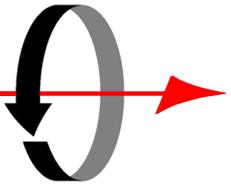


Apresentação Geral



Os 3 negócios Deublin



O maior fabricante mundial de uniões rotativas de precisão.

A maior base instalada de sifões estacionários de alta velocidade.

Uniões elétricas para transmissão de sinal e/ou potência para máquinas rotativas

DEUBLIN®
Engineered for Performance

ROTATING UNIONS

water steam air hydraulic hot oil vacuum coolant custom applications
www.deublin.com

DEUBLIN®
Engineered for Performance

ROTATING JOINTS AND SIPHON SYSTEMS
For The Paper Industry

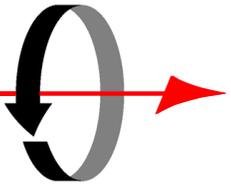
www.deublin.com

DEUBLIN®
Engineered for Performance

ELECTRICAL SLIP RINGS

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Porque Deublin?



História de avanços tecnológicos

Profundo conhecimento do projeto e engenharia da união

Uniões são nosso único negócio!

Escritórios em quatro continentes

Fabricação em três continentes



A maior gama de indústrias atendidas

Desenvolvimento constante de aplicações customizadas

- *Uniões rotativas*
- *Juntas de vapor & Sistemas de sifão*
- *Sistemas otimizados de vapor*
- *Slip Rings / Anéis deslizantes*

Fundada em 1945

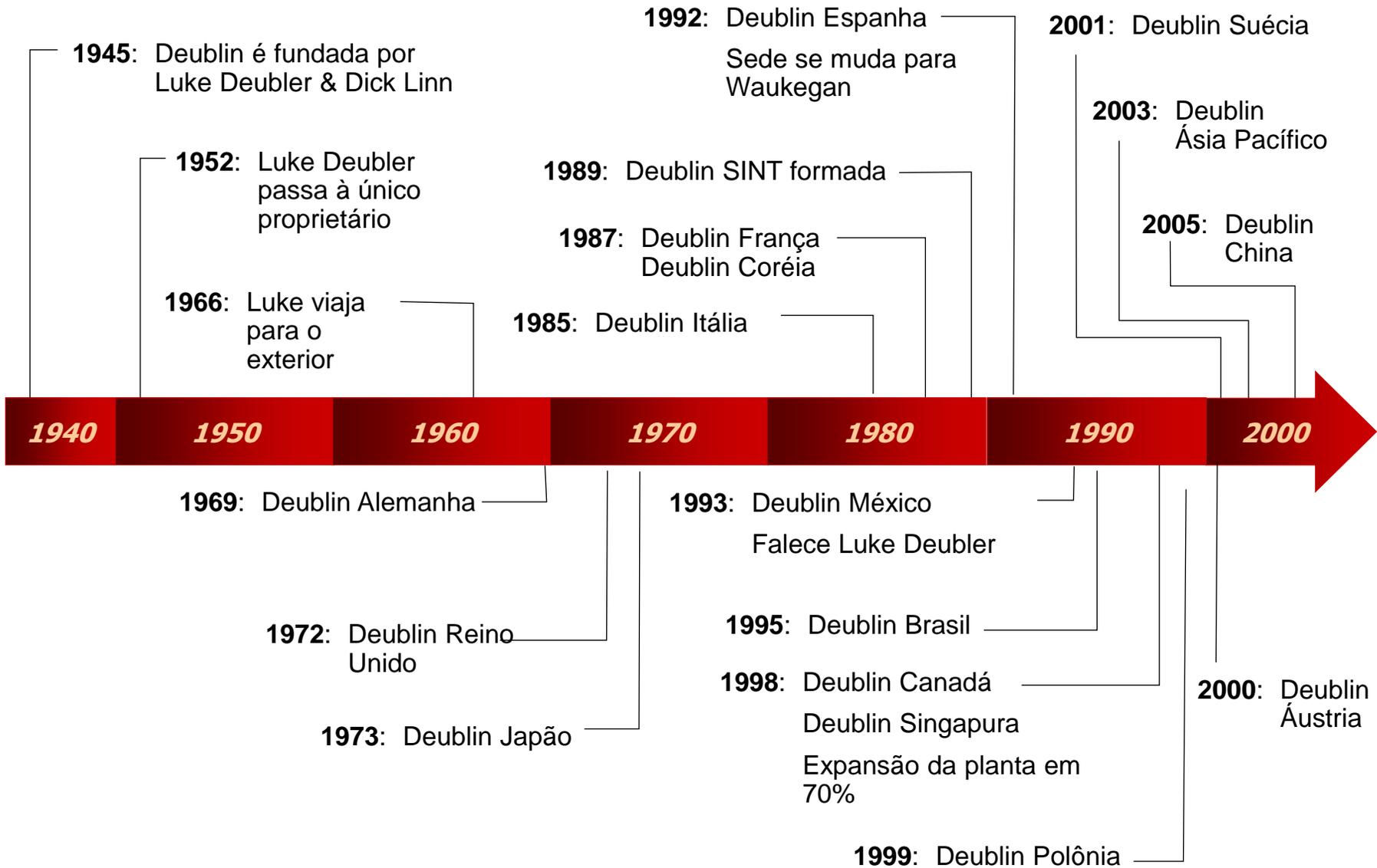
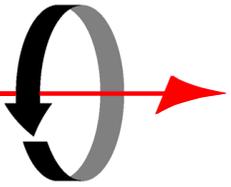
Presença internacional desde 1969

Atendimento técnico de campo

Cotações

Entrega

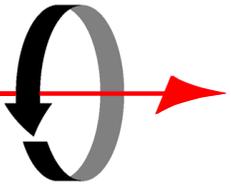
74 anos de crescimento



We Haven't Started Yet!

Nós não tínhamos começado ainda!

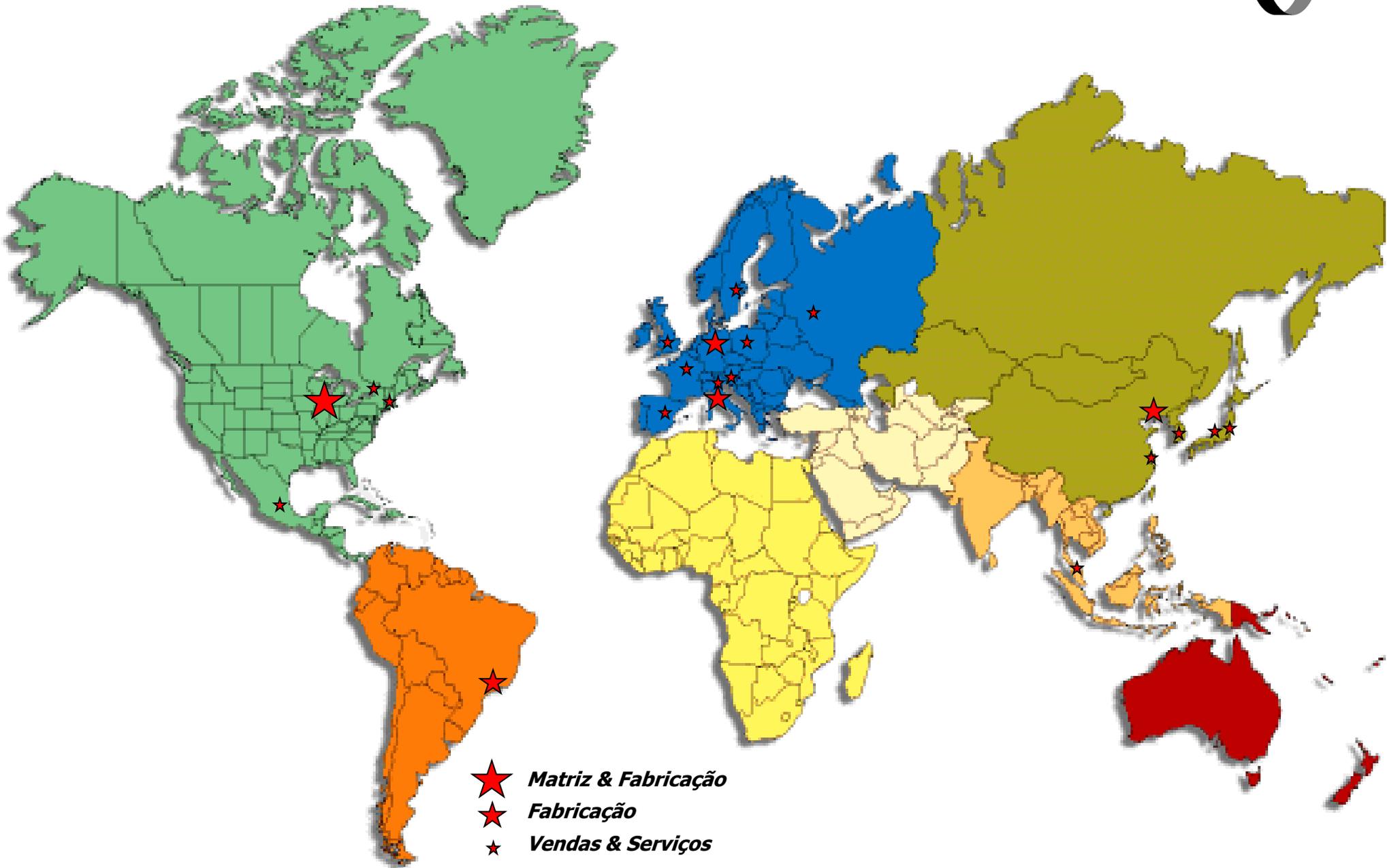
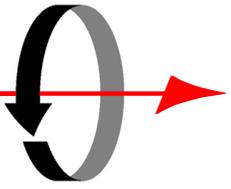
74 anos de crescimento



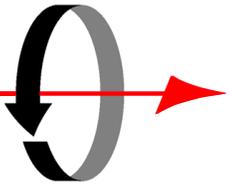
We Haven't Started Yet!

Nós não tínhamos começado ainda!

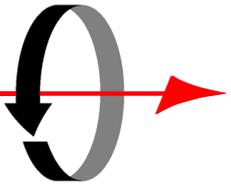
Deublin ao redor do mundo



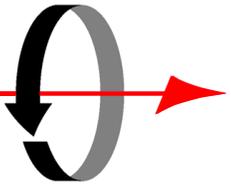
Deublin Company (Estados Unidos)



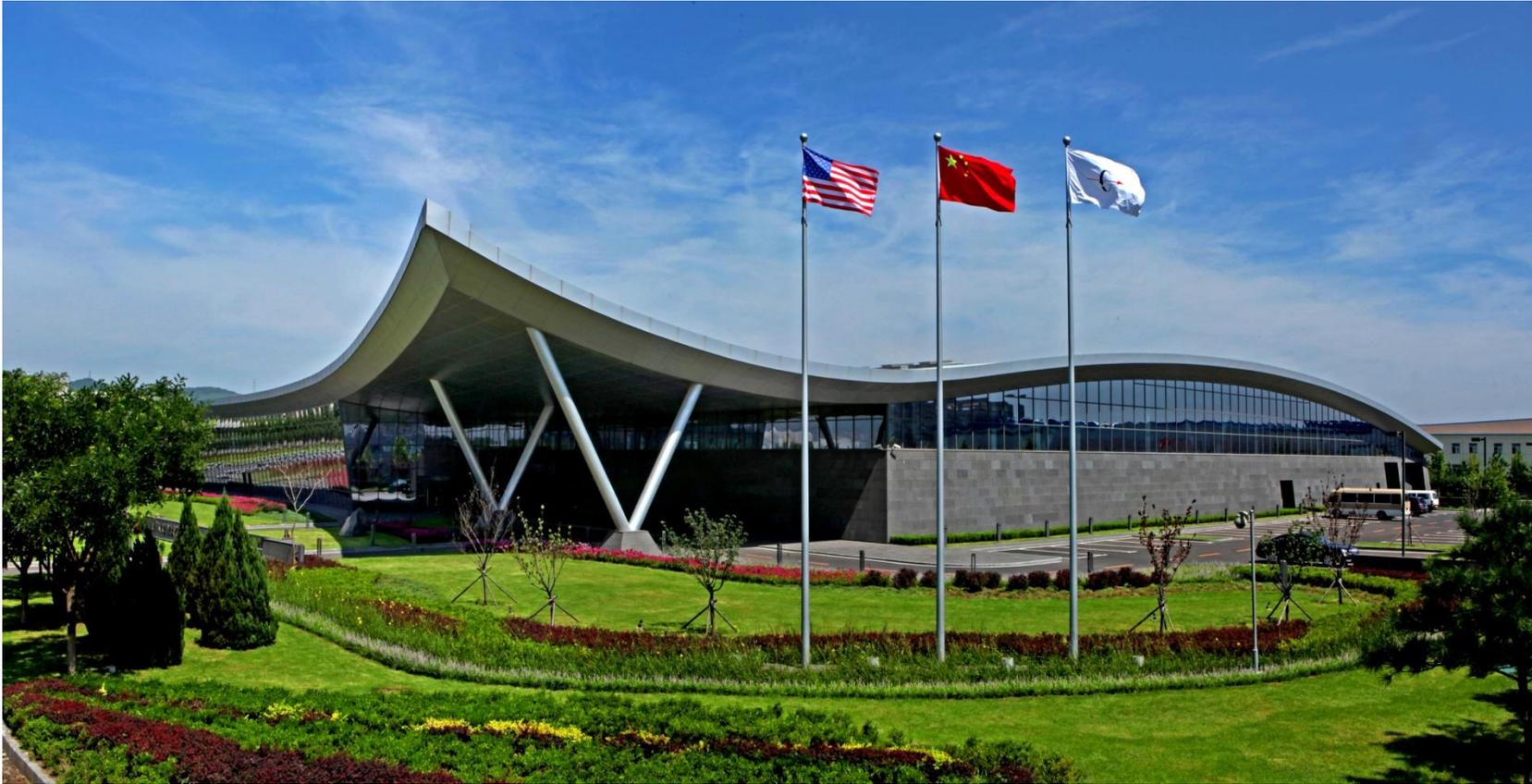
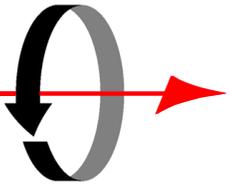
Deublin GmbH (Alemanha)



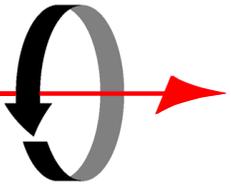
Deublin Italiana (Itália)



Deublin Dalian (China)



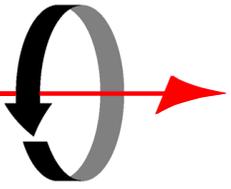
Deublin Brasil



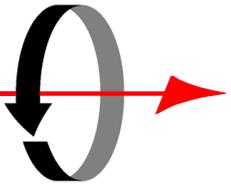
Av. Fagundes de Oliveira, 538 - Galpão A11
Piraporinha - Diadema - São Paulo

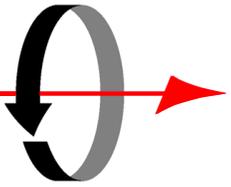


Deublin Brasil



Deublin Brasil - Reparos (Service)

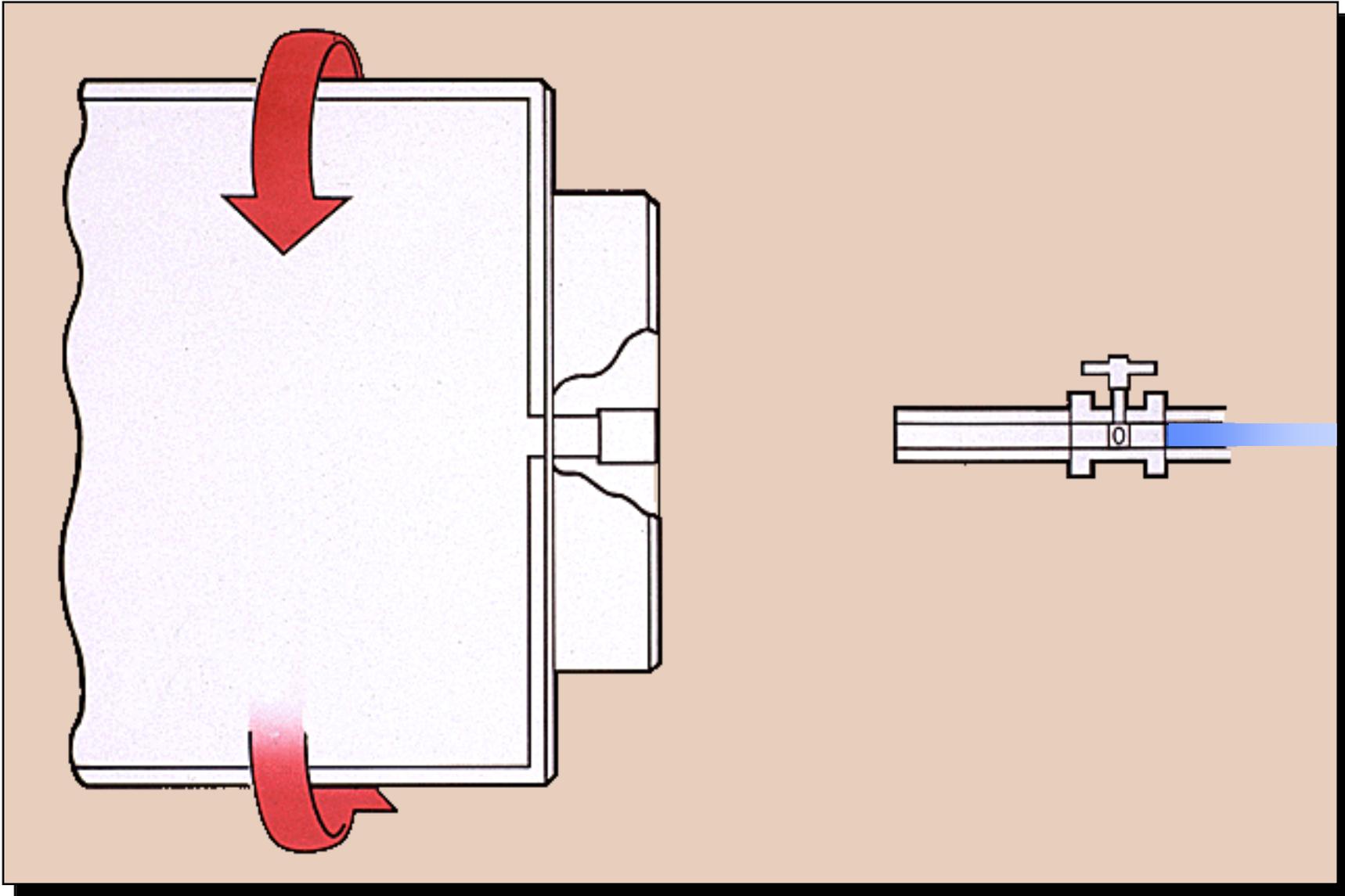
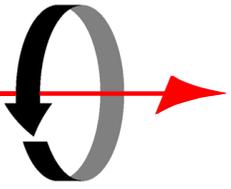




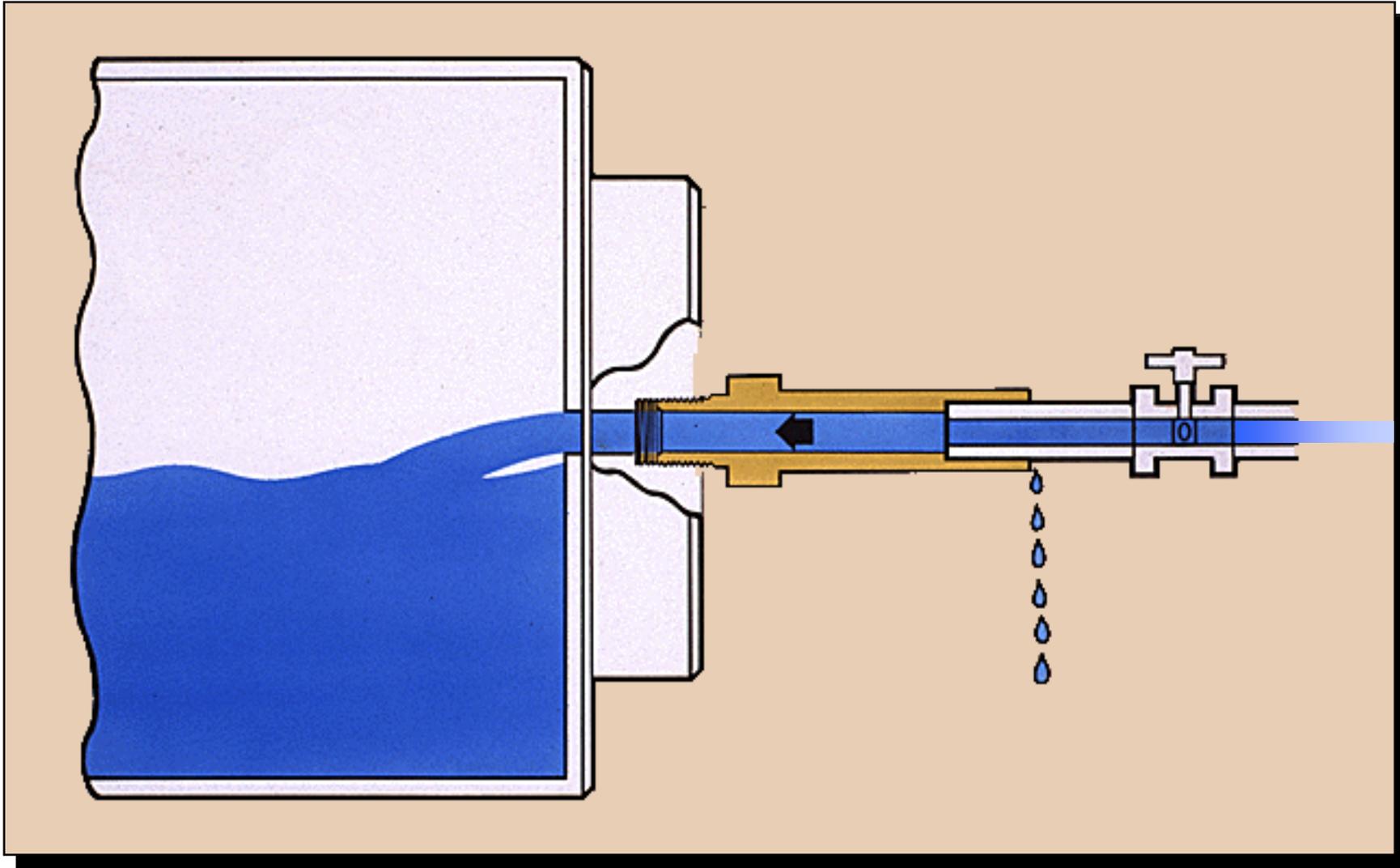
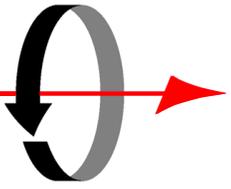
Fundamentos Gerais

União Rotativas

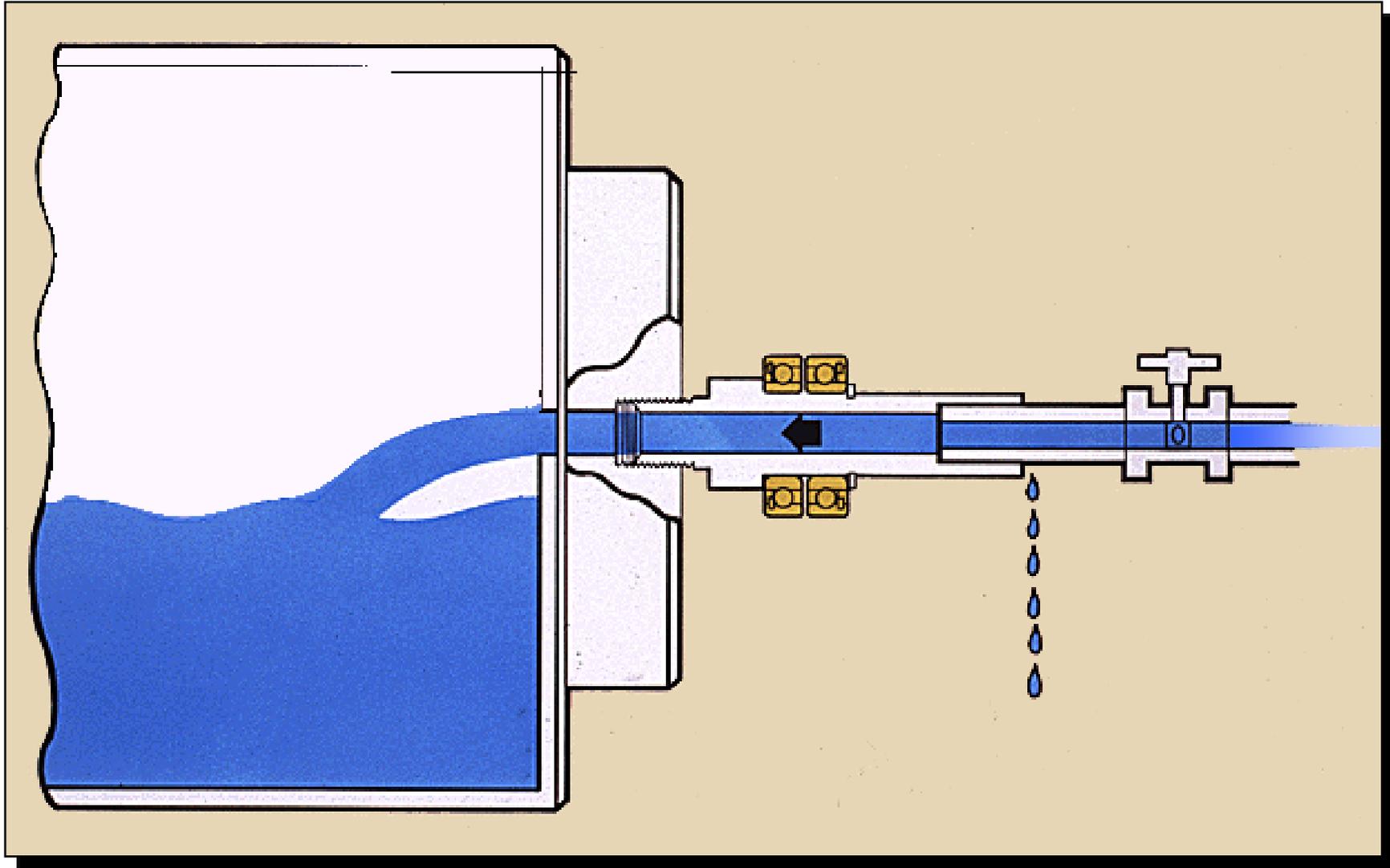
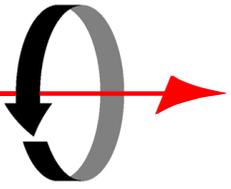
Fundamentos técnicos das uniões



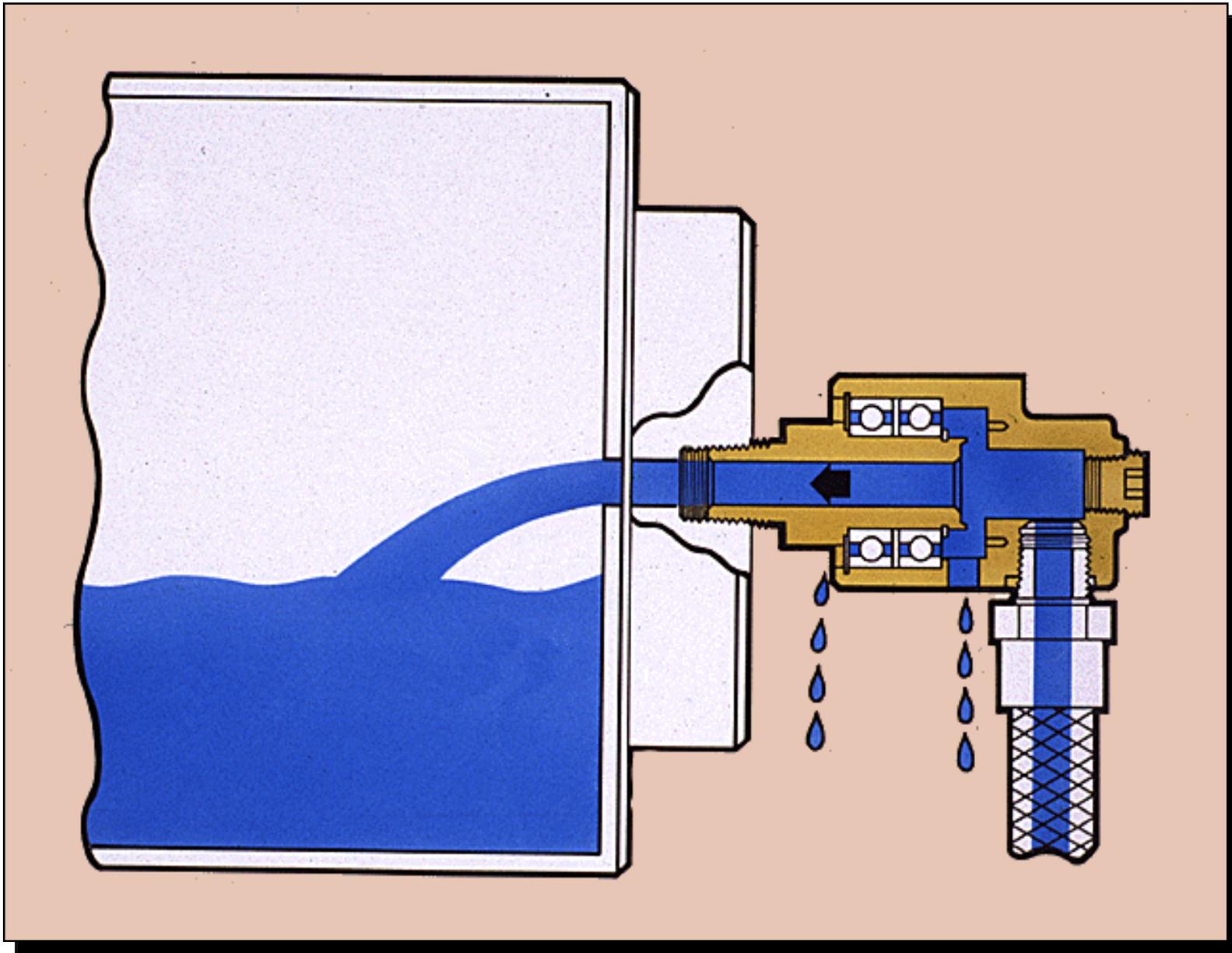
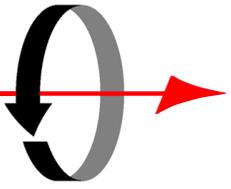
Fundamentos técnicos das uniões



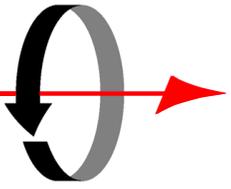
Fundamentos técnicos das uniões



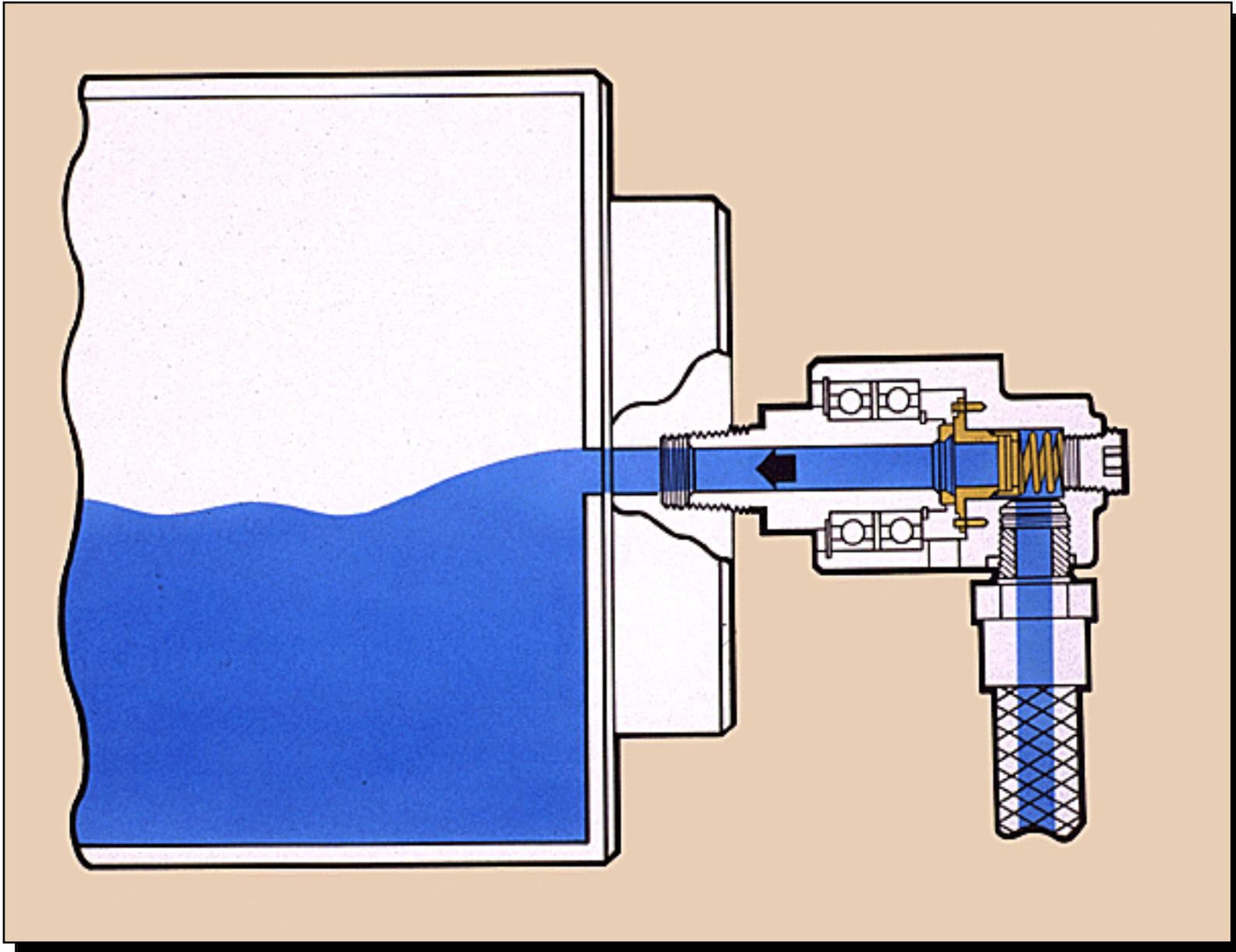
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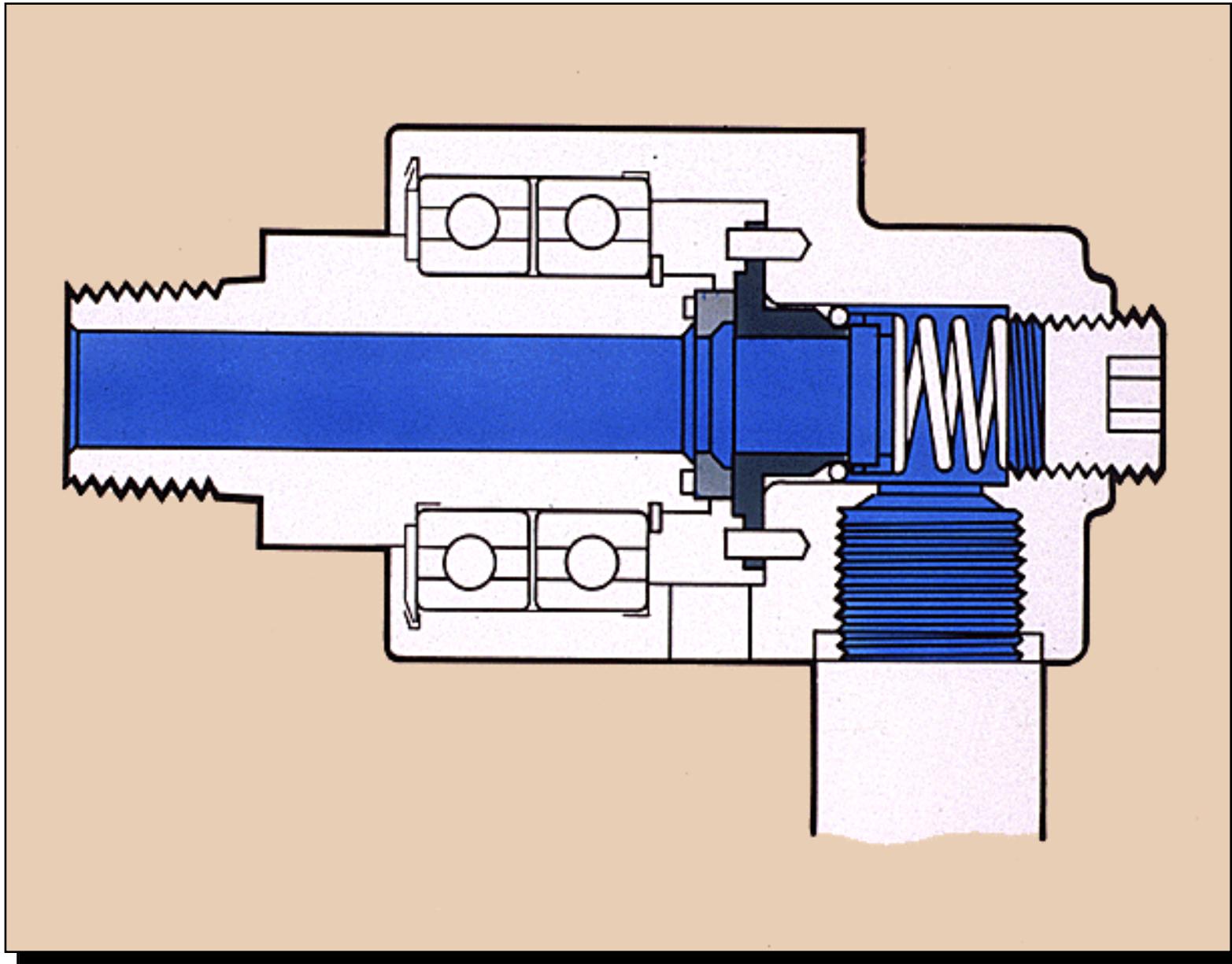
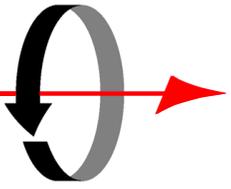
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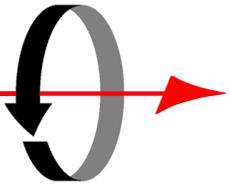
União Rotativa Fluxo Único



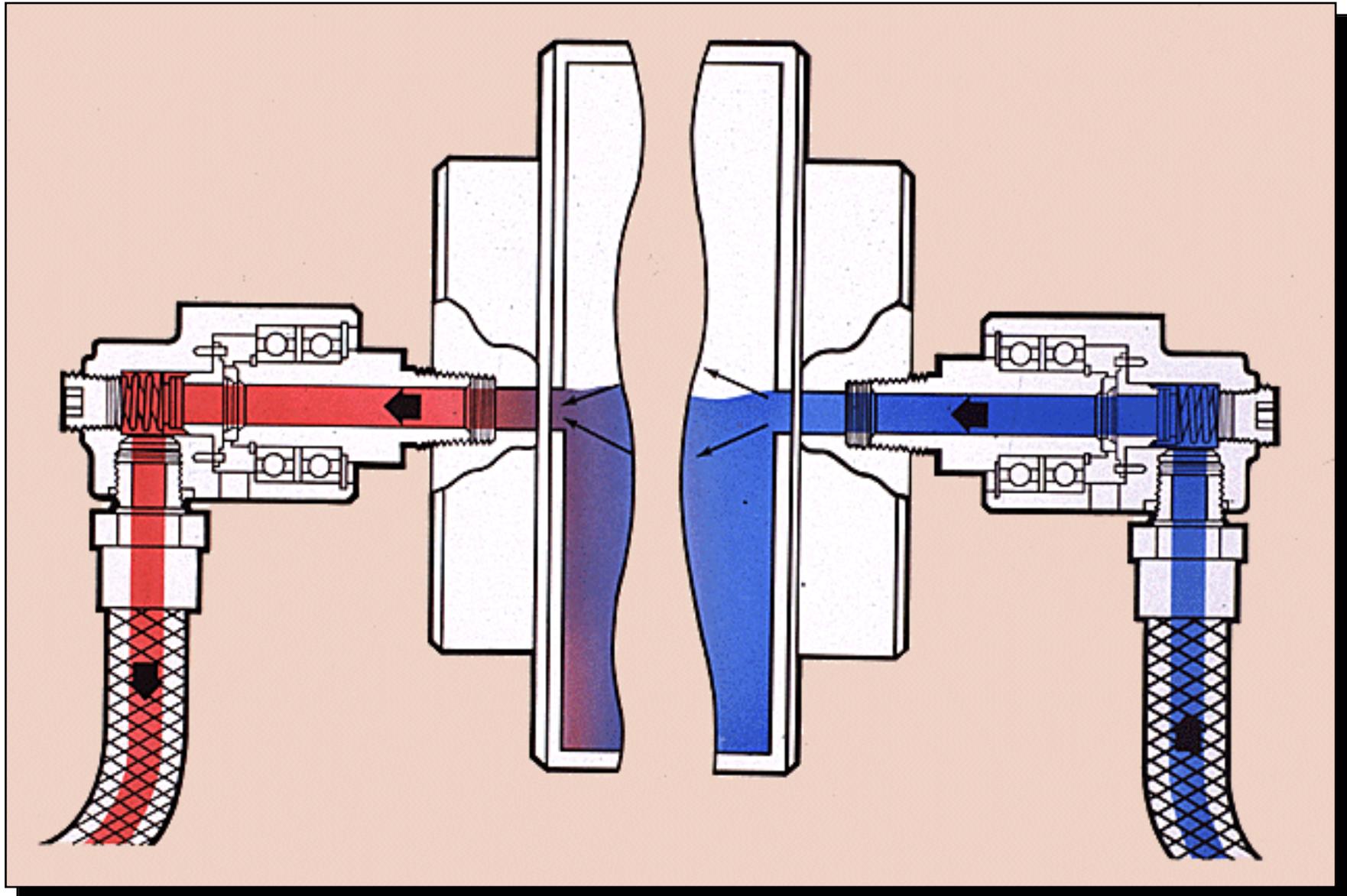
Fundamentos técnicos das uniões



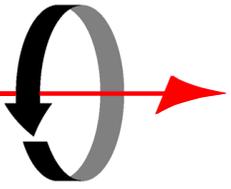
Fundamentos técnicos das uniões



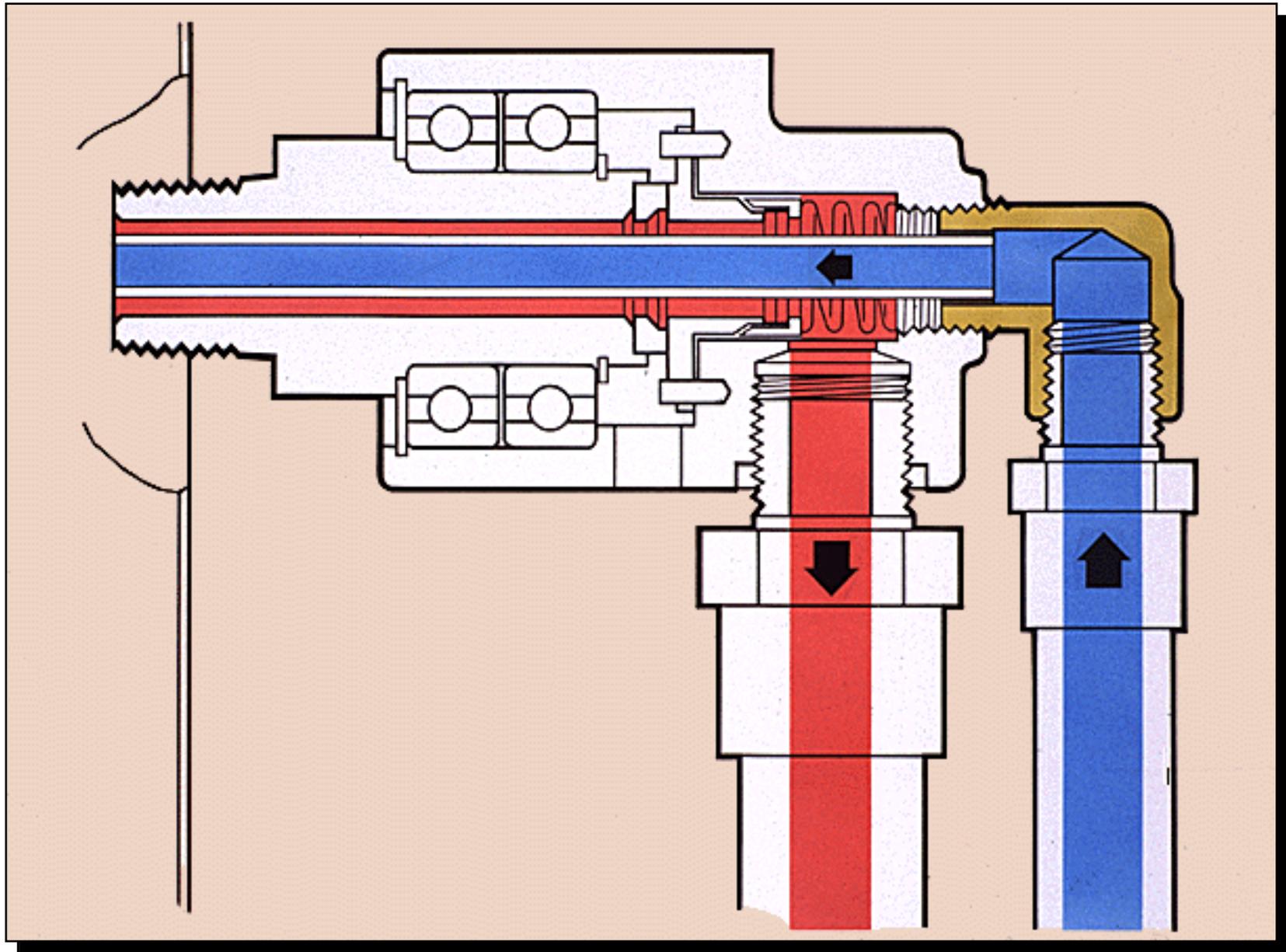
União Rotativa Fluxo Único



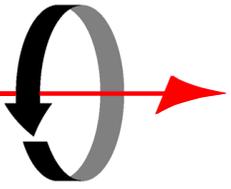
Fundamentos técnicos das uniões



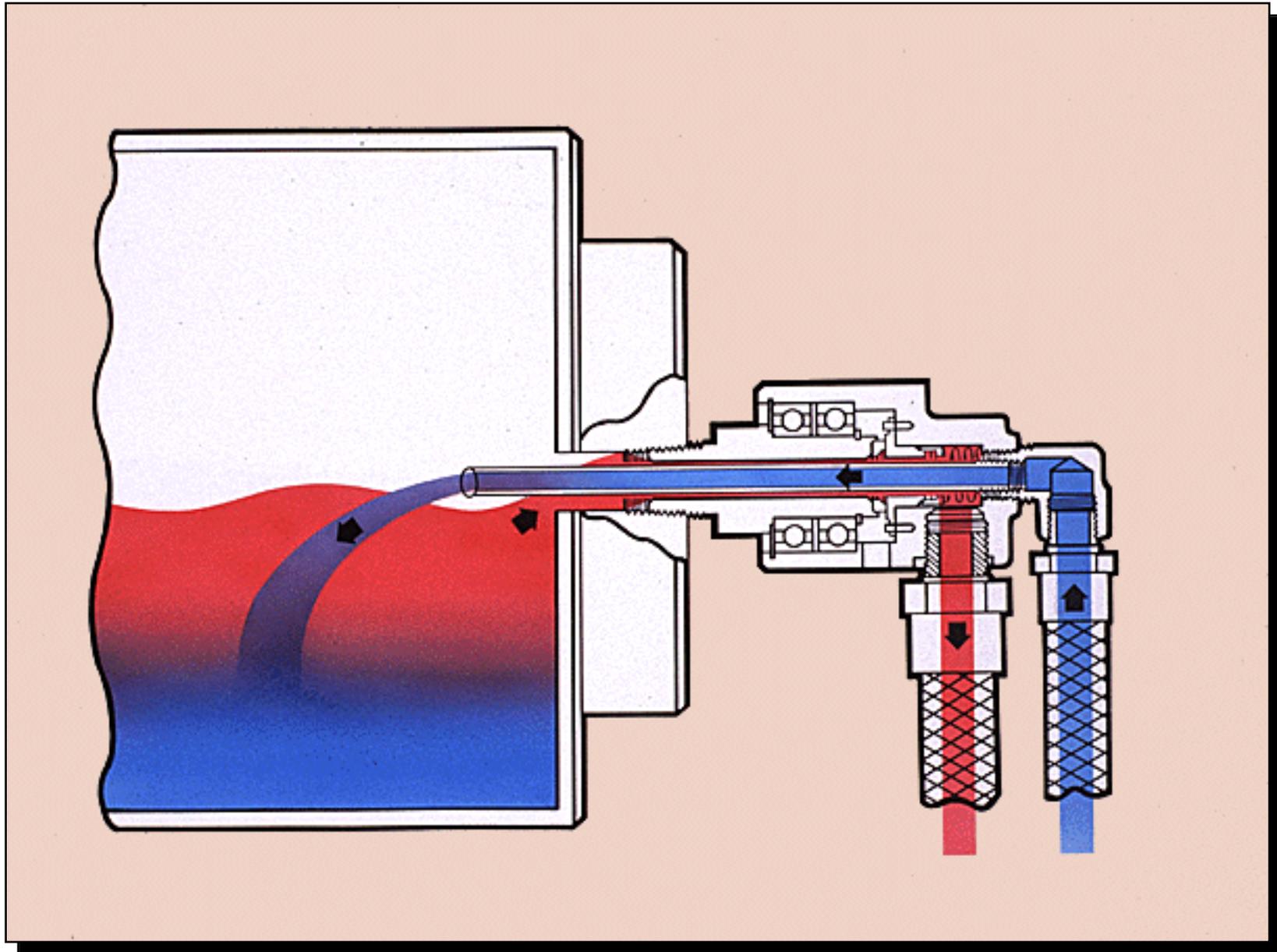
União Rotativa Fluxo Duplo



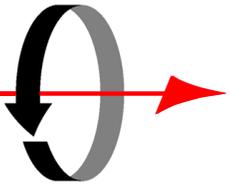
Fundamentos técnicos das uniões



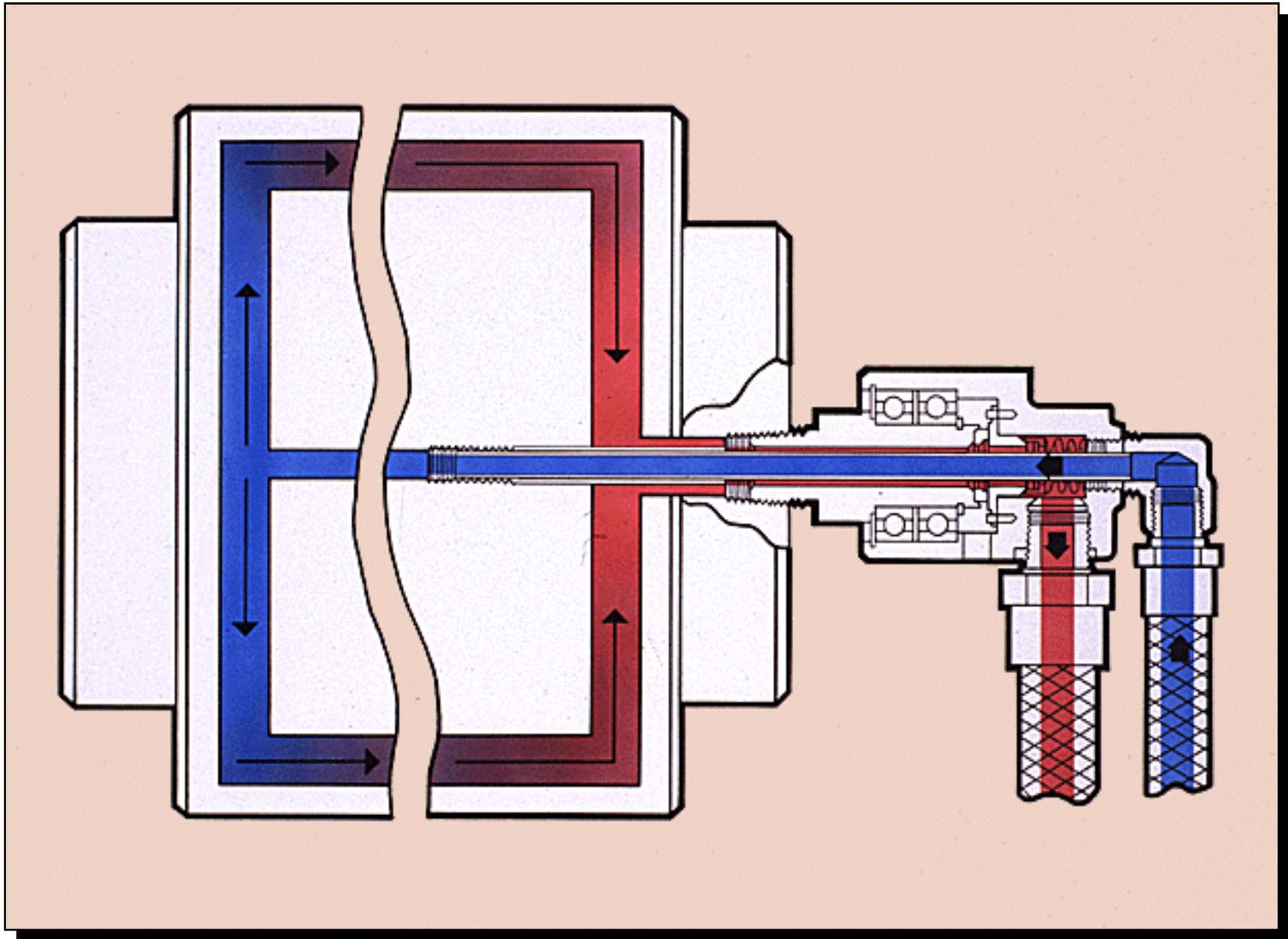
União Rotativa Fluxo Duplo



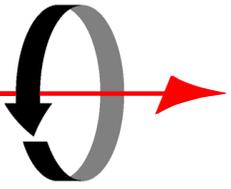
Fundamentos técnicos das uniões



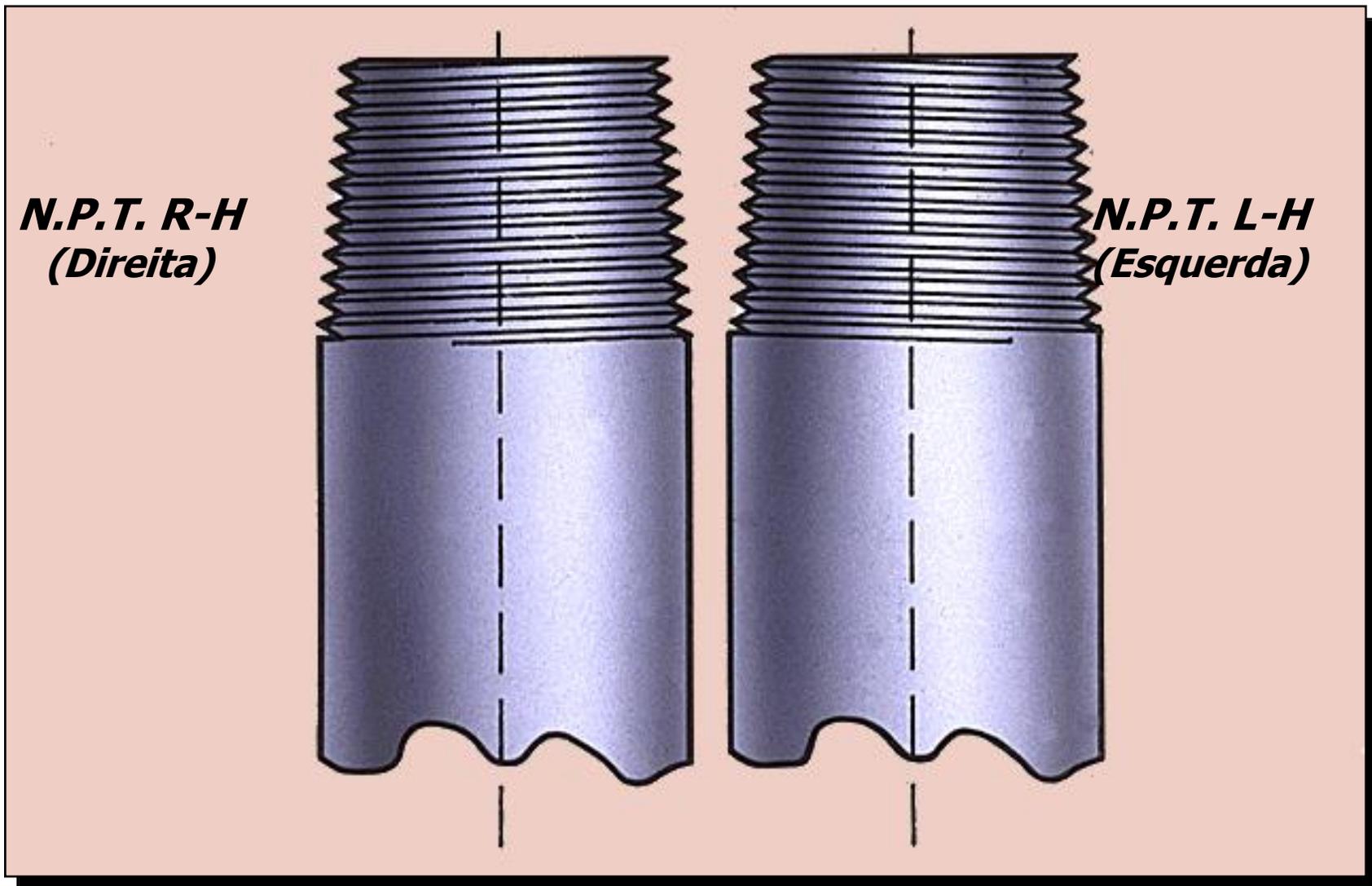
União Rotativa Fluxo Duplo



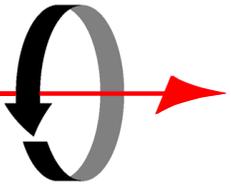
Fundamentos técnicos das uniões



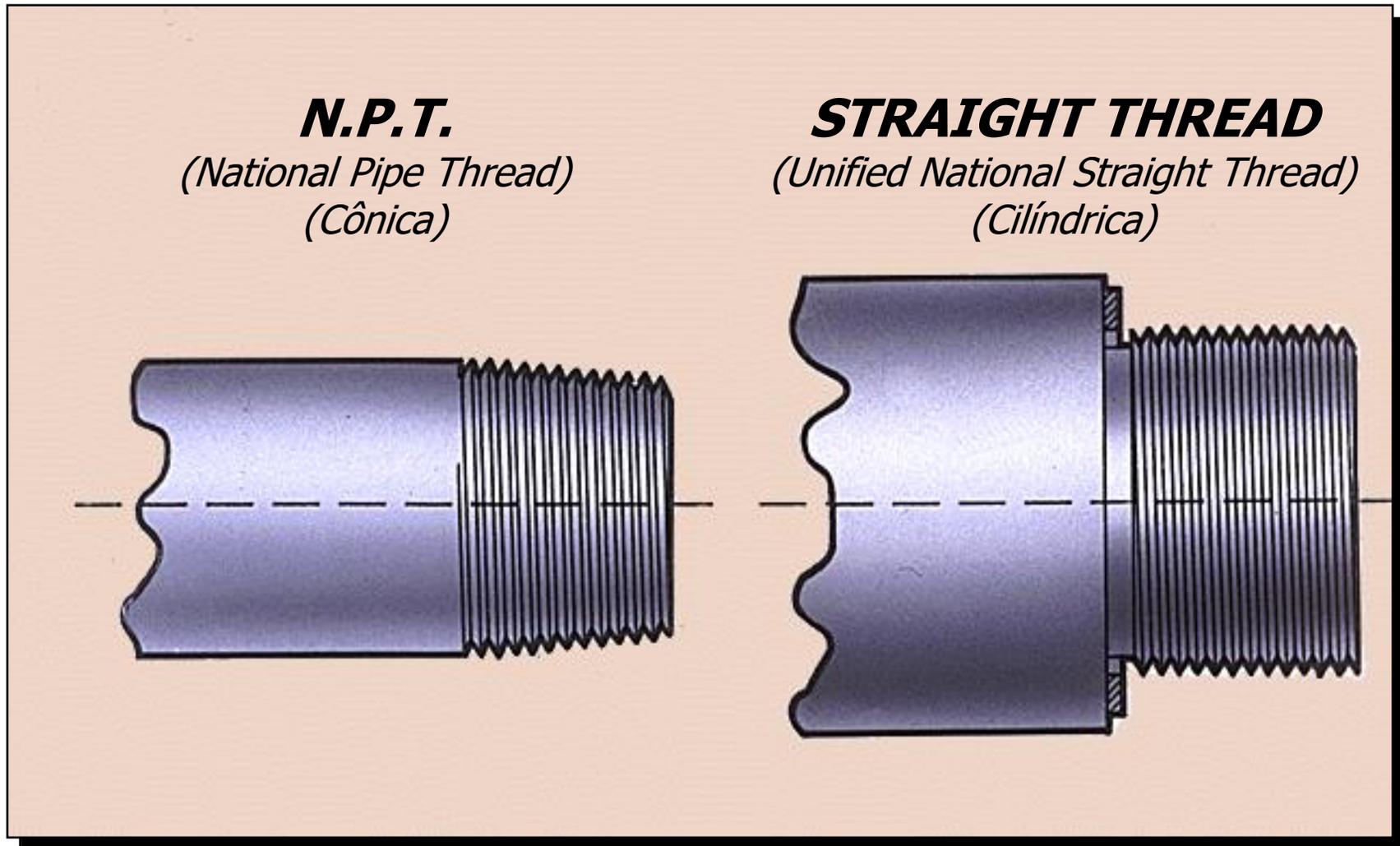
Tipos de roscas: NPT (cônicas)



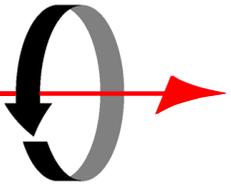
Fundamentos técnicos das uniões



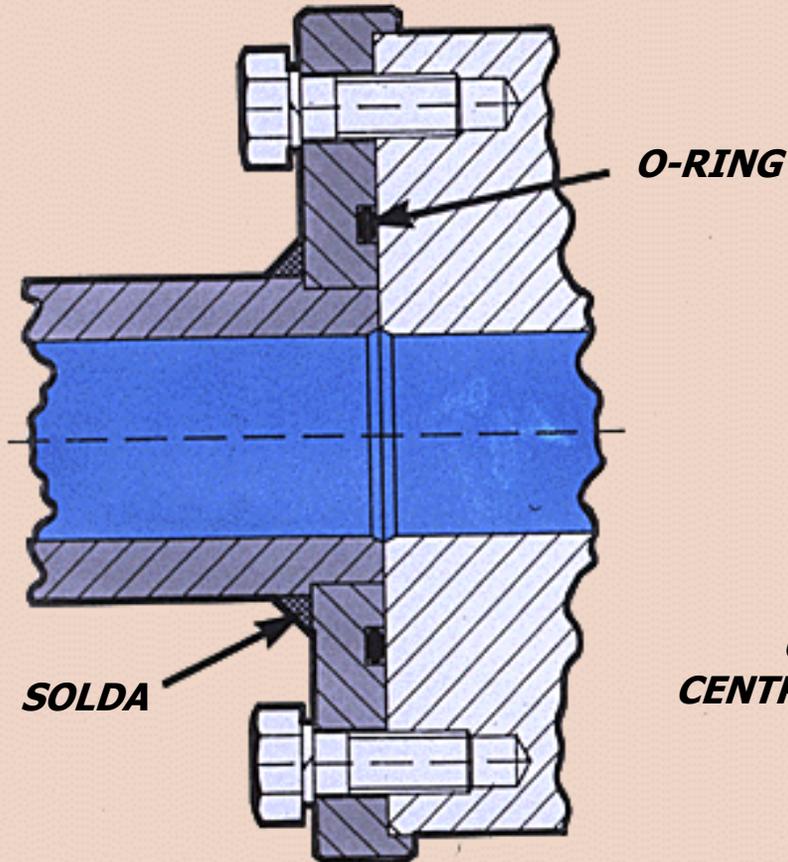
Tipos de roscas: NPT x BSP



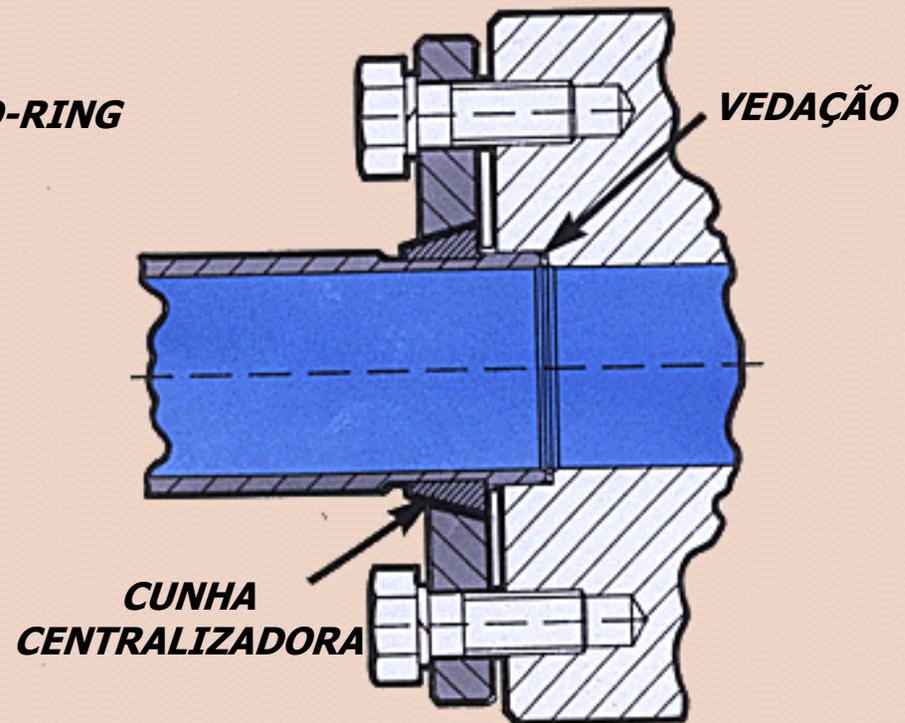
Fundamentos técnicos das uniões



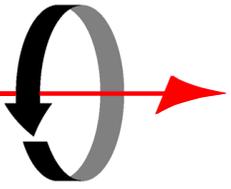
ROTOR FLANGEADO



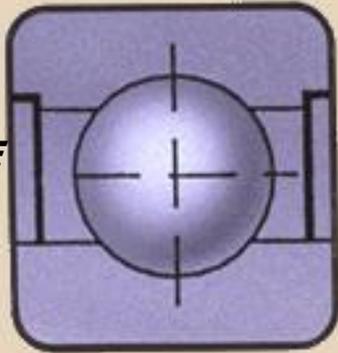
ROTOR CONEXÃO RÁPIDA



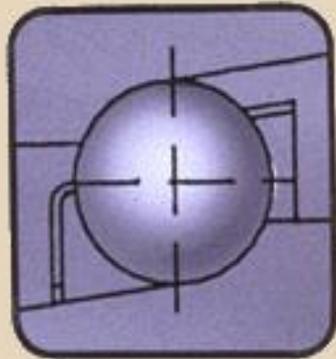
Fundamentos técnicos das uniões



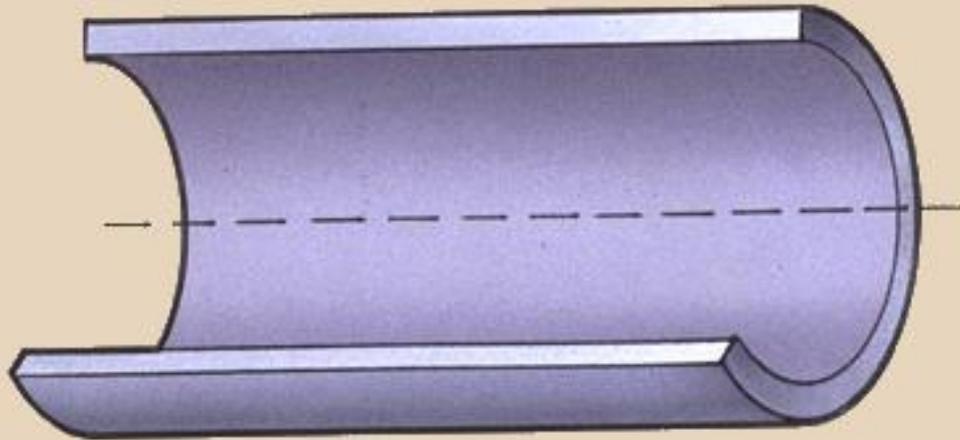
**ROLAMENTO DE
ESFERAS**



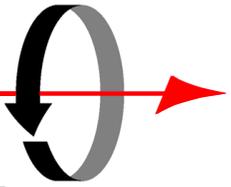
**ROLAMENTO DE
CONTATO
ANGULAR**



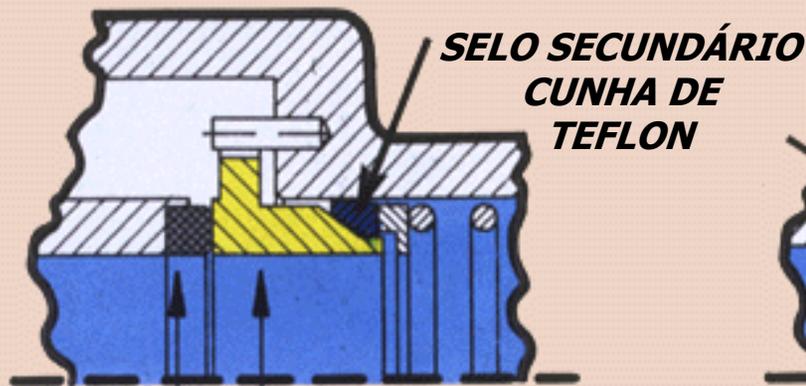
BUCHA TIPO LUVA



Fundamentos técnicos das uniões



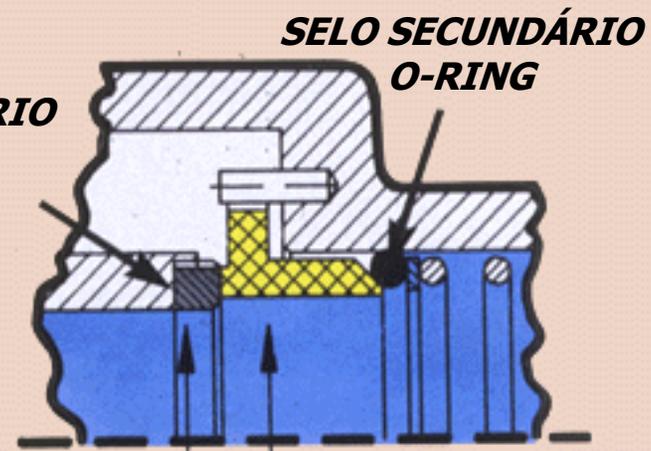
**SELO MECÂNICO
BALANCEADO
(SÉRIE 55)**



ROTATIVO
FACE DE GRAFITE TRAVADA

ESTACIONÁRIO
(BRONZE)

**SELO MECÂNICO
BALANCEADO
(SÉRIE 57)**

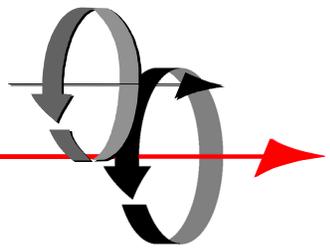


**SELO SECUNDÁRIO
O-RING**

ROTATIVO
FACE DE CARBETO DE SILÍCIO
SUBSTITUÍVEL

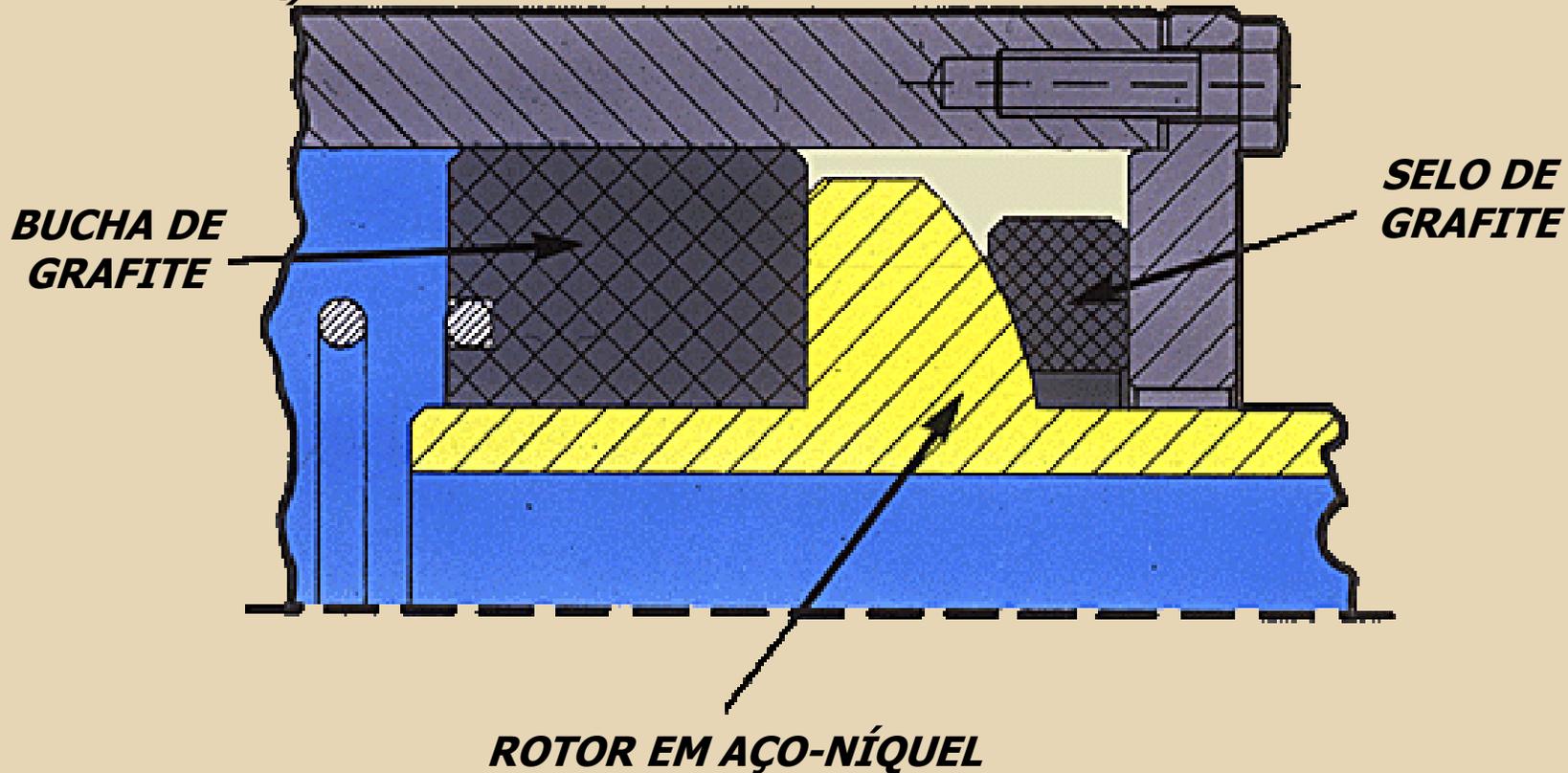
ESTACIONÁRIO
GRAFITE

Fundamentos técnicos das uniões

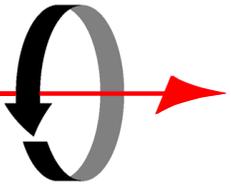


Selo de grafite em compressão

(Série 9000)



Cuidados na Instalação



Instruções de Instalação da Mangueira Flexível para as Juntas Rotativas DEUBLIN



1 Monte o corpo em uma morsa e instale a mangueira.

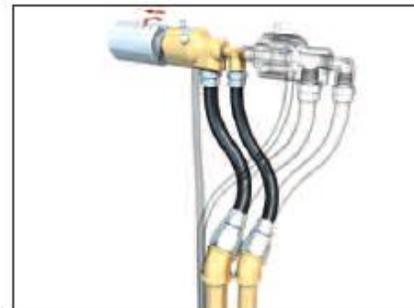


2 Instale a junta rotativa na máquina.

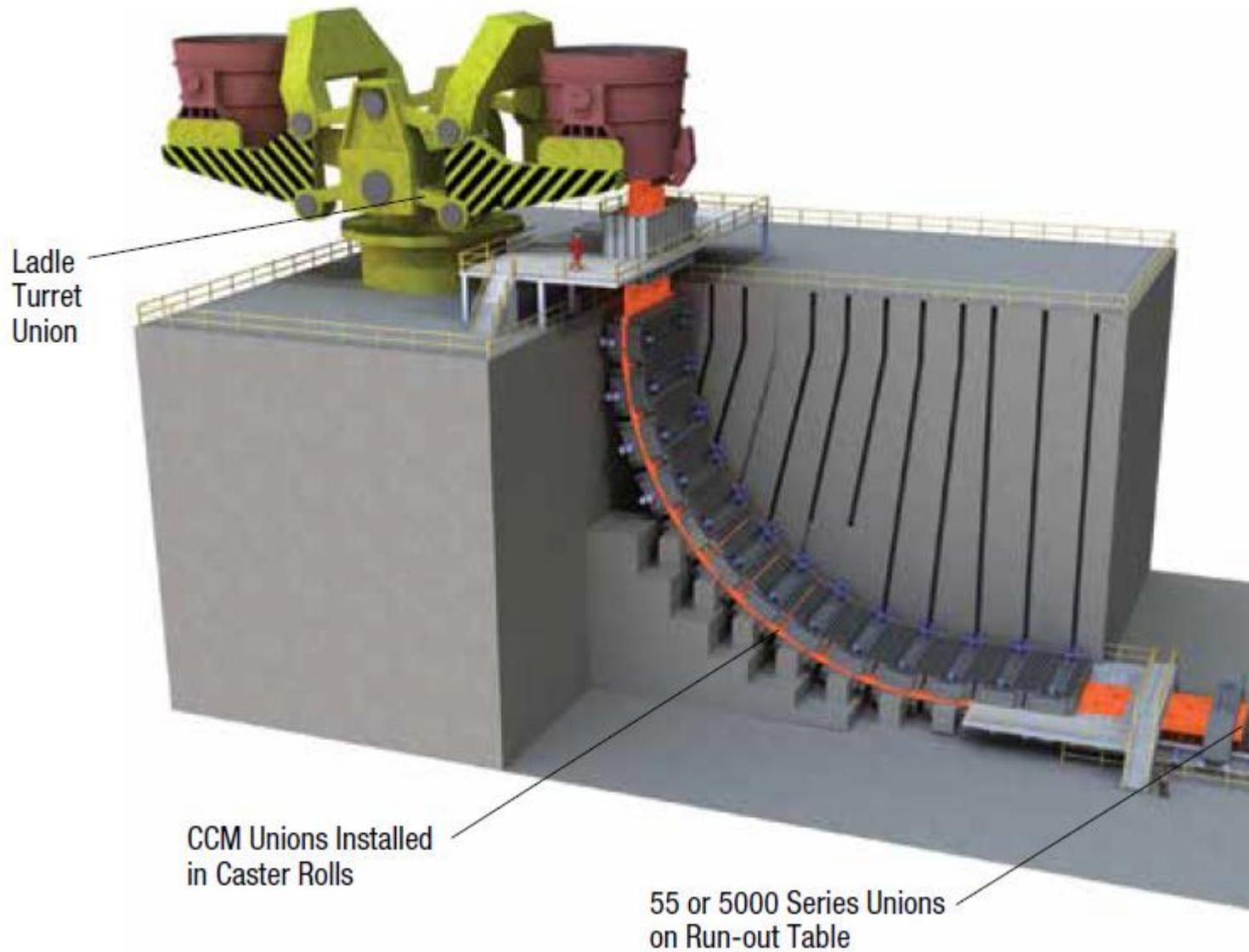
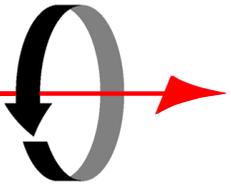


3 Conecte a mangueira flexível à linha de alimentação.

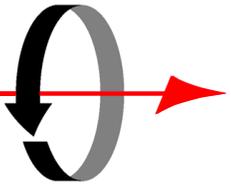
Exemplos de Instalação da Mangueira Flexível



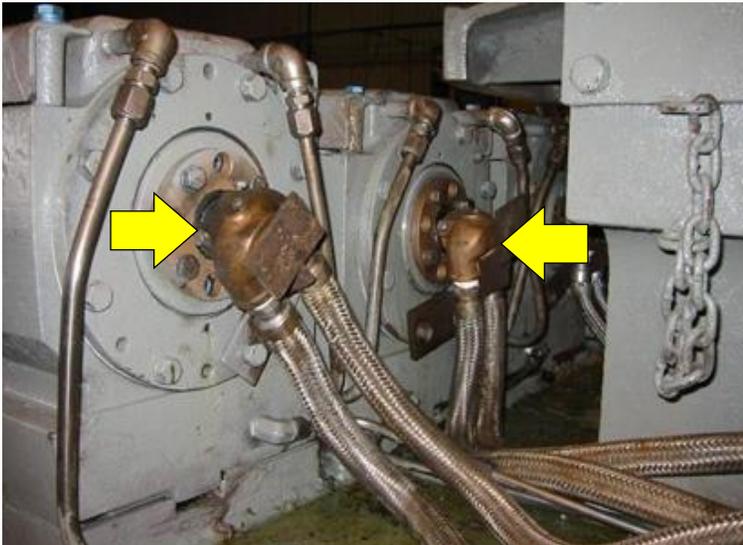
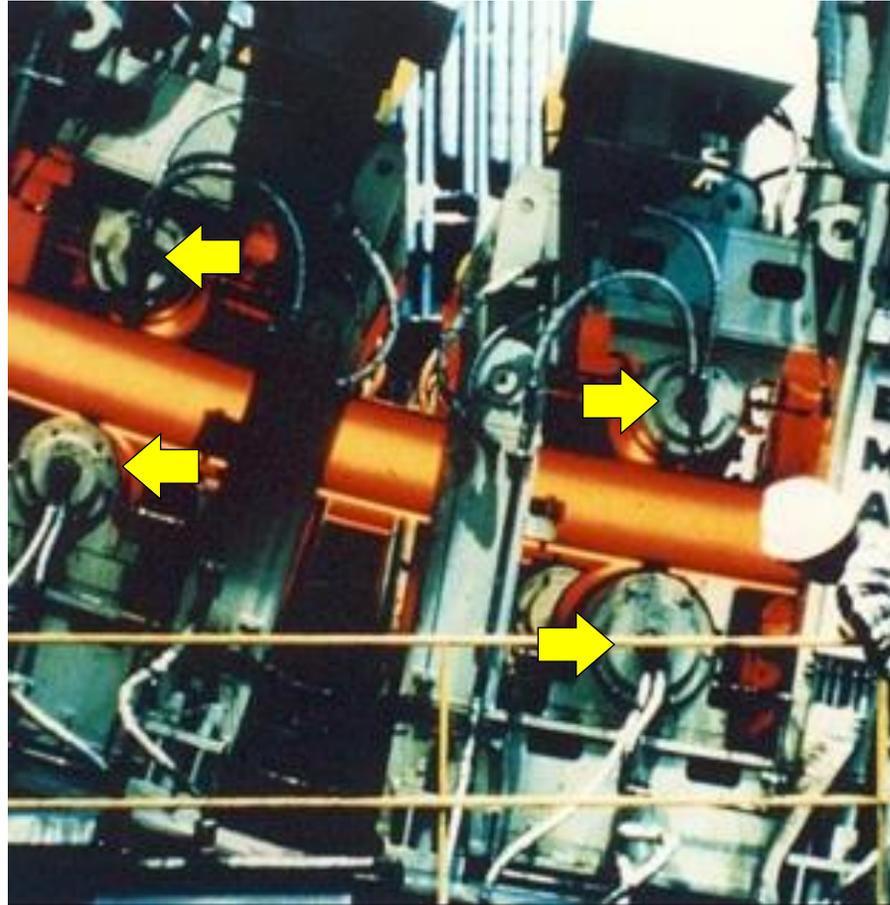
Indústrias siderúrgicas



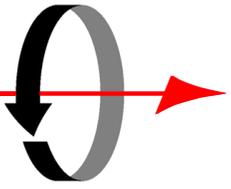
Lingotamento contínuo de aço



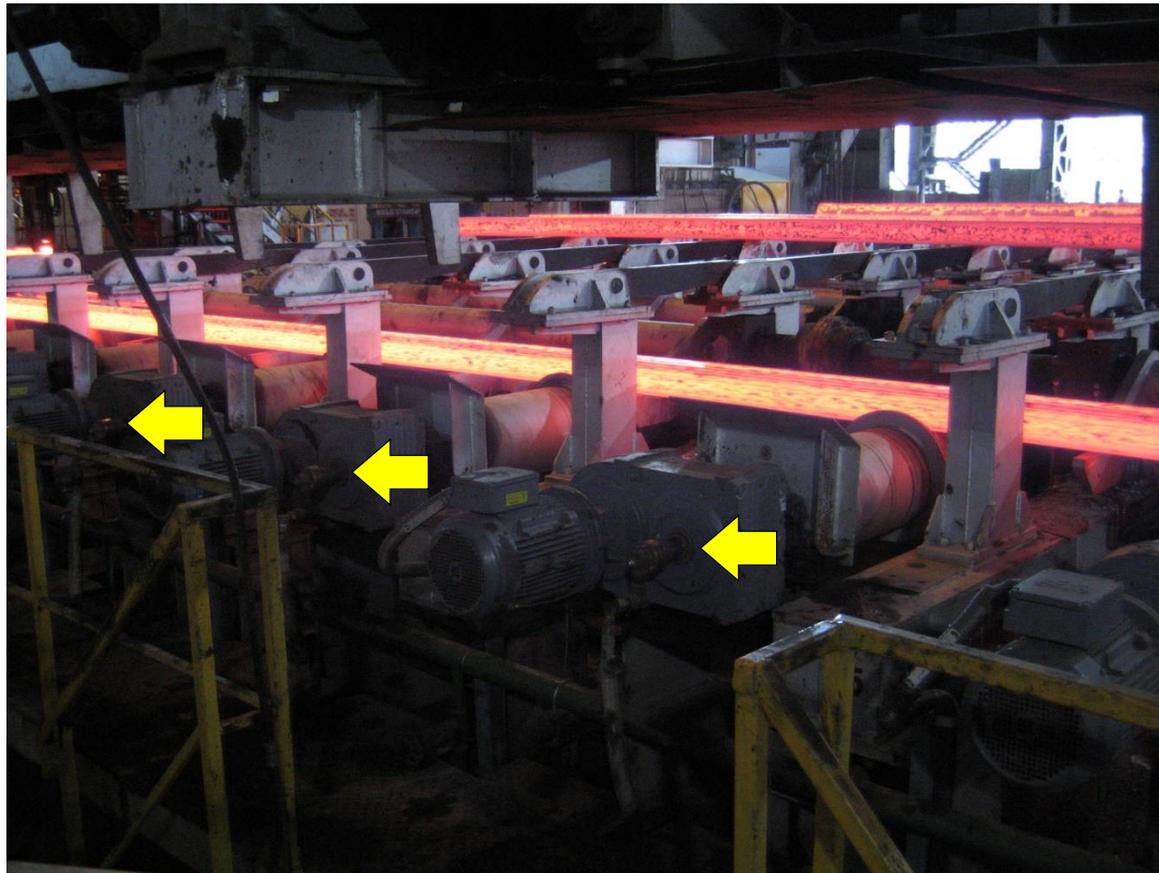
**Deublin Série 2400
(rolos de lingotamento)**



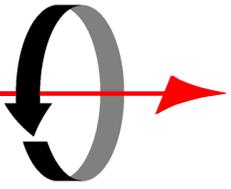
Lingotamento contínuo de aço



Deublin Série 55 / 57 (mesa de rolos)



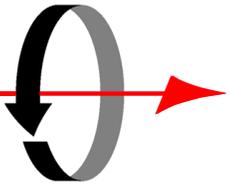
Acionamentos hidráulicos



Deublin Série 2117 (Aciaria)



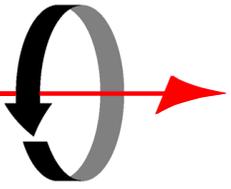
Forjarias



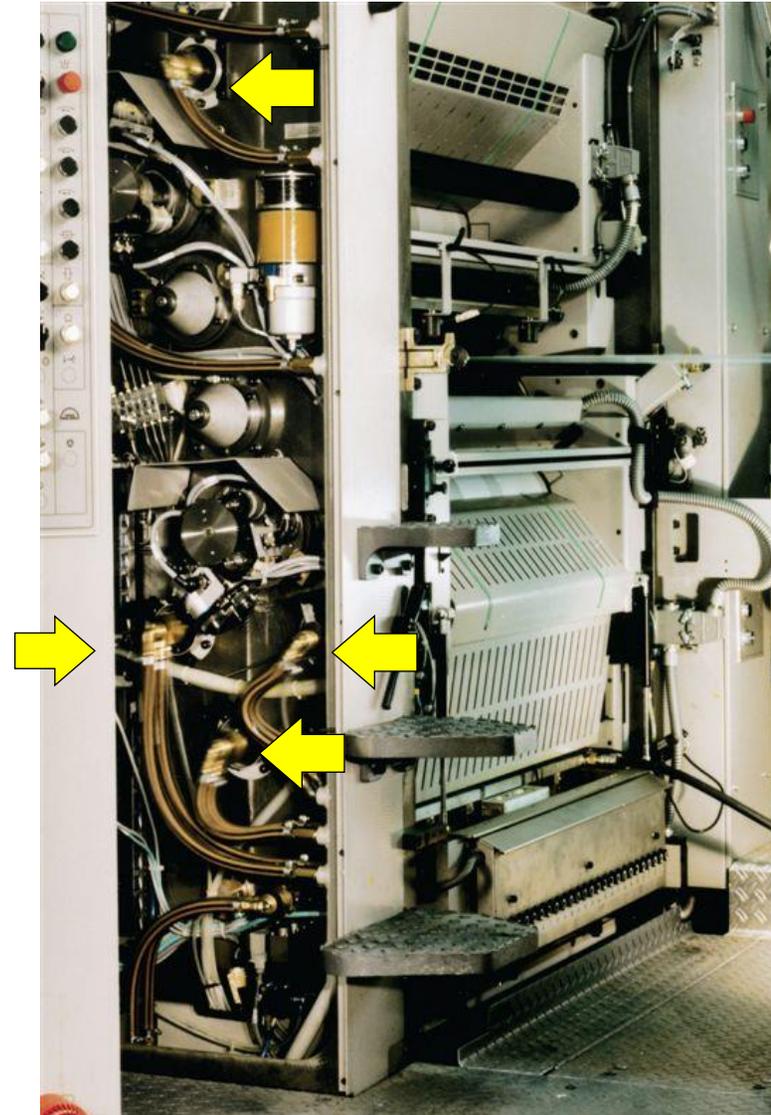
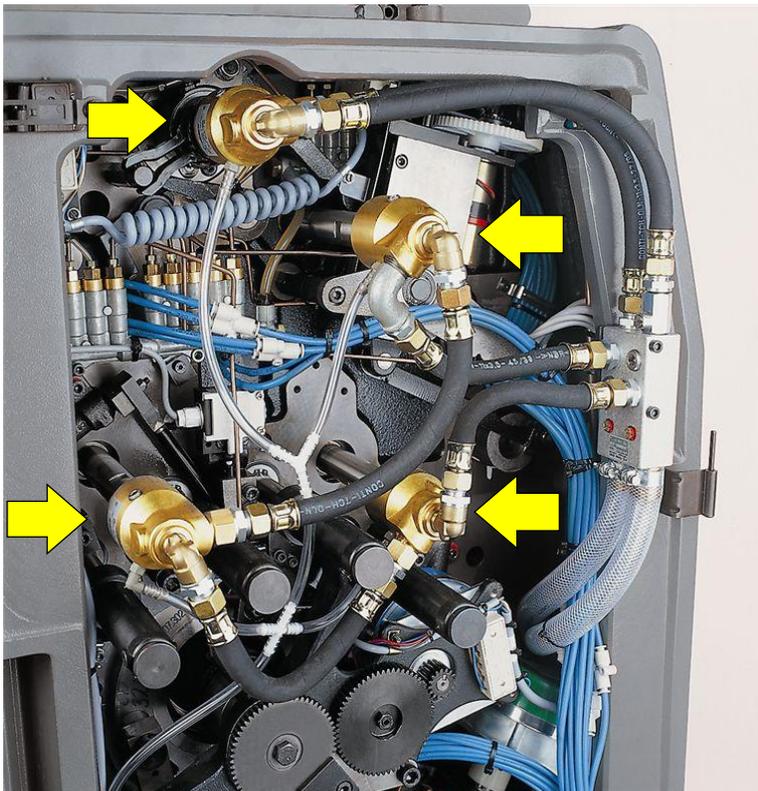
Deublin Série 55



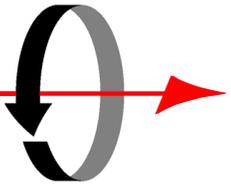
Indústrias gráficas



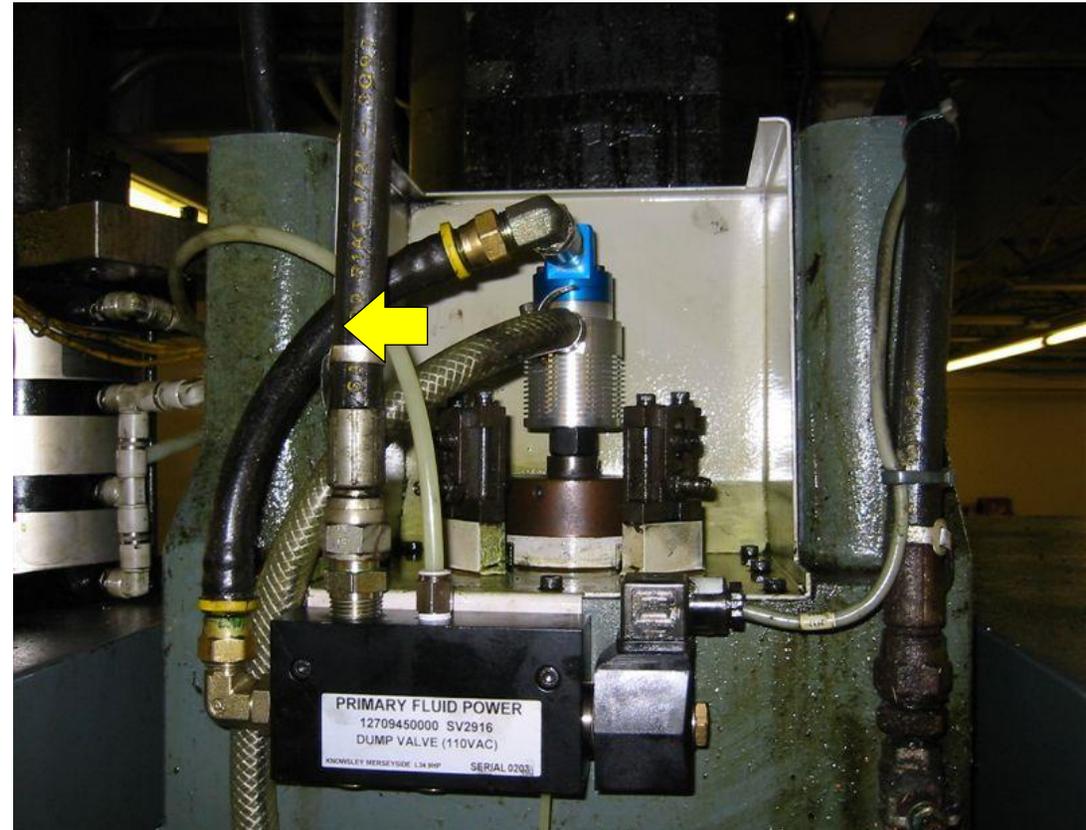
Deublin Série 57



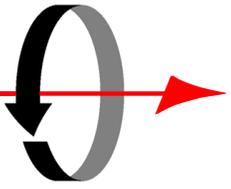
Indústrias de usinagem



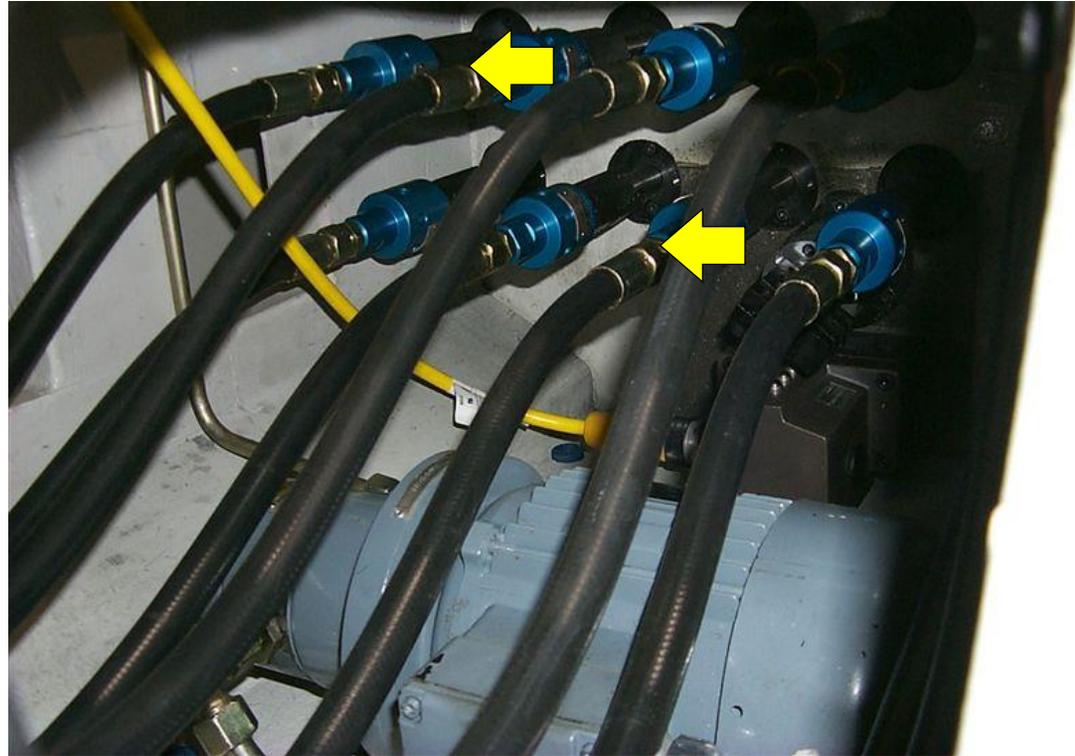
Deublin 1109



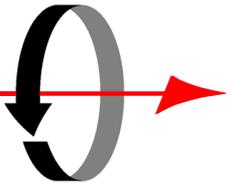
Indústrias de usinagem



Deublin 1116



Indústria de papel



Deublin Série FSU



Deublin DMS

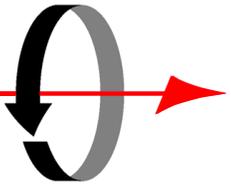


Deublin FSU



Deublin H

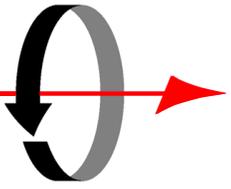
Indústria de papel



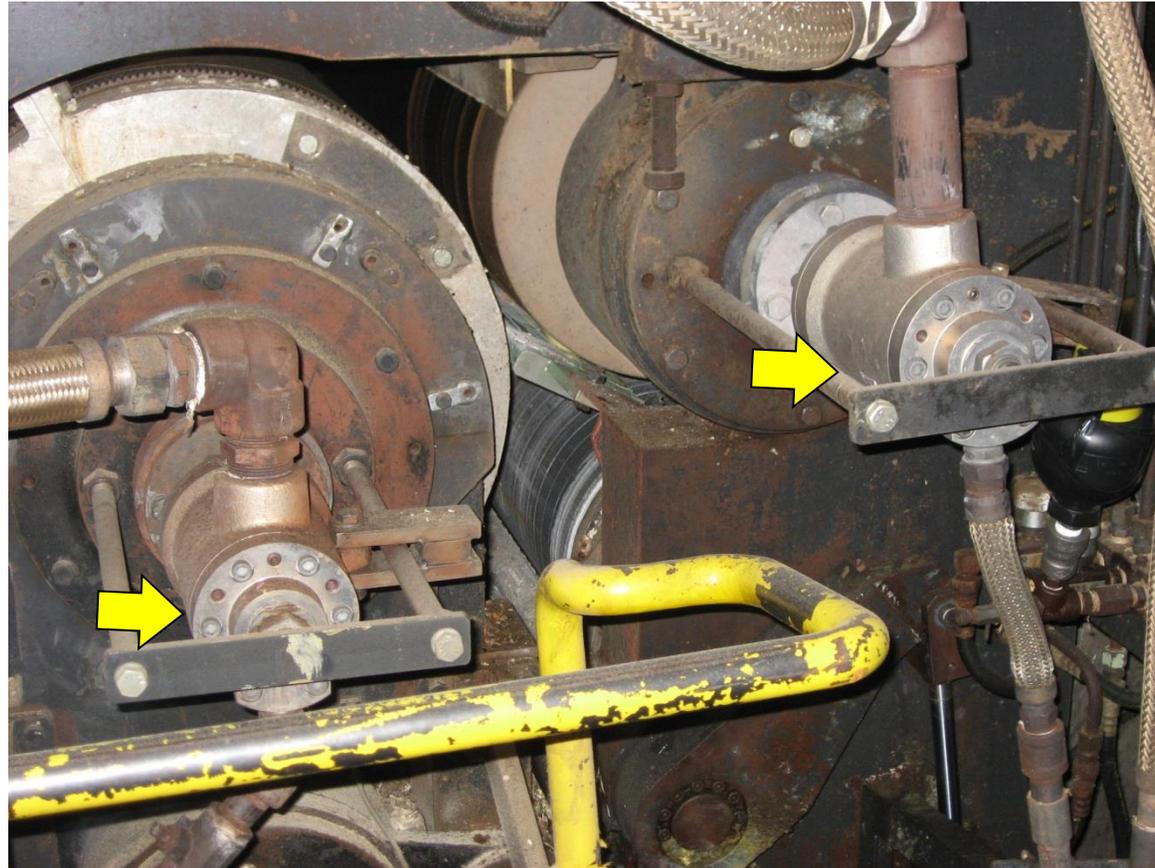
Deublin Série 6000



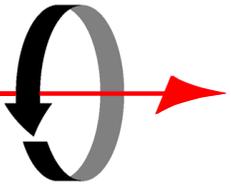
Indústrias de papel corrugado



Deublin Série HPS



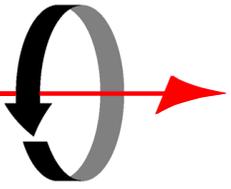
Indústrias de plástico



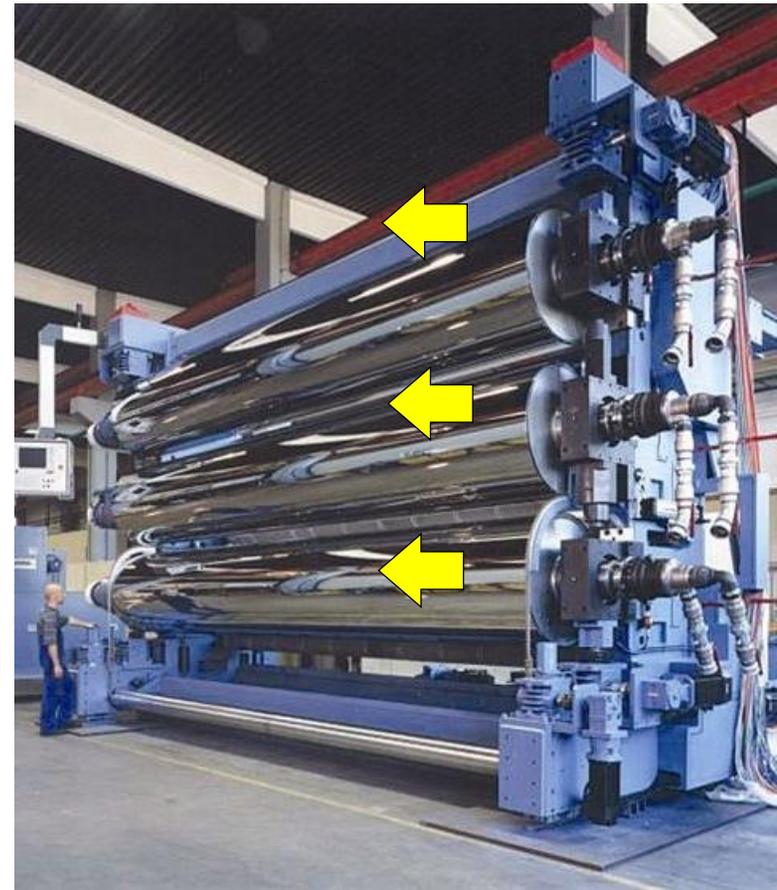
Deublin Série 55



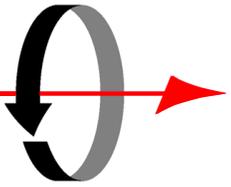
Indústrias de plástico



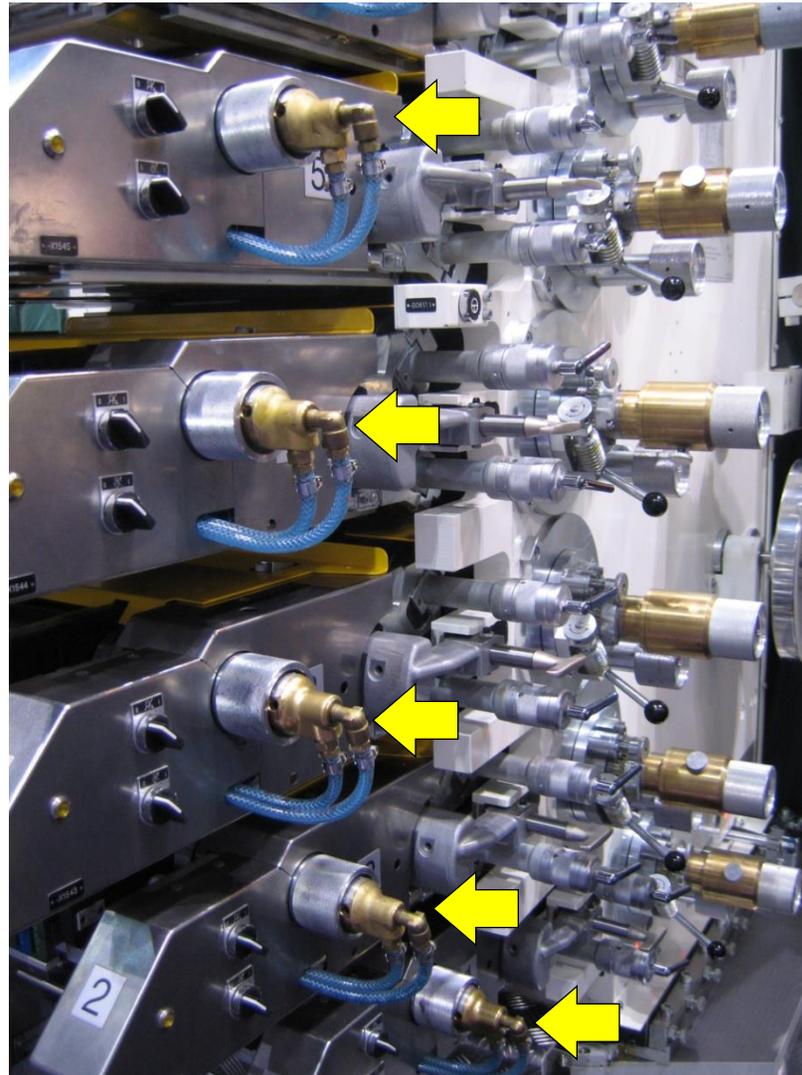
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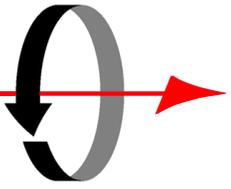
Indústrias de plástico



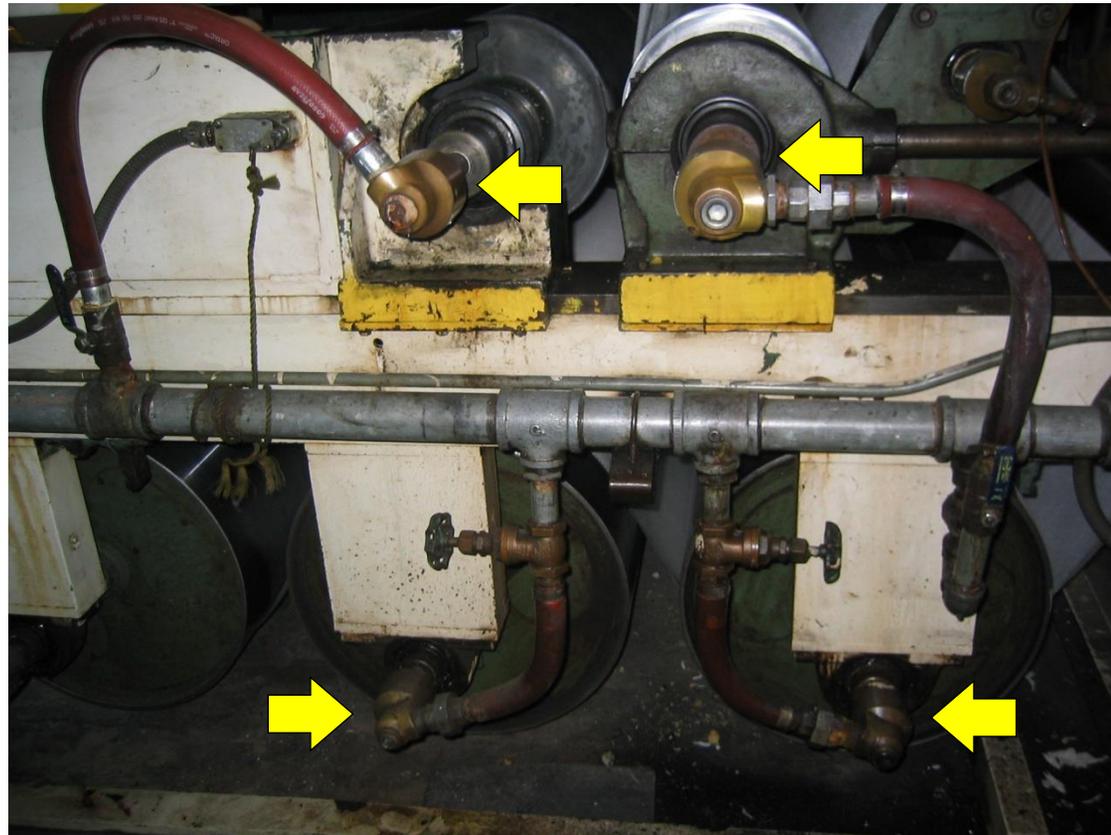
Deublin Série 55



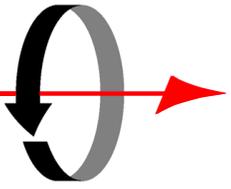
Indústrias de embalagem



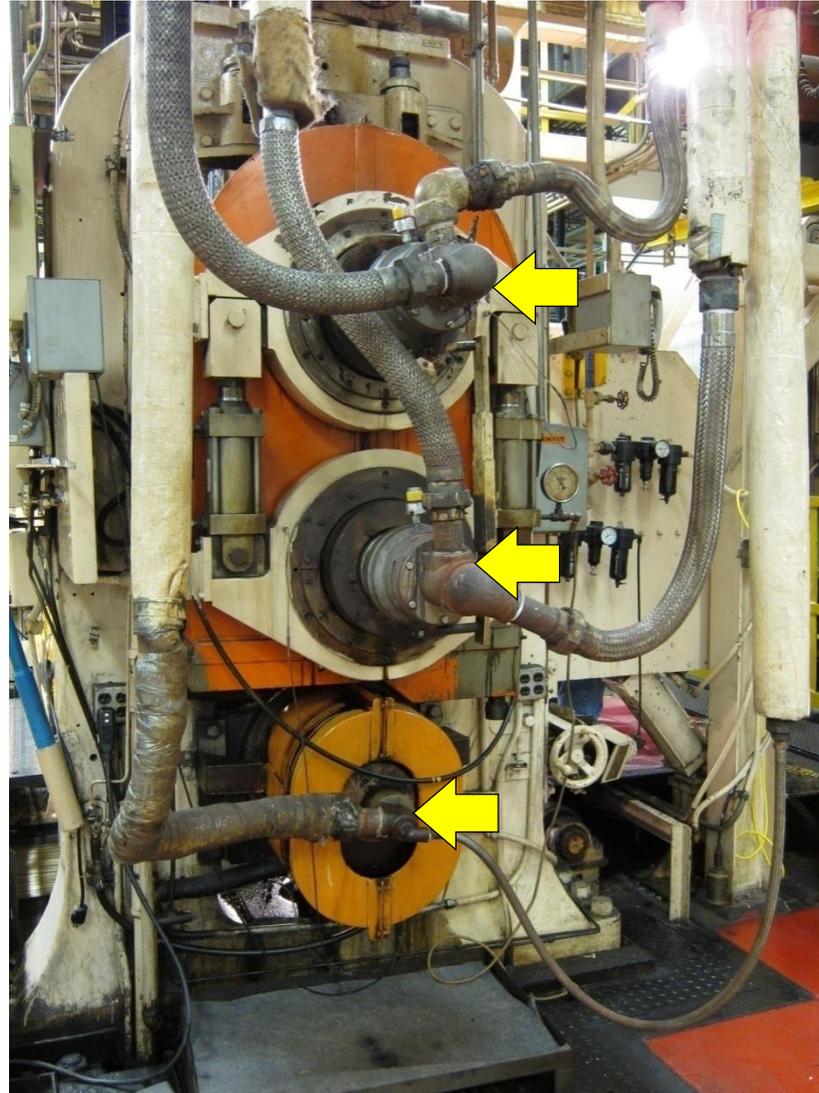
Deublin Série 55



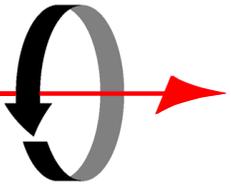
Indústrias de Pneus & Borracha



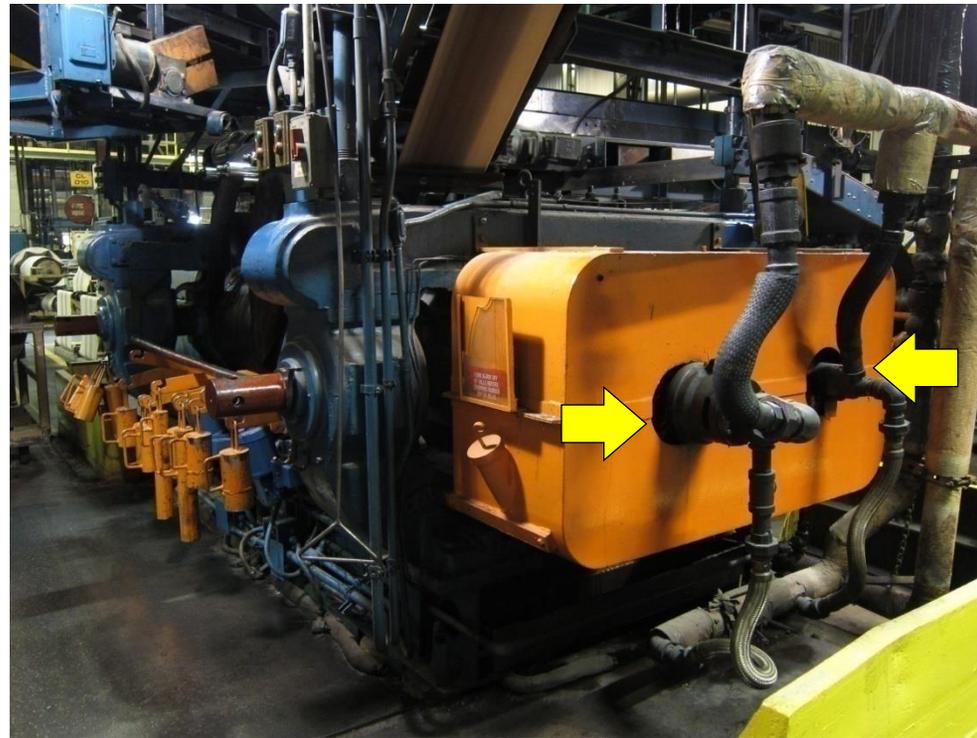
Deublin Séries 6000 & 55



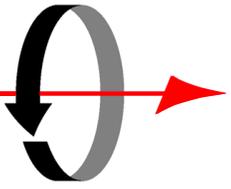
Indústrias de Pneus & Borracha



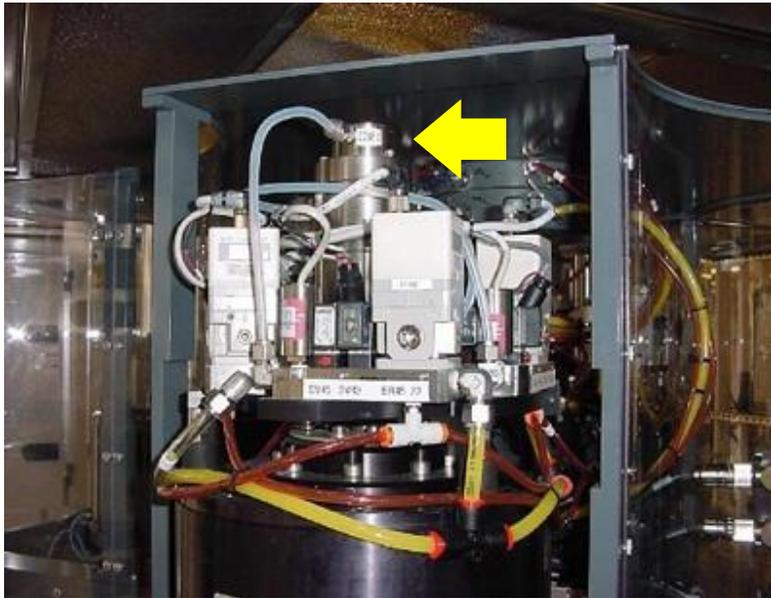
Deublin Séries 55 & 6000



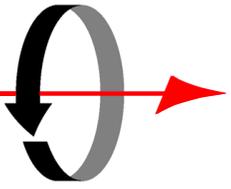
Indústria de semicondutores



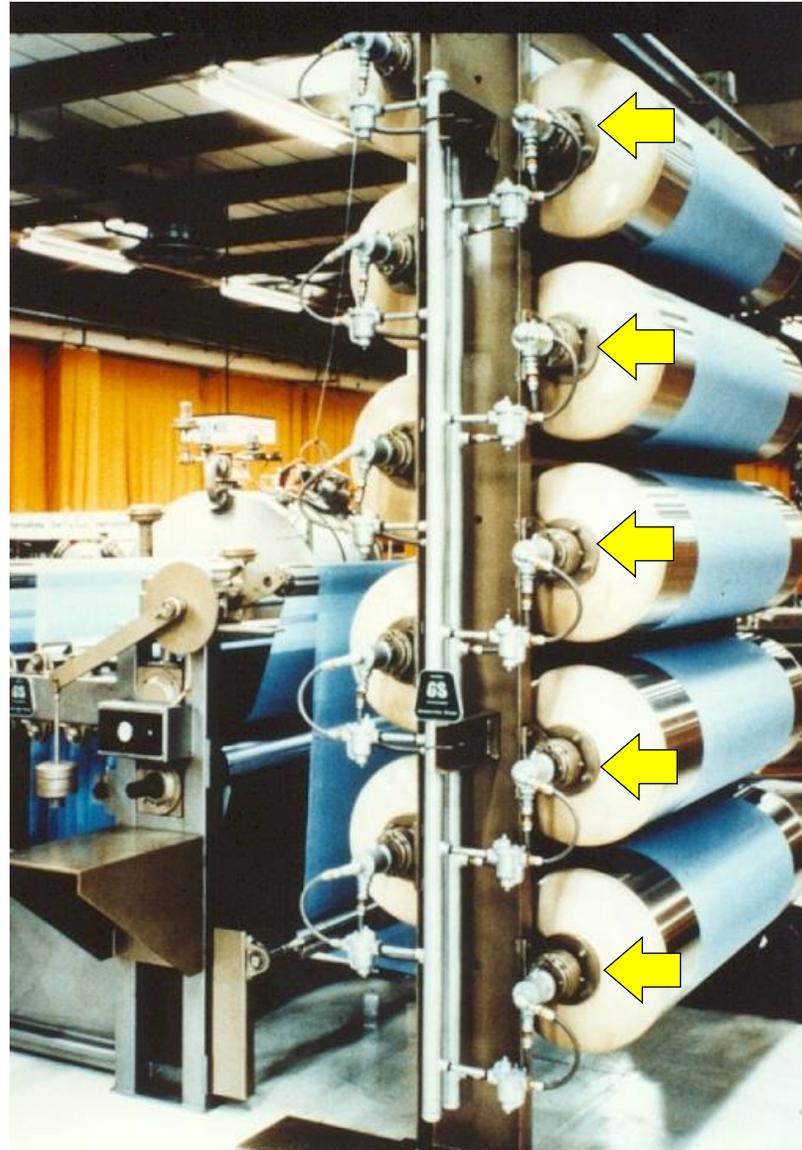
Deublin Série 2003



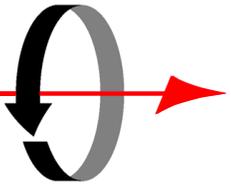
Indústrias têxteis



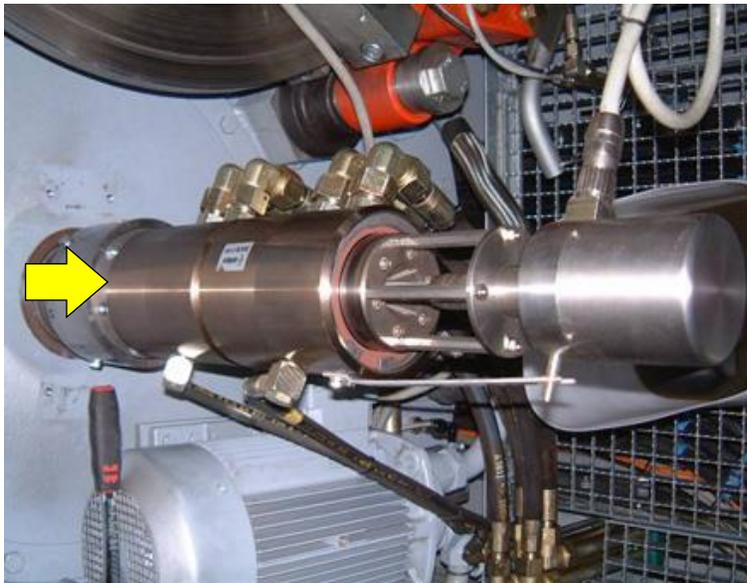
Barco (vapor e óleo térmico)



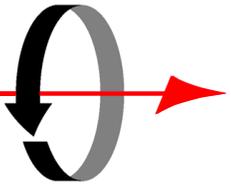
Turbinas eólicas



Deublin Série 7100



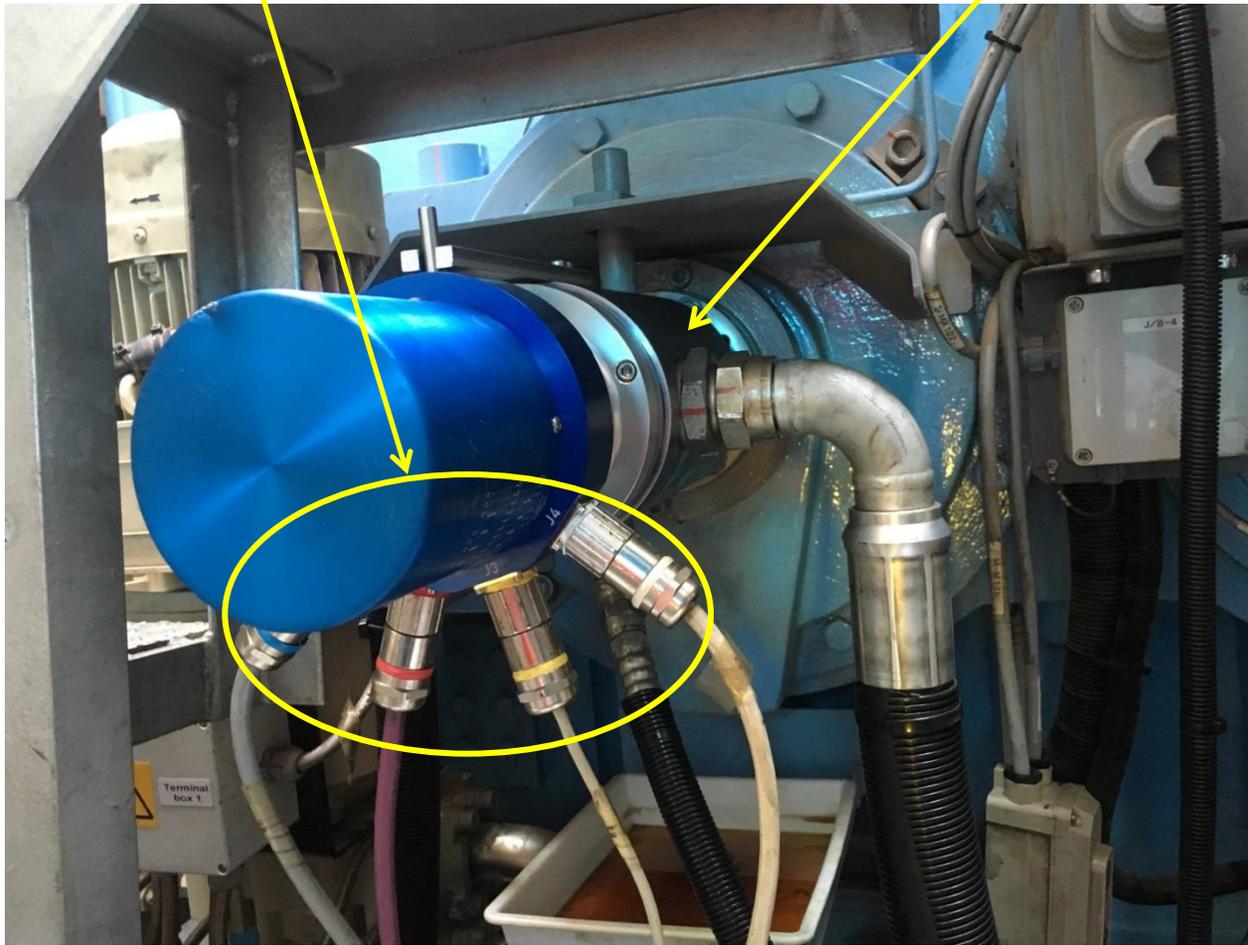
Turbinas eólicas - Slip Rings



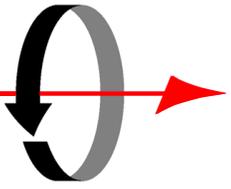
SR0154

União 7100-1138

4 Cabos para Potência, Comunicação & Segurança

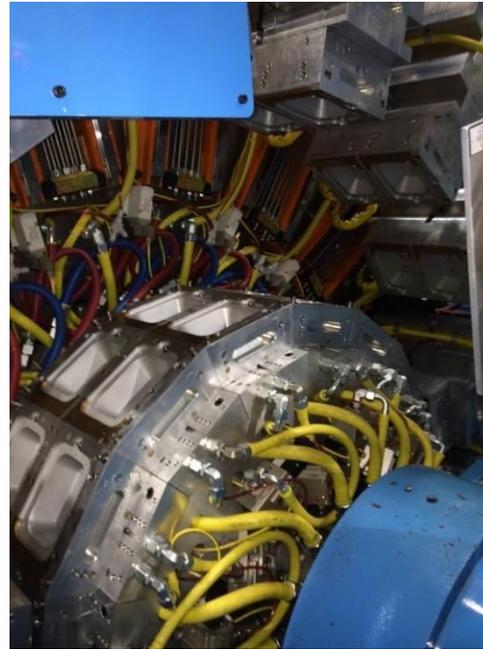
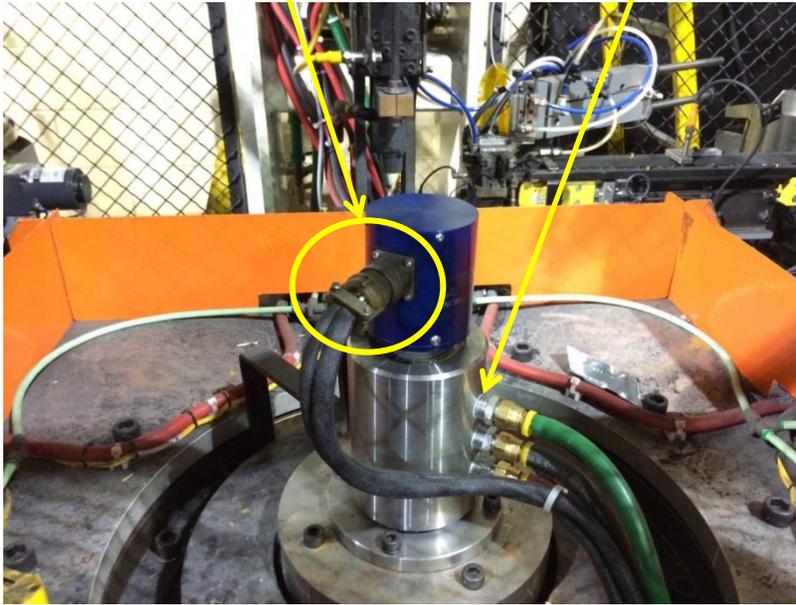


Slip Rings - Automotivo, Plásticos



SLM2A14M1SFU101

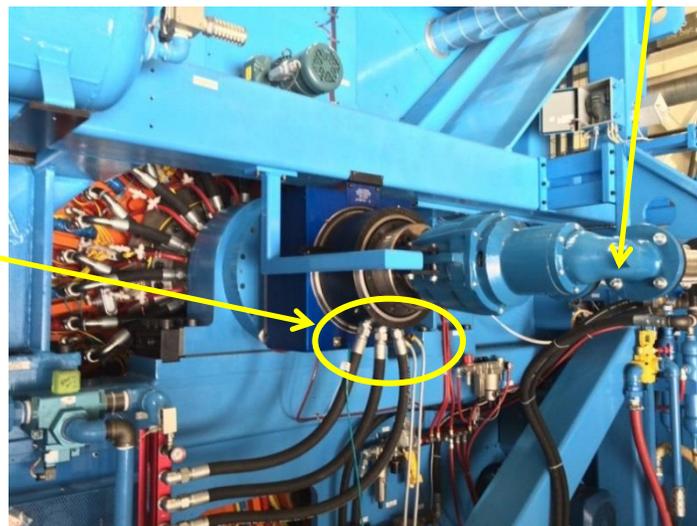
Dois cabos / Um conector União SP0432



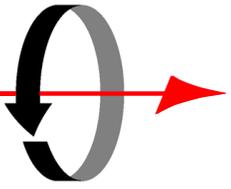
União F127



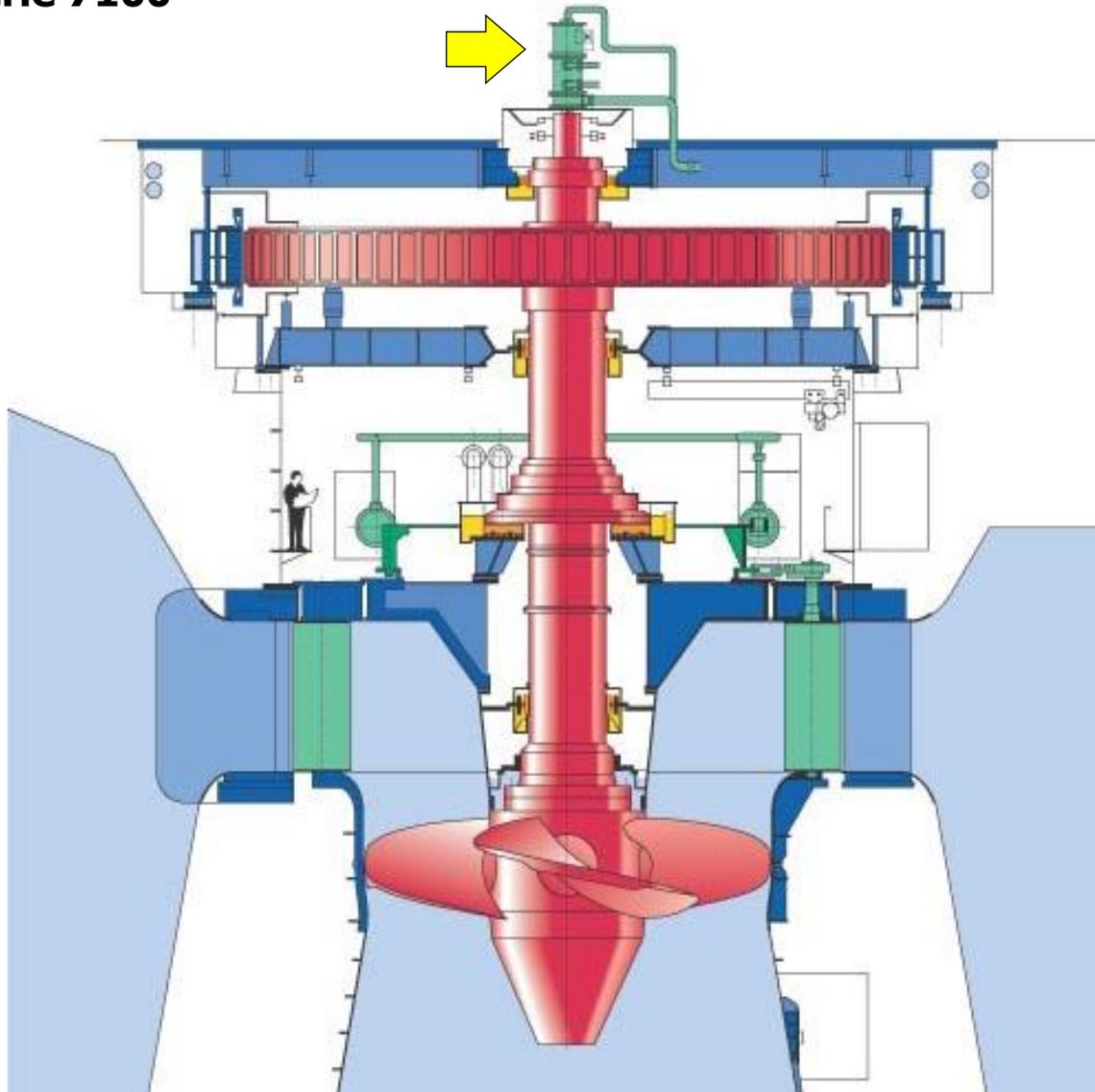
SR0138
Ethernet / Potência / Ar



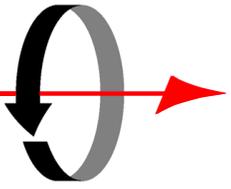
Turbinas hidro



Deublin Série 7100



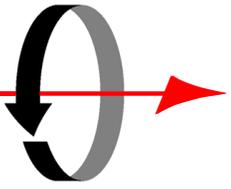
Perfuração



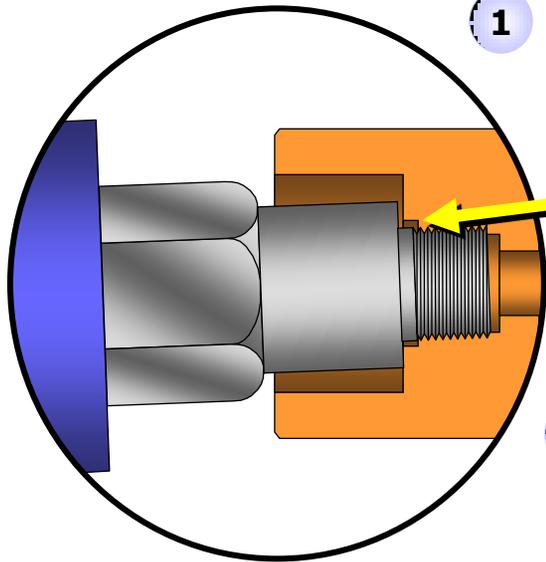
Indústrias "Oil & Gas" / Perfuração direcional



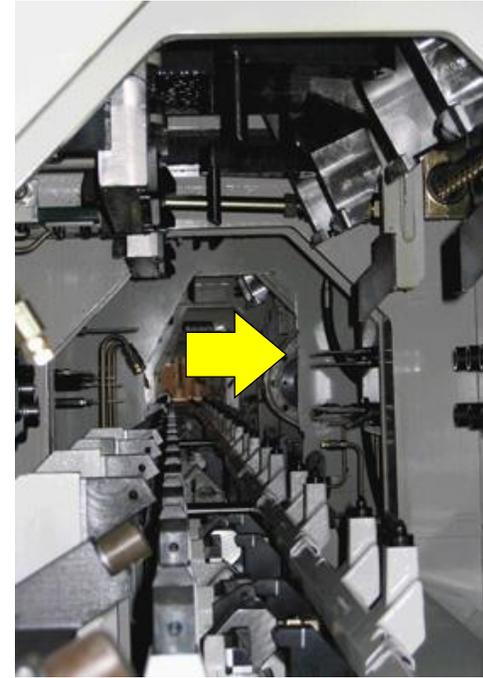
Problemas de instalação



Efeito de desalinhamento



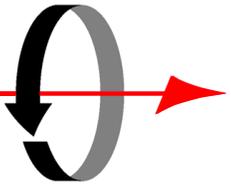
- 1** Rosca malfeita em spindle recuperado, com ângulo em relação ao eixo de rotação.
- 2** A união foi instalada corretamente mas o desalinhamento da rosca não permite o assentamento correto.
- 3** Quando a máquina estiver em operação, toda a união orbita no eixo do spindle.



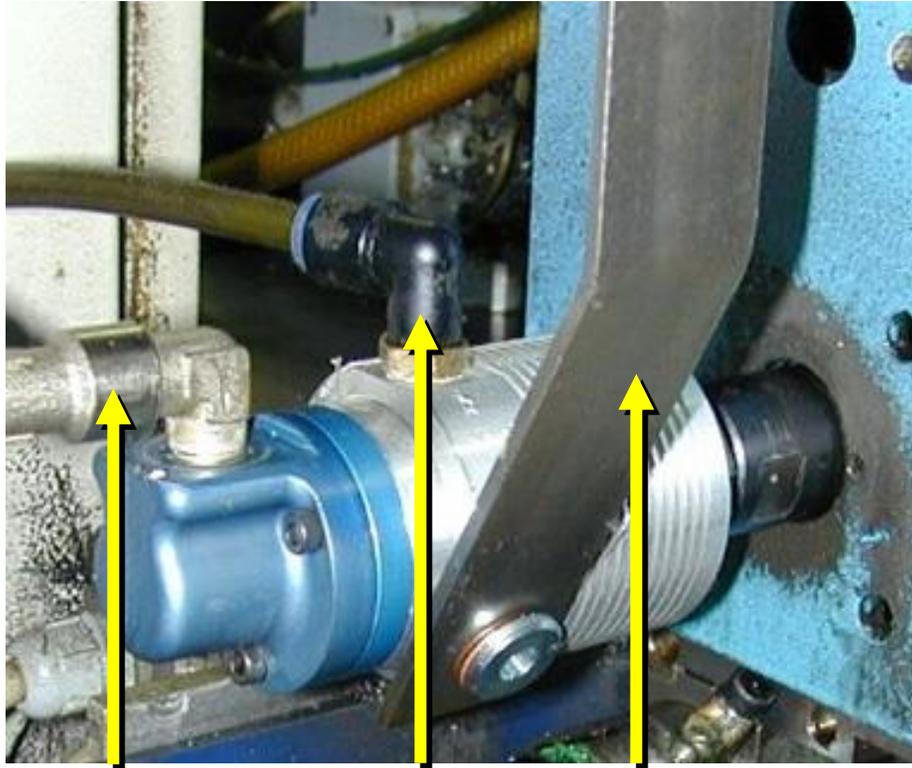
- 4** O movimento orbital causa roçamento entre a carcaça e a máquina / spindle.
- 5** Stress repetitivo causa a fratura na união do rotor, interrompendo o fluxo de refrigerante.
- 6** Sem o refrigerante, o suporte sobreaquece e funde na guia. A máquina continua trabalhando até que a ferramenta se quebra, empurrando o suporte contra a seção quebrada.
- 7** O suporte fundido deve ser cortado antes que a peça de trabalho possa ser removida.



Problemas de instalação



Instalação incorreta



Tubulação de entrada rígida cria carga lateral nos selos e rolamentos.

Dreno para cima

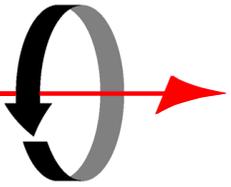
Cinta metálica presa no dreno, evita a flutuação, carregando excessivamente os rolamentos.

Filtragem

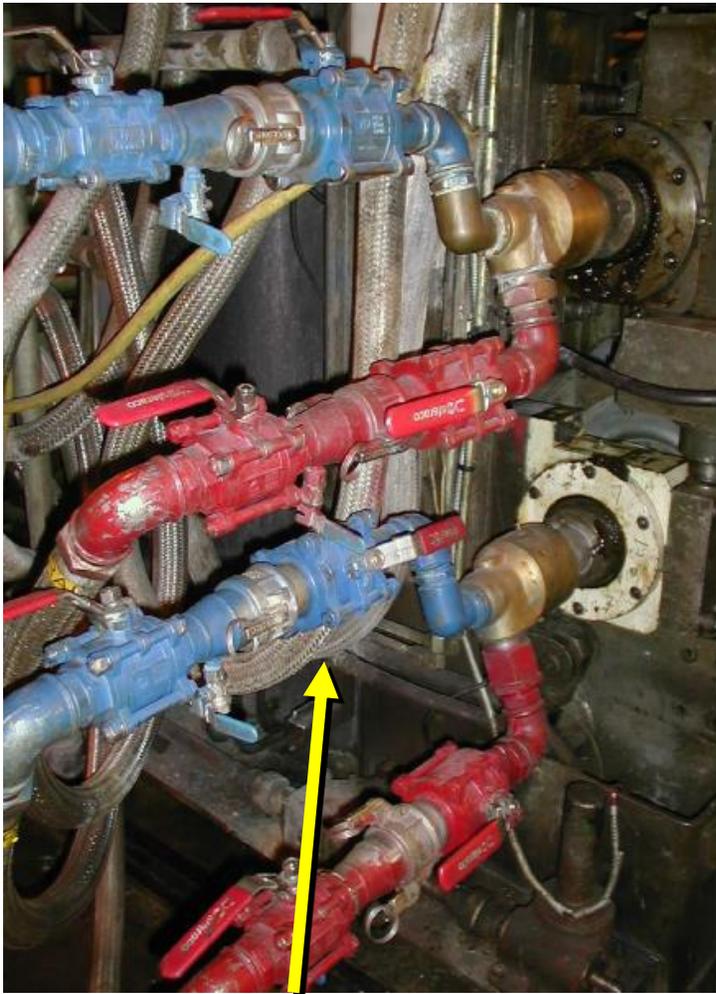


As faces do selo trabalham bem, mas o acúmulo de detritos evita que o sistema "pop-off" funcione corretamente.

Problemas de instalação

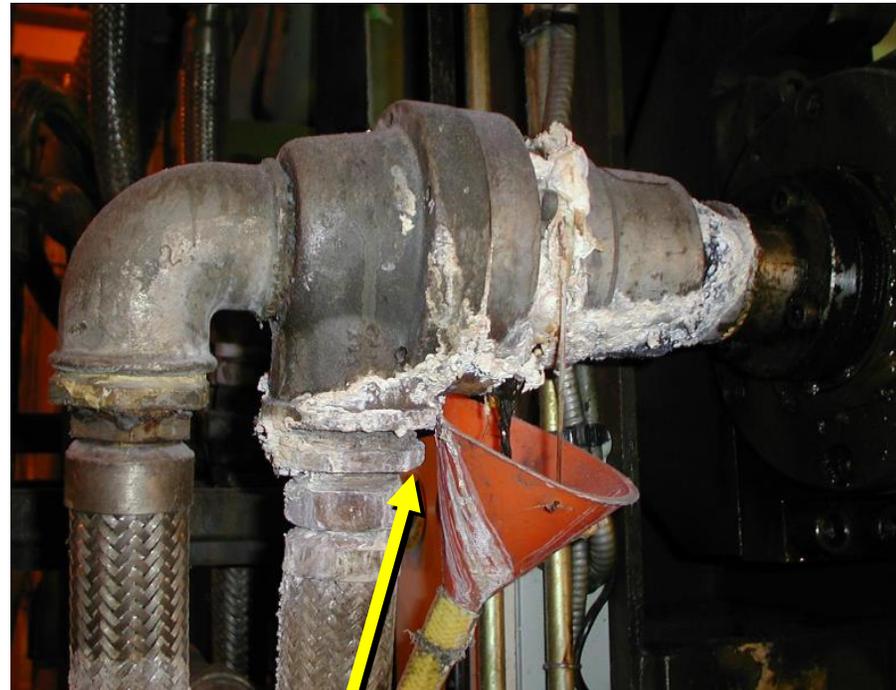


Conexão de mangueira imprópria

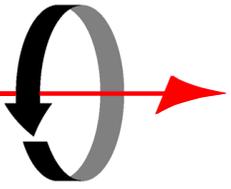


Válvulas pesadas suportadas pelos mancais das uniões; carga excessiva nos rolamentos.

Dreno permanente?



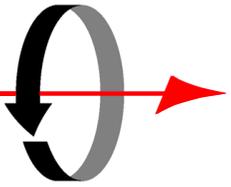
Selo vazando!!



Reparos Deublin

Você sabia que a maioria das uniões rotativas Deublin são reparáveis?

Reparos Deublin



REPAROS DE UNIÕES ROTATIVAS

As uniões rotativas DEUBLIN, além da qualidade, têm como diferencial a possibilidade de reparo para quase toda a linha. Assim, o produto DEUBLIN terá maior vida útil de operação com menor custo.

PROCESSO DE INSPEÇÃO E REPARO

As uniões a serem reparadas passam por rigoroso e detalhado processo de inspeção contemplando a desmontagem para análise individual de cada componente. Dentre os serviços, destacamos:

- Troca de rotor, rolamentos e vedações de acordo com o modelo.
- Garantia de reparo e montagem.
- Garantia estendida do produto.

Veja o resultado de alguns modelos que passaram por processo de reparação:

Séries para USO GERAL



Séries para PNEUMÁTICA E HIDRÁULICA



REPAROS DE UNIÕES ROTATIVAS

água • vapor • ar • hidráulicos
óleo térmico • vácuo • aplicações especiais



Séries para VAPOR E ÓLEO TÉRMICO



Séries para SIDERURGIA



EM SÍNTESE: maior operação com menor custo

O reparo de uniões feito pela DEUBLIN Brasil garante:

- A mesma qualidade e vida útil de um produto novo.
- Expressiva redução no investimento para aquisição de uma nova união (30% a 70%).



A DEUBLIN, empresa americana fundada em 1945, é a maior fabricante de uniões rotativas do mundo e possui a maior base instalada de sifões estacionários com unidades fabris na América, Ásia e Europa.

Desde 1995 está presente no Brasil oferecendo suporte técnico e comercial. Estabeleceu-se em novas instalações, em 2015, com estrutura completa e equipamentos de alta tecnologia para prestar serviços de reparos em uniões rotativas.



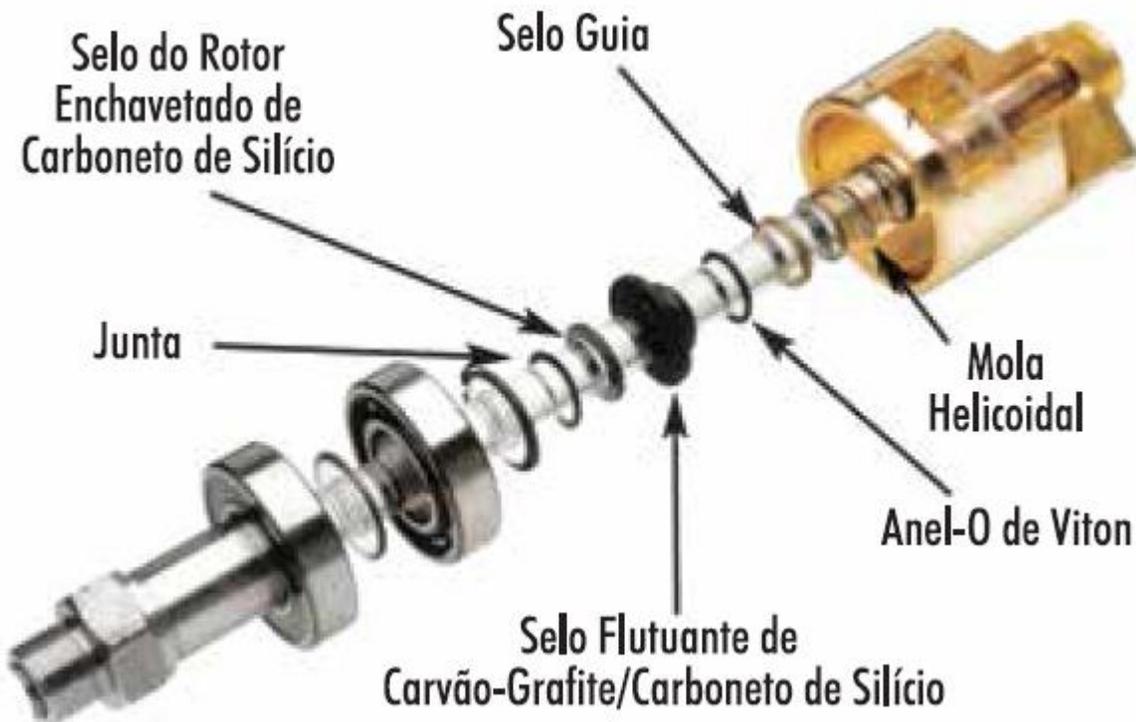
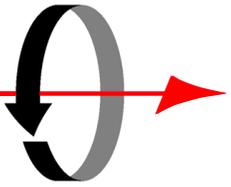
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Representantes autorizados no Brasil

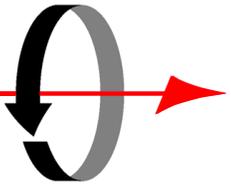
Reparos Deublin



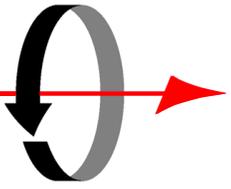
➤ Peças com a mesma qualidade e garantia de um produto novo.

➤ Redução no investimento:
(50% do valor de uma união nova).

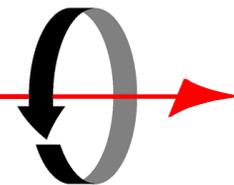
Reparos Deublin



Reparos Deublin



Consulte-nos!



Deublin Brasil

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Telefone +55 11 2455-3245*

www.deublinbrasil.com.br

*Solicite nossa ficha cadastral para envio das uniões
para reparo!*