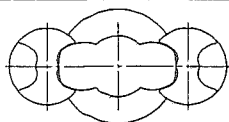


 AIR LIQUIDE 				
N° D'AFFAIRE JOB NUMBER	FMT FMT	GROUPE GROUP	N° NBR	REV REV
KOSICE 50-3023-01	A4	612	???	??

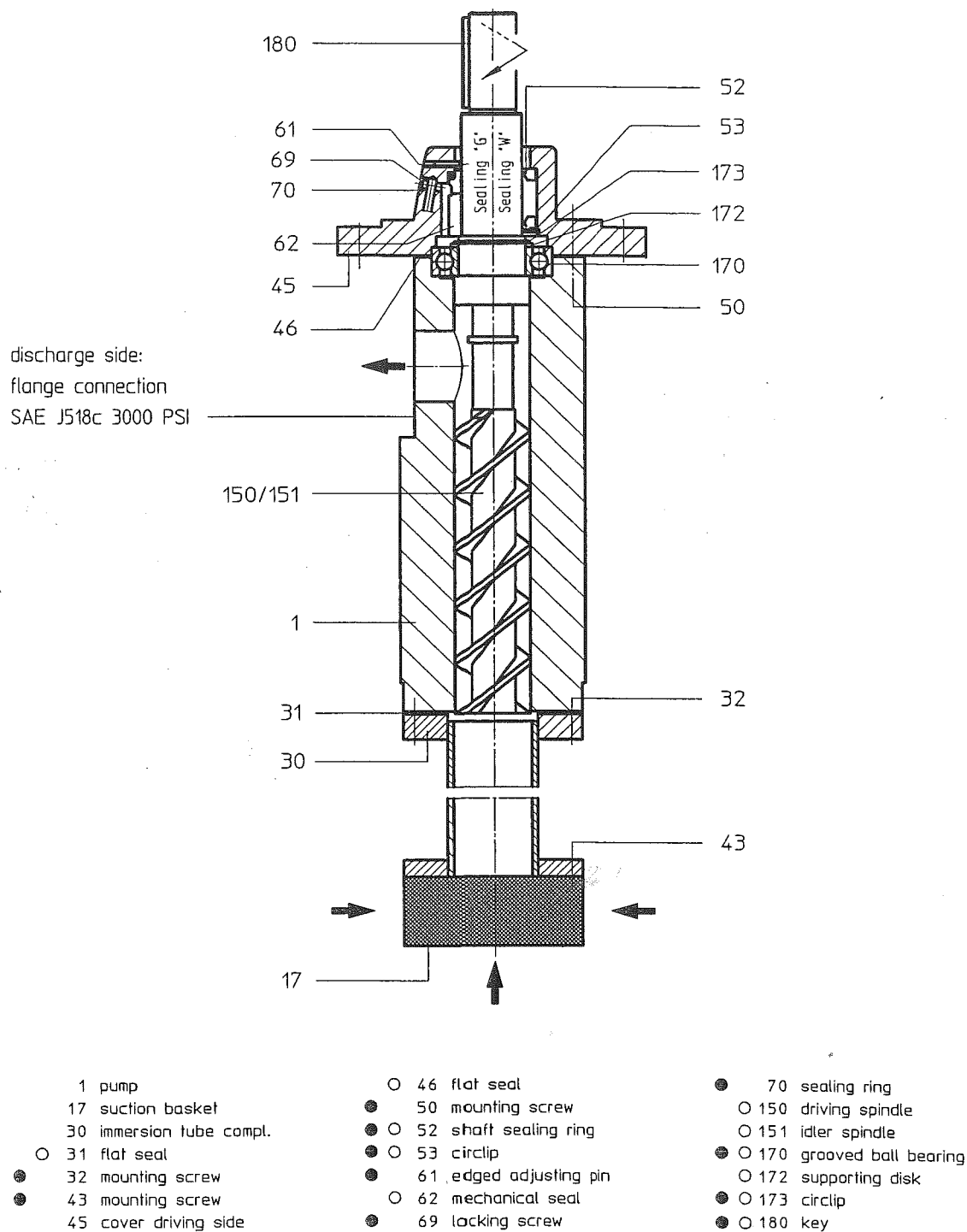
[illegible]

SCREW PUMPS



Leistritz

Range	Type	Size	Pitch	Shape	Type of Seal	Identification
L3M	F	25- 70	/...	IFOKT	W G	IMMERSION TUBE FLANGE MOUNTED PUMP WITH 3 SPINDLES BALL BEARING INSIDE



- | | | |
|--------------------------|---------------------------|------------------------------|
| 1 pump | ○ 46 flat seal | ● 70 sealing ring |
| 17 suction basket | ● 50 mounting screw | ○ 150 driving spindle |
| 30 immersion tube compl. | ● ○ 52 shaft sealing ring | ○ 151 idler spindle |
| ○ 31 flat seal | ● ○ 53 circlip | ● ○ 170 grooved ball bearing |
| ● 32 mounting screw | ● 61 edged adjusting pin | ○ 172 supporting disk |
| ● 43 mounting screw | ○ 62 mechanical seal | ● ○ 173 circlip |
| 45 cover driving side | ● 69 locking screw | ● ○ 180 key |

● DIN - parts
○ spare parts

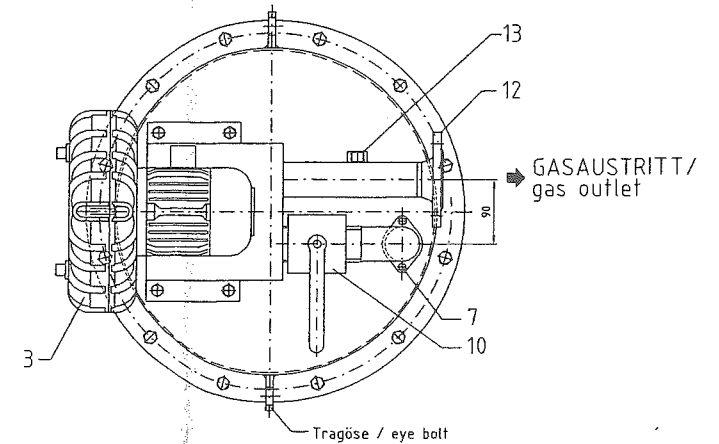
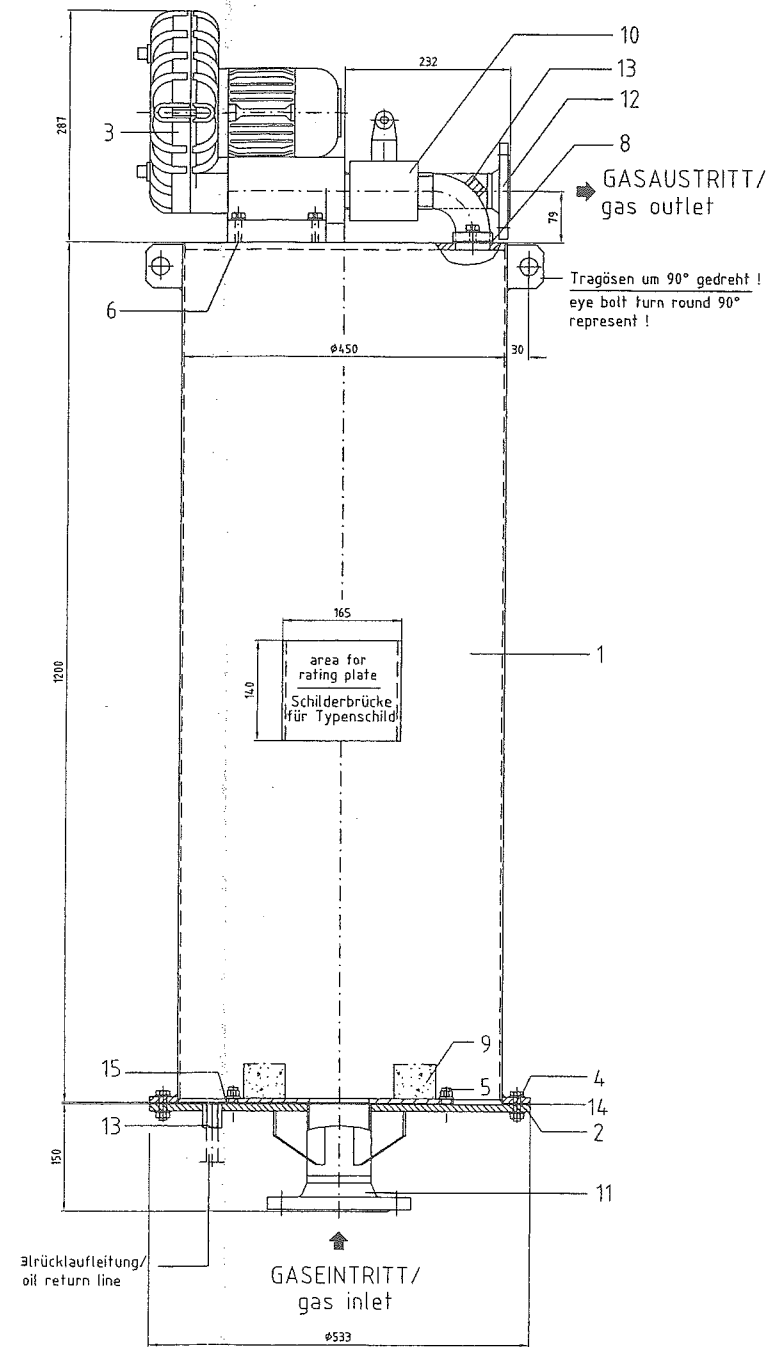
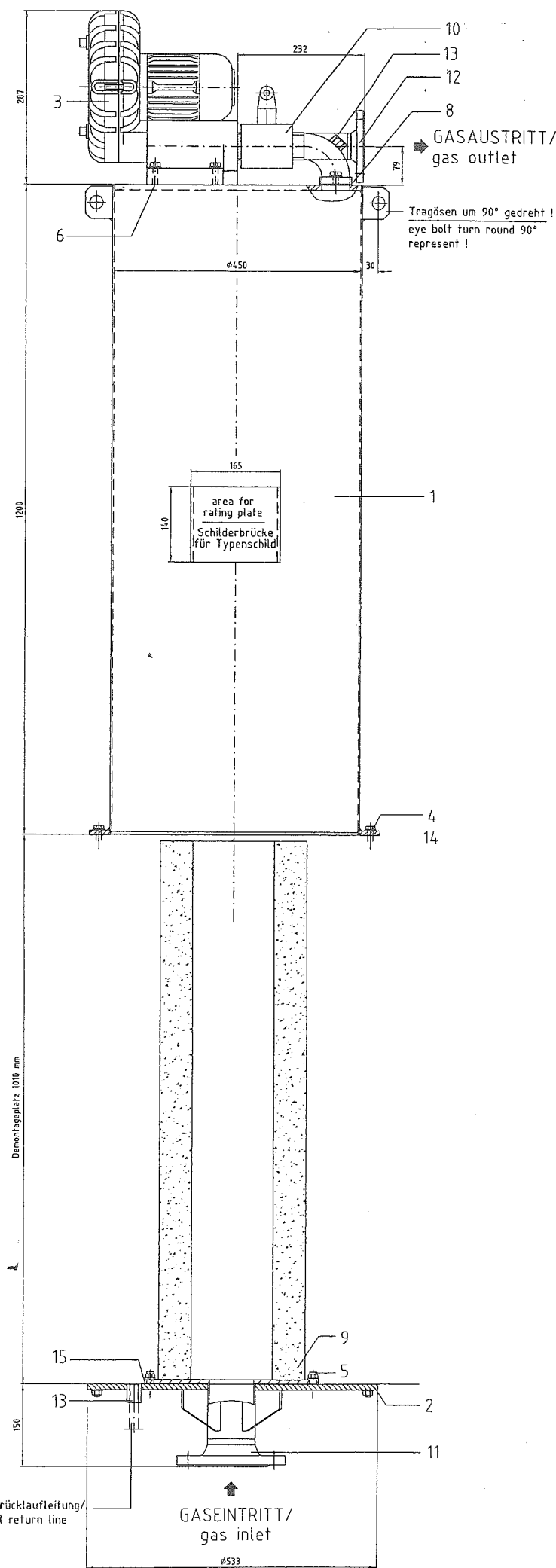
Edition: May 88

Subject to modification.

3 PAGE 5

Leistritz AG Markgrafenstr.29-39 Postfach 3041 D-8500 Nürnberg Tel.0911/43060 Telex 626717 Fax 4306 200

E 1606257



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Behälter feuerverzinkt nach DIN 50976 - vessel fire tinned to DIN 50976
Rohrleitung galvanisch verzinkt nach DIN 50961 - pipe electrogalvanize to DIN 50961
Vakuumpumpe Anstrich RAL 9006 - vacuum pump coat of paint RAL 9006

Pos.	Qty.	Material	Item	Dimensions	DIN Ref.
15	1	oil-resistant	flat sealing - separator element	Ø320 mm	
14	1	oil-resistant	flat sealing - vessel	Ø450 mm	
13	3	St verz.	sleeve	1/2"	DIN 2986
12	1	St 37.2	gas outlet	DN 40	DIN 2633
11	1	St 37.2	gas inlet	DN 80	DIN 2633
10	1	St	ball valve with hand lever	1 1/4"	
9	1	St / GF	separator element Ø270	l= 600 mm	
8	1	oil-resistant	flat sealing - flange		
7	4	8.8 verz.	stud, washer, nut	M10x30	DIN 125/934
6	4	8.8 verz.	hexagon head bolt, washer	M8x25	DIN 933/125
5	6	8.8 verz.	stud, washer, nut	M10x25	DIN 125/934
4	16	8.8 verz.	hexagon head bolt, washer, nut	M10x35	DIN 933/125/934
3	1	Al	vacuum pump ELMO-G; 0,7 kW, 50 Hz, IP 55, 230 / 400 V		
2	1	St 37.2	baseplate	Ø533 mm	
1	1	St 37.2	hood (one piece)	Ø456 x 800	

Pos.	Qty.	Material	Item	Dimensions	DIN Ref.
15	1	ölbeständig	Flachdichtung - Abscheideelement	Ø320 mm	
14	1	ölbeständig	Flachdichtung - Behälter	Ø450 mm	
13	3	St verz.	Muffe	1/2"	DIN 2986
12	1	St 37.2	Gasaustritt	DN 40	DIN 2633
11	1	St 37.2	Gaseintritt	DN 80	DIN 2633
10	1	St	Kugelhahn mit Handhebel	1 1/4"	
9	1	St / GF	Abscheideelement Ø270	l= 600 mm	
8	1	ölbeständig	Flachdichtung - Flansch		
7	2	8.8 verz.	Gewindestift, Mutter, U-Scheibe	M10x30	DIN 125/934
6	4	8.8 verz.	Sechskantschraube, Scheibe	M8x25	DIN 933/125
5	6	8.8 verz.	Gewindestift, Scheibe, Mutter	M10x25	DIN 125/934
4	12	8.8 verz.	Sechskantschraube, Scheibe, Mutter	M10x35	DIN 933/125/934
3	1	Al	Vakuumpumpe ELMO-G; 0,7 kW, 50 Hz, IP 55, 230 / 400V		
2	1	St 37.2	Grundplatte	Ø533 mm	
1	1	St 37.2	Haube (1-teilig)	Ø456 x 800	

POS.	Stck.	Werkst.	Benennung	Abmessung	DIN Norm
15	1	ölbeständig	Flachdichtung - Abscheideelement	Ø320 mm	
14	1	ölbeständig	Flachdichtung - Behälter	Ø450 mm	
13	3	St verz.	Muffe	1/2"	DIN 2986
12	1	St 37.2	Gasaustritt	DN 40	DIN 2633
11	1	St 37.2	Gaseintritt	DN 80	DIN 2633
10	1	St	Kugelhahn mit Handhebel	1 1/4"	
9	1	St / GF	Abscheideelement Ø270	l= 600 mm	
8	1	ölbeständig	Flachdichtung - Flansch		
7	2	8.8 verz.	Gewindestift, Mutter, U-Scheibe	M10x30	DIN 125/934
6	4	8.8 verz.	Sechskantschraube, Scheibe	M8x25	DIN 933/125
5	6	8.8 verz.	Gewindestift, Scheibe, Mutter	M10x25	DIN 125/934
4	12	8.8 verz.	Sechskantschraube, Scheibe, Mutter	M10x35	DIN 933/125/934
3	1	Al	Vakuumpumpe ELMO-G; 0,7 kW, 50 Hz, IP 55, 230 / 400V		
2	1	St 37.2	Grundplatte	Ø533 mm	
1	1	St 37.2	Haube (1-teilig)	Ø456 x 800	

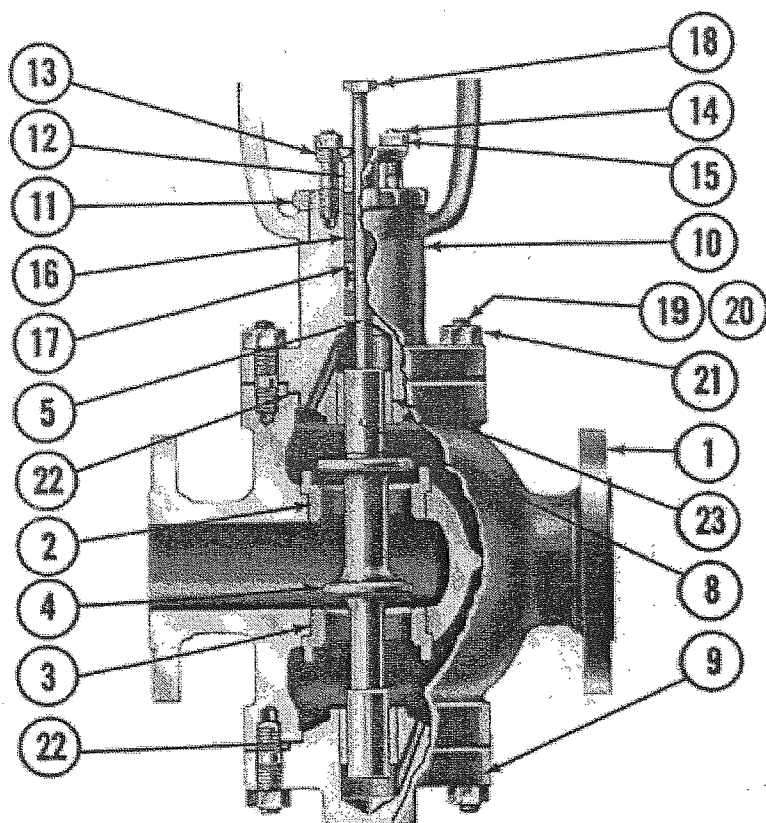
DMS GmbH
Rehornweg 15
26180 Rastede

Tel.: +49 (4402) 91 90 10
Fax.: +49 (4402) 91 90 18
ONA@DMS-Anlagenbau.de

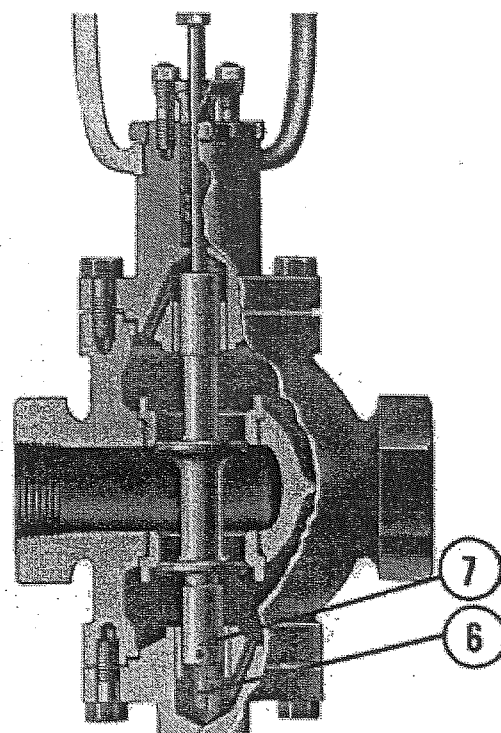
Benennung	Abmessung	DIN Norm
Ölnebelabscheider		
oil mist separator		
Typ: GW 22 008 T / 45-1001		

Benennung	Abmessung	DIN Norm
Ölnebelabscheider		
oil mist separator		
Typ: GW 22 008 T / 45-1001		

Benennung	Abmessung	DIN Norm
Ölnebelabscheider		
oil mist separator		
Typ: GW 22 008 T / 45-1001		



Model 525 Reducing Regulator
Model 525-50 Differential Pressure Reducing Regulator

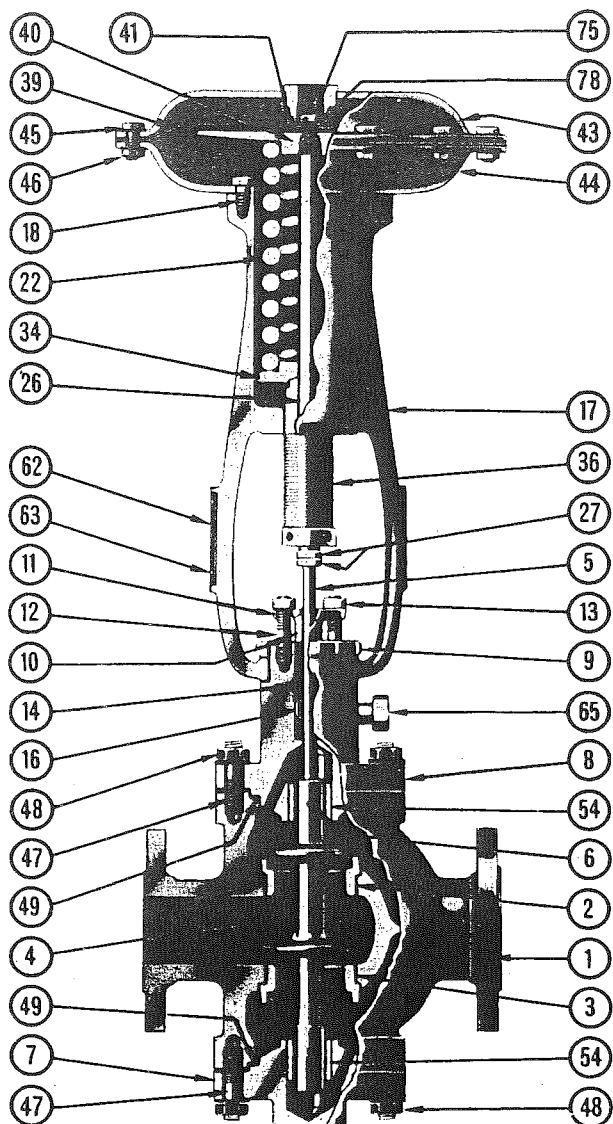


Model 526 Back Pressure Regulator
Model 526-50 Differential Back Pressure Regulator

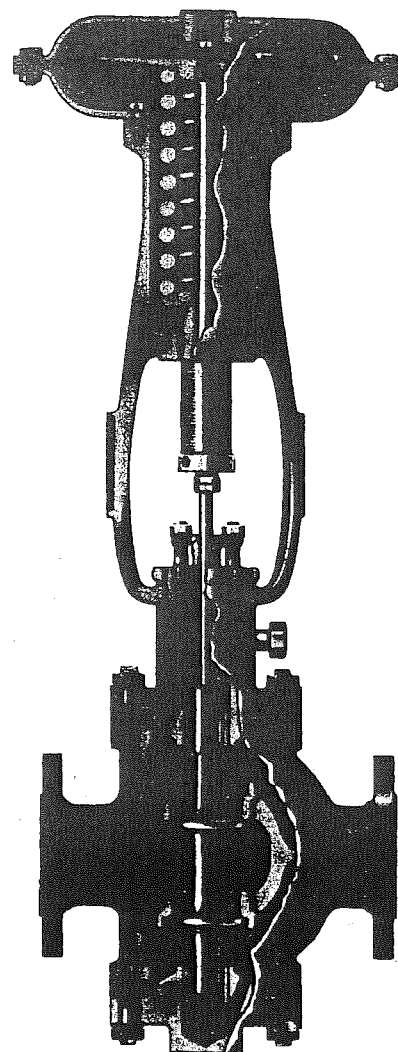
Materials

Ref. No.	Temperature Range		-20°F	450°F	800°F
	Description		Materials		
1	Body		Cast Iron ASTM A126 CL 8		
			Carbon Steel ASTM A216 Gr WCB		
			316 Stainless Steel		
2	Large Bore	Seat Rings	316 Stainless Steel		
			316 Stainless Steel Hardfaced		
3	Small Bore	Seat Rings	316 Stainless Steel		
			316 Stainless Steel Hardfaced		
4	Plug		316 Stainless Steel		
			316 Stainless Steel Hardfaced		
5	Plug Stem		316 Stainless Steel		
6	Plug Stop				
7	Plug Stop Pin				
8	Plug Pin				
9	Blindhead		Carbon Steel		
10	Bonnet				
11	Drive Nut				
12	Packing Follower		303 Stainless Steel		
13	Packing Flange		Carbon Steel		
14	Packing Flange Studs		304 Stainless Steel		
15	Packing Flange Stud Nuts				
16	Packing		Crane 285K PTFE w/Aramid Core		
			Flexible Graphite		
			Chesterton 324 (100% Teflon)		
17	Lantern Ring		303 Stainless Steel		
18	Stem Locknuts		Carbon Steel		
19	Body Studs		Chrome Molybdenum Alloy Steel (Steel Bodies)		
20	Body Cap Screws		Carbon Steel (Iron Bodies)		
21	Body Stud Nuts		Carbon Steel (Steel Bodies)		
22	Body Gasket		304 Stainless Steel w/Graphite Filler Sprit Wound		
23	Guide Bushing		Type 440C Stainless Steel		

Note: The plug stop (Ref. 6) and plug stop pin (Ref. 7) are installed in the bottom of the plug on Model 526 back pressure regulators with the 10900 Series Actuators No. 3 1/2 case (80-250 psi range) and No. 4 case (60-125 psi range) to prevent overtravel.



No. 525 — Double Ported
(No. 535 is single ported type)



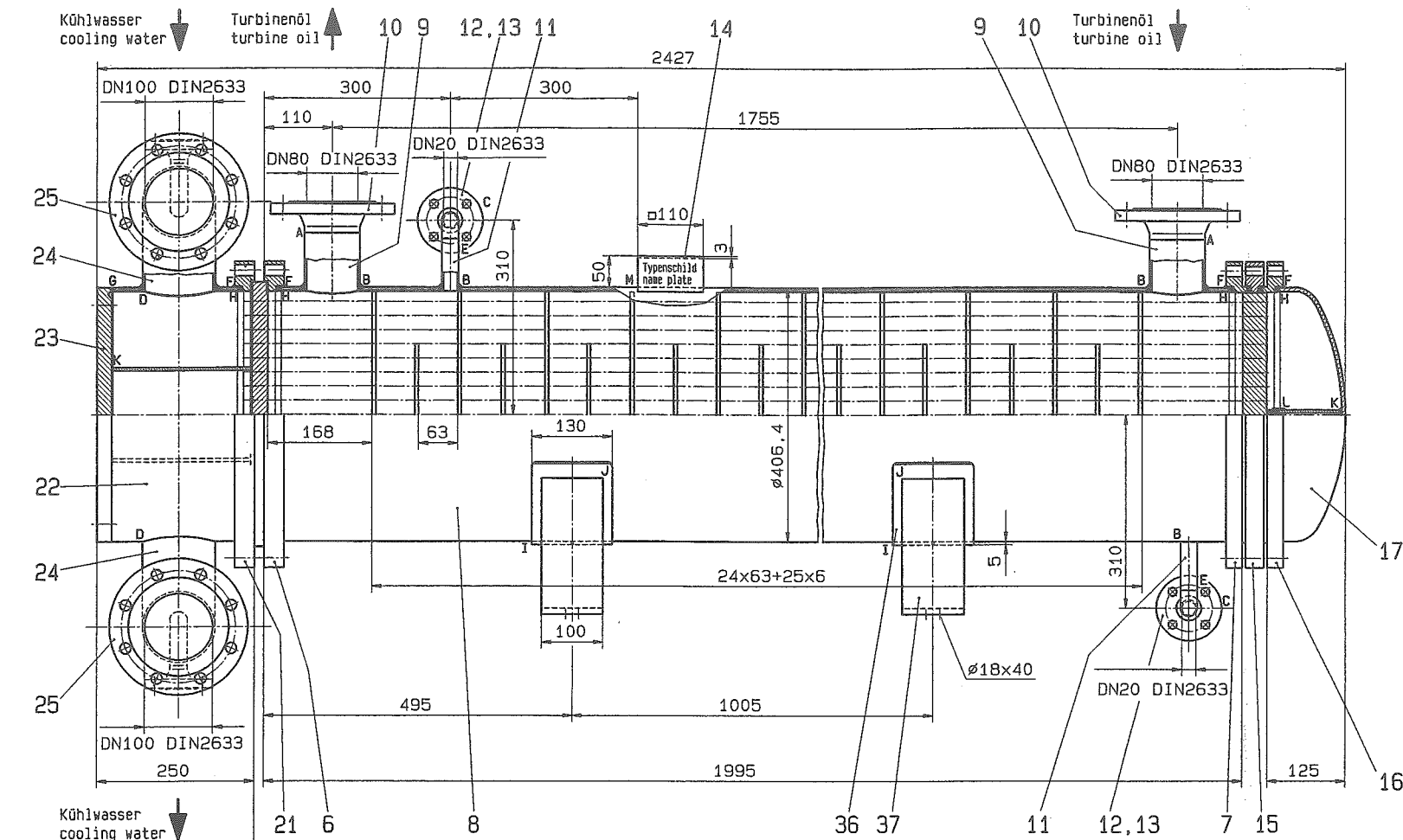
No. 526 — Double Ported
(No. 536 is single ported type)

PARTS REFERENCE

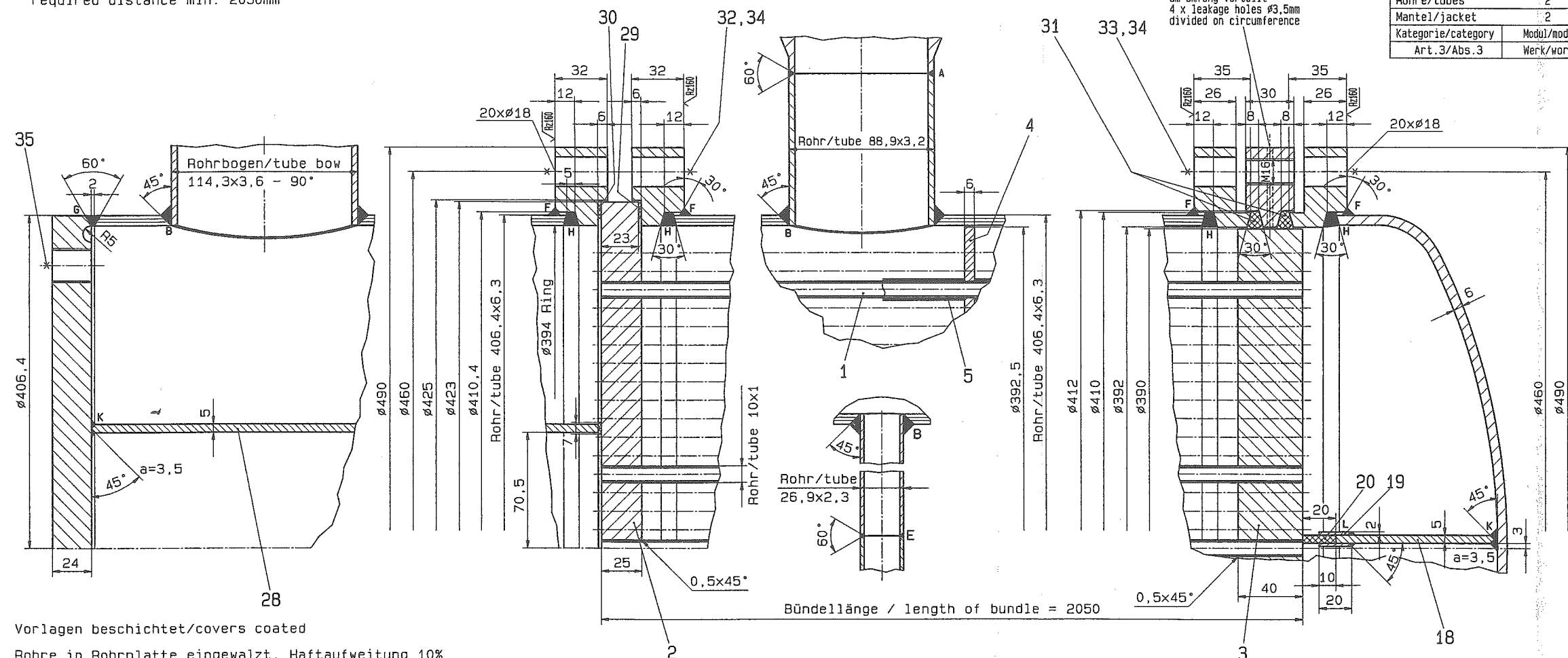
No.	Part Name	No.	Part Name	No.	Part Name
1	Body.	• 14	Packing.	44	Diaphragm Case (lower).
• 2	Seat Ring.	16	Lubricant Ring.	45	Cap Screw (diaph-case).
• 3	Small Bore Seat Ring	17	Yoke.	46	Nut (diaph-case).
• 4	Valve Plug.	18	Cap Screw.	47	Body Stud.
• 5	Valve Plug Stem.	22	Actuator Spring.	48	Nut (body stud).
• 6	Plug-Pin.	26	Actuator Stem.	• 49	Body Gasket.
7	Bottom Flange.	27	Stem Locknut.	54	Guide Bushing (incl. w/ref. 7 & 8).
8	Bonnet.	34	Spring Seat.	62	Serial Plate.
9	Clamping Nut.	36	Spring Adjustor.	63	Screw (serial plate).
10	Packing Gland.	• 39	Diaphragm.	65	Pipe Plug.
11	Packing Flange.	40	Diaphragm Plate.	75	Cap Screw.
12	Packing Flange Stud.	41	Diaphragm Washer.	78	Dynaseal Washer.
13	Packing Flange Nut.	43	Diaphragm Case (upper).		

• Recommended spare part.

NOTE: When ordering replacement parts and in all correspondence give information contained on serial plate (62) attached to regulator.

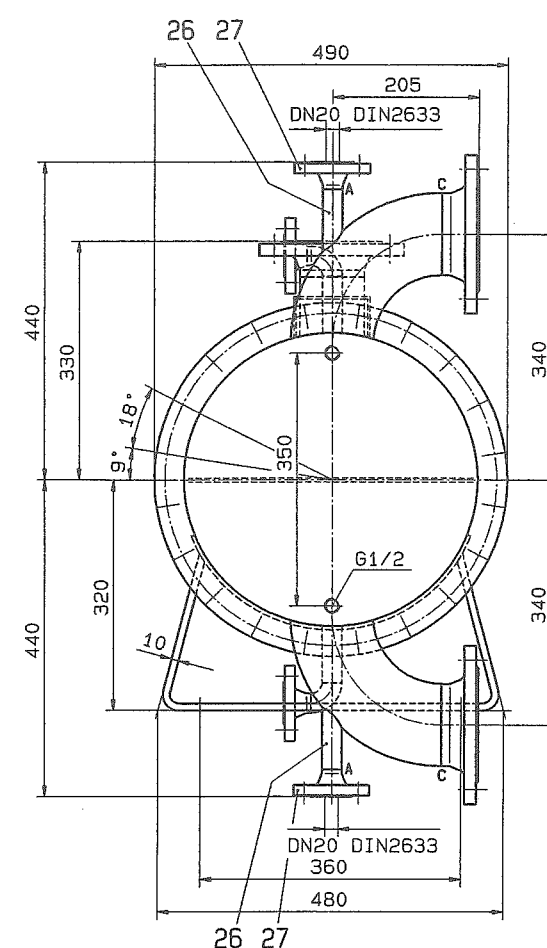


Tube bundle removal side
required distance min. 2050mm



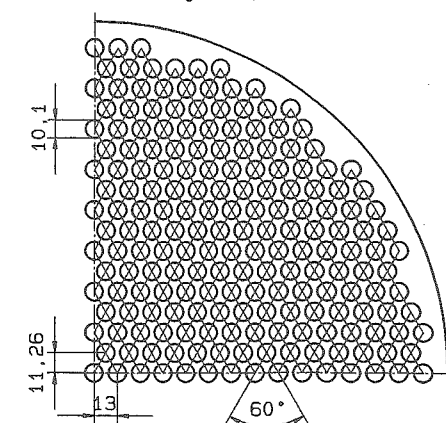
Vorlagen beschichtet/covers coated

Rohre in Rohrplatte eingewalzt, Haftaufweitung 10%
tubes rolled-in tube plate, flare-out 10%



Bohrbild / boring image

733 Bohrungen Ø10,1
733 borings Ø10,1



Entlüftungsbohrungen vorsehen für Einschweißungen
der Ringe, sowie Konsolenverstärkungsbleche
air release borings for weldings of rings and
brackets-reinforce plates

Schweissfaktor/weld efficiency:		0,85
Elektrode/electrode:	OK-Tigrod 12.64 ER 70 S-6 EN 1668 1.5130	GSN 8 E 5122 R6 DIN 1913
Hersteller/producer:	ESAB	GSN
Schweissart/weld kind:	WIG	E

Herstellung und Prüfung gemäss den AD-2000-Mbl. der Reihe "HP"
manufacturing/testing according to AD-2000-Note Sheets of line "HP"

Anzuschliessende Rohrleitungen müssen der Stützweitentabelle, bzw. dem
Flexibilitätsnomogramm der AD-2000-Merkblätter der Reihe "HP100R" genügen
connectable pipe lines must be sufficient to the table of support widths,
respectively flexibility-nomogram of AD-2000-Note-Sheets of line "HP100R"

Richtlinie 97/23/EG PED 97/23/EC	
Fluidgruppe/group of fluids	
Rohr/tubes	2
Mantel/jacket	2
Kategorie/category	Modul/module
Art.3/Abs.3	Werk/works

Probeüberdruck/test pressure	Rohr/tubes	Mantel/jacket
14,3 bar	11,5 bar	

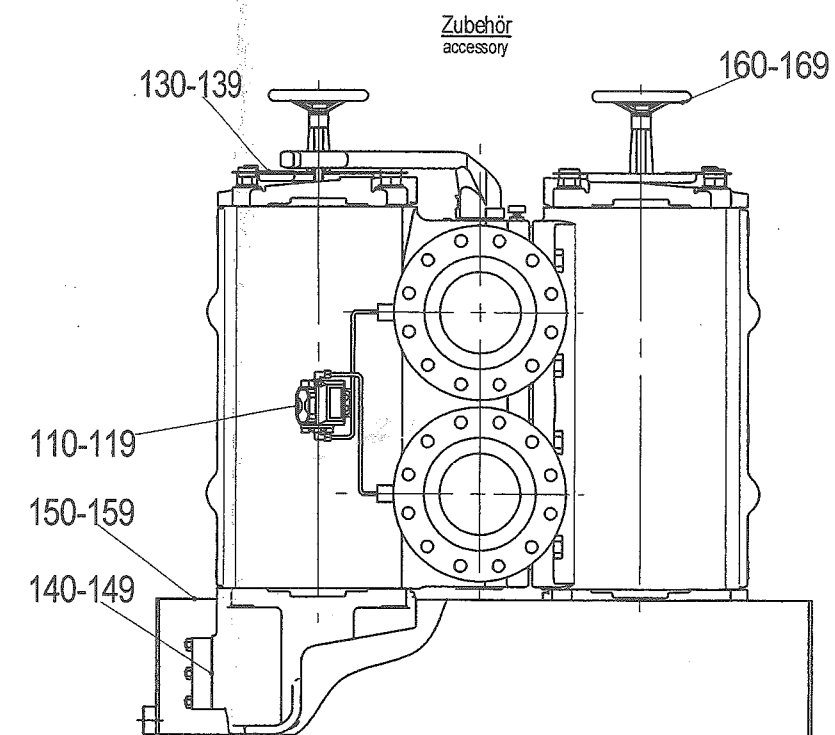
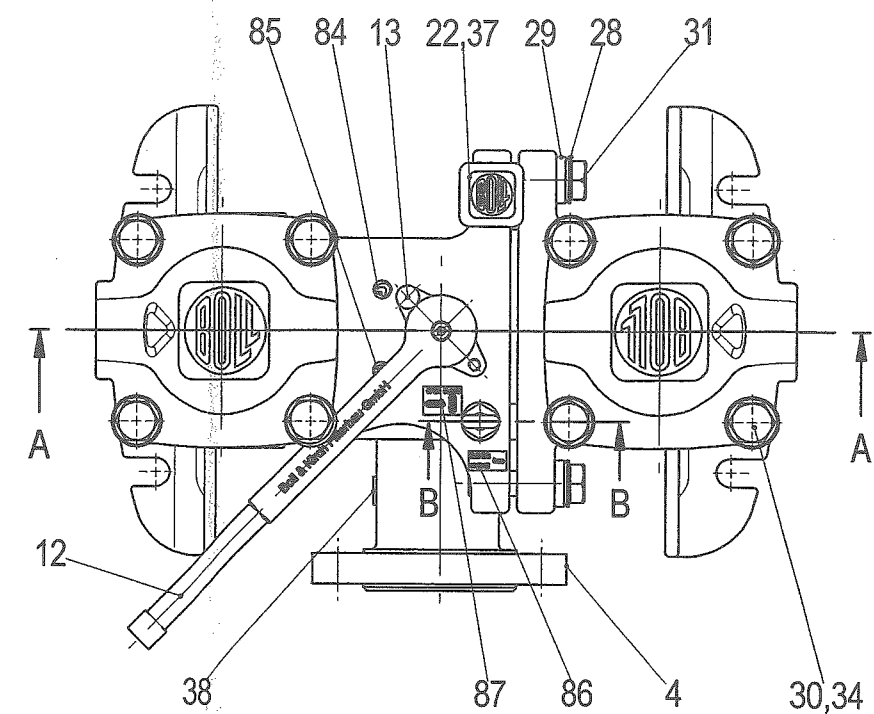
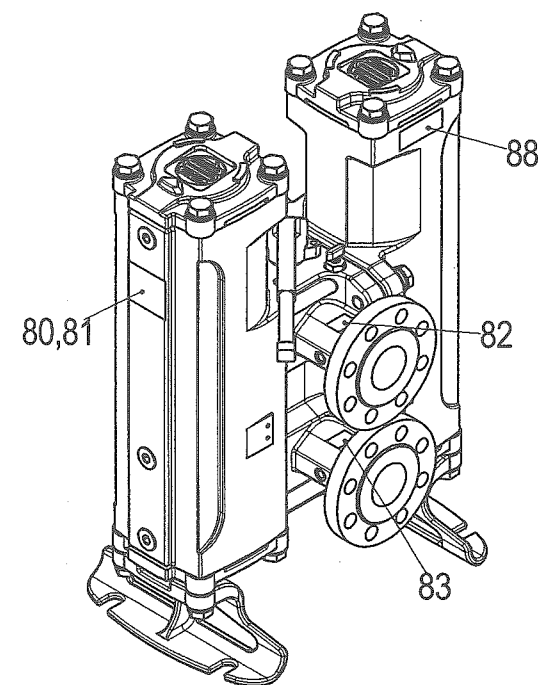
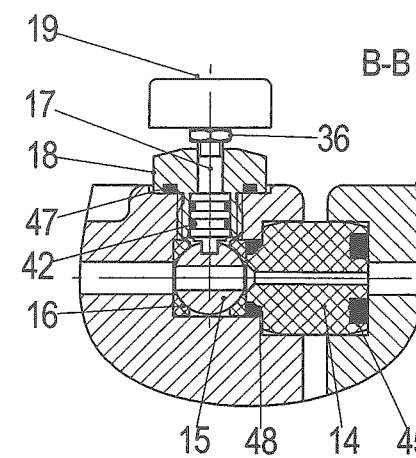
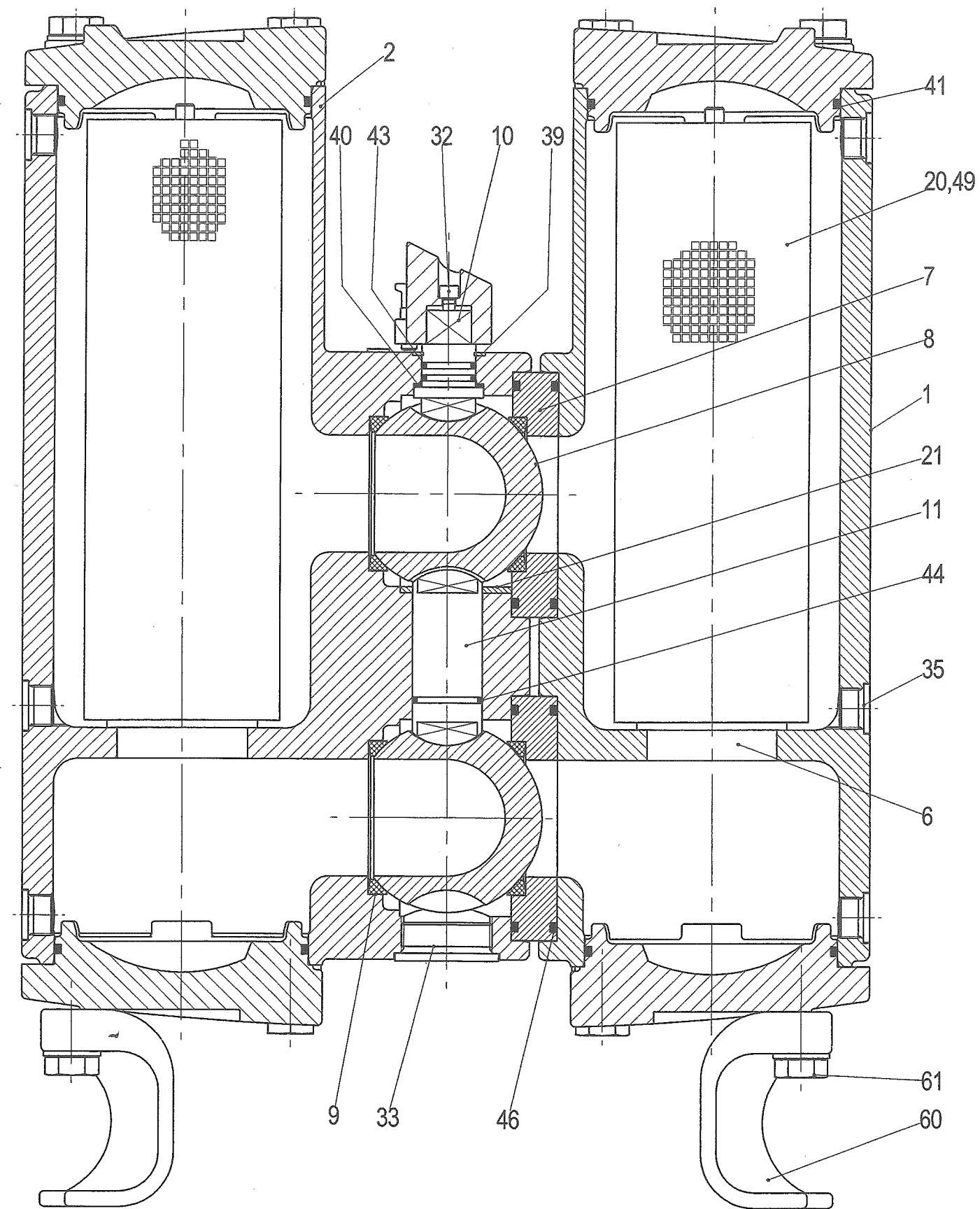
Schweissfugenformen entsprechend den Normen: DIN 2559,
DIN 8551, DIN 8533, EN 29692, DIN EN 1708-1
types of weld joints according to: DIN 2559, DIN 8551,
DIN 8533, EN 29692, DIN EN 1708-1
Alle einseitig zugänglichen Schweissnähte Wurzel-WIG,
alle Kehlnähte innen und aussen umlaufend geschweisst
all weld seams, one-sided accessible, root run-WIG
all fillet seams circulation-welded inside and outside

Prüfgrundlage der Werkstoffe für druckbelastete
Bauteile sind die AD-2000-Merkblätter der Reihe "W"
test foundation of materials for pressure loaded
parts are the AD-2000-Note Sheets of line "W"

E.PRANG & CO.
APPARATEBAU
Am Böttcherberg 20-28
51427 Berg.Gladbach

W16842	
Type WT-42-41-4	Year built 2005
Serial No. 42279	Rot. výroby
max. allowed working pressure max. prípustný pracovný tlak	10 bar
max. allowed working temperature max. prípustná pracovná teplota	80 °C
Volume Kapacita	114 L
Empty weight Hmotnosť - prázdna	690 Kg
Operating weight Hmotnosť - plná	~913 Kg

Format	Mst.	Geprüft	13.01.05	Bellin
A1	1, 1, 1, 2	Gezeichnet	13.01.05	Herbold
Änderungen		733 10.1	4-fl.	
Zust.	Beschreibung	Name	Datum	
		Ölkühler		42 m'
		Oil cooler		
C	Press., Temp.	Herbold	8.02.05	Z.Nr. 5301C
B	Pos.15, Text	Herbold	31.01.05	
A	Text completion	Herbold	19.01.05	E.PRANG & CO / BENSBERG



BFD	Grösse / size	Werkstoff / materia	
		8.8	A4-70
25	M12	80	56
40, 50	M16	190	135
65, 80, 100	M20	390	280
125, 150	M24	670	455

Alle Nachgebenden in MILLIMETER DIMENSIONS ARE ALL IN MILLIMETERS		Anforderungen nur über CAD (digital) SPECIFICATION ONLY WITH CAD		Schutzkennzeichen zur Beschränkung der Nutzung von Unterlagen DIN31-1 - D PROTECTION MARK FOR RESTRICTING THE USE OF DOCUMENTS 1 - 1 - D	
Projektdokumentation PROJECTION METHOD ISO Methods E		Werkstückkennzeichnung WORKPIECE IDENTIFICATION CORNUMBERS PER DIN 6791 		Oberflächen SURFACE TREATMENT Anodenox. und SURFACE T. 2 Sinterpulver SINTER POWDER 12 nach DIN 51301-1 DIN 51301-1	
		Allgemeine Normen GENERAL STANDARDS DIN ISO 2768-m Schweißzustand WELDED CONDITION EN ISO 13320-2 EN ISO 13320-2		Gewicht WEIGHT Material MATERIAL	
Alternative Konstruktion ALTERNATIVE CONSTRUCTION		Name NAME 19.12.2007 Grnewald		Serienzeichnung SERIAL DRAWING	
a Andrer 6065 28.06.03 GRU		b Grnewald 19.12.2007		Doppelfilter / duplex filter	
c freigegeben 08.05.03 bsp		d Cartarus		Typ BFD	
e freigegeben 11.04.03 bsp		f freigegeben 28.02.03 bsp		Zählraum-Nr. COUNTING NO.	
g freigegeben 28.02.03 bsp		h Korrektur 14.02.03 GRU		Z100871	
i freigegeben 28.02.03 bsp		j freigegeben 28.02.03 bsp		BOB FILM PROFESSIONAL SYSTEMS	
k Andrer 6147 17.10.03 bsp		l freigegeben 17.10.03 bsp		BOB & KIRCH Filterbau GmbH Stemensstraße 10-14, 50170 Kerpen	
m Andrer / REVISION		n freigegeben 17.10.03 bsp		Ursprung ORIGINAL	
o freigegeben 17.10.03 bsp		p freigegeben 17.10.03 bsp		Blatt SHEET	
q freigegeben 17.10.03 bsp		r freigegeben 17.10.03 bsp		Blatt SHEET	