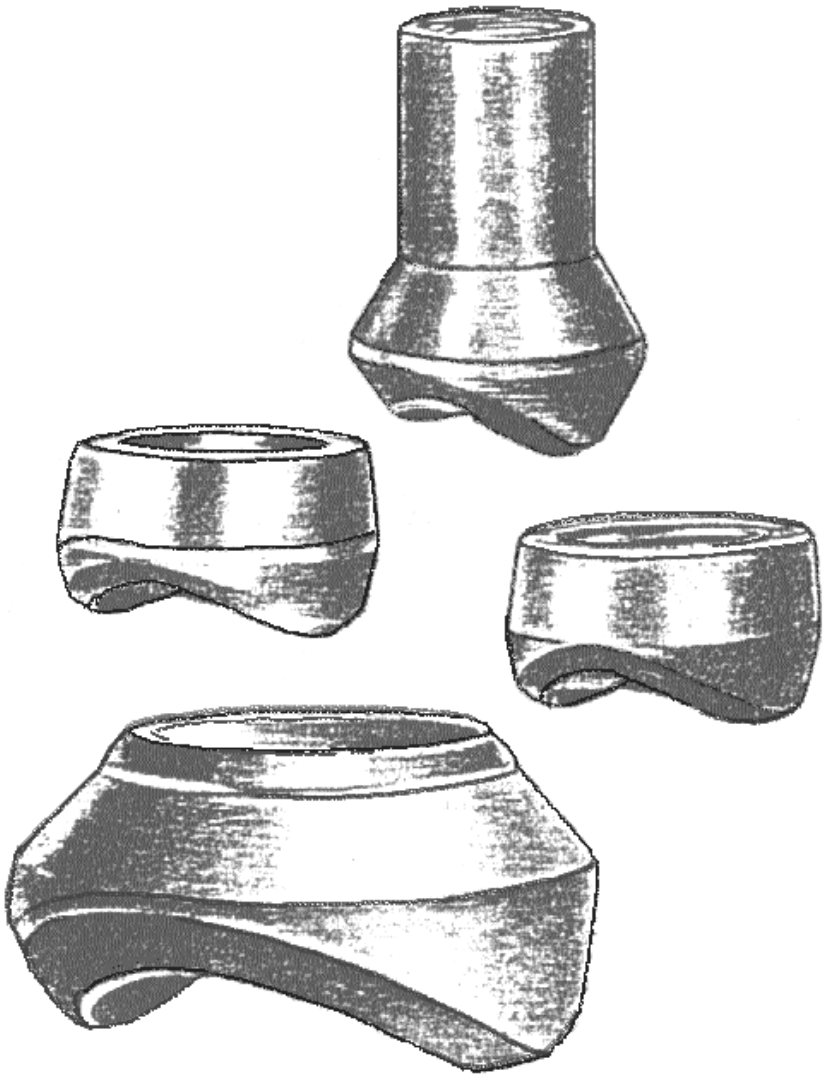
cobalch
pipeline accessories

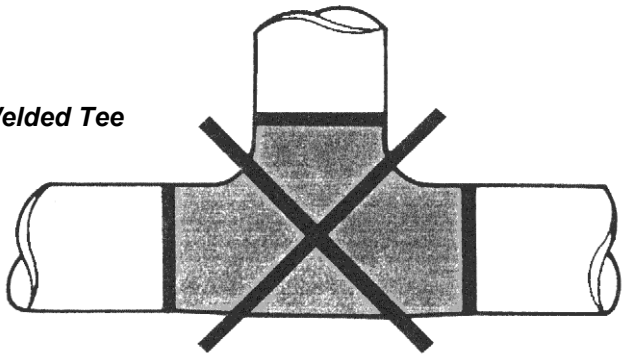
O-LETS
THERMAL OUTLET



Cobalch ApS ● Hejreskovvej 24 ● DK-3490 Kvistgård ● Denmark ● Tel.: +45 4582 0533
Danske Bank: 1471 4130088031 ● IBAN - DKK: DK3130004130088031 - EUR: DK4730004130088228 ● Swift code: DABADKKK
CVR nr. DK70614316 ● cobalch@cobalch.com ● www.cobalch.com

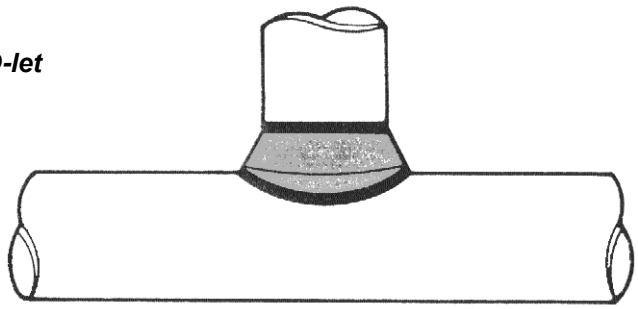
Where and why?
- How to use welded branches

Welded Tee



1. Everywhere where welded branches are recommended

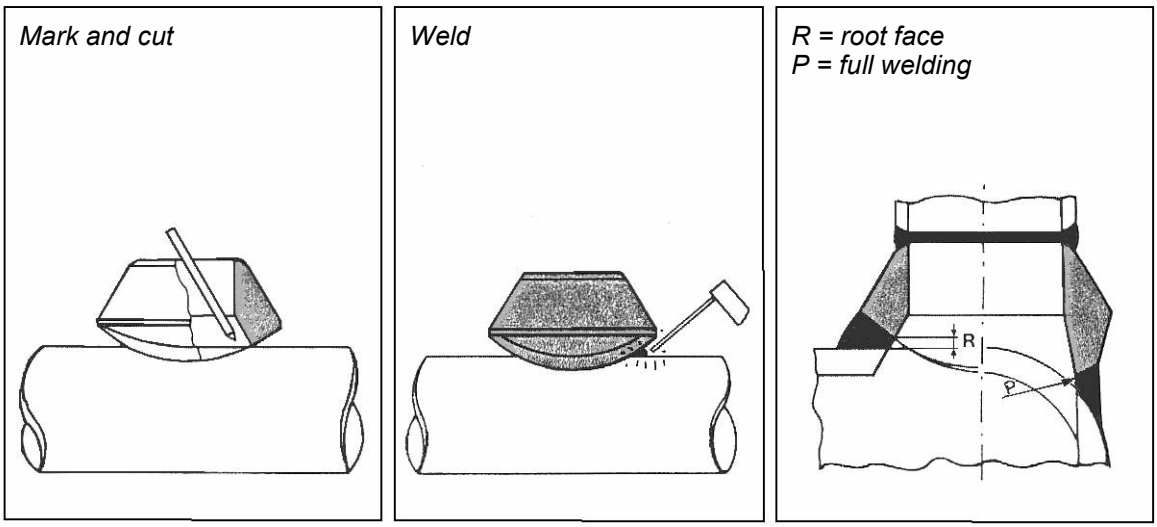
O-let



2. O-lets replace the welded Tee coasing a reduction of material and labour cost from 40 - 80%

... All dimensions are according to ANSI B16.9, ANSI B31.1 and ANSI B31.3

O-lets are ready for welding



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WELDOLETS, THREDOLETS AND SOCKOLETS
Run pipe dimensions

MEGALET BW, SW, NPT - RUN PIPE SIZE RANGE

Schedule STD, XS, 40S, 80S - Class 3000

BRANCH		RUN PIPE		BRANCH		RUN PIPE	
NPS (DN)	WT	NPS (DN) min	NPS (DN) max	NPS (DN)	WT	NPS (DN) min	NPS (DN) max
1/4 (8)	STD XS STD/XS	3/8 (10)	80 (2000)	8 (200)	STD XS STD/XS	10 (250)	
3/8 (10)	STD XS STD/XS	1/2 (15)	80 (2000)			12 (300)	
1/2 (15)	STD XS STD/XS	3/4 (20)	80 (2000)			14 (350)	
3/4 (20)	STD XS STD/XS	1 (25)	2-1/2 (65)		STD	16 (400)	
		3 (80)	80 (2000)			18 (450)	20 (500)
1 (25)	STD XS STD/XS	1-1/4 (32)	2-1/2 (65)			22 (550)	26 (650)
		3 (80)	80 (2000)			28 (700)	34 (850)
1-1/4 (32)	STD XS STD/XS	1-1/2 (40)	2 (50)			36 (900)	50 (1250)
		2-1/2 (65)	6 (150)			52 (1300)	72 (1800)
		8 (200)	80 (2000)		XS STD/XS	16 (400)	18 (450)
1-1/2 (40)	STD XS STD/XS	2 (50)	2-1/2 (65)			20 (500)	22 (550)
		3 (80)	6 (150)			24 (600)	30 (750)
		8 (200)	80 (2000)			32 (800)	44 (1100)
2 (50)	STD XS STD/XS	2-1/2 (65)	3 (80)			46 (1150)	72 (1800)
		3-1/2 (90)	6 (150)	10 (250)	STD XS STD/XS	12 (300)	
		8 (200)	80 (2000)			14 (350)	
2-1/2 (65)	STD XS STD/XS	3 (80)	4 (100)			16 (400)	
		6 (150)	14 (350)			18 (450)	
		16 (400)	80 (2000)		STD	20 (500)	
3 (80)	STD XS STD/XS	3-1/2 (90)	4 (100)			22 (550)	24 (600)
		6 (150)	8 (200)			26 (650)	28 (700)
		10 (250)	24 (600)			30 (750)	34 (850)
		26 (650)	80 (2000)			36 (900)	42 (1050)
4 (100)	STD XS STD/XS	6 (150)				44 (1100)	56 (1400)
		8 (200)	10 (250)		XS STD/XS	20 (500)	22 (550)
		12 (300)	20 (500)			24 (600)	26 (650)
		22 (550)	72 (1800)			28 (700)	32 (800)
6 (150)	STD XS STD/XS	8 (200)				34 (850)	40 (1000)
		10 (250)				42 (1050)	52 (1300)
		12 (300)	14 (350)			54 (1350)	72 (1800)
		16 (400)	20 (500)				
	STD	22 (550)	30 (750)				
		32 (800)	56 (1400)				
	XS STD/XS	22 (550)	32 (800)				
		34 (850)	68 (1700)				

STD XS STD/XS = suitable for Sch.STD, XS, STD/XS

STD = suitable only for Sch.STD

XS STD/XS = suitable for Sch.XS, STD/XS

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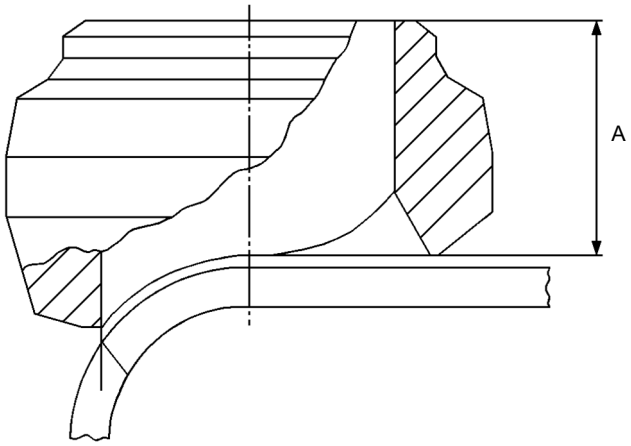
WELDOLETS
Dimensionstable
Iht. MSS-SP97



Outlet (DN)	Outlet (NPS)	A (Face of Fitting to Crotch) Standard	Extra strong
6	1/8	-	-
8	1/4	-	-
10	3/8	-	-
15	1/2	19.1	19.1
20	3/4	22.4	22.4
25	1	26.9	26.9
32	1 1/4	31.8	31.8
40	1 1/2	33.3	33.3
50	2	38.1	38.1
65	2 1/2	41.1	41.1
80	3	44.4	44.4
90	3 1/2	50.8	50.8
100	4	50.8	50.8
125	5	57.2	57.2
150	6	60.4	77.7
200	8	69.8	98.6
250	10	77.7	88.9
300	12	85.9	100.1
350	14	88.9	104.6
400	16	93.7	112.8
450	18	103.1	119.1
500	20	117.3	127.0
600	24	136.6	139.7

Tolerances: 6-20 ±0.8 mm
25-100 ±1.6 mm
125-300 ±3.2 mm
350-600 ±4.8 mm

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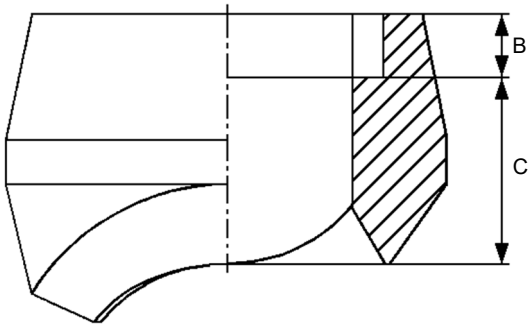
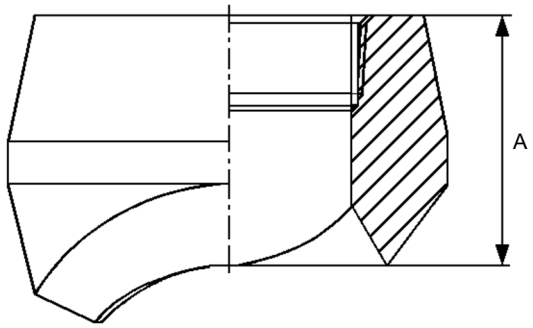
SOCKOLETS AND THREDOLETS
Dimensionstable
Iht. MSS-SP97

Sockolet



Outlet (DN)	Outlet (NPS)	B min (a)	C max	
			Class 3000	Class 6000
6	1/8	9.5	11	-
8	1/4	9.5	11	-
10	3/8	9.5	13	-
15	1/2	9.5	16	24
20	3/4	12.5	16	26
25	1	12.5	23	29
32	1 1/4	12.5	23	31
40	1 1/2	12.5	24	32
50	2	16.0	24	37

Thredolet



Outlet (DN)	Outlet (NPS)	A Nom. (Face óf fittings to crotch) Threaded	
		Class 3000	Class 6000
6	1/8	19.0	-
8	1/4	19.0	-
10	3/8	20.6	-
15	1/2	25.4	31.8
20	3/4	26.9	36.6
25	1	33.3	39.6
32	1 1/4	33.3	41.1
40	1 1/2	35.0	42.3
50	2	38.1	52.3

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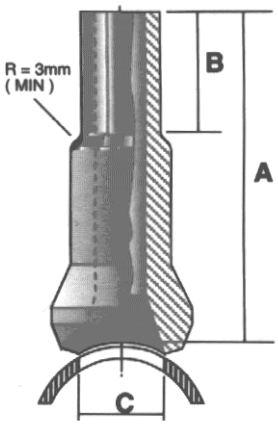
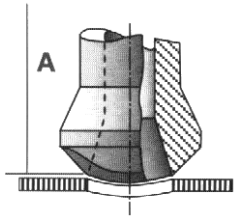
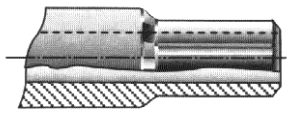
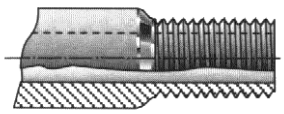
NIPOLETS, ELBOLETS AND LATROLETS
Dimensionstable



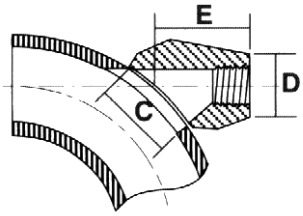


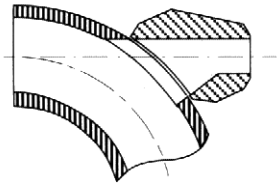


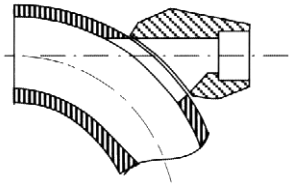


NIPOLETS					
Nominel Pipe size mm	"B" (min.) mm	Outlet dimension	A	3000 lbs C	6000 lbs C
15.00	25.00	1/2"	89.00	24.00	14.50
20.00	25.00	3/4"	89.00	30.00	19.00
25.00	30.00	1"	89.00	36.50	25.50
25.50	30.00	1 1/4"	89.00	44.50	33.40
50.00	30.00	1 1/2"	89.00	51.00	38.00
		2"	89.00	65.00	43.00

OBS
3000 lbs fittings are bored to schedule 80. 6000 lbs fittings are bored to schedule 160. Other bore diameters can be manufactured on request.

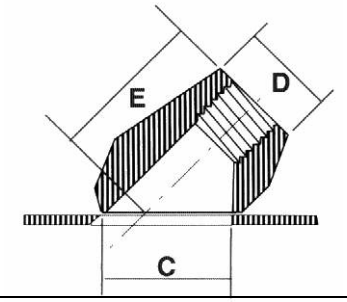


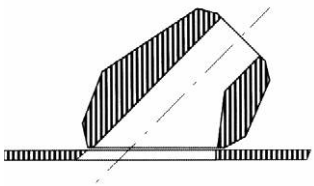


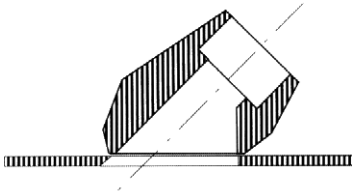


ELBOLETS								
3000 lbs threaded and socket weld - standard and XS (extra strong) butt-weld					6000 lbs threaded and socket-weld, sch. 160 and XXS			
Outlet dimension	C	D	E	Weight kg	C	D	E	Weight kg
1/2"	38.20	31.80	38.10	0.30	43.60	35.70	45.20	0.39
3/4"	43.60	35.70	45.20	0.34	54.00	45.20	52.40	0.57
1"	54.00	45.20	52.40	0.52	73.00	54.80	55.60	1.00
1 1/4"	73.00	54.80	55.60	0.86	79.40	63.50	58.80	1.77
1 1/2"	79.40	63.50	58.80	1.20	106.40	82.60	69.98	2.80
2"	106.40	82.60	69.90	2.39				

OBS
Dimensions are the same for all three fittings except the "D" dimensions for the Butt-Welding Outlet which matches the proper schedule on the branch pipe. Larger outlet sizes are available on request.







LATROLETS								
3000 lbs threaded and socket weld - standard and XS (extra strong) butt-weld					6000 lbs threaded and socket-weld, sch. 160 and XXS			
Outlet dimension	C	D	E	Weight kg	C	D	E	Weight kg
1/2"	36.50	31.80	39.70	0.30	43.60	35.70	47.60	0.39
3/4"	43.60	35.70	47.60	0.34	54.00	45.20	57.20	0.57
1"	54.00	45.20	57.20	0.52	67.50	54.80	61.90	1.00
1 1/4"	67.50	54.80	61.90	0.86	76.20	63.50	66.70	1.32
1 1/2"	79.20	63.50	66.70	1.20	104.80	82.60	81.00	2.80
2"	106.80	82.60	81.00	2.39				

OBS
Dimensions are the same for all three fittings except the "D" dimensions for the Butt-Welding Outlet which matches the proper schedule on the branch pipe. Larger outlet sizes are available on request.

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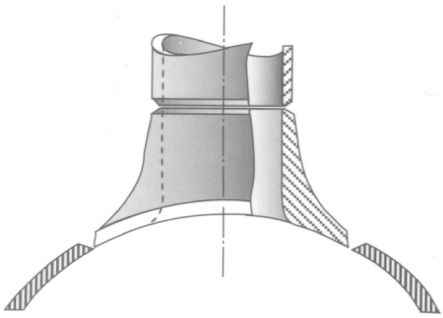
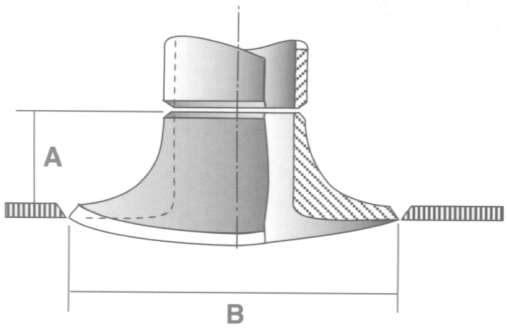
SWEEPOLETS
Dimensionstable





SWEEPOLETS			
Outlet dimension	**Run pipe**	**A**	**B**
1 1/2”	150-900	38.00	140.00
2”	150-900	38.00	140.00
3”	150-900	42.00	178.00
4”	200-900	52.00	222.00
6”	250-900	68.00	330.00
8”	300-900	76.00	381.00
10”	400-900	80.00	470.00
12”	400-900	83.00	520.00
16”	600-900	92.00	710.00
18”	600-900	114.00	787.00
20”	600-900	127.00	838.00
24”	750-900	140.00	965.00

1. Sweepolets are reinforced O-lets with low stressfactors for long lifetime. These swepolets are produced acc. International pipe- and shipsstandards. They can as well be produced after speciel requests or stressfactors.

2. Sweepolets are manufactured to comply with the latest national and international piping and pressure vessel codes.

3. Sweepoletsare available from 1 1/2” to 48” in standard and extra strong and heavier run wall thickness.

4. Materials in all kinds of carbon steel, stainless steel and high yield, as X42, X46, X56 and X60.

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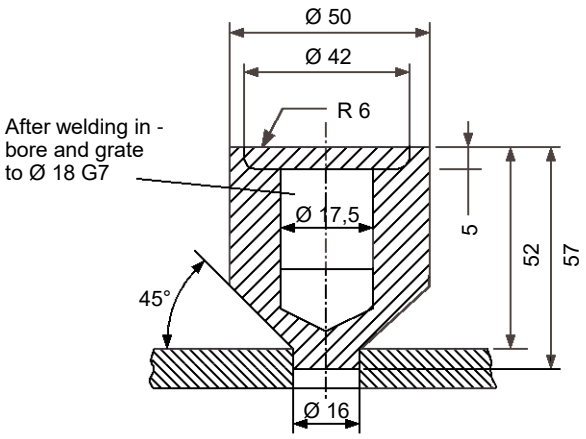
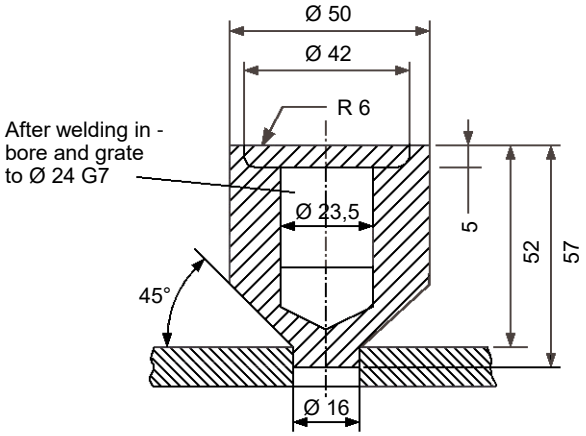
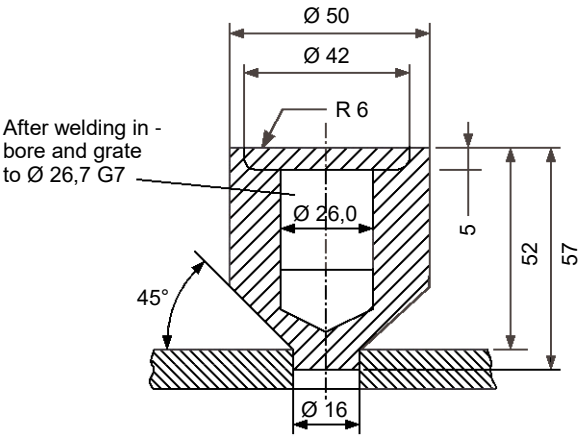
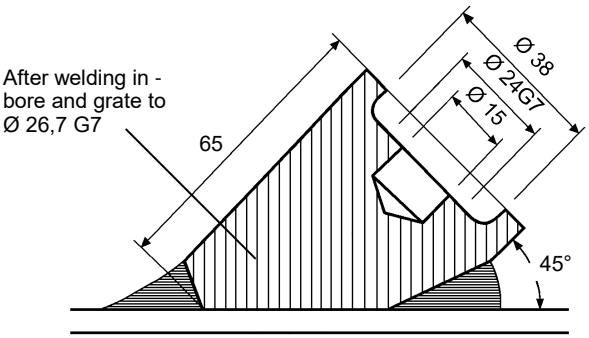
pipeline accessories

COBALCH Termo Pockets
for welding in thickness pocket



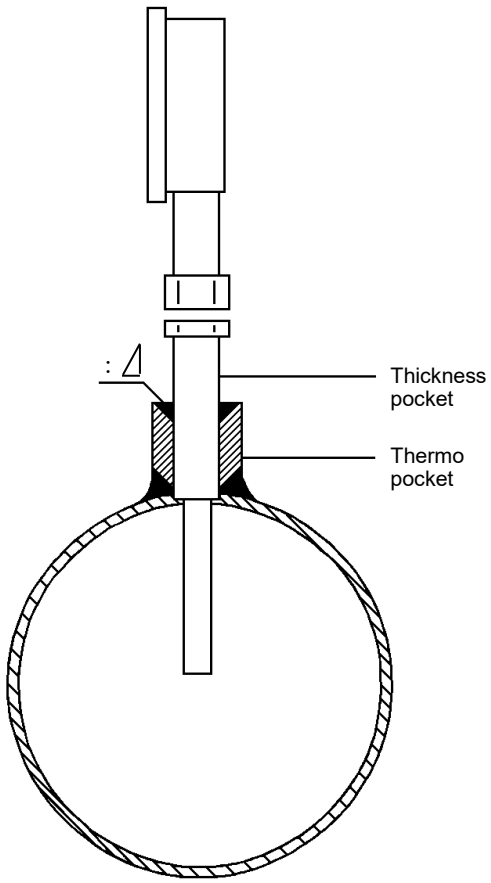






Materials	Certificate
RSt 37.2 St 52.3 15Mo3 13CrMo44	EN 10204 3.1.b with charge number on every pocket

The Thermo Pocket must be welded in before the mounting so the cuttings can be removed.



Technical modifications reserved

01-21-221

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