ReValve automatic metal butterfly valve

Belven + NedValve

The ReValve metal butterfly valves are sturdy open/closed valves for various water processing and industrial applications. The butterfly valves have an epoxy-coated cast iron housing and stainless steel shaft with butterfly. The butterfly valves have a low torque. The valves can therefore be easily operated with a compact NedValve motor.

The ReValve metal butterfly valves are supplied as standard with a fitted PVC flange set. The metal housing has oval flange holes to match various standard flange dimensions.

APPLICATIONS

The ReValve is predominantly used in automated systems: High-capacity irrigation systems, ebb and flood systems, drip irrigation systems. The valves can also be remotely controlled in combination with a ROM electric or REV pneumatic drive. Suitable for pressure or suction lines.

CHARACTERISTICS

- Robust 16 bar steel butterfly valve
- Relatively narrow stainless steel butterfly for a higher Kv-value
- Low torque
- Operation pneumatic (REV Series) or electric (NedValve series)

DRIVE

The ReValve metal butterfly valves with ISO-top are designed with pneumatic or electric drive, with or without extended shaft. The automatic butterfly valves are all equipped with a manual override so that they can be manually actuated at any time.

CHARACTERISTICS OF ELECTRIC ACTUATOR

- NedValve Basic (STB / QB / QS / CS) modellen
- 24 VAC and VDC drive
- Running times 1 to 25 sec (depending on type)
- incl. 2 extra limit switches / anti-condensation heater element / thermostat / position indicator / manual actuation

CHARACTERISTICS OF PNEUMATIC ACTUATOR (COMPRESSED AIR)

- Double-acting actuator
- Double stroke setting (start and end)
- Control by Namur 5/2-way valve with plastic dampers, 6 mm air connection
- Running time adjustable with plastic throttle valve
- Control pressure 6 bar compressed air (conditioned)
- Optional as single-acting version (with spring return) / electric limit switch (see information sheet 'Pneumatic drive REV Series')

TECHNICAL DATA

Diameter	: 63 to 500 mm / DN50 to DN500 / 2" to 20"
Maximum temperature	: 0 - 60°C (with decreasing maximum working pressure)
Pressure class	: PN16 (up to 20°C)
Material	: GG25 epoxy-coated cast iron (housing)
	: EPDM (seal)
Damper blade and shaft	: Stainless steel 316 (Ø 63 to 200 mm); stainless steel 304 / 316 / 416 (Ø 250 to 400 mm)
Operator connection	: ISO 5211 (flange for direct installation / ISO-top)

NedValve actuator selection table*

Model	Diameter (mm)	Standard speed (sec)	Length cable (meter)	Application
STB	63 - 200	10 / 25	0,5 / wirebox	standard applications
QB20	63 - 75	1	7,0	fast selection
QS	63	1 - 5	7,0	valve set selection
QB	75 - 160	5	wirebox	valve set selection

* Other configurations (i.e. CS for flow management on request)

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Dimensions and Kv-values

DN	Flange		A	B	C	G	D	F/F	H/H	Torque*	Kv-value 90°
	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Nm)	(m3/h)
50	63	2"	22	142,7	71,4	11	30	43	11	18	99
65	75	2,5"	22	155,4	77,8	11	45	46	11	20	169
80	90	3"	22	161,8	89	11	64	46	11	28	260
100	110	4"	22	178	102	14	90	52	14	49	516
125	125	5"	22	190,5	123	14	110	56	14	76	879
150	160	6"	22	205,2	138	14	146	56	14	123	1358
200	200	8"	34,5	237	168	17	194	60	17	225	2697
250	250	10"	34,5	268,3	203	22	242	68	22	372	4618
300	315	12"	34,5	308,5	243,5	22	292	78	22	558	7135
400	400	16”	50	400	309	27	389,6	86,5	27	-	14174

*Recommended torque for tightening nuts/bolts

Technical drawing