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FLEXIBLE PIPING

Be Flexible. Save Time.



PRODUCT CATALOG

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Flexible Corrugated Stainless-Steel Tube (US304/SUS316L)



EN ISO 10380 standard
CE Certification



- Annealing heat treatment
- Food safety grade
- No Soldering Joints
- UP to 100m per roll
- Can be cut to any length, no any waste.
- Guarantee seal
- Work pressure 17.5 bar
- Installation work much quick, easy and reliable.

Type	Part №	OD	ID	Wall	Fitting size	Coil length (meters)	Max. work pressure kgf/cm ²
DN12	GDSSCSST16025	16mm (16.8)	12mm (12.6)	0.21mm 0.25mm 0.3mm	1/2"	10/20/30.. Max.100	15/17.5
DN16	GDSSCSST20025	20mm (21.3/ 21.8)	16mm (16.8/ 17)	0.21mm 0.25mm 0.3mm 0.35mm	3/4"	10/20/30.. Max.100	15/17.5
DN20	GDSSCSST25030	25mm	20mm	0.25mm 0.3mm 0.35mm	1"	10/20/30.. Max.100	10/12
DN25	GDSSCSST32030	32mm	26mm	0.3mm 0.35mm	1¼"	10/20/30.. Max.50	8
DN32	GDSSCSST41035	40mm	32mm	0.3mm 0.35mm	1½"	10/20/30.. Max.50	8
DN40	GDSSCSST50035	50mm	40mm	0.35mm 0.4mm	2"	10/20/30	6
DN50	GDSSCSST60035	60mm	50mm	0.4mm 0.45mm	2½"	15	6

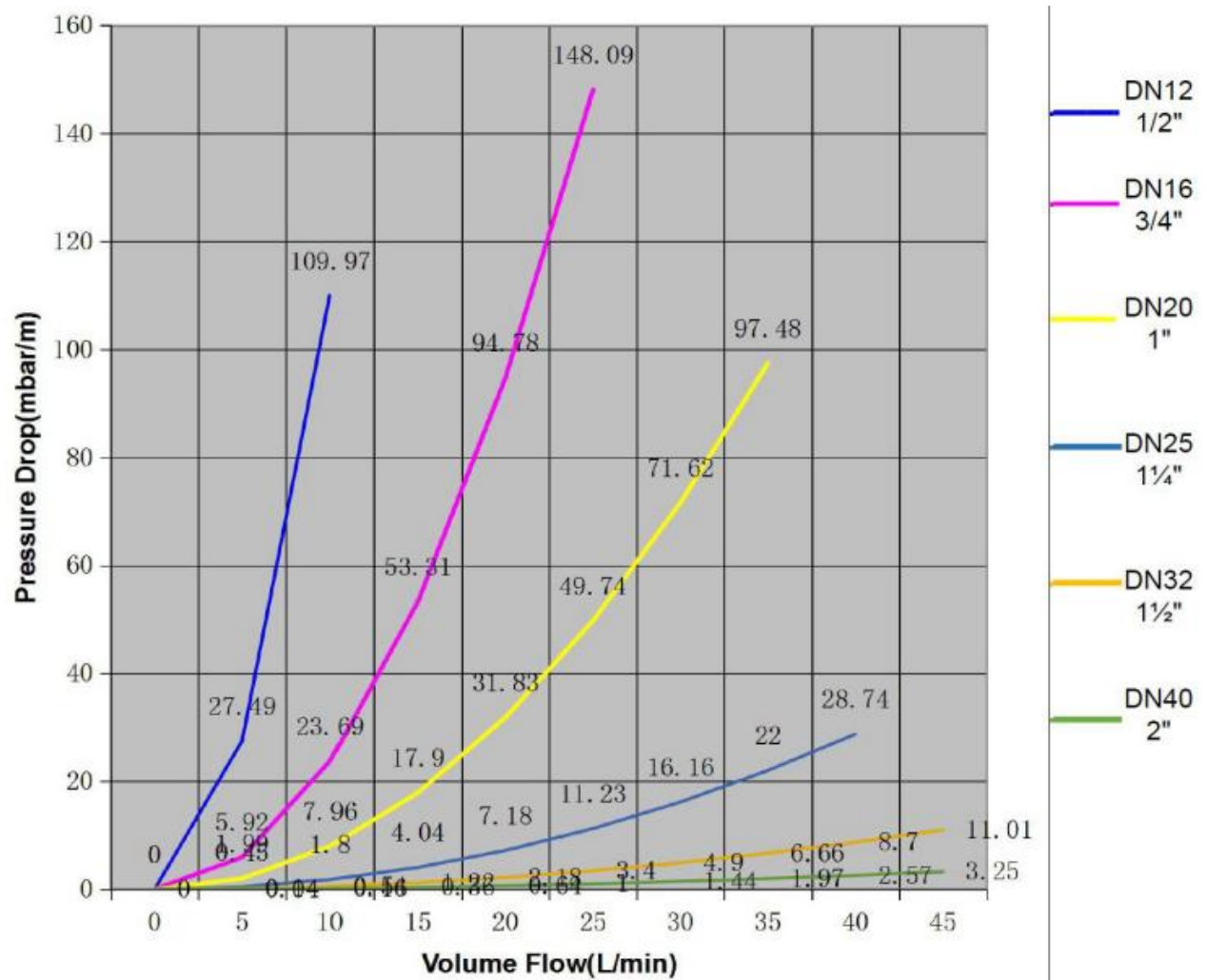
Flexible Corrugated Stainless-Steel Tube (CSST) Data Sheet

DN	φID	δOD	Wall	Pith	Wave Height	Max meters per Coil	Min Bending Radius (mm)	Work Temperature	Maximum Applicable Pressure (kgf/cm ²)	Burst Pressure (kgf/cm ²)	Surface Area (m ²)	Internal Volume (ML)
	mm	mm	mm	mm	mm							
DN12-1/2"	12	16	0.25	4.5	1.75	100	30	≤450℃	10	200	0,086	155
DN16-3/4"	16	20	0.25	5	1.75	100	50	≤450℃	10	200	0,105	255
DN20--1"	20	25	0.26	5	2.24	100	70	≤450℃	10	200	0,130	340
DN25-1¼"	26	32	0.3	6	2.7	50	100	≤450℃	10	120	0,155	650
DN32-1½"	32	40	0.3	7	3.7	50	120	≤450℃	8	50	0,216	1005
DN40-2"	41	50	0.35	8	4.15	30	170	≤450℃	6	50	0,252	1600
DN50-2½"	50	62	0.4	9	5.6	15	250	≤450℃	6	35	0,330	2500

CSST Pressure Drop Calculation

Volume Flow (L/min) Pressure Drop (mbar/m)	0	5	10	15	20	25	30	35	40	45
1/2"(pressure drop mbar/m)	0	27.49	109.97							
3/4"(pressure drop mbar/m)	0	5.92	23.69	53.31	94.78	148.09				
1"(pressure drop mbar/m)	0	1.99	7.96	17.9	31.83	49.74	71.62	97.48		
1¼"(pressure drop mbar/m)	0	0.45	1.8	4.04	7.18	11.23	16.16	22	28.74	
1½"(pressure drop mbar/m)	0	0.14	0.54	1.22	2.18	3.4	4.9	6.66	8.7	11.01
2"(pressure drop mbar/m)	0	0.04	0.16	0.36	0.64	1	1.44	1.97	2.57	3.25

CSST Pressure Drop Diagram



Pre-Insulated Single Hose (for solar heating systems or heat pumps)



High quality flexible Stainless Steel pipe

HT EPDM insulation pipe, Max upto +175°C

Strong Seamless Jacketing protection (Non-PVC including) well UV resistance & anti-aging performance, excellent performance for both out-door & in-door installation can be used inside of wall or underground

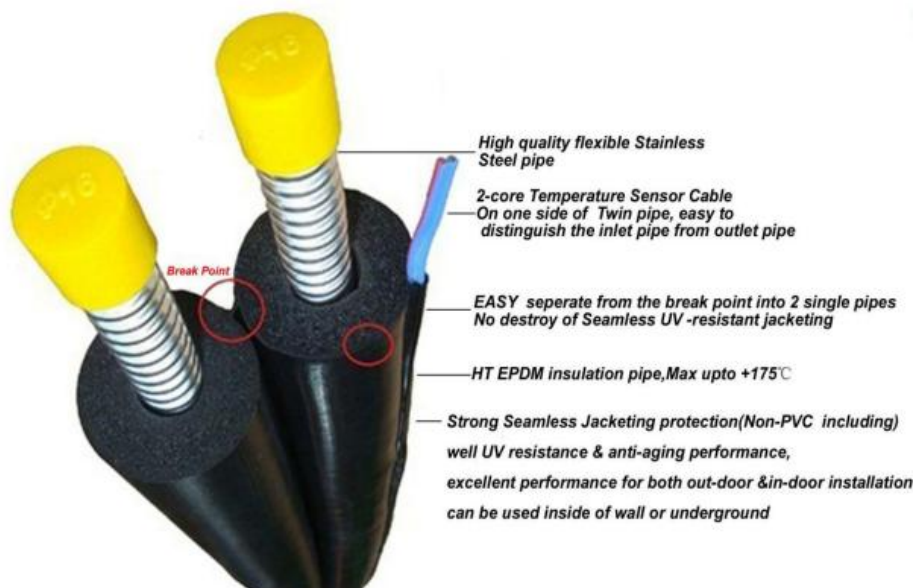
Seamless UV-Resistant Jacketing EPDM Pre Insulated Single Solar Hose

Type	Part No.	Flex CSST SIZE(OD*ID)	Pipe Connection Fittings Size	HT insulation pipe(Wall thick)	Picture
DN12	GDSIHCSST16025J.13	16mm*12mm	1/2"	13mm	 Color: Black/White/Red/Blue, other colors also Available upon customer requirement Insulation Wall Thickness: 9mm,25mm,32mm,38mm,50mm also available
DN12	GDSIHCSST16025J.20	16mm*12mm	1/2"	20mm	
DN16	GDSIHCSST20025J.13	20mm*16mm	3/4"	13mm	
DN16	GDSIHCSST20025J.20	20mm*16mm	3/4"	20mm	
DN20	GDSIHCSST25030J.13	25mm*20mm	1"	13mm	
DN20	GDSIHCSST25030J.20	25mm*20mm	1"	20mm	
DN25	GDSIHCSST32030J.13	32mm*26mm	1 1/4"	13mm	
DN25	GDSIHCSST32030J.20	32mm*26mm	1 1/4"	20mm	
DN32	GDSIHCSST40030J.13	40mm*32mm	1 1/2"	13mm	
DN32	GDSIHCSST40030J.20	40mm*32mm	1 1/2"	20mm	
DN40	GDSIHCSST50030J.20	50mm*40mm	2"	20mm	
DN40	GDSIHCSST50030J.25	50mm*40mm	2"	25mm	

Seamless Jacketing EPDM Pre Insulated Single Solar Hose with Sensor Cable

Type	Part No.	Flex CSST SIZE(OD*ID)	Pipe Connection Fittings Size	HT insulation pipe(Wall thick)	Picture
DN12	GDSIHCSST16025JS.13	16mm*12mm	1/2"	13mm	 Color: Black/White/Red/Blue, other colors also Available upon customer requirement Insulation Wall Thickness: 9mm,25mm,32mm,38mm,50mm also available
DN12	GDSIHCSST16025JS.20	16mm*12mm	1/2"	20mm	
DN16	GDSIHCSST20025JS.13	20mm*16mm	3/4"	13mm	
DN16	GDSIHCSST20025JS.20	20mm*16mm	3/4"	20mm	
DN20	GDSIHCSST25030JS.13	25mm*20mm	1"	13mm	
DN20	GDSIHCSST25030JS.20	25mm*20mm	1"	20mm	
DN25	GDSIHCSST32030JS.13	32mm*26mm	1 1/4"	13mm	
DN25	GDSIHCSST32030JS.20	32mm*26mm	1 1/4"	20mm	
DN32	GDSIHCSST40030JS.13	40mm*32mm	1 1/2"	13mm	
DN32	GDSIHCSST40030JS.20	40mm*32mm	1 1/2"	20mm	
DN40	GDSIHCSST50030JS.20	50mm*40mm	2"	20mm	
DN40	GDSIHCSST50030JS.25	50mm*40mm	2"	25mm	

Pre-Insulated Twin Hose (for solar heating systems or heat pumps)



Type	Part №	CSST size OD/ID	Fitting size	EPDM insulation pipe (Wall T)	Picture
DN12	GDTWHTCSST16025.9	16mm*12mm	1/2"	9mm	
DN12	GDTWHTCSST16025.13	16mm*12mm	1/2"	13mm	
DN12	GDTWHTCSST16025.20	16mm*12mm	1/2"	20mm	
DN16	GDTWHTCSST20025.9	20mm*16mm	3/4"	9mm	
DN16	GDTWHTCSST20025.13	20mm*16mm	3/4"	13mm	
DN16	GDTWHTCSST20025.20	20mm*16mm	3/4"	20mm	
DN16	GDTWHTCSST20025.25	20mm*16mm	3/4"	25mm	
DN20	GDTWHTCSST25030.13	25mm*20mm	1"	13mm	
DN20	GDTWHTCSST25030.20	25mm*20mm	1"	20mm	
DN20	GDTWHTCSST25030.25	25mm*20mm	1"	25mm	
DN25	GDTWHTCSST32030.13	32mm*26mm	1 1/4"	13mm	
DN25	GDTWHTCSST32030.20	32mm*26mm	1 1/4"	20mm	
DN25	GDTWHTCSST32030.25	32mm*26mm	1 1/4"	25mm	
DN32	GDTWHTCSST40030.13	40mm*32mm	1 1/2"	13mm	
DN32	GDTWHTCSST40030.20	40mm*32mm	1 1/2"	20mm	
DN40	GDTWHTCSST50030.13	50mm*40mm	2"	13mm	
DN40	GDTWHTCSST50030.25	50mm*40mm	2"	25mm	

Pre-Insulated Hose Technical Data

	EPDM INSULATION MATERIAL	
	Material	High quality synthetic elastomer (EPDM based) with a complete closed-cell foam structure. NO any PVC plastic
	Temperature range	From -200°C to Max +175 °C
	Flammability :actual burning behavior	B1 self-extinguishing, no fireball drops, limited fire spreading
	Insulation Wall Thickness	13mm (other thickness:9mm, 20mm,25mm,32mm,38mm,50mm available)
	Water Vapor permeability	$\mu > 3000$
	Thermal Conductivity W/(m.K)	-40°C:0.030 0°C: 0.034 24°C:0.037 32°C:0.038 40°C:0.039
	Black/White SEAMLESS UV-Resistant JACKETING PROTECTION	
	Material	Seamless UV resistant and high mechanical resistant PE-HD jacketing,Not the adhesive PVC tape Good abrasion resistance and ductility
	Wall Thickness	0.35-0.5mm, very strong, Anti bird peck
	UV Resistance	Excellent UV and weather resistant properties. Passed 500 hours UV resistant test(standard test is 150hours), excellent performance
	Jacketing color	standard Color:Black, White/Gray other color available upon your requirement
	High Quality SUS316L CORRUGATED STAINLESS STEEL TUBE	
	Material	High Quality SUS316L
	OD * ID* Wall	10.8mm*8.6mm*0.20mm (DN8,1/4")
		13.5mm*10.5mm*0.20mm (DN10,3/8")
		16mm*12mm*0.21mm (DN12,1/2")
		20mm(21.3mm)*16mm(16.8mm)*0.21mm (DN16, 3/4")
		25mm*20mm*0.26mm (DN20, 1")
		32mm*26mm*0.26mm/0.3mm (DN25, 1¼")
		40mm*32mm*0.3mm (DN32, 1½")
		50mm*42mm*0.33mm (DN40, 2")
	work temperature	-200°C to +450°C
	work pressure	DN12 17.5bar
		DN16 15bar
		DN20 12bar
		DN25 6bar, DN32 5bar, DN32 4bar
	heat treatment	+1050°C high temperature annealing heat treatment,
		food safety grade ,no oil on body,clean
		inner and outer wall both are bright
	TEMPERATURE SENSOR CABLE	
	Temperature Range	from -200°C to +220°C
	Flexible Copper	0.5mm ² , 2 core
	Wire Insulation	HT Silicon
	Rated Voltage	300/500 V

High-Temperature EPDM Insulation



Type	Part №	Inner Diameter		Wall Thickness
		mm	inch	
1	GDHT9013	13	1/2	9mm
2	GDHT9016	16	5/8	9mm
3	GDHT9019	19	3/4	9mm
4	GDHT9022	22	7/8	9mm
5	GDHT9025	25	1	9mm
6	GDHT9032	32	1-1/4	9mm
7	GDHT13013	13	1/2	13mm
8	GDHT13016	16	5/8	13mm
9	GDHT13019	19	3/4	13mm
10	GDHT13022	22	7/8	13mm
11	GDHT13025	25	1	13mm
12	GDHT13032	32	1-1/4	13mm
13	GDHT13042	42	1-1/2	13mm
14	GDHT20022	22	7/8	20mm
15	GDHT20025	25	1	20mm
16	GDHT20032	32	1-1/4	20mm
17	GDHT20042	42	1-1/2	20mm
18	GDHT20051	51	2	20mm
19	GDHT25025	25	1	25mm
20	GDHT25032	32	1-1/4	25mm
21	GDHT25042	42	1-1/2	25mm
22	GDHT25051	51	2	25mm
Remark: Wall thickness available: 9mm, 13mm, 20mm, 25mm, 32mm, 38mm, and 50mm Insulation Pipe Inner Diameter sizes are available from 6mm to 140mm. Please feel free to contact us.				

High-Temperature EPDM Insulation Pipe Size

inner diameter		wall thickness 9 & 10 mm		wall thickness 13 mm		wall thickness 20 mm	
		3/8"	carton volume	1/2"	carton volume	3/4"	carton volume
mm	inch	code	M./ctn.	code	M./ctn.	code	M./ctn.
6	1/4	GDHT09006①	264	GDHT13006	160	GDHT20006	64
10	3/8	GDHT09010	220	GDHT13010	140	GDHT20010	64
13	1/2	GDHT09013	168	GDHT13013	120	GDHT20013	64
16	5/8	GDHT09016	140	GDHT13016	100	GDHT20016	56
19	3/4	GDHT09019	120	GDHT13019	80	GDHT20019	48
22	7/8	GDHT09022	108	GDHT13022	64	GDHT20022	40
25	1	GDHT09025	88	GDHT13025	60	GDHT20025	36
28	1.1/8	GDHT09028	72	GDHT13028	56	GDHT20028	36
32	1.1/4	GDHT09032	68	GDHT13032	48	GDHT20032	36
35	1.3/8	GDHT09035	64	GDHT13035	40	GDHT20035	32
38	1.1/2	GDHT10038	56	GDHT13038	36	GDHT20038	24
42	1.5/8	GDHT10042	48	GDHT13042	36	GDHT20042	24
45	1.3/4	GDHT10045	48	GDHT13045	36	GDHT20045	20
48	1.7/8	GDHT10048	40	GDHT13048	32	GDHT20048	20
52	2	GDHT10051	36	GDHT13051	28	GDHT20051	16
54	2.1/8	GDHT10054	36	GDHT13054	28	GDHT20054	16
57	2.1/4	GDHT10057	36	GDHT13057	28	GDHT20057	16
60	2.3/8	GDHT10060	32	GDHT13060	24	GDHT20060	16
64	2.1/2	GDHT10064	32	GDHT13064	20	GDHT20064	16
67	2.5/8	GDHT10067	28	GDHT13067	20	GDHT20067	16
74	2.7/8	GDHT10073	20	GDHT13073	20	GDHT20073	12
76	3	GDHT10076	20	GDHT13076	16	GDHT20076	12
80	3.1/8			GDHT13080	16	GDHT20080	12
83	3.1/4			GDHT13083	16	GDHT20083	12
90	3.1/2			GDHT13090	16	GDHT20090	12
92	3.5/8			GDHT13092	16	GDHT20092	12
98	3.7/8			GDHT13098	16	GDHT20098	8
102	4			GDHT13102	16	GDHT20102	8
105	4.1/8			GDHT13105	12	GDHT20105	8
109	4.1/4			GDHT13109	12	GDHT20109	8
115	4.1/2					GDHT20115	8
125						GDHT20125	8
127	5"					GDHT20127	8
130	5.1/8					GDHT20130	8
140	5.1/2					GDHT20140	8

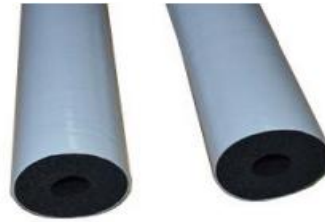
Inner diameter		wall thickness 25 mm		wall thickness 32 mm		wall thickness 38 mm	
		1"	carton volume	1.1/4"	carton volume	1.1/2"	carton volume
mm	inch	code	M./ctn.	code	M./ctn.	code	M./ctn.
6	1/4	GDHT25006①	48				
10	3/8	GDHT25010	48				
13	1/2	GDHT25013	40	GDHT32013	28		
16	5/8	GDHT25016	36	GDHT32016	28	GDHT38016	28
19	3/4	GDHT25019	36	GDHT32019	24	GDHT38019	24
22	7/8	GDHT25022	32	GDHT32022	24	GDHT38022	24
25	1	GDHT25025	24	GDHT32025	20	GDHT38025	20
28	1.1/8	GDHT25028	24	GDHT32028	16	GDHT38028	16
32	1.1/4	GDHT25032	24	GDHT32032	16	GDHT38032	16
35	1.3/8	GDHT25035	20	GDHT32035	16	GDHT38035	16
38	1.1/2	GDHT25038	20	GDHT32038	16	GDHT38038	16
42	1.5/8	GDHT25042	16	GDHT32042	16	GDHT38042	16
45	1.3/4	GDHT25045	16	GDHT32045	16	GDHT38045	16
48	1.7/8	GDHT25048	16	GDHT32048	12	GDHT38048	12
52	2	GDHT25051	16	GDHT32051	12	GDHT38051	12
54	2.1/8	GDHT25054	16	GDHT32054	12	GDHT38054	12
57	2.1/4	GDHT25057	16	GDHT32057	12	GDHT38057	12
60	2.3/8	GDHT25060	12	GDHT32060	8	GDHT38060	8
64	2.1/2	GDHT25064	12	GDHT32064	8	GDHT38064	8
67	2.5/8	GDHT25067	12	GDHT32067	8	GDHT38067	8
74	2.7/8	GDHT25073	12	GDHT32073	8	GDHT38073	8
76	3	GDHT25076	12	GDHT32076	8	GDHT38076	8
80	3.1/8	GDHT25080	12	GDHT32080	8	GDHT38080	8
83	3.1/4	GDHT25083	12	GDHT32083	8	GDHT38083	8
90	3.1/2	GDHT25090	8	GDHT32090	8	GDHT38090	8
92	3.5/8	GDHT25092	8	GDHT32092	8	GDHT38092	8
98	3.7/8	GDHT25098	8	GDHT32098	8	GDHT38098	8
102	4	GDHT25102	8	GDHT32102	8	GDHT38102	8
105	4.1/8	GDHT25105	8	GDHT32105	8	GDHT38105	8
109	4.1/4	GDHT25109	8	GDHT32109	8	GDHT38109	8
115	4.1/2	GDHT25115	8	GDHT32115	8	GDHT38115	8
125		GDHT25125	8	GDHT32125	6	GDHT38125	6
127	5"	GDHT25127	8	GDHT32127	6	GDHT38127	6
130	5.1/8	GDHT25130	8	GDHT32130	4	GDHT38130	4
140	5.1/2	GDHT25140	6	GDHT32140	4	GDHT38140	4

If pipe ID bigger than 140mm, please choose sheet instead of pipe

EPDM Insulation Sheet Size

Thickness	3mm	6mm	10mm	13mm	16mm	20mm	25mm	32mm	38mm	50mm
Width	1m	1.2m	1.2m	1.2m	1.2m	1.2m	1.2m	1.2m	1.2m	1.2m
Max. Length	45m	22m	15m	11m	10m	7m	5m	4	3	2

Seamless UV-Resistant Jacketing EPDM Insulation Pipe



Colorful UV Jacketing Insulation Pipe



Passed 500 hours UV resistant test ,excellent performance

Colorful Seamless UV-resistant Jacketing

Low Flammability B1 Grade

Closed cell foam structure

Type	Part №	Inner Diameter		Wall Thickness
		mm	inch	
1	GDUV9016	16	5/8	9mm
2	GDUV9019	19	3/4	9mm
3	GDUV9022	22	7/8	9mm
4	GDUV9025	25	1	9mm
5	GDUV9032	32	1-1/4	9mm
6	GDUV13013	13	1/2	9mm
7	GDUV13016	16	5/8	13mm
8	GDUV13019	19	3/4	13mm
9	GDUV13022	22	7/8	13mm
10	GDUV13025	25	1	13mm
11	GDUV13032	32	1-1/4	13mm
12	GDUV13042	42	1-1/2	13mm
13	GDUV20022	22	7/8	13mm
14	GDUV20025	25	1	20mm
15	GDUV20032	32	1-1/4	20mm
16	GDUV20042	42	1-1/2	20mm
17	GDUV20051	51	2	20mm
18	GDUV25025	25	1	20mm
19	GDUV25032	32	1-1/4	25mm
20	GDUV25042	42	1-1/2	25mm
21	GDUV25051	51	2	25mm
Remark: Wall thickness available: 9mm, 13mm,20mm, 25mm, 32mm, 38mm, and 50mm Colors : Black, White, Red, Blue, and other colors are also available upon request.				

Seamless UV-Resistant Jacketing EPDM Insulation Pipe Size

inner diameter		wall thickness 9 & 10 mm		wall thickness 13 mm		wall thickness 20 mm	
		3/8"	carton volume	1/2"	carton volume	3/4"	carton volume
mm	inch	code	M./ctn.	code	M./ctn.	code	M./ctn.
6	1/4	GDUV09006①	264	GDUV13006	160	GDUV20006	64
10	3/8	GDUV09010	220	GDUV13010	140	GDUV20010	64
13	1/2	GDUV09013	168	GDUV13013	120	GDUV20013	64
16	5/8	GDUV09016	140	GDUV13016	100	GDUV20016	56
19	3/4	GDUV09019	120	GDUV13019	80	GDUV20019	48
22	7/8	GDUV09022	108	GDUV13022	64	GDUV20022	40
25	1	GDUV09025	88	GDUV13025	60	GDUV20025	36
28	1.1/8	GDUV09028	72	GDUV13028	56	GDUV20028	36
32	1.1/4	GDUV09032	68	GDUV13032	48	GDUV20032	36
35	1.3/8	GDUV09035	64	GDUV13035	40	GDUV20035	32
38	1.1/2	GDUV10038	56	GDUV13038	36	GDUV20038	24
42	1.5/8	GDUV10042	48	GDUV13042	36	GDUV20042	24
45	1.3/4	GDUV10045	48	GDUV13045	36	GDUV20045	20
48	1.7/8	GDUV10048	40	GDUV13048	32	GDUV20048	20
52	2	GDUV10051	36	GDUV13051	28	GDUV20051	16
54	2.1/8	GDUV10054	36	GDUV13054	28	GDUV20054	16
57	2.1/4	GDUV10057	36	GDUV13057	28	GDUV20057	16
60	2.3/8	GDUV10060	32	GDUV13060	24	GDUV20060	16
64	2.1/2	GDUV10064	32	GDUV13064	20	GDUV20064	16
67	2.5/8	GDUV10067	28	GDUV13067	20	GDUV20067	16
74	2.7/8	GDUV10073	20	GDUV13073	20	GDUV20073	12
76	3	GDUV10076	20	GDUV13076	16	GDUV20076	12
80	3.1/8			GDUV13080	16	GDUV20080	12
83	3.1/4			GDUV13083	16	GDUV20083	12
90	3.1/2			GDUV13090	16	GDUV20090	12
92	3.5/8			GDUV13092	16	GDUV20092	12
98	3.7/8			GDUV13098	16	GDUV20098	8
102	4			GDUV13102	16	GDUV20102	8
105	4.1/8			GDUV13105	12	GDUV20105	8
109	4.1/4			GDUV13109	12	GDUV20109	8
115	4.1/2					GDUV20115	8
125						GDUV20125	8
127	5"					GDUV20127	8
130	5.1/8					GDUV20130	8
140	5.1/2					GDUV20140	8

Inner diameter		wall thickness 25 mm		wall thickness 32 mm		wall thickness 38 mm	
		1"	carton volume	1.1/4"	carton volume	1.1/2"	carton volume
mm	inch	code	M./ctn.	code	M./ctn.	code	M./ctn.
6	1/4	GDUV25006①	48				
10	3/8	GDUV25010	48				
13	1/2	GDUV25013	40	GDUV32013	28		
16	5/8	GDUV25016	36	GDUV32016	28	GDUV38016	28
19	3/4	GDUV25019	36	GDUV32019	24	GDUV38019	24
22	7/8	GDUV25022	32	GDUV32022	24	GDUV38022	24
25	1	GDUV25025	24	GDUV32025	20	GDUV38025	20
28	1.1/8	GDUV25028	24	GDUV32028	16	GDUV38028	16
32	1.1/4	GDUV25032	24	GDUV32032	16	GDUV38032	16
35	1.3/8	GDUV25035	20	GDUV32035	16	GDUV38035	16
38	1.1/2	GDUV25038	20	GDUV32038	16	GDUV38038	16
42	1.5/8	GDUV25042	16	GDUV32042	16	GDUV38042	16
45	1.3/4	GDUV25045	16	GDUV32045	16	GDUV38045	16
48	1.7/8	GDUV25048	16	GDUV32048	12	GDUV38048	12
52	2	GDUV25051	16	GDUV32051	12	GDUV38051	12
54	2.1/8	GDUV25054	16	GDUV32054	12	GDUV38054	12
57	2.1/4	GDUV25057	16	GDUV32057	12	GDUV38057	12
60	2.3/8	GDUV25060	12	GDUV32060	8	GDUV38060	8
64	2.1/2	GDUV25064	12	GDUV32064	8	GDUV38064	8
67	2.5/8	GDUV25067	12	GDUV32067	8	GDUV38067	8
74	2.7/8	GDUV25073	12	GDUV32073	8	GDUV38073	8
76	3	GDUV25076	12	GDUV32076	8	GDUV38076	8
80	3.1/8	GDUV25080	12	GDUV32080	8	GDUV38080	8
83	3.1/4	GDUV25083	12	GDUV32083	8	GDUV38083	8
90	3.1/2	GDUV25090	8	GDUV32090	8	GDUV38090	8
92	3.5/8	GDUV25092	8	GDUV32092	8	GDUV38092	8
98	3.7/8	GDUV25098	8	GDUV32098	8	GDUV38098	8
102	4	GDUV25102	8	GDUV32102	8	GDUV38102	8
105	4.1/8	GDUV25105	8	GDUV32105	8	GDUV38105	8
109	4.1/4	GDUV25109	8	GDUV32109	8	GDUV38109	8
115	4.1/2	GDUV25115	8	GDUV32115	8	GDUV38115	8
125		GDUV25125	8	GDUV32125	6	GDUV38125	6
127	5"	GDUV25127	8	GDUV32127	6	GDUV38127	6
130	5.1/8	GDUV25130	8	GDUV32130	4	GDUV38130	4
140	5.1/2	GDUV25140	6	GDUV32140	4	GDUV38140	4

If pipe ID bigger than 140mm, please choose sheet instead of pipe

CSST Solder-Free Connection Fittings

Part No.	Product description	Qty	Unit	Picture
GD100010,12,13	1/2" Brass nut, HT washer(350 °C temperature resist),Stainless Steel Cir-clip DN12	1	Set	 Nut material: Standard is Brass BP57-3/BP59-1, DR/DZR Brass, Brass nickel plating nut also available
GD100015,17,18	3/4" Brass nut, HT washer ,SS Cir-clip DN16	1	Set	
GD100019,21,22	1" Brass nut, HT washer ,SS Cir-clip DN20	1	Set	
GD100040,41,42	1 1/4" Brass nut, HT washer,SS Cir-clip DN25	1	Set	
GD140010,11,12	1 1/2" Brass nut, HT washer,SS Cir-clip DN32	1	Set	
GD150010,11,12	2" Brass nut, HT washer ,SS Cir-clip DN40	1	Set	
GD100010SS	1/2" SS nut, HT washer ,SS Clip	1	Set	 Nut material: SUS304 material, SUS304 nickel plating nut also available
GD100015SS	3/4" SS nut, HT washer ,SS Clip	1	Set	
GD100019SS	1" SS nut, HT washer ,SS Clip	1	Set	
GD100040SS	1 1/4" SS nut, HT washer ,SS Clip	1	Set	
GD140010SS	1 1/2" SS nut, HT washer ,SS Clip	1	Set	
GD150010SS	2" SS nut, HT washer ,SS Clip	1	Set	
GD200010-16-M 3/4	Quick connection fitting No need gasket Male 3/4"---DN16 solar hose	1	Set	 
GD200010-16-F 3/4	Female 3/4"---DN16 solar hose	1	Set	
GD200010-16-φ 22	φ 22mm compression ---DN16 solar hose	1	Set	
GD200010-16-F1/2	Female 1/2"---DN16 solar hose	1	Set	
GD200010-16-M1/2	Male 1/2"---DN16 solar hose	1	Set	
GD200010-20-M1	Male 1"---DN20 solar hose	1	Set	
GD200010-20-F1	Female 1"---DN20 solar hose	1	Set	
GD200010-20-φ 22	φ 22mm compression ---DN20 solar hose	1	Set	
GD200010-25-M1	Female 1"---DN25 solar hose	1	Set	
GD200010-25-M1	Male 1"---DN25 solar hose	1	Set	
GD200010-25-M5/4	Male 1.1/4"---DN25 solar hose	1	Set	

GD200010-25-F5/4	Female 1.1/4"---DN25 solar hose	1	Set	
GD100011	1/2" - DN12 Brass Double Nipple (big flat end)	1	pc	SUS304 material also available 
GD100016	3/4"-DN16 Brass Double Nipple (big flat end)	1	pc	
GD100020	1"-DN20 Brass Double Nipple (big flat end)	1	pc	
GD100043	1 1/4 - DN25 Brass Double Nipple (big flat end)	1	pc	
GD140014	1 1/2" - DN32 Brass Double Nipple (big flat end)	1	pc	
GD150014	2" - DN40 Brass Double Nipple (big flat end)	1	pc	
GD10002016	reducer connector (M3/4"- M1/2")	1	pc	
	reducer connector (M1"- M3/4")	1	pc	
	reducer connector (M1 1/4" - M1")	1	pc	
	reducer connector (M1 1/2" - M1 1/4")	1	pc	
	reducer connector (M2" - M1 1/2")	1	pc	
	reducer connector (M1" - M1/2")	1	pc	
	reducer connector (M1 1/4"- M3/4")	1	pc	
GD100039	DN12(1/2") flex ss tube-22mm copper tube connector	1	pc	
	3/4" flex ss tube-22mm copper tube	1	pc	
	1" flex ss tube-22mm copper tube	1	pc	
GD100033	DN12 Brass Tee 1/2"M-1/2"M-1/2"M	1	pc	
	3/4"M-3/4"M-3/4"M	1	pc	
	1"M-1"M-1"M			
GD100033	Female Tee 1/2"F-1/2"F-1/2"F	1	pc	SUS304/SUS316L material also available 
	3/4"F-3/4"F-3/4"F	1	pc	
	1"F-1"F-1"F	1	pc	
	1 1/4"F-1 1/4"F-1 1/4"F	1	pc	
	1 1/2"F-1 1/2"F-1 1/2"F	1	pc	
	2"F-2"F-2"F	1	pc	
	1"F-3/4"F-1"F	1	pc	
	1 1/4"F-3/4"F-1 1/4"F	1	pc	
	1 1/2"F-3/4"F-1 1/2"F	1	pc	
	2"F-3/4"F-2"F	1	pc	

	1¼"F-1"F-1¼"F	1	pc	
	1½"F-1"F-1½"F	1	pc	
	2"F-1"F-2"F	1	pc	
	1½"F-1¼"F-1½"F	1	pc	
	2"F-1¼"F-2"F	1	pc	
GD100040	Brass Socket F1/2"-F1/2"	1	pc	SUS304/SUS316L material also available 
	F3/4" -- F3/4"	1	pc	
	F1" -- F1"	1	pc	
	F1¼" -- F1¼"	1	pc	
	F1½" -- F1½"	1	pc	
	F2" -- F2"	1	pc	
	F3/4" -- F1/2"	1	pc	
	F1" -- F3/4"	1	pc	
	F1¼" -- F1"	1	pc	
	F1½" -- 1¼"	1	pc	
GD100037F	Female End Cap Stop 1/2"Female	1	pc	SUS304/SUS316L material also available  Inside can with HT Seal Gasket
	End Cap Stop 3/4"F	1	pc	
	End Cap Stop 1"F	1	pc	
	End Cap Stop 1¼"F	1	pc	
	End Cap Stop 1½" F	1	pc	
	End Cap Stop 2" F	1	pc	
GD100037M	Male End Cap Stop 1/2"Male	1	pc	SUS304/SUS316L material also available 
	3/4" male	1	pc	
	1" male	1	pc	
	1¼"male	1	pc	
	1½" male	1	pc	
	2" male	1	pc	
GD100014	Reducing Connector (M3/4"-F1/2")	1	pc	SUS304/SUS316L material also available 
	M1"-F3/4"	1	pc	
	M1"-F1/2"	1	pc	
	M1¼"-F1"	1	pc	
	M1½"-F1¼"	1	pc	
	M2"-F1½"	1	pc	
	M1"-F1/2"	1	pc	
	M1¼"-F3/4"	1	pc	
	M1½"-F1"	1	pc	
	M2"-F1"	1	pc	
	M2"-F1¼"	1	pc	
GD100048	Pump connection fitting with seal ½"male -- ¾" male flex (large flat face)	1	pc	
	Pump connection fitting with seal ¾"male -- 1" male flex	1	pc	
	Pump connection fitting with Seal 1"male -- 1" male flex	1	pc	

GD130010	Tank seal entry/exit fittings (1/2" CSST -1/2" Male)	1	pc	
	Tank seal entry/exit fittings (3/4" CSST -3/4" Male)	1	pc	
	Tank seal entry/exit fittings (1" CSST -1" Male)	1	pc	
	Tank seal entry/exit fittings (1.1/4" CSST -1.1/4" Male)	1	pc	
	Tank seal entry/exit fittings (1.1/2" CSST -1.1/2" Male)	1	pc	
	Tank seal entry/exit fittings (2" CSST -2" Male)	1	pc	
GD100023	Flat Tool DN12	1	pc	
	Flat Tool DN16	1	pc	
	Flat Tool DN20	1	pc	
	Flat Tool DN25	1	pc	
	Flat Tool DN32	1	pc	
	Flat Tool DN40	1	pc	
GD100023-L	Flat Tool DN12 (Non-hammer required type)	1	pc	
	Flat Tool DN16 (Non-hammer required type)	1	pc	
	Flat Tool DN20 (Non-hammer required type)	1	pc	
GD100024	Cutter (it can cut 8mm-28mm pipe)	1	pc	
	Cutter (it can cut 8mm-54mm pipe)	1	pc	
GD100028	DN12-1/2" Twin Metal Pipe Support	1	pc	
	DN16-3/4" Twin Metal Pipe Support	1	pc	
	DN20-1" Twin Metal Pipe Support	1	pc	
GD100028-SG	1/2" Single Metal Pipe Support	1	pc	
	3/4"	1	pc	
	1"	1	pc	
	1 1/4"	1	pc	
	1 1/2"	1	pc	
	2"	1	pc	

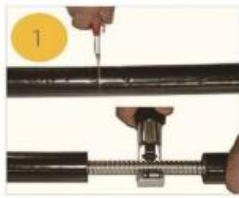
GD100026-A SP-T	Asphaltum Self-adhesive Tape(50mm width*10 meter length)	1	coil	
GD100026-PV C-T	PVC Self-adhesive Tape(50mm width*10 meter length)	1	coil	
GD100026-PT F-T	PTFE Sealing Tape(20meters length)	1	pc	
GD100026-AL U-T	Aluminium foil self adhesive tape (50mm width*10 meters length)	1	coil	
GD10006	DN12-1/2" NPT Male Fitting(Brass nut, washer,Cir-clip including)	1	pc	 NPT Thread
	DN16-3/4"NPT Male Fitting(Brass nut, washer,Cir-clip including)	1	pc	
	DN20-1"NPT Male Fitting(Brass nut, washer,Cir-clip including)	1	pc	
	DN25-1¼"NPT Male Fitting(Brass nut, washer,Cir-clip including)	1	pc	
	DN32-1½"NPT Male Fitting(Brass nut, washer,Cir-clip including)	1	pc	
	DN40-2"NPT Male Fitting(Brass nut, washer,Cir-clip including)	1	pc	
GD10007	DN12-1/2"NPT Female Fitting(Brass nut,washer,Cir-clip including)	1	pc	
	DN16-3/4"NPT Female Fitting(Brass nut, washer,Cir-clip including)	1	pc	
	DN20-1"NPT Female Fitting(Brass nut, washer,Cir-clip including)	1	pc	

	DN25-1½"NPT Female Fitting(Brass nut, washer,Cir-clip including)	1	pc	NPT Thread
	DN32-1½"NPT FemaleFitting (Brass nut, washer,Cir-clip including)	1	pc	
	DN40-2"NPT Female Fitting(Brass nut, washer,Cir-clip including)	1	pc	

Thermostatic Mixing Valves

GD130032	1/2"thermostatic mixing Valve(Nickel plated)	1	pc	
	3/4"thermostatic mixing Valve(Nickel plated)	1	pc	
	1"thermostatic mixing Valve(Nickel plated)	1	pc	
GD130033	1/2"thermostatic mixing Valve Sets	1	pc	
	3/4"thermostatic mixing Valve Sets	1	pc	
	1"thermostatic mixing Valve Sets	1	pc	
GD130034	1/2"thermostatic mixing Valve Sets with Pressure reducing and stabilizing valve	1	pc	
	3/4"thermostatic mixing Valve Sets with Pressure reducing and stabilizing valve	1	pc	
	1"thermostatic mixing Valve Sets with Pressure reducing and stabilizing valve	1	pc	

CSST Installation Guide



- Cut the insulation to the desired length with a box cutter, ensuring 75mm of the stainless-steel pipe remains exposed.
- Use a stainless-steel blade tube cutter to gently cut the pipe.
- **NOTE:** Cutting may take four complete rotations. After every rotation, please adjust the blade a ½ turn, ensuring you keep the pipe round.



- Install the nut. Compress two waves of the flex tube into the flat tool.



- Use the flat tool to flatten the CSST to form a flat seal collar.
- **NOTE:** It is very important to make sure the collar of the pipe is flat with no burr.



- Install a cir-clip to strengthen the sealing surface directly behind the flattened collar.
- The Fibre washer must be installed between the CSST flat end and the threaded brass fittings.



- **NOTE:** All CSST fittings must be FLAT SEAL with flat male end thread for sealing.
- Please ensure the fitting is tightened firmly to the connection until sealed.



Cutter



Flat Tool



Brass Nut, Cir-Clip, washer



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