

ARSEN®

VALVE JACKETS

HEATING VALVE JACKETS

COOLING VALVE JACKETS



CE



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HEATING VALVE JACKETS GENERAL EXPLANATIONS



Valve jackets are insulation products in order to prevent heat losses in valves used in heating systems.

Area of use

- Steam Lines
- Hot Oil Lines
- Pumps
- Heat Exchanger
- Special Applications

Technical Specifications

Cloth Material	Nonflammable Cloth with Silicon / Ceramic Fiber Cloth
Insulation Material	Rock Wool / Ceramic Blanket
Packthread	Fiber Glass Rope
Dimensions	DN 15 – DN 500
Temperature Rating (Max)	1200 °C

Advantages of Arsen Heating Valve Jackets

- ✓ There are no components used in structure of jackets to form a thermal bridge. (Wire, Metal Fasteners etc.)
- ✓ Cloth material includes silicon and is imported from Europe.
(China made clothes without silicon is not used in production.)
- ✓ Our jacket templates is designed specifically to cover the valves completely.
- ✓ In maintenance phase, it is possible to remove the jacket easily and use it again after maintenance.
(They are not disposable like metal coatings)

Application of Heating Jacket



Wrapping the Jacket



Joining Upper Surfaces



Joining Side Surfaces

COOLING VALVE JACKETS GENERAL EXPLANATIONS



Cooling valve jackets are insulation products in order to prevent condensation and energy losses in valves in cooling systems.

- Area of use
- Cooling Lines
 - Valves
 - Pumps
 - Pipelines
 - Special Applications

Technical Specifications	
Cloth Material	Nonflammable Cloth with Silicon
Insulation Material	Rubber Foam
Packthread	Cable Tie
Dimensions	DN 15 – DN 500
Temperature Rating (Max)	-40 /+105 °C

Advantages of Arsen Cooling Valve Jackets

- ✓ Provides 100% airtightness due to special production techniques.
- ✓ Removing and wrapping is quite easy because it is not fixed to cooling surfaces.
- ✓ Provides protection from ambient effects due to inflammable cloth used in back side of insulation material.
- ✓ Has an esthetical view and occupies least space. Easy to use every kind of confined spaces.

Application of Cooling Jacket



Wrapping the Jacket



Joining Upper Surfaces

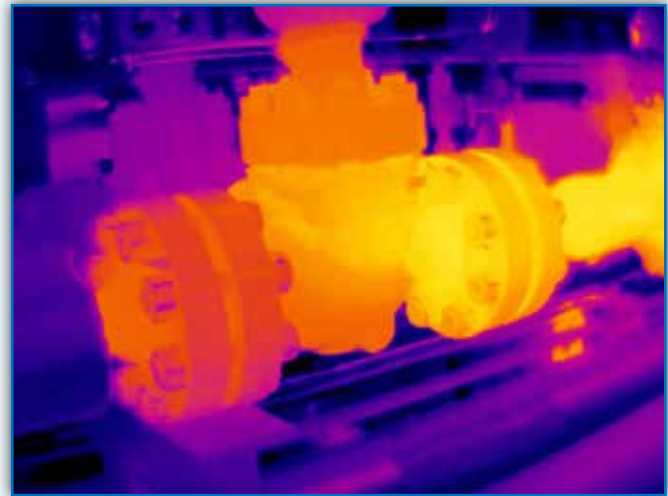


Joining Side Surfaces

COST OF UNCOVERED VALVES

Heat Losses from Uncovered Steam Pipes into Ambient Still Air													
Temp. Diff.	Pipe Diameter												
	15	20	25	32	40	50	65	80	100	125	150	200	250
°C	Kcal/Hour/Mt.												
67	58	70	86	104	116	144	170	202	254	310	352	480	600
78	71	86	105	128	142	174	207	256	309	380	430	600	720
89	85	103	125	154	176	211	248	297	373	440	517	700	790
100	99	120	145	179	201	245	290	344	430	510	598	800	980
111	115	141	170	207	233	287	337	403	514	610	700	900	1150
125	136	164	200	245	276	338	399	477	600	750	833	1200	1500
139	158	192	234	286	320	393	464	535	700	800	974	1350	1650
153	180	219	268	328	369	454	535	642	807	850	1122	1450	1750
167	207	251	307	375	420	517	613	720	940	1020	1283	1600	1900
180	235	282	350	424	478	581	694	824	1023	1280	1427	1900	2200

Table of Equivalent Lengths of Uncovered Valve and Flanges				
Type	DN	Pipe Temperature °C		
		50	100	300
Valve	25	0.2m	0.4m	1.0m
	100	0.5m	1.0m	2.5m
	300	1.5m	3.0m	7.0m
Flange	25	0.5m	1.0m	2.5m
	100	1.2m	2.5m	7.0m
	300	3.0m	6.0m	12.0m

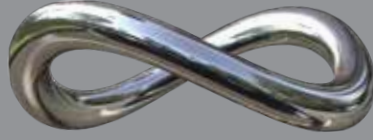


Costs of Thermal Loss for Uncovered Valves (Temperature Difference:125 °C)							
DN	Pipe Loss Kcal/Hour/Mt.	Eq-Length Valve Mt.	Valve Loss Kcal/Hour/Mt.	Natural Gas Cost			
				Monthly		Annually	
				Eur	Usd	Eur	Usd
50	338.00	2.35	794.00	14.5	18.2	174.0	218.4
65	399.00	2.71	1.077.00	19.3	24.1	231.6	289.2
80	477.00	3.05	1.454.00	26.2	32.7	314.4	392.4
100	600.00	3.38	2.028.00	36.4	45.5	436.8	546.0
150	833.00	4.92	4.100.00	69.0	86.4	828.0	1036.8
200	1.200.00	5.68	6.800.00	120.0	150.0	1440.0	1800.0

1000 kcal=0.022 Eur / 0.036 Usd received.

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“QUALITY ALWAYS WINS”

ARSENFLEX[®]