

**Climate
Control**

IMI TA

BR12WT



Standard control valves
Butterfly valves, DN 25-200

BR12WT

For HVAC systems, sanitary and industrial plants for control or shut-off of water for open and closed circuits.

Key features

Easy mounting by eyelets

Rotation direction indication

Centralised flap

Flap and tight EPDM sealing for wide medium range

Manual operation with lever



Technical description

Application:

Chilled-, hot- and industrial water, water with antifreeze and anticorrosive compounds (approx. 50%): glycol, glycerine, ethylene glycol, propylene glycol, mono ethylene, ethanol, methyl alcohol, antifrogen® N+L.

Function:

Control
Shut-off

Dimensions:

DN 25-200

Pressure class:

PN 6 - PN 16

Temperature:

Max. working temperature: 110°C
Min. working temperature: -10°C
For lower and higher temperatures please contact IMI.

Leakage rate:

EN 1349 – seat-leakage VI G1 (tight sealing).

Material:

Body: Cast iron GG25
Seat ring: EPDM
Flap:
DN 25-40: Stainless steel 1.4408
DN 50-200: Ductile iron GGG-40
EN-JS1030 with Nylon11 coating
Shaft: CrNi-steel 1.4405
Shaft sealing: EPDM

Surface treatment:

Red polyester powder coating.

Marking:

DN and PN.

Flow direction:

Both directions.

Connection type:

Wafer type

Face to face:

According to EN 558-1 basic series 20.

Connection to actuator:

DN 25-150: F05/F07 according to EN ISO 5211.
DN 200: F07/F10 according to EN ISO 5211.

Valve variants:

- Technical silicon free version
- IP65 version

Technical data

Kvs values – Butterfly valve

DN	25	32	40	50	65	80	100	125	150	200
Kvs	52	72	126	124	243	397	723	1083	1591	2852

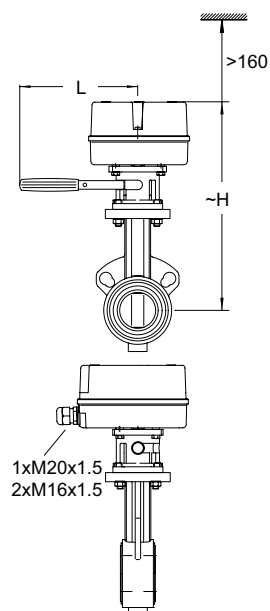
Butterfly valve with quarter-turn actuator

	DN	25	32	40	50	65	80	100	125	150	200
BR12WT+M130	Actuating time/90° ¹⁾ s	130	130	130	130	130	130	-	-	-	-
	ΔpV_{close} kPa	1000	1000	1000	1200	1200	1200	-	-	-	-
BR12WT+M140	Actuating time/90° ¹⁾ s	10	10	10	10	10	10	10	-	-	-
	ΔpV_{close} kPa	1000	1000	1000	1200	1200	1200	350	-	-	-
BR12WT+M180	Actuating time/90° ¹⁾ s	-	-	-	-	-	-	-	130	130	130
	ΔpV_{close} kPa	-	-	-	-	-	-	-	350	350	350

1) At 60 Hz the actuating time is reduced by ~15%.

ΔpV_{close} = The maximum pressure drop that the valve can close against from an opened position, with a specified torque (actuator) without exceeding stated leakage rate.

M130



M130

DN	H	L	Kg*
25	246	165	1,2
32	261	165	1,2
40	261	165	1,2
50	303	165	1,2
65	315	165	1,2
80	322	165	1,2

*) Actuator

Technical description

		M130/230	M130/24
Actuating time at 50 Hz/90° ¹⁾	s	130	
Nominal torque	Nm	35	
Power supply	VAC	230 +6% -10%	24 +6% -10%
Frequency ¹⁾	Hz	50/60 ±5%	
Power consumption	VA	6,5	
Input signal		3-point	

1) At 60 Hz the actuating time is reduced by ~15%.

Ingress protection:
IP54

Ambient temperature:
0 - 50°C

Operation mode:
S1-100% ED c/h 1200 EN 60034-1.

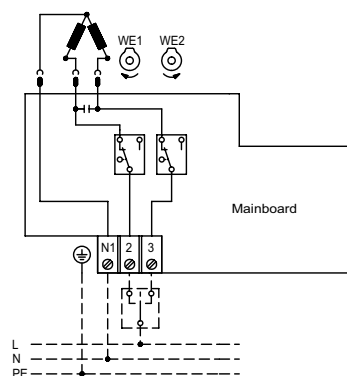
End position switch-off:
Position dependent adjustable

Actuator variants:

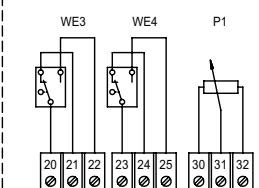
- Position switch unit:
2 switches (WE3/WE4), potential free, infinitely adjustable.
Rated load: max. 10 A / 250 VAC
- Potentiometer with attachment: 0.2 / 1 / 10 kΩ (1.5 VA)

See "Accessories"

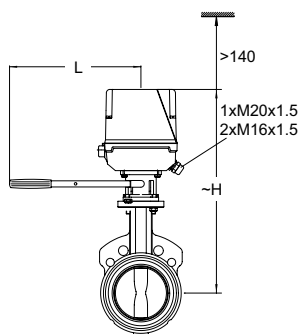
Wiring diagram: Standard design



Special accessories



M140



M140

DN	H	L	Kg*
25	318	165	3
32	333	165	3
40	333	165	3
50	375	165	3
65	387	165	3
80	394	165	3
100	413	165	3

*) Actuator

Technical description

		M140/230	M140/24
Actuating time at 50 Hz/90° ¹⁾	s	10	
Nominal torque	Nm	50	
Power supply	VAC	230 +6% -10%	24 +6% -10%
Frequency ¹⁾	Hz	50/60 ±5%	
Power consumption	VA	55	
Input signal		3-point	

1) At 60 Hz the actuating time is reduced by ~15%.

Ingress protection:
IP54

Ambient temperature:
0 - 50°C

Operation mode:
S3-50% ED c/h 1200 EN 60034-1.

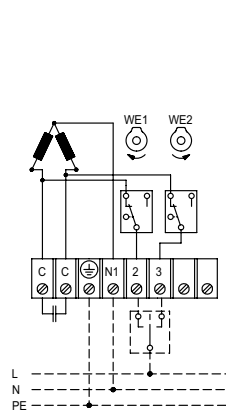
End position switch-off:
Position dependent adjustable

Actuator variants:

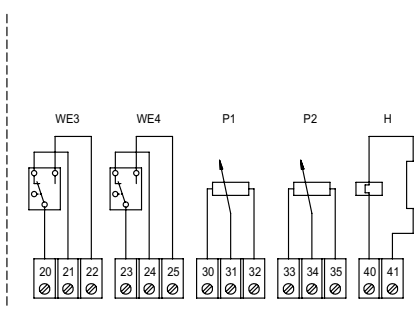
- Position switch unit:
2 switches (WE3/WE4), potential free, infinitely adjustable.
Rated load: max. 10 A / 250 VAC
- Potentiometer with attachment: 0.2 / 1 / 10 kΩ (1.5 VA)
- Enclosure protection: IP 65
- Heater:
-20 - +50°C: 25 VA
24, 115, 230 VAC: 50/60 Hz

See "Accessories"

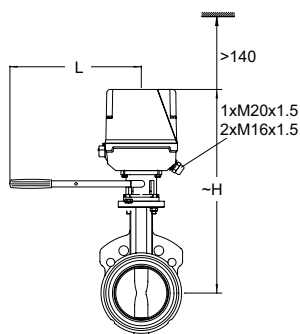
Wiring diagram: Standard design



Special accessories



M180



M180

DN	H	L	Kg*
125	425	255	3
150	438	255	3
200	476	255	3

*) Actuator

Technical description

		M180/230	M180/24
Actuating time at 50 Hz/90° ¹⁾	s	130	
Nominal torque	Nm	80	
Power supply	VAC	230 +6% -10%	24 +6% -10%
Frequency ¹⁾	Hz	50/60 ±5%	
Power consumption	VA	26	
Input signal		3-point	

1) At 60 Hz the actuating time is reduced by ~15%.

Ingress protection:
IP54

Ambient temperature:
0 - 50°C

Operation mode:
S3-60% ED c/h 1200 EN 60034-1.

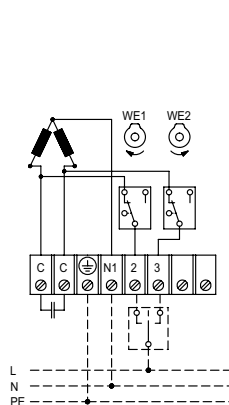
End position switch-off:
Position dependent adjustable

Actuator variants:

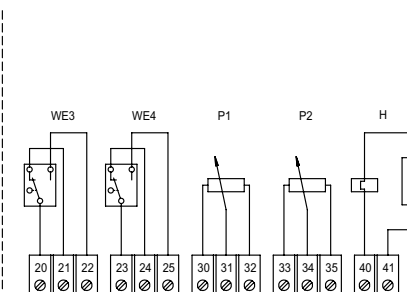
- Position switch unit:
2 switches (WE3/WE4), potential free, infinitely adjustable.
Rated load: max. 10 A / 250 VAC
- Potentiometer with attachment: 0.2 / 1 / 10 kΩ (1.5 VA)
- Enclosure protection: IP 65
- Heater:
-20 - +50°C: 25 VA
24, 115, 230 VAC: 50/60 Hz

See "Accessories"

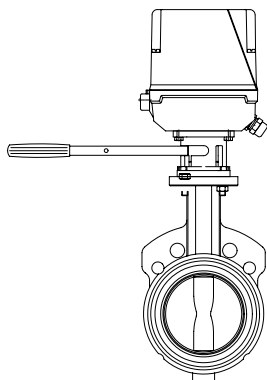
Wiring diagram: Standard design



Special accessories



Articles



BR12WT – Sets with actuator

DN	Actuator	Kvs	Kg	EAN	Article No
25	M130/230	52	5,0	5902276896187	322030-50613
25	M130/24	52	5,0	5902276899362	322030-50623
25	M140/230	52	6,5	5902276896194	322030-50614
25	M140/24	52	6,5	5902276899379	322030-50624
32	M130/230	72	5,0	5902276896200	322030-50713
32	M130/24	72	5,0	5902276899386	322030-50723
32	M140/230	72	6,5	5902276896217	322030-50714
32	M140/24	72	6,5	5902276899393	322030-50724
40	M130/230	126	5,0	5902276896224	322030-50813
40	M130/24	126	5,0	5902276899409	322030-50823
40	M140/230	126	7,0	5902276896231	322030-50814
40	M140/24	126	7,0	5902276899416	322030-50824
50	M130/230	124	5,5	5902276896248	322030-50913
50	M130/24	124	5,5	5902276899423	322030-50923
50	M140/230	124	7,0	5902276896255	322030-50914
50	M140/24	124	7,0	5902276899430	322030-50924
65	M130/230	243	6,0	5902276896262	322030-51013
65	M130/24	243	6,0	5902276899447	322030-51023
65	M140/230	243	8,0	5902276896279	322030-51014
65	M140/24	243	8,0	5902276899454	322030-51024
80	M130/230	397	6,5	5902276896286	322030-51113
80	M130/24	397	6,5	5902276899461	322030-51123
80	M140/230	397	8,5	5902276896293	322030-51114
80	M140/24	397	8,5	5902276899478	322030-51124
100	M140/230	723	9,0	5902276896316	322030-51214
100	M140/24	723	9,0	5902276899485	322030-51224
125	M180/230	1083	12,5	5902276896330	322030-51318
125	M180/24	1083	12,5	5902276899492	322030-51328
150	M180/230	1591	14,5	5902276896347	322030-51418
150	M180/24	1591	14,5	5902276899508	322030-51428
200	M180/230	2852	18,5	5902276896354	322030-51518
200	M180/24	2852	18,5	5902276899515	322030-51528

Technical silicon free version – contact IMI.

M140/M180 – IP65 version:

Add "IP" after the Article No., example 322030-50614IP

Accessories

ACA 32 Position switch unit

Potential free, infinitely adjustable.
2 switches (WE3/WE4)

For actuator	EAN	Article No
M130	5902276807381	322042-10050
M140, M180	5901688829271	322042-10051

ACA 33 Potentiometer

With attachment
200 Ω (1 k Ω and 10 k Ω on request)
1,5 VA

For actuator	EAN	Article No
M130	5902276899652	322042-10009
M140, M180	5902276804175	322042-10078

ACA 38 Heater

-20°C – +50°C
25 VA
50/60 Hz

For actuator	EAN	Article No
M140		
230 VAC / 115 VAC	5902276804182	322042-10079
24 VAC	5902276804199	322042-10080
M180		
230 VAC / 115 VAC	5902276804205	322042-10081
24 VAC	5902276804212	322042-10082

For IP65 version: See "Articles".

Technical silicon free version – contact IMI.