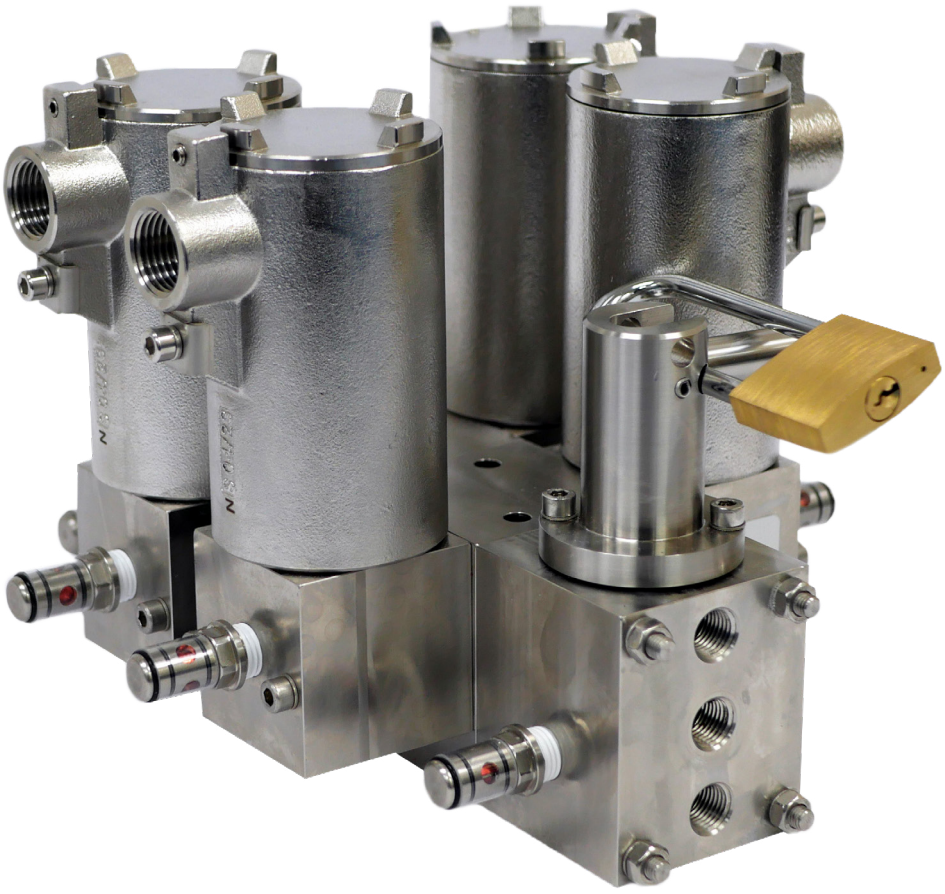
MAXSEAL®

Redundant Valve Manifold (RVM)



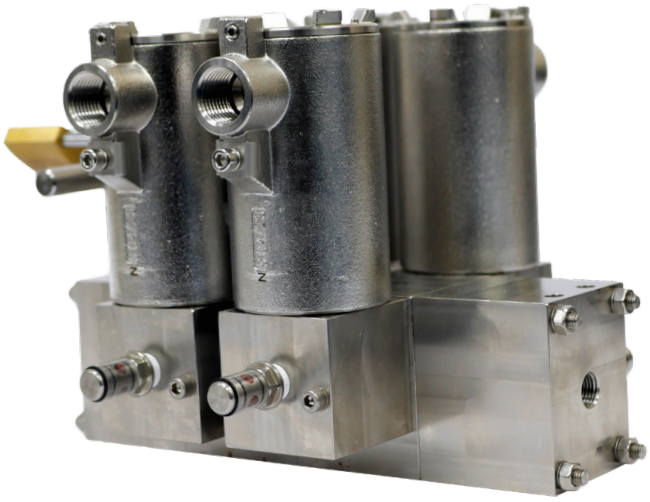
IMI Critical Engineering

Breakthrough Engineering

Redundant Valve Manifold (RVM)

Key Benefits

- Fully Certified solution from -55 ... +90°C
- Utilising Maxseal best in class ICO3 Solenoid
- Ideal for one time installation with 25 year life span and no reported coil failures
- Reduced leak paths through integrated manifold
- Compact solution reducing weight and size
- Increased safety and reliability through redundancy (1oo2 & 2003 systems or 2oo2)
- Individual indicators available to identify solenoid failure
- Pneumatic & hydraulic pptions available
- Different materials on request
- FRL/bypass/speed controls on request



Technical Features

Medium:
Pneumatic & hydraulic as standard
High pressure hydraulic versions available
Redundancy Configuration:
1oo2, 2oo2 and 2oo3 options available

Flow:
0.6 Cv (8.7 Kv)
Port Size:
¼" (½" variants available)
Operating Pressure:
12 bar

Media Temperature:
-20 ... +90°C
Response Drop Out:
<0.06s
Bypass Function:
Bypass & non-bypass options

Materials:
Solenoid Enclosure / Valve / Manifold:
Stainless Steel 1.4404 (316L)
Other materials on request

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«.**

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Thompson Valves Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

For further information please contact: imithompson.sales@imi-critical.com

Redundant Valve Manifold (RVM)

Technical Data – Standard Models

Model	Port Size	Number of Ports	Operation	Operating Pressure (bar)	Voltage	Coil Rating (W)	Body Material	Seat Material	Process Connection	Media Temperature (°C)	Weight (kg)	Leak Performance	Response Drop Out (s)
A20120AA1H1BS00	1/4	1oo2 Bypass	Automatic	2.5-10	24V DC	3	316L SS	Nitrile	1/4 NPT	-20/80	11	Bubble Tight	<0.060
A20140AA1H1BS00	1/4	1oo2 No-Bypass	Automatic	2.5-10	24V DC	3	316L SS	Nitrile	1/4 NPT	-20/80	7	Bubble Tight	<0.060
A20320AA1H1BS00	1/4	2oo2 Bypass	Automatic	2.5-10	24V DC	3	316L SS	Nitrile	1/4 NPT	-20/80	11	Bubble Tight	<0.060
A20340AA1H1BS00	1/4	2oo2 No-Bypass	Automatic	2.5-10	24V DC	3	316L SS	Nitrile	1/4 NPT	-20/80	7	Bubble Tight	<0.060
A20520AA1H1BS00	1/4	2oo3 Bypass	Automatic	2.5-10	24V DC	3	316L SS	Nitrile	1/4 NPT	-20/80	18	Bubble Tight	<0.060
A20540AA1H1BS00	1/4	2oo3 No-Bypass	Automatic	2.5-10	24V DC	3	316L SS	Nitrile	1/4 NPT	-20/80	14	Bubble Tight	<0.060

Option Selector

A20★★★★★★★★★★S★★

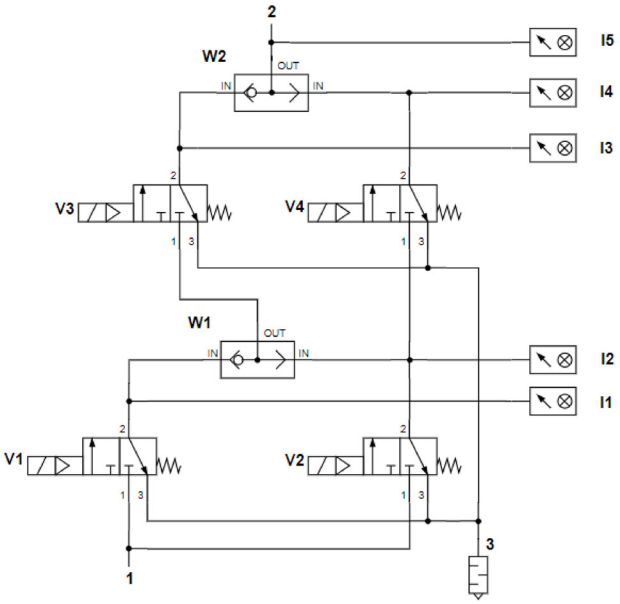
RVM Circuit	Substitute
1oo2	1
2oo2	3
2oo3	5
Bypass Function	**Substitute**
Bypass	2
No Bypass	4
Ex Protection Concept	**Substitute**
ICO3S Ex d	0
ICO3S Ex mbe	Z
ICO3S Ex ia	X
Operation	**Substitute**
Automatic	A
Push Button Manual Override	C
Push Button Manual Reset	P
Jackscrew Manual Override	S
Tamperproof Manual Reset	T
Automatic Latching Button	B
Nominal Bore Size & Female Thread Imperial (Metric)	**Substitute**
1/4" NPT (6mm)	A1
1/4" BSPP (6mm)	E1
Seat / Seal Material	**Substitute**
Nitrile	H
Viton	V

Exhaust Silencers	Substitute
Plastic Guard	0
Plastic Silencer	1
SS Silencer	3
Visual Indicators	**Substitute**
Stainless Steel	0
Plastic	1
None (Plugged)	3
Voltage	**Substitute**
24V DC	B
48/50V DC (48V)	C
110V DC	D
125V DC	E
24V AC	G
50V AC	H
110V AC (HALF-WAVE)	J
220/240V AC (240V) (HALF -WAVE)"	M
90/140V DC (125V)	S
120V AC	T
Conduit Entry	**Substitute**
M20 X 1.5mm ISO (F)	1
1/2" Npt (F)	2

Redundant Valve Manifold (RVM)

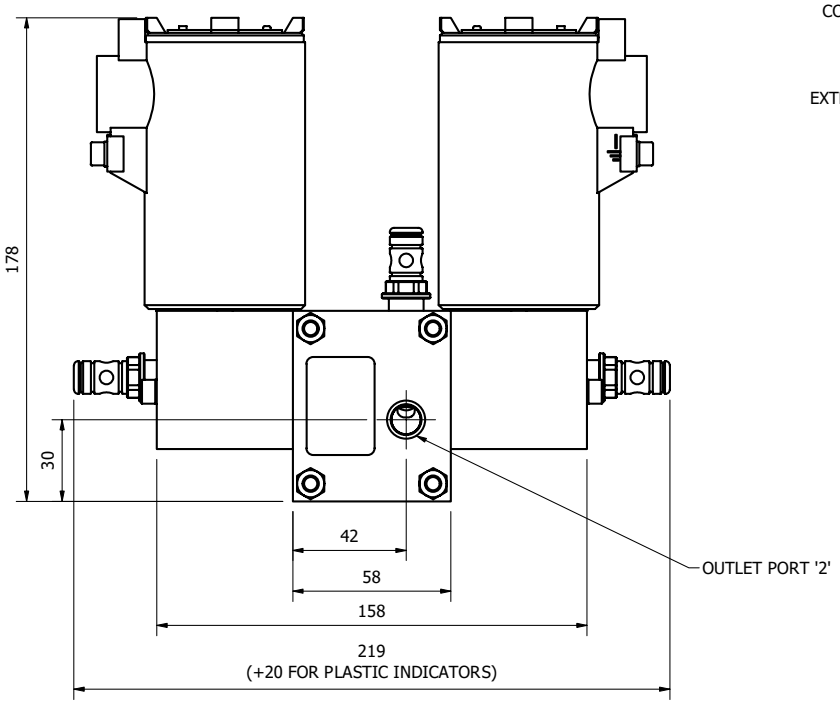
Typical Schematics

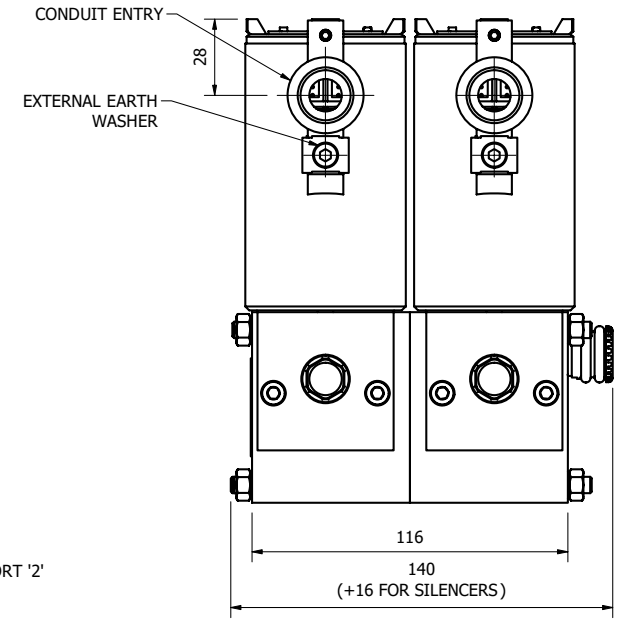
2oo3 Without Bypass



Dimensions

Dimensions in mm
Projection/third angle

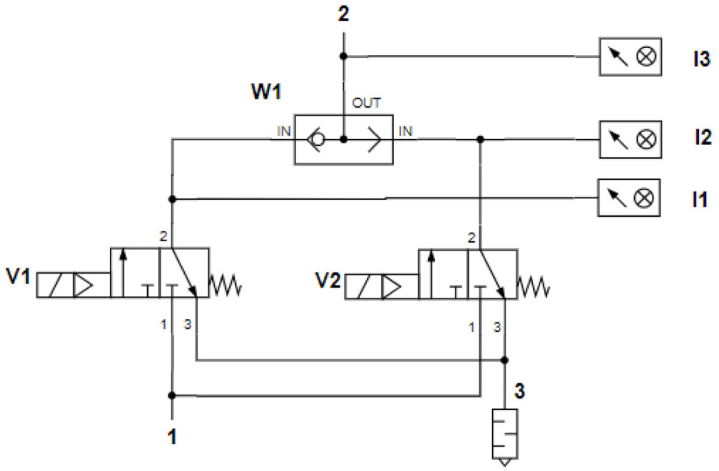




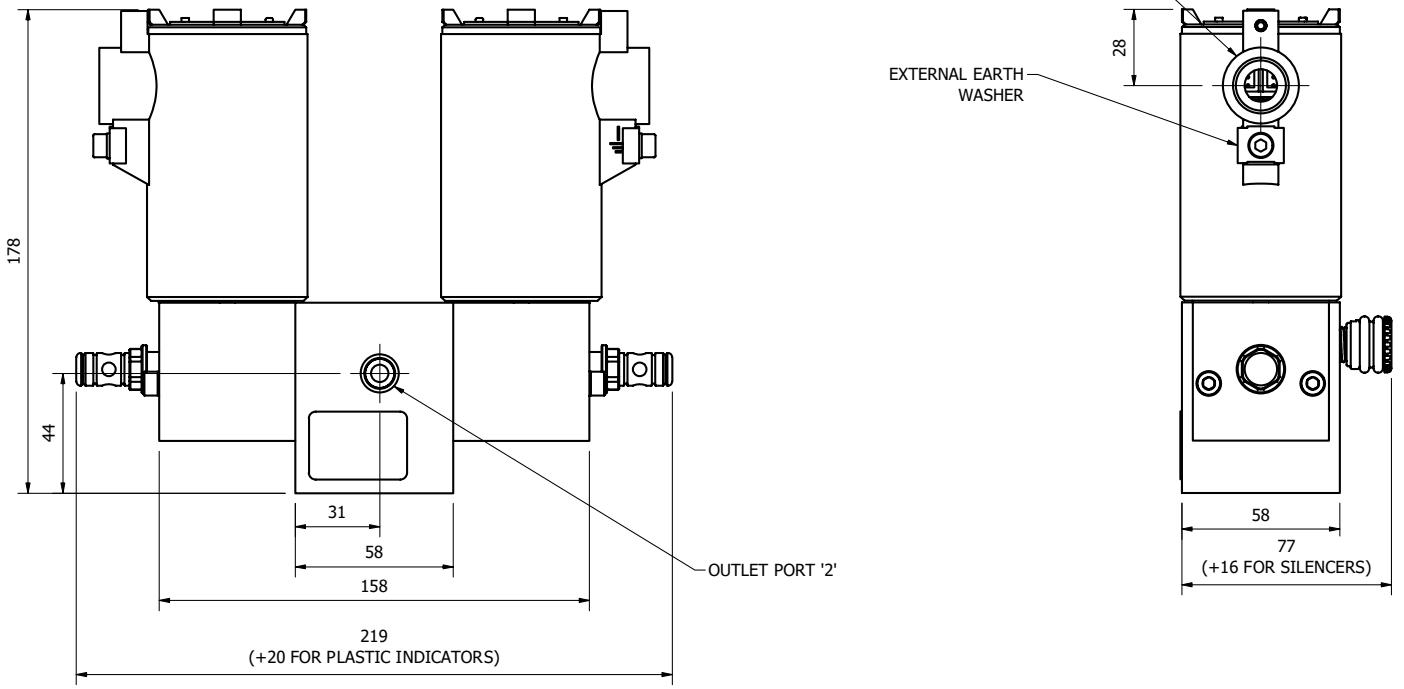
Redundant Valve Manifold (RVM)

Typical Schematics

2oo2 Without Bypass



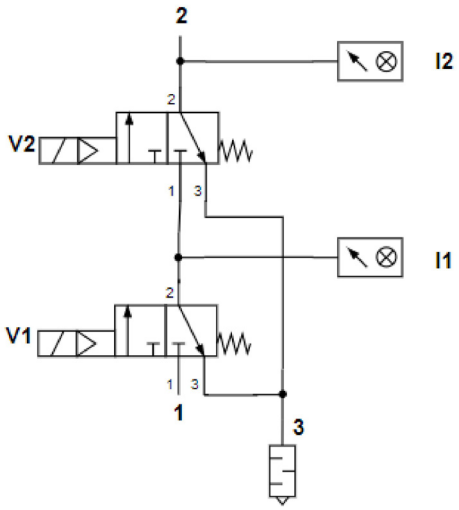
Dimensions



Redundant Valve Manifold (RVM)

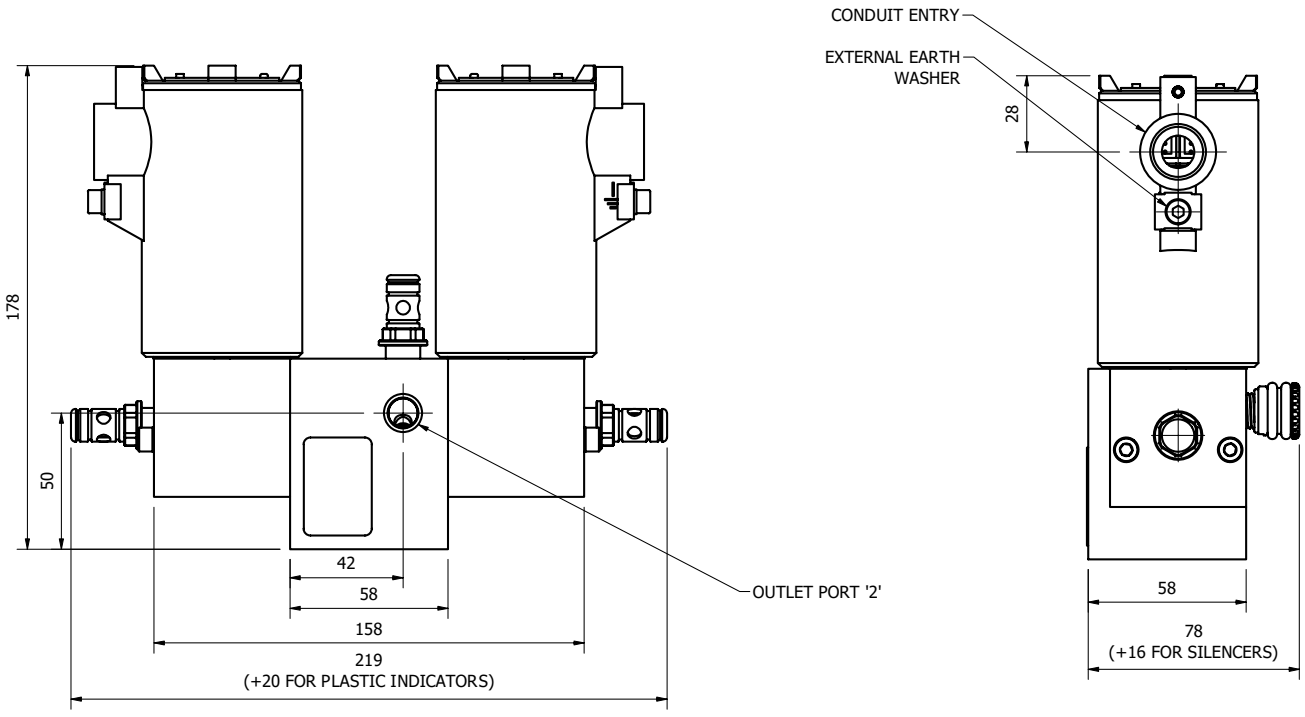
Typical Schematics

1oo2 Without Bypass



Dimensions

Dimensions in mm
Projection/third angle

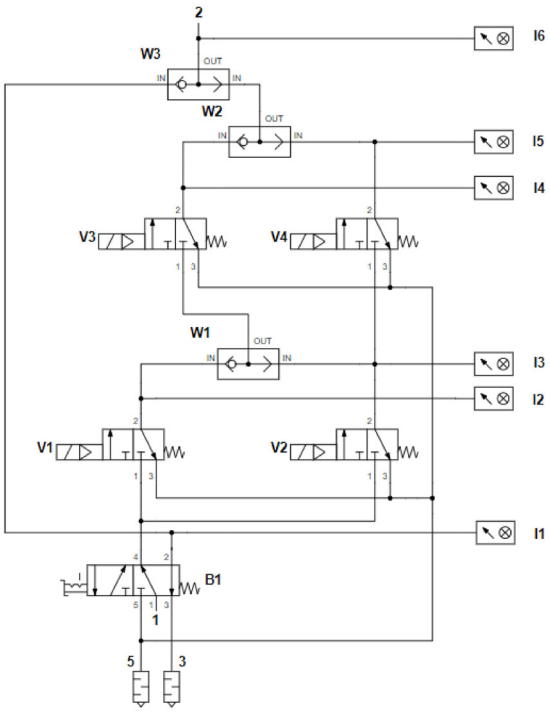


WEIGHT: 7 Kg

Redundant Valve Manifold (RVM)

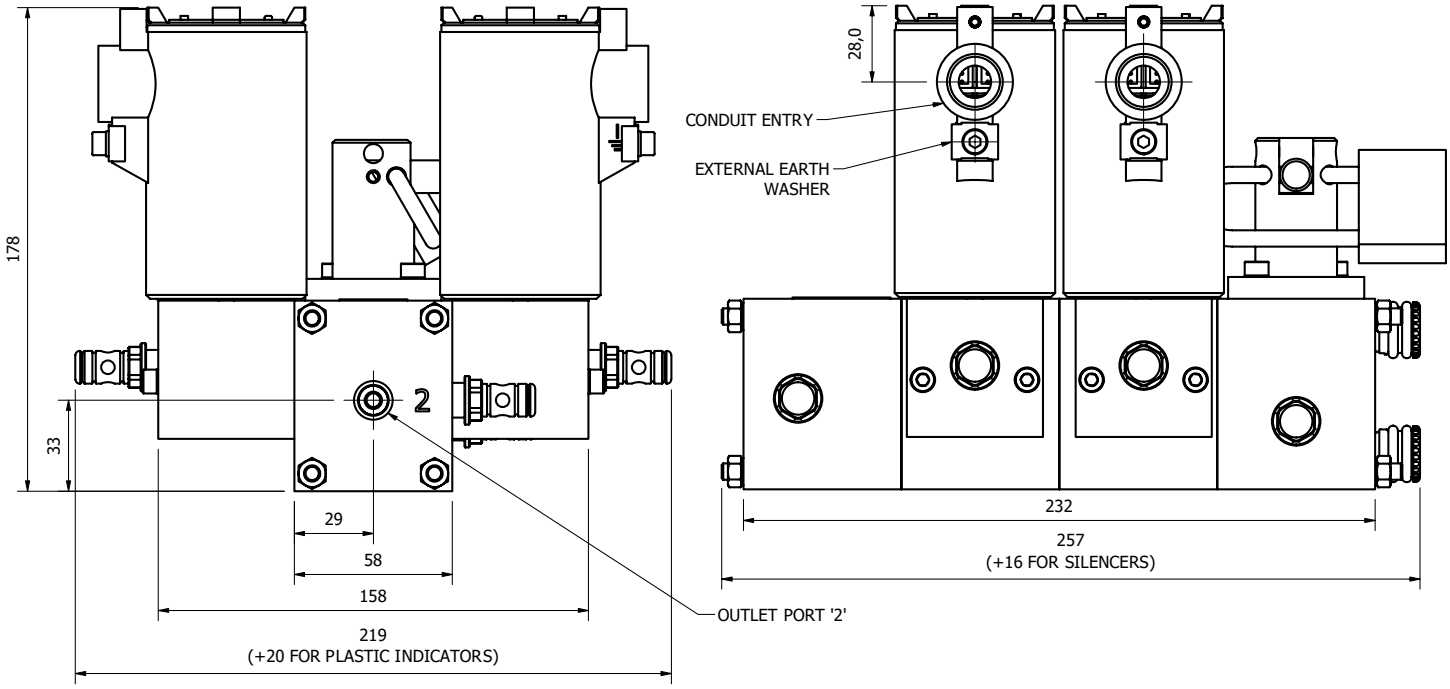
Typical Schematics

2oo3 With Bypass



Dimensions

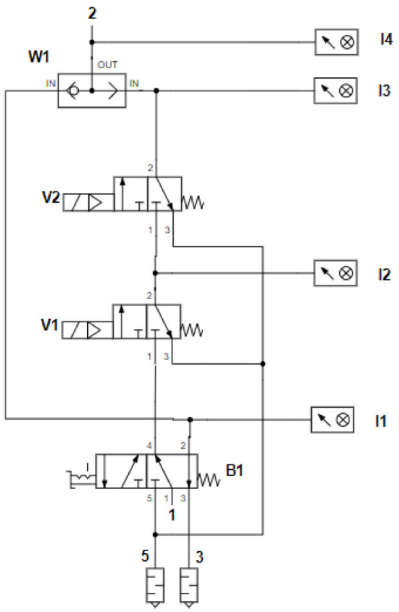
Dimensions in mm
Projection/third angle



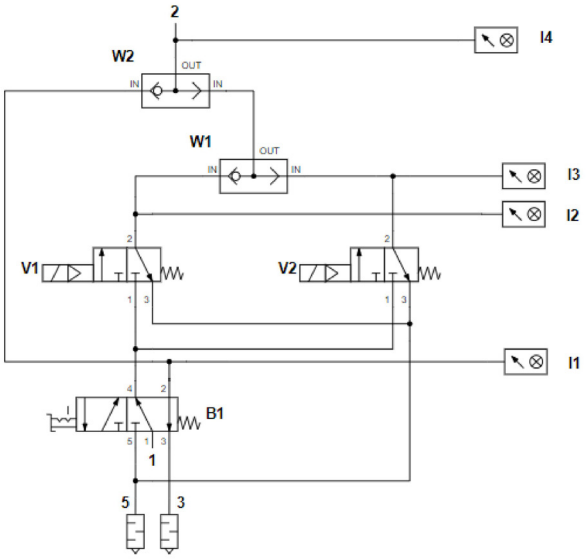
Redundant Valve Manifold (RVM)

Typical Schematics

1oo2 With Bypass

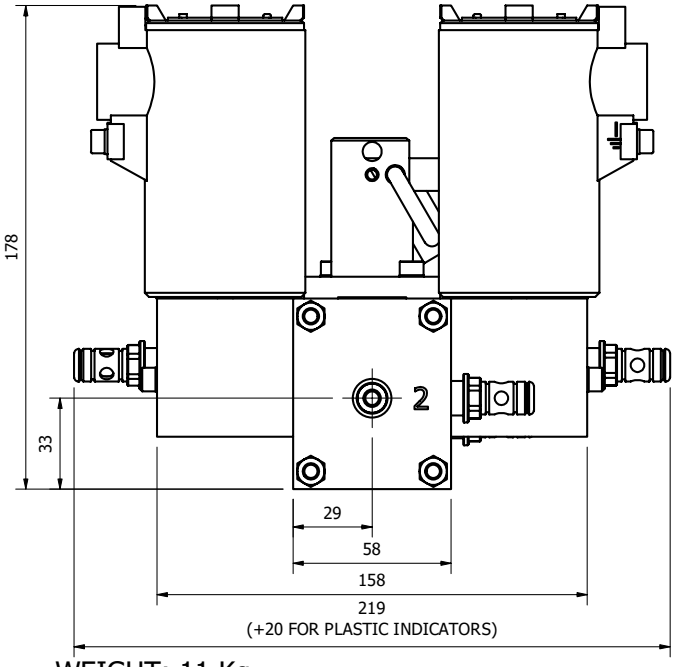


2oo2 With Bypass

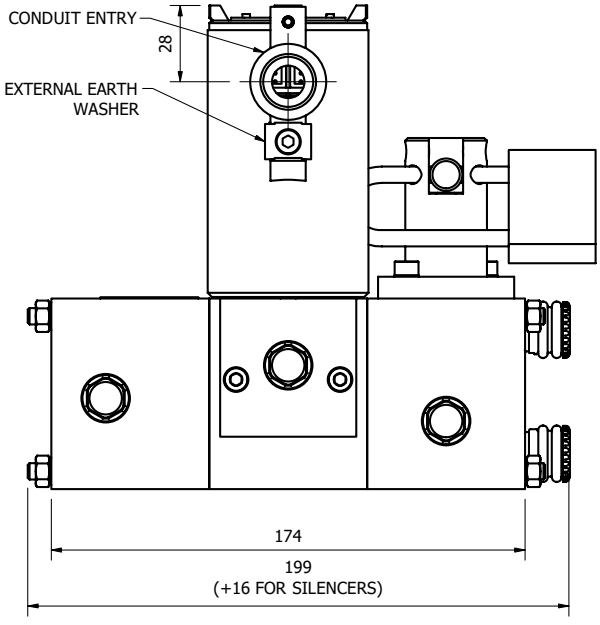


Dimensions

Dimensions in mm
Projection/third angle



WEIGHT: 11 Kg



Contact us to learn more about Redundant Valve Manifolds

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