

Product Brochure
EVOLUTION Double Eccentric Butterfly Valve



DOUBLE ECCENTRIC BUTTERFLY VALVE

EVOLUTION

TALIS' new double eccentric butterfly valve represents the essence of an efficient butterfly valve designed for when economy is a high priority.

EVOLUTION is functional and reliable, providing reduced complexity.

It covers the needs in standard applications for drinking water in terms of design, materials and standards.



ADVANTAGES

- └ **ESSENTIAL:** Design and material selection are optimized for use in low and medium pressure drinking water applications.
- └ **DURABLE:** Uninterrupted corrosion protection with pin-less connection and closed disc eyes ensure long service life and clean water.
- └ **EFFICIENT:** Flow-efficient design for minimized head loss and low energy consumption significantly reduces the cost of ownership.

CHARACTERISTICS

- └ **Economic solution** providing all required features for standard drinking water applications.
- └ **Long service life** due to uninterrupted corrosion protection and high quality components.
- └ **Clean drinking water by using** certified high quality components
- └ **100% tested** according to EN 12266-1

APPROVALS

- └ WRAS, ACS, CNAS

APPLICATIONS



Water treatment



Water distribution network

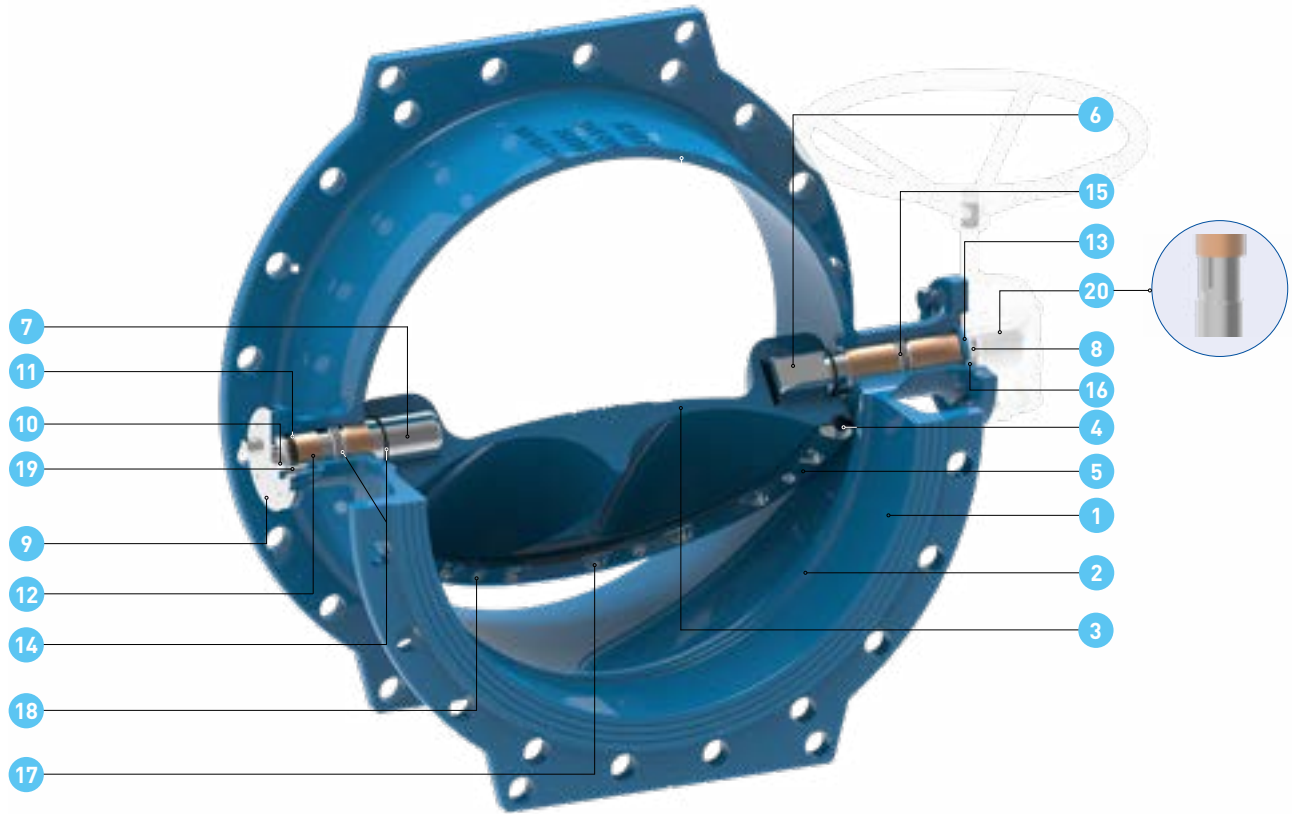


Water transmission

TECHNICAL DATA

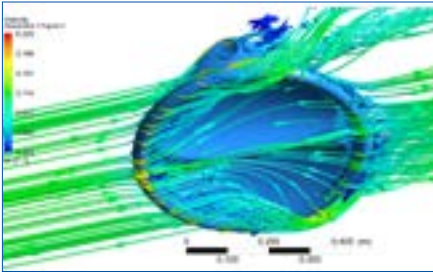
- └ **Nominal diameter (DN)**
DN200 - DN1800
- └ **Nominal pressure (PN)**
PN10 and PN16
- └ **Double eccentric butterfly valve** acc. to design standards EN 593 and EN1074-1/2
- └ **Face-to-face dimension** acc. to EN558 series 13 and series 14
- └ **Flange Drilling** acc. to EN 1092-2
- └ **Medium** Drinking water
- └ **Temperature** min. -10°C, max. +50°C
- └ **Coating** Epoxy min. 250 µm
- └ **Actuation types**
Handwheel or square cap
Prepared for electric actuation with handwheel
Electric actuation
Adapted for pneumatic actuation
- └ **Gearbox enclosure** IP67
Optional IP68 for submerged conditions or buried service

MAIN COMPONENTS



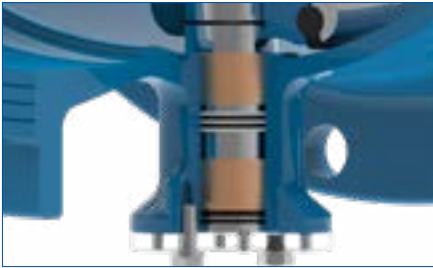
POS.	DESCRIPTION	MATERIAL - STANDARD	OPTIONAL	SPARE PART	WATER CONTACT
1	Body	EN-GJS-500-7, epoxy coated 250µm	300µm		x
2	Seat area	Integral, epoxy coated	Welded stainless steel AISI 309L		x
3	Disc	EN-GJS-500-7, epoxy coated 250µm	300µm		x
4	Sealing ring	EPDM	NBR	x	x
5	Retaining ring	CF8	CF8M, AISI 316Ti		x
6	Drive shaft	AISI 420	AISI 431, Duplex		x
7	Shaft	AISI 420	AISI 431, Duplex		x
8	Drive side cover	AISI 304			
9	End cover	AISI 304			
10	Spacer	AISI 304			
11	Washer	POM			
12	Bush	Self-lubricating steel + PTFE coated	Bronze + PTFE coated		x
13	U-ring	NBR		x	
14	O-ring	EPDM	NBR	x	x
15	Washer	PTFE		x	x
16	Screws	A2			
17	Screws	A2			x
18	Set screws	A2			
19	Screws	A2			
20	Key	C45			

BENEFITS AND FEATURES



1: Flow-efficient design

- Disc design and inner body diameter are designed for maximum flow
- Low energy consumption due to minimized head loss
- Reduced total cost of ownership**



4: Adjustable disc position

- Lower cover design allows axial adjusting of disc position over time **for vertical installations**
- Easy maintenance** without disassembling the valve



2: Optimized for drinking water

- Materials in contact with water are **certified high quality**
- WRAS and ACS approval** on components and full product
- Corrosion protection and stainless steel components ensure **clean water**



5: Low-wear sealing ring

- Saw-tooth profile for **self-sealing** effect and low friction
- Wearing is compensated by compressing the sealing ring over time
- High durability**



3: Uninterrupted corrosion protection

- Shaft-disc connection by means of a square shaft **without pins**
- Closed disc eyes
- 250 µm epoxy coating
- Clean water and high durability**



6: Self-lubricating bushes

- Self-lubricating** bushes of steel + bronze
- PTFE coated
- Without lead
- Maintenance-free**

ENERGY EFFICIENCY

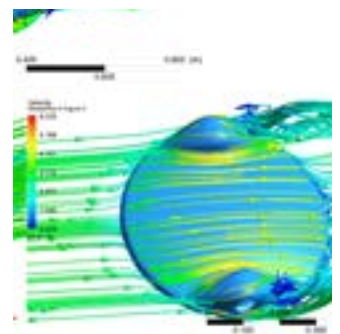
EVOLUTION contributes to an overall optimized hydraulic system for a low consumption of energy.

Key figures are Kv and ζ (zeta) values:

- The Kv-factor of a valve indicates the water flow in m³/h at a pressure drop across the valve of 1 kg/cm² at 5-30°C when the valve is 100% open.
- The head loss coefficient ζ (zeta) or resistance coefficient is a dimensionless measure in fluid mechanics reflecting the resistance in a certain hydraulic element.
- High Kv factors and low zeta values mean reduced pressure losses and smaller pump capacities.

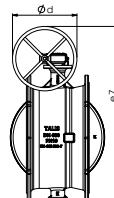
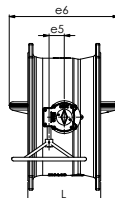
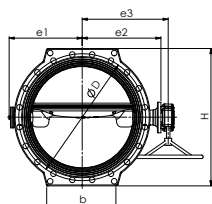
EVOLUTION valves minimize total cost of ownership

DN	PN10		PN16	
	Kv m ³ /h	ζ (zeta)	Kv m ³ /h	ζ (zeta)
200	1,517	0.90	1,412	0.85
250	2,472	0.83	2,108	0.82
300	5,138	0.49	5,291	0.46
350	7,941	0.38	7,465	0.43
400	10,371	0.38	10,238	0.39
450	13,302	0.37	13,302	0.37
500	16,649	0.36	15,639	0.41
600	27,684	0.27	25,509	0.32
700	40,826	0.23	33,778	0.34
800	55,806	0.21	44,118	0.34
900	60,260	0.23	58,068	0.25
1000	74,395	0.23	69,258	0.27
1200	111,503	0.22	105,928	0.24
1400	175,246	0.16	145,814	0.23
1600	217,147	0.18	207,041	0.20
1800	232,271	0.25	241,039	0.23



DIMENSIONS AND WEIGHTS

DOUBLE ECCENTRIC BUTTERFLY VALVE - EVOLUTION WITH HANDWHEEL



DN	PN	Weight	D	d	e1	e2	e3	L	e5	e6	e7	H	b
		kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm

Face-to-face dimension acc. to EN558 series 13

300	16	67	410	300	243	288	322	178	55	280	715	460	150
350	16	88	470	300	272	315	349	190	55	330	771	520	180
400	16	119	525	300	307	359	397	216	69	375	854	580	200
450	16	149	585	300	347	385	423	222	69	430	920	640	275
500	16	197	650	400	373	410	452	229	81	480	1025	715	368
600	16	315	770	400	428	504	555	267	104.5	580	1183	840	400
700	16	408	840	400	497	555	616	292	53	675	1313	910	430
800	16	569	950	500	555	600	661	318	53	780	1466	1030	450

DN 900-1800 still in progress

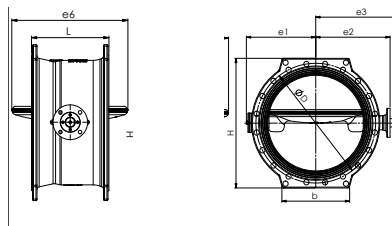
Face-to-face dimension acc. to EN558 series 14

200	10	49	295	tbc	180	190	tbc	230	tbc	195	tbc	340	145
	16	50	295	tbc	180	190	tbc	230	tbc	195	tbc	340	145
250	10	63	350	tbc	210	234	tbc	250	tbc	235	tbc	400	145
	16	64	355	tbc	210	234	tbc	250	tbc	235	tbc	400	145
300	10	61	400	300	235	270	298	270	55	280	683	445	150
	16	67	410	300	243	288	322	270	55	280	715	460	150
350	10	80	460	300	265	310	344	290	55	330	759	505	180
	16	88	470	300	272	315	349	290	55	330	771	520	180
400	10	102	515	300	295	340	374	310	55	375	819	565	200
	16	119	525	300	307	359	397	310	69	375	854	580	200
450	10	149	565	300	347	385	423	330	69	430	920	640	275
	16	149	585	300	347	385	423	330	69	430	920	640	275
500	10	161	620	400	350	410	452	350	69	480	1002	670	368
	16	197	650	400	373	410	452	350	81	480	1025	715	368
600	10	235	725	400	400	455	497	390	81	580	1097	780	400
	16	315	770	400	428	504	555	390	104.5	580	1183	840	400
700	10	352	840	400	480	550	601	430	104.5	675	1281	895	430
	16	408	840	400	497	555	616	430	53	675	1313	910	430
800	10	494	950	500	540	600	661	470	53	780	1451	1022	450
	16	569	950	500	555	600	661	470	53	780	1466	1030	450
900	10	652	1050	500	592	647	708	510	53	880	1550	1115	510
	16	660	1050	600	626	665	730	510	130	880	1656	1125	536
1000	10	893	1160	600	678	717	782	550	130	982	1760	1230	560
	16	1158	1170	600	701	772	850	550	140	982	1851	1255	560
1200	10	1568	1380	600	799	865	943	630	140	1171	2042	1455	655
	16	1771	1390	600	822	930	1027	630	140	1171	2149	1485	655
1400	10	2008	1590	500	920	1025	1122	710	182	1375	2292	1675	755
	16	2337	1590	600	973	1055	1163	710	209	1375	2436	1685	755
1600	10	3125	1820	600	1061	1180	1288	790	209	1569	2649	1915	900
	16	3702	1820	600	1104	1215	1327	790	256	1569	2731	1930	900
1800	10	4617	2020	600	1195	1286	1398	870	256	1776	2893	2115	1013
	16	5209	2020	800	1198	1335	1434	870	246	1776	3032	2130	1013

DIMENSIONS AND WEIGHTS

DOUBLE ECCENTRIC BUTTERFLY VALVE - EVOLUTION

BARE SHAFT AND SQUARE SHAFT PREPARED FOR PNEUMATIC ACTUATOR



DN	PN	Weight	D	e1	e2	e3	L	e6	H	b	For gearbox / electric actuator	For pneumatic actuator
		kg	mm	mm	mm	mm	mm	mm	mm	mm	Round shaft Ø mm	Key Square shaft mm

Face-to-face dimension acc. to EN558 series 13

300	16	62	410	243	288	339	178	178	460	150	28	C8x50	27 x 27
350	16	83	470	272	315	366	290	190	520	180	36	C10x45	27 x 27
400	16	112	525	307	359	410	310	216	580	200	42	C12x60	36 x 36
450	16	142	585	347	385	447	330	222	640	275	42	C12x60	36 x 36
500	16	188	650	373	410	472	350	229	715	368	50	C14x60	36 x 36
600	16	292	770	428	504	582	390	267	840	400	60	C18x80	46 x 46
700	16	380	840	497	555	632	430	292	910	430	72	C20x80	46 x 46
800	16	541	950	555	600	708	470	318	1030	450	80	C22x110	55 x 55

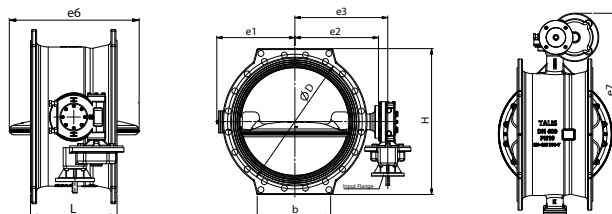
DN 900-1800 still in progress

Face-to-face dimension acc. to EN558 series 14

200	10	38	295	180	190	225	230	195	340	145	22	A6x28	17x17
	16	39	295	180	190	225	230	195	340	145	22	A6x28	17x17
250	10	52	350	210	234	270	250	235	400	145	22	A6x28	17x17
	16	53	355	210	234	270	250	235	400	145	22	A6x28	17x17
300	10	57	400	235	270	307.5	270	280	445	150	28	C8x36	22 x 22
	16	62	410	243	288	339	270	280	460	150	28	C8x50	27 x 27
350	10	75	460	265	310	361	290	330	505	180	28	C8x50	27 x 27
	16	83	470	272	315	366	290	330	520	180	36	C10x45	27 x 27
400	10	97	515	295	340	391	310	375	565	200	36	C10x45	27 x 27
	16	112	525	307	359	410	310	375	580	200	42	C12x60	36 x 36
450	10	142	565	347	385	447	330	430	640	275	42	C12x60	36 x 36
	16	142	585	347	385	447	330	430	640	275	42	C12x60	36 x 36
500	10	154	620	350	410	471	350	480	670	368	42	C12x60	36 x 36
	16	188	650	373	410	472	350	480	715	368	50	C14x60	36 x 36
600	10	226	725	400	455	517	390	580	780	400	50	C14x60	36 x 36
	16	292	770	428	504	582	390	580	840	400	60	C18x80	46 x 46
700	10	329	840	480	550	627	430	675	895	430	60	C18x80	46 x 46
	16	380	840	497	555	632	430	675	910	430	72	C20x80	46 x 46
800	10	466	950	540	600	677	470	780	1022	450	72	C20x80	46 x 46
	16	541	950	555	600	708	470	780	1030	450	80	C22x110	55 x 55
900	10	628	1050	592	647	756	510	880	1115	510	80	C22x110	55 x 55
	16	721	1050	626	665	772	510	880	1125	536	80	C22x110	55 x 55
1000	10	861	1160	678	717	827	550	982	1230	560	80	C22x110	55 x 55
	16	1109	1170	701	772	895	550	982	1255	560	100	C28x120	75 x 75
1200	10	1519	1380	799	865	988	630	1171	1455	655	100	C28x120	75 x 75
	16	1708	1390	822	930	1051	630	1171	1485	655	100	C28x120	75 x 75
1400	10	1945	1590	920	1025	1145	710	1375	1675	755	100	C28x120	75 x 75
	16	2202	1590	973	1055	1215	710	1375	1685	755	157	C40x155	-
1600	10	2990	1820	1061	1180	1340	790	1569	1915	900	157	C40x155	-
	16	3482	1820	1104	1215	1382	790	1569	1930	900	157	C40x155	-
1800	10	4397	2020	1195	1286	1453	870	1776	2115	1013	157	C40x155	-
	16	4987	2020	1198	1335	1495	870	1776	2130	1013	157	C40x155	-

DOUBLE ECCENTRIC BUTTERFLY VALVE - EVOLUTION

WITH GEARBOX PREPARED FOR ELECTRIC ACTUATOR

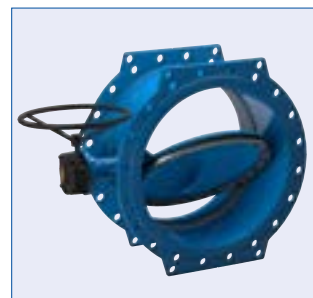


DN	PN	Weight	D	d	e1	e2	e3	L	e6	e7	H	b
		kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Face-to-face dimension acc. to EN558 series 13												
300	16	84	410	200	243	288	337	178	280	680	460	150
350	16	105	470	200	272	315	365	190	330	737	520	180
400	16	134	525	300	307	359	409	216	375	866	580	200
450	16	172	585	300	347	385	435	222	430	932	640	275
500	16	218	650	300	373	410	470	229	480	993	715	368
600	16	345	770	300	428	504	554	267	580	1132	840	400
700	16	433	840	300	497	555	605	292	675	1252	910	430
800	16	620	950	300	555	600	670	318	780	1375	1030	450
DN 900-1800 still in progress												
Face-to-face dimension acc. to EN558 series 14												
200	10	49	295	tbc	180	190	tbc	230	195	tbc	340	145
	16	50	295	tbc	180	190	tbc	230	195	tbc	340	145
250	10	63	350	tbc	210	234	tbc	250	235	tbc	400	145
	16	64	355	tbc	210	234	tbc	250	235	tbc	400	145
300	10	68	400	300	235	270	319	270	280	704	445	150
	16	84	410	200	243	288	337	270	280	680	460	150
350	10	86	460	300	265	310	360	290	330	775	505	180
	16	105	470	200	272	315	365	290	330	737	520	180
400	10	119	515	300	295	340	390	310	375	835	565	200
	16	134	525	300	307	359	409	310	375	866	580	200
450	10	164	565	300	347	385	435	330	430	932	640	275
	16	172	585	300	347	385	435	330	430	932	640	275
500	10	184	620	300	350	410	460	350	480	960	670	368
	16	218	650	300	373	410	470	350	480	993	715	368
600	10	256	725	300	400	455	515	390	580	1065	780	400
	16	345	770	300	428	504	554	390	580	1132	840	400
700	10	382	840	300	480	550	600	430	675	1230	895	430
	16	433	840	300	497	555	605	430	675	1252	910	430
800	10	524	950	300	540	600	669	470	780	1359	1022	450
	16	620	950	300	555	600	670	470	780	1375	1030	450
900	10	655	1050	300	592	647	723	510	880	1465	1115	510
	16	766	1050	300	626	665	745	510	880	1521	1125	536
1000	10	906	1160	300	678	717	797	550	982	1625	1230	560
	16	1165	1170	300	701	772	865	550	982	1716	1255	560
1200	10	1575	1380	300	799	865	958	630	1171	1907	1455	655
	16	1801	1390	600	822	930	1047	630	1171	2169	1485	655
1400	10	2038	1590	600	920	1025	1162	710	1375	2382	1675	755
	16	2337	1590	600	973	1055	1183	710	1375	2456	1685	755
1600	10	3125	1820	600	1061	1180	1308	790	1569	2669	1915	900
	16	3702	1820	1000	1104	1215	1347	790	1569	2951	1930	900
1800	10	4617	2020	1000	1195	1286	1418	870	1776	3113	2115	1013
	16	5209	2020	1000	1198	1335	1454	870	1776	3152	2130	1013

GEARBOX AND ACTUATOR SIZING

OPERATION WITH HANDWHEEL

STANDARD GEARBOX, CLOCKWISE CLOSING, IP67



DN	PN	Torque at shaft Nm	Connection ISO 5211 - Shaft Ø mm	Gearbox size	Ratio:1	Number of turns	Handwheel Ø mm	Max. input torque at gearbox Nm
200	10	190	F10 - 22	242-30S	40	10	300	650
	16	260	F10 - 22	242-30S	40	10	300	650
250	10	300	F10 - 22	242-30S	40	10	300	650
	16	375	F10 - 22	242-30S	40	10	300	650
300	10	610	F10 - 28	242-30S	40	10	300	650
	16	760	F12 - 28	242-40S	40	10	300	1200
350	10	650	F12 - 28	242-30M	40	10	300	650
	16	850	F12 - 36	242-40S	40	10	300	1200
400	10	740	F12 - 36	242-40S	40	10	300	1200
	16	930	F14 - 42	242-40M	40	10	300	1200
450	10	1000	F14 - 42	242-40M	40	10	300	1200
	16	1200	F14 - 42	242-40M	40	10	300	1200
500	10	1420	F14 - 42	242-45M	50	13	400	2000
	16	1780	F14 - 50	242-45M	50	13	400	2000
600	10	1710	F14 - 50	242-45M	50	13	400	2000
	16	2140	F16 - 60	AB1250N	55	14	400	3250
700	10	2770	F16 - 60	AB1250N	55	14	400	3250
	16	3250	F16 - 72	AB2000N	109	27	500	4500
800	10	3520	F16 - 72	AB2000N	109	27	500	4500
	16	4400	F25 - 80	AB2000NLB	109	27	500	4500
900	10	4440	F25 - 80	AB2000NLB	109	27	500	4500
	16	6300	F25 - 80	AB1950N/PR4	217	54	600	7000
1000	10	6600	F25 - 80	AB1950N/PR4	217	54	600	7000
	16	9000	F30 - 100	AB3000NLB/PR4	243	61	600	9000
1200	10	8400	F30 - 100	AB3000NLB/PR4	243	61	600	9000
	16	10200	F30 - 100	AB3000NLB/PR6	348	87	600	11000
1400	10	15000	F30 - 100	AB6800N/PR6	468	117	500	17000
	16	17400	F35 - 157	A200N/PR10	729	182	600	26000
1600	10	18600	F35 - 157	A200N/PR10	729	182	600	26000
	16	21000	F40 - 157	A250N/PR10	729	182	600	32000
1800	10	30000	F40 - 157	A250N/PR10	729	182	600	32000
	16	36000	F48 - 157	HOW8-MPR19	360	90	800	37000

OPERATION WITH HANDWHEEL OR SQUARE CAP

OPTIONAL GEARBOX, ANTI-CLOCKWISE CLOSING AND/OR IP68



DN	PN	Torque at shaft Nm	Connection ISO 5211 - Shaft Ø mm	Gearbox size	Ratio:1	Number of turns	Handwheel Ø mm	Max. input torque at gearbox Nm
200	10	190	F10 - 22	AB215W	37	9	300	500
	16	260	F10 - 22	AB215W	37	9	300	500
250	10	300	F10 - 22	AB215W	37	9	300	500
	16	375	F10 - 22	AB215W	37	9	300	500
300	10	610	F10 - 28	AB550W	34	9	300	1000
	16	760	F12 - 28	AB550W	34	9	300	1000
350	10	650	F12 - 28	AB550W	34	9	300	1000
	16	850	F12 - 36	AB550W	34	9	300	1000
400	10	740	F12 - 36	AB550W	34	9	300	1000
	16	930	F14 - 42	AB880W	38	10	300	2000
450	10	1000	F14 - 42	AB880W	38	10	300	2000
	16	1200	F14 - 42	AB880W	38	10	300	2000
500	10	1420	F14 - 42	AB880W	38	10	300	2000
	16	1780	F14 - 50	AB880W	38	10	400	2000
600	10	1710	F14 - 50	AB880W	55	14	400	3250
	16	2140	F16 - 60	AB1250W	55	14	400	3250
700	10	2770	F16 - 60	AB1250W	55	14	400	3250
	16	3250	F16 - 72	AB2000W	109	27	500	4500
800	10	3520	F16 - 72	AB2000W	109	27	500	4500
	16	4400	F25 - 80	AB2000WLB	109	27	500	4500
900	10	4440	F25 - 80	AB2000WLB	109	27	500	4500
	16	6300	F25 - 80	AB1950W/PR4	217	54	600	7000
1000	10	6600	F25 - 80	AB1950W/PR4	217	54	600	7000
	16	9000	F30 - 100	AB3000WLB/PR4	243	61	600	9000
1200	10	8400	F30 - 100	AB3000WLB/PR4	243	61	600	9000
	16	10200	F30 - 100	AB3000WLB/PR6	348	87	600	11000
1400	10	15000	F30 - 100	AB6800W/PR6	468	117	500	17000
	16	17400	F35 - 157	A200W/PR10	729	182	600	26000
1600	10	18600	F35 - 157	A200W/PR10	729	182	600	26000
	16	21000	F40 - 157	A250W/PR10	729	182	600	32000
1800	10	30000	F40 - 157	A250W/PR10	729	182	600	32000
	16	36000	F48 - 157	HOW8-MPR19	360	90	800	37000

GEARBOX AND ACTUATOR SIZING

GEARBOX PREPARED FOR ELECTRIC ACTUATOR



DN	PN	Torque at shaft Nm	Connection ISO 5211 at valve - Shaft Ø mm	Connection ISO 5210 at gearbox - Shaft Ø mm	Gearbox size (Rotork)	Handwheel Ø mm	Ratio:1	Number of turns	Mechanical Advantage	Torque at gearbox Nm	Max. motorized input torque Nm	Required torque at gearbox Nm
200	10	190	F10 - 22	F10 - 20	IW3	300	48	12	15	1085	72	41
	16	260	F10 - 22	F10 - 20	IW3	300	48	12	15	1085	72	33
250	10	300	F10 - 22	F10 - 20	IW3	300	48	12	15	1085	72	43
	16	375	F10 - 22	F10 - 20	IW3	300	48	12	15	1085	72	37
300	10	610	F10 - 28	F10 - 20	IW3	300	48	12	15	1085	72	32
	16	760	F12 - 28	F10 - 20	IW3	300	48	12	23	2034	88	40
350	10	650	F12 - 28	F10 - 20	IW3	300	48	12	15	1085	72	43
	16	850	F12 - 36	F10 - 20	IW3	300	48	12	23	2034	88	41
400	10	740	F12 - 36	F10 - 20	IW3	300	48	12	23	2034	88	49
	16	930	F14 - 42	F10 - 20	IW4	300	46	12	23	2034	88	41
450	10	1000	F14 - 42	F10 - 20	IW4	300	92	23	23	2034	88	40
	16	1200	F14 - 42	F10 - 20	IW4	300	92	23	23	2034	88	33
500	10	1420	F14 - 42	F10 - 20	IW4	300	92	23	29	2440	84	43
	16	1780	F14 - 50	F10 - 20	IW4	300	92	23	43	2617	61	50
600	10	1710	F14 - 50	F10 - 20	IW4	300	92	23	43	2617	61	43
	16	2140	F16 - 60	F10 - 20	IW5	300	192	48	65	4447	68	50
700	10	2770	F16 - 60	F10 - 20	IW5	300	192	48	65	4447	68	51
	16	3250	F16 - 72	F10 - 20	IW5	300	192	48	65	4447	68	60
800	10	3520	F16 - 72	F10 - 20	IW5	300	192	48	81	5334	66	50
	16	4400	F25 - 80	F10 - 20	IW6	300	304	76	88	9924	113	57
900	10	4440	F25 - 80	F10 - 20	IW6	300	304	76	88	9924	113	37
	16	6300	F25 - 80	F10 - 20	IW6	300	385	96	88	9924	113	60
1000	10	6600	F25 - 80	F10 - 20	IW6	300	385	96	110	9924	90	88
	16	9000	F30 - 100	F10 - 20	IW6	300	456	114	132	9924	75	77
1200	10	8400	F30 - 100	F10 - 20	IW6	300	456	114	189	15253	81	82
	16	10200	F30 - 100	F10 - 20	IW72	600	505	126	142	20000	141	123
1400	10	15000	F30 - 100	F10 - 20	IW72	600	505	126	142	20000	141	176
	16	17400	F35 - 157	F10 - 20	IW8	600	572	143	189	26031	138	229
1600	10	18600	F35 - 157	F10 - 20	IW8	600	572	143	189	26031	138	82
	16	21000	F40 - 157	F14 - 30	IW8	1000	768	192	142	37000	261	123
1800	10	30000	F40 - 157	F14 - 30	IW8	1000	505	126	142	37000	261	176
	16	36000	F48 - 157	F14 - 30	IW82	1000	505	126	142	37000	261	229

OPERATION WITH ELECTRIC ACTUATOR



DN	PN	Rotork actuator size	Rotork speed RPM	Operating time Rotork s	Actuator torque Rotork Nm	Motorized output torque Rotork Nm	Auma actuator size	Auma speed RPM	Operating time Auma s	Actuator torque Auma Nm	Motorized output torque Auma Nm
200	10	CK60	24	30	60	900	SA 07.6	32	23	60	900
	16	CK60	24	30	60	900	SA 07.6	32	23	60	900
250	10	CK60	24	30	60	900	SA 07.6	32	23	60	900
	16	CK60	24	30	60	900	SA 07.6	32	23	60	900
300	10	CK60	24	30	60	900	SA 07.6	32	23	60	900
	16	CK60	24	30	60	1380	SA 07.6	63	11	60	1380
350	10	CK60	24	30	60	900	SA 07.6	32	23	60	900
	16	CK60	24	30	60	1380	SA 07.6	63	11	60	1380
400	10	CK60	24	30	60	1380	SA 07.6	63	11	60	1380
	16	CK60	24	29	60	1380	SA 07.6	63	11	60	1380
450	10	CK60	24	58	60	1380	SA 07.6	63	22	60	1380
	16	CK60	24	58	60	1380	SA 07.6	63	22	60	1380
500	10	CK60	24	58	60	1740	SA 07.6	63	22	60	1740
	16	CK60	24	58	60	2580	SA 07.6	63	22	60	2580
600	10	CK60	24	58	60	2580	SA 07.6	63	22	60	2580
	16	CK60	24	120	60	3900	SA 07.6	90	32	60	3900
700	10	CK60	24	120	60	3900	SA 07.6	90	32	60	3900
	16	CK60	24	120	60	3900	SA 07.6	90	32	60	3900
800	10	CK60	24	120	60	4860	SA 07.6	90	32	60	4860
	16	CK60	24	190	60	5280	SA 07.6	90	51	60	5280
900	10	CK60	24	190	60	5280	SA 07.6	90	51	60	5280
	16	CK60	24	241	60	5280	SA 07.6	90	64	60	5280
1 000	10	CK60	24	241	60	6600	SA 07.6	90	64	60	6600
	16	CK60	24	285	60	7920	SA 07.6	90	76	60	7920
1 200	10	CK60	24	285	60	11340	SA 07.6	90	76	60	11340
	16	CK120	24	316	120	17040	SA 07.6	90	84	60	8520
1 400	10	CK120	24	316	120	17040	SA 10.2	90	84	120	17040
	16	CK120	24	358	120	22680	SA 10.2	90	95	120	22680
1 600	10	CK120	24	358	120	22680	SA 10.2	90	95	120	22680
	16	CK250	24	480	250	35500	SA 14.2	63	183	250	35500
1 800	10	CK250	24	316	250	35500	SA 14.2	63	120	250	35500
	16	CK250	24	316	250	35500	SA 14.2	63	120	250	35500



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