:
- Die casting
- Injection moulding for:
  a) Cooling (molds)
  b) Pre-heating of material
  c) Leveling of service temperatures

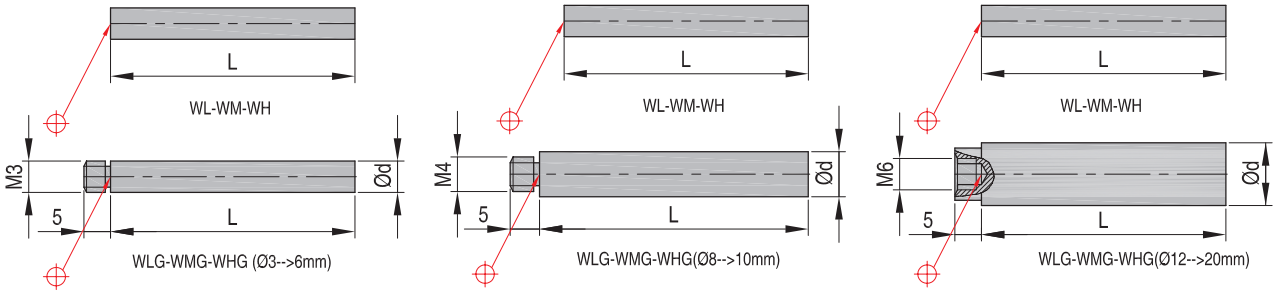
Advantages

1. **Simplified mold construction**
   The ***DME*** Heat Transfer Rods are used in cores, core slides, cavities and other areas of a mold or die requiring cooling or controlled temperatures. In addition, the ability to locate Heat Transfer Rods in areas inaccessible to other cooling devices can further simplify the overall mold design.
   In most of the cases, the machining and construction time required for the mould is reduced, thus lowering mould making costs.
2. **Faster cycle times**
   The cooling lines, throughout the entire mould can be larger in diameter, permitting a higher cooling velocity. A larger volume of fluid flowing through the cooling lines results in a lower overall coolant temperature rise.
   The ability to transfer heat away from the otherwise inaccessible areas improves the overall cooling rate and reduces the cycle time.
3. **Improved product quality**
   The Heat Transfer Rod transfers heat to the coolant, air or mold components, it also dissipates heat evenly along its entire length. This isotherm action provides faster and more uniform cooling, thus eliminating hot spots which cause sink marks, pulling and spotting.
4. **Reduced maintenance costs**
   The increased waterline diameter, coolant velocity and heat capacity eliminate scale formation. Consequently, cooling system maintenance and overall operating costs are almost nil.
5. **Retrofit in existing molds and dies**
   In addition to their many applications Heat Transfer Rods have been retrofitted as replacement parts for bubblers of baffles and provide heat transfer in previously uncooled areas.

18/09/2012

Heat Transfer Rods

WL(G)



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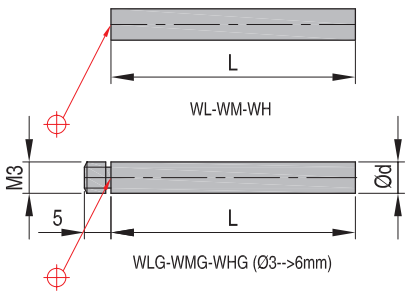
WL-2-50	2	50	**WL-6-80**	6	80	**WL-12-90**	12	90
WL-2-65	2	65	**WL-6-90**	6	90	**WL-12-120**	12	120
WL-2-80	2	80	**WL-6-120**	6	120	**WL-12-160**	12	160
WL-2-90	2	90	**WL-6-160**	6	160	**WL-12-200**	12	200
WL-2-120	2	120	**WL-6-200**	6	200	**WL-12-270**	12	270
WL-3-50	3	50	**WL-6-270**	6	270	**WL-12-320**	12	320
WL-3-65	3	65	**WL-8-50**	8	50	**WL-16-50**	16	50
WL-3-80	3	80	**WL-8-65**	8	65	**WL-16-65**	16	65
WL-3-90	3	90	**WL-8-80**	8	80	**WL-16-80**	16	80
WL-3-120	3	120	**WL-8-90**	8	90	**WL-16-90**	16	90
WL-4-50	4	50	**WL-8-120**	8	120	**WL-16-120**	16	120
WL-4-65	4	65	**WL-8-160**	8	160	**WL-16-160**	16	160
WL-4-80	4	80	**WL-8-200**	8	200	**WL-16-200**	16	200
WL-4-90	4	90	**WL-8-270**	8	270	**WL-16-270**	16	270
WL-4-120	4	120	**WL-10-50**	10	50	**WL-16-320**	16	320
WL-4-160	4	160	**WL-10-65**	10	65	**WL-20-50**	20	50
WL-4-200	4	200	**WL-10-80**	10	80	**WL-20-65**	20	65
WL-5-50	5	50	**WL-10-90**	10	90	**WL-20-80**	20	80
WL-5-65	5	65	**WL-10-120**	10	120	**WL-20-90**	20	90
WL-5-80	5	80	**WL-10-160**	10	160	**WL-20-120**	20	120
WL-5-90	5	90	**WL-10-200**	10	200	**WL-20-160**	20	160
WL-5-120	5	120	**WL-10-270**	10	270	**WL-20-200**	20	200
WL-5-160	5	160	**WL-10-320**	10	320	**WL-20-270**	20	270
WL-5-200	5	200	**WL-12-50**	12	50	**WL-20-320**	20	320
WL-6-50	6	50	**WL-12-65**	12	65			
WL-6-65	6	65	**WL-12-80**	12	80			

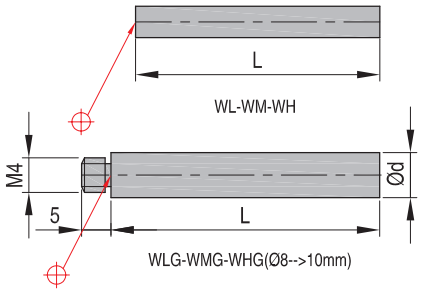
CAD reference point

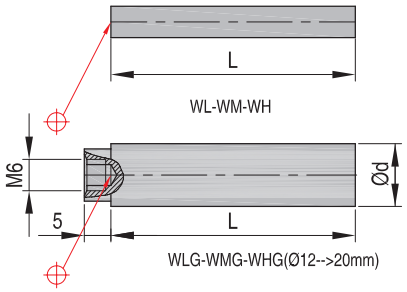
18/09/2012

WM(G)

Heat Transfer Rods







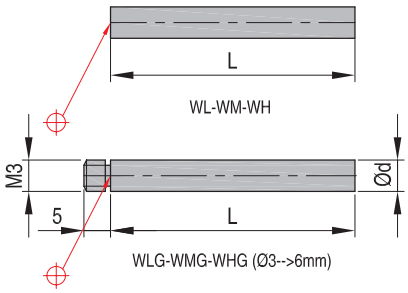
REF(G)	d	L	REF(G)	d	L	REF(G)	d	L
WM-2-50	2	50	**WM-6-80**	6	80	**WM-12-90**	12	90
WM-2-65	2	65	**WM-6-90**	6	90	**WM-12-120**	12	120
WM-2-80	2	80	**WM-6-120**	6	120	**WM-12-160**	12	160
WM-2-90	2	90	**WM-6-160**	6	160	**WM-12-200**	12	200
WM-2-120	2	120	**WM-6-200**	6	200	**WM-12-270**	12	270
WM-3-50	3	50	**WM-6-270**	6	270	**WM-12-320**	12	320
WM-3-65	3	65	**WM-8-50**	8	50	**WM-16-50**	16	50
WM-3-80	3	80	**WM-8-65**	8	65	**WM-16-65**	16	65
WM-3-90	3	90	**WM-8-80**	8	80	**WM-16-80**	16	80
WM-3-120	3	120	**WM-8-90**	8	90	**WM-16-90**	16	90
WM-4-50	4	50	**WM-8-120**	8	120	**WM-16-120**	16	120
WM-4-65	4	65	**WM-8-160**	8	160	**WM-16-160**	16	160
WM-4-80	4	80	**WM-8-200**	8	200	**WM-16-200**	16	200
WM-4-90	4	90	**WM-8-270**	8	270	**WM-16-270**	16	270
WM-4-120	4	120	**WM-10-50**	10	50	**WM-16-320**	16	320
WM-4-160	4	160	**WM-10-65**	10	65	**WM-20-50**	20	50
WM-4-200	4	200	**WM-10-80**	10	80	**WM-20-65**	20	65
WM-5-50	5	50	**WM-10-90**	10	90	**WM-20-80**	20	80
WM-5-65	5	65	**WM-10-120**	10	120	**WM-20-90**	20	90
WM-5-80	5	80	**WM-10-160**	10	160	**WM-20-120**	20	120
WM-5-90	5	90	**WM-10-200**	10	200	**WM-20-160**	20	160
WM-5-120	5	120	**WM-10-270**	10	270	**WM-20-200**	20	200
WM-5-160	5	160	**WM-10-320**	10	320	**WM-20-270**	20	270
WM-5-200	5	200	**WM-12-50**	12	50	**WM-20-320**	20	320
WM-6-50	6	50	**WM-12-65**	12	65			
WM-6-65	6	65	**WM-12-80**	12	80			

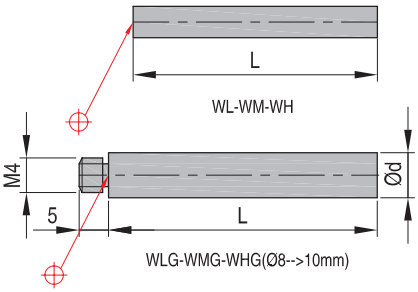
CAD reference point

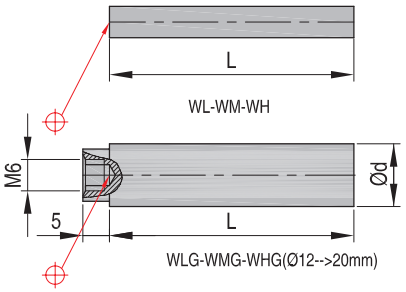
18/09/2012

Heat Transfer Rods

WH(G)







REF(G)	d	L
WH-3-50	3	50
WH-3-65	3	65
WH-3-80	3	80
WH-3-90	3	90
WH-3-120	3	120
WH-4-50	4	50
WH-4-65	4	65
WH-4-80	4	80
WH-4-90	4	90
WH-4-120	4	120
WH-4-160	4	160
WH-4-200	4	200
WH-5-50	5	50
WH-5-65	5	65
WH-5-80	5	80
WH-5-90	5	90
WH-5-120	5	120
WH-5-160	5	160
WH-5-200	5	200
WH-6-50	6	50
WH-6-65	6	65

REF(G)	d	L
WH-6-80	6	80
WH-6-90	6	90
WH-6-120	6	120
WH-6-160	6	160
WH-6-200	6	200
WH-6-270	6	270
WH-8-50	8	50
WH-8-65	8	65
WH-8-80	8	80
WH-8-90	8	90
WH-8-120	8	120
WH-8-160	8	160
WH-8-200	8	200
WH-8-270	8	270
WH-10-50	10	50
WH-10-65	10	65
WH-10-80	10	80
WH-10-90	10	90
WH-10-120	10	120
WH-10-160	10	160
WH-10-200	10	200
WH-10-270	10	270
WH-10-320	10	320
WH-12-50	12	50
WH-12-65	12	65
WH-12-80	12	80

REF(G)	d	L
WH-12-90	12	90
WH-12-120	12	120
WH-12-160	12	160
WH-12-200	12	200
WH-12-270	12	270
WH-12-320	12	320
WH-16-50	16	50
WH-16-65	16	65
WH-16-80	16	80
WH-16-90	16	90
WH-16-120	16	120
WH-16-160	16	160
WH-16-200	16	200
WH-16-270	16	270
WH-16-320	16	320
WH-20-50	20	50
WH-20-65	20	65
WH-20-80	20	80
WH-20-90	20	90
WH-20-120	20	120
WH-20-160	20	160
WH-20-200	20	200
WH-20-270	20	270
WH-20-320	20	320

CAD reference point

18/09/2012

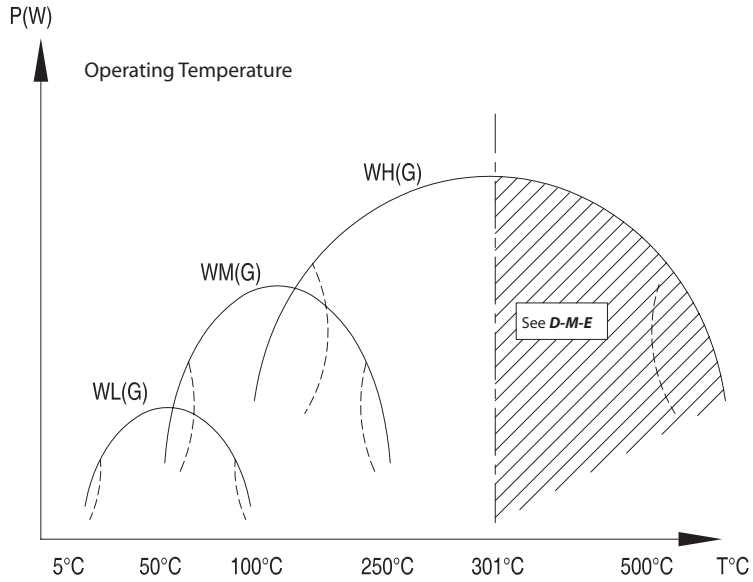
DME 63 - MS 110 - MS 120

REF	Quantity
DME 63	400 ml
MS 110	450 gr
MS 120	10 gr

Working range

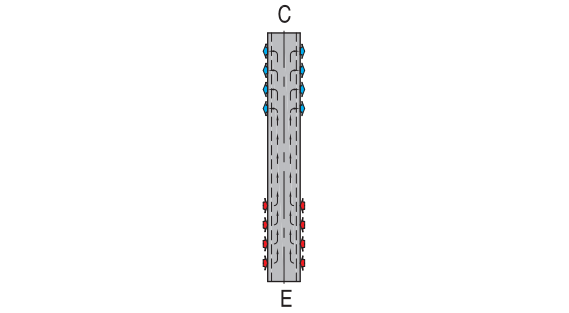
The ***DME*** Heat Transfer Rods contain heat exchange fluid specially selected for the temperature of operation. They are available in 3 Series providing high transfer efficiency over a given range of temperatures.
For low and medium temperatures, the WL Series covers the range from 5 to 100°C and the WM Series from 50°C to 250°C.
For high temperatures, the WH Series covers the range from 150°C to 500°C.
It is always recommended to choose the largest diameter and greatest length.
Graphs should not be used for determining energy values.
At each end of each curve, there is a critical zone in which the operation of the Heat Transfer Rod does not present the best guarantee of efficiency.

Operating Temperature



18/09/2012

Installation Instruction WL(G) - WM(G) - WH(G)



With proper installation, the rod may last as long as the mold. Efficiency of the Heat Transfer Rods varies, according to their position, length and diameter. A correct working action of the rod is obtained by reducing the thermal resistances to a minimum by using a thermal bond of the ***DME*** Heat Transfer Paste 63.

As the fluid inside the rod circulates by gravity and capillarity, the best position for the rod is the vertical position (bottom: heat source + evaporation / top: cold section + condensation).

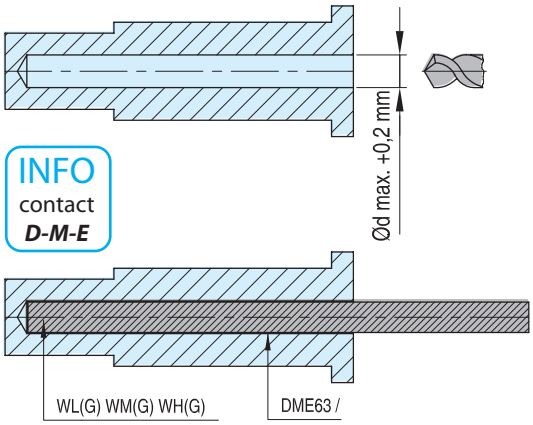
The less efficient position is the reserved position (bottom: cold section + condensation / top: heat source + evaporation).

- Drill a blind hole of 0,1 mm larger than the nominal diameter of the rod for diameters ranging from 2 to 10 mm and 0,2 mm for those larger than 12 mm.
- Make sure no chips remain into the drilled hole.
- Insert into the hole the ***DME*** Heat Transfer Paste 63 which will insure a thermal contact (thermal bond) between the rod and the steel mass of the mould.
- Push the rod into the hole, thus allowing the Heat Transfer Paste 63 to drive back along the hole wall.

C = condensator + cold section
E = evaporator + heat source

18/09/2012

Installation Instruction WL(G) - WM(G) - WH(G)



Irregular shapes of the zone to be cooled
As a general rule, it is advisable to install a Heat Transfer Rod with maximum diameter and maximum length acceptable. When there is a narrow section into the zone to be cooled, where a small diameter should be necessary, it is better to install the rod farther away from the surface to be cooled in order to have a bigger diameter rather than to install a small diameter closer to the surface to be cooled.

Fig. I

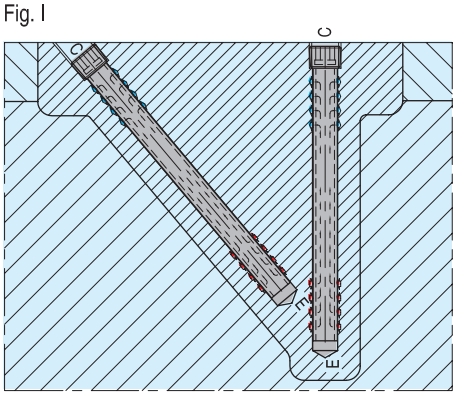
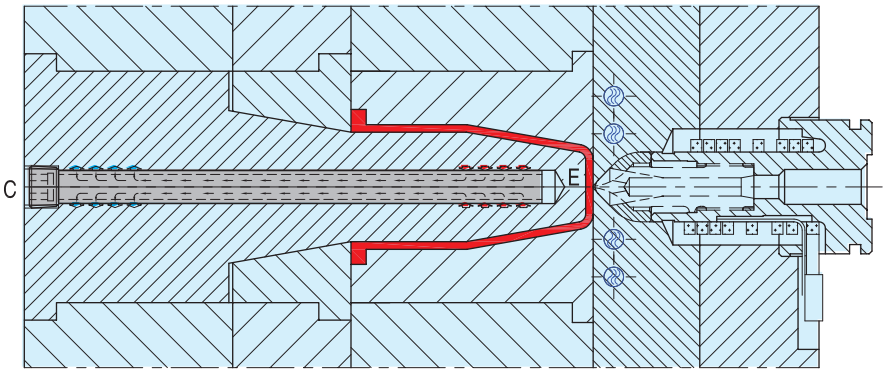
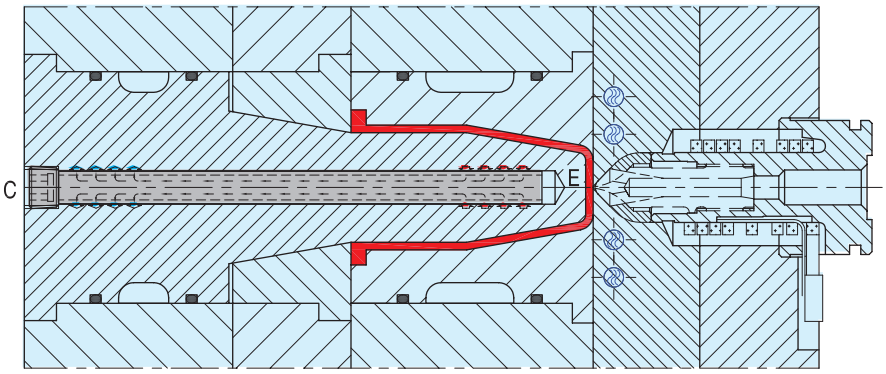


Fig. II



Examples
Inside a core:
1) All types: without cooling lines (thermal conduction into the cold part of the mould).
2) Heat Transfer Rod not in contact with the cooling fluid. The transfer is obtained by means of a cooling line circulating close to the end of the rod.
3) Cooling by means of air circulation. It is however preferable to allow the heat transfer by thermal conduction into the mould rather than by air circulation, the thermal exchanges being low in this latter case.

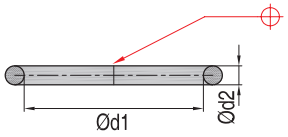
Fig. III

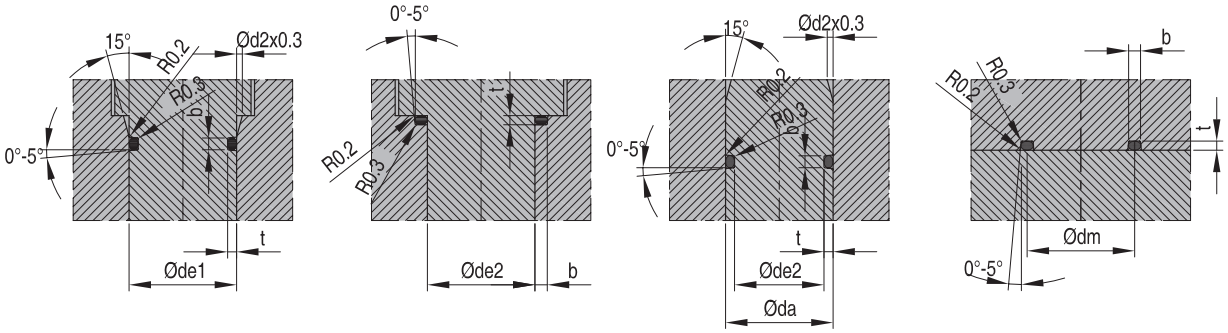


18/09/2012

O-Rings — Mat.: Perbunan Hardness: ~72 Shore T= -40°C --> 100°C

DR 1700





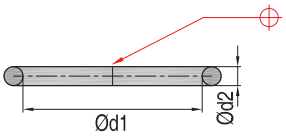
REF	d1	d2	da	de1	de2	dm	b	t
DR 1700 10 x 2,00	10	2,00	13,2	13,2	10	12,00	2,6	1,6
DR 1700 10 x 3,00	10	3,00	14,8	14,8	10	13,00	3,9	2,4
DR 1700 100 x 3,00	100	3,00	104,8	104,8	100	103,00	3,9	2,4
DR 1700 100 x 4,00	100	4,00	106,4	106,4	100	104,00	5,2	3,2
DR 1700 105 x 4,00	105	4,00	111,4	111,4	105	109,00	5,2	3,2
DR 1700 12 x 1,50	12	1,50	14,2	14,8	12	13,50	1,9	1,2
DR 1700 12 x 2,00	12	2,00	15,2	15,2	12	14,00	2,6	1,6
DR 1700 12 x 3,00	12	3,00	16,8	16,8	12	15,00	3,9	2,4
DR 1700 120 x 2,00	120	2,00	123,2	123,2	120	122,00	2,6	1,6
DR 1700 13 x 3,00	13	3,00	17,8	17,8	13	16,00	3,9	2,4
DR 1700 130 x 5,00	130	5,00	138,0	138	130	135,00	6,5	4,0
DR 1700 14 x 1,60	14	1,60	16,6	16,6	14	15,60	2,0	1,3
DR 1700 14 x 2,00	14	2,00	17,2	17,2	14	16,00	2,6	1,6
DR 1700 140 x 4,00	140	4,00	146,4	146,4	140	144,00	5,2	3,2
DR 1700 150 x 2,00	150	2,00	153,2	153,2	150	152,00	2,6	1,6
DR 1700 150 x 4,00	150	4,00	156,4	156,4	150	154,00	5,2	3,2
DR 1700 16 x 1,25	16	1,25	18,0	18,0	16	17,25	1,6	1,0
DR 1700 16 x 2,00	16	2,00	19,2	19,2	16	18,00	2,6	1,6
DR 1700 17 x 3,00	17	3,00	21,8	21,8	17	20,00	3,9	2,4
DR 1700 18 x 1,50	18	1,50	20,4	20,4	18	19,50	1,9	1,2
DR 1700 185 x 6,00	185	6,00	194,6	194,6	185	191,00	7,5	4,8
DR 1700 20 x 2,00	20	2,00	23,2	23,2	20	22,00	2,6	1,6
DR 1700 20 x 3,00	20	3,00	24,8	24,8	20	23,00	3,9	2,4
DR 1700 20 x 4,00	20	4,00	26,4	26,4	20	24,00	5,2	3,2
DR 1700 210 x 4,00	210	4,00	216,4	216,4	210	214,00	5,2	3,2
DR 1700 22 x 3,00	22	3,00	26,8	26,8	22	25,00	3,9	2,4
DR 1700 26 x 3,00	26	3,00	30,8	30,8	26	29,00	3,9	2,4

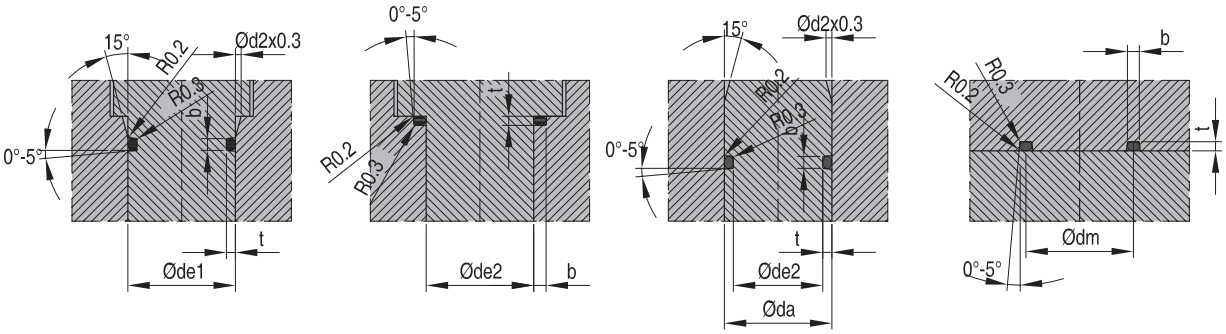
CAD reference point

18/09/2012

DR 1700

O-Rings Mat.: Perbunan Hardness: ~72 Shore T= -40°C --> 100°C





REF	d1	d2	da	de1	de2	dm	b	t
DR 1700 27 x 3,20	27	3,20	32,2	32,2	27	30,20	4,2	2,6
DR 1700 30 x 2,00	30	2,00	33,2	33,2	30	32,00	2,6	1,6
DR 1700 30 x 3,00	30	3,00	34,8	34,8	30	33,00	3,9	2,4
DR 1700 30 x 4,00	30	4,00	36,4	36,4	30	34,00	5,2	3,2
DR 1700 32 x 4,00	32	4,00	38,4	38,4	32	36,00	5,2	3,2
DR 1700 35 x 3,20	35	3,20	40,2	40,2	35	38,20	4,2	2,6
DR 1700 38 x 4,00	38	4,00	44,4	44,4	38	42,00	5,2	3,2
DR 1700 40 x 2,00	40	2,00	43,2	43,2	40	42,00	2,6	1,6
DR 1700 40 x 3,00	40	3,00	44,8	44,8	40	43,00	3,9	2,4
DR 1700 40 x 4,00	40	4,00	46,4	46,4	40	44,00	5,2	3,2
DR 1700 42 x 3,00	42	3,00	46,8	46,8	42	45,00	3,9	2,4
DR 1700 45 x 4,00	45	4,00	51,4	51,4	45	49,00	5,2	3,2
DR 1700 48 x 4,00	48	4,00	54,4	54,4	48	52,00	5,2	3,2
DR 1700 50 x 2,00	50	2,00	53,2	53,2	50	52,00	2,6	1,6
DR 1700 50 x 4,00	50	4,00	56,4	56,4	50	54,00	5,2	3,2
DR 1700 52 x 3,00	52	3,00	56,8	56,8	52	55,00	3,9	2,4
DR 1700 59 x 3,00	59	3,00	63,8	63,8	59	62,00	3,9	2,4
DR 1700 6 x 2,00	6	2,00	9,2	9,2	6	8,00	2,6	1,6
DR 1700 6 x 2,50	6	2,50	10,0	10,0	6	8,50	3,2	2,0
DR 1700 60 x 3,00	60	3,00	64,8	64,8	60	63,00	3,9	2,4
DR 1700 60 x 4,00	60	4,00	66,4	66,4	60	64,00	5,2	3,2
DR 1700 70 x 3,00	70	3,00	74,8	74,8	70	73,00	3,9	2,4
DR 1700 70 x 4,00	70	4,00	76,4	76,4	70	74,00	5,2	3,2
DR 1700 8 x 2,00	8	2,00	11,2	11,2	8	10,00	2,6	1,6
DR 1700 80 x 2,80	80	2,80	84,4	84,4	80	82,80	3,7	2,2
DR 1700 80 x 4,00	80	4,00	86,4	86,4	80	84,00	5,2	3,2
DR 1700 84 x 3,00	84	3,00	88,8	88,8	84	87,00	3,9	2,4
DR 1700 90 x 4,00	90	4,00	96,4	96,4	90	94,00	5,2	3,2

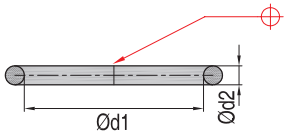
CAD reference point

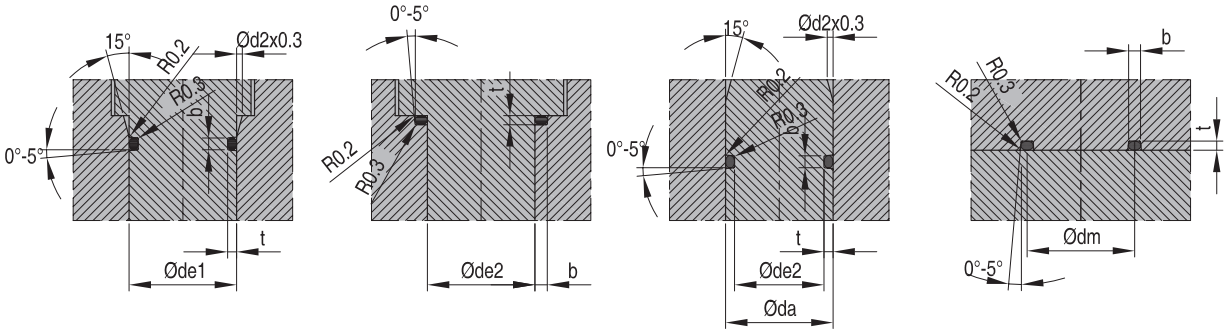
18/09/2012

O-Rings

Mat.: FPM (Viton) Hardness: ~80 Shore. T max: +200°C
air-permanent. +250°C air-temporary. +100°C water-permanent

DR 1710





REF	d1	d2	da	de1	de2	dm	b	t
DR 1710 3,50 x 1,50	3,50	1,50	5,7	6	3,5	5,00	1,9	1,20
DR 1710 5,50 x 1,50	5,50	1,50	7,7	8	5,5	7,00	1,9	1,20
DR 1710 6,00 x 2,00	6,00	2,00	9,0	10	6,0	8,00	2,7	1,50
DR 1710 6,35 x 1,78	6,35	1,78	9,1	10	6,5	8,13	2,2	1,45
DR 1710 7,50 x 1,50	7,50	1,50	9,7	10	7,5	9,00	1,9	1,20
DR 1710 8,00 x 2,50	8,00	2,50	11,7	12	8,0	10,50	3,2	2,00
DR 1710 10,00 x 2,50	10,00	2,50	13,7	14	10,0	12,50	3,2	2,00
DR 1710 12,00 x 2,00	12,00	2,00	15,0	16	12,0	14,00	2,7	1,50
DR 1710 12,00 x 2,50	12,00	2,50	15,7	16	12,0	14,50	2,2	2,00
DR 1710 12,42 x 1,78	12,42	1,78	15,1	16	12,5	14,20	3,2	1,45
DR 1710 14,00 x 2,50	14,00	2,50	17,7	18	14,0	16,50	3,2	2,00
DR 1710 16,00 x 2,50	16,00	2,50	19,7	20	16,0	18,50	3,9	2,00
DR 1710 17,00 x 3,00	17,00	3,00	21,6	22	17,0	20,00	3,9	2,40
DR 1710 20,00 x 3,00	20,00	3,00	24,6	25	20,0	23,00	2,7	2,40
DR 1710 21,00 x 2,00	21,00	2,00	24,0	25	21,0	23,00	2,2	1,50
DR 1710 21,95 x 1,78	21,95	1,78	24,6	25	22,0	23,73	3,9	1,45
DR 1710 23,00 x 3,00	23,00	3,00	27,6	28	23,0	26,00	3,9	2,40
DR 1710 25,00 x 3,00	25,00	3,00	29,6	30	25,0	28,00	3,9	2,40
DR 1710 27,00 x 3,00	27,00	3,00	31,6	32	27,0	30,00	3,9	2,40
DR 1710 30,00 x 3,00	30,00	3,00	34,6	35	30,0	33,00	3,9	2,40
DR 1710 35,00 x 3,00	35,00	3,00	39,6	40	35,0	38,00	3,9	2,40
DR 1710 40,00 x 3,00	40,00	3,00	44,6	45	40,0	43,00	3,9	2,40
DR 1710 45,00 x 3,00	45,00	3,00	49,6	50	45,0	48,00	3,9	2,40
DR 1710 55,00 x 3,00	55,00	3,00	59,6	60	55,0	58,00	3,9	2,40
DR 1710 58,00 x 3,00	58,00	3,00	62,6	63	58,0	61,00	3,9	2,40
DR 1710 64,00 x 4,00	64,00	4,00	70,2	70	64,0	68,00	5,2	3,20
DR 1710 74,00 x 4,00	74,00	4,00	80,2	80	74,0	78,00	5,2	3,20
DR 1710 84,00 x 4,00	84,00	4,00	90,2	90	84,0	88,00	5,2	3,20
DR 1710 94,00 x 4,00	94,00	4,00	100,2	100	94,0	98,00	5,2	3,20
DR 1710 104,00 x 4,00	104,00	4,00	110,2	110	104,0	108,00	5,2	3,20
DR 1710 120,00 x 4,00	120,00	4,00	126,2	126	120,0	124,00	5,2	3,20
DR 1710 134,00 x 4,00	134,00	4,00	140,2	140	134,0	138,00	5,2	3,20
DR 1710 155,00 x 4,00	155,00	4,00	161,2	161	155,0	159,00	5,2	3,20

CAD reference point

18/09/2012

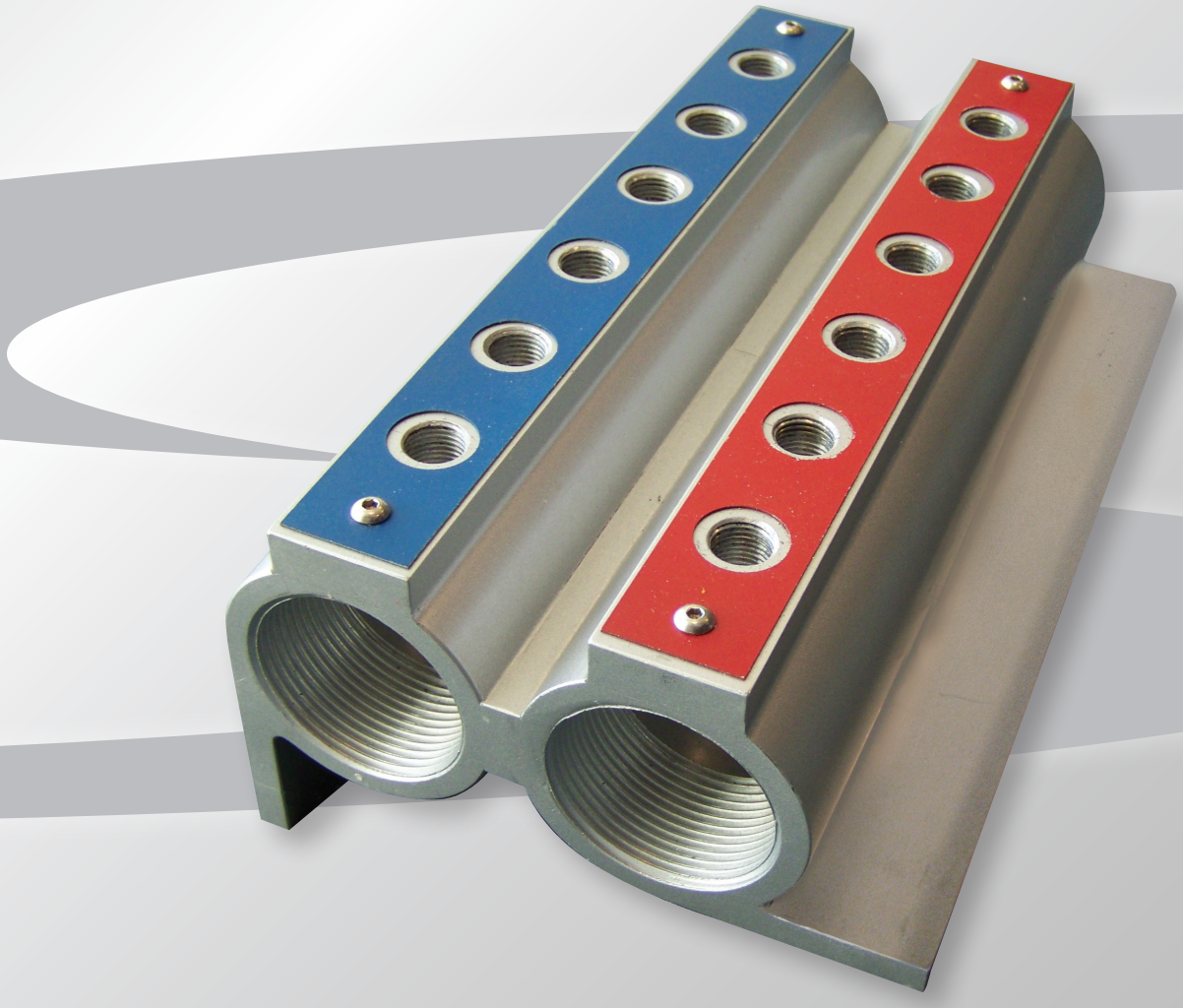

DME
EVERY STEP OF THE WAY

DME

EVERY STEP OF THE WAY

Cooling Manifold

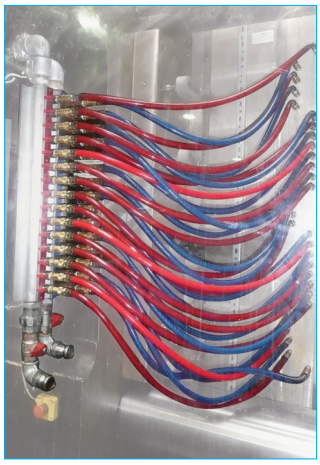
- no loss in pressure due to long hoses or too many flow meters
- efficient parallel moldcooling with shorter cycle times
- easily install and group cooling connections and hoses
- in- and outlets can be connected seperately
- hose lengths can be reduced, enabling the molder to work with lower pressure in the system
- cooling manifold can be installed horizontally and vertically



Info

Cooling Manifold

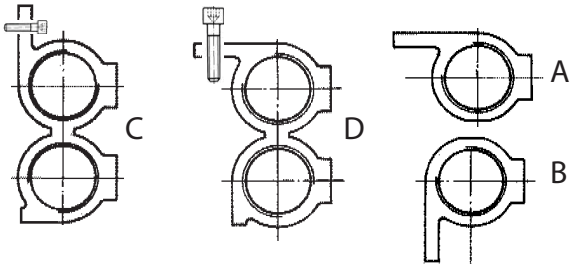
Traditional cooling connection



DME cooling manifold

- One piece Aluminium Extrusion Anodized
- Corrosion resistant / No Welds
- Standard Inlets: 1 ½" (2 included per system)
- Predrilled Mounting Holes
- Red / Blue Marking plate Included
- Specials upon demand

Variants

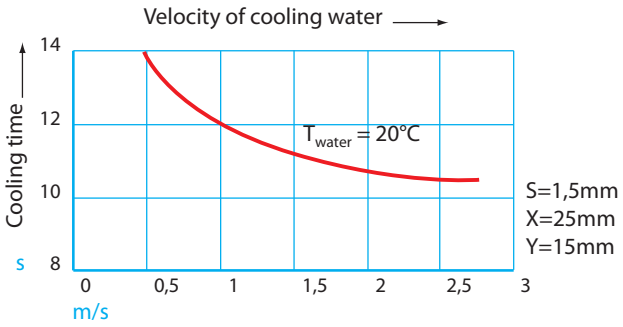


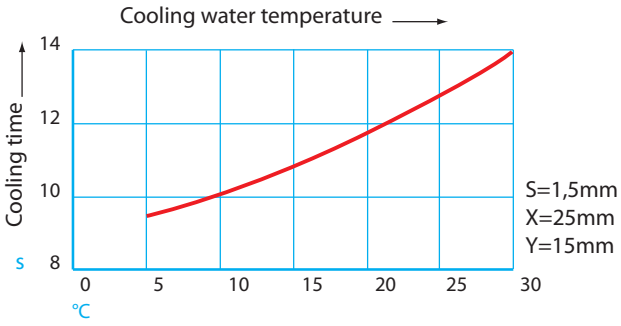
Double option
On side of the mold/machine

Double option
On top of mold/machine

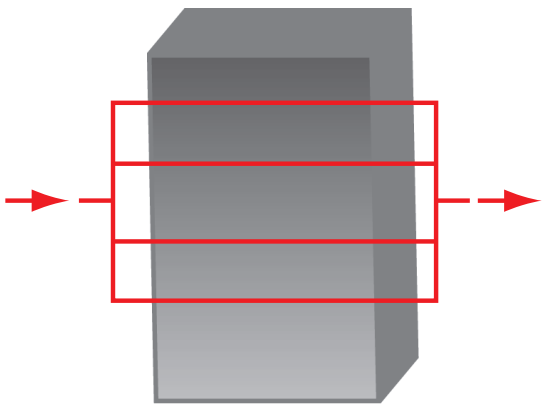
Single option
(Upon request)

Info



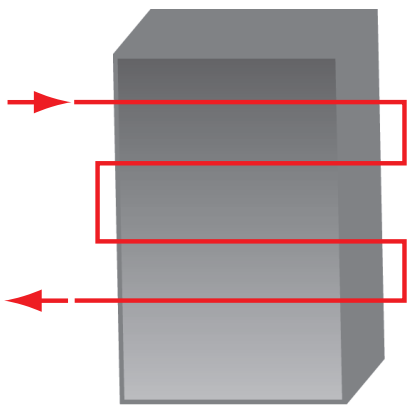


Parallel



High flow
Low pressure loss

Serial



Low flow
High pressure loss

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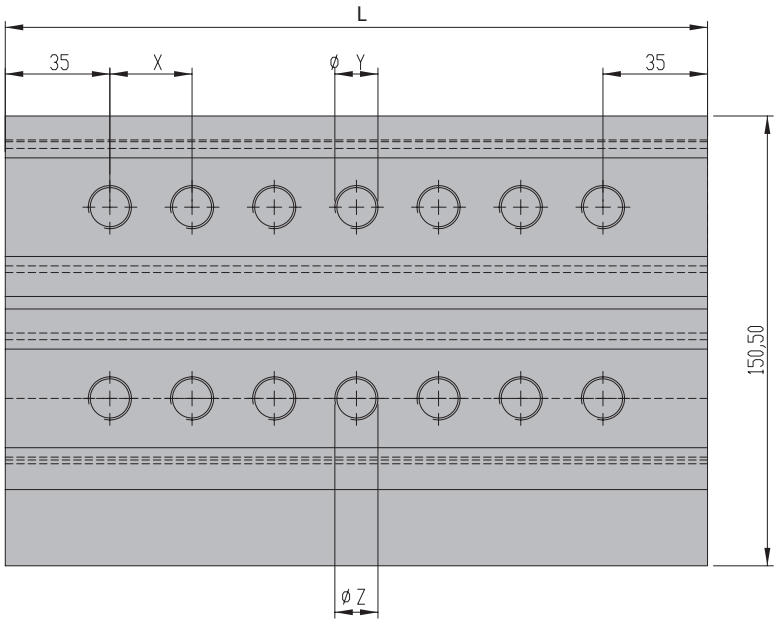
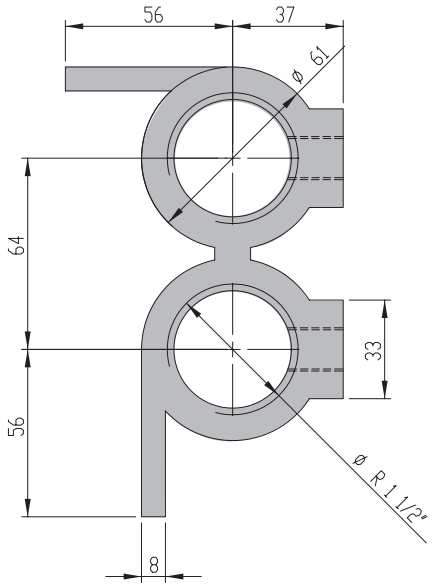
Example





For use	Y/Z	X
Nipple/plug	1/4" 3/8" M14x1,5	27,50 mm
Nipple/plug	1/2" / M16x1,5	33,00 mm
Nipple/plug	3/4" / M24x1,5	41,25 mm
Valves	upon request	Minimum 50 when using collector valves with handle

How to order*

- Number of holes per row
- Thread upper row "Y"
- Thread lower row "Z"
- Distance "X"
- Total length manifold

Example:	COLM	2x7	3/8	3/8	33	268
	REF	N° holes	Thread Y	Thread Z	X	Total Length

mandatory info to be supplied by customer

Standard accessories available

Collector Valve with Handle ½"
REF: CVH12
For use with X= 41.5 mm

GK Extension Brass ½"
Length 50 mm
REF: GKMF12
To be used for second row

FLOW METER with Mechanical Regulation
BSP ½" (Female) - BSP ¾" (Male)
Hexagonal: SW19
Full Length: 81mm
Flow capacity: 2 - 8 lt/min
Temperature Range: +0°C - +100 °C
Working Pressure: max 10 Bar
Springs: Stainless Steel
Indicator Plastic Seals: Buna
Article number: FM 1234

Standard Inlets: 1 ½" :
REF: COMFD0001

** Upon request*

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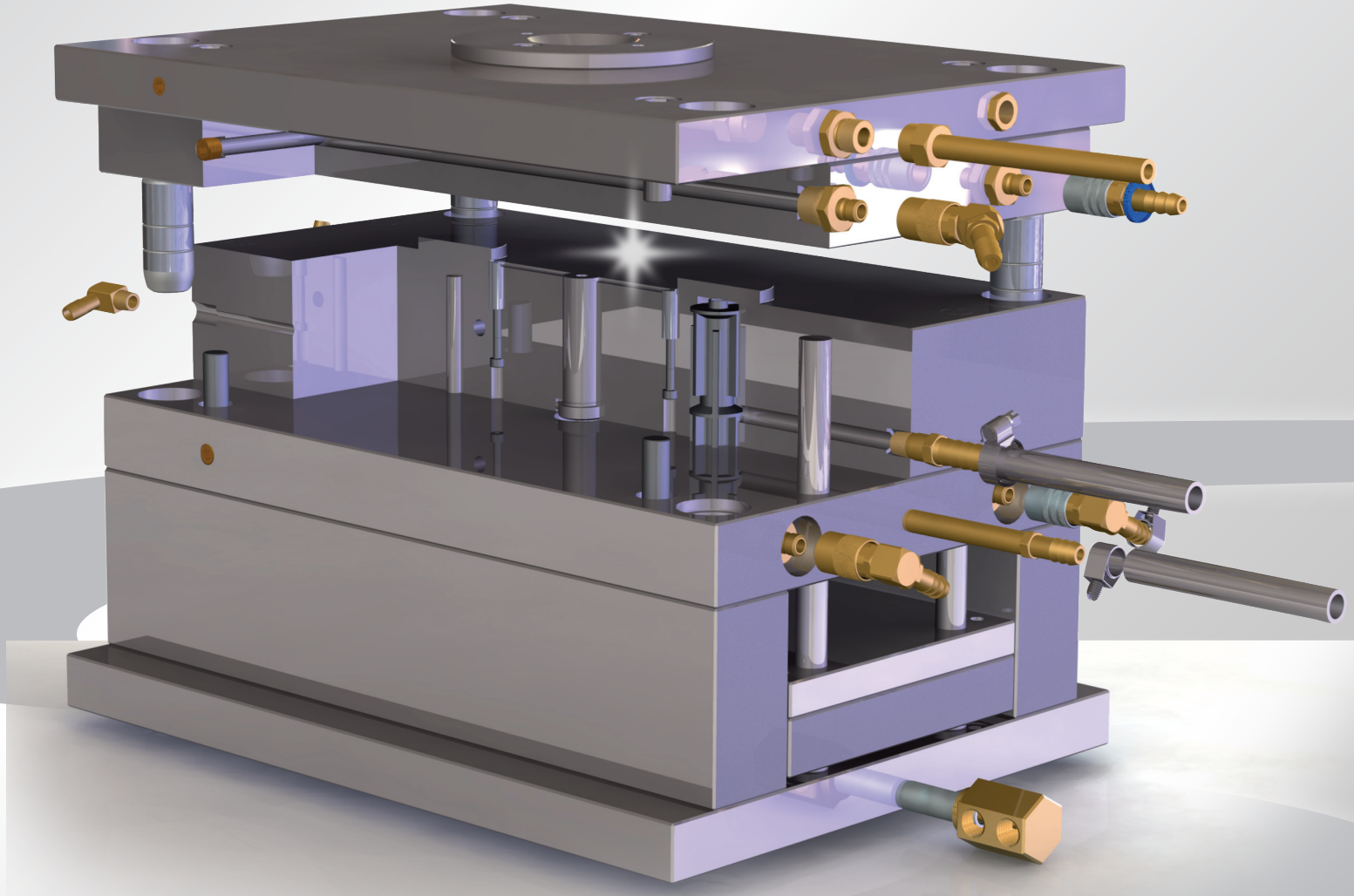
Technical Data



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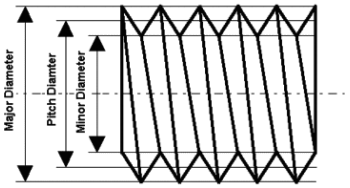
International Thread Standards

The most frequently used thread standard is the metric ISO Thread. However, there are other thread standards as well. These are either based on foreign standards or are used for special applications. E.G. in the medical technology, in aeronautical engineering or astronautics.
The most common threads are:

- ISO Thread (metric)
- Whitworth Thread
- Pipe Thread
- Trapezoidal Thread
- Knuckle Thread
- Buttress Thread



The thread abbreviation includes the thread code letter and the nominal thread diameter or the thread size. Additional values for pitch or TPI, tolerance, multi-lead, taper and left-handedness are added. Often threads that are according to DIN Standard have the major DIN number put in front of the thread abbreviation.

Talking of screws the major diameter for screws is determined by the thread tips. The minor diameter by the groove of the thread.

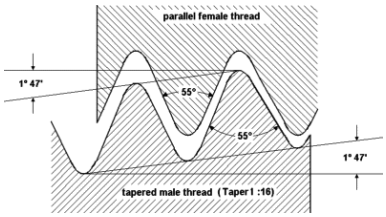
The pitch diameter is the distance of two opposite flanks or the distance of the center line of the profile.

Thread Specifications

Abbreviation	Country	Thread Angle °	Description
ISO		60°	International Organization for Standardization
NC	USA	60°	National Coarse
UNC	USA	60°	Unified National Coarse
NF	USA	60°	National Fine
UNF	USA	60°	Unified National Fine
UNEF	USA	60°	Unified National Extra Fine
UN	USA	60°	Unified National 8-, 12- and 16 pitch Series
UNS	USA	60°	Special Threads of American National Form
NPT	USA	60°	National Taper Pipe 1:16
NPTF	USA	60°	National Taper Pipe Dryseal 1:16
NPS	USA	60°	National Standard Straight Pipe
NPSM	USA	60°	National Standard Straight Pipe for free fitting mechanical
NPSF	USA	60°	National Standard Internal Straight Pipe Dryseal
BSW	GB	55°	British Standard Withworth Coarse
BSF	GB	55°	British Standard Fine
BSP	GB	55°	British Strandard Pipe
BSPT	GB	55°	British Standard Pipe Taper
BA	GB	47°	British Standard Association

Whitworth Tapered Pipe Thread DIN 2999 _ BSPT (British Standard Tapered Pipe)

Whitworth Pipe Thread for pipes and fittings. Parallel female thread and tapered male thread (taper 1 : 16). An appropriate sealing compound can be used in the thread to ensure a leak-proof joint.



Thread Specifications

Male Thread Diameter	Female Thread Diameter	Pipe Minor Diameter mm	Pipe Major Diameter mm	Tapping Drill Size mm	TPI	Pitch mm
R 1/16″	Rp 1/16″	3	7,723	6,561	28	0,907
R 1/8″	Rp 1/8″	6	9,728	8,566	28	0,907
R 1/4″	Rp 1/4″	8	13,157	11,445	19	1,337
R 3/8″	Rp 3/8″	10	16,662	14,950	19	1,337
R 1/2″	Rp 1/2″	15	20,995	18,631	14	1,814
R 3/4″	Rp 3/4″	20	26,441	24,117	14	1,814
R 1″	Rp 1″	25	33,249	30,291	11	2,309
R 1 1/4″	Rp 1 1/4″	32	41,910	38,952	11	2,309
R 1 1/2″	Rp 1 1/2″	40	47,803	44,845	11	2,309
R 2″	Rp 2″	50	59,614	56,656	11	2,309
R 2 1/2″	Rp 2 1/2″	65	75,184	72,226	11	2,309
R 3″	Rp 3″	80	87,884	84,926	11	2,309
R 4″	R 4″	100	113,030	110,072	11	2,309
R 5″	Rp 5″	125	138,430	135,472	11	2,309
R 6″	Rp 6″	150	163,830	160,872	11	2,309

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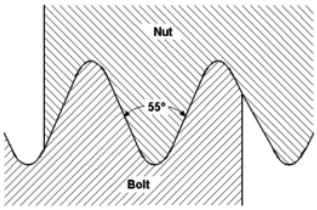
Whitworth Pipe Thread DIN ISO 228 BSP (British Standard Pipe)

British Standard Pipe Thread, with sealant compound (parallel, cylindrical), external = G



Thread Specifications

Nominal Diameter	Major Diameter	Minor Diamter Nut mm	Tapping Drill Size	TPI	Pitch mm
G 1/8″	9,73	8,85	8,80	28	0,907
G 1/4″	13,16	11,89	11,80	19	1,337
G 3/8″	16,66	15,39	15,25	19	1,337
G 1/2″	20,95	19,17	19,00	14	1,814
G 5/8″	22,91	21,13	21,00	14	1,814
G 3/4″	26,44	24,66	24,50	14	1,814
G 7/8″	30,20	28,42	28,25	14	1,814
G 1″	33,25	30,93	30,75	11	2,309
G 1 1/8″	37,90	35,58	35,30	11	2,309
G 1 1/4″	41,91	39,59	39,25	11	2,309
G 1 3/8″	44,32	42,00	41,70	11	2,309
G 1 1/2″	47,80	45,48	45,25	11	2,309
G 1 3/4″	53,74	51,43	51,10	11	2,309
G 2″	59,61	57,29	57,00	11	2,309
G 2 1/4″	65,71	63,39	63,10	11	2,309
G 2 1/2″	75,18	72,86	72,60	11	2,309
G 2 3/4″	81,53	79,21	78,90	11	2,309
G 3″	87,88	85,56	85,30	11	2,309
G 3 1/4″	93,98	91,66	91,50	11	2,309
G 3 1/2″	100,33	98,01	97,70	11	2,309
G 3 3/4″	106,68	104,30	104,00	11	2,309
G 4″	113,03	110,71	110,40	11	2,309

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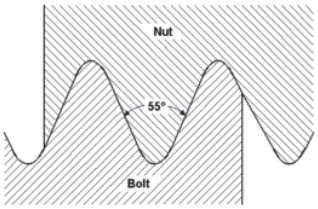
UNEF Thread ANSI B1.1

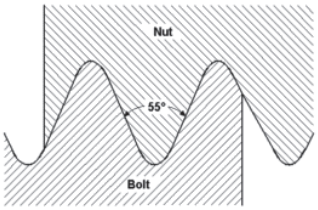
UNEF - Unified Extra Fine Thread, which is used for special purposes



Thread Specifications

Nominal Diameter	Major Diameter Inch	Major Diameter mm	Tapping Drill Size mm	TPI	Pitch mm
N 12 - 32 UNEF	0,216	5,486	4,80	32	0,794
1/4" - 32 UNEF	0,250	6,350	5,70	32	0,794
5/16" - 32 UNEF	0,313	7,938	7,25	32	0,794
3/8" - 32 UNEF	0,375	9,525	8,85	32	0,794
7/16" - 28 UNEF	0,438	11,112	10,35	28	0,907
1/2" - 28 UNEF	0,500	12,700	11,80	28	0,907
9/16" - 24 UNEF	0,563	14,288	13,40	24	1,058
5/8" - 24 UNEF	0,625	15,875	15,00	24	1,058
11/16" - 24 UNEF	0,688	17,462	16,60	24	1,058
3/4" - 20 UNEF	0,750	19,050	18,00	20	1,270
13/16" - 20 UNEF	0,813	20,638	19,60	20	1,270
7/8" - 20 UNEF	0,875	22,225	21,15	20	1,270
15/16" - 20 UNEF	0,938	23,812	22,70	20	1,270
1" - 20 UNEF	1,000	25,400	24,30	20	1,270
1 1/16" - 18 UNEF	1,063	26,988	25,80	18	1,411
1 1/8" - 18 UNEF	1,125	28,575	27,35	18	1,411
1 1/4" - 18 UNEF	1,250	31,750	30,55	18	1,411
1 5/16" - 18 UNEF	1,313	33,338	32,10	18	1,411
1 3/8" - 18 UNEF	1,375	34,925	33,70	18	1,411
1 7/16" - 18 UNEF	1,438	36,512	35,30	18	1,411
1 1/2" - 18 UNEF	1,500	38,100	36,90	18	1,411
1 9/16" - 18 UNEF	1,563	39,688	38,55	18	1,411
1 5/8" - 18 UNEF	1,625	41,275	40,10	18	1,411
1 11/16" - 18 UNEF	1,688	42,862	41,60	18	1,411

ISO Metric Coarse Thread DIN 13



Thread Specifications

Nominal Diameter M	Pitch mm	Tapping Drill Size mm
1,0	0,25	0,75
1,1	0,25	0,85
1,2	0,25	0,95
1,4	0,30	1,10
1,6	0,35	1,25
1,8	0,35	1,45
2,0	0,40	1,60
2,2	0,45	1,75
2,5	0,45	2,05
3,0	0,50	2,50
3,5	0,60	2,90
4,0	0,70	3,30
4,5	0,75	3,70
5,0	0,80	4,20
6,0	1,00	5,00
7,0	1,00	6,00
8,0	1,25	6,80

Nominal Diameter M	Pitch mm	Tapping Drill Size mm
9,0	1,25	7,80
10,0	1,50	8,50
11,0	1,50	9,50
12,0	1,75	10,20
14,00	2,00	12,00
16,00	2,00	14,00
18,00	2,50	15,50
20,00	2,50	17,50
22,00	2,50	19,50
24,00	3,00	21,00
27,00	3,00	24,00
30,00	3,50	26,50
33,00	3,50	29,50
36,00	4,00	32,00
39,00	4,00	35,00
42,00	4,50	37,50
45,00	4,50	40,50

Nominal Diameter M	Pitch mm	Tapping Drill Size mm
48,00	5,00	43,00
52,00	5,00	47,00
56,00	5,50	50,50
60,00	5,50	54,50
64,00	6,00	58,00
68,00	6,00	62,00

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