

FORMFIX[®]

Fixing Systems

Strong Fastening Between Continents



www.formfix.com.tr



About us

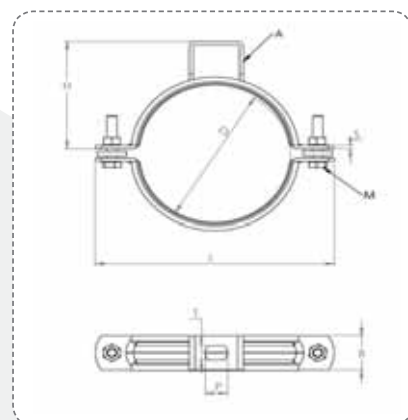
FORMFIX® targeted and committed to serve the highest quality with the highest efficiency to its customers by modern machines and automation systems in its 2000 m2 covered manufacturing facility.

Our company with its ISO 9001 Quality Systems certificate, keeps the customer satisfaction at highest priority by controlling and managing all steps of manufacturing processes.

Our supreme principal is to deliver our customer's expectations at highest level with our growing product portfolio.



FORMFIX®

**Features and Benefits:**

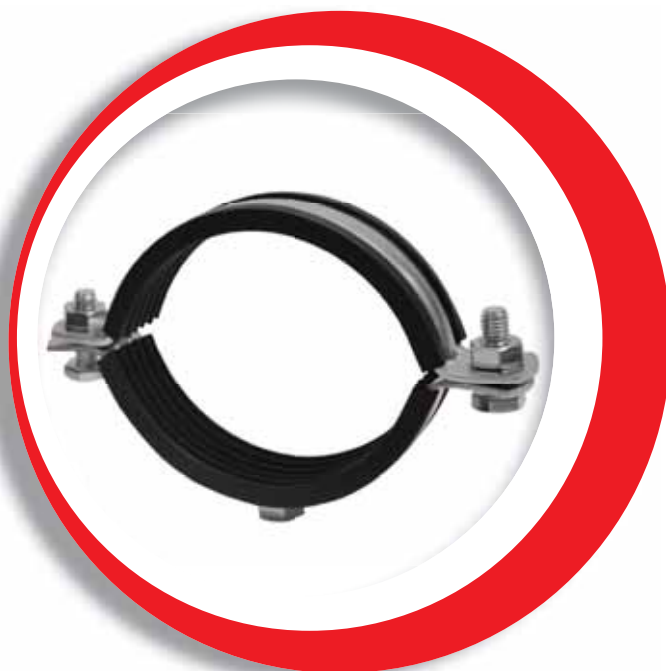
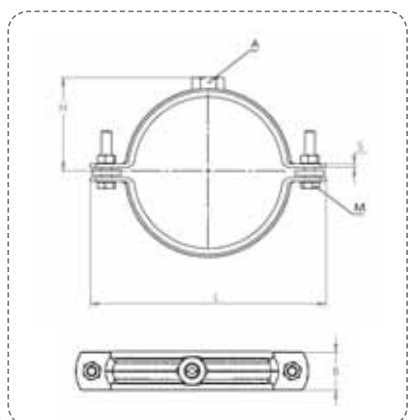
- Material: DIN EN 10130
- Two-piece pipe clamp with lining
- Bracket type heavy design
- Heavy duty pipe clamps used for mounting of pipe to the wall (vertical/horizontal) ceilings and floors
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine - free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	PxT	A	Connection Bolt (M)	Connection Nut	Recommended Load (kN)	Pack (pcs.)
FRMHD BTL-024	1/2"	20-24	2,50x30	18x11	3X30	M8X25	M8X6,5	2,75	50
FRMHD BTL-028	3/4"	23-28	2,50x30	18x11	3X30	M8X25	M8X6,5	2,75	50
FRMHD BTL-036	1"	31-36	2,50x30	18x11	3X30	M8X25	M8X6,5	2,75	50
FRMHD BTL-044	1 1/4"	38-44	2,50x30	18x11	3X30	M8X25	M8X6,5	2,75	50
FRMHD BTL-053	1 1/2"	48-53	2,50x30	18x11	3X30	M8X25	M8X6,5	2,75	50
FRMHD BTL-066	2"	59-66	2,50x30	18x11	3X30	M8X25	M8X6,5	2,75	50
FRMHD BTL-080	2 1/2"	74-80	3x30	18x11	3X30	M10X30	M10X8	3,75	25
FRMHD BTL-094	3"	87-94	3x30	18x11	3X30	M10X30	M10X8	3,75	25
FRMHD BTL-116	4"	108-116	3x30	18x11	3X30	M10X30	M10X8	3,75	25
FRMHD BTL-143	5"	135-143	4x40	24x12	4X40	M12X30	M12X10	6	10
FRMHD BTL-168	6"	162-168	4x40	24x12	4X40	M12X30	M12X10	6	10
FRMHD BTL-220	8"	206-220	4x40	24x12	4X40	M12X30	M12X10	6	10
FRMHD BTL-274	10"	260-274	4x40	24x12	4X40	M12X30	M12X10	6	10



Features and Benefits:

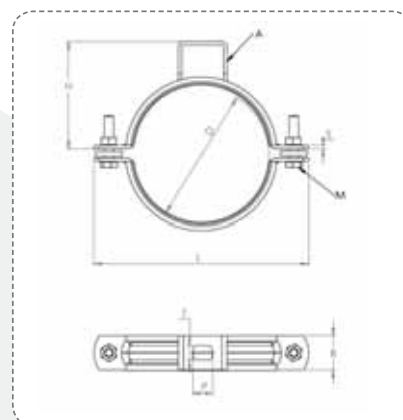
- Material: DIN EN 10130
- Two-piece pipe clamp with lining
- Heavy design
- Heavy duty pipe clamps used for mounting of pipe to the wall (vertical/horizontal) ceilings and floors
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine - free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	Connection Bolt (M)	Connection Nut	Recommended Load (kN)	Pack (pcs.)
FRMHD SL12-024	1/2"	20-24	2,50x30	M12	M8X25	M8X6,5	2,75	50
FRMHD SL12-028	3/4"	23-28	2,50x30	M12	M8X25	M8X6,5	2,75	50
FRMHD SL12-036	1"	31-36	2,50x30	M12	M8X25	M8X6,5	2,75	50
FRMHD SL12-044	1 1/4"	38-44	2,50x30	M12	M8X25	M8X6,5	2,75	50
FRMHD SL12-053	1 1/2"	48-53	2,50x30	M12	M8X25	M8X6,5	2,75	50
FRMHD SL12-066	2"	59-66	2,50x30	M12	M8X25	M8X6,5	2,75	50
FRMHD SL12-080	2 1/2"	74-80	3x30	M12	M10X30	M10X8	3,75	25
FRMHD SL12-094	3"	87-94	3x30	M12	M10X30	M10X8	3,75	25
FRMHD SL12-116	4"	108-116	3x30	M12	M10X30	M10X8	3,75	25
FRMHD SL16-143	5"	135-143	4x40	M16	M12X30	M12X10	6	10
FRMHD SL16-168	6"	162-168	4x40	M16	M12X30	M12X10	6	10
FRMHD SL16-220	8"	206-220	4x40	M16	M12X30	M12X10	6	10
FRMHD SL16-274	10"	260-274	4x40	M16	M12X30	M12X10	6	10

**Features and Benefits:**

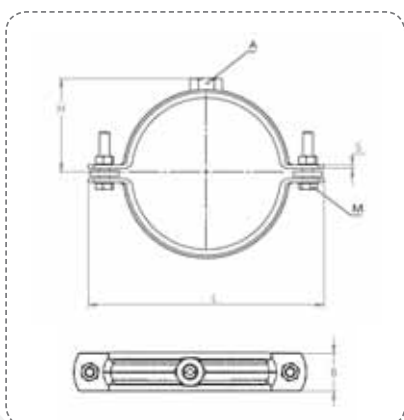
- Material: DIN EN 10130
- Two-piece pipe clamp with lining
- Bracket type heavy design – ECO model
- Heavy duty pipe clamps used for mounting of pipe to the wall (vertical/horizontal) ceilings and floors
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

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- Resistant to ozone UV, weather and sea water
- Temperature resistance from -50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	PxT	A	Connection Bolt (M)	Connection Nut	Recommended Load (kN)	Pack (pcs.)
FRMHDE BTL-024	1/2"	20-24	2x25	18x11	2x25	M8x25	M8x6,5	2,75	50
FRMHDE BTL-028	3/4"	23-28	2x25	18x11	2x25	M8x25	M8x6,5	2,75	50
FRMHDE BTL-036	1"	31-36	2x25	18x11	2x25	M8x25	M8x6,5	2,75	50
FRMHDE BTL-044	1 1/4"	38-44	2x25	18x11	2x25	M8x25	M8x6,5	2,75	50
FRMHDE BTL-053	1 1/2"	48-53	2x25	18x11	2x25	M8x25	M8x6,5	2,75	50
FRMHDE BTL-066	2"	59-66	2x25	18x11	2x25	M8x25	M8x6,5	2,75	50
FRMHDE BTL-080	2 1/2"	74-80	2x25	18x11	2x25	M8x25	M8x6,5	3,75	25
FRMHDE BTL-094	3"	87-94	2x25	18x11	2x25	M8x25	M8x6,5	3,75	25
FRMHDE BTL-116	4"	108-116	2,50x30	18x11	2,5x30	M10x30	M10x8	3,75	25
FRMHDE BTL-143	5"	135-143	3x30	24x12	3x30	M10x30	M10x8	6	10
FRMHDE BTL-168	6"	162-168	3x30	24x12	3x30	M10x30	M10x8	6	10
FRMHDE BTL-220	8"	206-220	3x30	24x12	3x30	M10x30	M10x8	6	10
FRMHDE BTL-274	10"	260-274	3x30	24x12	3x30	M10x30	M10x8	6	10



Features and Benefits:

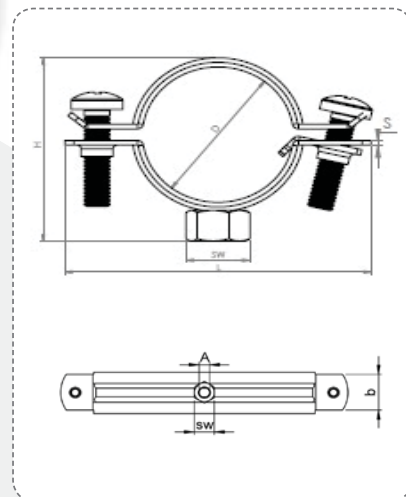
- Material: DIN EN 10130
- Two-piece pipe clamp with lining
- Heavy design – ECO model
- Heavy duty pipe clamps used for mounting of pipe to the wall (vertical/horizontal) ceilings and floors
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine - free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	Connection Bolt (M)	Connection Nut	Recommended Load (kN)	Pack (pcs.)
FRMHDE SL12-024	1/2"	20-24	2x25	M12	M8x25	M8X6,5	2,75	50
FRMHDE SL12-028	3/4"	23-28	2x25	M12	M8x25	M8X6,5	2,75	50
FRMHDE SL12-036	1"	31-36	2x25	M12	M8x25	M8X6,5	2,75	50
FRMHDE SL12-044	1 1/4"	38-44	2x25	M12	M8x25	M8X6,5	2,75	50
FRMHDE SL12-053	1 1/2"	48-53	2x25	M12	M8x25	M8X6,5	2,75	50
FRMHDE SL12-066	2"	59-66	2x25	M12	M8x25	M8X6,5	2,75	50
FRMHDE SL12-080	2 1/2"	74-80	2x25	M12	M8x25	M10X8	3,75	25
FRMHDE SL12-094	3"	87-94	2x25	M12	M8x25	M10X8	3,75	25
FRMHDE SL12-116	4"	108-116	2,50x30	M12	M10x30	M10X8	3,75	25
FRMHDE SL16-143	5"	135-143	3x30	M16	M10x30	M10X8	6	10
FRMHDE SL16-168	6"	162-168	3x30	M16	M10x30	M10X8	6	10
FRMHDE SL16-220	8"	206-220	3x30	M16	M10x30	M10X8	6	10
FRMHDE SL16-274	10"	260-274	3x30	M16	M10x30	M10X8	6	10



Features and Benefits:

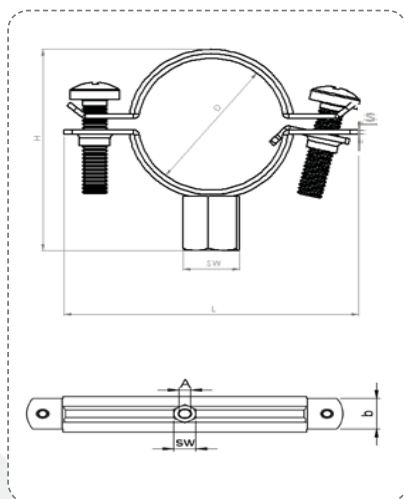
- Material: DIN EN 10130
- Two-piece pipe clamps with lining and easy locking system
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine - free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw	Recommended Load (kN)	Pack (pcs.)
FRMEL SL08-016	1/4"	12-16	1,20x20	M8	13	26,5	56	M5x25	1	100
FRMEL SL08-019	3/8"	15-19	1,20x20	M8	13	29	60	M5x25	1	100
FRMEL SL08-023	1/2"	20-23	1,20x20	M8	13	33,5	62	M5x25	1	100
FRMEL SL08-030	3/4"	26-30	1,20x20	M8	13	39	70,5	M5x25	1	100
FRMEL SL08-036	1"	31-36	1,20x20	M8	13	49,5	79	M5x25	1,3	100
FRMEL SL08-046	1 1/4"	40-46	1,20x20	M8	13	53,5	88	M5x25	1,3	100
FRMEL SL08-053	1 1/2"	48-53	1,20x20	M8	13	59	94	M5x25	1,3	50
FRMEL SL08-059	—	54-59	1,50x20	M8	13	67,5	102	M5x25	1,3	50
FRMEL SL08-064	2"	60-64	1,50x20	M8	13	76	109	M5x25	1,3	50
FRMEL SL10-083	2 1/2"	72-83	2x25	M10	17	97	133	M6x30	2	50
FRMEL SL10-092	3"	87-92	2x25	M10	17	106	145	M6x30	2	50
FRMEL SL10-116	4"	102-116	2x25	M10	17	131	169	M6x30	2	50
FRMEL SL10-130	—	124-130	2,50x25	M10	17	140	178	M6x30	2,5	25
FRMEL SL10-141	5"	132-141	2,50x25	M10	17	156	198,5	M6x30	2,5	25
FRMEL SL10-168	6"	159-168	2,50x25	M10	17	184	229	M6x30	2,5	25



Features and Benefits:

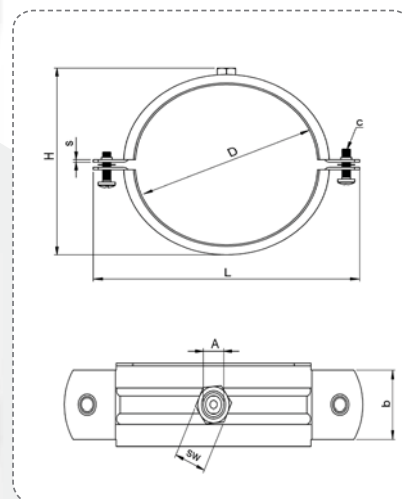
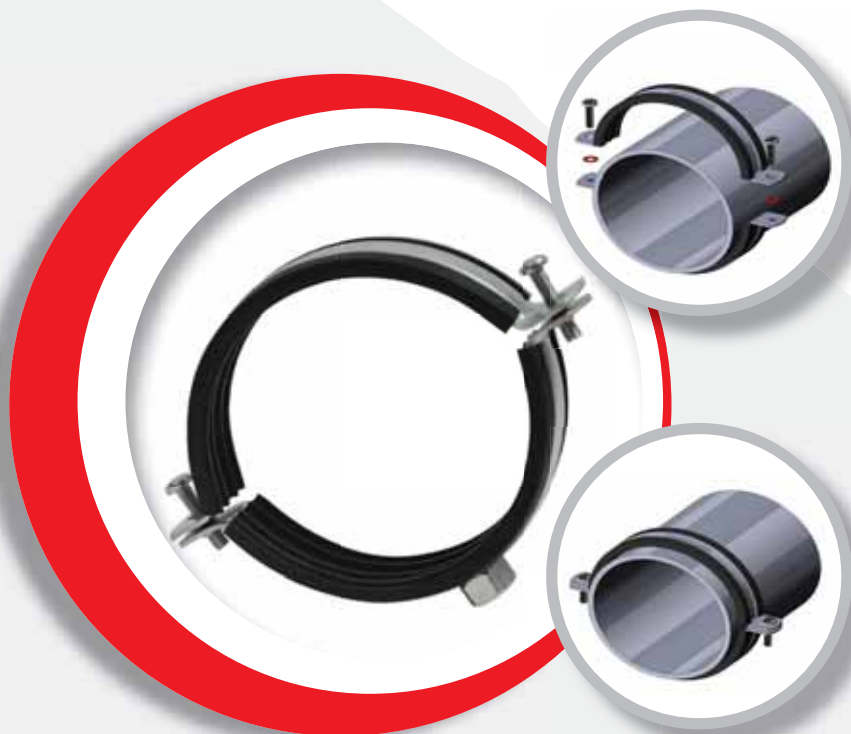
- Material: DIN EN 10130
- Two-piece pipe clamps with lining and easy locking system
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2
- Connecting nut with combination thread M8/M10

Rubber Profile: EPDM

- Extruded profile
- Chlore - free
- Resistant to ozon UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw	Recommended Load (kN)	Pack (pcs.)
FRMEL CSL-016	1/4"	12-16	1,20x20	M8/M10	13	38	56	M5x25	1	100
FRMEL CSL-019	3/8"	15-19	1,20x20	M8/M10	13	40,5	60	M5x25	1	100
FRMEL CSL-023	1/2"	20-23	1,20x20	M8/M10	13	45	62	M5x25	1	100
FRMEL CSL-030	3/4"	26-30	1,20x20	M8/M10	13	49,5	70,5	M5x25	1	100
FRMEL CSL-036	1"	31-36	1,20x20	M8/M10	13	60	79	M5x25	1,3	100
FRMEL CSL-046	1 1/4"	40-46	1,20x20	M8/M10	13	64	88	M5x25	1,3	100
FRMEL CSL-053	1 1/2"	48-53	1,20x20	M8/M10	13	70,5	94	M5x25	1,3	50
FRMEL CSL-059	—	54-59	1,50x20	M8/M10	13	81,5	102	M5x25	1,3	50
FRMEL CSL-064	2"	60-64	1,50x20	M8/M10	13	86,5	109	M5x25	1,3	50
FRMEL CSL-083	2 1/2"	72-83	2x25	M8/M10	13	102,5	133	M6x30	2	50
FRMEL CSL-092	3"	87-92	2x25	M8/M10	13	111,5	145	M6x30	2	50
FRMEL CSL-116	4"	102-116	2x25	M8/M10	13	136,5	169	M6x30	2	50
FRMEL CSL-130	—	124-130	2,50x25	M8/M10	13	145,5	178	M6x30	2,5	25
FRMEL CSL-141	5"	132-141	2,50x25	M8/M10	13	161,5	198,5	M6x30	2,5	25
FRMEL CSL-168	6"	159-168	2,50x25	M8/M10	13	189,5	229	M6x30	2,5	25

**Features and Benefits:**

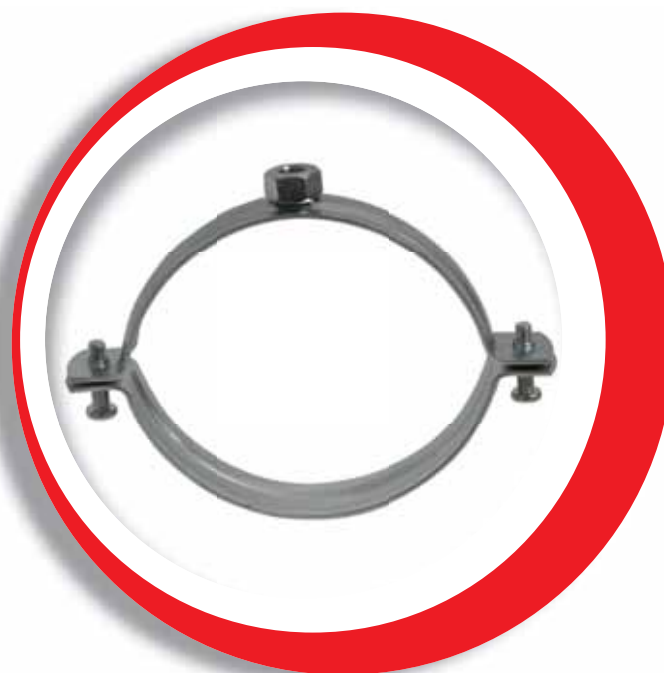
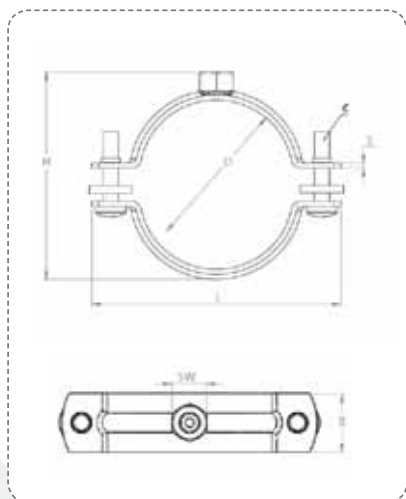
- Material: DIN EN 10130
- Two-piece pipe clamps with lining
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine - free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMS SL08-015	1/4"	12-15	1,50x20	M8	13	26,5	56	M6x18	1	100
FRMS SL08-019	3/8"	15-19	1,50x20	M8	13	29	60	M6x18	1	100
FRMS SL08-024	1/2"	20-24	1,50x20	M8	13	33,5	62	M6x18	1	100
FRMS SL08-028	3/4"	23-28	1,50x20	M8	13	39	70,5	M6x18	1	100
FRMS SL08-036	1"	31-36	1,50x20	M8	13	49,5	79	M6x18	1,3	100
FRMS SL08-044	1 1/4"	38-44	1,50x20	M8	13	53,5	88	M6x18	1,3	100
FRMS SL08-050	1 1/2"	44-50	1,50x20	M8	13	59	94	M6x18	1,3	50
FRMS SL08-054	–	54-58	1,50x20	M8	13	67,5	102	M6x18	1,3	50
FRMS SL08-065	2"	59-65	1,50x20	M8	13	76	109	M6x18	1,3	50
FRMS SL08-067	–	62-67	1,50x20	M8	13	78,5	115	M6x18	2	50
FRMS SL10-080	2 1/2"	74-80	2x25	M10	17	97	133	M6x25	2	50
FRMS SL10-093	3"	83-93	2x25	M10	17	106	145	M6x25	2	50
FRMS SL10-103	–	95-103	2x25	M10	17	116	154	M6x25	2	50
FRMS SL10-118	4"	108-118	2x25	M10	17	131	169	M6x25	2	50
FRMS SL10-127	–	121-127	2x25	M10	17	140	178	M6x25	2	35
FRMS SL10-143	5"	132-143	2x25	M10	17	156	198,5	M6x25	2	35
FRMS SL10-169	6"	159-169	2x25	M10	17	184	229	M6x25	2,5	25
FRMS SL10-202	–	198-202	2x25	M10	17	215	253	M6x25	2,5	25
FRMS SL10-215	–	210-215	2x25	M10	17	228	266	M6x25	2,5	25
FRMS SL10-225	8"	216-225	2x25	M10	17	234	283	M6x25	2,5	25

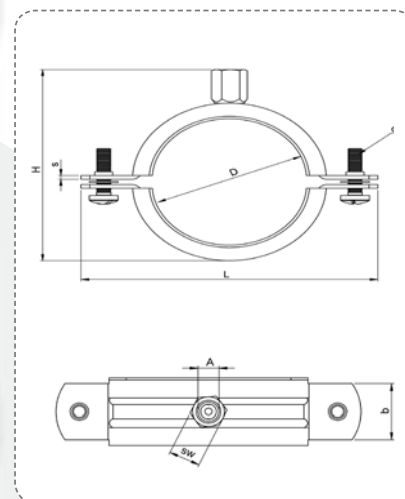


Features and Benefits:

- Material: DIN EN 10130
- Two-screw pipe clamp
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Locking screw: Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMS S08-018	3/8"	14-18	1,50x20	M8	13	29	60	M6x20	1	100
FRMS S08-024	1/2"	20-24	1,50x20	M8	13	33,5	62	M6x20	1	100
FRMS S08-026	3/4"	23-26	1,50x20	M8	13	39	70,5	M6x20	1	100
FRMS S08-035	1"	32-35	1,50x20	M8	13	49,5	79	M6x20	1,3	100
FRMS S08-044	1 1/4"	39-44	1,50x20	M8	13	53,5	88	M6x20	1,3	100
FRMS S08-053	1 1/2"	44-53	1,50x20	M8	13	59	94	M6x20	1,3	50
FRMS S08-065	2"	56-65	1,50x20	M8	13	76	109	M6x20	1,3	50
FRMS S08-069	—	62-69	1,50x20	M8	13	78,5	115	M6x20	2	50
FRMS S10-084	2 1/2"	76-84	2x25	M10	17	97	133	M6x30	2	50
FRMS S10-092	3"	82-92	2x25	M10	17	106	145	M6x30	2	50
FRMS S10-103	—	95-103	2x25	M10	17	116	154	M6x30	2	35
FRMS S10-115	4"	107-115	2x25	M10	17	131	169	M6x30	2	35
FRMS S10-126	—	116-126	2x25	M10	17	140	178	M6x30	2	25
FRMS S10-140	5"	133-140	2x25	M10	17	156	198,5	M6x30	2	25
FRMS S10-168	6"	159-168	2x25	M10	17	184	229	M6x30	2,5	25
FRMS S10-215	8"	207-215	2x25	M10	17	234	283	M6x30	2,5	25



Features and Benefits:

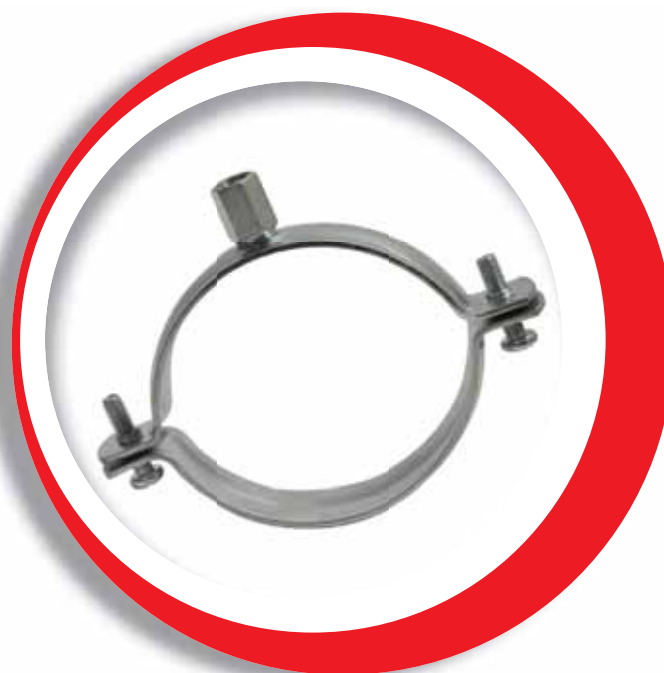
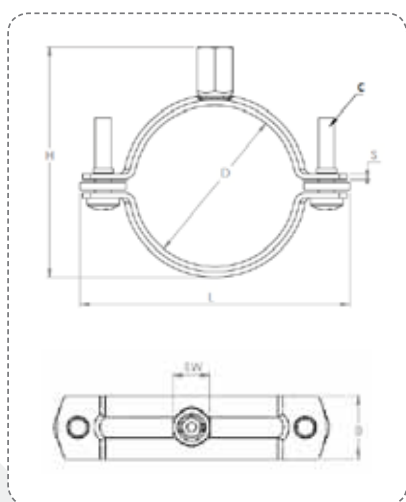
- Material: DIN EN 10130
- Two-piece pipe clamps with lining
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2
- Connecting nut with combination thread M8/M10

Rubber Profile: EPDM

- Extruded profile
- Chlore - free
- Resistant to ozon UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMS CSL-015	1/4"	12-15	1,50x20	M8/M10	13	38	56	M6x18	0,8	100
FRMS CSL-019	3/8"	15-19	1,50x20	M8/M10	13	40,5	60	M6x18	0,8	100
FRMS CSL-024	1/2"	20-24	1,50x20	M8/M10	13	45	62	M6x18	0,8	100
FRMS CSL-028	3/4"	23-28	1,50x20	M8/M10	13	49,5	70,5	M6x18	0,8	100
FRMS CSL-036	1"	31-36	1,50x20	M8/M10	13	60	79	M6x18	1	100
FRMS CSL-044	1 1/4"	38-44	1,50x20	M8/M10	13	64	88	M6x18	1	100
FRMS CSL-050	1 1/2"	44-50	1,50x20	M8/M10	13	70,5	94	M6x18	1	50
FRMS CSL-054	–	54-58	1,50x20	M8/M10	13	81,5	102	M6x18	1	50
FRMS CSL-065	2"	59-65	1,50x20	M8/M10	13	86,5	109	M6x18	1	50
FRMS CSL-067	–	62-67	1,50x20	M8/M10	13	88,5	120	M6x18	1	50
FRMS CSL-080	2 1/2"	74-80	2x25	M8/M10	13	102,5	133	M6x25	1,5	50
FRMS CSL-093	3"	83-93	2x25	M8/M10	13	111,5	145	M6x25	1,5	50
FRMS CSL-103	–	95-103	2x25	M8/M10	13	122	155	M6x25	1,5	50
FRMS CSL-118	4"	108-118	2x25	M8/M10	13	136,5	169	M6x25	1,5	50
FRMS CSL-127	–	121-127	2x25	M8/M10	13	145,5	178	M6x25	1,5	35
FRMS CSL-143	5"	132-143	2x25	M8/M10	13	161,5	198,5	M6x25	1,5	35
FRMS CSL-169	6"	159-169	2x25	M8/M10	13	189,5	229	M6x25	1,5	25
FRMS CSL-202	–	198-202	2x25	M8/M10	13	220,5	262	M6x25	1,5	25
FRMS CSL-215	–	210-215	2x25	M8/M10	13	230	275	M6x25	1,5	25
FRMS CSL-225	8"	216-225	2x25	M8/M10	13	239,5	283	M6x25	1,5	25



Features and Benefits:

- Material: DIN EN 10130
- Two-screw pipe clamp
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMS CS-018	3/8"	14-18	1,50x20	M8/M10	13	29	60	M6x20	1	100
FRMS CS-024	1/2"	20-24	1,50x20	M8/M10	13	33,5	62	M6x20	1	100
FRMS CS-026	3/4"	23-26	1,50x20	M8/M10	13	39	70,5	M6x20	1	100
FRMS CS-035	1"	32-35	1,50x20	M8/M10	13	49,5	79	M6x20	1,3	100
FRMS CS-044	1 1/4"	39-44	1,50x20	M8/M10	13	53,5	88	M6x20	1,3	100
FRMS CS-053	1 1/2"	44-53	1,50x20	M8/M10	13	59	94	M6x20	1,3	50
FRMS CS-065	2"	56-65	1,50x20	M8/M10	13	76	109	M6x20	1,3	50
FRMS CS-069	—	62-69	1,50x20	M8/M10	13	78,5	115	M6x20	2	50
FRMS CS-084	2 1/2"	76-84	2x25	M8/M10	13	97	133	M6x30	2	50
FRMS CS-092	3"	82-92	2x25	M8/M10	13	106	145	M6x30	2	50
FRMS CS-103	—	95-103	2x25	M8/M10	13	116	154	M6x30	2	35
FRMS CS-115	4"	107-115	2x25	M8/M10	13	131	169	M6x30	2	35
FRMS CS-126	—	116-126	2x25	M8/M10	13	140	178	M6x30	2	25
FRMS CS-140	5"	133-140	2x25	M8/M10	13	156	198,5	M6x30	2	25
FRMS CS-168	6"	159-168	2x25	M8/M10	13	184	229	M6x30	2,5	25
FRMS CS-215	8"	207-215	2x25	M8/M10	13	234	283	M6x30	2,5	25



Features and Benefits:

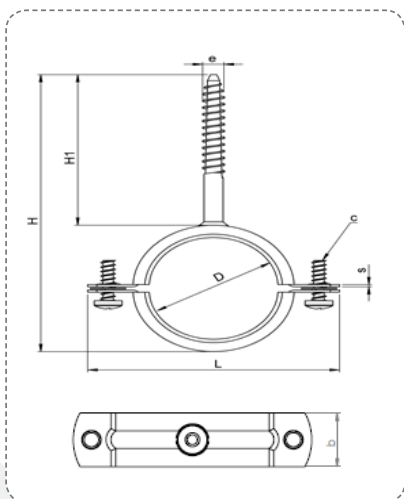
- Material: DIN EN 10130
- Two-piece pipe clamps with welded threaded shoulder woodscrew
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlore - free
- Resistant to ozon UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	H1xe	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMKTL-015	1/4"	12-15	1,20x20	7x70	89	56	M6x18	0,8	100
FRMKTL-019	3/8"	15-19	1,20x20	7x70	93	60	M6x18	0,8	100
FRMKTL-024	1/2"	20-24	1,20x20	7x70	97,5	62	M6x18	0,8	100
FRMKTL-028	3/4"	23-28	1,20x20	7x70	102	70,5	M6x18	0,8	100
FRMKTL-036	1"	31-36	1,20x20	7x70	112,5	79	M6x18	0,8	100
FRMKTL-044	1 1/4"	38-44	1,20x20	7x70	116,5	88	M6x18	0,8	50
FRMKTL-050	1 1/2"	44-50	1,20x20	7x70	123	94	M6x18	0,8	50
FRMKTL-058	—	54-58	1,20x20	7x70	131	102	M6x18	0,8	50
FRMKTL-065	2"	59-65	1,20x20	7x70	139	109	M6x18	0,8	50
FRMKTL-067	—	62-67	1,20x20	7x70	141	120	M6x18	0,8	50
FRMKTL-080	2 1/2"	74-80	1,50x25	7x70	155	133	M6x25	0,8	50

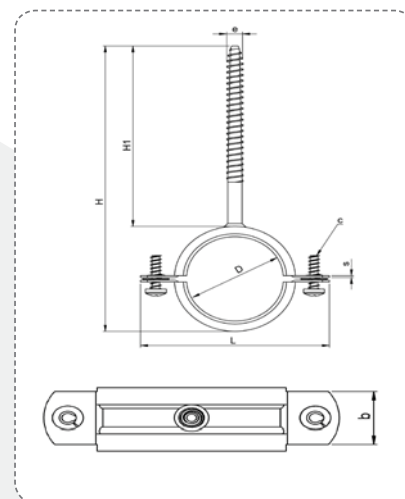


Features and Benefits:

- Material: DIN EN 10130
- Two-piece pipe clamps with welded threaded shoulder woodscrew
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	H1xe	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMKT-018	3/8"	14-18	1,20x20	7x70	93	60	M6x18	0,8	100
FRMKT-024	1/2"	20-24	1,20x20	7x70	97,5	62	M6x18	0,8	100
FRMKT-026	3/4"	23-26	1,20x20	7x70	102	70,5	M6x18	0,8	100
FRMKT-035	1"	32-35	1,20x20	7x70	112,5	79	M6x18	0,8	100
FRMKT-044	1 1/4"	39-44	1,20x20	7x70	116,5	88	M6x18	0,8	50
FRMKT-053	1 1/2"	44-53	1,20x20	7x70	123	94	M6x18	0,8	50
FRMKT-058	—	54-58	1,20x20	7x70	131	102	M6x18	0,8	50
FRMKT-065	2"	56-65	1,20x20	7x70	139	109	M6x18	0,8	50
FRMKT-069	—	62-69	1,20x20	7x70	141	120	M6x18	0,8	50
FRMKT-084	2 1/2"	76-84	1,50x25	7x70	155	133	M6x25	0,8	50



Features and Benefits:

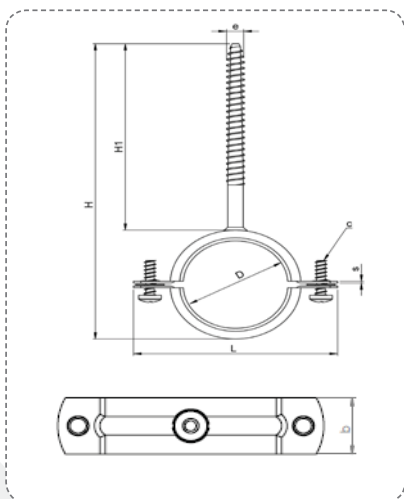
- Material: DIN EN 10130
- Two-piece pipe clamps with welded threaded shoulder woodscrew
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine - free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	H1xe	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMUTL-015	1/4"	12-15	1,20x20	7x100	118,5	56	M6x18	0,8	100
FRMUTL-019	3/8"	15-19	1,20x20	7x100	122,5	60	M6x18	0,8	100
FRMUTL-024	1/2"	20-24	1,20x20	7x100	127	62	M6x18	0,8	100
FRMUTL-028	3/4"	23-28	1,20x20	7x100	131,5	70,5	M6x18	0,8	100
FRMUTL-036	1"	31-36	1,20x20	7x100	142	79	M6x18	0,8	100
FRMUTL-044	1 1/4"	38-44	1,20x20	7x100	146	88	M6x18	0,8	50
FRMUTL-050	1 1/2"	44-50	1,20x20	7x100	152,5	94	M6x18	0,8	50
FRMUTL-058	—	54-58	1,20x20	7x100	160,5	102	M6x18	0,8	50
FRMUTL-065	2"	59-65	1,20x20	7x100	168,5	109	M6x18	0,8	50
FRMUTL-067	—	62-67	1,20x20	7x100	170,5	120	M6x18	0,8	50
FRMUTL-080	2 1/2"	74-80	1,50x25	7x100	184,5	133	M6x25	0,8	50

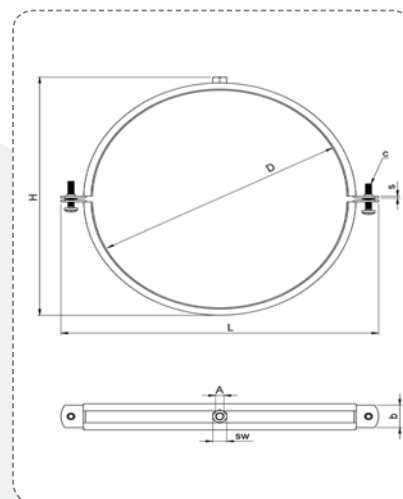
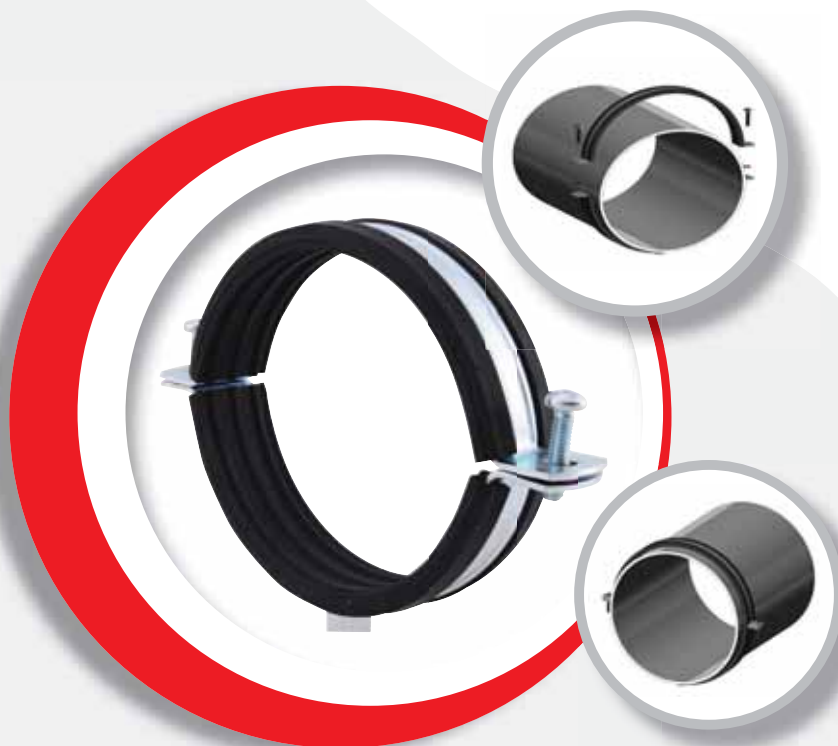


Features and Benefits:

- Material: DIN EN 10130
- Two-piece pipe clamps with welded threaded shoulder woodscrew
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Technical information

Part-No.	Size (Inch)	Tighten Range (mm)	Material Dimension (mm)	H1xe	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMUT-018	3/8"	14-18	1,20x20	7x100	122,5	60	M6x18	0,8	100
FRMUT-024	1/2"	20-24	1,20x20	7x100	127	62	M6x18	0,8	100
FRMUT-028	3/4"	23-26	1,20x20	7x100	131,5	70,5	M6x18	0,8	100
FRMUT-035	1"	32-35	1,20x20	7x100	142	79	M6x18	0,8	100
FRMUT-044	1 1/4"	39-44	1,20x20	7x100	146	88	M6x18	0,8	50
FRMUT-053	1 1/2"	44-53	1,20x20	7x100	152,5	94	M6x18	0,8	50
FRMUT-058	—	54-58	1,20x20	7x100	160,5	102	M6x18	0,8	50
FRMUT-065	2"	56-65	1,20x20	7x100	168,5	109	M6x18	0,8	50
FRMUT-069	—	62-69	1,20x20	7x100	170,5	120	M6x18	0,8	50
FRMUT-084	2 1/2"	76-84	1,50x25	7x100	184,5	133	M6x25	0,8	50

**Features and Benefits:**

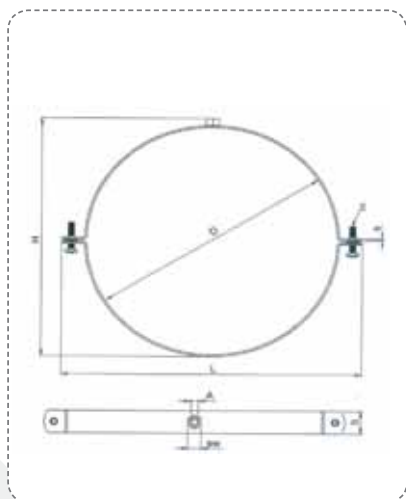
- Material: DIN EN 10130
- Two-piece pipe clamps with lining
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine-free
- Resistant to ozone UV, weather and sea water
- Temperature resistance from - 50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size Ø (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMVD SL-0080	80	1,50x20	M8	13	86	124	M6x25	0,8	50
FRMVD SL-0090	90	1,50x20	M8	13	100	136	M6x25	0,8	50
FRMVD SL-0100	100	1,50x20	M8	13	111	148	M6x25	0,8	50
FRMVD SL-0112	112	1,50x20	M8	13	123	158	M6x25	0,8	50
FRMVD SL-0125	125	1,50x20	M8	13	137	179	M6x25	0,8	25
FRMVD SL-0140	140	1,50x20	M8	13	150	186	M6x25	0,8	25
FRMVD SL-0150	150	1,50x20	M8	13	160	198	M6x25	0,8	25
FRMVD SL-0160	160	1,50x20	M8	13	172	215	M6x25	0,8	25
FRMVD SL-0180	180	1,50x20	M8	13	191	237	M6x25	0,8	25
FRMVD SL-0200	200	1,50x20	M8	13	210	261	M6x25	0,8	25
FRMVD SL-0224	224	2x25	M8	13	237	289	M6x30	0,8	25
FRMVD SL-0250	250	2x25	M8	13	270	305	M6x30	0,8	25
FRMVD SL-0280	280	2x25	M8	13	295	337	M6x30	0,8	25
FRMVD SL-0300	300	2x25	M8	13	315	357	M6x30	0,8	25
FRMVD SL-0315	315	2x25	M8	13	330	372	M6x30	0,8	25
FRMVD SL-0355	355	2x25	M8	13	370	412	M6x30	0,8	25
FRMVD SL-0400	400	2x25	M8	13	415	457	M6x30	0,8	25
FRMVD SL-0450	450	2x25	M8	13	465	520	M6x30	0,8	20
FRMVD SL-0500	500	2x25	M8	13	515	565	M6x30	1	20
FRMVD SL-0560	560	2x25	M8	13	575	625	M6x30	1	20
FRMVD SL-0600	600	2x25	M8	13	615	664	M6x30	1	20
FRMVD SL-0630	630	2x25	M8	13	645	696	M6x30	1	20
FRMVD SL-0710	710	2x25			725	776		1	20
FRMVD SL-0800	800	2x25			815	866		1	10
FRMVD SL-0900	900	2x25			915	966		1	10
FRMVD SL-1000	1000	2x25			1015	1068		1	10
FRMVD SL-1120	1120	2x25			1140	1118		1	10
FRMVD SL-1250	1250	2x25			1270	1318		1	10
FRMVD SL-1400	1400	2x25			1420	1468		1	10

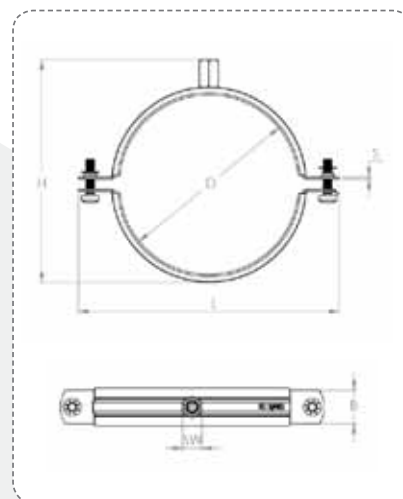
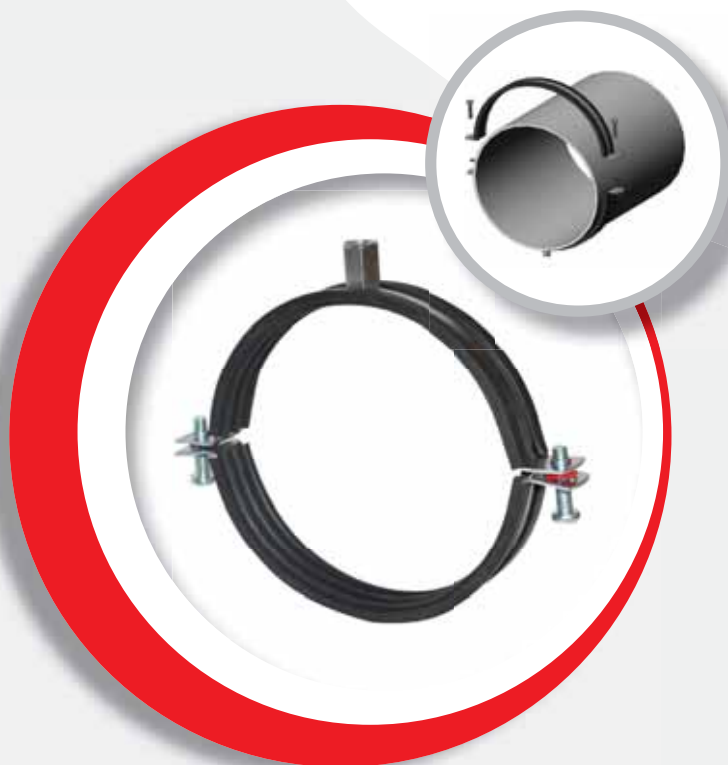


Features and Benefits:

- Material: DIN EN 10130
- Two-piece pipe clamp
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Technical information

Part-No.	Size Ø (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMVD S-0080	80	1,50x20	M8	13	84,5	124	M6x25	0,8	50
FRMVD S-0090	90	1,50x20	M8	13	98,5	136	M6x25	0,8	50
FRMVD S-0100	100	1,50x20	M8	13	109,5	148	M6x25	0,8	50
FRMVD S-0112	112	1,50x20	M8	13	121,5	158	M6x25	0,8	50
FRMVD S-0125	125	1,50x20	M8	13	135,5	179	M6x25	0,8	25
FRMVD S-0140	140	1,50x20	M8	13	148,5	186	M6x25	0,8	25
FRMVD S-0150	150	1,50x20	M8	13	158,5	198	M6x25	0,8	25
FRMVD S-0160	160	1,50x20	M8	13	170,5	215	M6x25	0,8	25
FRMVD S-0180	180	1,50x20	M8	13	189,5	237	M6x25	0,8	25
FRMVD S-0200	200	1,50x20	M8	13	208,5	261	M6x25	0,8	25
FRMVD S-0224	224	2x25	M8	13	235,5	289	M6x30	0,8	25
FRMVD S-0250	250	2x25	M8	13	268,5	305	M6x30	0,8	25
FRMVD S-0280	280	2x25	M8	13	293,5	337	M6x30	0,8	25
FRMVD S-0300	300	2x25	M8	13	313,5	357	M6x30	0,8	25
FRMVD S-0315	315	2x25	M8	13	328,5	372	M6x30	0,8	25
FRMVD S-0355	355	2x25	M8	13	368,5	412	M6x30	0,8	25
FRMVD S-0400	400	2x25	M8	13	413,5	457	M6x30	0,8	25
FRMVD S-0450	450	2x25	M8	13	463,5	520	M6x30	0,8	20
FRMVD S-0500	500	2x25	M8	13	513,5	565	M6x30	1	20
FRMVD S-0560	560	2x25	M8	13	573,5	625	M6x30	1	20
FRMVD S-0600	600	2x25	M8	13	613,5	664	M6x30	1	20
FRMVD S-0630	630	2x25	M8	13	643,5	696	M6x30	1	20
FRMVD S-0710	710	2x25			723,5	776		1	20
FRMVD S-0800	800	2x25			813,5	866		1	10
FRMVD S-0900	900	2x25			913,5	966		1	10
FRMVD S-1000	1000	2x25			1013,5	1068		1	10
FRMVD S-1120	1120	2x25			1138,5	1118		1	10
FRMVD S-1250	1250	2x25			1268,5	1318		1	10
FRMVD S-1400	1400	2x25			1418,5	1468		1	10

**Features and Benefits:**

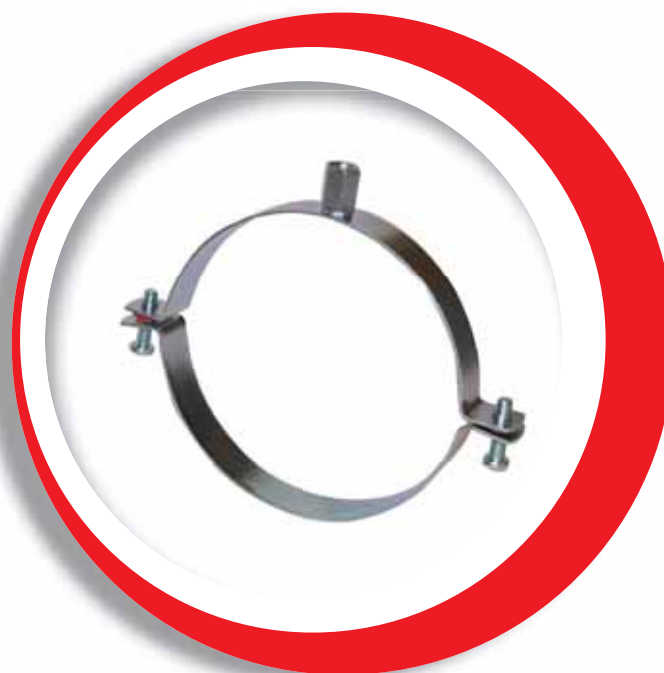
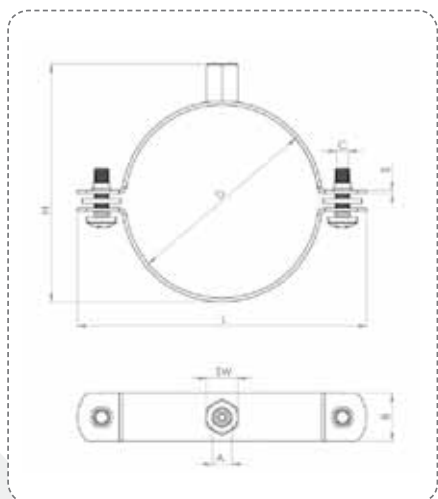
- Material: DIN EN 10130
- Two-piece pipe clamps with lining
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Noise insulating lining EPDM rubber, black
- Also available with silicone rubber (reddish-brown), heat resistance up to +200 °C
- Noise insulation according to DIN 4109
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Rubber Profile: EPDM

- Extruded profile
- Chlorine-free
- Resistant to ozone, UV, weather and sea water
- Temperature resistance from -50°C to 110°C
- Shore A hardness 50±5

Technical information

Part-No.	Size Ø (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMVD CSL-0080	80	1,50x20	M8/M10	13	86	124	M6X25	0,6	50
FRMVD CSL-0090	90	1,50x20	M8/M10	13	100	136	M6X25	0,6	50
FRMVD CSL-0100	100	1,50x20	M8/M10	13	111	148	M6X25	0,6	50
FRMVD CSL-0112	112	1,50x20	M8/M10	13	123	158	M6X25	0,6	50
FRMVD CSL-0125	125	1,50x20	M8/M10	13	137	179	M6X25	0,6	25
FRMVD CSL-0140	140	1,50x20	M8/M10	13	150	186	M6X25	0,6	25
FRMVD CSL-0150	150	1,50x20	M8/M10	13	160	198	M6X25	0,6	25
FRMVD CSL-0160	160	1,50x20	M8/M10	13	172	215	M6X25	0,6	25
FRMVD CSL-0180	180	1,50x20	M8/M10	13	191	237	M6X25	0,6	25
FRMVD CSL-0200	200	1,50x20	M8/M10	13	210	261	M6X25	0,6	25
FRMVD CSL-0224	224	2x25	M8/M10	13	237	289	M6X30	0,6	25
FRMVD CSL-0250	250	2x25	M8/M10	13	270	305	M6X30	0,6	25
FRMVD CSL-0280	280	2x25	M8/M10	13	295	337	M6X30	0,6	25
FRMVD CSL-0300	300	2x25	M8/M10	13	315	357	M6X30	0,6	25
FRMVD CSL-0315	315	2x25	M8/M10	13	330	372	M6X30	0,6	25
FRMVD CSL-0355	355	2x25	M8/M10	13	370	412	M6X30	0,6	25
FRMVD CSL-0400	400	2x25	M8/M10	13	415	457	M6X30	0,6	25
FRMVD CSL-0450	450	2x25	M8/M10	13	465	520	M6X30	0,6	20
FRMVD CSL-0500	500	2x25	M8/M10	13	515	565	M6X30	0,8	20
FRMVD CSL-0560	560	2x25	M8/M10	13	575	625	M6X30	0,8	20
FRMVD CSL-0600	600	2x25	M8/M10	13	615	664	M6X30	0,8	20
FRMVD CSL-0630	630	2x25	M8/M10	13	645	696	M6X30	0,8	20
FRMVD CSL-0710	710	2x25			725	776		0,8	20
FRMVD CSL-0800	800	2x25			815	866		0,8	10
FRMVD CSL-0900	900	2x25			915	966		0,8	10
FRMVD CSL-1000	1000	2x25			1015	1068		0,8	10
FRMVD CSL-1120	1120	2x25			1140	1118		0,8	10
FRMVD CSL-1250	1250	2x25			1270	1318		0,8	10
FRMVD CSL-1400	1400	2x25			1420	1468		0,8	10

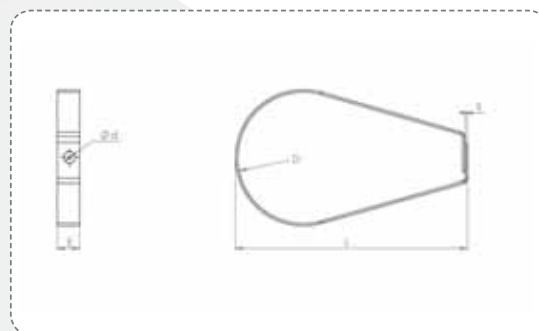
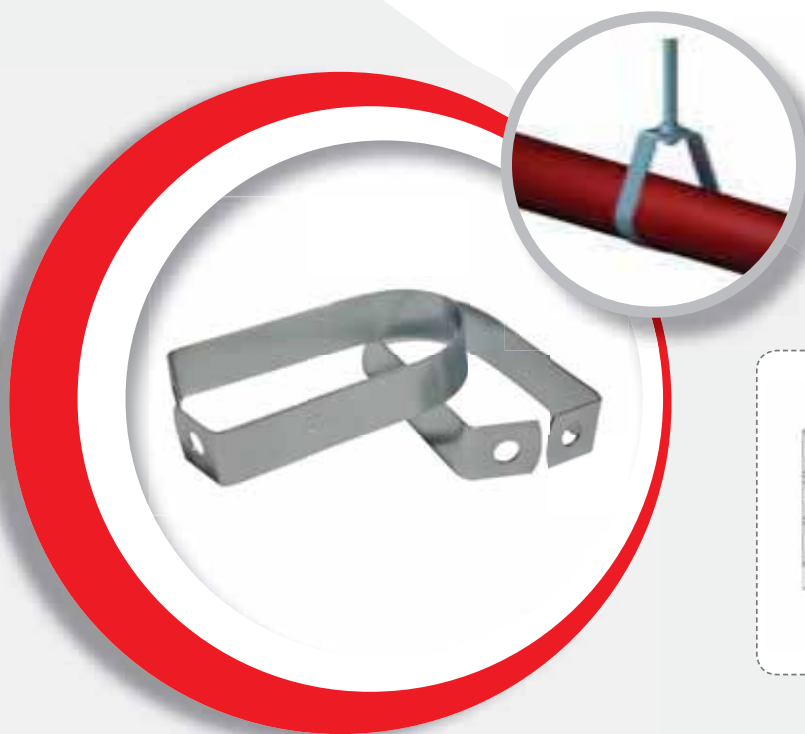


Features and Benefits:

- Material: DIN EN 10130
- Two-piece pipe clamp
- Locking screw secured against loss.
- Better adaptation to different pipe cross sections due to two locking screws.
- Electro zinc plated (5-10µm)
- Locking screw : Flat head screw with combination recessed head
- Fire behavior DIN 4102 class B2

Technical information

Part-No.	Size Ø (mm)	Material Dimension (mm)	Hanging Nuts (A)	SW	H	L	Connection Screw (C)	Recommended Load (kN)	Pack (pcs.)
FRMVD CS-0080	80	1,50x20	M8/M10	13	84,5	124	M6X25	0,6	50
FRMVD CS-0090	90	1,50x20	M8/M10	13	98,5	136	M6X25	0,6	50
FRMVD CS-0100	100	1,50x20	M8/M10	13	109,5	148	M6X25	0,6	50
FRMVD CS-0112	112	1,50x20	M8/M10	13	121,5	158	M6X25	0,6	50
FRMVD CS-0125	125	1,50x20	M8/M10	13	135,5	179	M6X25	0,6	25
FRMVD CS-0140	140	1,50x20	M8/M10	13	148,5	186	M6X25	0,6	25
FRMVD CS-0150	150	1,50x20	M8/M10	13	158,5	198	M6X25	0,6	25
FRMVD CS-0160	160	1,50x20	M8/M10	13	170,5	215	M6X25	0,6	25
FRMVD CS-0180	180	1,50x20	M8/M10	13	189,5	237	M6X25	0,6	25
FRMVD CS-0200	200	1,50x20	M8/M10	13	208,5	261	M6X25	0,6	25
FRMVD CS-0224	224	2x25	M8/M10	13	235,5	289	M6X30	0,6	25
FRMVD CS-0250	250	2x25	M8/M10	13	268,5	305	M6X30	0,6	25
FRMVD CS-0280	280	2x25	M8/M10	13	293,5	337	M6X30	0,6	25
FRMVD CS-0300	300	2x25	M8/M10	13	313,5	357	M6X30	0,6	25
FRMVD CS-0315	315	2x25	M8/M10	13	328,5	372	M6X30	0,6	25
FRMVD CS-0355	355	2x25	M8/M10	13	368,5	412	M6X30	0,6	25
FRMVD CS-0400	400	2x25	M8/M10	13	413,5	457	M6X30	0,6	25
FRMVD CS-0450	450	2x25	M8/M10	13	463,5	520	M6X30	0,6	20
FRMVD CS-0500	500	2x25	M8/M10	13	513,5	565	M6X30	0,8	20
FRMVD CS-0560	560	2x25	M8/M10	13	573,5	625	M6X30	0,8	20
FRMVD CS-0600	600	2x25	M8/M10	13	613,5	664	M6X30	0,8	20
FRMVD CS-0630	630	2x25	M8/M10	13	643,5	696	M6X30	0,8	20
FRMVD CS-0710	710	2x25			723,5	776		0,8	20
FRMVD CS-0800	800	2x25			813,5	866		0,8	10
FRMVD CS-0900	900	2x25			913,5	966		0,8	10
FRMVD CS-1000	1000	2x25			1013,5	1068		0,8	10
FRMVD CS-1120	1120	2x25			1138,5	1118		0,8	10
FRMVD CS-1250	1250	2x25			1268,5	1318		0,8	10
FRMVD CS-1400	1400	2x25			1418,5	1468		0,8	10

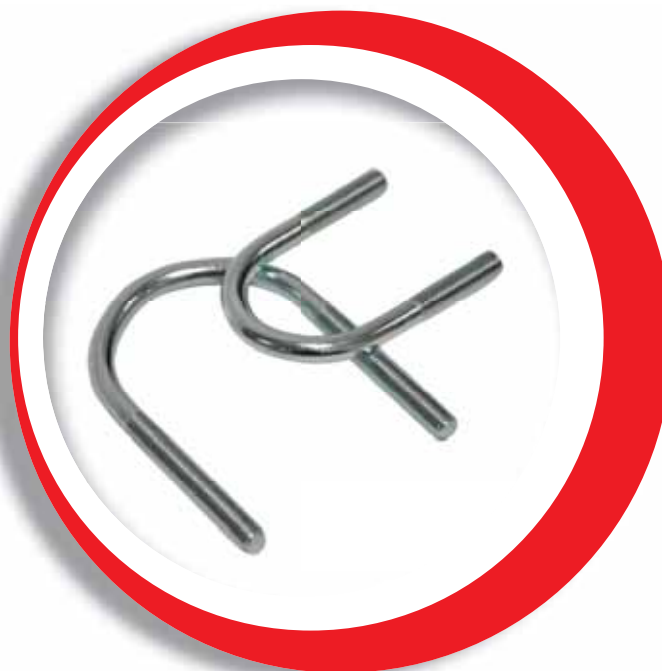
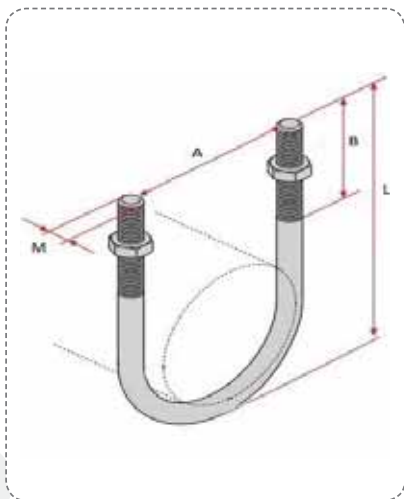


Features:

- Pipe hanger element.
- Are used for freely hanging pipes and fire extinguishing systems horizontally
- Height adjustment through threaded rods
- Electro galvanized against corrosion resistance (min. 5-10 µm)
- Material: DIN EN10130

Technical information

Part-No.	Size (Inch)	Ø D (mm)	L (mm)	E (mm)	Material Dimension (mm)	Ø d (mm)	Recommended Load (kN)	Pack (pcs.)
FRMSP015	1/2"	28	51,5	36,5	1x25	10,5	1,5	150
FRMSP020	3/4"	30	53,5	37,5	1x25	10,5	1,5	100
FRMSP025	1"	36	65,5	46,5	1x25	10,5	1,5	100
FRMSP032	1 1/4"	46	79,9	55,7	1,20x25	10,5	1,5	50
FRMSP040	1 1/2"	52	85,9	58,7	1,20x25	10,5	1,5	50
FRMSP050	2"	66	99,9	65,7	1,20x25	10,5	1,5	50
FRMSP065	2 1/2"	78	116	75,5	1,50x25	10,5	3,9	25
FRMSP080	3"	92	132	84,5	1,50x25	10,5	3,9	25
FRMSP100	4"	116	167,5	107,5	2x25	10,5	3,9	25
FRMSP125	5"	142	200	126,5	2,50x25	13	7,5	25
FRMSP150	6"	170	238	150,5	2,50x25	13	7,5	25
FRMSP200	8"	222	311,5	197,5	3x30	17	13	15
FRMSP250	10"	275	384,5	244	3x30	17	13	10

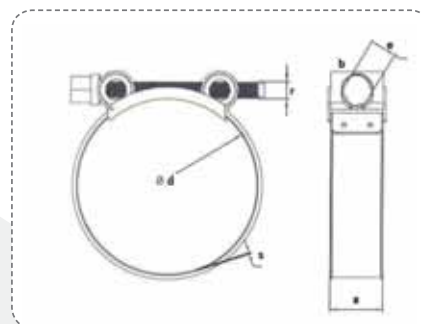


Features:

- Material: Carbon Steel
- It is appropriate for industrial usage.
- Can be directly mounted to the profiles and channels.
- Used as a suspension for horizontal/ vertical fixing systems.
- Electro galvanized for corrosion resistance (min. 5-10 μm)

Technical information

Part-No.	Size (Inch)	Pipe Ø (mm)	L (mm)	A (mm)	B (mm)	M (mm)	Pack (pcs.)
FRMUB-010	3/8"	17,3	42	20	20	M6	500
FRMUB-015	1/2"	21,3	50	24	30	M6	500
FRMUB-020	3/4"	26,9	60	30	30	M6	500
FRMUB-025	1"	33,7	70	36	30	M8	500
FRMUB-032	1 1/4"	42,4	80	46	40	M8	250
FRMUB-040	1 1/2"	48,3	90	52	50	M8	200
FRMUB-050	2"	60,3	100	64	50	M10	150
FRMUB-065	2 1/2"	76,1	120	78	50	M10	75
FRMUB-080	3"	88,9	140	94	60	M12	50
FRMUB-088	3 1/2"	101,6	150	106	65	M12	25
FRMUB-100	4"	114,3	160	118	65	M12	25
FRMUB-125	5"	139,7	200	146	65	M12	25
FRMUB-150	6"	165,3	220	172	90	M16	20
FRMUB-200	8"	219,1	270	224	90	M16	20
FRMUB-250	10"	273,0	334	278	100	M16	10
FRMUB-300	12"	324,0	380	328	100	M16	10
FRMUB-350	14"	355,6	413	360	100	M16	5
FRMUB-400	16"	406,4	470	412	120	M20	5
FRMUB-450	18"	457,0	520	464	120	M20	5
FRMUB-500	20"	508,0	582	514	120	M24	5



PLATING W1

Yellow – Standard

Light blue - Optional

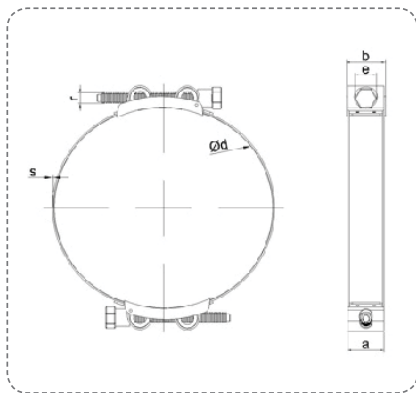
Chrome VI - Free

Features & Benefits:

Material	Band	Bolt
W1	DIN 1624 Zn Plated	20 MnB4 Zn plated
W2	AISI 430 Stainless Steel	20 MnB4 Zn plated
W4	AISI 304 Stainless Steel	AISI 304 Stainless Steel

Technical information

Size (mm)	Part-No.			r (mm)	e (mm)	a (mm)	b (mm)	s (mm)	Pack (pcs)
	W1	W2	W4						
17*19	FRMHD-113	FRMHD-213	FRMHD-413	M6	8	18	19,80	0,80	50
19*21	FRMHD-114	FRMHD-214	FRMHD-414						50
21*23	FRMHD-115	FRMHD-215	FRMHD-415						50
23*25	FRMHD-116	FRMHD-216	FRMHD-416						50
25*27	FRMHD-117	FRMHD-217	FRMHD-417						50
27*29	FRMHD-118	FRMHD-218	FRMHD-418						50
29*31	FRMHD-119	FRMHD-219	FRMHD-419	M7	10	20	22	1	50
31*34	FRMHD-120	FRMHD-220	FRMHD-420						50
34*37	FRMHD-121	FRMHD-221	FRMHD-421						50
37*40	FRMHD-122	FRMHD-222	FRMHD-422						50
40*43	FRMHD-123	FRMHD-223	FRMHD-423						50
43*47	FRMHD-124	FRMHD-224	FRMHD-424						50
47*51	FRMHD-125	FRMHD-225	FRMHD-425						50
51*55	FRMHD-126	FRMHD-226	FRMHD-426						25
55*59	FRMHD-127	FRMHD-227	FRMHD-427						25
59*63	FRMHD-128	FRMHD-228	FRMHD-428						25
63*68	FRMHD-129	FRMHD-229	FRMHD-429	M8	13	25	27,50	1,20	25
68*73	FRMHD-130	FRMHD-230	FRMHD-430						25
73*79	FRMHD-131	FRMHD-231	FRMHD-431						25
79*85	FRMHD-132	FRMHD-232	FRMHD-432						25
85*91	FRMHD-133	FRMHD-233	FRMHD-433						25
91*97	FRMHD-134	FRMHD-234	FRMHD-434						25
97*104	FRMHD-135	FRMHD-235	FRMHD-435						25
104*112	FRMHD-136	FRMHD-236	FRMHD-436						25
112*121	FRMHD-137	FRMHD-237	FRMHD-437						25
121*130	FRMHD-138	FRMHD-238	FRMHD-438						25
130*140	FRMHD-139	FRMHD-239	FRMHD-439	M10	15	28	31	1,50	10
140*150	FRMHD-140	FRMHD-240	FRMHD-440						10
150*162	FRMHD-141	FRMHD-241	FRMHD-441						10
162*174	FRMHD-142	FRMHD-242	FRMHD-442						10
174*187	FRMHD-143	FRMHD-243	FRMHD-443						10
187*200	FRMHD-144	FRMHD-244	FRMHD-444						10
200*213	FRMHD-145	FRMHD-245	FRMHD-445						10
213*226	FRMHD-146	FRMHD-246	FRMHD-446						10
226*239	FRMHD-147	FRMHD-247	FRMHD-447						10
239*252	FRMHD-148	FRMHD-248	FRMHD-448						10



PLATING W1

Yellow – Standard

Light blue - Optional

Chrome VI - Free

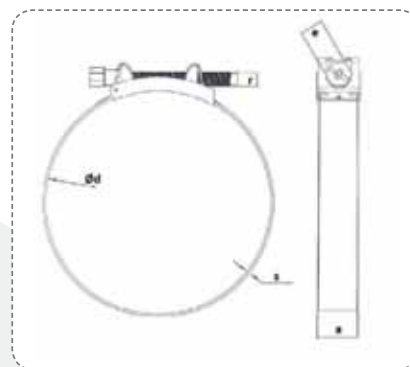


Features & Benefits:

Material	Band	Bolt
W1	DIN 1624 Zn Plated	20 MnB4 Zn plated
W2	AISI 430 Stainless Steel	20 MnB4 Zn plated
W4	AISI 304 Stainless Steel	AISI 304 Stainless Steel

Technical information

Size (mm)	Part-No.			r (mm)	e (mm)	a (mm)	b (mm)	s (mm)	Pack (pcs)
	W1	W2	W4						
59*67	FRMDHD-111	FRMDHD-211	FRMDHD-411	M7	10	20	22	1	50
67*75	FRMDHD-112	FRMDHD-212	FRMDHD-412						50
75*83	FRMDHD-113	FRMDHD-213	FRMDHD-413						50
83*91	FRMDHD-114	FRMDHD-214	FRMDHD-414						50
88*100	FRMDHD-115	FRMDHD-215	FRMDHD-415	M8	13	25	27,5	1,20	25
100*116	FRMDHD-116	FRMDHD-216	FRMDHD-416						25
116*136	FRMDHD-117	FRMDHD-217	FRMDHD-417						25
136*156	FRMDHD-118	FRMDHD-218	FRMDHD-418						25
156*180	FRMDHD-119	FRMDHD-219	FRMDHD-419						25
125*145	FRMDHD-120	FRMDHD-220	FRMDHD-420	M10	15	28	31	1,50	10
145*168	FRMDHD-121	FRMDHD-221	FRMDHD-421						10
168*193	FRMDHD-122	FRMDHD-222	FRMDHD-422						10
193*220	FRMDHD-123	FRMDHD-223	FRMDHD-423						10
220*245	FRMDHD-124	FRMDHD-224	FRMDHD-424						10
245*270	FRMDHD-125	FRMDHD-225	FRMDHD-425						10
270*295	FRMDHD-126	FRMDHD-226	FRMDHD-426						10
295*320	FRMDHD-127	FRMDHD-227	FRMDHD-427						10
320*345	FRMDHD-128	FRMDHD-228	FRMDHD-428						10



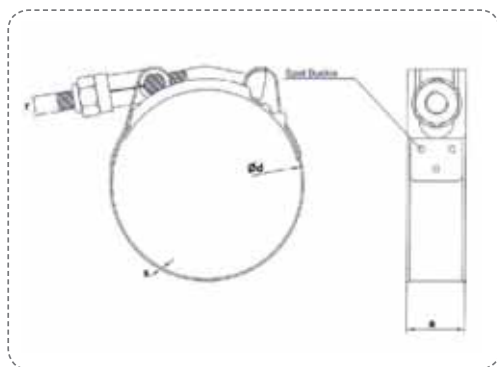
Features & Benefits:

- Provide secure torque and accurate sealing
- Alternative to the adjustable clamps

Material	Band	Bolt
W2	AISI 430 Stainless Steel	20 MnB4 Zn plated

Technical information

Part-No.	Size (mm)	r (mm)	a (mm)	s (mm)	Pack (pcs)
FRMLHD-494	16*19	M5 (8.8)	14	0,60	100
FRMLHD-495	18*21				100
FRMLHD-496	20*23				100
FRMLHD-497	22*25				100
FRMLHD-498	24*27				100
FRMLHD-499	26*30				100
FRMLHD-500	29*33			0,80	100
FRMLHD-501	32*36				100
FRMLHD-502	35*40				100
FRMLHD-503	38*43				100
FRMLHD-504	41*48				100
FRMLHD-505	44*51				100
FRMLHD-506	48*56				100
FRMLHD-507	51*59				100
FRMLHD-508	54*62				100
FRMLHD-509	57*65				100
FRMLHD-510	60*68				100
FRMLHD-511	63*72				100
FRMLHD-512	67*75				100
FRMLHD-513	70*78				100
FRMLHD-514	73*81				100
FRMLHD-515	76*84				100
FRMLHD-516	78*86				100
FRMLHD-517	79*87				50
FRMLHD-518	82*91				50
FRMLHD-519	86*94				50
FRMLHD-520	89*97				50
FRMLHD-521	90*98				50
FRMLHD-522	92*100				50
FRMLHD-523	95*103				50
FRMLHD-524	101*110				50
FRMLHD-525	103*111				50
FRMLHD-526	105*113				50
FRMLHD-527	108*116				50
FRMLHD-528	114*122				50
FRMLHD-529	116*124				50
FRMLHD-530	121*129				50
FRMLHD-531	127*135				50
FRMLHD-532	133*141				50
FRMLHD-533	140*148				50
FRMLHD-534	146*154				50
FRMLHD-535	152*160				50
FRMLHD-536	159*167				50
FRMLHD-537	165*173				50
FRMLHD-538	171*180				50
FRMLHD-539	178*186				50
FRMLHD-540	184*192				50
FRMLHD-541	190*198				50
FRMLHD-542	197*205				50
FRMLHD-543	203*211				50
FRMLHD-544	210*218				50
FRMLHD-545	216*224				50



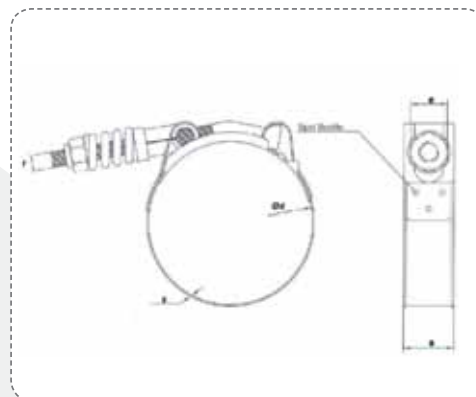
Features & Benefits:

- Working according to the bolt-nut logic and used at high pressure points

Material	Band	Bolt
W2	AISI 430 Stainless Steel	20 MnB4 Zn plated
W4	AISI 304 Stainless Steel	20 MnB4 Delta Protekt plated

Technical information

Size (mm)	Part-No.		r (mm)	a (mm)	s (mm)	Pack (pcs)
	W2	W4				
32*36	FRMTB-211	FRMTB-411	1/4 (8.8)	19	0,80	100
35*40	FRMTB-212	FRMTB-412				100
38*43	FRMTB-213	FRMTB-413				100
41*48	FRMTB-214	FRMTB-414				100
44*51	FRMTB-215	FRMTB-415				100
48*56	FRMTB-216	FRMTB-416				100
51*59	FRMTB-217	FRMTB-417				100
54*62	FRMTB-218	FRMTB-418				100
57*65	FRMTB-219	FRMTB-419				100
60*68	FRMTB-220	FRMTB-420				100
63*72	FRMTB-221	FRMTB-421				100
67*75	FRMTB-222	FRMTB-422				100
70*78	FRMTB-223	FRMTB-423				100
73*81	FRMTB-224	FRMTB-424				100
76*84	FRMTB-225	FRMTB-425				100
78*86	FRMTB-226	FRMTB-426				100
79*87	FRMTB-227	FRMTB-427				100
82*91	FRMTB-228	FRMTB-428				100
86*94	FRMTB-229	FRMTB-429				100
89*97	FRMTB-230	FRMTB-430				100
90*98	FRMTB-231	FRMTB-431				100
92*100	FRMTB-232	FRMTB-432				100
95*103	FRMTB-233	FRMTB-433				100
101*110	FRMTB-234	FRMTB-434				50
103*111	FRMTB-235	FRMTB-435				50
105*113	FRMTB-236	FRMTB-436				50
108*116	FRMTB-237	FRMTB-437				50
114*122	FRMTB-238	FRMTB-438				50
116*124	FRMTB-239	FRMTB-439				50
121*129	FRMTB-240	FRMTB-440				50
127*135	FRMTB-241	FRMTB-441				50
133*141	FRMTB-242	FRMTB-442				50
140*148	FRMTB-243	FRMTB-443				50
146*154	FRMTB-244	FRMTB-444				50
152*160	FRMTB-245	FRMTB-445				50
159*167	FRMTB-246	FRMTB-446				50
165*173	FRMTB-247	FRMTB-447				50
171*180	FRMTB-248	FRMTB-448				50
178*186	FRMTB-249	FRMTB-449				50
184*192	FRMTB-250	FRMTB-450				50
190*198	FRMTB-251	FRMTB-451				50
197*205	FRMTB-252	FRMTB-452				50
203*211	FRMTB-253	FRMTB-453				50
210*218	FRMTB-254	FRMTB-454				50
216*224	FRMTB-255	FRMTB-455				50

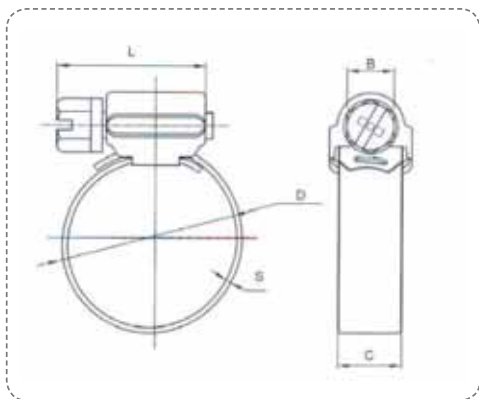
**Features and Benefits:**

- Reduce Vibration
- Absorb excellently change on the hose
- Resistant to enormous pressure and temperature changes

Material	Band	Bolt
W2	AISI 430 Stainless Steel	20 MnB4 Zn plated
W4	AISI 304 Stainless Steel	20 MnB4 Delta Protekt plated

Technical information

Size (mm)	Part-No.		r (mm)	a (mm)	s (mm)	Pack (pcs)
	W2	W4				
54*62	FRMYTB-218	FRMYTB-418	1/4 (8.8)	19	0,80	100
57*65	FRMYTB-219	FRMYTB-419				100
60*68	FRMYTB-220	FRMYTB-420				100
63*72	FRMYTB-221	FRMYTB-421				100
67*75	FRMYTB-222	FRMYTB-422				100
70*78	FRMYTB-223	FRMYTB-423				100
73*81	FRMYTB-224	FRMYTB-424				100
76*84	FRMYTB-225	FRMYTB-425				100
78*86	FRMYTB-226	FRMYTB-426				100
79*87	FRMYTB-227	FRMYTB-427				100
82*91	FRMYTB-228	FRMYTB-428				100
86*94	FRMYTB-229	FRMYTB-429				100
89*97	FRMYTB-230	FRMYTB-430				100
90*98	FRMYTB-231	FRMYTB-431				100
92*100	FRMYTB-232	FRMYTB-432				100
95*103	FRMYTB-233	FRMYTB-433				100
101*110	FRMYTB-234	FRMYTB-434				50
103*111	FRMYTB-235	FRMYTB-435				50
105*113	FRMYTB-236	FRMYTB-436				50
108*116	FRMYTB-237	FRMYTB-437				50
114*122	FRMYTB-238	FRMYTB-438				50
116*124	FRMYTB-239	FRMYTB-439				50
121*129	FRMYTB-240	FRMYTB-440				50
127*135	FRMYTB-241	FRMYTB-441				50
133*141	FRMYTB-242	FRMYTB-442				50
140*148	FRMYTB-243	FRMYTB-443				50
146*154	FRMYTB-244	FRMYTB-444				50
152*160	FRMYTB-245	FRMYTB-445				50
159*167	FRMYTB-246	FRMYTB-446				50
165*173	FRMYTB-247	FRMYTB-447				50
171*180	FRMYTB-248	FRMYTB-448				50
178*186	FRMYTB-249	FRMYTB-449				50
184*192	FRMYTB-250	FRMYTB-450				50
190*198	FRMYTB-251	FRMYTB-451				50
197*205	FRMYTB-252	FRMYTB-452				50
203*211	FRMYTB-253	FRMYTB-453				50
210*218	FRMYTB-254	FRMYTB-454				50
216*224	FRMYTB-255	FRMYTB-455				50



Features and Benefits:

- Band width 8.5 mm
- Perforated Band
- Philips head SW7 
- No chromium (VI) used for the coating on the closure components.

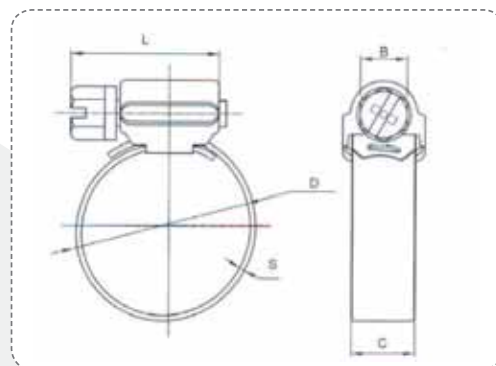
Technical information

Part-No.	ØD (mm)	S ±0,5	c ±0,3	L ±1	B ±0,2	Pack (pcs)
FRM PTS-012	8-12	0,60	8,50	19,50	7	1000
FRM PTS-016	10-16					1000
FRM PTS-019	13-19	0,70				1000
FRM PTS-020	12-20					1000
FRM PTS-025	16-25					1000

Material	Band	Housing	Screw	Size ØD (mm)	AD	BD
W1	DC01 Special Steel Material No. 1.0330 Salt Spray Test: 72h	DC01 Special Steel Material No. 1.0330 Salt Spray Test: 72h	20MnB4 Zn plated Salt Spray Test: 72h	8-12...16-25	2,5 Nm	4,0 Nm

Salt Spray test is being applied according to ASTM B 117
Idling torque max. 0,5 Nm

AD: Recommended tightening torque
BD: Failure torque



Features:

- Band width 10 mm
- Perforated Band
- Philips head SW7 
- No chromium (VI) used for the coating on the closure components.

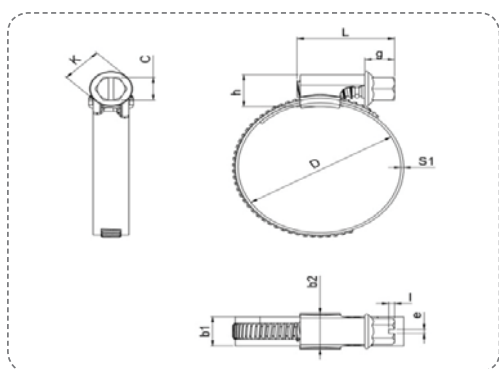
Technical information

Part-No.	ØD (mm)	S ±0,5	C ±0,3	L ±1	B ±0,2	Pack (pcs)
FRM PT-026	19-26	0,80	10	25,00	7	1000
FRM PT-032	20-32					1000
FRM PT-035	23-35					800
FRM PT-040	25-40					700
FRM PT-048	28-48					600
FRM PT-045	30-45					600
FRM PT-050	32-50					600
FRM PT-060	40-60					400
FRM PT-064	44-64					400
FRM PT-070	50-70					400
FRM PT-080	60-80					300
FRM PT-090	70-90					100
FRM PT-100	80-100					100
FRM PT-110	90-110					100
FRM PT-120	100-120					50
FRM PT-130	110-130					50
FRM PT-135	115-135					50
FRM PT-140	120-140					50
FRM PT-150	130-150					50
FRM PT-160	140-160					50
FRM PT-164	146-164					50
FRM PT-170	150-170					50
FRM PT-180	160-180					50
FRM PT-190	170-190					50
FRM PT-200	180-200					25
FRM PT-210	190-210					25
FRM PT-220	200-220					25
FRM PT-230	210-230					25
FRM PT-240	220-240					25
FRM PT-250	230-250					25
FRM PT-260	240-260					25
FRM PT-270	250-270					25

Material	Band	Housing	Screw	Size ØD (mm)	AD	BD
W1	DC01 Special Steel Material No. 1.0330 Salt Spray Test: 72h	DC01 Special Steel Material No. 1.0330 Salt Spray Test: 72h	20MnB4 Zn plated Salt Spray Test:72h	19-26 44- 64 50-70250-270	4 Nm 4 Nm	5 Nm 6 Nm

Salt Spray test is being applied according to ASTM B 117
Idling torque max. 1,0 Nm

AD: Recommended tightening torque
BD: Failure torque



Features:

- Band width 9 mm
- With stamped inside
- Philips head SW7 
- No chromium (VI) used for the coating on the closure components.

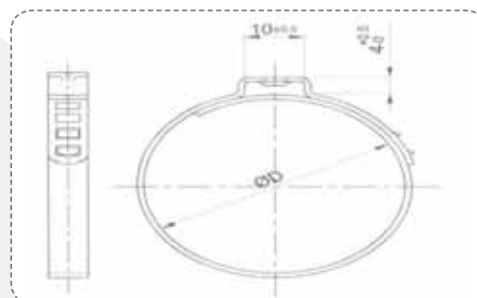
Technical information

Part-No.	ØD (mm)	L ±0,5	s1 ±0,03	b1 ±0,2	c -0,1	e ±0,1	g ±0,3	h ±0,3	i ±0,1	k ±0,3	b2 ±0,3	Pack (pcs)
FRMCT NP09-016	10-16	25	0,70	9,00	7,00	1,30	7,00	9,70	1,50	10,80	11,70	1000
FRMCT NP09-020	12-20											1000
FRMCT NP09-022	12-22											1000
FRMCT NP09-025	16-25											1000
FRMCT NP09-027	16-27											1000
FRMCT NP09-032	20-32											1000
FRMCT NP09-035	23-35											1000
FRMCT NP09-040	25-40	1000										
FRMCT NP09-045	30-45	500										
FRMCT NP09-050	32-50	500										
FRMCT NP09-060	40-60	250										
FRMCT NP09-070	50-70	250										
FRMCT NP09-080	60-80	250										
FRMCT NP09-090	70-90	250										
FRMCT NP09-100	80-100	200										
FRMCT NP09-110	90-110	200										
FRMCT NP09-120	100-120	200										
FRMCT NP09-130	110-130	200										
FRMCT NP09-140	120-140	200										
FRMCT NP09-150	130-150	200										
FRMCT NP09-160	140-160	200										

Material	Band	Housing	Screw	Size ØD (mm)	AD	BD
W2B	AISI 430 Stainless Steel Material No.1.4016 Salt Spray Test: 72h	D03 Special Steel Material No.1.0347 Salt Spray Test: 72h	C22B Zinc plated Special Process Material No.1.0402 Salt Spray Test: 72h	10-16.....20-32 23-3540-60 50-70.....140-160	3,5 Nm 4,0 Nm 4,5 Nm	4 Nm 5 Nm 6 Nm
W2	AISI 430 Stainless Steel Material No.1.4016 Salt Spray Test: 72h	AISI 430 Stainless Steel Material No.1.4016 Salt Spray Test: 72h	C22B Zinc plated Special Process Material No.1.0402 Salt Spray Test: 72h	10-16.....20-32 23-3540-60 50-70.....140-160	3,5 Nm 4,0 Nm 4,5 Nm	4 Nm 5 Nm 6 Nm
W3	AISI 430 Stainless Steel Material No.1.4016 Salt Spray Test: 200h	AISI 430 Stainless Steel Material No.1.4016 Salt Spray Test: 200h	AISI 430 Stainless Steel Material No.1.4016 Salt Spray Test: 200h	10-16.....20-32 23-3540-60 50-70.....140-160	3,5 Nm 4,0 Nm 4,5 Nm	4 Nm 5 Nm 6 Nm
W4	AISI 304 Antimagnetic Stainless Steel Material No. 1.4301 Salt Spray Test: 400h	AISI 304 Antimagnetic Stainless Steel Material No. 1.4301 Salt Spray Test: 400h	AISI 304 Antimagnetic Stainless Steel Material No. 1.4301 Salt Spray Test: 400h	10-16.....20-32 23-3540-60 50-70.....140-160	3,5 Nm 4,0 Nm 4,5 Nm	4 Nm 5 Nm 6 Nm

Salt Spray test is being applied according to ASTM B 117
Idling torque max. 0,5 Nm

AD: Recommended tightening torque
BD: Failure torque



Technical information

Part-No.	ØD (mm)	Pack (pcs)	Band Width (mm)
FRMEC07-017	17,5	1000	7
FRMEC07-026	26	1000	
FRMEC07-029	29	1000	
FRMEC07-031	31	1000	
FRMEC07-033	33	1000	
FRMEC07-035	35	1000	
FRMEC07-037	37	1000	
FRMEC07-039	39	1000	
FRMEC07-044	44	1000	
FRMEC07-055	55	1000	
FRMEC07-065	65	700	
FRMEC07-070	70	500	
FRMEC07-074	74	500	
FRMEC07-082	82	400	
FRMEC07-085	85	400	
FRMEC07-087	87	400	
FRMEC07-088	88	400	
FRMEC07-092	92	400	
FRMEC07-094	94	400	
FRMEC07-097	97	300	
FRMEC07-103	103	300	
FRMEC07-105	105	300	

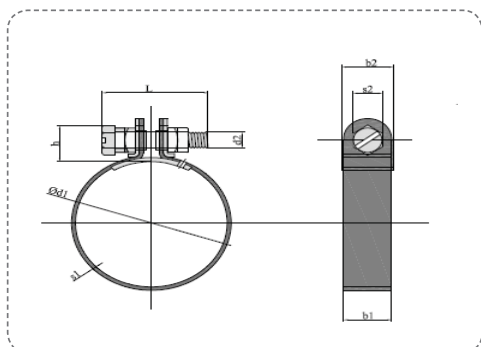
Technical information

Part-No.	ØD (mm)	Pack (pcs)	Band Width (mm)
FRMEC09-025	25	1000	9
FRMEC09-026	26	1000	
FRMEC09-029	29	1000	
FRMEC09-031	31	1000	
FRMEC09-033	33	1000	
FRMEC09-035	35	1000	
FRMEC09-037	37	1000	
FRMEC09-039	39	1000	
FRMEC09-044	44	1000	
FRMEC09-055	55	600	
FRMEC09-065	65	500	
FRMEC09-070	70	500	
FRMEC09-074	74	400	
FRMEC09-082	82	300	
FRMEC09-085	85	300	
FRMEC09-087	87	300	
FRMEC09-088	88	300	
FRMEC09-092	92	300	
FRMEC09-094	94	300	
FRMEC09-097	97	250	
FRMEC09-103	103	250	
FRMEC09-105	105	200	

* Special dimensions can be produced on demand

Material	Band	Housing
W1	Band Band Width Band Thickness Salt Spray Resistance	Galvanized sheet iron Material No. 1.0226 7 mm - 9 mm 0,75 mm - 1 mm 72h
W4	Band Band Width Band Thickness Salt Spray Resistance	AISI 304 Antimagnetic Stainless Steel Material No. 1.4301 7 mm - 9 mm 0,75 mm - 1 mm 400h

Salt Spray test is being applied according to ASTM B 117

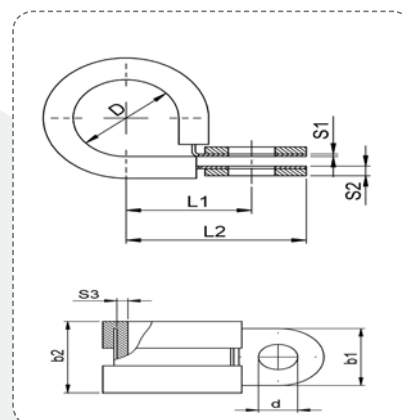


Features:

- In accordance to DIN 3017-2
- Material: W1
- High clamping forces
- Optimum sealing advantages
- Excellent hose protection by inner support during hose installation

Technical information

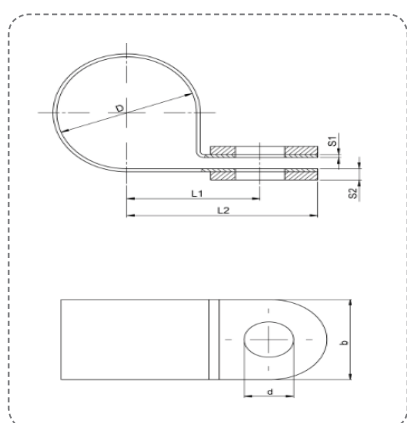
Material Width (mm) b1 ±0.3	b2 max. (mm)	h max. (mm)	Material Thickness (mm) s1 +0,2 -0,1	For Bolt d2	Bolt Length L max.	S2	Material	Corrosion Resistance	Dimension Ød1 (mm)	Bolt Head Type
9	10,5	11	0,40	M4	31	—	W1-DIN EN 10326-04 S350-GD+Z	72 h	Ø9 - Ø40	ISO 1207 Cheese Head Bolt 
12	14	13,5	0,50	M5	35	8	W1-DIN EN 10326-04 S350-GD+Z	72 h	Ø12 - Ø50	DIN 931 Slotted Bolt 
15	17	17	0,60	M6	40	10	W1-DIN EN 10326-04 S350-GD+Z	72 h	Ø20 - Ø70	DIN 931 Slotted Bolt 
20	22	20	0,90	M8	46	13	W1-DIN EN 10326-04 S350-GD+Z	72 h	Ø25 - Ø80	DIN 931 Slotted Bolt 

**Features:**

- In accordance to DIN 3016
- D Type
- Primarily used for fixing hydraulic pipes, hoses and cables.
- The rubber profile absorbs vibration, jolts and also insulates.
- The band around fastening hole is reinforce.
- With rubber profile EPDM - Neoprene - Silicone available

Technical information

Material Width (b)		9	12	15		20		25	
Diameter D (mm)		Ø5 - Ø40	Ø5 - Ø80	Ø5 - Ø14	Ø15 - Ø100	Ø10 - Ø25	Ø26 - Ø130	Ø15 - Ø49	Ø50 - Ø150
Material Thickness S1 (+0,2/-0,1)	W1	0,40	0,50	0,60	0,80	0,80	1,00	1,00	1,25
	W3	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
	W4	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
Total Material Thickness S2 (+0,2/-0,1)	W1	1,40	1,50	1,60	1,80	2,30	2,50	2,50	2,75
	W3	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
	W4	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
Hole Diameter (d)		Ø4,30 (-0/+0,18)	Ø5,30 (-0/+0,18)	Ø6,40 (-0/+0,22)		Ø8,40 (-0/+0,22)		Ø10,50 (-0/+0,28)	
Distance - L1		(D/2)+5,70	(D/2)+8	(D/2)+11,20		(D/2)+14,50		(D/2)+17,50	
Distance - L2		(D/2)+10,20	(D/2)+14	(D/2)+18,70		(D/2)+24,50		(D/2)+30	
Rubber Thickness (S3)		1 ±0,35	1,20 ±0,35	1,50 ±0,35		2,0 ±0,35		3,0 ±0,35	
Rubber Width (b2)		13 ±0,80	15±0,80	19±1		25±1		31±1,30	

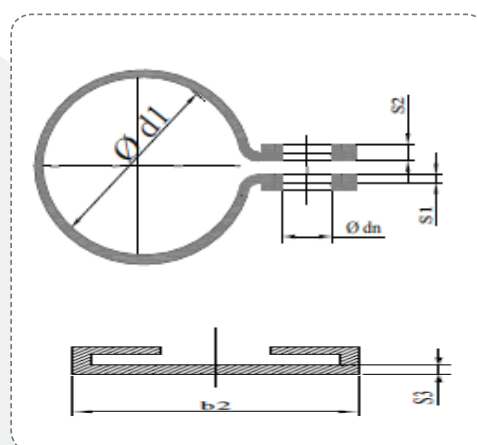


Features:

- In accordance to DIN 3016
- A Type - w/o rubber
- Primarily used for fixing hydraulic pipes, hoses and cables.
- The band around fastening hole is reinforce.

Technical information

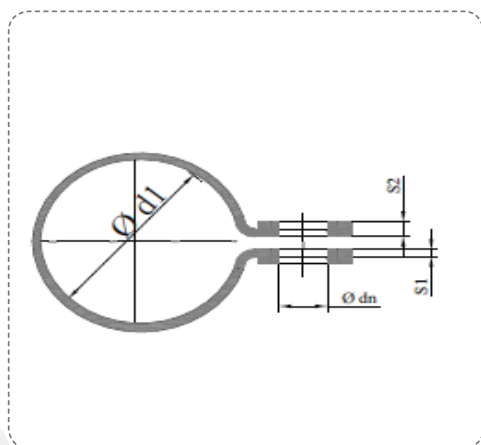
Material Width (b)		9	12	15		20		25	
Diameter D (mm)		Ø5 - Ø40	Ø5 - Ø80	Ø5 - Ø14	Ø15 - Ø100	Ø10 - Ø25	Ø26 - Ø130	Ø15 - Ø49	Ø50 - Ø150
Material Thickness S1 (+0,2/-0,1)	W1	0,40	0,50	0,60	0,80	0,80	1,00	1,00	1,25
	W3	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
	W4	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
Total Material Thickness S2 (+0,2/-0,1)	W1	1,40	1,50	1,60	1,80	2,30	2,50	2,50	2,75
	W3	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
	W4	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
Hole Diameter (d)		Ø4,30 (-0/+0,18)	Ø5,30 (-0/+0,18)	Ø6,40 (-0/+0,22)		Ø8,40 (-0/+0,22)		Ø10,50 (-0/+0,28)	
Distance - L1		(D/2)+4,70	(D/2)+6,80	(D/2)+9,70		(D/2)+12,50		(D/2)+14,50	
Distance - L2		(D/2)+9,20	(D/2)+13	(D/2)+17,20		(D/2)+22,50		(D/2)+27	

**Features:**

- In accordance to DIN 3016
- E Type
- Primarily used for fixing hydraulic pipes, hoses and cables.
- The rubber profile absorbs vibration, jolts and also insulates.
- The band around fastening hole is reinforce.
- With rubber profile EPDM - Neoprene - Silicone available

Technical information

Material Width (b)		9	12	15		20		25	
Diameter D (mm)		Ø5 - Ø40	Ø5 - Ø80	Ø5 - Ø14	Ø15 - Ø100	Ø10 - Ø25	Ø26 - Ø130	Ø15 - Ø49	Ø50 - Ø150
Material Thickness S1 (+0,2/-0,1)	W1	0,40	0,50	0,60	0,80	0,80	1,00	1,00	1,25
	W3	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
	W4	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
Total Material Thickness S2 (+0,2/-0,1)	W1	1,40	1,50	1,60	1,80	2,30	2,50	2,50	2,75
	W3	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
	W4	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
Hole Diameter (dn)		Ø4,30 (-0/+0,18)	Ø5,30 (-0/+0,18)	Ø6,40 (-0/+0,22)		Ø8,40 (-0/+0,22)		Ø10,50 (-0/+0,28)	
Rubber Thickness (S3)		1±0,35	1,20±0,35	1,50±0,35		2,0±0,35		3,0 ±0,35	
Rubber Width (b2)		13±0,80	15±0,80	19±1		25±1		31±1,30	



Features:

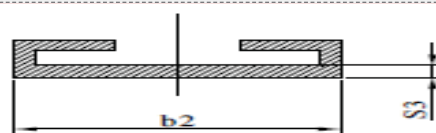
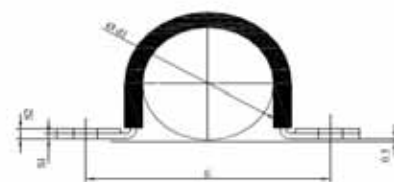
- In accordance to DIN 3016
- B Type w/o rubber
- Primarily used for fixing hydraulic pipes, hoses and cables.
- The band around fastening hole is reinforce.

Technical information

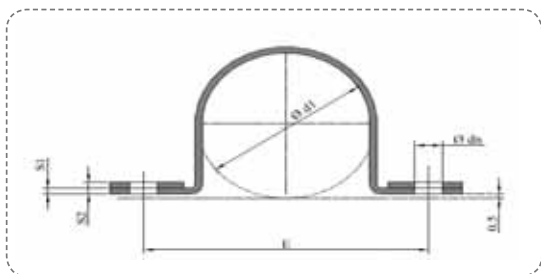
Material Width (b)		9	12	15		20		25	
Diameter D (mm)		Ø5 - Ø40	Ø5 - Ø80	Ø5 - Ø14	Ø15 - Ø100	Ø10 - Ø25	Ø26 - Ø130	Ø15 - Ø49	Ø50 - Ø150
Material Thickness S1 (+0,2/-0,1)	W1	0,40	0,50	0,60	0,80	0,80	1,00	1,00	1,25
	W3	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
	W4	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
Total Material Thickness S2 (+0,2/-0,1)	W1	1,40	1,50	1,60	1,80	2,30	2,50	2,50	2,75
	W3	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
	W4	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
Hole Diameter (dn)		Ø4,30 (-0/+0,18)	Ø5,30 (-0/+0,18)	Ø6,40 (-0/+0,22)		Ø8,40 (-0/+0,22)		Ø10,50 (-0/+0,28)	

**Features:**

- In accordance to DIN 3016
- F Type
- Primarily used for fixing hydraulic pipes, hoses and cables.
- The rubber profile absorbs vibration, jolts and also insulates.
- The band around fastening hole is reinforce.
- With rubber profile EPDM - Neoprene - Silicone available

**Technical information**

Material Width (b)		9	12	15		20		25	
Diameter D (mm)		Ø5 - Ø40	Ø5 - Ø80	Ø5 - Ø14	Ø15 - Ø100	Ø10 - Ø25	Ø26 - Ø130	Ø15 - Ø49	Ø50 - Ø150
Material Thickness S1 (+0,2/-0,1)	W1	0,40	0,50	0,60	0,80	0,80	1,00	1,00	1,25
	W3	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
	W4	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
Total Material Thickness S2 (+0,2/-0,1)	W1	1,40	1,50	1,60	1,80	2,30	2,50	2,50	2,75
	W3	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
	W4	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
Hole Diameter (dn)		Ø4,30 (-0/+0,18)	Ø5,30 (-0/+0,18)	Ø6,40 (-0/+0,22)		Ø8,40 (-0/+0,22)		Ø10,50 (-0/+0,28)	
Hole Axis Distance - E		(D/2)+5,70 x2	(D/2)+8 x2	(D/2)+11,20 x2		(D/2)+14,50 x2		(D/2)+17,50 x2	
Rubber Thickness (S3)		1 ±0,35	1,20±0,35	1,50±0,35		2,0±0,35		3,0±0,35	
Rubber Width (b2)		13 ±0,80	15±0,80	19±1		25±1		31±1,30	

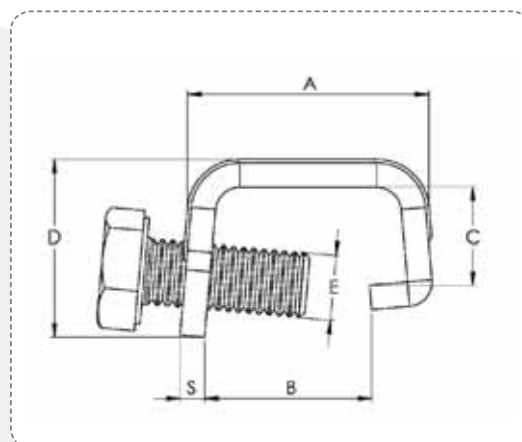


Features:

- In accordance to DIN 3016
- C Type w/o rubber
- Primarily used for fixing hydraulic pipes, hoses and cables.
- The band around fastening hole is reinforce.

Technical information

Material Width (b)		9	12	15		20		25	
Diameter D (mm)		Ø5 - Ø40	Ø5 - Ø80	Ø5 - Ø14	Ø15 - Ø100	Ø10 - Ø25	Ø26 - Ø130	Ø15 - Ø49	Ø50 - Ø150
Material Thickness S1 (+0,2/-0,1)	W1	0,40	0,50	0,60	0,80	0,80	1,00	1,00	1,25
	W3	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
	W4	0,40	0,50	0,60	0,60	0,80	0,80	1,00	1,00
Total Material Thickness S2 (+0,2/-0,1)	W1	1,40	1,50	1,60	1,80	2,30	2,50	2,50	2,75
	W3	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
	W4	1,40	1,50	1,60	1,60	2,30	2,30	2,50	2,50
Hole Diameter (dn)		Ø4,30 (-0/+0,18)	Ø5,30 (-0/+0,18)	Ø6,40 (-0/+0,22)		Ø8,40 (-0/+0,22)		Ø10,50 (-0/+0,28)	
Hole Axis Distance - E		(D/2)+4,70 x2	(D/2)+6,80 x2	(D/2)+9,70 x2		(D/2)+12,50 x2		(D/2)+14,50 x2	



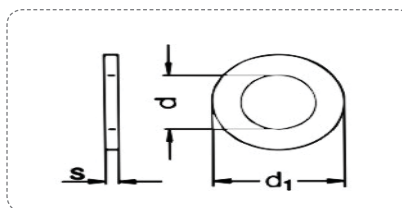
Features & Benefits:

- Material: DIN EN 10111
- To connect air ducts
- Enables quick and easy installation
- Electro galvanized (min. 8 micron)
- Bolt screw: ISO 898-1

Technical information

Part-No.	A	B	C	D	E	Material Thickness S	Pack (pcs)
FRMADC020-01	30	21,50	9,00	18,50	M8x25	2 mm	200
FRMADC030-01	35	23,00	10,30	20,00	M8x25	3 mm	100

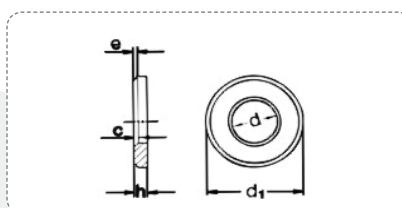
FLAT WASHER - DIN 125



Technical information

Part -No.	For SW	d	d1	s
FRMRD0125-12	M12	13	24	2,50
FRMRD0125-14	M14	15	28	2,50
FRMRD0125-16	M16	17	30	3
FRMRD0125-18	M18	19	34	3
FRMRD0125-20	M20	21	37	3
FRMRD0125-22	M22	23	39	3
FRMRD0125-24	M24	25	44	4
FRMRD0125-27	M27	28	50	4
FRMRD0125-30	M30	31	56	4

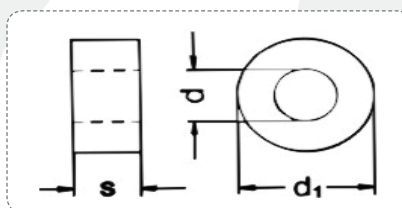
STRUCTURAL WASHER - DIN 6916



Technical information

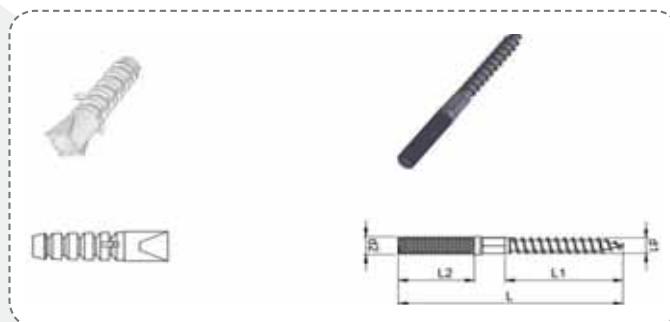
Part -No.	For SW	d	d1	h	c	Approx. e
FRMRD6916-12	M12	13	24	3	1,60	0,50
FRMRD6916-14	M14	15	28	3	1,60	0,50
FRMRD6916-16	M16	17	30	4	1,60	1
FRMRD6916-18	M18	19	34	4	1,60	1
FRMRD6916-20	M20	21	37	4	2	1
FRMRD6916-22	M22	23	39	4	2	1
FRMRD6916-24	M24	25	44	4	2	1
FRMRD6916-27	M27	28	50	5	2,50	1
FRMRD6916-30	M30	31	56	5	2,50	1

FLAT WASHERS - DIN 7989



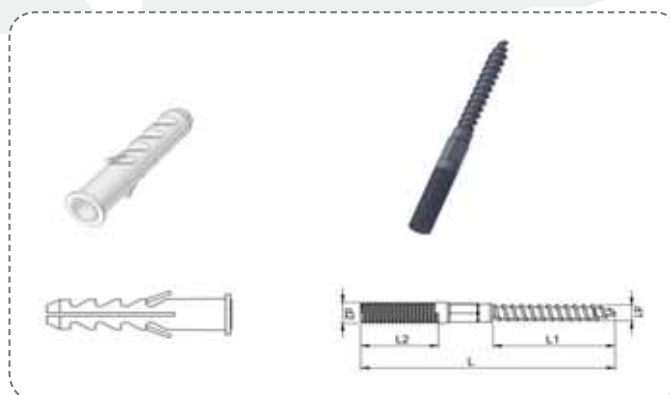
Technical information

Part -No.	For SW	d	d1	s
FRMRD7989-10	M10	11	21	8
FRMRD7989-12	M12	14	24	8
FRMRD7989-16	M16	18	30	8
FRMRD7989-20	M20	22	37	8
FRMRD7989-22	M22	24	39	8
FRMRD7989-24	M24	26	44	8



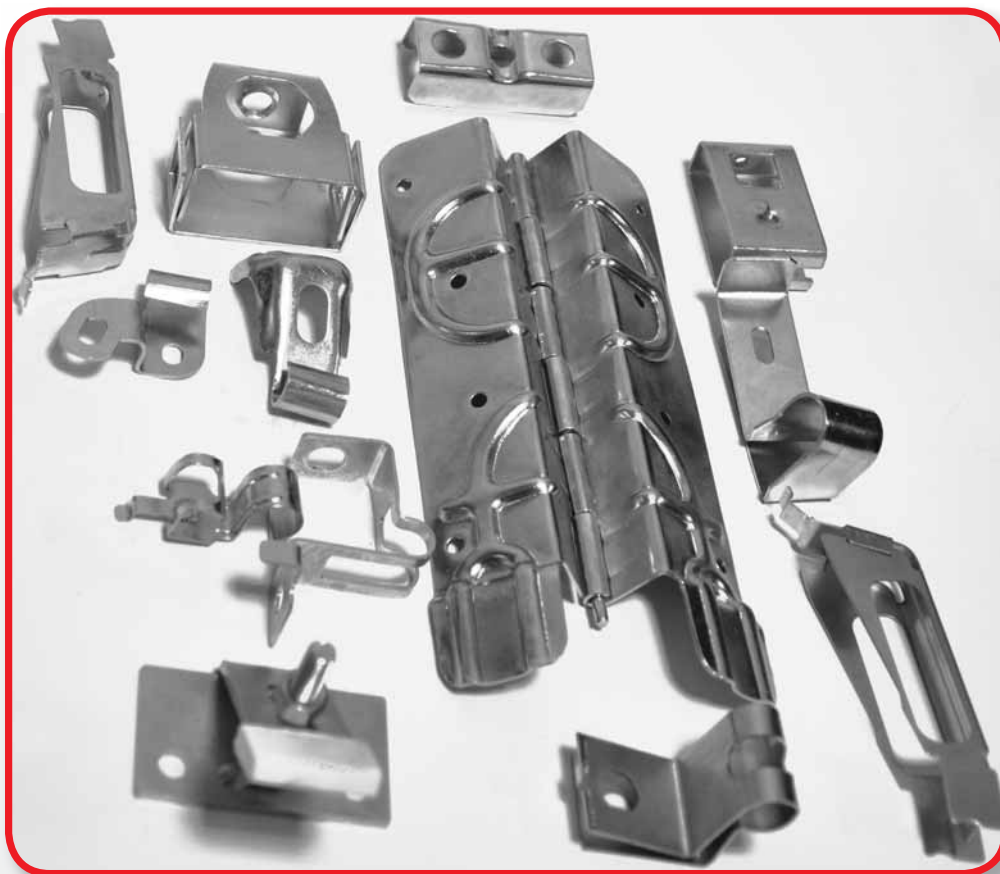
Technical information

Part-No.	Size	L2	L1	L
FRMTA08070	M8x70	21,50	40	70
FRMTA08080	M8x80	20	40	80
FRMTA08100	M8x100	35	40	100
FRMTA08110	M8x110	40	40	110
FRMTA08120	M8x120	45	40	120



Technical information

Part-No.	Size	L2	L1	L
FRMTA10100	M10x100	30	60	100
FRMTA10110	M10x110	35	60	110
FRMTA10120	M10x120	40	60	120
FRMTA10140	M10x140	50	60	140



Forming, cutting, pressing of metal parts



Forming, welding of metal parts



Forming, welding of metal parts



Rope Head



CNC Parts

NOTES

Handwriting practice lines consisting of 20 horizontal dashed lines.

FORMFIX®
Fixing Systems

Address: Merkez Mah. Çeşme Cad.
Dostane Sok. No:23/B
TR-34956 Orhanlı - Tuzla
ISTANBUL - TURKEY

Phone : + 90 (216) 394 47 68
Fax : + 90 (216) 394 47 92

e-mail: info@formfix.com.tr

www.formfix.com.tr