

Description

The M10HPi ISO three-piece body ball valve has a lockable handle and ISO mounting as standard. It features a special floating ball, which has received a surface hardening and a blow-out proof stem. This particular ball valve has been specially designed for manual isolation of applications using high-pressure gas. The M10HTi ISO has been designed for use as an isolating valve, not a control valve, and can be serviced without removal from the pipeline.

ISO mounting

The integral ISO body mounting allows the valve to be automated without losing seal integrity, as the body does not require disassembly. Manual to remote control may therefore be easily accomplished by the ISO range of Spirax Sarco ball valves.

Available types

M10HPi2 ISO	Zinc plated carbon steel body and caps.
M10HPi3 ISO	Stainless steel body and caps.

Note: The nomenclature will be followed with either FB (full bore) or **RB** (reduced bore).

Standards

This product fully complies with the requirements of the Pressure Equipment Directive (PED) and carries the C mark when so required. The product has been specifically designed for use on steam, compressed air, water, and other industrial fluids that are in Group two of the above mentioned PED.

Certification

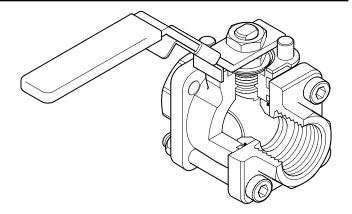
This product is available with certification to EN 10204 3.1. Note: All certification / inspection requirements must be stated at the time of order placement.

Options

- Self-venting ball.
- Extended stem 4" (100 mm) to allow full insulation.*
- Oval handle for confined spaces. Ideal for trap modules.*
- *manual operation only

Technical data

Flow characteristic	Modified linear
Port	Full and reduced bore versions
Leakage test procedure t	o ISO 5208 (Rate A)/EN 12266-1 (Rate A)
Antistatic device	Complies with ISO 7121 and BS 5351



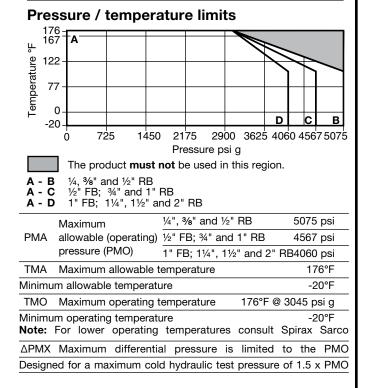
Sizes and pipe connections

Full bore

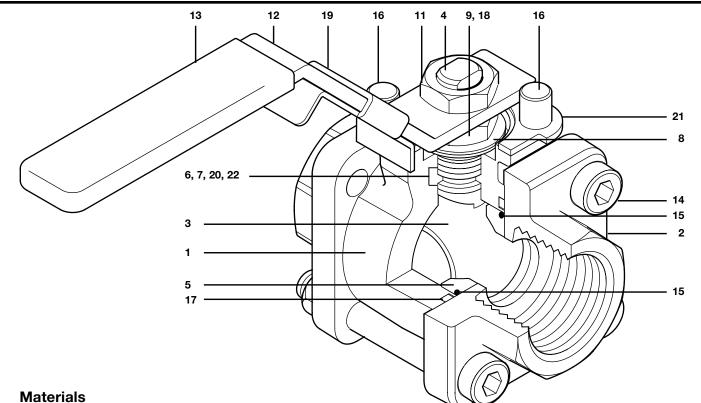
1/4", 3/8", 1/2", 3/4", 1", 11/4" and 11/2" Screwed NPT, BW, SW

Reduced bore

1/4", 3/8", 1/2", 3/4", 1", 11/4", 11/2" and 2" Screwed NPT, BW, SW



In the interests of development and improvement of the product, we reserve the right to change the specification. 798 Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

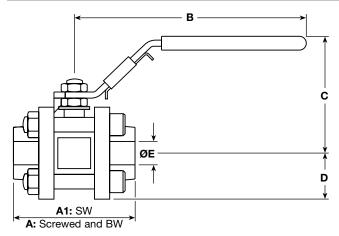


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No.	Part		Material	
	Dartu	M10HPi2 ISO	Zinc plated carbon steel	ASTM A105
1	Body	M10HPi3 ISO	Stainless steel	ASTM A 182 F 316L
-		M10HPi2 ISO	Zinc plated carbon steel	ASTM A105
2	Сар	M10HPi3 ISO	Stainless steel	ASTM A 182 F 316L
3	Ball		Stainless steel (hardened)	AISI 316
4	Stem		Stainless steel	AISI 316
*5	Seat		Acetal	
*6	Stem seal		Reinforced PEEK	
7	Separator		Zinc plated carbon steel	SAE 1010
8	Belleville washer		Stainless steel	AISI 301
9	Stem nut		Zinc plated carbon steel	SAE 1010
10	Name-plate (Not shown)		Stainless steel	AISI 430
11	Upper stem nut		Zinc plated carbon steel	SAE 1010
12	Lever		Zinc plated carbon steel	SAE 1010
13	Grip		Vinyl green	
14	Bolts		Zinc plated carbon steel	Grade 12.9
*15	Seat 'O' ring		Viton	
16	Stop screw		Zinc plated carbon steel	SAE 12L 14
*17	Body / cap 'O' ring		Viton	
18	Nut locker		Stainless steel	AISI 316
19	Lockable handle		Stainless steel	AISI 316
*20	Stem seal		Glass - PTFE	
21	Lock-plate		Stainless steel	AISI 316
*22	Stem seal		Stainless steel	AISI 316
*Note	e: Available spare parts sold	as a kit.		

Note: Available spare parts sold as a kit.

Dimensions (approximate) in Inches / Ib's **Reduced Bore**

Size	Α	A1	В	С	D	E	Weight
1/4"	3.2	3.2	3.6	6.3	1.1	0.4	3.2
3/8"	3.3	3.3	3.6	6.3	1.1	0.4	3.2
1/2"	3.3	3.3	3.6	6.3	1.1	0.4	3.3
3/4"	3.6	3.6	3.7	6.3	1.1	0.5	3.8
1"	4.5	4.5	3.9	6.3	1.3	0.8	5.6
1-1/4"	5.2	5.2	4.1	6.3	1.6	0.9	8.6
1-1/2"	5.7	5.7	4.7	7.3	1.8	1.2	12.3
2"	6	6	4.9	7.3	2	1.5	15.3



Full Bore

Size	Α	A1	В	С	D	Е	Weight
1/4"	3.3	3.3	3.6	6.3	1.1	0.4	3.2
3/8"	3.3	3.3	3.6	6.3	1.1	0.4	3.2
1/2"	3.6	3.6	3.7	6.3	1.1	0.5	3.8
3/4"	4.5	4.5	3.9	6.3	1.3	0.8	5.6
1"	5.2	5.2	4.1	6.3	1.6	0.9	8.6
1-1/4"	5.7	5.7	4.7	7.3	1.8	1.2	12.3
1-1/2"	6	6	4.9	7.3	2	1.5	15.3

Cy values

Cv valu	es							
Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Reduced Bore	5.7	7.8	6.9	11.5	31.1	56.5	80.7	118.7
Full Bore	5.7	7.8	19.6	41.5	66.8	102.6	176.4	-

Operating torque (Lb-Ft)

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Reduced	7.3	7.3	7.3	11.0	18.4	29.5	40.5	73.7
Bore	7.5	7.5	7.5	11.0	10.4	29.5	40.5	13.1
Full Bore	7.3	7.3	11.0	18.4	29.5	40.5	73.7	-

The indicated torque values are for valves frequently operated, that are submitted to a maximum differential pressure.

Valves that are subject to long static periods, may require greater break-out torque.

Safety information, installation and maintenance

Installation and Maintenance Instructions, IM-P133-74.

How to order example:

1 off Spirax Sarco 1/2" screwed NPT M10HPi2FB ISO ball valve.

Spare parts The spare parts available are shown in solid outline. Parts drawn in broken line are not supplied as spares.

Available spares

Seat, seals, body / cap 'O' ring	5, 6, 15, 17, 20, 22
and seat 'O' ring set	5, 0, 15, 17, 20, 22

How to order spares

