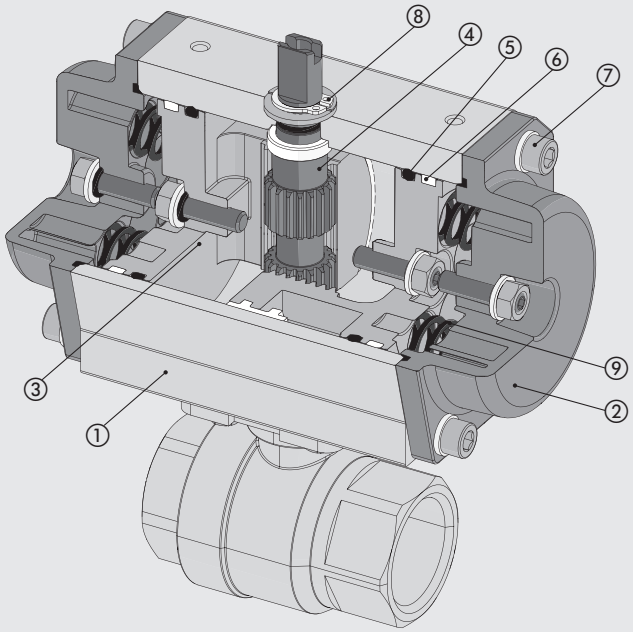
ACTUATED VALVES SERIES RV-FLUID

Actuated valves in the RV-FLUID series consist of a pneumatic rotary actuator that controls a ball or a butterfly valve.
Ball valves come in the 2- and the 3-way version, with nickel-plated brass or stainless steel body.
Butterfly valves are available with a painted cast iron body and nickel-plated cast iron lens. The actuator is the rack-and-pinion type, with an aluminium body processed with thick hard anodization and powder-coated heads.
It is available in the single-acting version or double-acting version, and allows the valve to rotate by 90 degrees with limit switch adjustment on both ends.
Operation is the pinion-and-rack type, a technology characterised by the constant supply of torque during the entire rotation.
The control valve can be applied either directly to the actuator thanks to the NAMUR VDI\VDE-3845 interface or remotely using the threaded connections on the body.
A specific accessory (switch box) can be installed on the actuator to detect the limit switch positions.



COMPONENTS OF THE PNEUMATIC ROTARY ACTUATOR (COMMON TO ALL TYPES OF RV-FLUID VALVES)



① BODY: hard anodized extruded aluminium
② END CAP: pressure die-cast aluminium with polyester powdercoating
③ PISTON: anodized pressure die-cast aluminium
④ SHAFT WITH PINION: nickel-plated carbon steel
⑤ GASKETS: NBR
⑥ SLIDING GUIDES: acetal resin
⑦ SCREWS AND WASHERS: stainless steel
⑧ SEEGER: zinc-plated carbon steel
⑨ SPRINGS (for single-acting versions only): carbon steel with polyester powder coating

ACTUATED BALL VALVES SERIES RV-FLUID

Actuated ball valves are the floating type, available in the 2- and 3-way versions (the latter with an L- or T-shaped ball holes). The body is made of nickel-plated moulded brass or micro-cast stainless steel with PTFE seats.
All valves are available with GAS female threading, while the ones made of stainless steel can also be supplied with a wafer-type flanged connection.



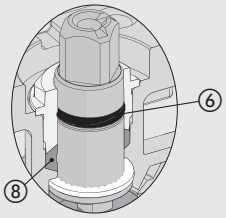
TECHNICAL DATA		BRASS	STAINLESS STEEL
VALVES			
Max operating pressure *	bar	40	63
	MPa	4	6.3
	psi	580	913.5
Fluid temperature	°C	-20 to +130	-25 to +180
Ambient temperature	°C	-20 to +80	
Usable fluids / Materials compatibility		Valves that can be used with neutral or slightly aggressive liquid and gas fluids. (Refer to the tables of chemical compatibility of materials in contact with the fluid on www.metalwork.it or contact Metal Work technical service)	
Nominal diameter (DN)	mm	8 to 80	8 to 80
Mounting position		Any, except that with actuator downwards, which is not recommended	
Note		High- and low-temperature versions on request	
ROTARY ACTUATOR			
Operating pressure	bar	6 to 10	
	MPa	0.6 to 1	
	psi	87 to 145	
Ambient temperature	°C	-20 to +80	
Fluid		Filtered lubricated or unlubricated air. Lubrication, if used, must be continuous	

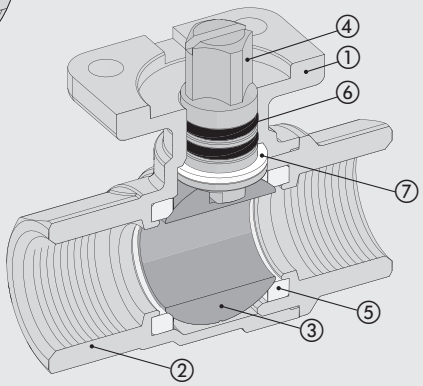
* The maximum working pressure varies with temperature. See the "Max. pressure/temperature chart".

2-WAY AND 3-WAY BRASS ACTUATED BALL VALVES COMPONENTS

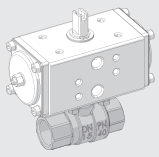
① BODY: nickel-plated brass
② SLEEVE: nickel-plated brass
③ BALL: nickel-plated brass
④ PIN: brass
⑤ BALL SEATS: teflon®
⑥ PIN GASKETS (O-rings): FKM/FPM
⑦ ANTI-FRICTION RING: teflon®
⑧ SEAL: teflon®

Close-up of 2-way 1/4", 3/8" and 3-way versions

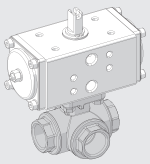




2-WAY



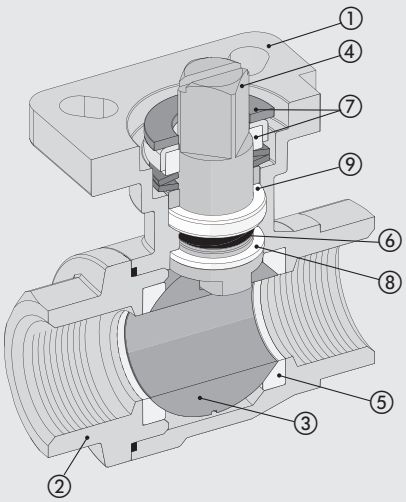
3-WAY



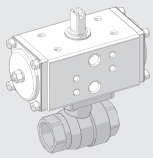
METAL WORK PNEUMATIC

2-WAY AND 3-WAY STAINLESS STEEL ACTUATED BALL VALVES COMPONENTS

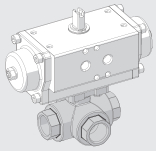
① BODY: AISI 316 stainless steel
② SLEEVE: AISI 316 stainless steel
③ BALL: AISI 316 stainless steel
④ PIN: AISI 316 stainless steel
⑤ BALL SEATS: loaded teflon®
⑥ PIN GASKET (O-ring): FKM/FPM
⑦ NUTS AND WASHERS: AISI 304 stainless steel
⑧ ANTI-FRICTION RING: teflon®
⑨ SEAL: teflon®



2-WAY

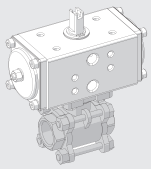


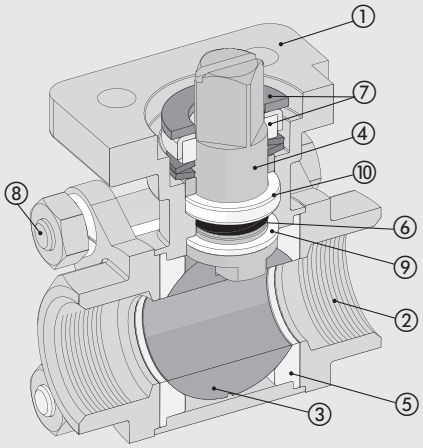
3-WAY



3-PIECE STAINLESS STEEL ACTUATED BALL VALVES COMPONENTS

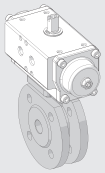
① BODY: AISI 316 stainless steel
② FLANGED SLEEVE: AISI 316 stainless steel
③ BALL: AISI 316 stainless steel
④ PIN: AISI 316 stainless steel
⑤ BALL SEATS: loaded teflon®
⑥ PIN GASKET (O-ring): FKM/FPM
⑦ NUTS AND WASHERS: AISI 304 stainless steel
⑧ TIE ROD: AISI 316 stainless steel
⑨ ANTI-FRICTION RING: teflon®
⑩ SEAL: teflon®

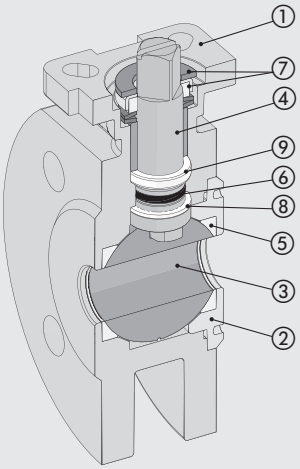




WAFER STAINLESS STEEL ACTUATED BALL VALVES COMPONENTS

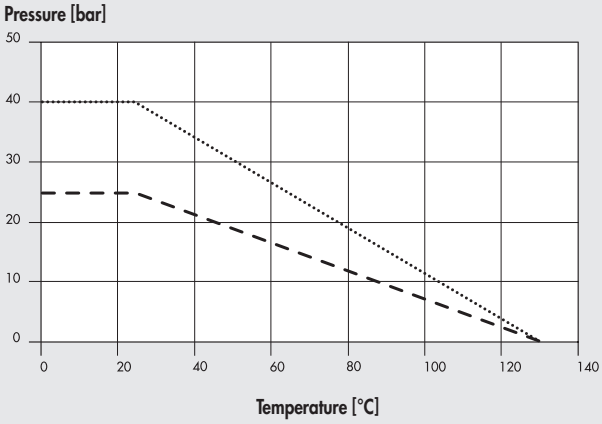
① BODY: AISI 316 stainless steel
② RING: AISI 316 stainless steel
③ BALL: AISI 316 stainless steel
④ PIN: AISI 316 stainless steel
⑤ BALL SEATS: loaded teflon®
⑥ PIN GASKET (O-ring): FKM/FPM
⑦ NUTS AND WASHERS: AISI 304 stainless steel
⑧ ANTI-FRICTION RING: teflon®
⑨ SEAL: teflon®





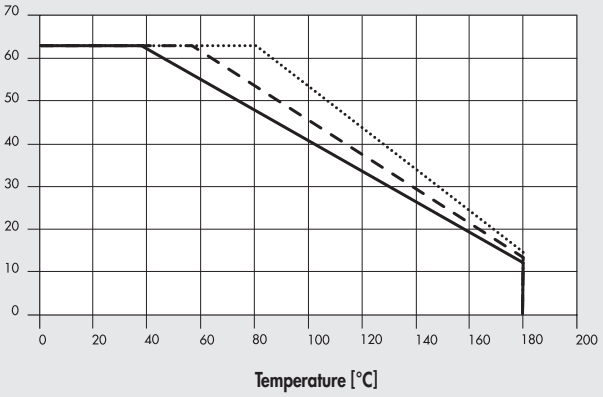
MAX. PRESSURE/TEMPERATURE CHART

2-way and 3-way brass actuated ball valves



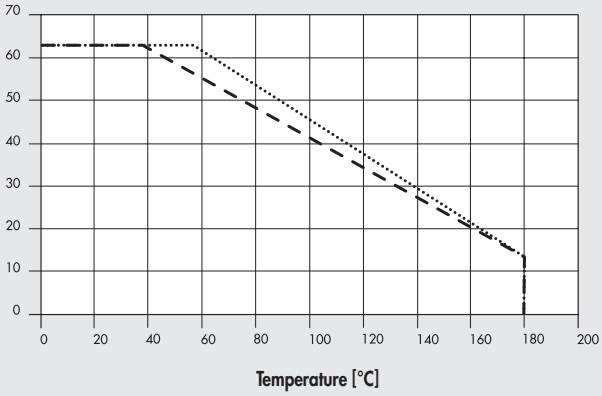
..... 1/4" - 3/8" - 1/2" - 3/4" - 1" - 1 ¼"
– – – – 1 ½" - 2" - 2 ½" - 3"

3-piece 2-way stainless steel actuated ball valves



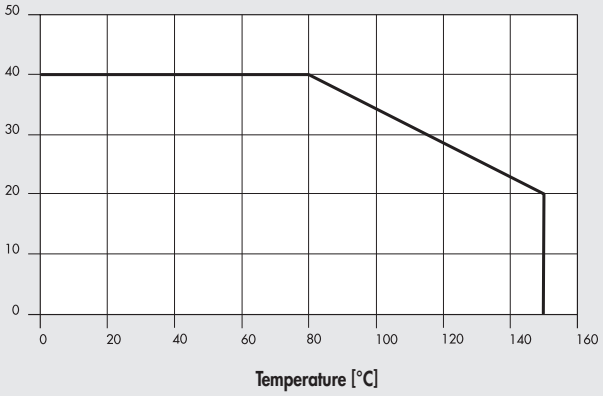
..... 1/4" - 3/8" - 1/2" - 3/4" - 1"
——— 2" - 3"
– – – – 1 ¼" - 1 ½"

3-way stainless steel actuated ball valves



..... 1/4" - 3/8" - 1/2" - 3/4" - 1" - 1 ¼"
– – – – 1 ½" - 2"

WAFER stainless steel actuated ball valves



——— 1/2" - 2"

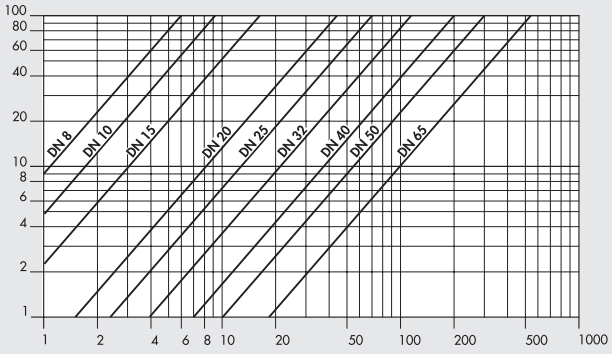
NOTES

METAL WORK PNEUMATIC

LOAD LOSS CHART (reference fluid water at 20°C)

2-way brass actuated ball valves

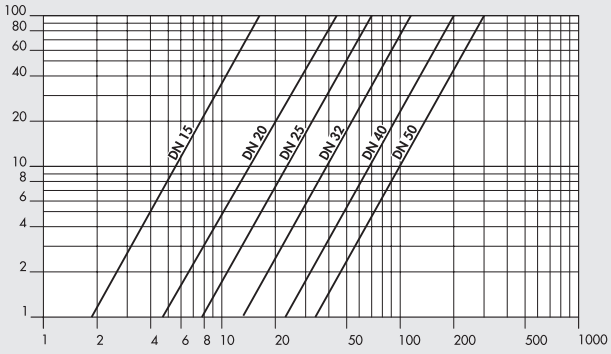
Load loss [ΔP = mbar]



Flow rates [m³/h]

3-way brass actuated ball valves

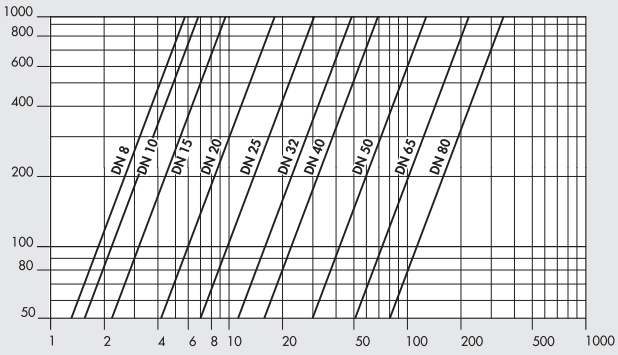
Load loss [ΔP = mbar]



Flow rates [m³/h]

3-piece 2-way stainless steel actuated ball valves

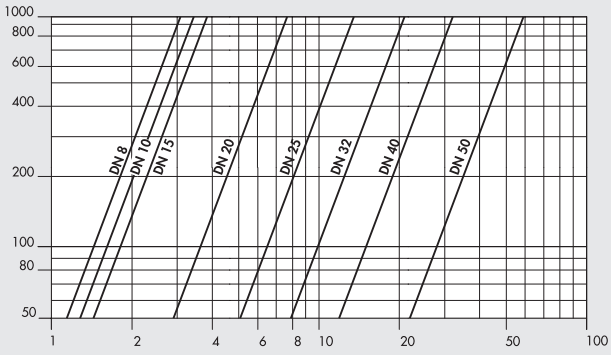
Load loss [ΔP = mbar]



Flow rates [m³/h]

3-way stainless steel actuated ball valves

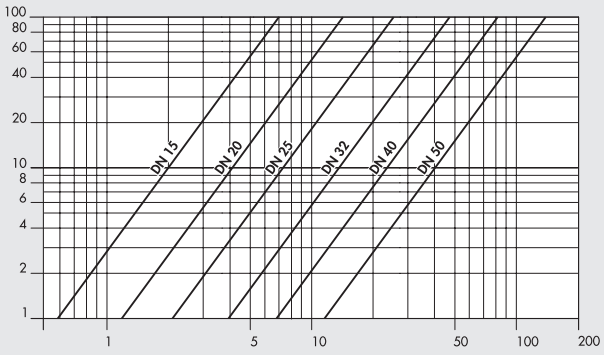
Load loss [ΔP = mbar]



Flow rates [m³/h]

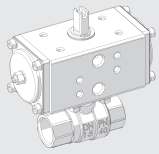
WAFER stainless steel actuated ball valves

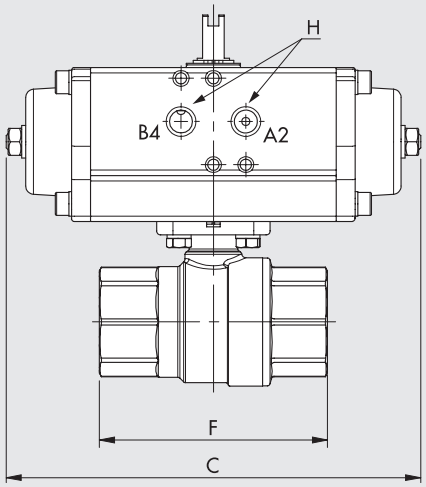
Load loss [ΔP = mbar]

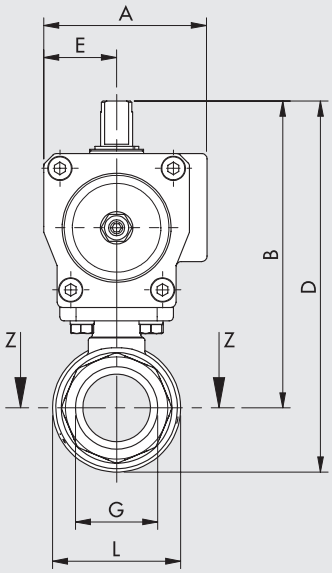


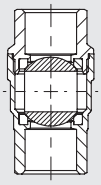
Flow rates [m³/h]

2-WAYS BRASS ACTUATED BALL VALVES









- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.



Single-acting



Double-acting

SINGLE-ACTING

Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300090	10	1/4"	60.5	115	160	130.5	27	75	1/8"	33	5.9	40	42	1342
W0900300091	10	3/8"	60.5	115	160	130.5	27	75	1/8"	33	9.4	40	42	1320
W0900300092	15	1/2"	60.5	106	160	122	27	61	1/8"	32	17	40	42	1147
W0900300093	20	3/4"	75	121	139	140	33.5	69.5	1/8"	39	41	40	50	1515
W0900300094	25	1"	86	141	152	164.5	38	84.5	1/4"	48	70	40	63	2338
W0900300095	32	1 ¼"	86	151	152	181	38	98.5	1/4"	60	121	40	63	2670
W0900300096	40	1 ½"	94	173	205	208	42.5	110	1/4"	70	200	25	75	2959
W0900300097	50	2"	94	184	205	227	42.5	130	1/4"	86	292	25	75	5360
W0900300098	65	2 ½"	104	213	230	266.5	49	161	1/4"	106.5	535	25	85	8436
W0900300099	80	3"	104	225	230	292	49	183	1/4"	134	850	25	85	10750

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

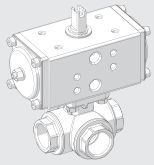
DOUBLE-ACTING

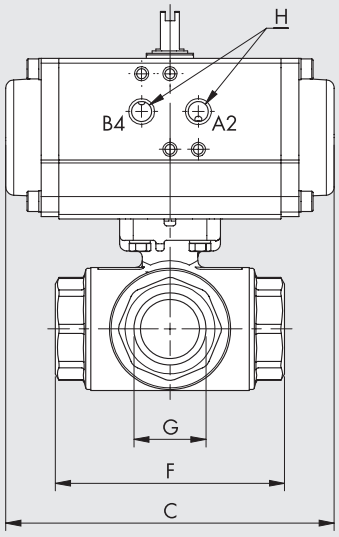
Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300101	10	1/4"	49	103	117	120	23.5	75	1/8"	33	5.9	40	32	832
W0900300102	10	3/8"	49	103	117	120	23.5	75	1/8"	33	9.4	40	32	810
W0900300103	15	1/2"	49	94.5	117	110.5	23.5	61	1/8"	32	17	40	32	637
W0900300104	20	3/4"	49	98	117	117.5	23.5	69.5	1/8"	39	41	40	32	735
W0900300105	25	1"	60.5	113.5	160	137.5	27	84.5	1/8"	48	70	40	42	1408
W0900300106	32	1 ¼"	75	135.5	139	165	33.5	98.5	1/8"	60	121	40	50	1940
W0900300107	40	1 ½"	86	156.5	152	191.5	38	110	1/4"	70	200	25	63	2759
W0900300108	50	2"	86	167.5	152	210.5	38	130	1/4"	86	292	25	63	3590
W0900300109	65	2 ½"	86	186.5	152	239.5	38	161	1/4"	106.5	535	25	63	5206
W0900300110	80	3"	94	214.5	205	281.5	42.5	183	1/4"	134	850	25	63	8820

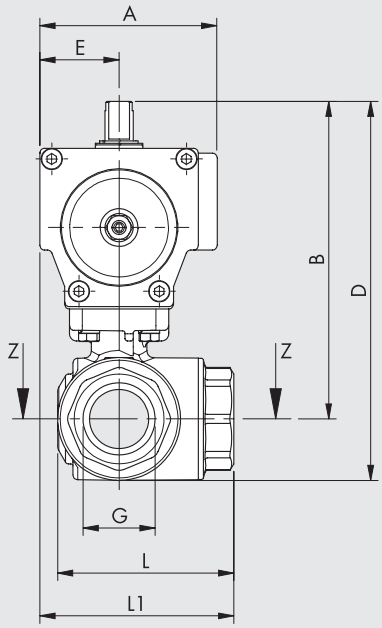
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

METAL WORK PNEUMATIC

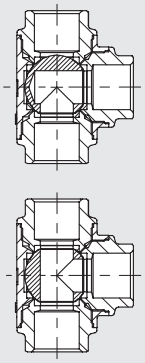
3-WAYS BRASS ACTUATED BALL VALVES







SEZ. Z-Z



- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.



Single-acting Double-acting

SINGLE-ACTING

Code for L-shaped ball hole	Code for T-shaped ball hole	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	L1	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300141	W0900300151	8	1/4"	60.5	114.5	160	131.5	27	64.5	1/8"	49.5	59	5.9	40	42	1625
W0900300142	W0900300152	10	3/8"	60.5	114.5	160	131.5	27	64.5	1/8"	49.5	59.5	9.4	40	42	1597
W0900300143	W0900300153	15	1/2"	75	126	139	143	33.5	64.5	1/8"	49.5	66	17	40	50	1741
W0900300144	W0900300154	20	3/4"	86	146	152	167	38	76	1/4"	59.5	76	41	40	63	2614
W0900300145	W0900300155	25	1"	86	150	152	176	38	97	1/4"	74.5	86.5	70	40	63	3117
W0900300146	W0900300156	32	1 ¼"	94	181	205	217	42.5	118	1/4"	95.5	101.5	121	40	75	6465
W0900300147	W0900300157	40	1 ½"	94	183.5	205	221.5	42.5	135	1/4"	105	110	200	25	75	6737
W0900300148	W0900300158	50	2"	104	204.5	230	247.5	49	157	1/4"	121.5	127.5	292	25	85	9586

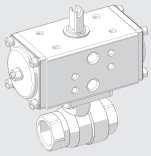
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

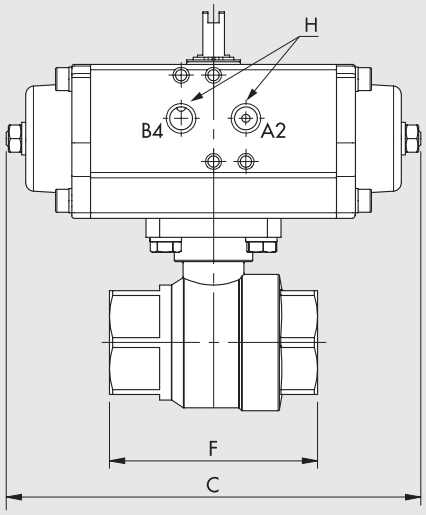
DOUBLE-ACTING

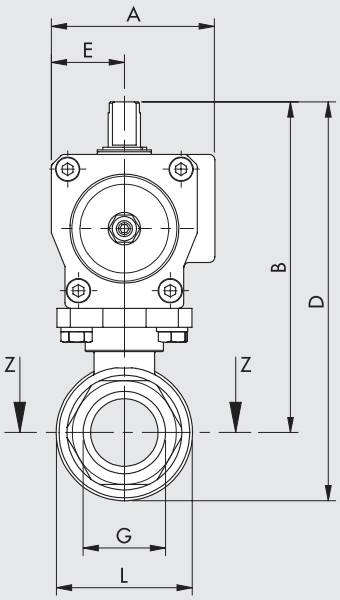
Code for L-shaped ball hole	Code for T-shaped ball hole	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	L1	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300121	W0900300131	8	1/4"	49	103	117	120	23.5	64.5	1/8"	49.5	56	5.9	40	32	1115
W0900300122	W0900300132	10	3/8"	49	103	117	120	23.5	64.5	1/8"	49.5	56	9.4	40	32	1087
W0900300123	W0900300133	15	1/2"	49	103	117	120	23.5	64.5	1/8"	49.5	56	17	40	32	961
W0900300124	W0900300134	20	3/4"	75	130	139	151	33.5	76	1/8"	59.5	71.5	41	40	50	1884
W0900300125	W0900300135	25	1"	75	134.5	139	160	33.5	97	1/8"	74.5	82	70	40	50	2387
W0900300126	W0900300136	32	1 ¼"	75	149	139	185	33.5	118	1/8"	95.5	92.5	121	40	50	4165
W0900300127	W0900300137	40	1 ½"	86	167	152	205	38	135	1/4"	105.5	105.5	200	25	63	4967
W0900300128	W0900300138	50	2"	86	178	152	221	38	157	1/4"	121.5	116.5	292	25	63	6356

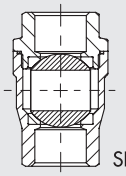
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

2-WAYS STAINLESS STEEL ACTUATED BALL VALVES









- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.



Single-acting



Double-acting

SINGLE-ACTING

Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300009	10	1/4"	60.5	113.5	160	131	27	56	1/8"	35	5.6	63	42	1300
W0900300010	10	3/8"	60.5	113.5	160	131	27	56	1/8"	35	6.8	63	42	1280
W0900300011	15	1/2"	60.5	113.5	160	131	27	57	1/8"	35	9.6	63	42	1300
W0900300012	20	3/4"	75	131	139	152	33.5	64	1/8"	42	17.9	63	50	1690
W0900300013	25	1"	86	149.5	152	175	38	77	1/4"	51	30	63	63	2540
W0900300014	32	1 ¼"	86	157.5	152	189.5	38	90	1/4"	64	49	63	63	2980
W0900300015	40	1 ½"	94	180	205	218	42.5	105	1/4"	76	68	63	75	5310
W0900300016	50	2"	94	190	205	233.5	42.5	125	1/4"	91	126	63	75	6270

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

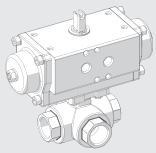
DOUBLE-ACTING

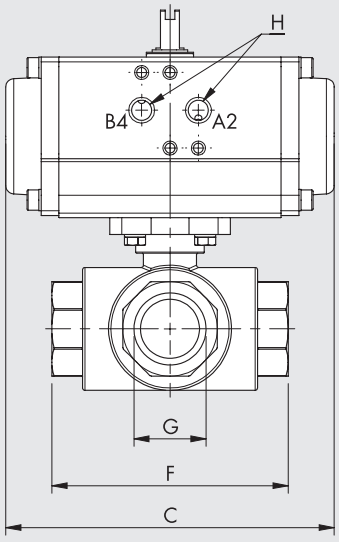
Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300001	10	1/4"	49	102	117	119.5	23.5	56	1/8"	35	5.6	63	32	790
W0900300002	10	3/8"	49	102	117	119.5	23.5	56	1/8"	35	6.8	63	32	770
W0900300003	15	1/2"	49	102	117	119.5	23.5	57	1/8"	35	9.6	63	32	790
W0900300004	20	3/4"	49	108	117	129	23.5	64	1/8"	42	17.9	63	32	910
W0900300005	25	1"	60.5	122.5	160	147.5	27	77	1/8"	51	30	63	42	1610
W0900300006	32	1 ¼"	75	142	139	173.5	33.5	90	1/8"	64	49	63	50	2250
W0900300007	40	1 ½"	86	163.5	152	201.5	38	105	1/4"	76	68	63	63	3540
W0900300008	50	2"	94	188	205	233.5	42.5	125	1/4"	91	126	63	75	5800

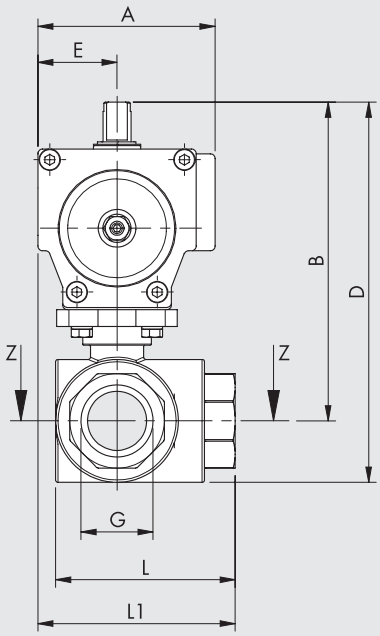
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

METAL WORK PNEUMATIC

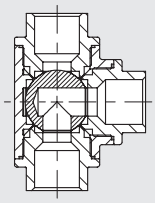
3-WAYS STAINLESS STEEL ACTUATED BALL VALVES



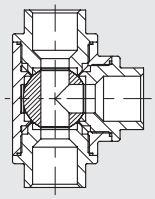




SEZ. Z-Z

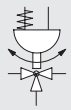


L-shaped ball hole

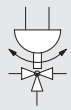


T-shaped ball hole

- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.



Single-acting



Double-acting

SINGLE-ACTING

Code for L-shaped ball hole	Code for T-shaped ball hole	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	L1	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300161	W0900300171	8	1/4"	86	140.5	152	158.5	38	75	1/4"	55.5	75.5	3.2	63	63	2500
W0900300162	W0900300172	10	3/8"	86	140.5	152	158.5	38	75	1/4"	55.5	75.5	3.4	63	63	2470
W0900300163	W0900300173	15	1/2"	86	140.5	152	158.5	38	75	1/4"	55.5	75.5	3.8	63	63	2430
W0900300164	W0900300174	20	3/4"	86	144.5	152	165.5	38	85	1/4"	63.5	80.5	7.7	63	63	2740
W0900300165	W0900300175	25	1"	94	167	205	193	42.5	100	1/4"	76	92.5	13.7	63	75	4760
W0900300166	W0900300176	32	1 ¼"	94	176	205	210	42.5	122	1/4"	95	103.5	20.5	63	75	6280
W0900300167	W0900300177	40	1 ½"	120	204.5	275	243.5	55	131	1/4"	104.5	120.5	31.5	63	100	10480
W0900300168	W0900300178	50	2"	134	243.5	309	293	63.5	158	1/4"	129	142.5	58	63	115	16610

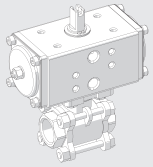
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

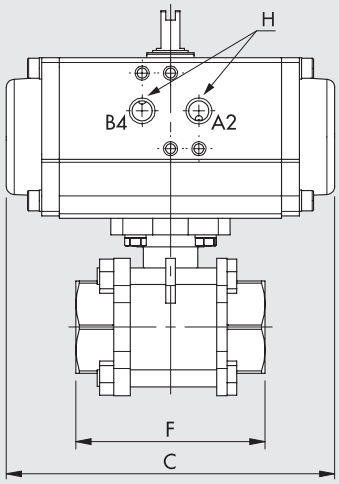
DOUBLE-ACTING

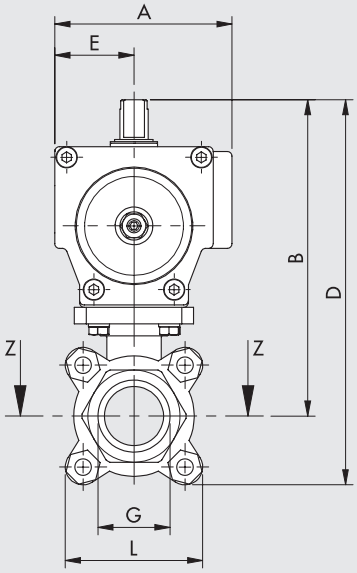
Code for L-shaped ball hole	Code for T-shaped ball hole	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	L1	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300080	W0900300112	8	1/4"	60.5	113.5	160	131.5	27	75	1/8"	55.5	64.5	3.2	63	42	1570
W0900300081	W0900300113	10	3/8"	60.5	113.5	160	131.5	27	75	1/8"	55.5	64.5	3.4	63	42	1540
W0900300082	W0900300114	15	1/2"	60.5	113.5	160	131.5	27	75	1/8"	55.5	64.5	3.8	63	42	1500
W0900300083	W0900300115	20	3/4"	60.5	117.5	160	138.5	27	85	1/8"	63.5	69.5	7.7	63	42	1810
W0900300084	W0900300116	25	1"	75	135	139	161	33.5	100	1/8"	76	83.5	13.7	63	50	2460
W0900300085	W0900300117	32	1 ¼"	86	159.5	152	193.5	38	122	1/4"	95	99	20.5	63	63	4510
W0900300086	W0900300118	40	1 ½"	94	180	205	219	42.5	131	1/4"	104.5	108	31.5	63	75	6560
W0900300087	W0900300119	50	2"	94	191	205	240.5	42.5	158	1/4"	129	121.5	58	63	75	9210

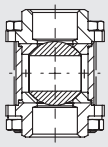
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

3-PIECE STAINLESS STEEL ACTUATED BALL VALVES









SEZ. Z-Z

- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.



Single-acting



Double-acting

SINGLE-ACTING

Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300201	10	1/4"	75	121	139	141	33.5	48	1/8"	40	5.6	63	50	1610
W0900300202	10	3/8"	75	121	139	141	33.5	48	1/8"	40	6.8	63	50	1600
W0900300203	15	1/2"	75	125	139	146	33.5	54	1/8"	42	9.6	63	50	1650
W0900300204	20	3/4"	86	145.5	152	171.5	38	73	1/4"	52	17.9	63	63	2660
W0900300205	25	1"	94	166	205	195	42.5	80	1/4"	58	30	63	75	4590
W0900300206	32	1 ¼"	94	174	205	210	42.5	90	1/4"	72	49	63	75	5250
W0900300207	40	1 ½"	94	180	205	220.5	42.5	102	1/4"	81	68	63	75	6150
W0900300208	50	2"	104	198.5	230	244.5	49	118	1/4"	92	126	63	85	8390
W0900300209	65	2 ½"	120	244.5	275	312.5	55	151	1/4"	154	226	63	100	14020
W0900300210	80	3"	163	318	392	398.5	80	182	1/4"	182	355	63	145	22400

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

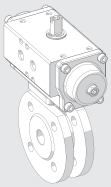
DOUBLE-ACTING

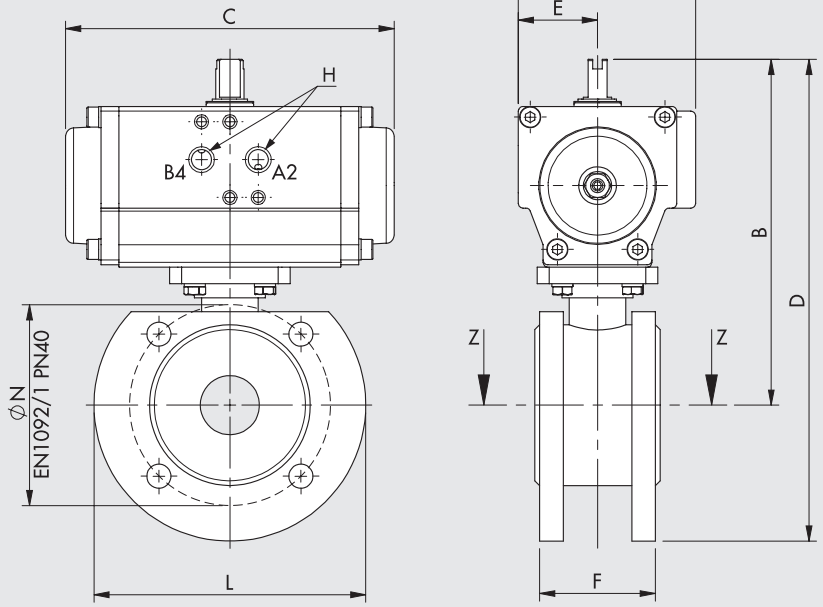
Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300181	10	1/4"	49	98	117	118	23.5	48	1/8"	40	5.6	63	32	830
W0900300182	10	3/8"	49	98	117	118	23.5	48	1/8"	40	6.8	63	32	820
W0900300183	15	1/2"	49	102	117	123	23.5	54	1/8"	42	9.6	63	32	870
W0900300184	20	3/4"	60.5	118.5	160	144.5	27	73	1/8"	52	17.9	63	42	1730
W0900300185	25	1"	75	134	139	163	33.5	80	1/8"	58	30	63	50	2290
W0900300186	32	1 ¼"	86	157.5	152	193.5	38	90	1/4"	72	49	63	63	3480
W0900300187	40	1 ½"	86	163.5	152	204	38	102	1/4"	81	68	63	63	4380
W0900300188	50	2"	94	188	205	234	42.5	118	1/4"	92	126	63	75	6460
W0900300189	65	2 ½"	94	220	205	288	42.5	151	1/4"	154	226	63	75	10100
W0900300190	80	3"	120	257.5	275	338	55	182	1/4"	182	355	63	100	17900

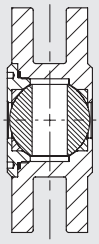
* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

METAL WORK PNEUMATIC

WAFER STAINLESS STEEL ACTUATED BALL VALVES

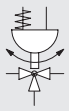




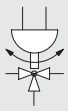


SEZ. Z-Z

- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.



Single-acting



Double-acting

SINGLE-ACTING

Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300031	15	1/2"	86	159	152	206.5	38	43	1/4"	95	22.3	40	63	2910
W0900300032	20	3/4"	86	164	152	216.5	38	43	1/4"	105	47.7	40	63	3280
W0900300033	25	1"	94	178.5	205	236	42.5	51	1/4"	115	83.5	40	75	5300
W0900300034	32	1 ¼"	94	190.5	205	260.5	42.5	51	1/4"	140	150.4	40	75	6470
W0900300035	40	1 ½"	94	196.5	205	271.5	42.5	65	1/4"	150	255	40	75	7570
W0900300036	50	2"	104	215	230	297.5	49	65	1/4"	165	435	40	85	10200

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

DOUBLE-ACTING

Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300021	15	1/2"	60.5	132	160	179	27	43	1/8"	95	22.3	40	42	1980
W0900300022	20	3/4"	60.5	137	160	189	27	43	1/8"	105	47.7	40	42	2350
W0900300023	25	1"	75	146.5	139	204	33.5	51	1/8"	115	83.5	40	50	3000
W0900300024	32	1 ¼"	86	174	152	244	38	51	1/4"	140	150.4	40	63	4700
W0900300025	40	1 ½"	86	180	152	255	38	65	1/4"	150	255	40	63	5800
W0900300026	50	2"	86	188	152	270.5	38	65	1/4"	165	435	40	63	6970

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

ACTUATED BUTTERFLY VALVES SERIES RV-FLUID

Actuated throttle valves with a Wafer-type connection and centred disc are mainly used to choke and regulate large flow rates. The body is made of painted cast iron, nickel-plated cast iron lens with EPDM seals. A position indicator can be applied to the actuator using special position-sensing switch-boxes.



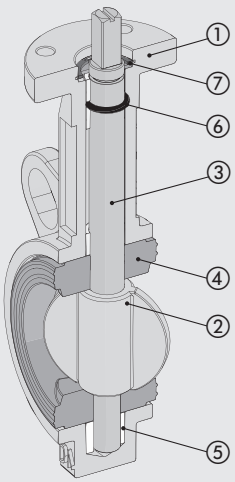
TECHNICAL DATA

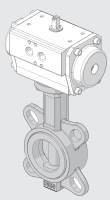
VALVES		
Max operating pressure *	bar	16
	MPa	1.6
	psi	232
Fluid temperature	°C	-10 to +120
Ambient temperature	°C	-20 to +80
Usable fluids / Materials compatibility		Valves that can be used with neutral or slightly aggressive liquid and gas fluids. (Refer to the tables of chemical compatibility of materials in contact with the fluid on www.metalwork.it or contact Metal Work technical service)
Nominal diameter (DN)	mm	50 to 200
Mounting position		Any, except that with actuator downwards, which is not recommended
Note		High- and low-temperature versions on request
ROTARY ACTUATOR		
Operating pressure	bar	16
	MPa	1.6
	psi	232
Ambient temperature	°C	-20 to +80
Fluid		Filtered lubricated or unlubricated air. Lubrication, if used, must be continuous

* The maximum working pressure varies with temperature. See the "Max. pressure/temperature chart".

COMPONENTS

① BODY: lamellar cast iron coated with epoxy-resin enamel
② DISK: nickel-plated spheroidal cast iron
③ ROD: AISI 420 stainless steel
④ SLEEVE: EPDM
⑤ ROD GUIDE BUSHING: teflon®
⑥ ROD SEALS: FKM/FPM
⑦ SEEGER: zinc-plated carbon steel

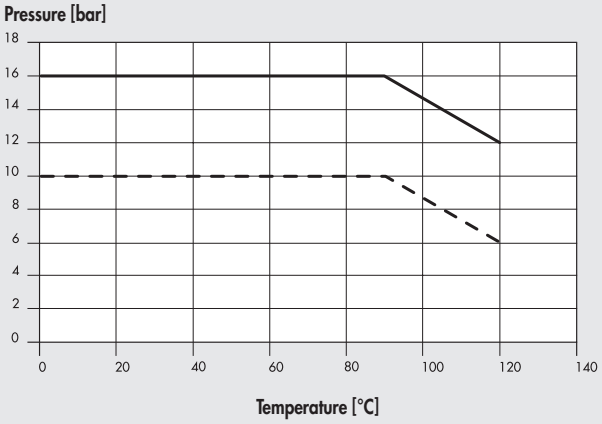




METAL WORK PNEUMATIC

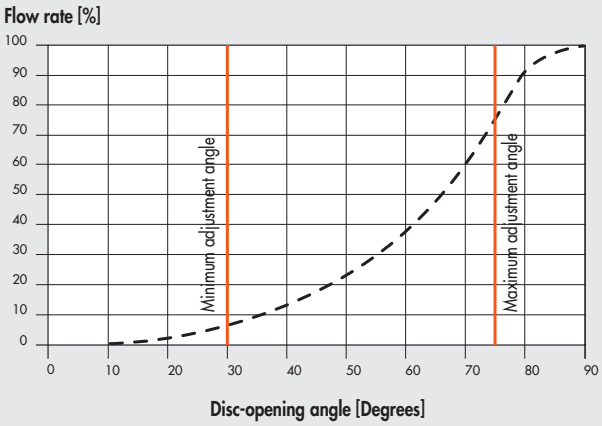
MAX. PRESSURE/TEMPERATURE CHART

Actuated Butterfly valves



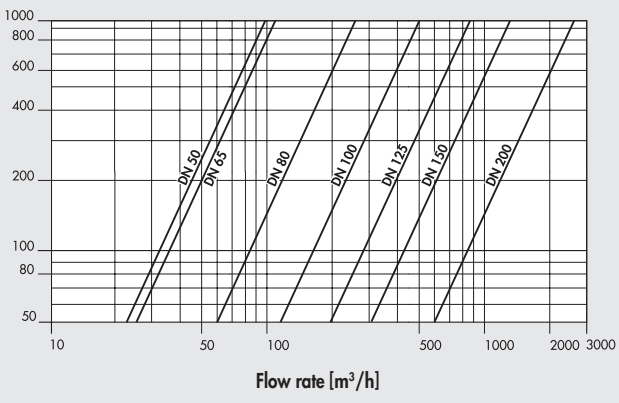
FLOW RATE TO THE DISC-OPENING ANGLE CHART

Actuated Butterfly valves

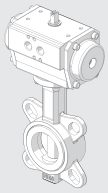


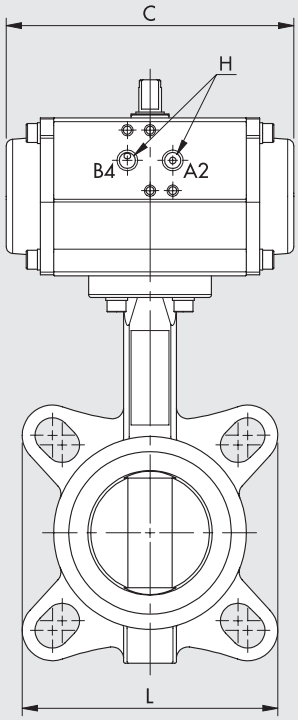
LOAD LOSS CHART (reference fluid water at 20°C)

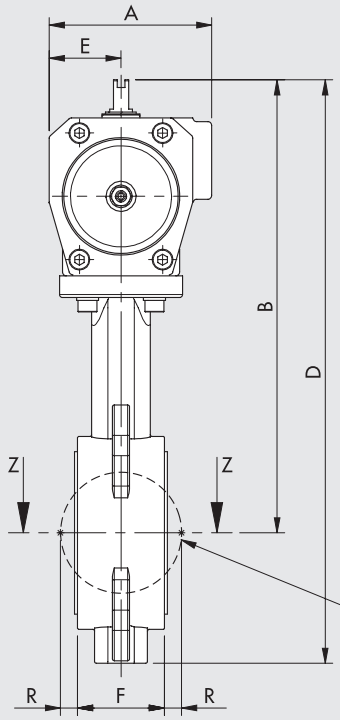
Actuated Butterfly valves

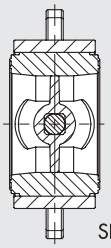


ACTUATED BUTTERFLY VALVES









- Position of the ball with "B4" port powered actuator for double-acting versions.
- Position of the ball with actuator at rest for single-acting versions.


Single-acting


Double-acting

SINGLE-ACTING

Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	R	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300051	50	2"	94	246	205	308	42.5	43	1/4"	121	5	99	16	75	5470
W0900300052	65	2 ½"	94	256	205	325	42.5	46	1/4"	135	9	108	16	75	5770
W0900300053	80	3"	104	280	230	370	49	46	1/4"	146	17	261	16	85	8030
W0900300054	100	4"	120	314.5	275	422.5	55	52	1/4"	108	26	518	16	100	11120
W0900300055	125	5"	134	352.5	309	471.5	63.5	56	1/4"	119	34	883	16	115	16600
W0900300056	150	6"	134	372.5	309	504	63.5	56	1/4"	131	50	1364	16	115	18100
W0900300057	200	8"	163	435	392	601	80	60	1/4"	156	71	2716	16	145	34000

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

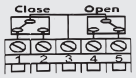
DOUBLE-ACTING

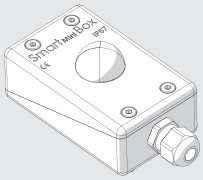
Code	DN (nominal diameter)	G	A	B	C	D	E	F	H	L	R	Kv factor [m³/h]	Max pressure * [bar]	Rotary actuator bore	Weight [g]
W0900300041	50	2"	86	229.5	152	291.5	38	43	1/4"	121	5	99	16	63	3700
W0900300042	65	2 ½"	86	239.5	152	308.5	38	46	1/4"	135	9	108	16	63	4000
W0900300043	80	3"	86	253.5	152	343.5	38	46	1/4"	146	17	261	16	63	4800
W0900300044	100	4"	94	290	205	397.5	42.5	52	1/4"	108	26	518	16	75	7200
W0900300045	125	5"	94	300	205	419	42.5	56	1/4"	119	34	883	16	75	9200
W0900300046	150	6"	104	330	230	461.5	49	56	1/4"	131	50	1364	16	85	12000
W0900300047	200	8"	134	402.5	309	568.5	80	60	1/4"	156	71	2716	16	115	24200

* The maximum operating pressure varies with the temperature. See the "Max. pressure/temperature chart".

ACCESSORIES ACTUATED VALVES SERIES RV-FLUID

SWITCH BOX WITH ELECTROMECHANICAL MICROSWITCHES FOR ACTUATOR

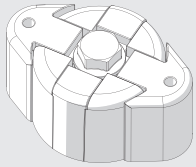




Voltage: max 125/250V AC
Current: min 30mA
max 2.5A
Temperature: -25°C to +125°C
Charge: IP67

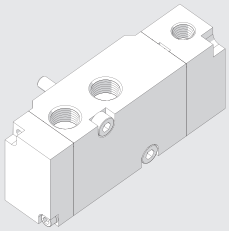
Code	Description	Weight [g]
W0900300915	Switch box with electromechanical microswitches for actuator size 32	196
W0900300916	Switch box with electromechanical microswitches for actuator size 42 - 63	152
W0900300917	Switch box with electromechanical microswitches for actuator size 115 - 145	384
W0900300919	Switch box with electromechanical microswitches for actuator size da 75 - 100	384

POSITION INDICATOR FOR ACTUATOR



Code	Description	Weight [g]
W0900300930	Position indicator for actuator size 32 - 63	16
W0900300931	Position indicator for actuator size 75 - 100	22
W0900300933	Position indicator for actuator size 32 - 100 (only without switch box)	52
W0900300932	Position indicator for actuator size 115 - 145	26

CONTROL VALVES WITH NAMUR INTERFACE



Refer to page **B1**.47

NOTES