

Conduit Gate Valve ASR

General information

Accessories for RMA valves

Easy-to-operate gears are described or illustrated in this brochure.

Actuators are, of course, also available as well as other accessories. For specific information concerning installation and positioning, please contact us.

When connection dimensions are different from our standard ratings, corresponding reducers may be provided by us.

Technical variations to RMA valves

No brochure is complete. We strive to accommodate your specific requirements or deviations from our standard ratings.

RMA quality

Products manufactured in the RMA works are renowned for their high quality.

We have DIN ISO 9001 approval, as well as many other customer and official approvals in compliance with German and International Standards.

Of course, all fittings illustrated in this brochure conform to national as well as international standards, e.g. in Germany to DVGW and TÜV Standards as applicable.

RMA manufacturing line

We have specialized in a wide range of high quality products for the transport of media in pipelines. Examples of the various product groups are illustrated on the back of this brochure.

For further details or specific brochures please contact us.

In addition to our own RMA products, we also manufacture special components according to customer specifications.

Technical modifications reserved.

Conduit Gate Valve ASR



Conduit Gate Valve ASR

PN 4 - 100

Description

1. General characteristics

The RMA gate valve type "ASR" is an extremely robust welded-steel, dust-resistant shut-off valve for installation in gas pipelines (coking plants, fission and natural gas)

2. Construction / Function

The main features of this metal-sealing, single-plate-parallel gate valve are the precision machined lipped surfaces of the close and guide plates, which, by pre-application with spring washers, are floating-mounted.

This system ensures a gapless movement of close plate over entire stroke with internal spindle thread.

The totally gapless metal seal prevents penetration of dirt during opening and closing of close-plate. That keeps the seal-area undamaged and guarantees at the same time a consistent lasting operation life. In the open position the non-reduced type offers a full piggable passage. (With PE-connection only upon request.)

Flow direction is arbitrary and a durable sealing is made either on one side of the pressurization or on both sides.

To ensure permanent lubrication and conservation of moving parts, the interior of housing is filled with a special oil.

This gate valve ensures a permanent and easy operation, with a nearly unchanged torque.

The drain plug on housing lid serves for oil filling, level checking, to pump off water after a hydraulic pressure test on the construction site and for destressing of housing.

3. Corrosion prevention

The outer shell has as standard a PUR (polyurethane) coating (in accordance with DIN 30677).

4. Bleed pipe

See ROTARY GATE VALVE Type "DSR".

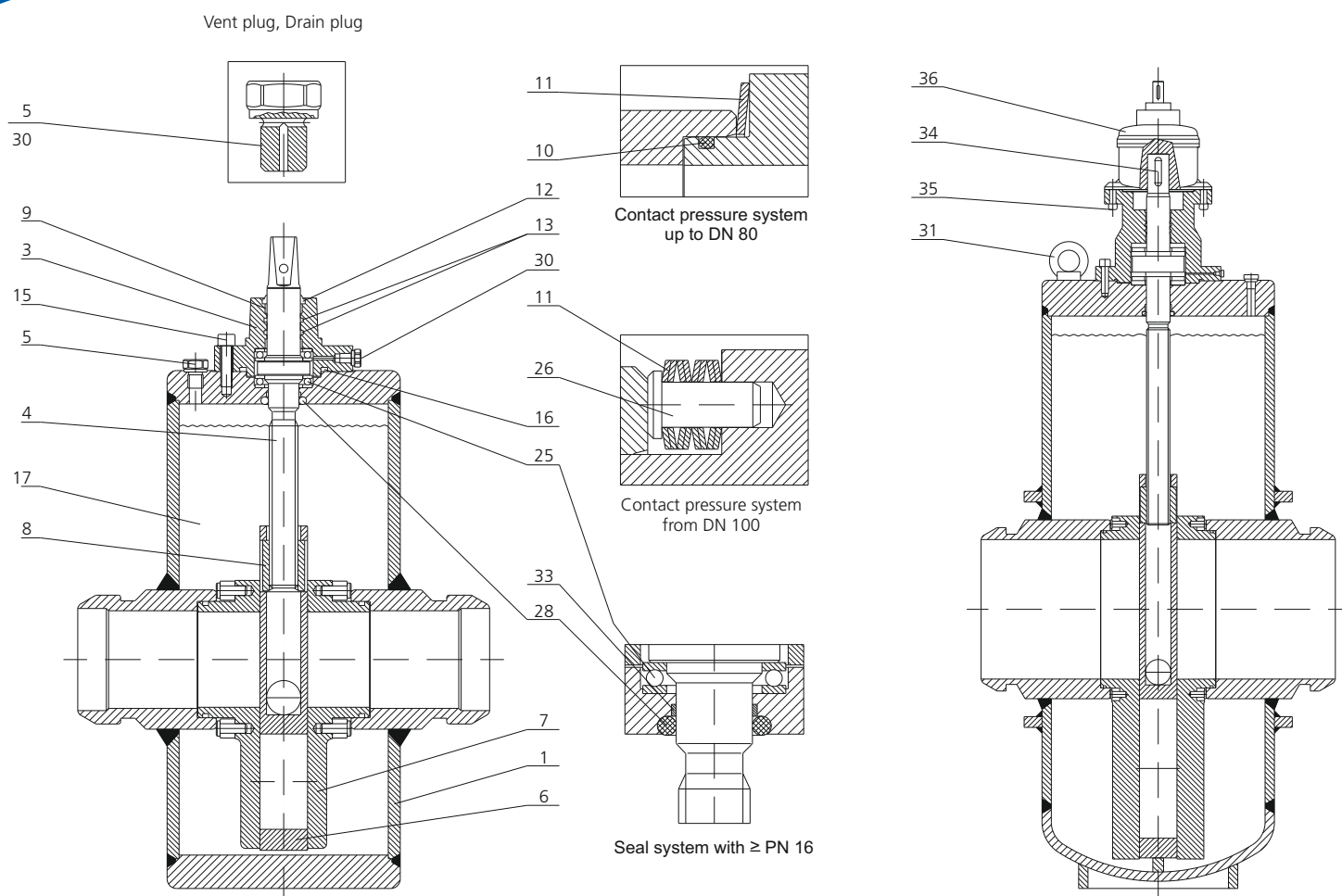
5. Reception test

DIN 3230 part 5 test group PG 3

6. Additional document

Operating-, Maintenance-, and Repair Instructions.

Conduit Gate Valve ASR



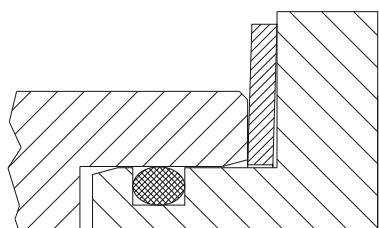
Pos. Item	Description
1	Housing
3	Flange
4	Spindle
5	Drain plug
6	Close plate
7	Sealing plate
8	Spindle nut
9	DU-bearing
10	O-ring
11	Single Belleville spring
12	Wiper ring
13	O-ring

Pos. Item	Description
15	Hex. socket cap screw
16	O-ring
17	Oil filling
25	Ball bearing
26	Guide pin
28	O-ring
30	Vent plug
31*	Eye bolt
33	Stem-bearing
34	Feather (key)
35	Hex. socket cap screw
36	Gear

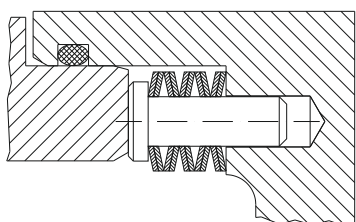
* see tables on page 6, 7, 8, 9 and 10

Conduit Gate Valve ASR

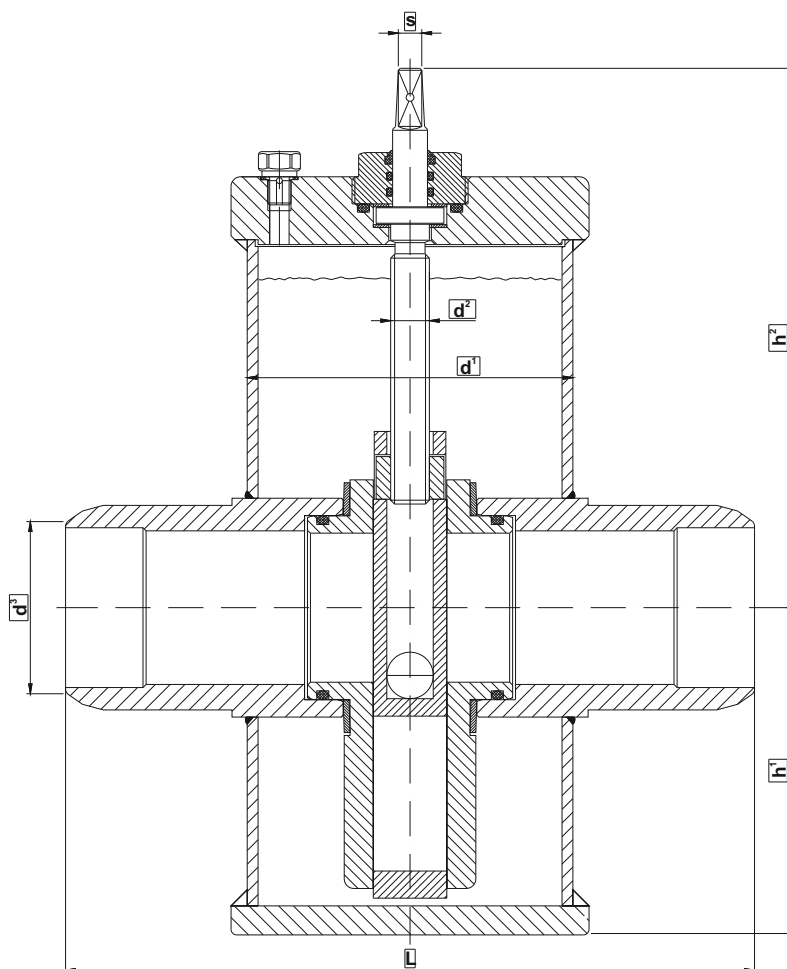
PN 4 - 6 with steel weld ends



Contact pressure system up to DN 80



Contact pressure system DN 100 and above



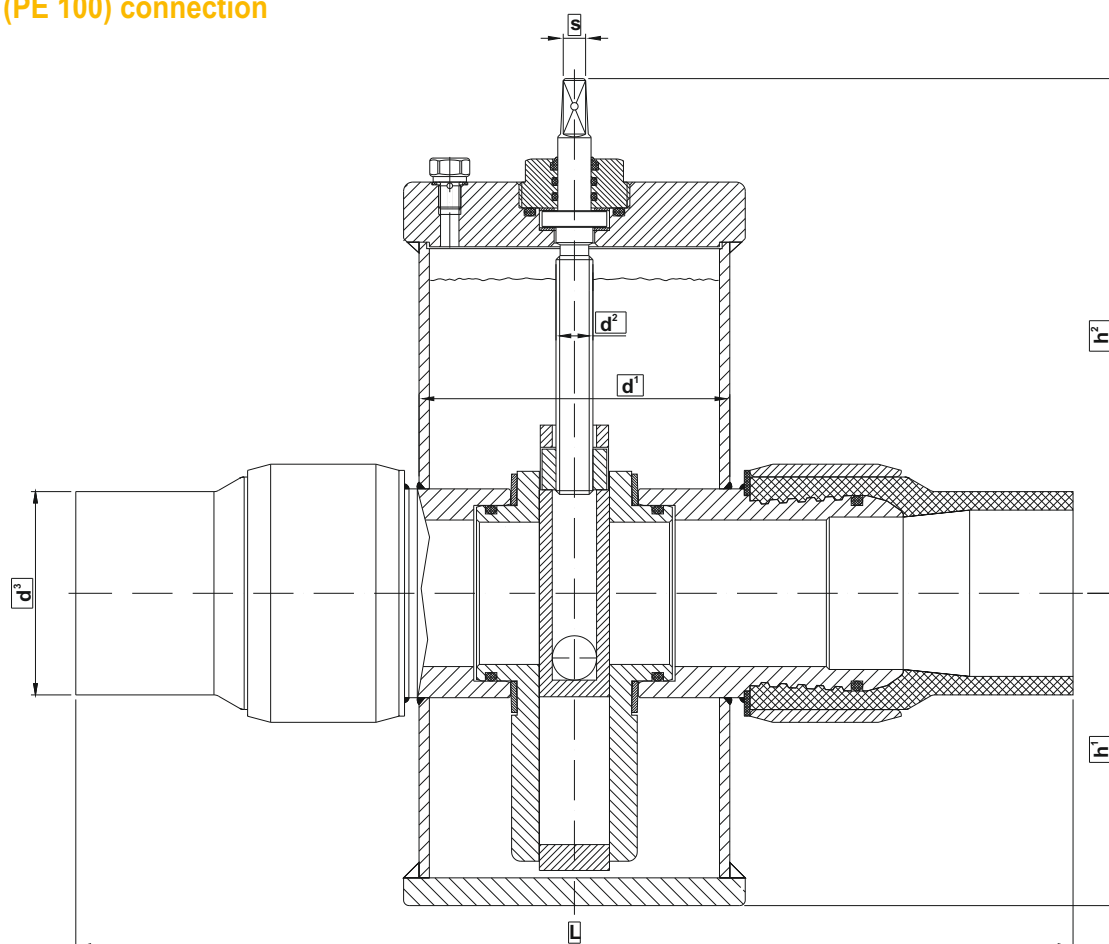
Description	Material
Housing	P275NL1
Union pipe	P275NL1
Close plate	EN-GJS-500-7 (GGG-50)

Conduit gate valve DN 300 with lifting lugs

ASR PN4/6	DN 50	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300
s	12	12	12	12	19	27	27
d ¹	152	169	203	267	324	419	508
d ²	18	20	22	24	26	40	40
d ³	60.3	88.9	114.3	168.3	219.1	273	323.9
h ¹	130	169	203	298	375	480	607
h ²	230	278	332	420	540	755	832
L=length EN 12982 Reihe 5	292	356	432	559	660	787	838
Turn/Stroke	17	25	23,5	34,5	44,5	40	48
Weight in kg	26	41	70	147	236	500	750

Conduit Gate Valve ASR

with PE-HD (PE 100) connection

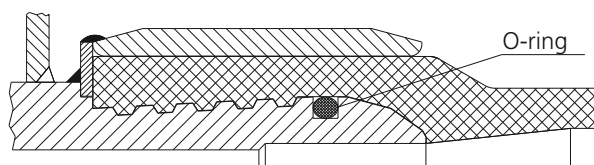


PE-Detail

With PE-connections the inside diameter of conduit gate valves is usually reduced.

The full bore size version has to be requested by customer.

The standard connection is for the PE-pipe series 5.

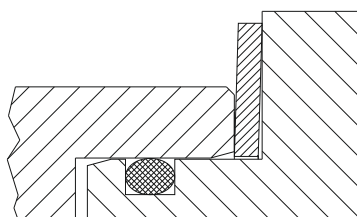


Conduit gate valve without lifting lugs

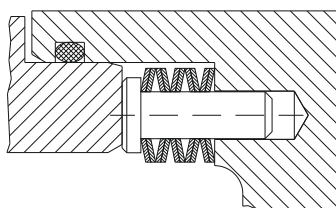
ASR	DA 50/63	DA 90	DA 110/125	DA 160/180	DA 200/225	DA 250/280
s	12	12	12	12	12	19
d ¹	152	152	168	203	267	324
d ²	18	18	20	22	24	26
d ³	50/63	90	110/125	160/180	200/225	250/280
h ¹	107	138	169	203	298	375
h ²	212	250	278	332	420	540
L=length EN 12982 Reihe 5	600	700	740	930	1140	1140
Turn/stroke	14	20	25	23,5	34,5	44,5
Weight in kg	18	35	47	80	160	250

Conduit Gate Valve ASR

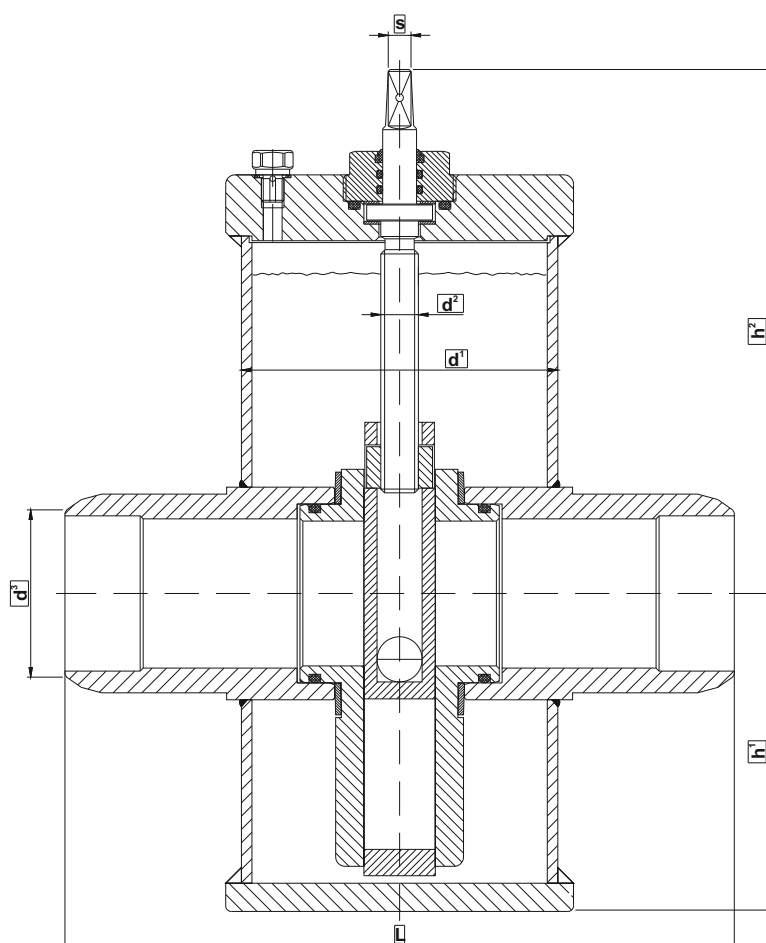
PN 16
with steel weld ends



Contact pressure system up to DN 80



Contact pressure system DN 100 and above



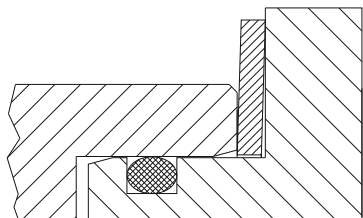
Description	Material
Housing	DN 50 - DN 300 P275NL1
	DN 400 + DN 500 P265GH (H II)
Union pipe	DN 50 - DN 300 P275NL1
	DN 400 + DN 500 P355NH
Close plate	EN-GJS-500-7 (GGG-50)

Conduit gate valve DN 300 with lifting lugs

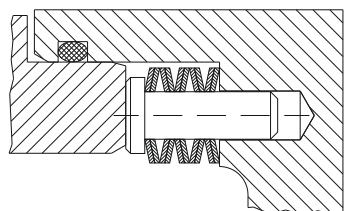
ASR PN 16	DN 50	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300	DN 400	DN 500
s	12	12	12	12	19	27	27	Ø30*	Ø30*
d ¹	152	169	203	267	324	419	508	610	720
d ²	18	20	22	24	26	40	40	55	55
d ³	60.3	88.9	114.3	168.3	219.1	273	323.9	406.4	508
h ¹	130	169	203	298	375	480	607	780	925
h ²	230	278	332	420	540	755	832	1388**	1537**
L=length EN 12982 Reihe 5	292	356	432	559	660	787	838	991	1194
Turn/stroke	17	25	23,5	34,5	44,5	40	48	48***	60***
Gear	-	-	-	-	-	40-	-	1:4	1:4
Weight in kg	26	41	70	147	236	500	750	1580	2500
* gear connection		** dim. incl. gear			*** turns of the spindle				

Conduit Gate Valve ASR

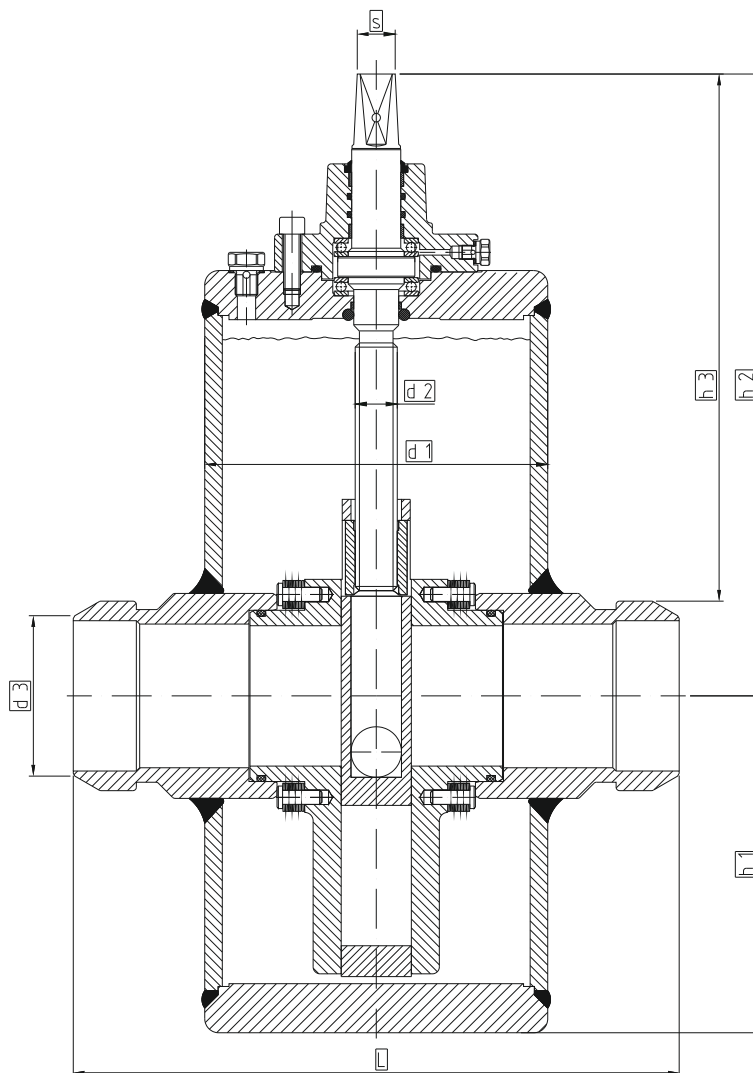
PN 25



Contact pressure system up to DN 80



Contact pressure system DN 100 and above

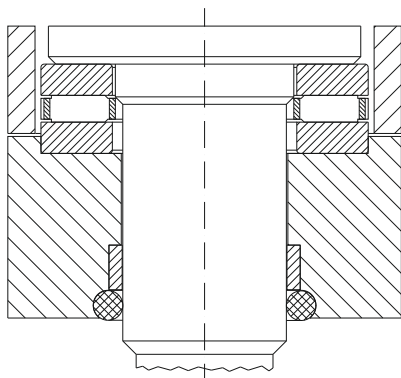


Description	Material
Housing	DN 50 - DN 300 P275NL1 DN 400 + DN 500 P265GH (H II)
Union pipe	DN 50 - DN 300 P275NL1 DN 400 + DN 500 P355NH
Close plate	EN-GJS-500-7 (GGG-50)

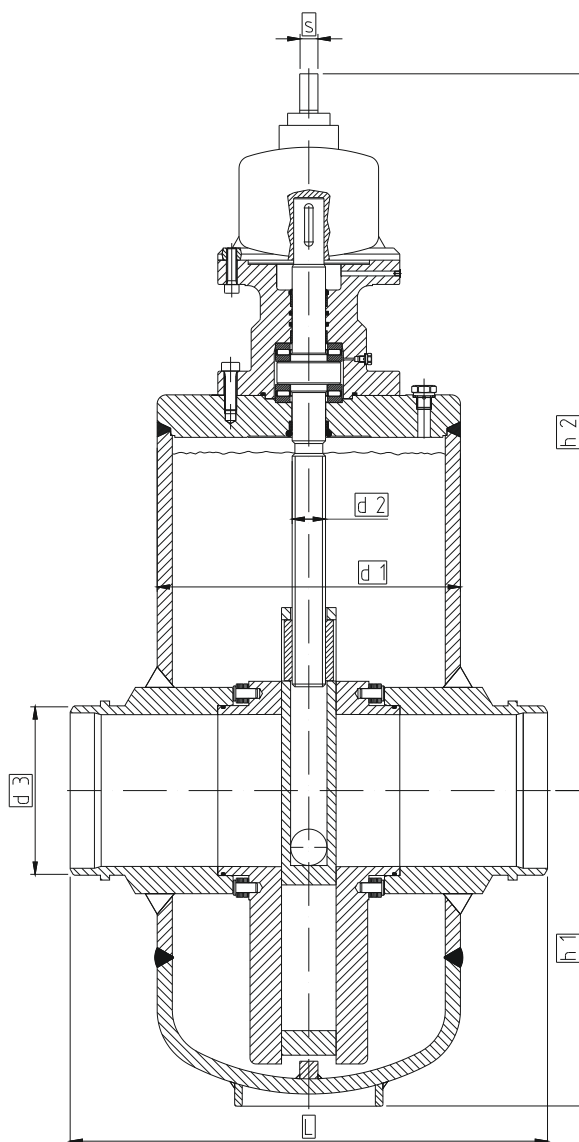
DN 150 and larger with lifting lugs

ASR PN 25	DN 50	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300	DN 400	DN 500
s	12	19	27	27	27	27	27	Ø30*	Ø30*
d ¹	159	194	245	273	356	419	508	610	720
d ²	20	26	30	30	36	40	40	55	55
d ³	60.3	88.9	114.3	168.3	219.1	373	323.9	406.4	508
h ¹	140	199	240	310	398	480	607	780	925
h ²	267	369	443	511	600	755	832	1388**	1537**
L=length EN 12982 Reihe 5	292	356	432	559	660	787	838	991	1194
Turn/stroke	17	20	25	30	40	40	48	48***	60***
Gear	-	-	-	-	-	-	-	1:4	1:4
Weight in kg	23	60	115	180	320	500	750	1580	2500
* gear connection		** dim. incl. gear			*** turns of the spindle				

PN 40 - 100 with steel weld ends



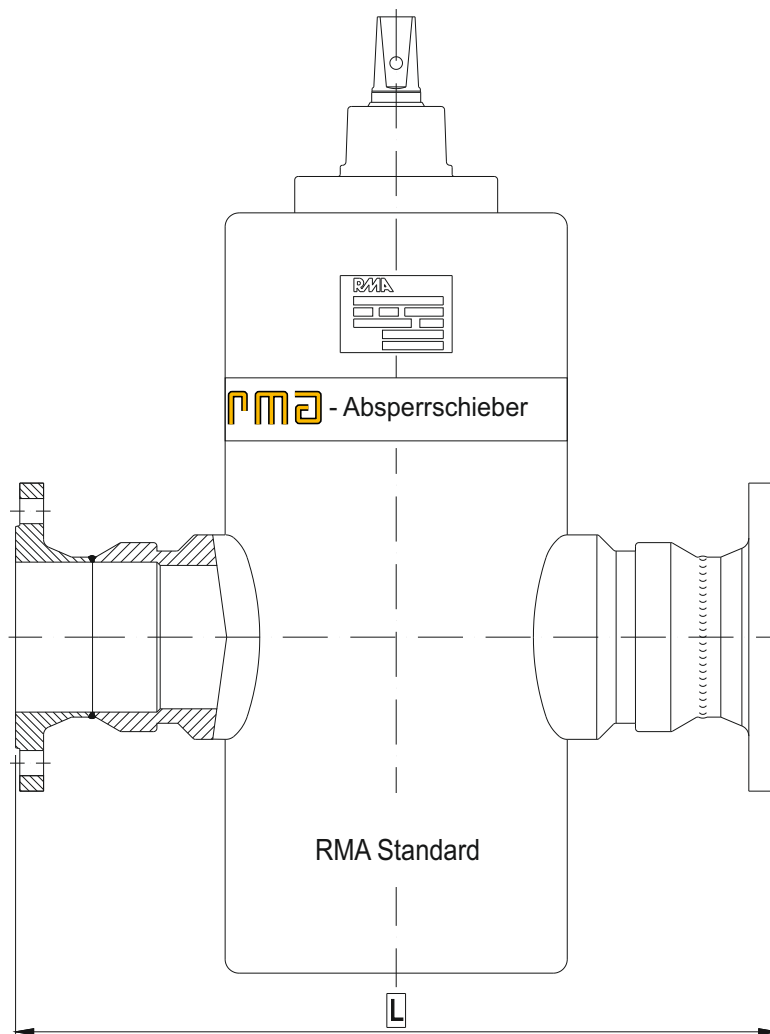
Description	Material
Housing	DN 50 - DN 150 P275NL1 DN 200 L360NB DN 250 P275NH DN 300 - DN 400 L360NB (StE 360.7)
Union pipe	DN 50 - DN 200 P275NL1 DN 250 + DN 400 P355NH
Close plate	P265GH (H II nickel plated)



ASR PN 40 - 100	DN 50	DN 80	DN 100	DN 150	DN 200+	DN 250	DN 300	DN 400	
s	12	19	27	27	Ø30*	Ø30*	Ø30*	Ø30*	
d ¹	159	194	245	322	419	500	572	650	
d ²	20	26	30	36	44	55	65	65	
d ³	60.3	88.9	114.3	168.3	219.1	273	323.9	406.4	
h ¹	140	199	240	320	440	520	620	780	
h ²	267	369	443	584	1018**	1180**	1285**	1476**	
L=length EN 12982 Reihe 5	292	356	432	559	660	787	838	991	
Turn/stroke	17	20	25	29	32***	32***	33***	45***	
Gear	-	-	-	-	1:4	1:8	1:8	1:8	
Weight in kg	23	60	115	280	600	980	1530	2240	
* gear connection	** dim. incl. gear				*** turns of the spindle				

Conduit Gate Valve ASR

Lengths with flange connection



Length RMA Standard
weld end version + flange

		DN 50	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300	DN 400	DN 500
PN 6	DIN 2631	371	443	525	658	773	910	965	1124	1333
PN 10	DIN 2632	385	459	539	672	787	926	977	1138	1347
PN 16	DIN 2633	385	459	539	672	787	930	997	1164	1377
PN 25	DIN 2634	391	475	565	712	823	966	1025	1214	1447
PN 40	DIN 2635	391	475	565	712	839	1000	1071	1264	-
PN 64	DIN 2636	419	503	591	752	883	1040	1121	1314	-
PN 100	DIN 2637	431	515	615	792	923	1104	1181	-	-
ANSI 600	ANSI B16.5	455	538	652	810	944	1109	1166	1363	1592

Special version upon request