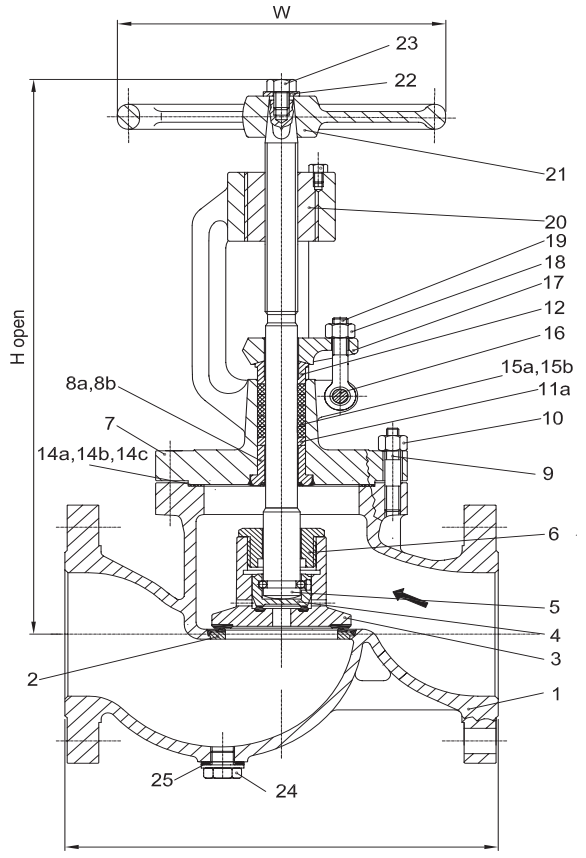
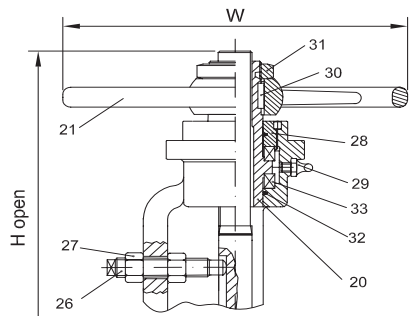


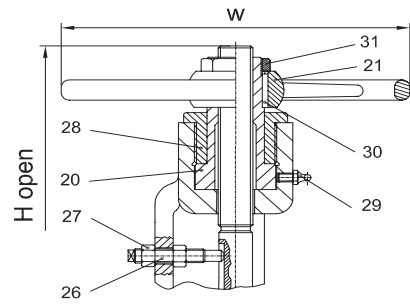
# DIN GLOBE VALVE



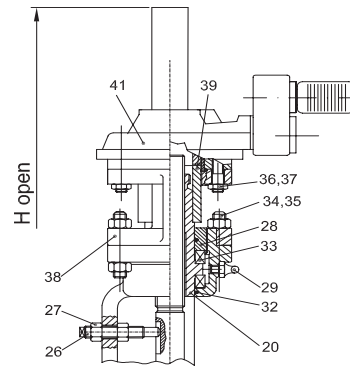
The Science Of Detail



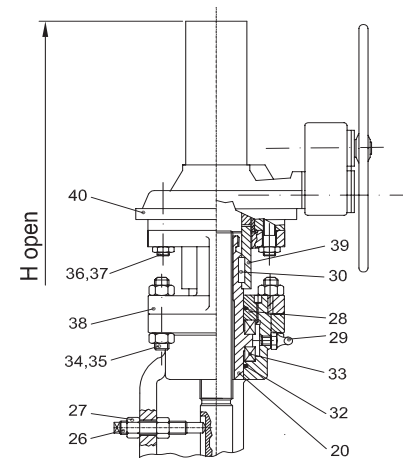
DN 125 ÷ DN 300 PN 100 ÷ PN 400  
VALVE WITH HANDHEEL



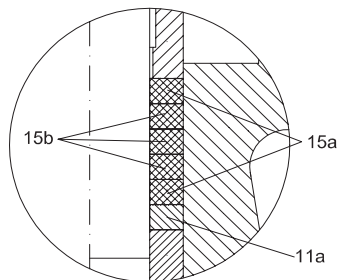
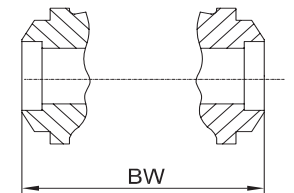
DN 15 ÷ DN 100 PN 100 ÷ PN 400  
VALVE WITH HANDHEEL



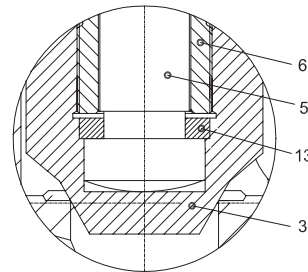
VALVE WITH ELECTRIC ACTUATOR



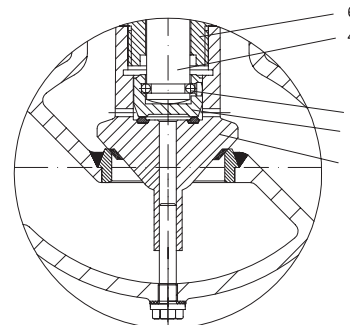
VALVE WITH MANUAL OPERATOR



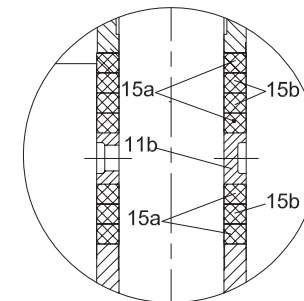
Version from execution  
standard



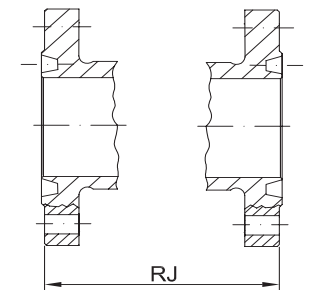
DN 15 ÷ DN 65 PN 16 ÷ PN 64  
DN 15 and DN 50 PN 100 ÷ PN 400



Version from execution  
with parabolic disk



Version from execution  
with lantern



# DIN GLOBE VALVE

ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF; BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	
	H	300	335	335	420	420	420	520	560	640	730	890	1070	1250	1450	
	W	178	178	178	178	178	178	229	254	254	356	356	356	406	559	
	Weight	RF	7	8	9	11	16	21	35	38	63	92	121	182	295	460
	BW	6	7	8	9	14	18	32	34	58	86	114	171	280	438	
ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF; BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	
	H	300	335	335	420	420	420	520	560	640	730	890	1070	1250	1450	
	W	178	178	178	178	178	178	229	254	254	356	356	356	406	559	
	Weight	RF	7	8	9	11	16	21	45	48	73	102	131	192	305	470
	BW	6	7	8	9	14	18	41	45	68	96	124	175	281	439	
ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF; BW	130	150	160	180	200	230	290	310	350	400	480	600	730	850	
	H	300	335	335	420	420	420	520	560	640	730	890	1070	1250	1450	
	W	178	178	178	178	178	178	229	254	254	356	356	356	406	559	
	Weight	RF	7	8	9	11	16	21	45	53	80	117	151	220	345	500
	BW	6	7	8	9	14	18	42	48	73	108	139	200	310	450	
ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF	210	230	230	260	260	300	340	380	430	500	550	650	775	900	
	BW	150	150	160	180	210	250	340	380	430	500	550	650	775	900	
	H	440	440	440	530	540	540	650	700	930	1040	1080	1250	1280	1310	
	W	229	229	229	254	254	254	254	356	356	406	406	508	559	660	
64	Weight	RF	11	15	18	22	27	32	48	65	85	132	195	335	475	650
	BW	10	14	16	20	24	27	43	58	75	117	173	300	425	581	
ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF	210	230	230	260	260	300	340	380	430	500	550	650	775	900	
	BW	150	150	160	180	210	250	340	380	430	500	550	650	775	900	
	H	440	440	440	530	540	540	650	700	930	1040	1080	1250	1280	1310	
	W	229	229	229	254	254	254	254	356	356	406	406	508	559	660	
100	Weight	RF	14	18	20	26	34	48	64	78	115	165	245	375	520	785
	BW	13	16	20	24	30	42	56	69	101	142	215	322	438	663	
ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF	210	230	230	260	260	300	340	380	430	500	550	650	775	900	
	BW	150	150	160	180	210	250	340	380	430	500	550	650	775	900	
	H	440	440	440	530	540	540	650	700	930	1040	1080	1250	1280	1310	
	W	229	229	229	254	254	254	254	356	356	406	406	508	559	660	
160	Weight	RF	18	26	38	50	78	100	145	180	270	445	620	1340	2040	2640
	BW	16	23	34	44	74	94	136	170	255	422	587	1280	1945	2504	
ND		15	20	25	32	40	50	65	80	100	125	150	200	250	300	
NP	RF	230	260	260	300	300	350	400	450	520	600	700	800	900	1050	
	BW	150	150	160	180	210	250	400	450	520	600	700	800	900	1050	
	H	460	460	460	550	560	560	670	720	950	1060	1100	1270	1300	1340	
	W	254	254	254	305	305	305	356	406	406	508	508	559	660	762	
250	Weight	RF	24	32	45	68	82	100	145	220	390	640	890	2090	3195	4400
	BW	22	29	41	63	75	92	132	204	363	602	832	1985	3013	4160	

## 1. USE:

Extraction, transportation and distribution systems in: water, steam, gas and oil industry.

## 2. SERVICE CONDITIONS:

- 2.1. Ambient temperature: from - 35° C to + 40° C
- 2.2. Service temperature: from -45° C to + 600° C

## 3. TECHNICAL CHARACTERISTICS:

3.1. Design standard: DIN 3356

3.2. End-to-end dimensions:

NP 16 ÷ NP 40

EN-558-1 1 series and DIN 3202  
part 1 row F1 for RF  
part 2 row S1 for BW

NP 64 ÷ NP 160

EN-558-1 2 series and DIN 3202  
part 1 row F2 for RF  
part 2 row S3 for BW

NP 250

DIN 3202  
part 1 row F3 for RF  
part 2 row S4 for BW

3.3. Connection flanges:

General Standard:

DIN 2501 and DIN 2526; DIN 2512; DIN 2513

Flanges Standard:

DIN 2543 for:NP 16

DIN 2544 for:NP 25

DIN 2545 for:NP 40

DIN 2546 for:NP 64

DIN 2547 for:NP 100

DIN 2548 for:NP 160

DIN 2549 for:NP 250

3.4. Weld ends: DIN 3239

3.5. Temperature pressure rating: DIN 2401.

3.6. Testing: DIN 3230 and ISO 5208.

3.7. Operation: manual

- handwheel

- gear

electrical

- actuator

## 4. MATERIALS

No.	Name of Part		DIN SPECIFICATION						
			Standard	High Temperature			Low Temperature Service		
				-30°C÷400°C	-30°C÷450°C	-30°C÷530°C	-30°C÷550°C	-30°C÷600°C	-40°C÷345°C
1	Body		GP 240 GH	G 20 Mo 5	G17 Cr Mo 5-5	G 17 Cr Mo 9-10	GX 15 Cr Mo 5	G 20 Mo 5	G 18 Mo 5
2	Disc Seat	Forged	X 10 Cr 13	X 10 Cr 13	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Ti 18.9	X 10 Cr Ni Ti 18.9
		Casting	GP 240 GH	G 20 Mo 5	G 17 Cr Mo 5-5	G 17 Cr Mo 9-10	GX 15 Cr Mo 5	G 20 Mo 5	G 18 Mo 5
3	Discharge Globe		X 10 Cr 13	X 10 Cr 13	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Ti 18.9	X 10 Cr Ni Ti 18.9
4	Stem		X 10 Cr 13	X 10 Cr 13	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Ti 18.9	X 10 Cr Ni Ti 18.9
5	Disc Nuts		Ck 45	Ck 45	24 Cr Mo 5	24 Cr Mo V-55	24 Cr Mo V-55	24 Cr Mo 5	24 Cr Mo 5
6	Bonnet		GP 240 GH	G 20 Mo 5	G17 Cr Mo 5-5	G 17 Cr Mo 9-10	GX 15 Cr Mo 5	G 20 Mo 5	G 18 Mo 5
7a	Backseat	Thread	X 10 Cr 13	X 10 Cr 13	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Ti 18.9	X 10 Cr Ni Ti 18.9
7b		Welded	Ck 25	15 Mo 3	24 Cr Mo V-55	10 Cr Mo 9.10	12 Cr Mo 19.5	TT StE 36	15 Mo 3
8	Bonnet Studs		42 Cr Mo4	42 Cr Mo4	24 Cr Mo V-55.1	21 Cr Mo V-51.1	21 Cr Mo V-51.1	42 Cr Mo4	42 Cr Mo4
9	Bonnet Nuts		Ck 45	Ck 45	24 Cr Mo 5	24 Cr Mo V-55	24 Cr Mo V-55	24 Cr Mo 5	24 Cr Mo 5
10a	Packing Washer		Ck 25	15 Mo 3	24 Cr Mo V-55	10 Cr Mo 9.10	12 Cr Mo 19.5	TT StE 36	15 Mo 3
10b	Lantern		Ck 25	15 Mo 3	24 Cr Mo V-55	10 Cr Mo 9.10	12 Cr Mo 19.5	TT StE 36	15 Mo 3
11	Gland		Ck 25	15 Mo 3	24 Cr Mo V-55	10 Cr Mo 9.10	12 Cr Mo 19.5	TT StE 36	15 Mo 3
12	Retainer Ring		X 10 Cr 13	X 10 Cr 13	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Mo Ti 18.9	X 10 Cr Ni Ti 18.9	X 10 Cr Ni Ti 18.9

No.	Name of Part	
13	Bonnet Gasket	Plane gasket – graphite with metal filler class 150
		Spiral wound gasket – stainless steel with graphite filler
		Ring-Joint gasket – carbon steel or stainless steel, as required
14	Packing	Graphite with metal filler and corrosion inhibitor
		Graphite with corrosion inhibitor
15	Gland Lug Bolts	C 35
16	Gland Flange	C 22.3 / ST 37 – 3N
17	Gland Nuts	Ck 45
18	Gland Bolts	42 Cr Mo 4
19	Stem Bushing	A439-D2C
20	Handwheel	GP 240 GH
21	Plate	Carbon Steel
22	Cap Screw	42 Cr Mo 4
23	Threaded Plug	42 Cr Mo 4
24	Threaded Plug Gasket	Graphite
25	Lockbolts	42 Cr Mo 4
26	Screw Nuts	Ck 45
27	Locknut	Carbon Steel
28	Lubricant Fitting	Commercial
29	Handwheel Key	Carbon Steel
30	Handwheel Nuts	Carbon Steel
31	Ring	Viton
32	Bearings	Commercial
33	Yoke Bolts	42 Cr Mo 4
34	Yoke Nuts	Ck 45
35	Actuator Bolts	Commercial
36	Actuator Nuts	Commercial
37	Linking part	GP 240 GH
38	Actuator Bushing	Carbon Steel
39	Manual Actuator	Commercial
40	Electric Motor Actuator	Commercial

## 5. BASIC TRIM MATERIALS

TRIM Number	Nominal TRIM	Material Type	Seat Surface	Stem	Backseat Bushing
			Hardness [HB]		
1	F6	13 Cr	250 min.	200 min.-275 max.	250 min.
			300 min.		
2	304	18 Cr – 8 Ni	Manufacturer's Standard		
5	HF	Co – Cr A	350 min.	200 min-275 max.	250 min.
5A		Ni – Cr			
8	F6 / HF	13 Cr	250 min.	200 min-275 max.	250 min.
		Co – Cr A	350 min.		
8A	F6 / HF	13 Cr	250 min.	200 min-275 max.	250 min.
		Ni – Cr	350 min.		
10	316	18 Cr – 8 Ni - Mo	Manufacturer's Standard		
12	316 / HF	18 Cr – 8 Ni - Mo	Manufacturer's Standard		
		Co – Cr A	350 min.	Manufacturer's Standard	
12A	316 / HF	18 Cr – 8 Ni - Mo	Manufacturer's Standard		
		Ni - Cr	350 min.	Manufacturer's Standard	



SC ARIO SA  
 10 Industriei Street  
 4400 - Bistrita, Romania  
 phone: +40-263-234160  
 fax: +40-263-234008  
 e-mail: info@ario.ro  
 www.ario.ro