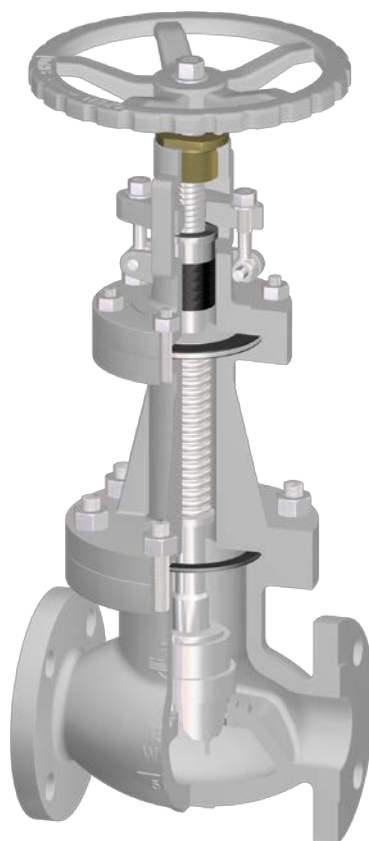


SERIES 84 ANSI RANGE

Series 84 Globe Valves are linear motion valves devised for stopping the flow of the service fluid when necessary. They are bolted bonnet, outside screw and yoke, rising handwheel, being the closure element a disc seating against a precisely machined seat thus achieving the positive closure. The atmospheric sealing is achieved by flexible graphite rings. The flow comes upwards underneath the seat, being an unidirectional valve. Weir body leads to higher pressure drop compared to gate valves but operation is quicker and this feature allows to use the valve as regulating valve when arranged with throttling plug. Valves are of easy and safe operation being widely used in power, chemical and oil industry. The range is also comprehensive o a wide offer of different versions and options. The standard operation is achieved by handwheel or gear, depending on valve size and working pressure. Valves can also be arranged for automation with different kinds of actuators.



Outside screw and yoke

Ergonomic rising handwheel

Precise machining of components
for optimal performance

Marking for identification and full traceability purpose

Seat surface can be hardened to increase wear resistance

Great versatility in end connections,
materials and configurations

Valve disc guide feature

Main Features / Reference Standards

Design: BS 1873 / ASME B16.34
Pressure Rating: 150/300/600#
Face to face length: ASME B16.10
Valve end connections: Flanged RF or RTJ to ASME B16.5
Welded BW to ASME B16.25

Marking: MSS SP-25

Inspections & Tests: API 598

Unidirectional design. See the arrow on the body for normal flow direction

Primer painted grey color similar to RAL 7037 for protection during storage and transport (carbon steel body/bonnet)

Product compliant with Directive 2014/68/EU on Pressure Equipment (PED) and Machinery Directive 2006/42/EC for European Union territory

Main Duties / Limits of use

Fluids compatible with materials of construction. Questions referring to chemical resistance, please consult us
Pressure / Temperature Rating to ASME B16.34. See section "Engineering & Performance Data"
For products compliant with Directive 2014/68/EU, observe also limits acc. to Annex II tables 6 & 8 (gases & liquids group 1*)
and tables 7 & 9 (gases & liquids group 2*) up to category III

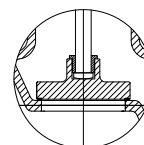
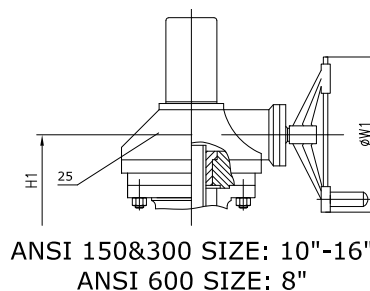
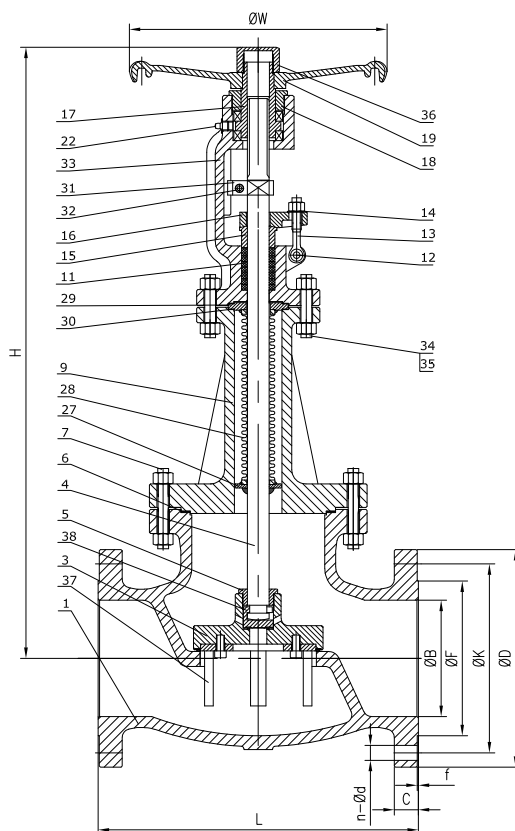
*Classification of fluids (group 1 or 2) acc. to Directive 2014/68/EU, Article 13

Options

Different body materials and trim combinations, different valve connections, angle pattern, Y-Pattern, regulating plug, extended bonnet, bellow seal, pressure seal, welded bonnet, lantern ring with double packing, live loaded packing, chained hand wheel, manual gear, pneumatic, electric or hydraulic actuation, limit switches, execution for aggressive atmosphere, etc. Please consult us

Main Parts and Materials

SERIES 84 ANSI RANGE



ANSI 150&300 SIZE: 2"-4"
ANSI 600 SIZE: 2"-3"

Main Parts and Materials

No.	Part name	A216 WCB		
		Trim 1 (84A01)	Trim 5 (84A05)	Trim 8 (84A08)
1	Body	ASTM A216 WCB+13Cr	ASTM A216 WCB+HF	ASTM A216 WCB+HF
3	Disc	ASTM A105+13Cr	ASTM A105+HF	ASTM A105+13Cr
4	Stem		ASTM A182 F6a	
5	Disc Nut		ASTM A105	
6	Gasket		SS304+Graphite	
7	Bonnet Bolt		ASTM A193 B7	
8	Bonnet Nut		ASTM A194 2H	
9	Bonnet		ASTM A216 WCB	
11	Packing	Flexible Graphite (Ta-Luft certified available)		
12	Eyebolt Pin		AISI 1025	
13	Gland Eyebolt		ASTM A193 B7	
14	Gland Nut		ASTM A194 2H	
15	Packing Gland		ASTM A182 F6a	
16	Gland Flange		ASTM A216 WCB	
17	Stem Nut		ASTM A439 D2	
18	Retaining Nut		Carbon Steel/ Acero Carbono	
19	Handwheel		Carbon Steel/ Acero Carbono	
22	Grease Fitting		Brass	
25	Gear		Assembly	
27	Bellows Plate		A276 304	
28	Bellows	SS316L (SS316Ti/Inconel/Incoloy/Hastelloy available)		
29	Bellows Plate		ASTM A276 304	
30	Gasket		SS304+Graphite	
31	Positioner		Carbon Steel/ Acero Carbono	
32	Positioner Pin		AISI 1025	
33	Yoke		ASTM A216 WCB	
34	Yoke Nut		ASTM A194 2H	
35	Yoke Bolt		ASTM A193 B7	
36	Cap		Carbon Steel/ Acero Carbono	
37	Disc Guide		Carbon Steel/ Acero Carbono	
38	Pilot plug	ASTM A105+13Cr	ASTM A105+HF	ASTM A105+13Cr

Information / restriction of technical rules need to be observed!

Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

The engineer, designing a system or a plant, is responsible for the selection of the correct valve

Product suitability must be verified, contact manufacturer for information

Main Parts and Materials

No.	Part name	A352 LCB		A217 WC6	A217 WC9
		Trim 2 (84A82)	Trim 10 (84A8D)	(84B8_)	(84B9_)
1	Body	ASTM A352 LCB+SS304	ASTM A352 LCB+SS316	ASTM A217 WC6+HF	ASTM A217 WC9+HF
3	Disc	ASTM A182 F304	ASTM A182 F316	ASTM A182 F11+HF	ASTM A182 F22+HF
4	Stem	ASTM A182 F304	ASTM A182 F316	A182 F6a	
5	Disc Nut	ASTM A350 LF2		ASTM A182 F11	ASTM A182 F22
6	Gasket	SS304+Graphite	SS316+Graphite	SS304+Graphite	
7	Bonnet Bolt	ASTM A320 L7		ASTM A193 B16	
8	Bonnet Nut	ASTM A194 7		ASTM A194 4	
9	Bonnet	ASTM A352 LCB		ASTM A217 WC6	ASTM A217 WC9
11	Packing	Flexible Graphite(Ta-Luft certified available)		Flexible Graphite(Ta-Luft certified available)	
12	Eyebolt Pin	AISI 1025		AISI 1025	
13	Gland Eyebolt	ASTM A320 L7		ASTM A193 B16	
14	Gland Nut	ASTM A194 7		ASTM A194 4	
15	Packing Gland	ASTM A182 F304	ASTM A182 F316	ASTM A182 F6a	
16	Gland Flange	ASTM A352 LCB		ASTM A217 WC6	ASTM A217 WC9
17	Stem Nut	ASTM A439 D2		ASTM A439 D2	
18	Retaining Nut	Carbon Steel/ Acero Carbono		Carbon Steel/ Acero Carbono	
19	Handwheel	Carbon Steel/ Acero Carbono		Carbon Steel/ Acero Carbono	
22	Grease Fitting	Brass		Brass	
25	Gear	Assembly		Assembly	
27	Bellows Plate	ASTM A276 304	ASTM A276 316	A276 304	
28	Bellows	SS316L(SS316Ti/Inconel/Incoloy/Hastelloy available)		SS316L(SS316Ti/Inconel/Incoloy/Hastelloy available)	
29	Bellows Plate	ASTM A276 304	ASTM A276 316	A276 304	
30	Gasket	SS304+Graphite	SS316+Graphite	SS304+Graphite	
31	Positioner	Carbon Steel/ Acero Carbono		Carbon Steel/ Acero Carbono	
32	Positioner Pin	AISI 1025		AISI 1025	
33	Yoke	ASTM A352 LCB		ASTM A217 WC6	ASTM A217 WC9
34	Yoke Nut	ASTM A194 7		ASTM A194 4	
35	Yoke Bolt	ASTM A320 L7		ASTM A193 B16	
36	Cap	Carbon Steel/ Acero Carbono		Carbon Steel/ Acero Carbono	
37	Disc Guide	St.Steel 304	St.Steel 316	St.Steel 304	
38	Pilot plug	ASTM A182 F304	ASTM A182 F316	ASTM A182 F11+HF	ASTM A182 F22+HF

No.	Part name	A217 C5	CF8	CF8M
		(84C2_)	(84I2_)	(84I0_)
1	Body	ASTM A217 C5+HF	ASTM A351 CF8	ASTM A351 CF8M
3	Disc	ASTM A182 F9+HF	ASTM A182 F304	ASTM A182 F316
4	Stem		ASTM A182 F304	ASTM A182 F316
5	Disc Nut	ASTM A182 F9	ASTM A182 F304	ASTM A182 F316
6	Gasket		SS304+Graphite	SS316+Graphite
7	Bonnet Bolt		ASTM A193 B8	ASTM A193 B8M
8	Bonnet Nut		ASTM A194 8	ASTM A194 8M
9	Bonnet	ASTM A217 C5	ASTM A351 CF8	ASTM A351 CF8M
11	Packing		Flexible Graphite(Ta-Luft certified available)	
12	Eyebolt Pin		AISI 304	
13	Gland Eyebolt		ASTM A193 B8	ASTM A193 B8M
14	Gland Nut		ASTM A194 8	ASTM A194 8M
15	Packing Gland		ASTM A182 F304	ASTM A182 F316
16	Gland Flange	ASTM A217 C5	ASTM A351 CF8	ASTM A351 CF8M
17	Stem Nut		ASTM A439 D2	
18	Retaining Nut		Carbon Steel/ Acero Carbono	
19	Handwheel		Carbon Steel/ Acero Carbono	
22	Grease Fitting		Brass	
25	Gear		Assembly	
27	Bellows Plate		ASTM A276 304	ASTM A276 316
28	Bellows		SS316L(SS316Ti/Inconel/Incoloy/Hastelloy available)	
29	Bellows Plate		ASTM A276 304	ASTM A276 316
30	Gasket		SS304+Graphite	SS316+Graphite
31	Positioner		Carbon Steel/ Acero Carbono	
32	Positioner Pin		AISI 1025	
33	Yoke	ASTM A217 C5	ASTM A351 CF8	ASTM A351 CF8M
34	Yoke Nut		ASTM A194 8	ASTM A194 8M
35	Yoke Bolt		ASTM A193 B8	ASTM A193 B8M
36	Cap		Carbon Steel/ Acero Carbono	
37	Disc Guide		St.Steel 304	St.Steel 316
38	Pilot plug	ASTM A182 F9+HF	ASTM A182 F304	ASTM A182 F316

Main Valve Parameters - Class 150

SERIES 84 ANSI RANGE



Nominal Size		inch	2"	2-1/2"	3"	4"	5"	6"	8"
		DN	50	65	80	100	125	150	200
End connection	RF	L	203	216	241	292	356	406	495
		ØB	51	65	76	102	128	152	203
		ØD	150	180	190	230	255	280	345
		ØK	120,7	139,7	152,4	190,5	215,9	241,3	298,5
		ØF	92,1	104,8	127	157,2	185,7	215,9	269,9
		C	14,3	15,9	17,5	22,3	22,3	23,9	27
		f	2	2	2	2	2	2	2
		n-Ød	4 - 3/4	4 - 3/4	4 - 3/4	8 - 3/4	8 - 7/8	8 - 7/8	8 - 7/8
	BW	L1	203	216	241	292	356	406	495
		Schedule No.(1)	40	-	40	40	-	40	40
		ØB	51	65	76	102	128	152	203
		ØA1	60,3	-	91	117	-	172	223
		ØB1	52,48	-	78	102	-	154	203
	RTJ	L2	216	229	254	305	369	419	508
		ØB	51	65	76	102	128	152	203
		ØD	150	180	190	230	255	280	345
		ØK	120,7	139,7	152,4	190,5	215,9	241,3	298,5
		ØG	102	121	133	171	194	219	273
		ØP	82,55	101,6	114,3	149,23	171,45	193,68	247,65
		C	17,5	20,7	22,3	22,3	22,3	23,9	27
		n-Ød	4 - 3/4	4 - 3/4	4 - 3/4	8 - 3/4	8 - 7/8	8 - 7/8	8 - 7/8
		T	8,74	8,74	8,74	8,74	8,74	8,74	8,74
		S	6,35	6,35	6,35	6,35	6,35	6,35	6,35
		R	0,8	0,8	0,8	0,8	0,8	0,8	0,8
Top works/Operation	Hand-wheel	H (open)	391	459	500	593	-	682	779
		H (close)	376	439	475	563	-	642	724
		ØW	200	200	250	300	-	400	450
	Gear with handwheel	H1	-	-	-	-	-	-	-
		h1	-	-	-	-	-	-	-
		g	-	-	-	-	-	-	-
		ØW1	-	-	-	-	-	-	-
	With ISO 5210 mounting pad	h2	80	80	80	80	80	80	80
		ISO	F07	F07	F10	F10	F12	F12	F14
		Torque	25	44	58	88	141	180	320
Approx. Weight RF (3)			23	31	45	63	-	115	204

(1) Other schedule nos. on request

(2) Torque includes 30% of safety factor

(3) RTJ weight increases approx. by 10%

Dimensions in mm (except for bolt holes - Ød -, which are in inch units) subject to manufacturing tolerance

Kvs-values in m³/h / Torques in Nm / Weights in kg

For more information about flanged and welded ends refer to page 16

Main Valve Parameters - Class 150

SERIES 84 ANSI RANGE



Nominal Size		inch	10"	12"	14"	16"
		DN	250	300	350	400
End connection	RF	L	622	698	787	914
		ØB	254	305	337	387
		ØD	405	485	535	595
		ØK	362	431,8	476,3	539,8
		ØF	323,8	381	412,8	469,9
		C	28,6	30,2	33,4	35
		f	2	2	2	2
		n-Ød	12 - 1	12 - 1	12 - 1 1/8	16 - 1 1/8
	BW	L1	622	698	787	914
		Schedule No.(1)	40	STD	STD	STD
		ØB	254	305	337	387
		ØA1	278	329	362	413
		ØB1	254,5	305	336,5	387,5
	RTJ	L2	635	711	800	927
		ØB	254	305	337	387
		ØD	405	485	535	595
		ØK	362	431,8	476,3	539,8
		ØG	330	406	425	483
		ØP	304,8	381	396,88	454,03
		C	28,6	30,2	33,4	35
		n-Ød	12 - 1	12 - 1	12 - 1 1/8	16 - 1 1/8
		T	8,74	8,74	8,74	8,74
		S	6,35	6,35	6,35	6,35
		R	0,8	0,8	0,8	0,8
Top works/Operation	Hand-wheel	H (open)	-	-	-	-
		H (close)	-	-	-	-
		ØW	-	-	-	-
	Gear with handwheel	H1	956	1159	1390	1689
		h1	-	-	-	-
		g	-	-	-	-
		ØW1	460	540	540	540
	With ISO 5210 mounting pad	h2	100	100	100	120
		ISO	F16	F25	F25	F30
		Torque (Nm) (2)	465	780	1606	2219
Approx. Weight RF (3)		351	534	740	912	

- (1) Other schedule nos. on request
(2) Torque includes 30% of safety factor
(3) RTJ weight increases approx. by 10%

Dimensions in mm (except for bolt holes - Ød -, which are in inch units) subject to manufacturing tolerance
Kvs-values in m³/h / Torques in Nm / Weights in kg
For more information about flanged and welded ends refer to page 16

Main Valve Parameters - Class 300

SERIES 84 ANSI RANGE



Nominal Size		inch	2"	2-1/2"	3"	4"	5"	6"	8"
		DN	50	65	80	100	125	150	200
End connection	RF	L	267	292	318	356	400	444	559
		ØB	51	65	76	102	128	152	203
		ØD	165	190	210	255	280	320	380
		ØK	127	149,2	168,3	200	235	269,9	330,2
		ØF	92,1	104,8	127	157,2	185,7	215,9	269,9
		C	20,7	23,9	27	30,2	33,4	35	39,7
		f	2	2	2	2	2	2	2
		n-Ød	8 - 3/4	8 - 7/8	8 - 7/8	8 - 7/8	8 - 7/8	12 - 7/8	12 - 1
	BW	L1	267	292	318	356	400	444	559
		Schedule No.(1)	40	-	40	40	-	40	40
		ØB	51	65	76	102	128	152	203
		ØA1	60,3	-	91	117	-	172	223
		ØB1	52,48	-	78	102	-	154	203
	RTJ	L2	283	308	334	372	416	460	575
		ØB	51	65	76	102	128	152	203
		ØD	165	190	210	255	280	320	380
		ØK	127	149,2	168,3	200	235	269,9	330,2
		ØG	108	127	146	175	210	241	302
		ØP	82,55	101,6	123,83	149,23	180,98	211,12	269,88
		C	20,7	23,9	27	30,2	33,4	35	39,7
		n-Ød	8 - 3/4	8 - 7/8	8 - 7/8	8 - 7/8	8 - 7/8	12 - 7/8	12 - 1
		T	11,91	11,91	11,91	11,91	11,91	11,91	11,91
		S	7,92	7,92	7,92	7,92	7,92	7,92	7,92
		R	0,8	0,8	0,8	0,8	0,8	0,8	0,8
Top works/Operation	Hand-wheel	H (open)	409	481	529	621	-	808	976
		H (close)	394	461	504	591	-	768	721
		ØW	250	250	250	300	-	400	450
	Gear with handwheel	H1	-	-	-	-	-	-	-
		h1	-	-	-	-	-	-	-
		g	-	-	-	-	-	-	-
		ØW1	-	-	-	-	-	-	-
	With ISO 5210 mounting pad	h2	80	80	80	80	80	80	80
		ISO	F07	F10	F12	F12	F12	F14	F16
		Torque (Nm) (2)	40	77	105	175	293	380	700
Approx. Weight RF (3)			31	44	62	84	99	182	300

(1) Other schedule nos. on request

(2) Torque includes 30% of safety factor

(3) RTJ weight increases approx. by 10%

Dimensions in mm (except for bolt holes - Ød -, which are in inch units) subject to manufacturing tolerance

Kvs-values in m³/h / Torques in Nm / Weights in kg

For more information about flanged and welded ends refer to page 16

Main Valve Parameters - Class 300

SERIES 84 ANSI RANGE



Nominal Size		inch	10"	12"	14"	16"
		DN	250	300	350	400
End connection	RF	L	622	711	838	863
		ØB	254	305	337	387
		ØD	445	520	585	650
		ØK	387,4	450,8	514,4	571,5
		ØF	323,8	381	412,8	469,9
		C	46,1	49,3	52,4	55,6
		f	2	2	2	2
		n-Ød	16 - 1 1/8	16 - 1 1/4	20 - 1 1/4	20 - 1 3/8
	BW	L1	622	711	838	863
		Schedule No.(1)	40	STD	STD	STD
		ØB	254	305	337	387
		ØA1	278	329	362	413
		ØB1	254,5	305	336,5	387,5
	RTJ	L2	638	727	854	879
		ØB	254	305	337	387
		ØD	445	520	585	650
		ØK	387,4	450,8	514,4	571,5
		ØG	356	413	457	508
		ØP	323,85	981	419,1	469,9
		C	46,1	49,3	52,4	55,6
		n-Ød	16 - 1 1/8	16 - 1 1/4	20 - 1 1/4	20 - 1 3/8
		T	11,91	11,91	11,91	11,91
		S	7,92	7,92	7,92	7,92
		R	0,8	0,8	0,8	0,8
Top works/Operation	Hand-wheel	H (open)	-	-	-	-
		H (close)	-	-	-	-
		ØW	-	-	-	-
	Gear with handwheel	H1	1118	1287	1450	1760
		h1	-	-	-	-
		g	-	-	-	-
		ØW1	610	610	610	610
	With ISO 5210 mounting pad	h2	100	100	100	120
		ISO	F25	F30	F30	F30
		Torque (Nm) (2)	1125	1800	2100	2500
Approx. Weight RF (3)		541	725	830	1055	

(1) Other schedule nos. on request

(2) Torque includes 30% of safety factor

(3) RTJ weight increases approx. by 10%

Dimensions in mm (except for bolt holes - Ød -, which are in inch units) subject to manufacturing tolerance

Kvs-values in m³/h / Torques in Nm / Weights in kg

For more information about flanged and welded ends refer to page 16

Main Valve Parameters - Class 600

SERIES 84 ANSI RANGE



Nominal Size		inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
		DN	50	65	80	100	125	150	200	250	300
End connection	RF	L	292	330	356	432	508	559	660	787	838
		ØB	51	65	76	102	128	152	200	248	299
		ØD	165	190	210	275	330	355	420	510	560
		ØK	127	149,2	168,3	215,9	266,7	292,1	349,2	431,8	489
		ØF	92,1	104,8	127	157,2	185,7	215,9	269,9	323,8	381
		C	25,4	28,6	31,8	38,1	44,5	47,7	55,6	63,5	66,7
		f	7	7	7	7	7	7	7	7	7
		n-Ød	8 - 3/4	8 - 7/8	8 - 7/8	8 - 1	8 - 1 1/8	12 - 1 1/8	12 - 1/4	16 - 1 3/8	20 - 1 3/8
	BW	L1	292	330	356	432	508	559	660	787	838
		Schedule No.(1)	80	-	80	80	-	80	80	80	80
		ØB	51	65	76	102	128	152	200	248	299
		ØA1	60,3	-	91	117	-	172	223	278	329
		ØB1	49,22	-	73,5	97	-	146,5	193,5	243	289
	RTJ	L2	295	333	359	435	511	562	663	790	841
		ØB	51	65	76	102	128	152	200	248	299
		ØD	165	190	210	275	330	355	420	510	560
		ØK	127	149,2	168,3	215,9	266,7	292,1	349,2	431,8	489
		ØG	108	127	146	175	210	241	302	356	413
		ØP	82,55	101,6	123,83	149,23	180,98	211,12	269,88	323,85	381
		C	25,4	28,6	31,8	38,1	44,5	47,7	55,6	63,5	66,7
		n-Ød	8 - 3/4	8 - 7/8	8 - 7/8	8 - 1	8 - 1 1/8	12 - 1 1/8	12 - 1/4	16 - 1 3/8	20 - 1 3/8
		T	11,91	11,91	11,91	11,91	11,91	11,91	11,91	11,91	11,91
		S	7,92	7,92	7,92	7,92	7,92	7,92	7,92	7,92	7,92
		R	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
		H (open)	474	549	608	724	-	1016	1271	-	-
Top works/Operation	Hand-wheel	H (close)	449	529	583	694	-	976	1216	-	-
		ØW	250	250	350	400	-	500	610	-	-
		H1	-	-	-	-	-	-	-	1390	1390
	Gear with handwheel	h1	-	-	-	-	-	-	-	-	-
		g	-	-	-	-	-	-	-	-	-
		ØW1	-	-	-	-	-	-	-	610	610
		h2	80	80	80	80	103	120	140	140	140
	With ISO 5210 mounting pad	ISO	F12	F14	F14	F14	F25	F25	F30	F30	F35
		Torque (Nm) (2)	160	289	385	365	615	800	1658	2355	3100
		Approx. Weight RF (3)	49	65	80	134	-	333	620	901	901

(1) Other schedule nos. on request

(2) Torque includes 30% of safety factor

(3) RTJ weight increases approx. by 10%

Dimensions in mm (except for bolt holes - Ød -, which are in inch units) subject to manufacturing tolerance

Kvs-values in m³/h / Torques in Nm / Weights in kg

For more information about flanged and welded ends refer to page 16