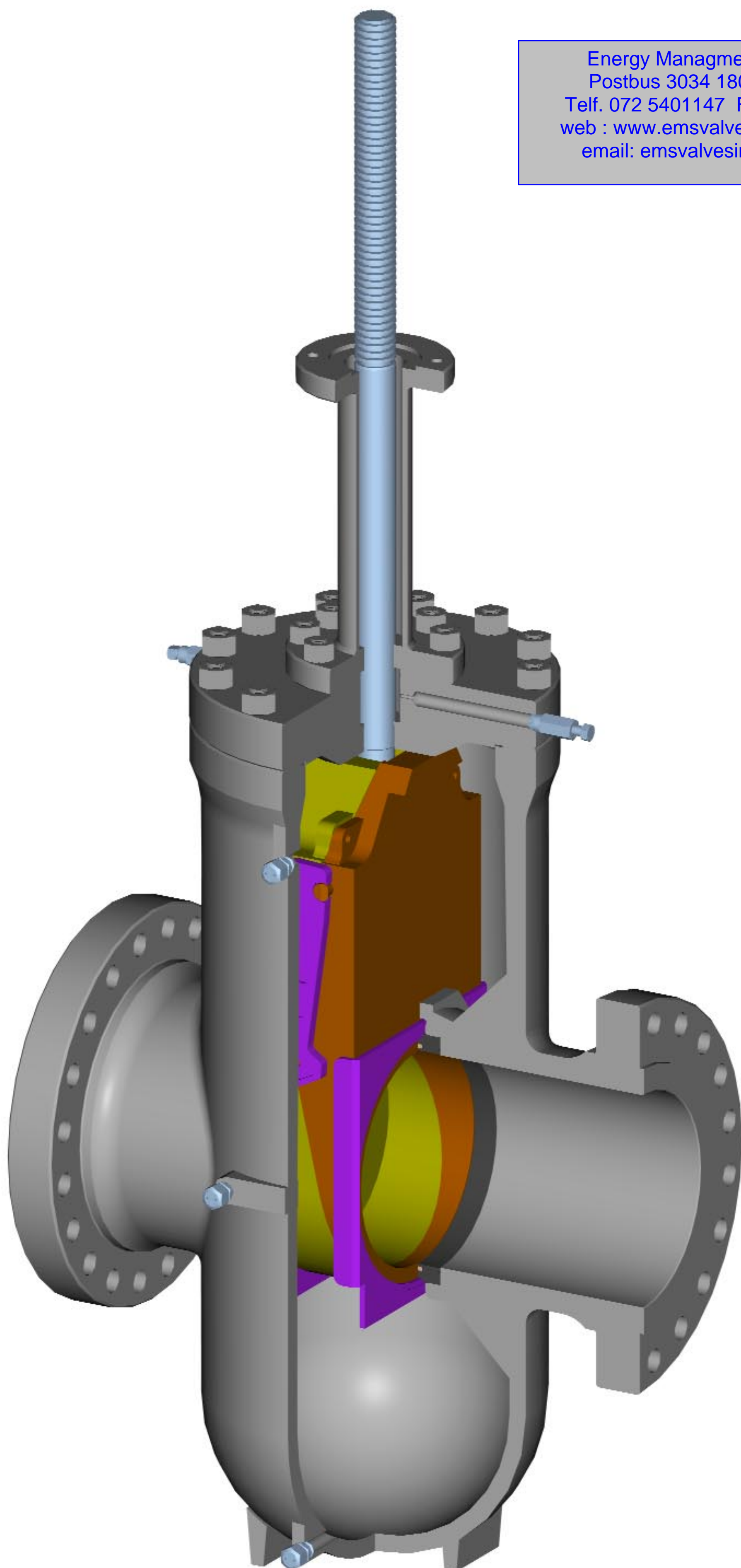


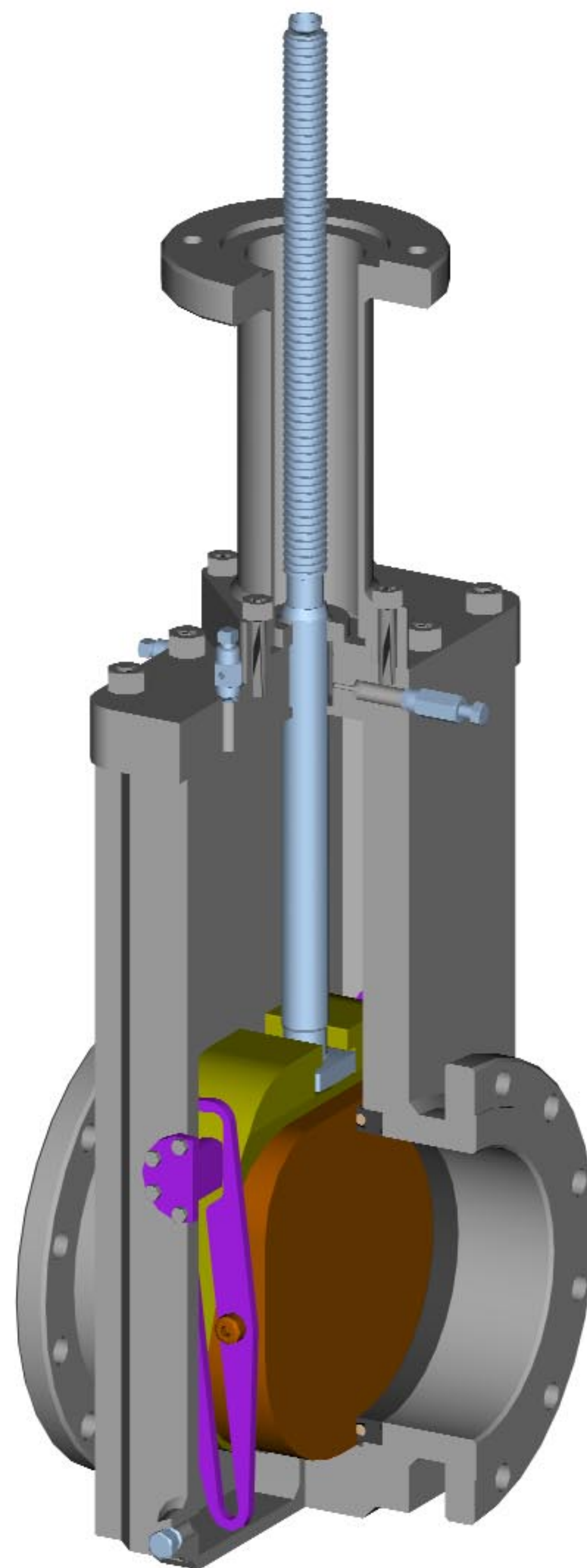
DANIEL

EXPANDING GATE VALVES

Energy Management Systems BV
Postbus 3034 1801 GA Alkmaar
Telf. 072 5401147 Fax. 072 5400992
web : www.emsvalvesinstruments.com
email: emsvalvesinstruments.com



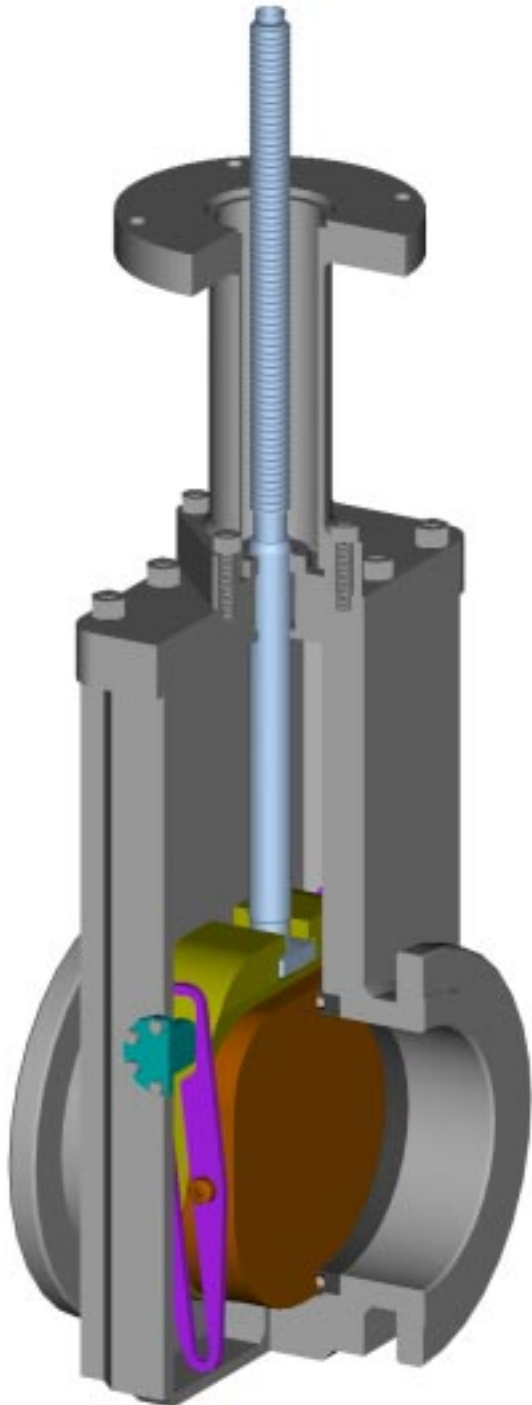
CAST BODY
DOUBLE BLOCK AND BLEED
API CLASS 600 AND HIGHER
SIZES 2" THRU 36"
THRU-CONDUIT
FULL OPENING



FABRICATED BODY
DOUBLE BLOCK AND BLEED
API CLASS 150 AND 300
SIZES 8" THRU 42"
FULL OPENING AND
REDUCED PORT

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COMPACT EXPANDING GATE VALVE

- Expanding Mechanical Seal
- Double Block and Bleed
- API 6D Gate Valve Face to Face
- In Line Maintenance

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Patent Applied For

M-303/THE PERFORMANCE LEADER IN THRU-CONDUIT GATE VALVES



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WE DESIGN AND MANUFACTURE TODAY.....

ORIGINALLY DEVELOPED FOR THE PIPELINE INDUSTRY, THE M-303 THRU-CONDUIT GATE VALVE HAS PROVED ITSELF "THE PERFORMANCE LEADER" IN EVERY PIPELINE SERVICE APPLICATION IT HAS HAD TO TURN ON OR SHUT OFF IN THE LAST TWENTY YEARS.

IN THE 60'S

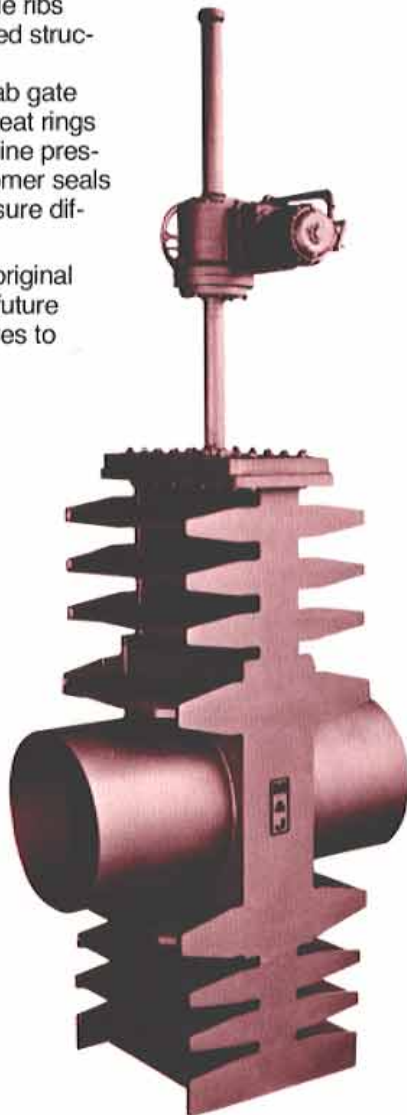
When pipelines needed a 36" Class 400 valve, M & J designed and produced the first M-3.

A TOUGH, RUGGED, ALL FABRICATED STEEL THRU-CONDUIT GATE VALVE made of angle plate and pipe. Its mid-section was unique. Instead of the usual cast steel body, it utilized fabricated steel strengthened by an extra thick hub around the port area.

As size and pressure class increased, its sides were reinforced with multiple ribs and tie plates for added structural strength.

Inside, a floating slab gate and patented M & J seat rings utilized 20# springs, line pressure and nylon/elastomer seals for low and high pressure differential service.

THE M-3 - an M & J original setting standards for future thru-conduit gate valves to come.



IN THE 70's

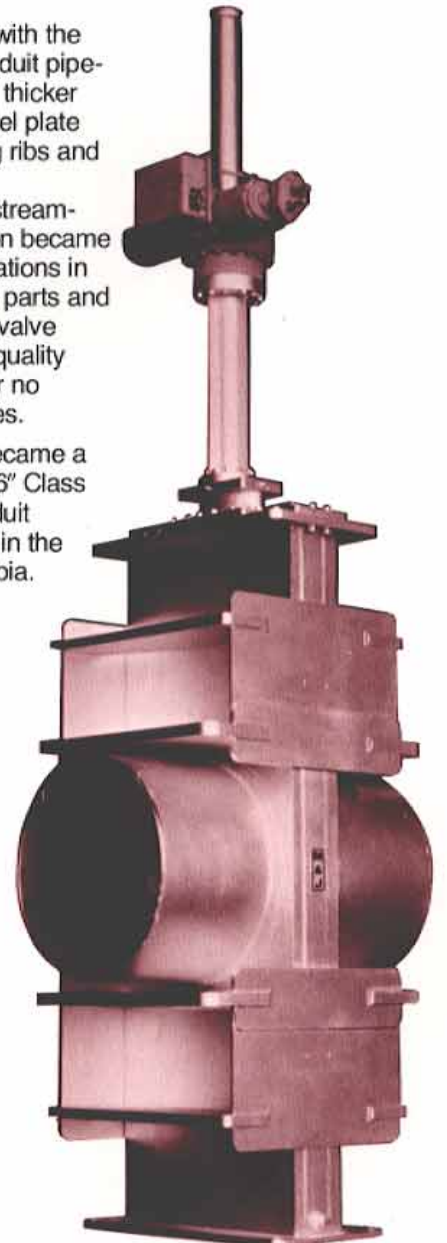
Pipeline technology advanced the size of gate valves used in both domestic and foreign markets.

Requests for 48" Class 300 and 26" Class 1500 valves dictated the need for an improved thru-conduit gate valve design.

M & J responded with the M-303 . . . a thru-conduit pipeline gate valve using thicker pressure-bearing steel plate and fewer reinforcing ribs and tie plates.

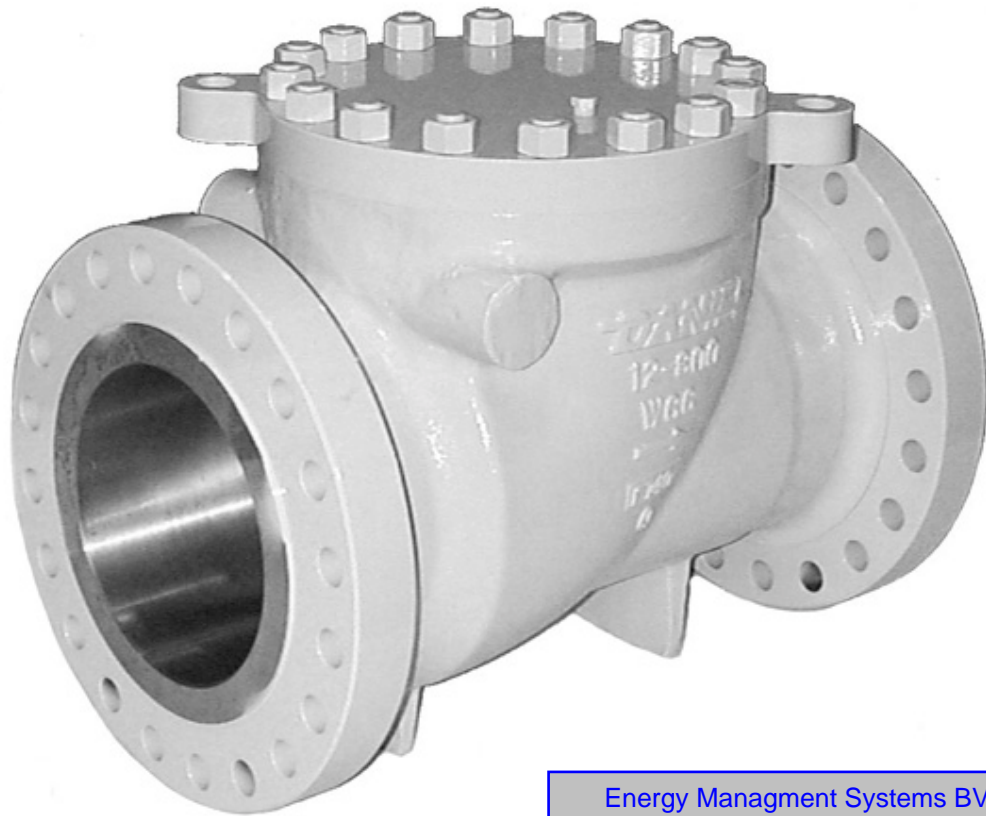
Body tubes were streamlined and construction became more efficient. Innovations in seat ring component parts and assembly increased valve delivery time. Valve quality improved with little or no change in valve prices.

PERFORMANCE became a 60" Class 300 and 56" Class 600 M-303 thru-conduit gate valve operating in the deserts of Saudi Arabia.



SWING CHECK VALVE

INSTALLATION, OPERATION AND MAINTENANCE MANUAL



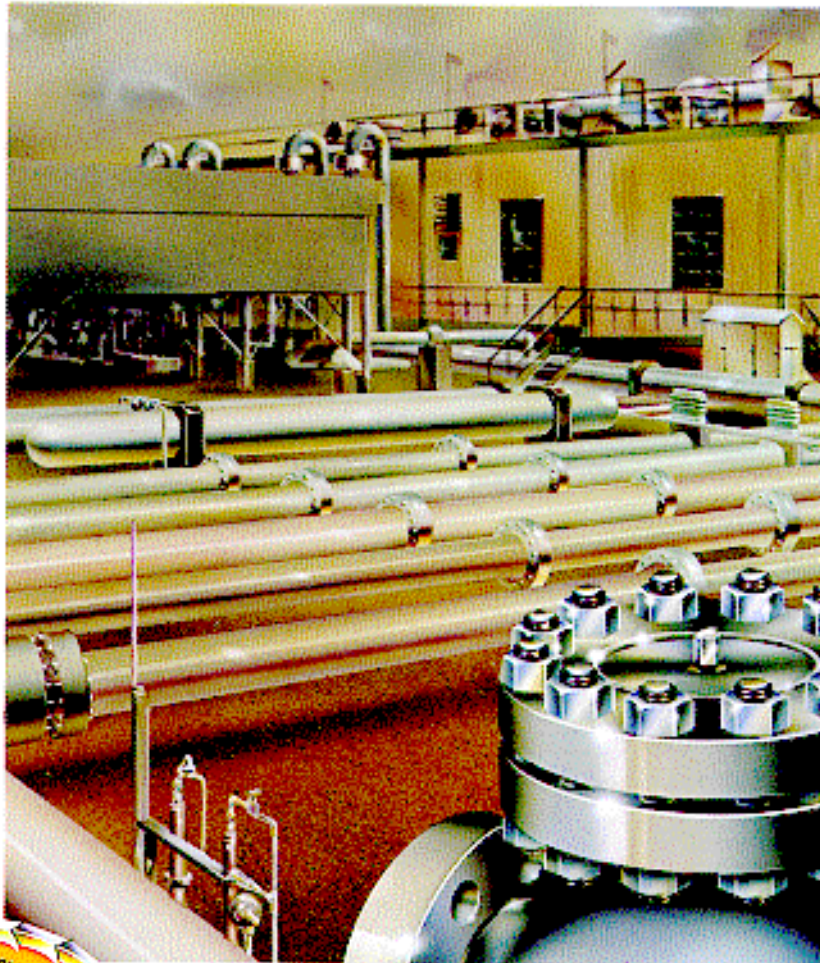
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Daniel Valve Company

Piston Controlled Check Valves

CATALOG 300



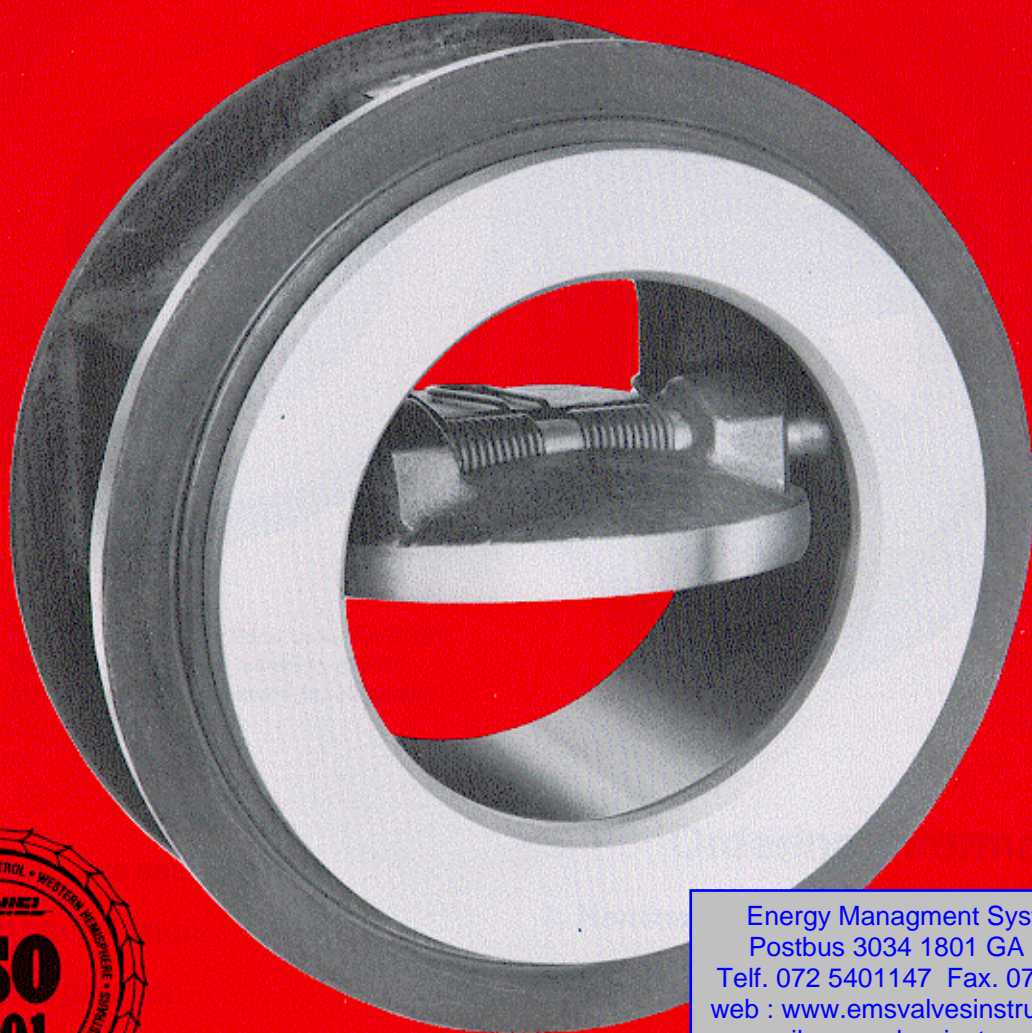
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CHEXTER® CHECK VALVES



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*The Lightweight Check Valve
in the Space-Saving Shape*