

OZALFA

Engineering s.r.l.

MONOLITHIC ISOLATION JOINTS



Alfa Engineering

is a worldwide manufacturer and distributor of high quality monolithic isolation joints for the petrochemical industry.

Wherever you find pipelines and gas distribution system you will also find a wide array of reliable **Alfa Engineering** products.

The correct location of **Alfa Engineering** monolithic isolation joints may result in savings in the overall cost of corrosion control systems.

ONSHORE PROJECTS

To limit the spread and hence cost of cathodic protection current to those pipes that need to be effectively and economically protected by the main cathodic protection system.

To electrically "split up" long pipelines into distinctive cathodic protection system.

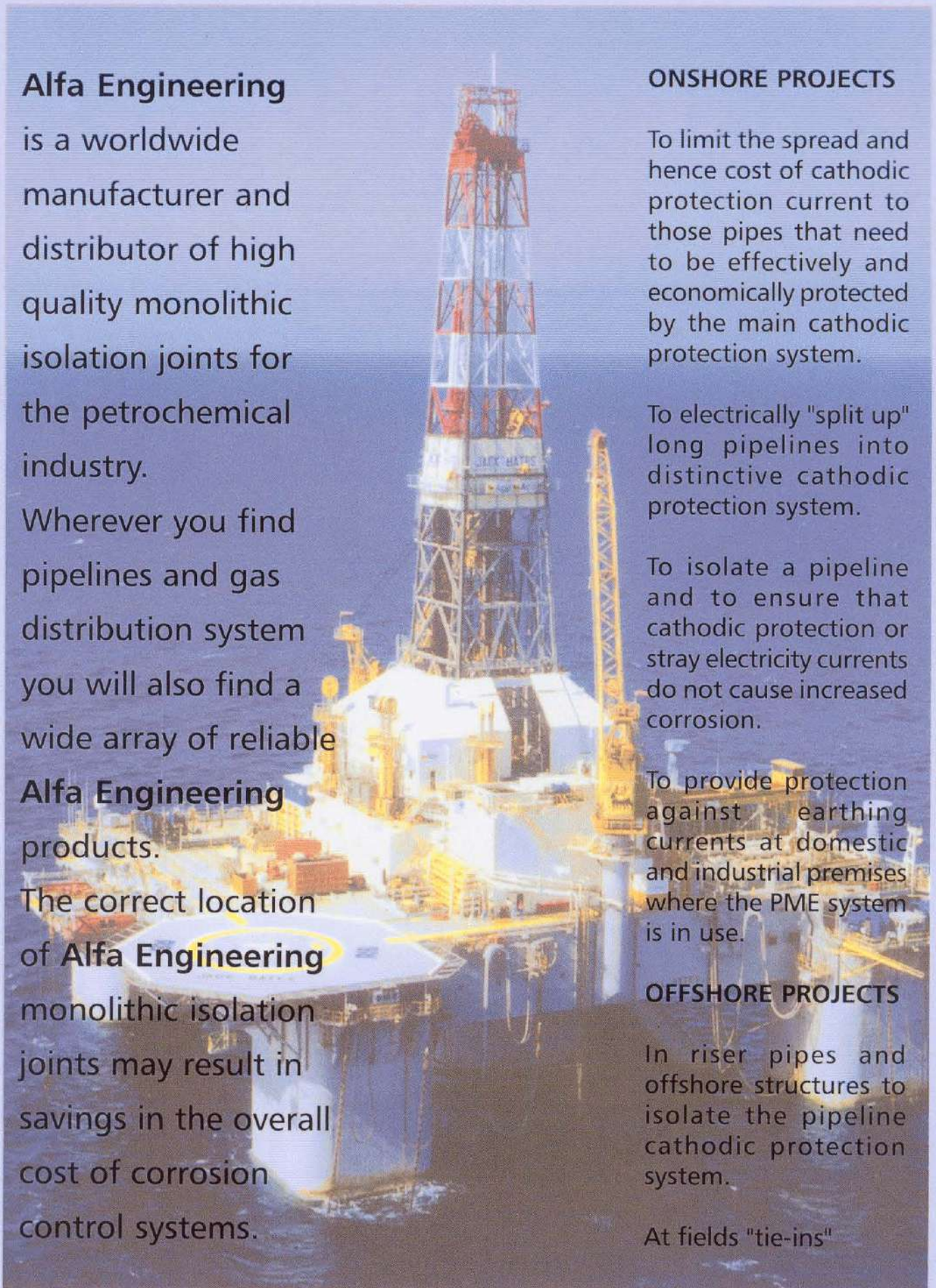
To isolate a pipeline and to ensure that cathodic protection or stray electricity currents do not cause increased corrosion.

To provide protection against earthing currents at domestic and industrial premises where the PME system is in use.

OFFSHORE PROJECTS

In riser pipes and offshore structures to isolate the pipeline cathodic protection system.

At fields "tie-ins"



DESIGN & MATERIAL CODES
ASME-ANSI-ASTM-BS-DIN-UNI

SIZE RANGE: 1/2" to 100"

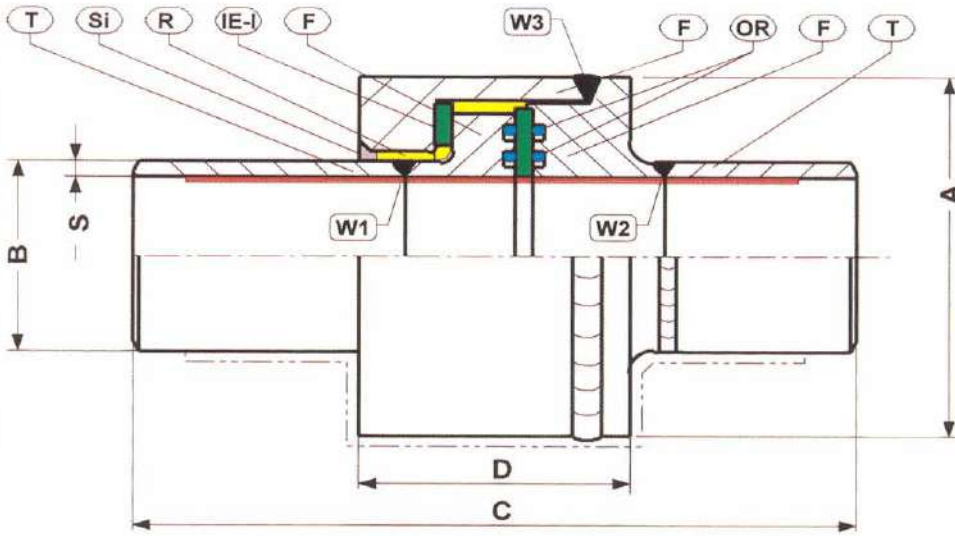
DESIGN PRESSURES:
ANSI 150-300/400-600-900
1500-2500-API 10000

DESIGN TEMP.: -40 ÷ 160° C

ELECTRIC CHARACTERISTICS
-ELECTIC RESISTANCE ≥ 25 MΩ
-BREAKDOWN VOLTAGE ≥ 5 kV
50 Hz 1'

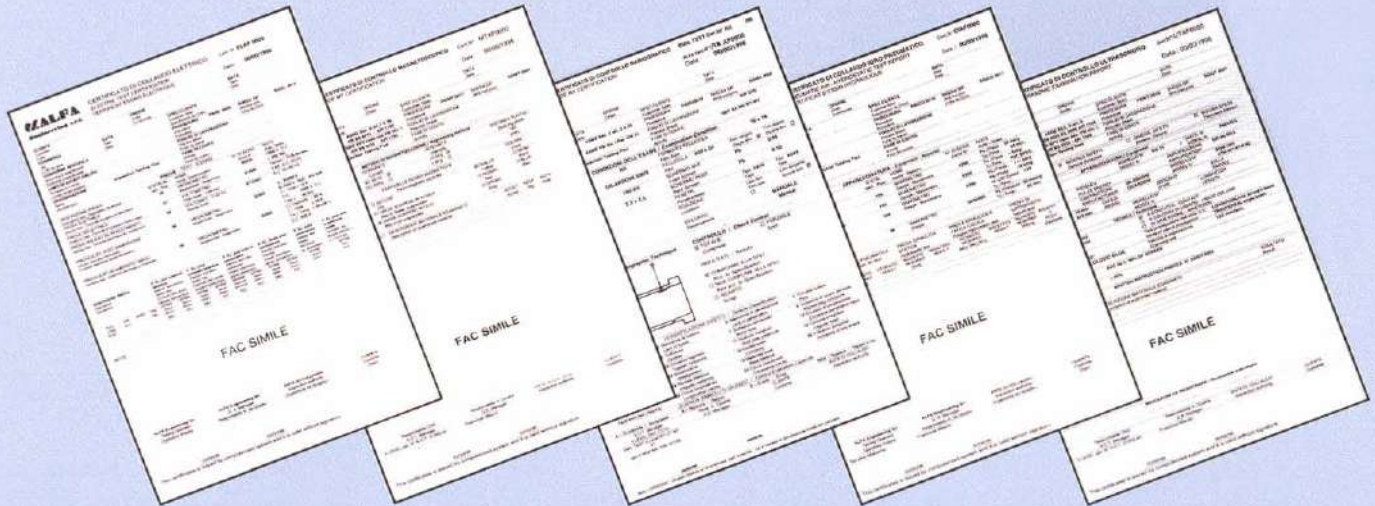
LEGEND:

- PIPE PUPS STEEL T
- FORGED RING F
- FILLER RESIN R
- INSULATING RING IE-I
- SILICON Si
- SEAL "O" RING OR



DN	ANSI 150 (PN or DP 25)						ANSI 300-400 (PN or DP 64)						ANSI 600 (PN or DP 100)				
	In	B	IT	S	API 5L Gr.	A	C	D	S	API 5L Gr.	A	C	D	S	API 5L Gr.	A	C
01	33.4	25	3.38	B	76	400	92	3.38	B	76	400	92	3.38	B	76	400	92
02	60.3	50	3.91	B	104	400	106	3.91	B	110	500	108	5.54	B	110	500	108
03	88.9	80	4.78	B	130	400	114	5.49	B	150	500	114	5.49	B	150	500	116
04	114.3	100	4.78	B	155	400	120	6.02	B	175	500	120	6.02	B	175	500	130
06	168.3	150	5.56	B	216	400	134	7.11	X52	240	500	140	7.11	X52	240	500	150
08	219.1	200	6.35	B	269	400	148	8.18	X52	294	600	160	8.18	X52	294	600	178
10	273	250	6.35	B	320	450	156	8.74	X52	352	700	180	9.27	X52	352	700	204
12	323.9	300	6.35	B	378	450	160	9.52	X52	404	700	204	9.52	X52	404	700	224
14	355.6	350	7.92	B	419	600	190	9.52	X52	448	800	214	9.52	X52	453	800	250
16	406.4	400	7.92	B	478	800	210	10.31	X52	495	800	234	10.31	X52	502	800	274
18	457.2	450	7.92	B	529	800	224	11.91	X52	546	800	260	11.91	X52	552	800	300
20	508.0	500	7.92	B	580	900	234	11.91	X52	605	900	274	11.91	X52	609	900	322
24	609.6	600	9.52	B	695	1000	274	14.27	X52	705	1000	324	14.27	X52	739	1000	358
26	660.4	650	9.52	B	734	1000	286	14.27	X52	756	1000	336	14.27	X52	783	1200	386
28	711.2	700	9.52	B	784	1000	296	15.88	X52	815	1200	360	15.88	X52	836	1200	376
30	762.0	750	9.52	B	840	1000	304	15.88	X52	879	1200	376	15.88	X52	907	1300	426
32	812.8	800	9.52	B	890	1000	314	19.05	X52	884	1300	390	19.05	X52	946	1300	430
36	914.4	900	9.52	B	990	1200	330	19.05	X52	1031	1300	440	19.05	X52	1080	1300	492

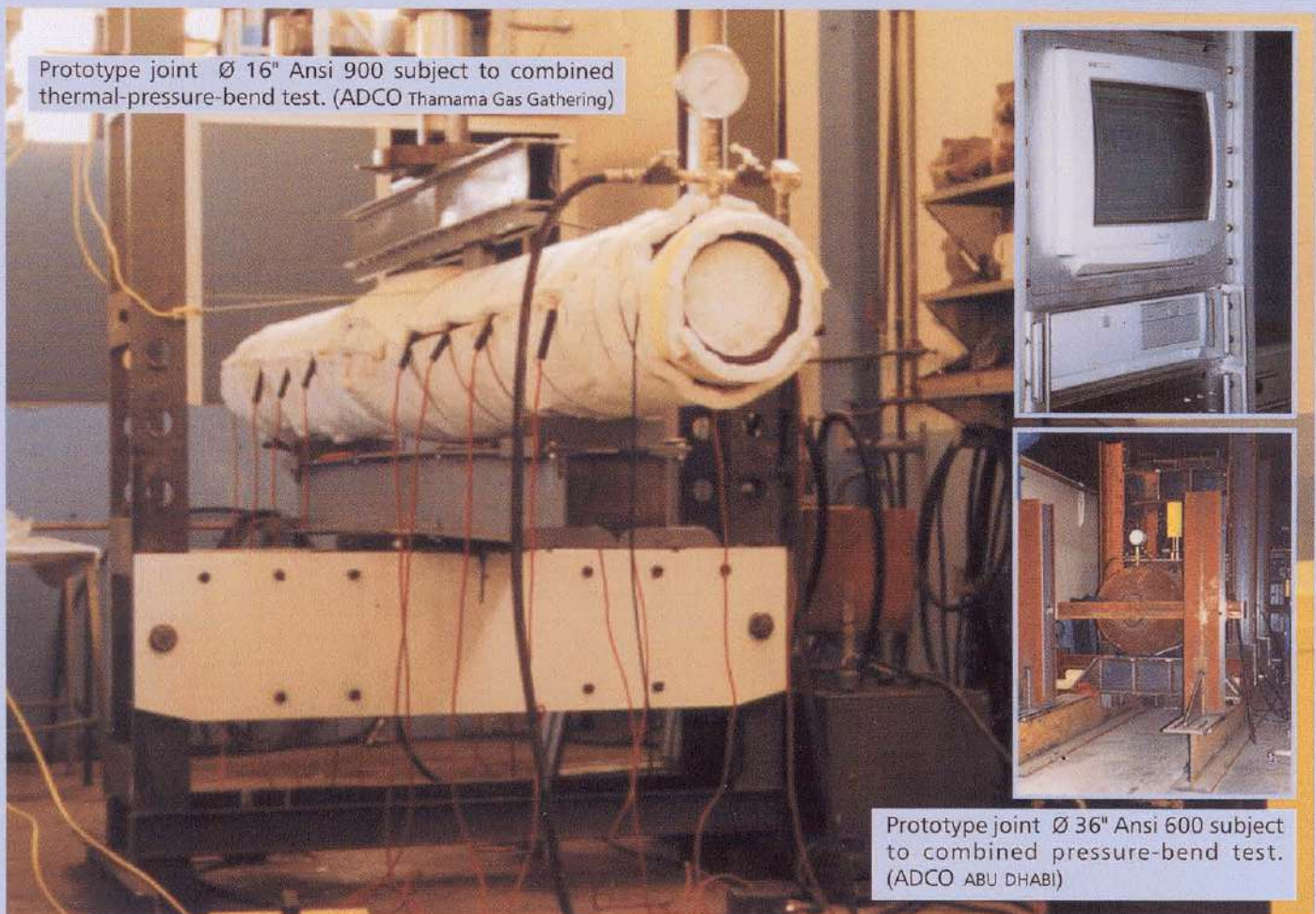
NOTE: ISOLATING JOINTS > DN 36", DATA SHEET AVAILABLE ON REQUEST.
LINING AND COATING SPECIFICATION AND DATA SHEET AVAILABLE ON REQUEST.



QUALITY ASSURANCE

Alfa Engineering operate a Quality Assurance System in accordance with the requirements of UNI EN 29002-ISO 9002. This ensures close control over all stages of production and manufacture.

Alfa Engineering staff and personnel take pride in producing top quality products and are very proud of the reputation **Alfa Engineering** has within the Petrochemical Industry as a qualified and Quality oriented Company.



Prototype joint Ø 16" Ansi 900 subject to combined thermal-pressure-bend test. (ADCO Thamama Gas Gathering)

Prototype joint Ø 36" Ansi 600 subject to combined pressure-bend test. (ADCO ABU DHABI)

TRAINING AND AWARENESS

Alfa Engineering employees know the importance of a team effort to ensure success of the quality Management system. Both formal and the job training teaches each employee how to detect and to prevent potential and real product defects, as well as to routinely follow the quality manual instructions and data sheets. Formal training records for the personnel are retained by Human Resources to document ISO awareness training in addition to job skill and performance training.

RELIABILITY TESTING

Alfa Engineering have also dedicated vast resources to ensure product reliability. A fully equipped test laboratory is available to carry out mechanical tests on each component in order to secure total compliance with international codes and standards, ASME, ASTM, BS, DIN ... and to satisfy our customer's needs with integrated innovative technologies and products that solve complex problems in a very quick evolving Petrochemical and Oil Industry.

DEMANDING APPLICATIONS

Making dependable isolation joints with dependable seals for safety-critical and extreme applications goes beyond excellence in design and manufacturing. It also means a deep commitment to Quality.

Alfa Engineering as a major isolation joints manufacturer, have access to substantial application data and a wealth of experience over untold period.

Our practical know-how in using very complex and secure methods is supported by finite element analysis, to combine experience and technology at the same time.

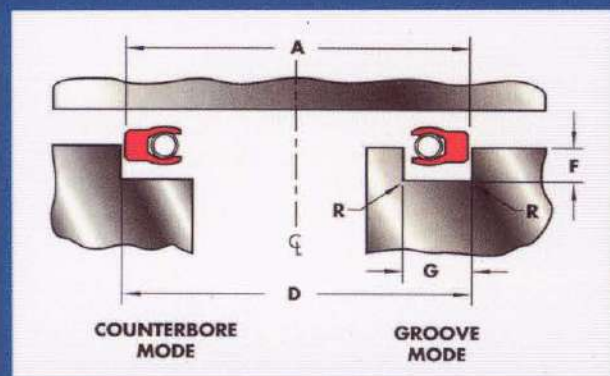
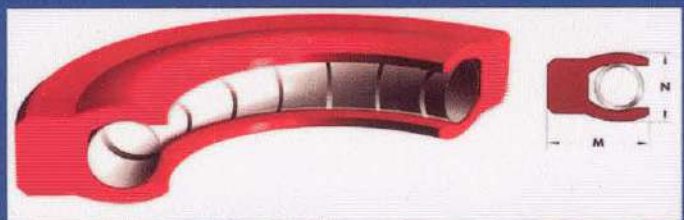
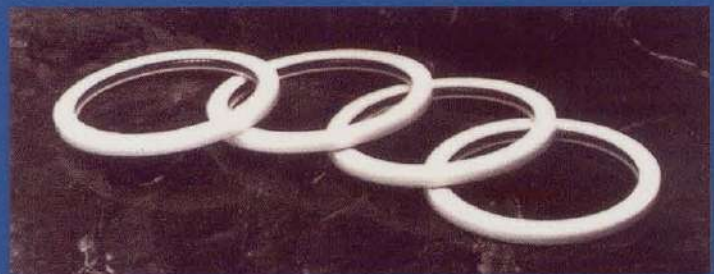
The most extreme environments demand a strong commitment in finding the best sealing solution. Alfa Engineering are committed to meet the challenges for very demanding applications and services for high pressures or hard vacuum, nonetheless the challenge against corrosive chemical and very low temperature in-line services.

NEW CONCEPTS

Alfa Engineering isolation joints are designed to meet and satisfy very high pressure services up to 20000 psi, with excellent internally pressurised, spring energized face seal for static and intermittent dynamic use.

FEATURES

- High resiliency resists permanent set and maintains long term compliance to flange separation.
- Extended heel reduces the effects of extrusion.
- Excellent fatigue resistance.
- A vast array of high-resilience spring-energizers are available, including the choice of light, medium and heavy loads and "NACE" corrosion resistance for oil field use.





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