

**SACA
HAR HELE
LØSNINGEN**

**IKKE KUN
RØRSYSTEMET**

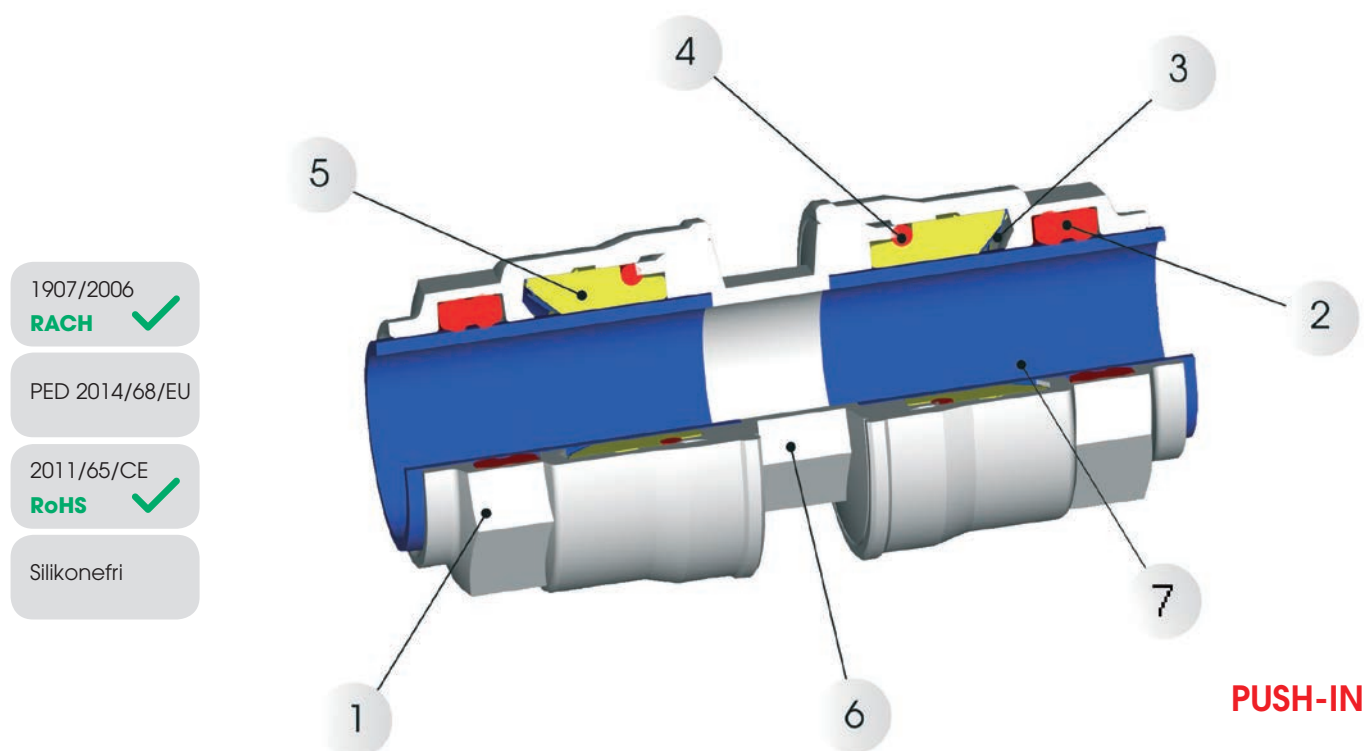
 **SACA**
- din leverandør af trykluftrør



INFINITY produktfordele

- Høj flowhastighed og minimalt trykfald
- Kræver begrænset vedligeholdelse
- Nemt og enkelt at montere
- Holdbart og korrosionsbestandigt
- Høj materialekvalitet
- Separationssystem til kondens
- Systemet kan genanvendes
- UV-bestandigt
- Bredt udvalg af fittings og lynfittings til installation af rørsystemer
- Nemt at modificere og udbygge
- **Infinity opfylder alle krav i PED-direktivet 2014/68/EU**

TEKNISKE SPECIFIKATIONER Ø20 - Ø25 - Ø32 - Ø40 - Ø50 - Ø63



1907/2006

RACH ✓

PED 2014/68/EU

2011/65/CE

RoHS ✓

Silikonfri

PRODUKTBESKRIVELSE

- 1 Omløber fremstillet af forniklet messing/aluminium Ø63
- 2 Pakning fremstillet af NBR - Kan også leveres med Viton (FKM)
- 3 Klemme spændeskive fremstillet af Inox AISI 304
- 4 O-RING pakninger fremstillet af NBR - Kan også leveres med Viton (FKM)
- 5 Sikkerhedsring fremstillet af Technopolymer
- 6 Hus fremstillet i forniklet messing/aluminium Ø63
- 7 Extruderet aluminiumsrør kalibreret og pulverbelagt blå farve (RAL 5010) - grå farve (RAL 7035)

BELASTNINGER

Min. belastning	-0.99 bar (0.099 Mpa)
Max. belastning	16 bar (1.6 Mpa)

TEMPERATURER

Min. temperatur	-20°C
Max. temperatur	+80°C

KOMPATIBLE MEDIER

Trykluft
Vacuum
Inaktive gasser (nitrogen, argon) med flere
Oxygen

BRANDKLASSIFIKATION

Systemet hverken antænder eller spreder ild

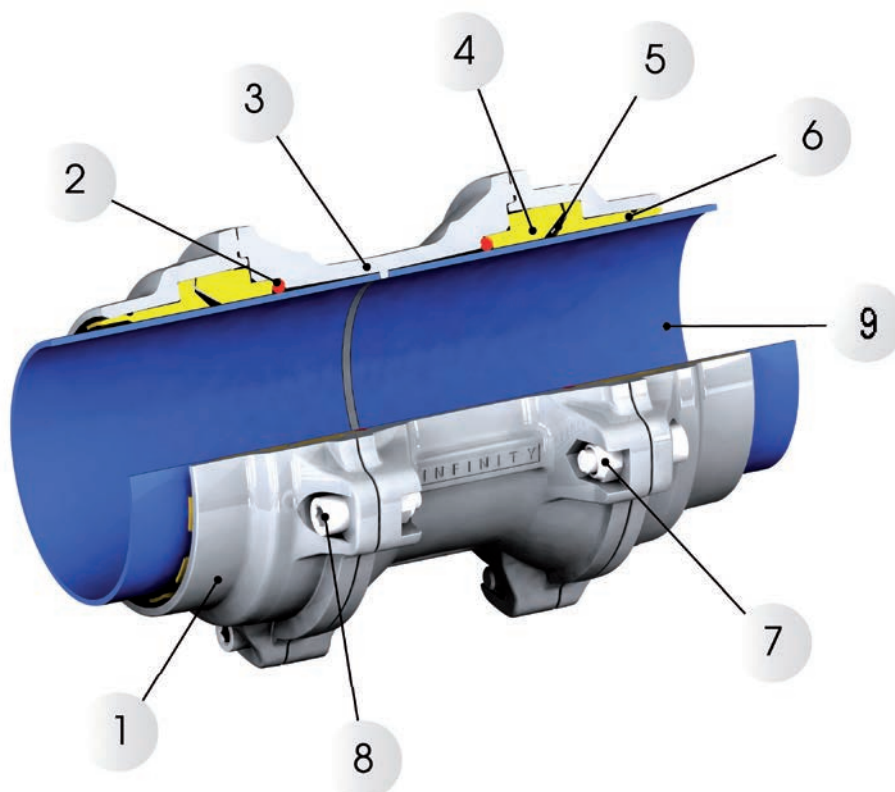
OMLØBER

Gevind koniske i overensstemmelse med ISO 7
Omløber i overensstemmelse med ISO 228

TEKNISKE EGENSKABER TIL RØR

Extruderet aluminium	UNI 9006/1 Al Mg 0.5 Si 0.4 Fe 0.2
Betegnelser UNI EN 573-3	EN AW 6060 T6
Overfladebehandling	Elektrostatisk maling
Specifik vægt	2.70 Kg/dm³
Udvidelseskoefficient	0.024 mm/(m °C)

TEKNISKE SPECIFIKATIONER Ø80 - Ø110



PUSH-IN

1907/2006

REACH ✓

PED 2014/68/EU

2011/65/CE

RoHS ✓

Silikonefri

PRODUKTBESKRIVELSE

- 1 Flange fremstillet af aluminium med en afpudset overfladebehandling
- 2 O-RING pakning fremstillet af NBR - Kan også leveres med Viton (FKM)
- 3 Hus fremstillet af aluminium med afsluttet/afpudset overfladebehandling
- 4 Sikkerhedsring fremstillet af technopolymer
- 5 Klemme spændeskive fremstillet af AISI 301
- 6 Styrering fremstillet af technopolymer
- 7 Selvlåsende møtrik i zinkbeklædt stål
- 8 TCEI skrue i zinkbeklædt stål
- 9 Extruded aluminiumsrør kalibreret og pulverbelagt blå farve (RAL 5010) – grå farve (RAL 7035)

BELASTNINGER

Min. belastning	-0.99 bar (0.099 Mpa)
Max. belastning	16 bar (1.6 Mpa)

TEMPERATURER

Min. temperatur	-20°C
Max. temperatur	+80°C

KOMPATIBLE MEDIER

Trykluft
Vacuum
Inaktive gasser (nitrogen, argon) med flere
Oxygen

BRANDKLASSIFIKATION

Systemet hverken antænder eller spreder ild

FLANGE

Flange UNI EN 1092 - 4 PN 16
Krop i overensstemmelse med ISO 228

TEKNISKE EGENSKABER TIL RØR

Extruded aluminium	UNI 9006/1 Al Mg 0.5 Si 0.4 Fe 0.2
Betegnelser UNI EN 573-3	EN AW 6060 T6
Overfladebehandling	Elektrostatisk maling
Specifik vægt	2.70 Kg/dm³
Udvidelseskoefficient	0.024 mm/(m °C)

INSTALLATION Ø20 - Ø25 - Ø32 - Ø40

1



Fittings med Ø20 - Ø25 - Ø32 - Ø40 er forspændt.
Rør på 4 & 6 mtr er reifet, kalibreret og malet.

I tilfælde af afmontering af fittings, benyt drejningsmomenter som angivet i tabellen for at genmontere fittings.

Diameter	Drejningsmoment
20	300 cNm
25	300 cNm
32	400 cNm
40	650 cNm

2



Tryk rør ind i fittingen for automatisk forbindelse.

INSTALLATION Ø50 - Ø63

1

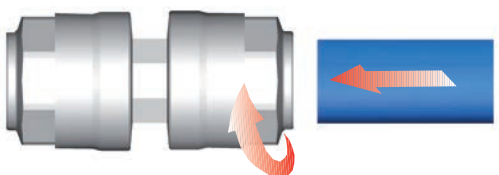


Fittings med Ø50 - Ø63 er formonteret med løsnet omløber for at lette rørforbindelsen. Rør på 4 & 6 mtr er reifet, kalibreret og malet.

Diameter	Drejningsmoment
50	75 Nm
63	75 Nm
63*	85 Nm

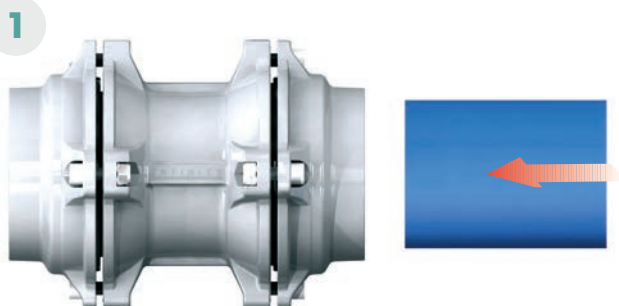
*Aluminium

2



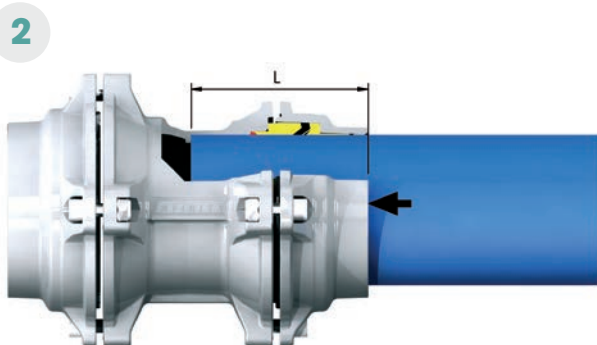
Skub rør ind i fittingen for forbindelse og spænd omløber ved at benytte drejningsmomenterne som angivet i tabellen.

INSTALLATION Ø80-Ø110

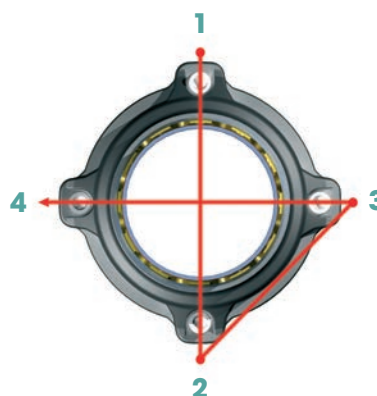


Diameter	Drejningsmoment
80	30 Nm
110	30 Nm

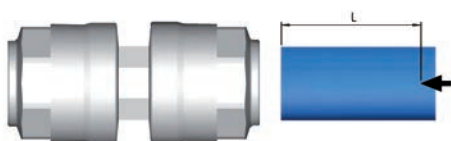
Fittings med Ø80 - Ø110 er formonteret med fire løse skruer for at lette rørforbindelsen. Rør på 4 & 6 mtr er reifet, kalibreret og malet.



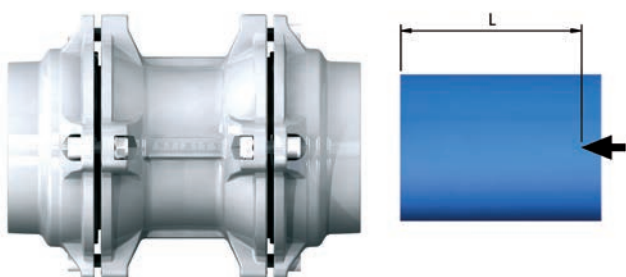
Tryk røret ind i fittingen for automatisk forbindelse og spænd i angivet rækkefølge. Stram omdrejningsmomentet 30Nm.



RØRFORBINDELSE



Den korrekte forbindelse af røret bekræftes ved positionen af pilaftrykket. Hvis der er behov for at afkorte røret, marker afstanden på røret og monter fittingen.



Diameter	L mm
20	31,5 mm
25	38,5 mm
32	46 mm
40	52 mm
50	63,5 mm
63	59 mm
63*	57,5 mm
80	91 mm
110	125,5 mm

*Aluminium

VÆLG DIAMETER TIL INSTALLATIONEN

Diagrammet nedenfor angiver bestemmelse af hovedstrengens diameter.

- 1 I den venstre kolonne, vælg kompressorens flow rate.
- 2 I den højre kolonne, vælg afstanden mellem kompressoren og det fjerneste udtag.
- 3 Lad de to kolonner krydse hinanden og vælg herved diameter.

Flow Rate			Afstand mellem kompressor og det fjerneste udtag..										
			25m	50m	100m	150m	200m	300m	400m	500m	1000m	1500m	2000m
NI/min	Nm3/h	cfm	82ft	164ft	328ft	492ft	656ft	984ft	1312ft	1640ft	3280ft	4921ft	6562ft
230	14	8	20	20	20	20	20	20	20	20	20	25	25
650	39	23	20	20	20	20	25	25	25	25	32	32	40
900	54	32	20	20	25	25	25	32	32	32	40	40	40
1200	72	42	20	20	25	25	32	32	32	32	40	40	50
1750	105	62	20	25	32	32	32	40	40	40	50	50	50
2000	120	71	25	25	32	32	32	40	40	40	50	50	50
2500	150	88	25	32	32	32	40	40	40	50	50	63	63
3000	180	106	25	32	32	40	40	40	50	50	50	63	63
3500	210	124	25	32	40	40	40	50	50	50	63	63	63
4500	270	159	32	32	40	40	50	50	50	50	63	63	80
6000	360	212	32	40	50	50	50	50	63	63	80	80	80
7000	420	247	32	40	50	50	50	63	63	63	80	80	80
8500	510	300	40	40	50	50	63	63	63	63	80	80	110
12000	720	424	40	50	63	63	63	80	80	80	110	110	110
15000	900	530	50	50	63	63	80	80	80	80	110	110	110
18000	1080	636	50	63	63	80	80	80	80	110	110	110	110
21000	1260	742	50	63	63	80	80	80	110	110	110	110	110
26000	1560	918	63	63	80	80	80	110	110	110	110	110	110
31000	1860	1095	63	63	80	80	110	110	110	110	110	110	110*
33000	1980	1165	63	80	80	110	110	110	110	110	110	110*	110*
44000	2640	1554	63	80	110	110	110	110	110	110	110*	110*	110*
50000	3000	1766	80	80	110	110	110	110	110	110	110*	110*	110*
58000	3480	2048	80	80	110	110	110	110	110	110	110*	110*	110*
67000	4020	2366	80	110	110	110	110	110	110	110*	110*	110*	110*
75000	4500	2648	80	110	110	110	110	110	110*	110*	110*	110*	110*
83000	4980	2931	80	110	110	110	110	110*	110*	110*	110*	110*	110*
92000	5520	3249	110	110	110	110	110	110*	110*	110*	110*	110*	110*
100000	6000	3531	110	110	110	110	110*	110*	110*	110*	110*	110*	110*

Tryk 7 bar - Samlet trykfald 4%

* Trykfald er højere end 4%

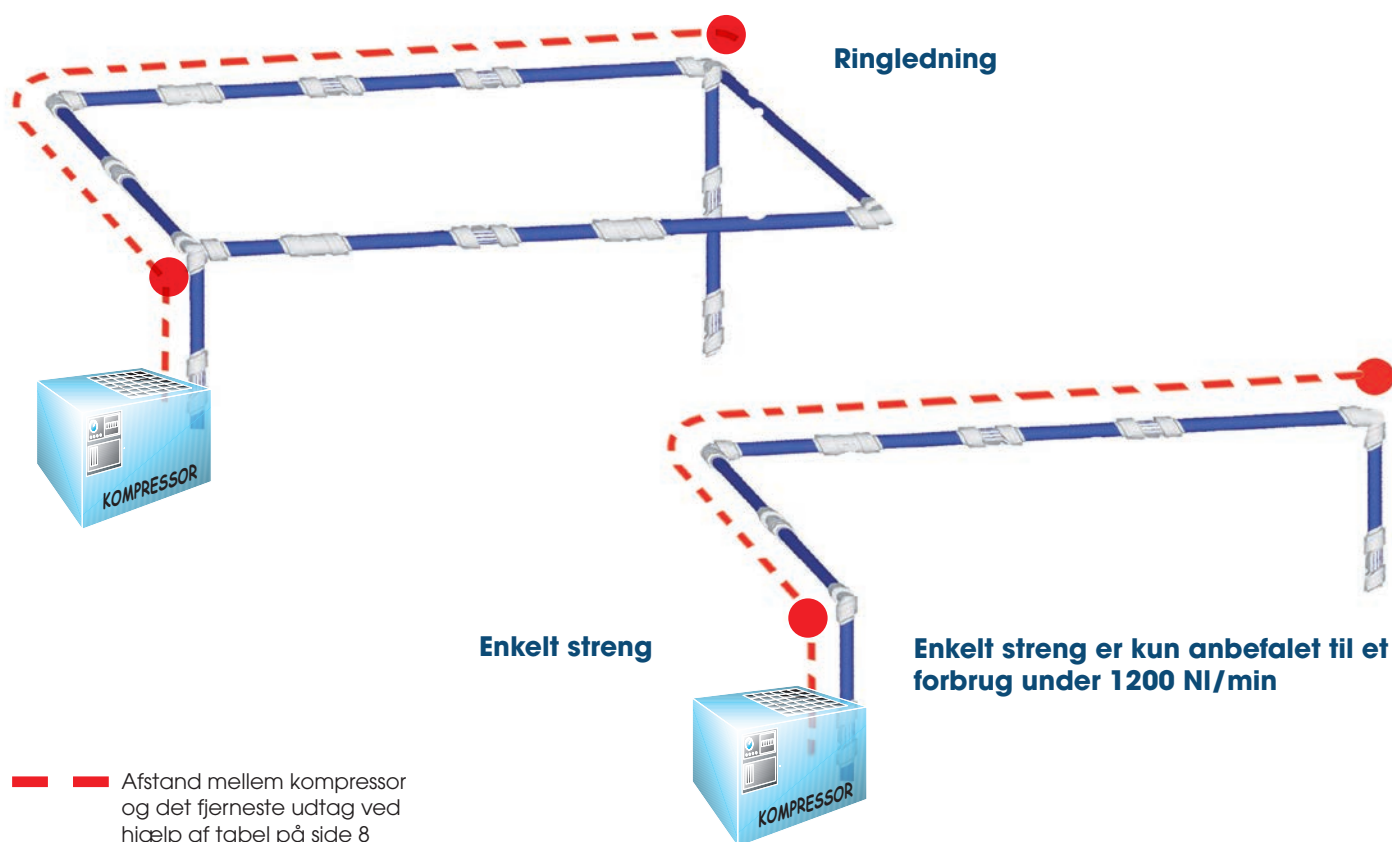
Eksempel

Flow rate: **3000 NI/min**

Afstand mellem kompressor og fjerneste punkt: **300 m**

Rørdiameter: **40**

AFSTAND MELLE KOMPRESSOR OG DET FJERNESTE UDTAG



VEJLEDENDE FLOW AF KOMPRESSORER TIL 7 BAR



KW	CV	NI/min
1.5	2	230
3	4	460
4	6	650
5.5	7,5	900
7.5	10	1200
11	15	1750
12.5	17	2000
15	20	2500
18	25	3000
22	30	3500
29	40	4500
37	50	6000
45	60	7000
55	75	8500
74	100	12000
92	125	15000
110	150	18000
132	180	21000
170	230	26000
200	270	31000
250	340	44000

RØRDIAMETER TIL UDTAG

Specifikationer vedrørende optimale rørdiametre til udtag:

Ø 20 med flow rate op til 2000 NI/min

Ø 25 med flow rate op til 3500 NI/min

Ø 32 med flow rate op til 7000 NI/min

UDVIDELSE OG SVIND GRUNDET VARMEN

For at udregne den lineære udvidelse/svind, kan følgende formel benyttes:

$$\Delta L = \Delta T \times L \times \alpha$$

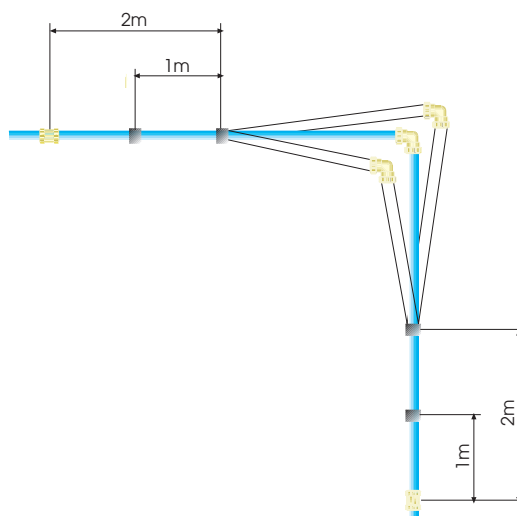
ΔL = Lineær udvidelse/svind i mm

ΔT = Varmeforandring mellem drift- og installationstemperatur i °C.

L = Rørlængde i mtr

α = Lineær udvidelsesfaktor, som for aluminium er 0,0024 mm/m °C

Installationen skal være monteret således at enderne er frie til at optage udvidelsen.



KALIBRERET ALUMINIUMSRØR GRÅ FARVE



90060GR - 6MT

Ø Udvendig mm	Godstykkelse mm	Tryk bar	Vægt gr/m	Længde m	Pakke str.
20	1.5	16	235	6 m	8
25	1.5	16	298	6 m	8
32	1.5	16	387	6 m	9
40	1.5	16	490	6 m	4
50	2	16	814	6 m	4
63	2	16	1034	6 m	2
80	2	16	1283	6 m	2
110	2.5	16	2280	6 m	1

KALIBRERET ALUMINIUMSRØR GRÅ FARVE



90040GR - 4MT

Ø Udvendig mm	Godstykkelse mm	Tryk bar	Vægt gr/m	Længde m	Pakke str.
20	1.5	16	235	4 m	8
25	1.5	16	298	4 m	8
32	1.5	16	387	4 m	9
40	1.5	16	490	4 m	9
50	2	16	814	4 m	4
63	2	16	1034	4 m	4
80	2	16	1283	4 m	2
110	2.5	16	2280	4 m	2

KALIBRERET ALUMINIUMSRØR BLÅ FARVE



90060BL - 6MT

Ø Udvendig mm	Godstykkelse mm	Tryk bar	Vægt gr/m	Længde m	Pakke str.
20	1.5	16	235	6 m	8
25	1.5	16	298	6 m	8
32	1.5	16	387	6 m	9
40	1.5	16	490	6 m	4
50	2	16	814	6 m	4
63	2	16	1034	6 m	2
80	2	16	1283	6 m	2
110	2.5	16	2280	6 m	1

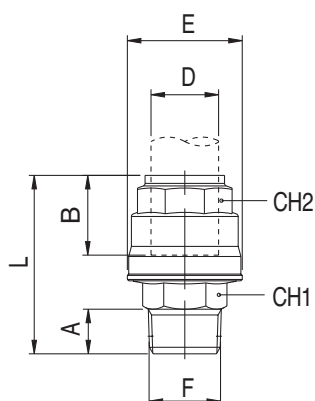
KALIBRERET ALUMINIUMSRØR BLÅ FARVE



90040BL - 4MT

Ø Udvendig mm	Godstykkelse mm	Tryk bar	Vægt gr/m	Længde m	Pakke str.
20	1.5	16	235	4 m	8
25	1.5	16	298	4 m	8
32	1.5	16	387	4 m	9
40	1.5	16	490	4 m	9
50	2	16	814	4 m	4
63	2	16	1034	4 m	4
80	2	16	1283	4 m	2
110	2.5	16	2280	4 m	2

NIPPELMUFFE UDVENDIGT GEVIND

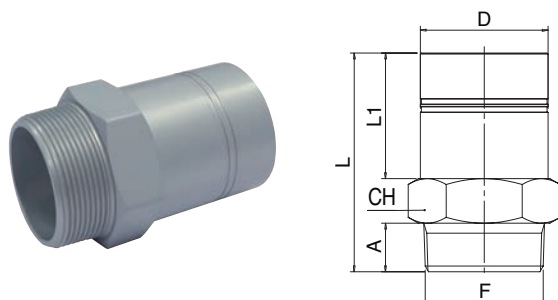


90010

D	F	A	B	E	L	CH1	CH2	Pakke str.
20 - 1/2		14	31,5	34,5	56	22	30	5
20 - 3/4		16,5	31,5	34,5	61	22	30	5
25 - 1/2		14	38,5	42,5	65	27	35	5
25 - 3/4		16,5	38,5	42,5	66	27	35	5
25 - 1"		19	38,5	42,5	70,5	27	35	5
32 - 1"		19	46	52	76,5	34	45	2
40 - 1"		19	52	63	86,5	45	55	2
40 - 1" 1/4		21,5	52	63	89,5	45	55	2
40 - 1" 1/2		21,5	52	63	92	50	55	2
50 - 1"		19	63,5	73	102,5	60	65	2
50 - 1" 1/2		21,5	63,5	73	105	50	65	2
50 - 2"		24	63,5	73	111	60	65	2
63* - 2"		24	57,5	94	109,5	65	75	2
63* - 2" 1/2		24	57,5	94	106,5	75	75	2

*Aluminium

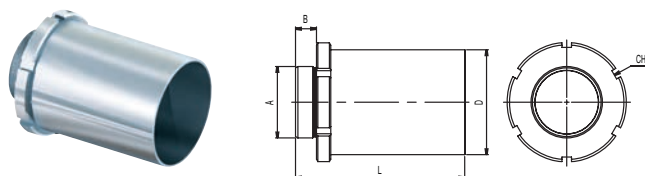
REDUKTION UDVENDIGT GEVIND



90627

D	F	A	L	L1	CH	Pakke str.
63	2"	24	108	62	65	2

REDUKTION UDVENDIGT GEVIND

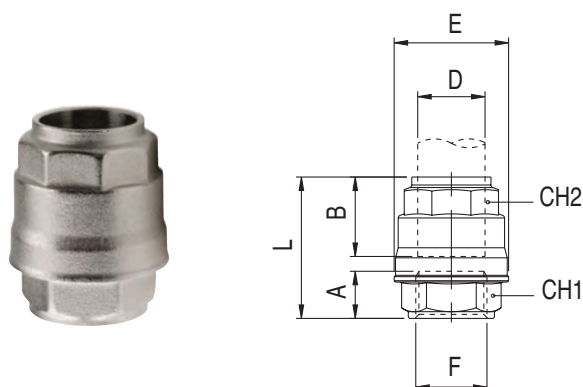


90020

D	A	B	L	CH	Pakke str.
80	2" 1/2	22	143	100*	1
80	3"	23	144	100*	1
110	2" 1/2	22	178	125*	1
110	3"	23	179	125*	1
110	4"	23	179	125*	1

* Hagenøgle dimensioner

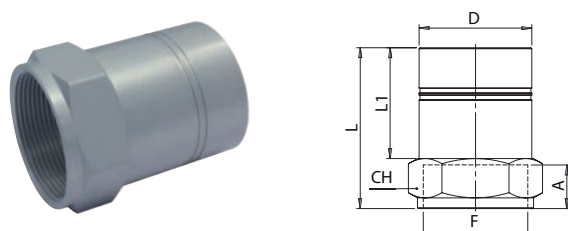
MUFFE INDVENDIGT GEVIND



90030

D	F	A	B	E	L	CH1	CH2	Pakke str.
20	1/2	15	31,5	34,5	49	24	30	5
25	3/4	16,5	38,5	42,5	56,5	32	35	5
32	1"	19	46	52	66,5	38	45	2
40	1" 1/4	22	52	63	76	50	55	2
50	1" 1/2	22	63,5	73	85,5	55	65	2

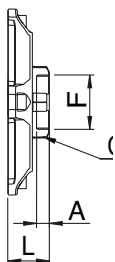
REDUKTION INDVENDIGT GEVIND



90625

D	F	A	L	L1	CH	Pakke str.
63	1" 1/2	20	84	62	65	2
63	2"	22	90	62	65	2

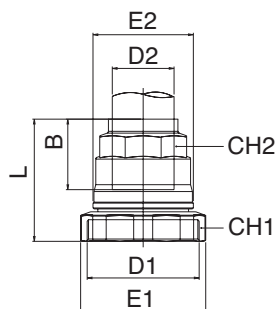
REDUKTION INDVENDIGT GEVIND



90630

D	F	A	L	CH	Pakke str.
80	3/4	14,5	42	42	1
80	1"	17	42	49	1
80	1 1/2"	20	42	66	1
80	2"	22	42	80	1
110	3/4	14,5	48	42	1
110	1"	17	48	49	1
110	1 1/2"	20	48	66	1
110	2"	22	42	80	1

REDUKTION

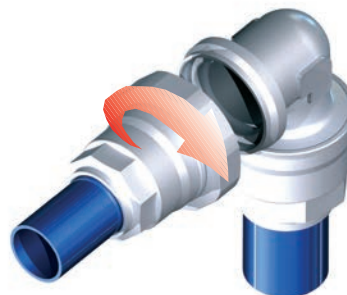


90620

D1	D2	B	E1	E2	L	CH1	CH2	Pakke str.
25	20	31,5	43,5	34,5	48	42	30	5
32	20	31,5	54	34,5	48,5	52	30	5
32	25	38,5	54	42,5	55	52	35	5
40	20	31,5	65	34,5	50	63	30	4
40	25	38,5	65	42,5	56,5	63	35	4
40	32	46	65	52	63,5	63	45	3
50	25	38,5	75	42,5	55	73	35	1
50	32	46	75	52	63,5	73	45	1
50	40	52	75	63	69	73	55	1
63	40	52	95	63	82,5	92	55	1
63	50	63,5	95	73	92,5	92	65	1

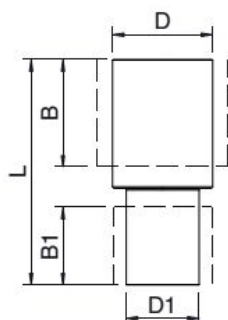


AFMONTER OMLØBER



MONTÉR ART. 90620

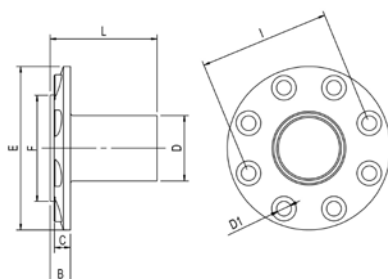
REDUKTIONSRØR



90012

D	D1	B	B1	L	Pakke str.
80 - 63		91	57,5	168	1
110 - 80		150,5	91	247	1

FLANGERØR

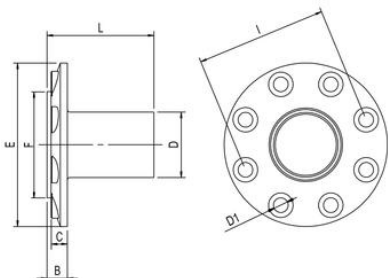


90013

D	B	C	E	F	L	D1	I	Pakke str.
80	25	20	200	130	131	18	160	1
110	25	20	220	158	166	18	180	1

Forbindelsesdimensionerne af flangen er i overensstemmelse med UNI EN 1092-4 PN 16 standard (flange lavet i aluminiumsblanding).

FLANGERØR

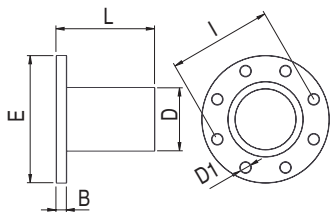


90014

D	B	C	E	F	L	D1	I	Pakke str.
80	25	20	190,5	130	131	19	152,4	1
110	25	20	228,6	158	166	19	190,5	1

Forbindelsesdimensionerne af flangen er i overensstemmelse med ANSI 150-LB standard (flange lavet i aluminiumsblanding).

FLANGERØR

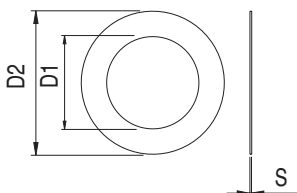


90015

D	B	E	L	D1	I	Pakke str.
80	20	200	155	18	160	1
110	20	220	183	18	180	1

Forbindelsesdimensionerne af flangen er designet i overensstemmelse med UNI EN 1092-4 PN 16 standard (flange lavet i aluminiumsblanding).

FLANGEPAKNING



90017

D	D1	D2	S	Pakke str.
80	90	140	2	1
110	115	162	2	1

FLANGE BOLTSÆT

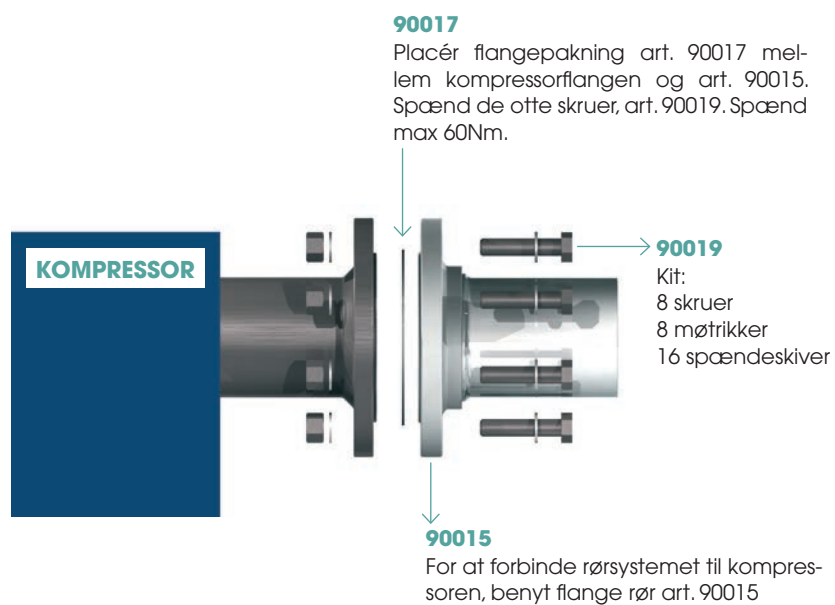


90019

		Pakke str.
M16	65 mm	1

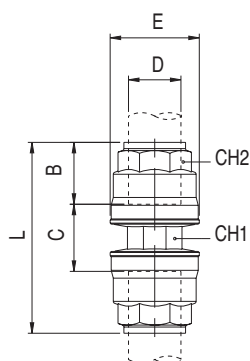
Kit: 8 skruer + møtrikker + 16 spændeskiver

INSTALLATION 90015



Endelig montering.

LIGE SAMLER

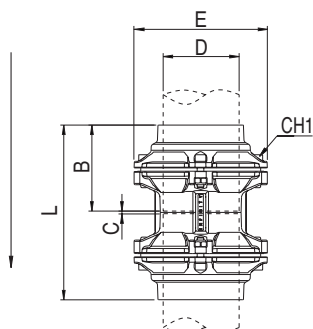


90040

D	B	C	E	L	CH1	CH2	Pakke str.
20	31,5	14,5	34,5	76,5	21	30	2
25	38,5	13,5	42,5	90,5	26	35	2
32	46	14,5	52	106,5	32	45	2
40	52	21	63	125	41	55	2
50	63,5	21,5	73	148,5	50	65	2
63*	57,5	44	94	159	73	75	1

*Aluminium

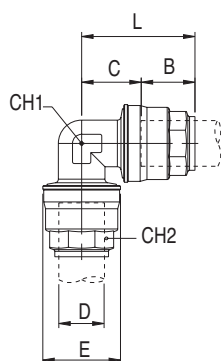
LIGE SAMLER



90040

D	B	C	E	L	CH1	Pakke str.
80	91	3,5	145	186	6	1
110	125,5	4	200	255	8	1

VINKEL 90°

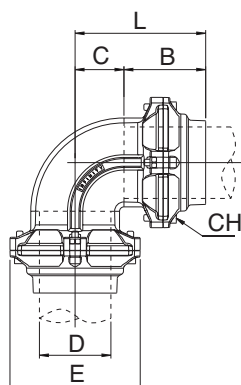


90130

D	B	C	E	L	CH1	CH2	Pakke str.
20	31,5	19	34,5	51	21	30	4
25	38,5	23	42,5	61,5	26	35	4
32	46	28	52	74,5	34	45	2
40	52	34	63	86,5	41	55	2
50	63,5	40,5	73	104	50	65	2
63*	57,5	55,5	94	113	73	75	1

*Aluminium

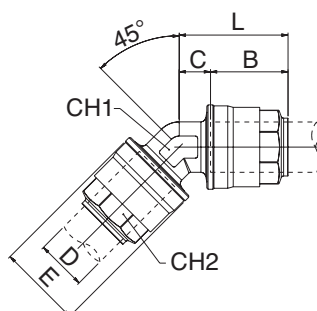
VINKEL 90°



90130

D	B	C	E	L	CH	Pakke str.
80	91	54,5	145	146	6	1
110	125,5	75	200	200,5	8	1

VINKEL 45°

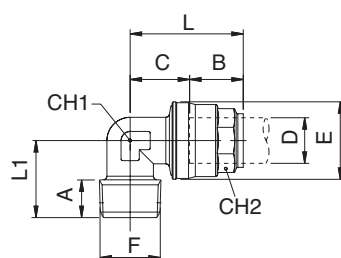


90140

D	B	C	E	L	CH1	CH2	Pakke str.
20	31,5	12,5	34,5	44	21	30	4
25	38,5	13,5	42,5	52	26	35	4
32	46	15	52	61	34	45	2
40	52	18	63	70	41	55	2
50	63,5	20	73	83,5	50	65	2
63*	57,5	24	94	82	73	75	1

*Aluminium

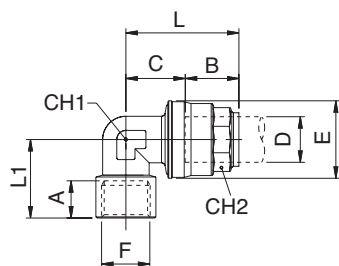
VINKEL 90° UDVENDIGT GEVIND



90150

D	F	A	B	C	E	L	L1	CH1	CH2	Pakke str.
20 - 1/2		14	31,5	19	34,5	51	32	21	30	4
25 - 3/4		16,5	38,5	23	42,5	61,5	37	26	35	4
32 - 1"		19	46	28	52	74,5	49	34	45	2
40 - 1" 1/4		21,5	52	34	63	86,5	54	41	55	2
50 - 1" 1/2		21,5	63,5	40,5	73	104	59	50	65	2

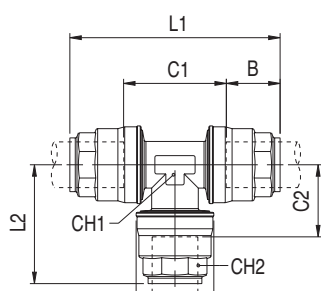
VINKEL 90° INDVENDIGT GEVIND



90160

D	F	A	B	C	E	L	L1	CH1	CH2	Pakke str.
20 - 1/2		13	31,5	19	34,5	51	34,5	21	30	4
25 - 3/4		14,5	38,5	23	42,5	61,5	38,5	26	35	4
32 - 1"		16,5	46	28	52	74,5	47,5	34	45	2
40 - 1" 1/4		20	52	34	63	86,5	56,5	41	55	2
50 - 1" 1/2		22	63,5	40,5	73	104	64,7	50	65	2

TEE-STYKKE

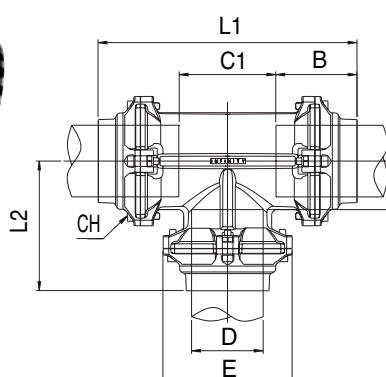


90230

D	E	B	C1	C2	L1	L2	CH1	CH2	Pakke str.
20	34,5	31,5	34,5	22,5	98	54,5	21	30	3
25	42,5	38,5	37,5	26	113,5	65	26	35	3
32	52	46	46,5	31,5	138,5	77	34	45	2
40	63	52	55,5	38	159,5	90	41	55	1
50	73	63,5	69	44,5	196	108	50	65	1
63*	94	57,5	111	55,5	226	113	73	75	1

*Aluminium

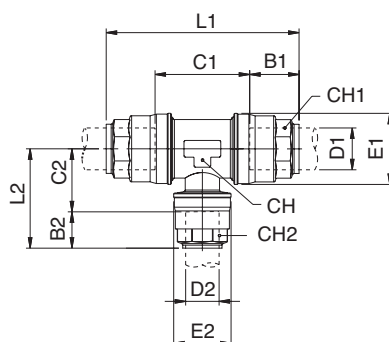
TEE-STYKKE



90230

D	E	B	C1	C2	L1	L2	CH	Pakke str.
80	145	91	109	54,5	291,5	138	6	1
110	200	125,5	150,5	75	401	200,5	8	1

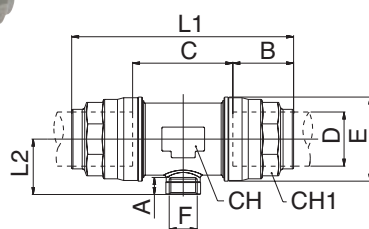
REDUKTIONS-TEE MED KONDENSSPÆRRE



90235

D1	D2	B1	B2	C1	C2	E1	E2	L1	L2	CH	CH1	CH2	Pakke str.
20 - 20	31,5	31,5	48	22,5	34,5	34,5		109	54	28	30	30	3
25 - 20	38	31,5	45,5	27,5	42,5	34,5		121,5	59	35	35	30	3
32 - 20	46	31,5	54,5	31,5	52	34,5		146,5	63	45	45	30	2
32 - 25	46	38	54,5	31,5	52	42,5		146,5	70	45	45	35	2
40 - 20	52,5	31,5	60	34,5	63	34,5		165,5	66	55	55	30	2
40 - 25	52,5	38	60	34,5	63	42,5		165,5	73	55	55	35	2
50 - 20	63,5	31,5	73,5	41,5	73	34,5		201	73	65	65	30	1
50 - 25	63,5	38,5	73,5	41	73	42,5		201	80	65	65	35	1
50 - 32	63,5	46	73,5	41	73	52		201	87,5	65	65	45	1

REDUKTIONS-TEE MED KONDENSSPÆRRE

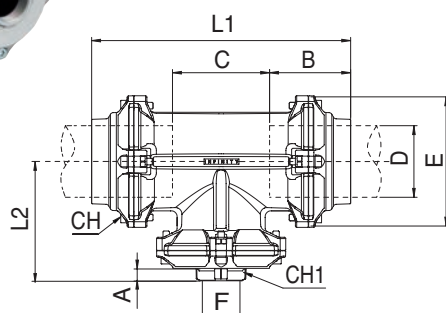


90236

D	F	A	B	C	E	L	L1	CH1	CH2	Pakke str.
20 - 3/8		11	31,5	48	34,5	109	25	28	30	3
20 - 1/2		13,5	31,5	48	34,5	109	28	28	30	3
25 - 3/8		11	38,5	45,5	42,5	121,5	29	35	35	3
25 - 1/2		13,5	38,5	45,5	42,5	121,5	31	35	35	2
32 - 1/2		13,5	46	54,5	52	146,5	36,5	45	45	2
40 - 1/2		13,5	52,5	60	63	165,5	41,5	55	55	2
50 - 3/4		14,5	63,5	73,5	73	201	47,5	65	65	1
63*- 1/2		13,5	57,5	88	94	203	53	80	75	1
63*- 3/4		14,5	57,5	88	94	203	54	80	75	1
63*- 1"		17,5	57,5	88	94	203	56,5	80	75	1

*Aluminium

REDUKTIONS-TEE MED KONDENSSPÆRRE



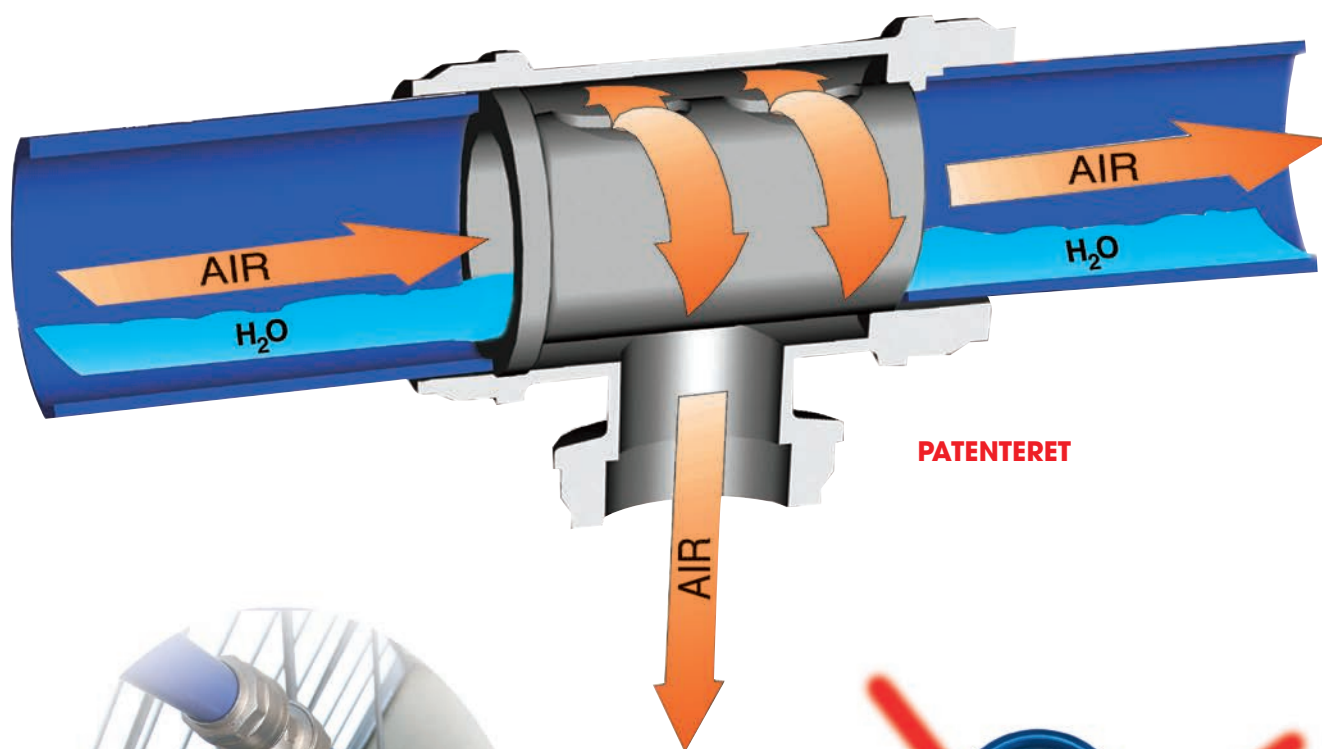
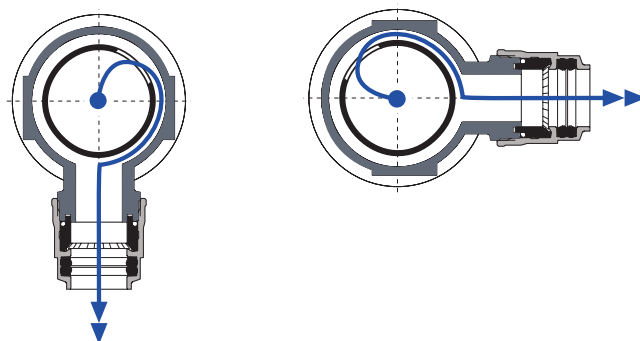
90236

D	F	A	B	C	E	L	L1	CH1	CH2	Pakke str.
80 - 3/4		14,5	91	109	145	291,5	138	6	42*	1
80 - 1"		17	91	109	145	291,5	138	6	49*	1
80 - 1" 1/2		20	91	109	145	291,5	138	6	66*	1
80 - 2"		22	91	109	145	291,5	138	6	80*	1
110 - 3/4		14,5	125,5	150,5	200	401	180	8	42*	1
110 - 1"		17	125,5	150,5	200	401	180	8	49*	1
110 - 1" 1/2		20	125,5	150,5	200	401	180	8	66*	1
110 - 2"		22	125,5	150,5	200	401	180	8	80*	1

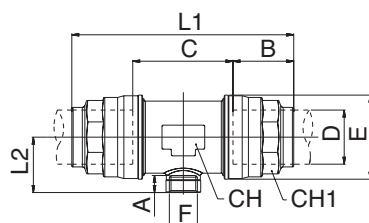
*Hagenøgle dimensioner

FUNKTION 90235 - 90236

Denne fitting er et alternativ til den traditionelle anbring; den viser sig at være en hurtigere og mere omkostningsmæssig effektiv løsning. Det effektive indre system tillader luften at komme ned til udtaget uden nogen former for kondensvand, som derfor forbliver i hovedstrengen og kan aftappes efter behov.



REDUKTIONS-TEE MED KONDENSAFTAP

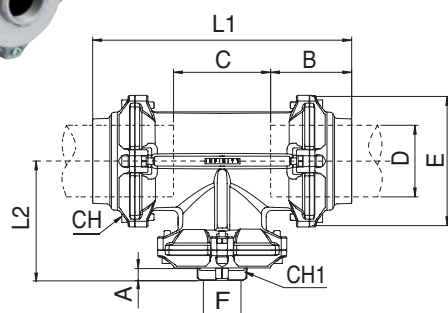


90250

D	F	A	B	C	E	L	L1	CH1	CH2	Pakke str.
63* - 1/2		13,5	57,5	88	94	203	53	80	75	1

*Aluminium

REDUKTIONS-TEE MED KONDENSAFTAP

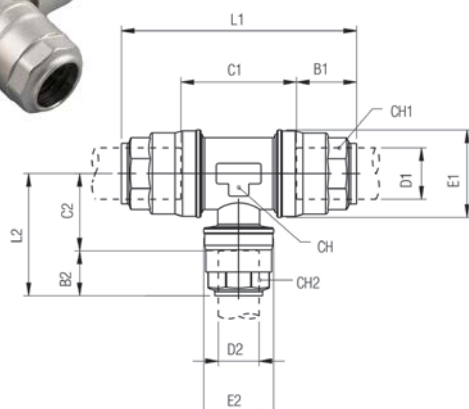


90250

D	F	A	B	C	E	L	L1	CH1	CH2	Pakke str.
80 - 3/4		14,5	91	109	145	291,5	138	6	42*	1
110 - 3/4		14,5	125,5	150,5	200	401	180	8	42*	1

*Hagenøgle dimensioner

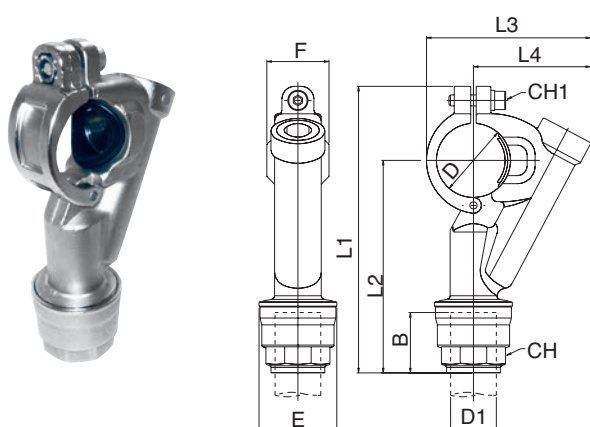
REDUKTIONS-TEE MED KONDENSAFTAP



90259

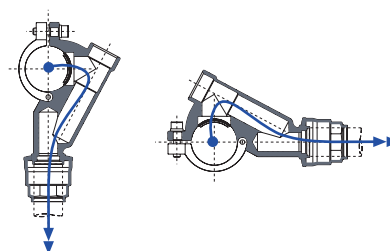
D1	D2	B1	B2	C1	C2	E1	E2	L1	L2	CH	CH1	CH2	Pakke str.
20 - 20		31,5	31,5	48	22,5	34,5	34,5	109	54	28	30	30	3
25 - 20		38	31,5	45,5	27,5	42,5	34,5	121,5	59	35	35	30	3
32 - 20		46	31,5	54,5	31,5	52	34,5	146,5	63	45	45	30	2
40 - 20		52,5	31,5	60	34,5	63	34,5	165,5	66	55	55	30	2
50 - 20		63,5	31,5	73,5	41,5	73	34,5	201	73	65	65	30	2

ANBORINGSBØJLE

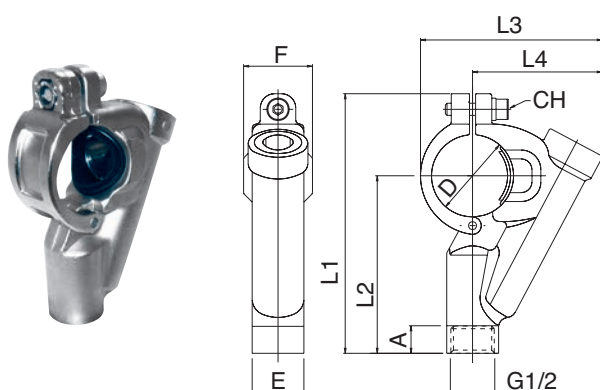


90240

D1	D2	B	E	F	L1	L2	L3	L4	CH	CH1	Pakke str.
32 - 20		31,5	34,5	34	136,5	100,5	78	57	30	5	6
32 - 25		38,5	42,5	34	144,5	108,5	78	57	35	5	6
40 - 20		31,5	34,5	34	148,5	108	89,5	64	30	5	4
40 - 25		38,5	42,5	34	156,5	116	89,5	64	35	5	4
50 - 20		31,5	34,5	42,5	167,5	118,5	105,5	74	30	6	5
50 - 25		38,5	42,5	42,5	175,5	126,5	105,5	74	35	6	1
63 - 20		31,5	34,5	42,5	185	130	119	81	30	6	1
63 - 20		38,5	42,5	42,5	193	138	119	81	35	6	1



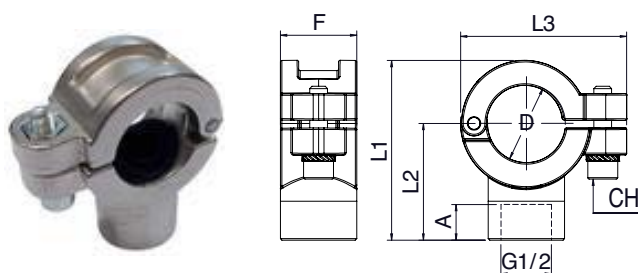
ANBORINGSBØJLE INDVENDIGT GEVIND



90246

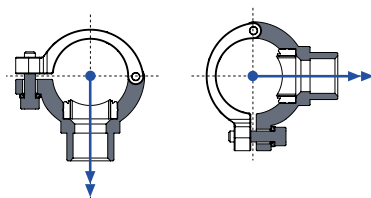
D	G	A	E	F	L1	L2	L3	L4	CH	Pakke str.
32 - 1/2		13	25,5	34	115	79	78	57	5	2
40 - 1/2		13	25,5	34	125,5	85	89,5	64	5	2
50 - 1/2		13	25,5	42,5	144,5	95,5	105,5	74	6	2
63 - 1/2		13	25,5	42,5	162	107	119	81	6	1

ANBORINGSBØJLE INDVENDIGT GEVIND

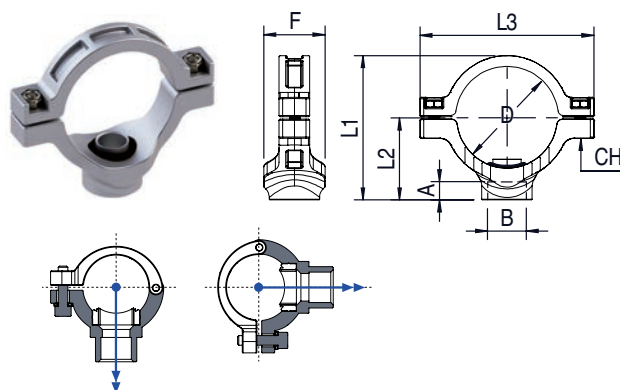


90247

D	G	A	F	L1	L2	L3	CH	Pakke str.
25 - 1/2		15	25,5	50	39	55,5	5	2
32 - 1/2		15	34	63,5	42,5	61,5	5	2
40 - 1/2		15	34	71	46	70	5	2
50 - 1/2		15	42,5	83,5	52	84,5	6	2
63 - 1/2		15	42,5	95,5	57,5	97	6	2



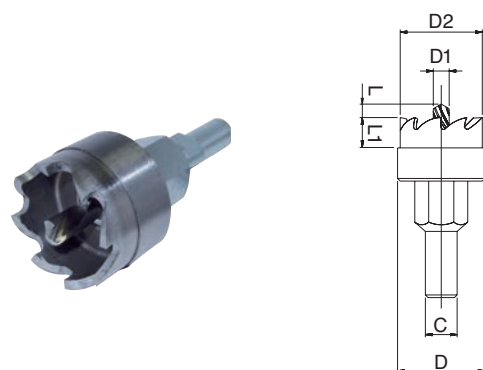
ANBORINGSBØJLE INDVENDIGT GEVIND



90247

D	B	A	F	L1	L2	L3	CH	Pakke str.
80 - 3/4		16,5	50	117,5	66,5	141,5	6	1
80 - 1"		19	50	120	69	141,5	6	1
110 - 3/4		16,5	50	152,5	82	189,5	8	1
110 - 1"		19	50	155	84,5	189,5	8	1

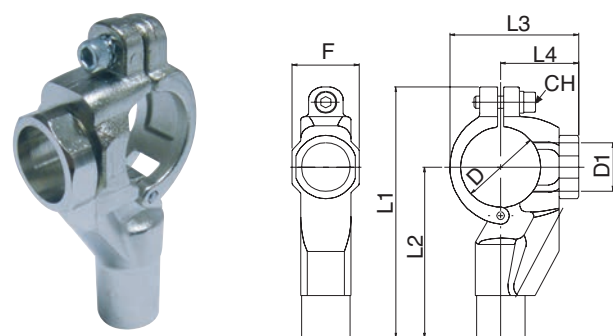
BOR TIL ANBORING



90241

D	C	D	D1	D2	L	L1	Pakke str.
25	9	17,5	6	17	3	10	1
32 - 40	9	24	6	23,5	3	10	1
50 - 63	9	31	6	30,5	3	9	1
80 - 110	9	24	6	23,5	3	10	1

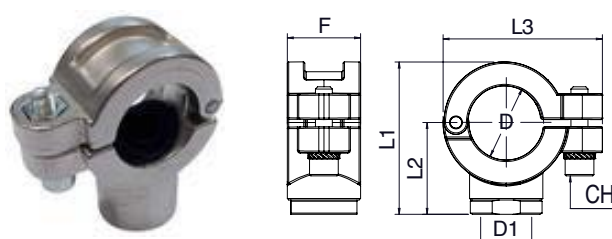
VÆRKTØJ TIL ANBORING



90242

D	D1	F	L1	L2	L3	L4	CH	Pakke str.
32	24,5	34	115	79	56	35	5	1
40	24,5	34	127	86,5	65	39,5	5	1
50	32	42,5	146	97	79	47,5	6	1
63	32	42,5	163,5	108,5	93	55	6	1

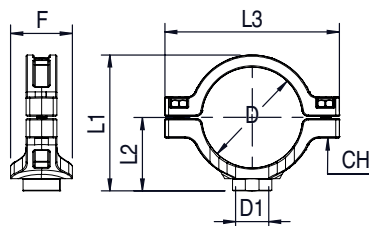
VÆRKTØJ TIL ANBORING



90249

D	D1	F	L1	L2	L3	CH	Pakke str.
25	17,8	25,5	53	32	55,5	5	1
32	24,5	34	56	35	61,5	5	1
40	24,5	34	65	40	70	5	1
50	32	42,5	79	47,5	84,5	6	1
63	32	42,5	93	55	97	6	1

VÆRKTØJ TIL ANBORING



90249

D	D1	F	L1	L2	L3	CH	Pakke str.
80	24,5	50	110,5	59,5	141,5	6	1
110	24,5	50	135,5	64,5	189,5	8	1

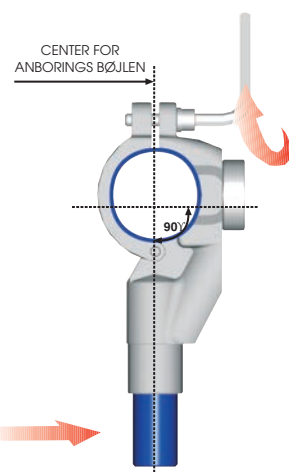
INSTALLATION 90240

Anboringsbøjlen gør det muligt at opsætte et nyt udtag i et eksisterende system uden at skulle fjerne rør.



1

Manometer.
Rør skal være trykløst.



2

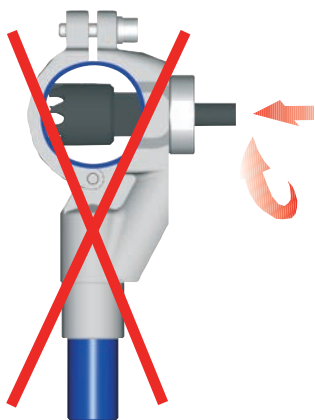
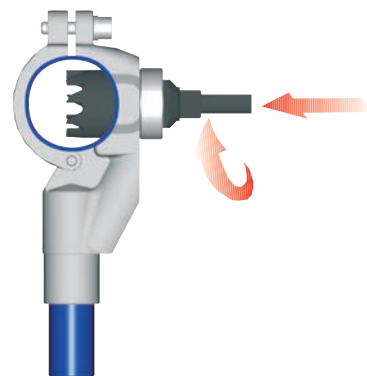
Art. 90242/90249

Monter anboringsværktøjet på røret. Vær opmærksom på, at bruge den stiplede linje på røret, for at hurtiggøre montagen. Det er muligt at forbinde et rør med Ø 20 i diameter for at lette placeringen af anboringsbøjlen.

3

Art. 90241

Bor i røret med det rette værktøj art. 90241.



4

Art. 90242/90249

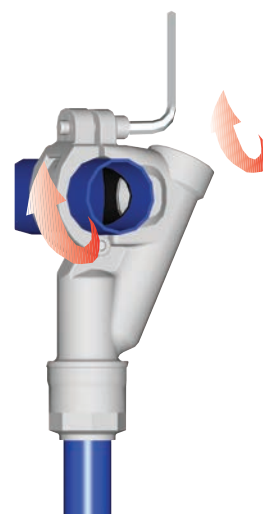
Beskadig ikke røret!



5

Art. 90242/90249

Demontér anboringsværktøjet og fjern det resterende materiale. Rejf hullet for grater.



6

Art. 90240/90246/90247

Monter og spænd anbringen. Vær opmærksom på, at pakningen passer korrekt i hullet. Spænd til sidst skruen.

BOREVÆRKTØJ TIL ANBORING VED TRYK



90252

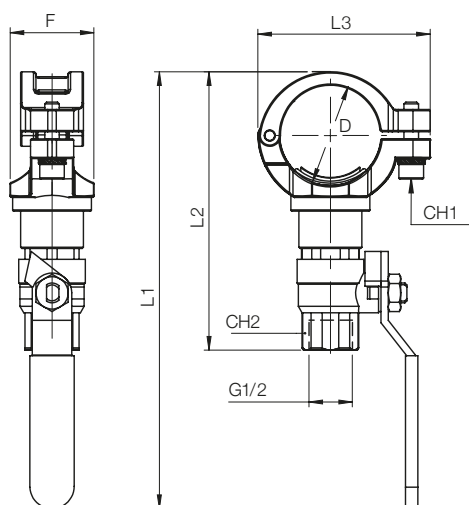
D	Pakke
	str.
25-32-40-50-63	1

VÆRKTØJ TIL ANBORING MED KUGLEHANE VED TRYK



90253

D	G	F	L1	L2	L3	CH1	CH2	Pakke
								str.
25 - 1/2		25.5	161	97.5	55.5	5	25	1
32 - 1/2		34	168	104	61.5	5	25	1
40 - 1/2		34	176	112	70	5	25	1
50 - 1/2		42.5	188	125	84.5	5	25	1
63 - 1/2		42.5	200	137	97	5	25	1



ANVENDELSE AF BOREVÆRKTØJ



1

Monter art. 90253 på røret, spænd forsigtigt og åbn kuglehanen.



2

Monter art. 90252 på kuglehanen og spænd den forsigtigt.



3

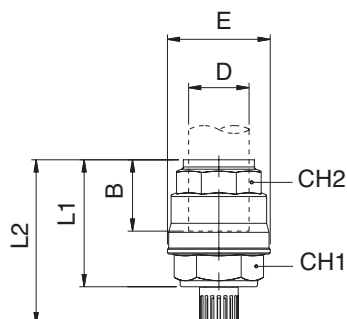
Monter boremaskinen på art. 90252 og bor forsigtigt gennem røret.



4

Demontér boremaskinen, træk boret tilbage og luk for kuglehanen. Til sidst demonteres art. 90252.

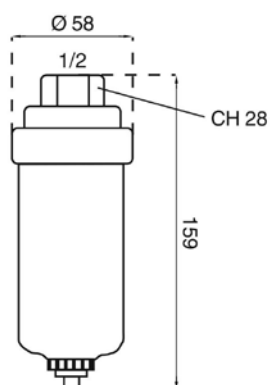
SLUTMUFFE MED INDBYGGET KONDENSAFTAP



90260

D	B	E	L1	L2	CH1	CH2	Pakke str.
20	36	34,5	52,5	67	32	30	2
25	38,5	42,5	57,5	72	32	35	2

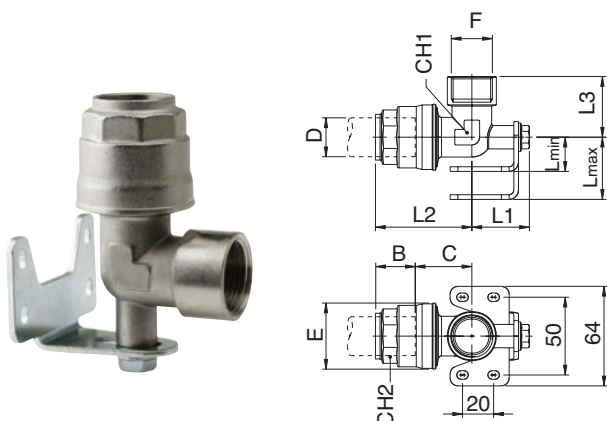
KONDENSDRÆN



90286

F	Funktion	Pakke str.
MOI - 1/2	Manuel/semiautomatisk	1
AO2 - 1/2	Automatisk	1

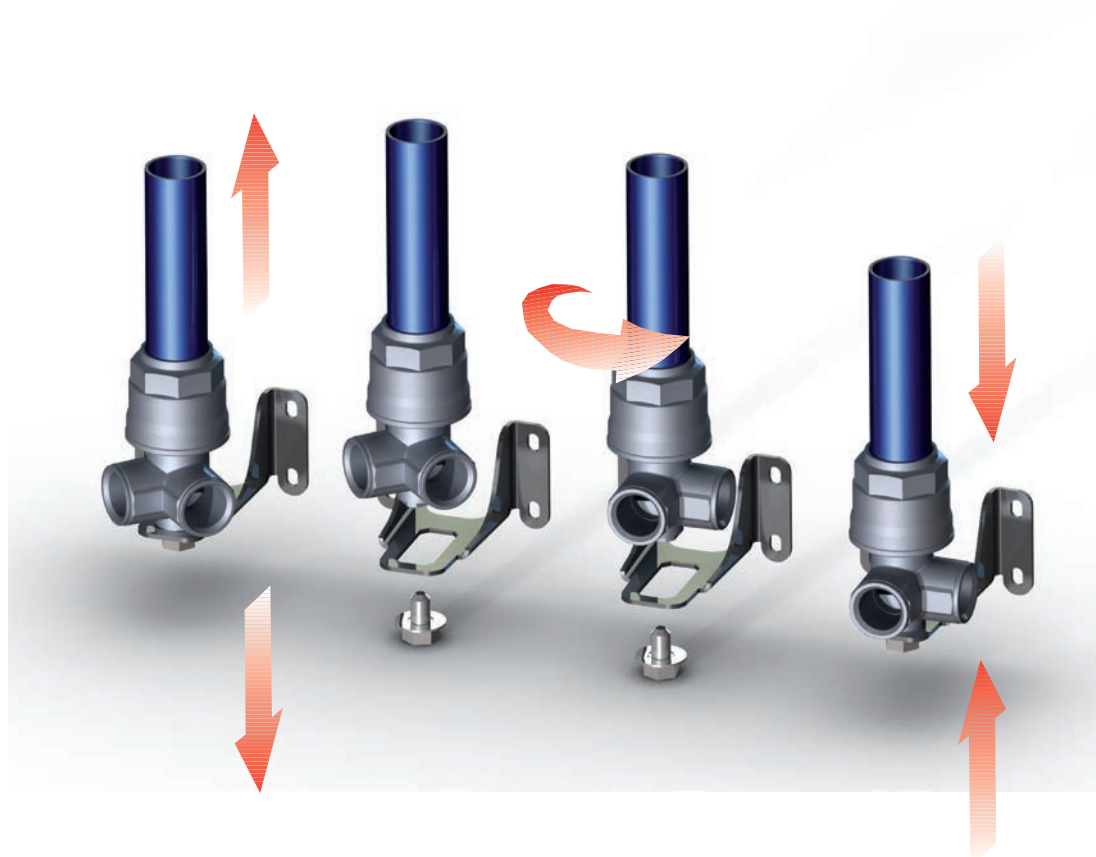
VÆGUDTAG ENKELT



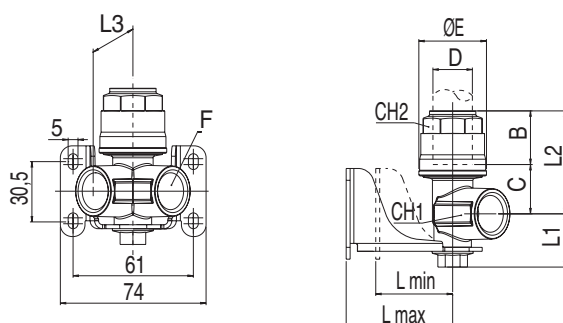
90600

D1	F	B	C	E	L1	L2	L3	Lmax	Lmin	CH1	CH2	Pakke str.
20 - 1/2		31,5	19,5	34,5	35	51	35	40	22	21	30	4
25 - 3/4		38,5	23	42,5	37	62	39	40	22	26	35	3
32 - 1"		46	28	52	41	74,5	48,5	40	26	34	45	2

Justérbar



VÆGUDTAG DOBBELT



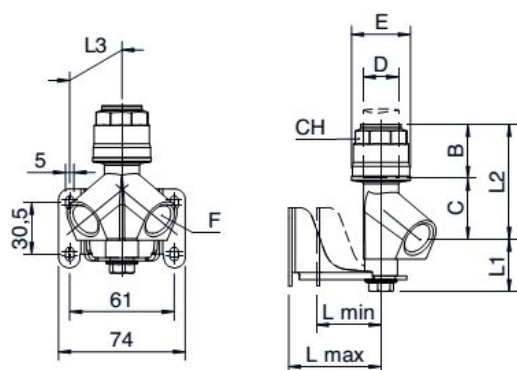
90602

D1	F	B	C	E	I	L1	L2	Lmin	Lmax	CH1	CH2	Pakke str.
20 - 1/2		31,5	20	34,5	28,5	27	51,5	22	54	26	30	2
25 - 1/2		38,5	21	42,5	28,5	27	59	22	54	26	35	2

Justérbar



VÆGUDTAG DOBBELT 45°



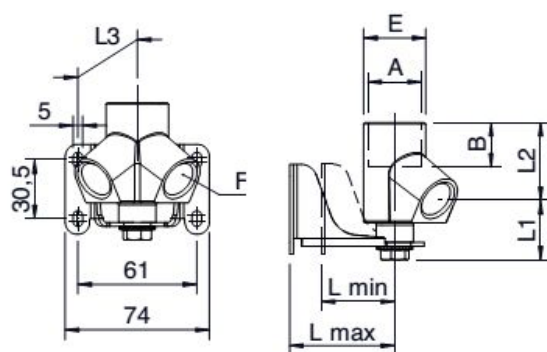
90660

D1	F	B	C	E	L1	L2	L3	Lmin	Lmax	CH1	Pakke str.
20 - 1/2		31,5	34,5	34,5	31	66	37,5	22	54	30	2
25 - 1/2		38,5	33	42,5	31	71,5	37,5	22	54	35	2

Justérbar



VÆGUDTAG DOBBELT 45°



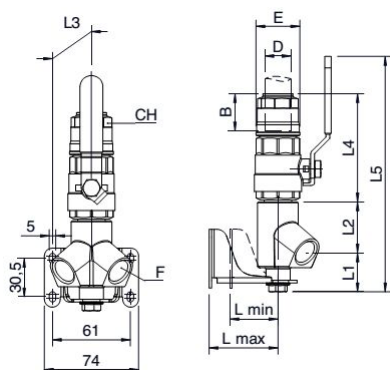
90662

E	A	B	E	L1	L2	L3	Lmin	Lmax	Pakke str.
1/2 - 1/2		13	32	31	40,5	37,5	22	54	2
1/2 - 3/4		16,5	32	31	39	37,5	22	54	2

Justérbar



VÆGUDTAG DOBBELT 45° M. KUGLEHANE

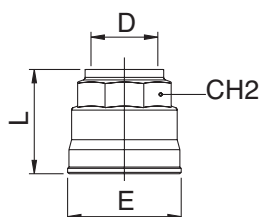


90664

D1	F	B	E	L1	L2	L3	L4	L5	Lmin	Lmax	CH	Pakke str.
20 - 1/2		31,5	34,5	31	40,5	37,5	84,5	184	22	54	30	2
25 - 1/2		38,5	42,5	31	39	37,5	101,5	209	22	54	35	2

Fuldt gennemløb
Justérbar

SLUTMUFFE

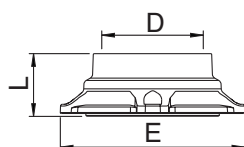


90610

D	L	E	CH2	Pakke str.
20	33	34,5	30	10
25	39	42,5	35	6
32	46,5	52	45	4
40	53	63	55	4
50	62	73	65	2
63*	64	94	75	1

*Aluminium

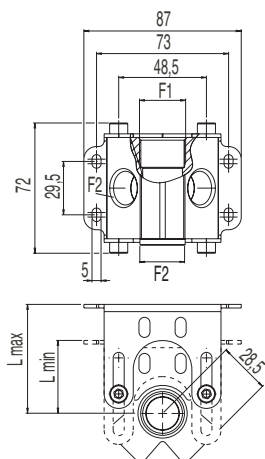
SLUTMUFFE



90610

D	L	E	Pakke str.
80	49,5	145	1
110	68	200	1

2 HULS MANIFOLD

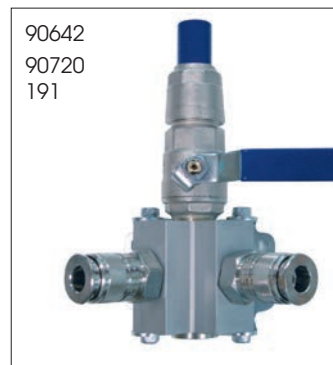
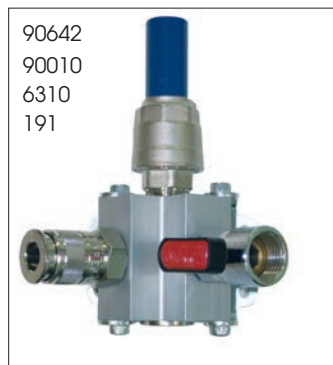


90642

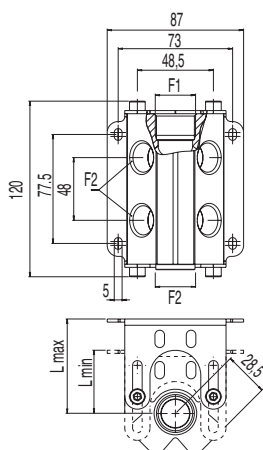
F1	F2	n°	Lmax	Lmin	Pakke str.
1/2	1/2	2	60	35	1
3/4	1/2	2	60	35	1

Justérbar

MANIFOLD EKSEMPEL



4 HULS MANIFOLD



90644

F1	F2	n°	Lmax	Lmin	Pakke str.
1/2	1/2	4	60	35	1
3/4	1/2	4	60	35	1

Justérbar

MANIFOLD EKSEMPEL

90644
90010
661



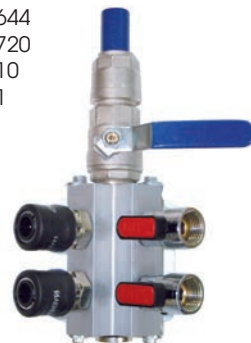
90644
90720
661



90644
90010
6310
661



90644
90720
6310
661



90644
90010
191



90644
90720
191



90644
90010
6310
191



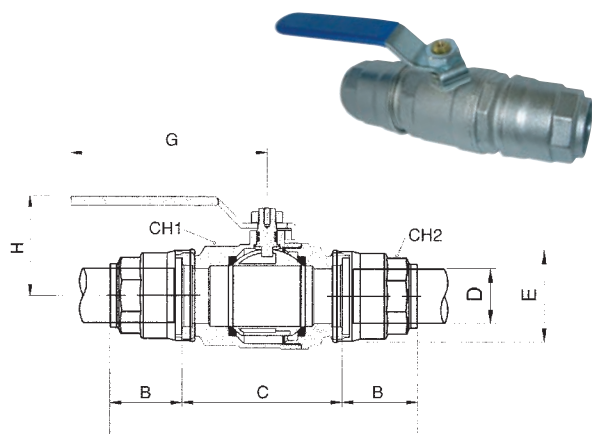
90644
90720
6310
191



90644
90010
2060
T100
661



KUGLEHANE



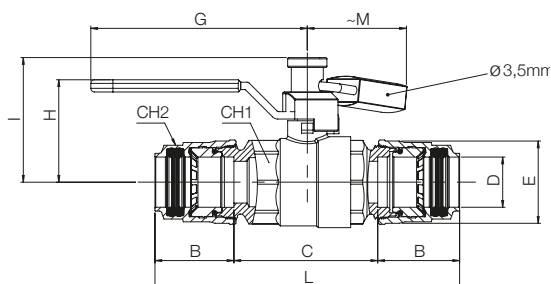
90700

D	(DN)	B	C	E	L	CH1	CH2	G	H	Pakke str.
20	17	31,5	58,5	34,5	121,5	32	30	88	42	2
25	22	38,5	61,5	42,5	138,5	41	35	106	47,5	2
32	29	46	75	52	167	50	45	106	53	2
40	37	52,5	81	63	186	59	55	134	65	1
50	46	63,5	103	73	230	69	65	134	72,5	1
63*	59	57,5	126	94	232	89	75	240	111,5	1

*Aluminium

Fuldt gennemløb

KUGLEHANE MED LÅS

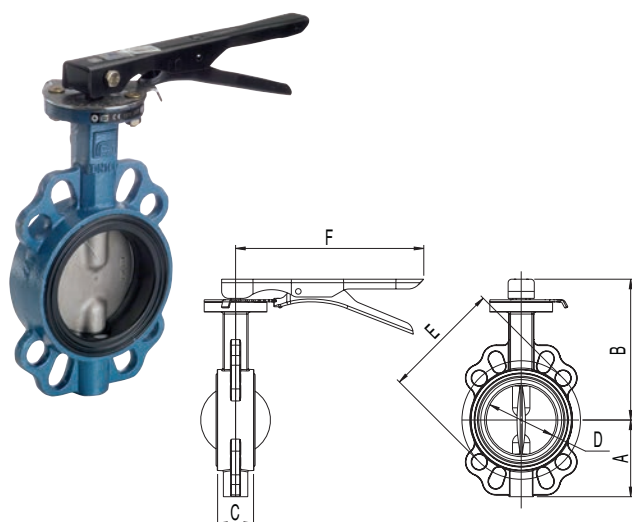


90705

D	(DN)	B	C	E	L	CH1	CH2	G	H	I	M	Pakke str.
20	17	31,5	58,5	34,5	121,5	32	30	88	42	50,7	45	2
25	22	38,5	61,5	42,5	138,5	41	35	106	47,5	59,5	45	2
32	29	46	75	52	167	50	45	106	53	65	45	2
40	37	52,5	81	63	186	59	55	134	65	74,5	47	1
50	46	63,5	103	73	230	69	65	134	72,5	82	47	1

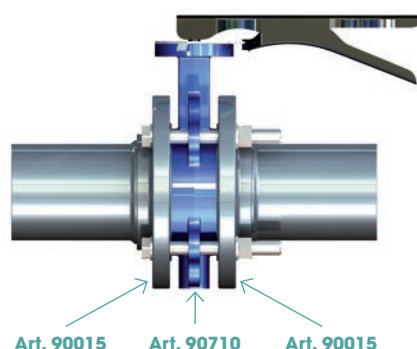
Fuldt gennemløb

BUTTERFLYVENTIL

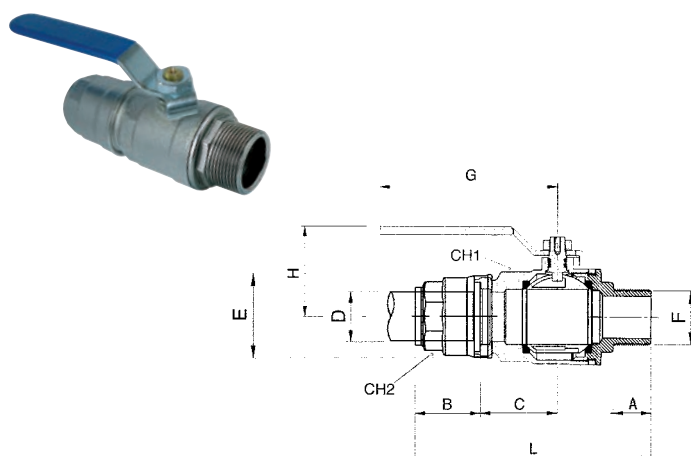


90710

D	DN	A	B	C	E	F	Pakke str.
80	77	87	216	46	160	210	1
110	100	106	201	52	180	210	1



KUGLEHANE UDVENDIGT GEVIND



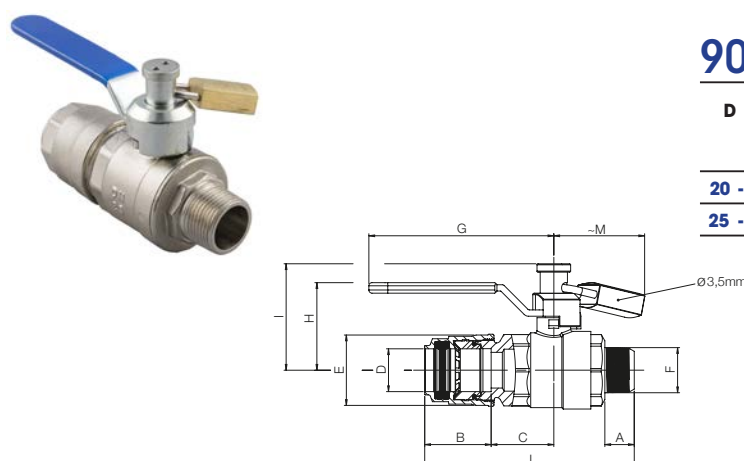
90720

D	F	DN	A	B	C	E	L	CH1	CH2	G	H	Pakke str.
20 - 1/2	15	18	31,5	29,3	34,5	100,8	32	30	88	42	2	
25 - 3/4	20	18	38,5	30,8	42,5	119,3	41	35	106	47,5	2	

Fuldt gennemløb

Fuldt gennemløb

KUGLEHANE MED UDVENDIGT GEVIND OG LÅS



90725

D	F	DN	A	B	C	E	L	CH1	CH2	G	H	I	M	Pakke str.
20 - 1/2	15	18	31,5	29,3	34,5	100,8	32	30	88	42	50,7	45	2	
25 - 3/4	20	18	38,5	30,8	42,5	119,3	41	35	106	47,5	59,5	45	2	

Fuldt gennemløb

Fuldt gennemløb

PNEUMATISK VENTIL

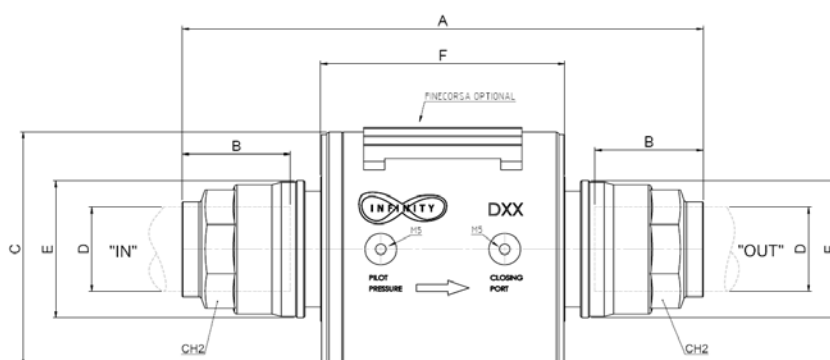


90740

D	Kv	A	B	C	E	F	CH2	Pakke str.
32	78	198	46	89	52	92,6	45	1
40	101	208	52	89	63	92,6	55	1
50	168	249	63,5	109	73	110	65	1
63	300	269	57,5	139	94	140,3	75	1



Tryk: 15 bar (1,5 MPa)



MICROVENTIL 3/2

Varenr.	Veje	Funktion	Dimension	Pakke str.
02V D0 3 NC B5	3/2	NC	M5	1

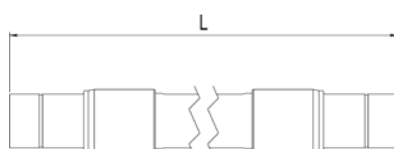


NØGLEAKTIVERING FOR VENTIL

Varenr.	Farve	Funktion	Position nøgle ud	Pakke str.
04V 03 0 00 02	Sort	0-1	Begge	1



TILSLUTNINGSSLANGE



90806

Ø	Længde i mm							Pakke
								str.
20	750	1000	-	2000	-	-	-	1
25	-	1000	-	2000	-	-	-	1
32	-	1000	-	2000	-	3000	-	1
40	-	1000	-	2000	-	3000	-	1
50	-	-	1500	-	2500	-	3500	1
63	-	-	1500	-	2500	-	3500	1



Maks. 15 bar



Temperatur -15° C til +200° C

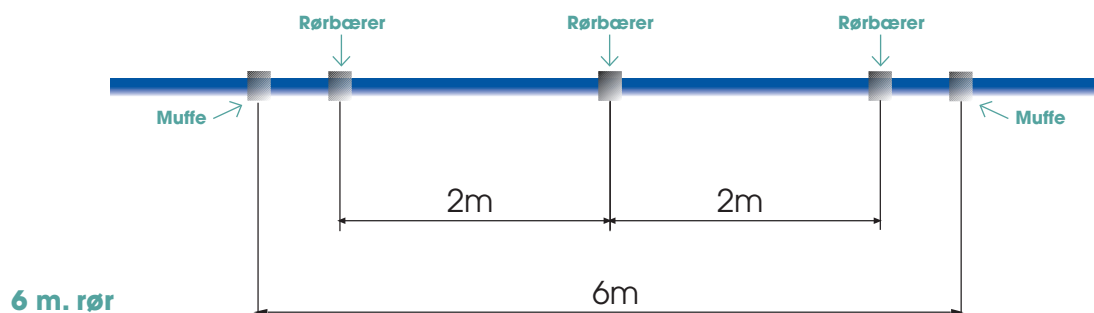
SIKKERHEDS-WIRE TIL ARTIKEL 90806



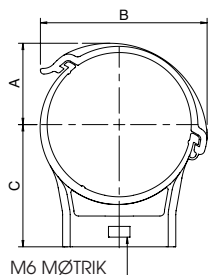
90808

D	Pakke str.
	1

BÆRINGSPLACERINGER



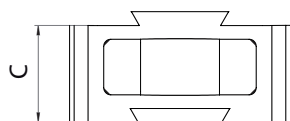
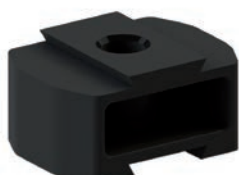
BÆRING FREMSTILLET AF TECHNOPOLYMER MED M6 MØTRIK



90815

D	A	B	C	Pakke str.
20	15	35,5	26	5
25	17	39,5	26	5
32	20	44,5	40	5
40	24,5	53,5	40	5
50	30	62	54	5
63	36	73,5	54	5

AFSTANDSKLODS TIL ART. 90815



90817

C	Pakke str.
14	5



ø20



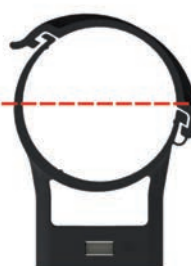
ø25



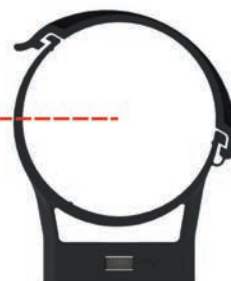
ø32



ø40

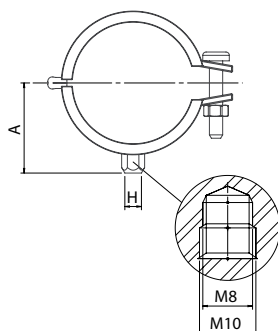


ø50



ø63

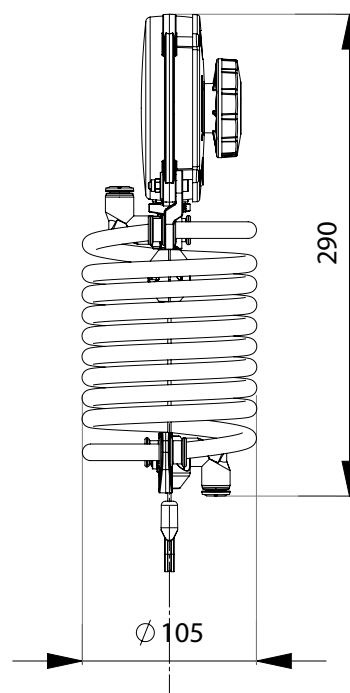
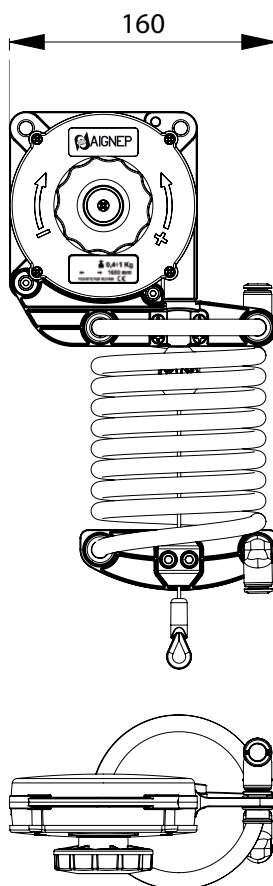
BÆRING MED GUMMIINDLÆG



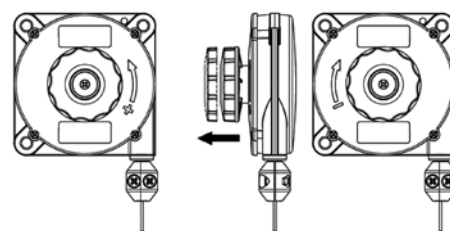
90820

D	H	A	Pakke str.
20	M8 / M10	28,5	1
25	M8 / M10	31	1
32	M8 / M10	34,5	1
40	M8 / M10	39,5	1
50	M8 / M10	44	1
63	M8 / M10	51	1
80	M8 / M10	71	1
110	M8 / M10	81,5	1

BALANCEVÆGT



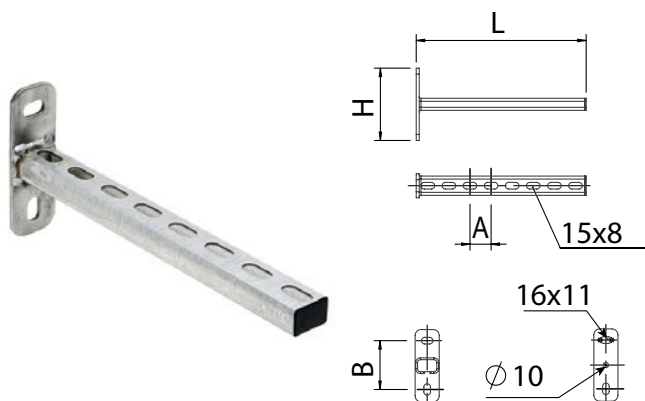
JUSTERBAR LAST/VÆGT



90826

Artikel	90826-1	90826-2	90826-3
Kapacitet kg	0,4-1	1-2	2-3
Rustfri wire	Ø 2 mm	Ø 2 mm	Ø 2 mm
Max. længde	1600 mm	1600 mm	1600 mm
Slange PA12	Ø INT. 8 mm (5/16") Ø EXT. 10 mm	Ø INT. 8 mm (5/16") Ø EXT. 10 mm	Ø INT. 8 mm (5/16") Ø EXT. 10 mm
Max. tryk	10 bar (1Mpa)	10 bar (1Mpa)	10 bar (1Mpa)
Temperatur	-20°/+80° C	-20°/+80° C	-20°/+80° C
Fitting	Push-in Fittings Ø 10	Push-in Fittings Ø 10	Push-in Fittings Ø 10
Tilslutningslange	1 mt	1 mt	1 mt
Luft	Ja	Ja	Ja
Pakke	1	1	1

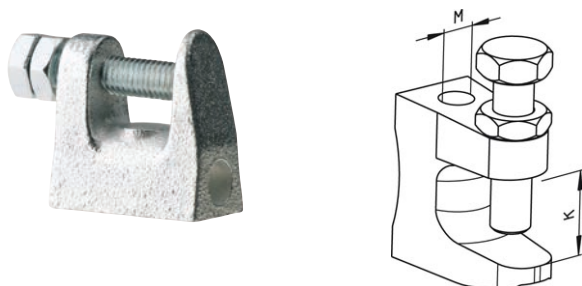
SKINNEKONSOL



OPH127

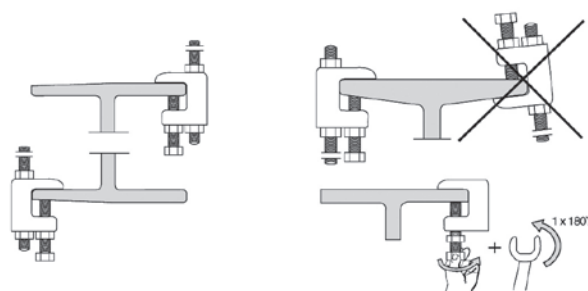
L	A	B	H	Pakke str.
300	25	70	100	1
320	25	70	100	1
750	25	70	100	1
2000	25	70	100	1

TCS CLAMS



OPH116

M	K	Pakke str.
M8 - M10	24	1
M10 - M10	24	1



RØRSKÆRER

90870

	Pakke str.
20 - 63	1
50 - 110	1



RØRREIFER

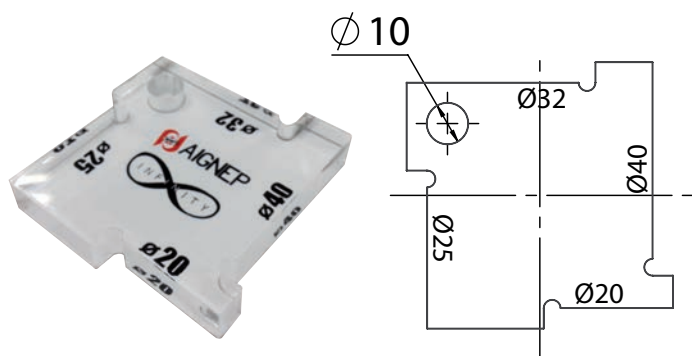
VÆRK

Varenr.

VÆRK113835	til boremaskine	10-54 mm
VÆRK113830		10-54 mm



OPMÆRKNINGSVÆRKTØJ



90885

Ø	Pakke str.
20 - 25 - 32 - 40	1

DEMOKASSE

VAL01

	Pakke str.
VAL01	1



VÆRKTØJSKASSE

VAL03

	Pakke str.
VAL03	1



LABEL



1200

	Pakke str.
VACCUM	1
NITROGEN	1
ARGON	1
ÅNDEDRÆTSLUFT	1
TRYKLUF	1
CORGON 18	1
MISON 2	1

Andre tekster tilbydes

TESTRESULTATER

Produkt:

Rør i kalibreret aluminium.

Lynfittings af messing med klemme spændeskive af stål og technopolymer dele med pakning af NBR.

Test: Testtryk 1,5 gange større end det angivne maksimum.

Diameter fittings og rør	Luftmodstand på 22,5 bar (1,5 PN) per 15. minut	Luftmodstand på 0,5 bar per 15. minut
DN 20 DN 25 DN 32 DN 40 DN 50 DN 63 (alu) DN 80 (alu) DN110 (alu)	*Ingen synlig lækage	*Ingen synlig lækage

Test: Sprængningstryk

Diameter fittings og rør	Hydraulisk tryk for brist
DN 20 DN 25 DN 32 DN 40 DN 50 DN 63 (alu) DN 80 (alu) DN 110 (alu)	115 bar, rør er deformeret 75 bar, rør er deformeret 78 bar, rør er deformeret 75 bar, rør er deformeret 58 bar, rør er deformeret 58 bar, rør er deformeret 64 bar, rør er deformeret 36 bar, rør er deformeret

TESTRESULTATER

Test: Konstant trækspænding i overensstemmelse med Norm UNI-EN 1254-2:2000 paragraf 5.5.

Diameter fittings og rør	Styrken af tryk (N)	Unthreading af rør (mm)	Modstand ved 6 bar
DN 20	1500	0,9	*Ingen synlig lækage
DN 25	1500	0,4	
DN 32	2000	0,4	
DN 40	2000	0	
DN 50	2000	0	
DN 63 (alu)	2500	0	
DN 80 (alu)	2500	0,3	
DN 110 (alu)	2500	0,49	

Test: Modstand ved indre lufttryk og bøjningstryk i overensstemmelse med Norm UNI-EN 1254-2:2000 punkt 5.6.

Diameter fittings og rør	Styrken af tryk (N)	Pneumatic tryk	Modstand og pneumatiske udholdenhed
DN 20	1800	10	*Ingen synlig lækage
DN 25	1800	10	
DN 32	1800	10	
DN 40	2400	10	
DN 50	2700	10	
DN 63 (alu)	3000	6	
DN 80 (alu)	3000	6	
DN 110 (alu)	3000	6	

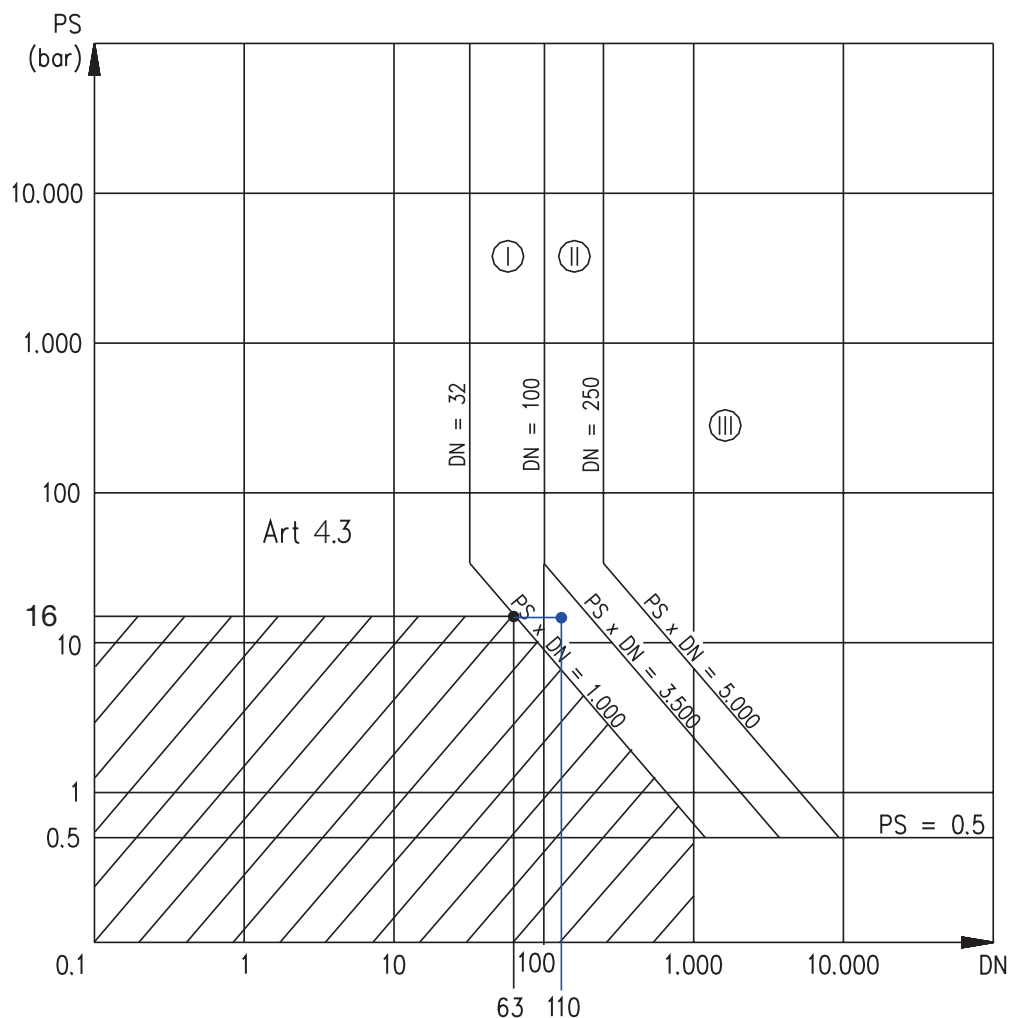
Certifikatet er tilgængelig ved forespørgsel.

CONFORMITY DECLARATION FOR THE DISTRIBUTION OF COMPRESSED-AIR

We declare that the system used with pressure $0.99 \div 16$ bar and temperature $-20^{\circ}\text{C} \div 80^{\circ}\text{C}$ with directive **2014/68/UE (PED: Pressure Equipment Directive)**.

Considering the internal diameter for DN63 and max pressure 16 bar, you can see on the graphic that the intersection point $\text{PS} \times \text{DN} = 16 \times 59 = 944$ is on the left side of zone $\text{PS} \times \text{DN} = 1.000$: it means is exempt from CEE marking according to the above mentioned directive (Art.4.3). Therefore all tubes and fittings ($\varnothing 20$ - $\varnothing 25$ - $\varnothing 32$ - $\varnothing 40$ - $\varnothing 50$ - $\varnothing 63$) do not require any CEE marking.

Considering the internal diameter for DN80, DN110 and maximum pressure of 16 bar, the intersection point ($\text{PS} \times \text{DN} = 16 \times 76 = 1216$ for DN80) and ($\text{PS} \times \text{DN} = 16 \times 105 = 1680$ for DN110) in the chart above, is in the area called "CATEGORIA I". According to Directive 2014/68/UE this area has a conformity evaluation made at factory.





ISTITUTO GIORDANO S.p.A.

SPECIALISTI IN RICERCA E CERTIFICAZIONE DAL 1959

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R.E.A. c/o C.C.I.A.A. (RN) 156766
Registro Imprese Rimini n. 00549540409
Cap. Soc. € 516.000.00 i.v.

RICONOSCIMENTI UFFICIALI:

- MINISTERO LAVORI PUBBLICI: Legge 1985/71 con D.M. 27/11/82 n. 329/13 "Prove sui materiali da costruzione"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 09/11/99 "Certificazione CE per la unità da diporto"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 31/10/91 "Certificazione CEE delle emissioni sonore di macchine da cantiere"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.L. 27/01/92 n. 15 "Certificazione CEE delle emissioni sonore di macchine di movimento terra"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 08/07/93 "Certificazione CEE concernente la sicurezza dei giocattoli"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 33/07/97 "Certificazione ad attestati di conformità CEE per il rendimento delle caldaie ad acqua calda alimentate con combustibili liquidi o gassosi"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: Nota n. 75790 del 15/12/98 "Certificazione CEE per gli apparecchi a gas"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO e MINISTERO LAVORO E PREVIDENZA SOCIALE: D.M. 09/07/90 "Certificazione CEE in materia di recipienti semplici a pressione"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO e MINISTERO LAVORO E PREVIDENZA SOCIALE: D.M. 04/06/94 "Certificazione CEE delle macchine"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: "Incidenti di verifica della sicurezza e conformità dei prodotti nell'ambito della sorveglianza sul mercato e tutela dei consumatori"
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 02/04/98 "Riassunto di attestazioni di conformità delle caratteristiche e prestazioni energetiche dei componenti degli edifici e degli impianti"
- MINISTERO INTERNO: Legge 818/84 e D.M. 26/03/85 con autorizzazione del 21/03/85 "Prove di reazione al fuoco secondo D.M. 26/06/84"
- MINISTERO INTERNO: Legge 818/84 e D.M. 26/03/85 con autorizzazione del 10/07/85 "Prove di resistenza al fuoco secondo Circolare n. 91 del 14/09/81"
- MINISTERO INTERNO: Legge 818/84 e D.M. 26/03/85 con autorizzazione del 03/07/82 "Prove di resistenza al fuoco secondo Circolare n. 7 del 06/04/81 e norma CNVVF/ICI UNI 9729"
- MINISTERO INTERNO: Legge 818/84 e D.M. 26/03/85 con autorizzazione del 12/04/88 "Prove su esemplari d'incendio portatili secondo D.M. 26/03/85"
- MURST (MINISTERO UNIVERSITÀ E RICERCA SCIENTIFICA E TECNOLOGICA): Legge 46/82 con D.M. 05/10/85 "Istruzione nell'uso dei laboratori autorizzati a svolgere ricerche di carattere applicativo a favore delle piccole e medie industrie"
- MINISTERO PUBBLICA ISTRUZIONE: Protocollo n. 116 del 27/09/87 "Norme allo Schedario Anagrafe Nazionale delle iscrizioni con codice N. 8049073V"
- SINCERT (Accreditamento Organismi Certificazione): Accreditamento n. 0574 del 19/12/00 "Organismo di certificazione di sistemi qualità"
- SINAI (Sistema Nazionale per l'Accreditamento di Laboratori): Accreditamento: 001 del 14/11/91
- SIT (Servizio di Taratura in Italia): Accreditamento n. 20 "Centro SIT di taratura per grandezze termometriche ed elettriche"
- ICM (Istituto di Certificazione Industriale per la Meccanica): "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto"
- IMD (Istituto per il Marchio Qualità): "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto per carne fumata"
- UNCSAAL (Unione Nazionale Consulenti Serramenti Aluminio Acciai Leghe): Riconoscimento del 29/03/85 "Laboratorio per le prove di certificazione UNCSAAL: su serramenti a facciate continue"
- UNI (Ente Nazionale Italiano di Unificazione - Settore Certificazione): "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto per termosifonetti a legna con fluido a circolazione forzata e serramenti esterni"

PARTECIPAZIONI ASSOCIATIVE:

- AIA: Associazione Italiana di Acustica
- AICARR: Associazione Italiana Condizionamento dell'Aria Riscaldamento Refrigerazione
- AIQD: Associazione Italiana per la Qualità
- AIPND: Associazione Italiana Prove non Distruttive
- ALF: Associazioni Laboratori Italia Fuoco
- ALPI: Associazione Laboratori di Prova Indipendenti
- ASHRAE: American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc.
- ASSINDUSTRIA: Associazione degli industriali di Rimini
- ASTM: American Society for Testing and Materials
- ATIG: Associazione Tecnica Italiana dei Gas
- CTE: Collegio dei Tecnici della Industrializzazione Edilizia
- CTT: Comitato Termotecnico Italiano
- EAPMA: European Association of Research Managers and Administrators
- EARTO: European Association of Research and Technology Organization
- EGOLF: European Group of Official Laboratories for Fire Testing
- UNI: Ente Nazionale Italiano di Unificazione

CLAUSOLE

Il presente documento si riferisce solamente al campione o materiale sottoposto a prova.
Il presente documento non può essere riprodotto parzialmente, salvo approvazione scritta del laboratorio

ABRIDGED TEST REPORT No. 189470

(Refers to test report No. 189076 issued by this Institute on 26/10/2004)

Place and date of issue: Bellaria, 08/11/2004

Customer: AIGNEP S.p.A. - Via Industriale n. 1 - 25070 BIONE (BS)

Date test requested: 13/09/2004

Order number and date: 26665, 14/09/2004

Date specimen received: 13/09/2004

Date test effected: from 11/10/2004 to 15/10/2004

Purpose of test: Testing copper-alloy quick-action couplings for use with aluminium tubes

Test site: Istituto Giordano S.p.A. - Blocco 1 - Via Rossini, 2 - 47814 Bellaria (RN)

Specimen origin: supplied by Customer

Identification of specimen received: No. 2004/1522

Description of specimen

The test specimens are known as "Raccordi ad innesto rapido per tubazioni in alluminio Serie 90.000".

Result of test

The tests listed below, agreed with the Customer and, in the absence of specific standards, conducted in accordance with standard UNI EN 1254-2: 2000, gave the following results:

- Leaktightness under internal pneumatic pressure: No visible signs of leakage;
- bursting strength test: DN 20: 115 bar, DN 25: 75 bar, DN 32: 78 bar, DN 40: 75 bar, DN 50: 58 bar and DN 63: 62 bar;
- resistance to pull-out: maximum axial movement 0,9 mm and no visible leakage in the subsequent pneumatic pressure test;
- leaktightness under internal pneumatic pressure whilst subjected to bending: no visible signs of leakage or damage.

As regards the description of the specimen, normative references, test methods, test equipment, test results and everything else necessary for the identification of the work carried out, please see Test Report No. 189076 issued by this Institute on 26/10/2004.

Test Technician (Per. Ind. Walter Frattini) Manager, Applied Physics Laboratory
Dott. Ing. Vincenzo Iommi
Chairman or Managing Director
Dott. Ing. Vincenzo Iommi

Comp. AV
Revis. *[Signature]*

This abridged report consists of 1 sheet
This document is the English translation of the abridged test report No. 189470 of 08/11/2004 issued in Italian.
Date of translation: 29/11/2004.

Sheet
1 of 1



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Cod. Fisc./Part. IVA: 00 549 540 409 - Cap. Soc. € 1.500.000 i.v.
R.E.A. c/o C.C.I.A.A. (RN) 156766
Registro Imprese di Rimini n. 00 549 540 409

ABRIDGED TEST REPORT No. 317262

(Refers to test report No. 316851 issued by Istituto Giordano on 25/06/2014)

Place and date of issue: Bellaria-Igea Marina - Italy, 11/07/2014

Customer: AIGNEP S.p.A. - Via Don Giuseppe Bazzoli, 34 - 25070 BIONE (BS) - Italy

Date test requested: 20/03/2014

Order number and date: 62619, 24/03/2014

Date sample received: 23/04/2014

Test date: from 05/06/2014 to 24/06/2014

Purpose of test: testing aluminium-alloy quick-action couplings for use with aluminium tubes

Test site: Istituto Giordano S.p.A. - Blocco 1 - Via Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italy

Sample origin: sampled and supplied by the Customer

Identification of sample received: No. 2014/0843

Sample name and description*

The test samples are called "Series 90.000, DN80 quick-action couplings for use with aluminium tubes".

They essentially consist of:

- surface-treated aluminium nut;
- NBR O-ring;
- surface-treated aluminium body;
- safety ring made from engineering resin;
- AISI 301 stainless-steel collet;
- tube guide ring made from engineering resin;
- galvanised-steel self-locking nut;
- galvanised-steel hexagon socket head cap screw.

Customer's declared maximum operating pressure is 16 bar.

Test result

The following tests were carried out on the Customer-supplied sample with results as given hereafter:

- leaktightness under internal pneumatic positive (24 and 0,5 bar)/negative (0,9 bar) pressure

TEST RESULT: PASS;

- bursting strength test

TEST RESULT: slight leakage from plug of one of the fittings at a pressure of 64 bar (PASS);

- resistance to pull-out

TEST RESULT: PASS;

- leaktightness under internal hydrostatic pressure whilst subjected to bending

TEST RESULT: PASS.

As regards sample and test photos, normative references, test methods, test equipment, detailed test results and everything else necessary for the identification of the work carried out, please see Test Report No. 316851 issued by Istituto Giordano on 25/06/2014.

(*) according to that stated by the Customer.

Test Technician:
Dott. Ing. Antonietta Serra

Head of Applied Physics Laboratory:
Dott. Ing. Vincenzo Iommi

Chief Executive Officer
(Dott. Arch. Sara Lorenza Giordano)

Firmato digitalmente da SARA LORENZA GIORDANO

The original of this document consists of an electronic document with a digital signature affixed pursuant to DPR (Presidential Decree) 513/97.

Comp. AV
Revis. AS

This abridged report consists of 1 sheets.
This document is the English translation of the abridged report No. 317262 dated 11/07/2014 issued in Italian; in case of dispute the only valid version is the Italian one. Date of translation: 06/06/2017.

Sheet
1 of 1

CLAUSES: This document relates only to the sample or material tested and shall not be reproduced except in full without Istituto Giordano's written approval.



**ISTITUTO
GIORDANO**



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R.E.A. c/o C.C.I.A.A. (RN) 156766
Registro Imprese di Rimini n. 00 549 540 409
Organismo Europeo notificato n. 0407
Accreditamenti: SINCERT (057A e 082B) - SIT (20)

RICONOSCIMENTI UFFICIALI MINISTERI ITALIANI:

- Legge 1086/71 con D.M. 27/11/82 n. 22913 "Prove sui materiali da costruzione".
- D.M. 09/11/99 "Certificazione CE per le unità da diporto".
- D.M. 04/06/94 "Certificazione CEE sulle macchine".
- Notifica n. 757890 del 15/12/98 "Certificazione CEE per gli apparecchi a gas".
- D.M. 09/07/93 "Certificazione CEE in materia di recipienti semplici a pressione".
- D.M. 08/07/93 "Certificazione CEE concernente la sicurezza dei giocattoli".
- Incarichi di verifica della sicurezza e conformità dei prodotti nell'ambito della sorveglianza sul mercato e tutela del consumatore.
- D.M. 02/04/98 "Rilascio di attestazioni di conformità delle caratteristiche e prestazioni energetiche dei componenti degli edifici e degli impianti".
- Legge 81/84 e D.M. 26/03/85 con autorizzazione del 21/03/86 "Prove di resistenza al fuoco secondo Circolare n. 7 del 02/04/91 norma CNVVR/DCI UNI 9723".
- Legge 81/84 e D.M. 26/03/85 con autorizzazione del 10/07/86 "Prove di resistenza al fuoco secondo Circolare n. 91 del 14/09/81".
- Legge 81/84 e D.M. 26/03/85 con autorizzazione del 03/07/92 "Prove di resistenza al fuoco secondo Circolare n. 7 del 02/04/91 norma CNVVR/DCI UNI 9723".
- Legge 81/84 e D.M. 26/03/85 con autorizzazione del 12/04/88 "Prove su estintori d'incendio portatili secondo D.M. 20/12/82".
- Legge 46/82 con D.M. 09/10/85 "Immissione nell'albo dei laboratori autorizzati a svolgere ricerche di carattere applicativo a favore delle piccole e medie industrie".
- Protocollo n. 116 del 27/03/87 "Iscrizione allo Schedario Anagrafe Nazionale delle ricerche con codice N.E0490Y9Y".
- Decreto 24/05/02 "Certificazione CE di rispondenza della conformità delle attrezzature a pressione".
- Decreto 14/02/02 "Certificazione CE di conformità in materia di emissione acustica ambientale per macchine e attrezzature".
- Decreto 05/02/03 "Esecuzione delle procedure di valutazione della conformità dell'equipaggiamento marittimo".
- G.U.R.I. n. 236 del 07/10/04 "Certificazione CE sugli ascensori".
- Notifica per le attività di attestazione della conformità alle norme armonizzate della Direttiva 89/106 sui prodotti da costruzione.

ENTI TERZI:

- SINCERT: Accreditation n. 057A del 19/12/00 "Organismo di certificazione di sistemi di gestione per la qualità" n. 0825 del 12/04/06 "Organismo di certificazione di prodotto".
- SIT: Centro multisede n. 20 (Bellaria - Pomezia) per grandezze termometriche ed elettriche.
- ICIM: "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto".
- IMQ: "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto per carne fumate".
- UNCSAAL: Riconoscimento del 26/03/85 "Laboratorio per le prove di certificazione UNCSAAL su serratimenti e facciate continue".
- IMQ-UNI: "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto per termocamminetti a legna con fluido a circolazione forzata".
- CSI-UNI: "Prove di laboratorio in ambito degli schemi di Certificazione di Prodotto per serratimenti esterni".
- KEYMARK per isolanti termici: "Misure di conduttività termica per materiali isolanti".
- IFT: "Prove di laboratorio e sorveglianza in azienda nell'ambito degli schemi di Certificazione di Prodotto per porte, finestre, chiusure oscuranti (antifurto) e serramenti".
- EFSG: "Prove di laboratorio su cassette e altri mezzi di custodia".
- AENOR: "Valutazione della conformità ai fini della marcatura CE per alcuni prodotti inerti alla direttiva prodotti da costruzione".
- VTT-Finlandia: "Valutazione della conformità ai fini della marcatura CE per alcuni prodotti inerti alla direttiva prodotti da costruzione".
- C.C.I.A.A. Rimini: 28/01/04 "Verifica periodica dell'affidabilità metrologica di strumenti metrici in materia di commercio".

PARTECIPAZIONI ASSOCIATIVE:

- AIA: Associazione Italiana di Acustica.
- AICARR: Associazione Italiana Condizionamento dell'Aria Riscaldamento Refrigerazione.
- AIDO: Associazione Italiana per la Qualità.
- AIPI: Associazione Italiana Prove non Distruttive.
- ALIP: Associazione Laboratori Italiani Fuoco.
- ALPI: Associazione Laboratori di Prova Indipendenti.
- ASHRAE: American Society of Heating, Refrigerating and AirConditioning Engineers Inc.
- ASTM: American Society for Testing and Materials.
- ATIG: Associazione Tecnica Italiana del Gas.
- CTE: Collegio dei Tecnici della Industrializzazione Edilizia.
- CTT: Comitato Termotecnico Italiano.
- EARM: European Association of Research Managers and Administrators.
- EARTO: European Association of Research and Technology Organisation.
- EGOLF: European Group of Official Laboratories for Fire Testing.
- UNI: Ente Nazionale Italiano di Unificazione.

CLAUSOLE:

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ABRIDGED TEST REPORT No. 238763

(Refers to test report No. 236272 issued by this Institute on 07/02/2008)

Place and date of issue: Bellaria-Igea Marina - Italy, 07/04/2008

Customer: AIGNEP S.p.A. - Via Industriale, 1 - 25070 BIONE (BS) - Italy

Date test requested: 09/11/2007

Order number and date: 39092, 09/11/2007

Date specimen received: 20/11/2007

Date test effected: from 20/12/2007 to 08/01/2008

Purpose of test: Testing copper-alloy quick-action couplings for use with aluminium tubes

Test site: Istituto Giordano S.p.A. - Blocco 1 - Via Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italy

Specimen origin: sampled and supplied by Customer

Identification of specimen received: No. 2007/2505

Description of specimen

The test specimens are known as "Raccordi ad innesto rapido per tubazioni in alluminio Serie 90.000" ("Copper-alloy quick-action couplings for use with aluminium tubes Series 90.000"), DN 110.

Result of test

The tests listed below, agreed with the Customer and, in the absence of specific standards, conducted in accordance with standard UNI EN 1254-2:2000, gave the following results:

- leaktightness under internal pneumatic pressure: No visible signs of leakage;
- bursting strength test: 51 bar;
- resistance to pull-out: maximum axial movement 0,49 mm and no visible leakage in the subsequent pneumatic pressure test;
- leaktightness under internal hydraulic pressure whilst subjected to bending: no visible signs of leakage or damage.

As regards the description of the specimen, normative references, test methods, test equipment, test results and everything else necessary for the identification of the work carried out, please see Test Report No. 236272 issued by this Institute on 07/02/2008.

Test Technician
(Per. Ind. Walter Fratti)

Manager, Applied Physics
Laboratory
(Dott. Ing. Vincenzo Iommi)

Chairman or
Managing Director
Dott. Ing. Vincenzo Iommi

Comp. AV
Revis.

This abridged report consists of 1 sheet
This document is the English translation of the abridged test report No. 238763 of 07/04/2008 issued in Italian.
Date of translation: 07/04/2008.

Sheet
1 of 1



DICHIARAZIONE DI CONFORMITÀ
DECLARATION OF CONFORMITY

In accordo con la Direttiva **2014/68/UE** del Parlamento Europeo e del Consiglio del 15 Maggio 2014
*In accordance with the Directive **2014/68/EU** of the European Parliament and of the Council of 15 May 2014*

Ragione sociale
Manufacturer

AIGNEP S.p.A.

Via Don G. Bazzoli 34, 25070 Bione (BS) - ITALY

In base alla Direttiva **2014/68/UE (PED)**

According to the Directive 2014/68/EU (PED)

DICHIARA CHE / DECLARE THAT

Relativamente ai propri prodotti presenti a catalogo quanto segue:

- 1) I prodotti della serie attuatori pneumatici sono esclusi dal campo di applicazione della direttiva in base all'articolo 1, punto 2, paragrafo j) ii)
- 2) I prodotti della serie Infinity con diametro da 80 a 110 mm e PN MAX 16 bar sono classificati nella categoria PED I secondo la procedura di valutazione descritta nel modulo A che prevede la marcatura CE ed il controllo interno della fabbricazione in accordo alle procedure del sistema qualità certificato ISO 9001.
- 3) Tutti gli altri prodotti sono classificati secondo l'articolo 4 comma 3 e sono progettati e fabbricati secondo una corretta prassi costruttiva, tali prodotti non devono recare la marcatura CE.

Relatively to the product of its catalogue, as follow:

- 1) *The products of the pneumatic actuator series are excluded from the field of application of the directive according to the article 1, point 2 paragraph j) ii)*
- 2) *The product of the Infinity series with diameter from 80 to 110 mm and PN MAX 16 bar are classified in the category PED I according to the evaluation procedure described in the module A which provide the CE marking and the internal control of the manufacturing in accordance with the procedures of the quality system certificate IS 9001.*
- 3) *Any other products are classified according to the article 4 subsection 3 and they are projected and manufactured according a correct manufacturing practice, on these products the CE marking is not required.*

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Bione (BS)

05/12/2017

Graziano Bugatti

Luogo / Place

Data / Date

Amministratore / General Manager



Bione (BS), 14/09/2016

Gentile Cliente,

In riferimento alla Vostra richiesta, dichiariamo che i prodotti a catalogo Aignep SpA sono realizzati con materia prima e processi produttivi **"free of silicon"**.

Cordiali Saluti,

/

Dear Customer,

In reference to your request, we declare that the product in the Aignep SpA catalog are made with raw materials and processes **"free of silicon"**.

Best Regards,

General Manager

Bugatti Graziano

AIGNEP S.P.A. – 25070 BIONE (Brescia) ITALY – Via Don G. Bazzoli, 34 – Tel. +39 0365/896626 - Fax. +39 0365/896561
Società Unipersonale del Gruppo La San Marco di Francesco Bugatti & C. S.a.p.a.

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s_pq01_06_master_lettera Rev. 01 del 09/09

BEKRÆFTELSE FOR POLYESTER PULVERMALING FORETAGET PÅ ALUMINIUMSRØR AF MÆRKET INFINITY

Forbehandling

Forbehandling: Det garanterer forankringen af malingen på røret og forhindrer korrosion og oxidering af de ikke-lakerede dele ifølge **UNI 9921 - DIN 50939 - ASTM D 1730 - MIL C 5541**.

Maling

Pulvermaling af ikke giftige stoffer. Certificeret QUALICOT og GSB ifølge **UNI 9983 - BS 6496 - AAMA 603-605**.

Den ovenfor nævnte behandling modvirker korrosion på udvendige dele.

Indvendige dele er behandlet med krom.

BRANDKLASSIFIKATION



Emne

Brandklassifikationen er udført og testet i henhold til **UNI EN 13501-1:2005**.

Beskrivelse af produktet

Pulvet lakeret aluminiumsrør 90000-serien. Klassifikation blev bestemt ved analyse af malingens brutto forbrændingsvarme, kombineret med test resultater som er angivet i **UNI EN 13823**.

Testresultat

Produktet er testet og opfylder reglerne for **brandklassifikation A2 - d1 - d0**.



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