SOLENOID VALVES

direct operated, quick switching
manifold mount, pad-mount or inline version,
or push-in hose connection

2/2 NC

3/2 NC

2/2
3/2
Series
RB

FEATURES

- *Miniature solenoid valves for medical and gas analysers and leak detectors*
- *Suitable for the control of gases*
- *The valves have a service life of more than 100 million cycles when used with inert gas*
- *Short response times*
- *Easy to integrate thanks to the valve's small size*
- *Available in a variety of versions for a wide range of applications: threaded connections or pad-mount for installation on multiple manifolds*
- *Vacuum application up to -0.1 bar abs.*
- *Low power consumption and light weight offers extended battery life for portable devices*
- *Multiple body configurations to suit all application needs*

GENERAL

Differential pressure See "SPECIFICATIONS" [1 bar =100 kPa]
Response time < 10 ms

fluids (⁎)	temperature range (TS)	seal materials (⁎)
air, inert gases (filtered 10 µm)	0 °C to +60 °C	FPM (fluoroelastomer) NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

(⁎) Ensure that the compatibility of the fluids in contact with the materials is verified

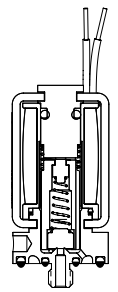
Body PBT, brass
Internal parts Stainless steel
Seat PBT, brass
Seals FPM, NBR

ELECTRICAL CHARACTERISTICS

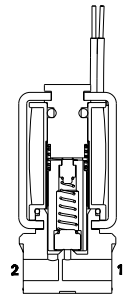
Coil insulation class B (130°C)
Connection Cable ends 26 AWG or circuit board mount
Electrical safety IEC 335
Electrical enclosure protection IP30 (EN 60529)
Standard voltages DC (=) : 5V - 12V - 24V

prefix option	power ratings inrush ~	holding ~		hot/cold =	operator ambient temperature range (TS)	raplacement coil	
	(VA)	(VA)	(W)	(W)	(C°)		
-	-	-	-	0,5 / 1,0 / 2.0	0 to +60	-	-

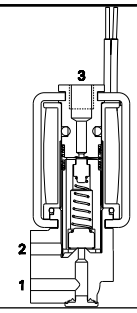
(1) Refer to the dimensional drawings on the following page.



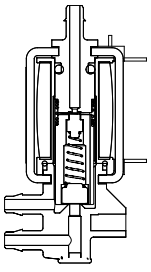
2/2 NC manifold mount



2/2 NC line mount



3/2 NC pad mount



3/2 NC push-in hose connection

SPECIFICATIONS

pipe size	orifice size (mm)	flow coefficient Kv		operating pressure differential (bar)		power coil (W)	catalogue number
				min,	max, (PS) air, inert gas (✶)		
		(m^3/h)	(l/min)		=	=	
2/2 NC - Normally closed							
10-32 UNF Stud Manifold Mount, Brass (M)	0,8	0,021	0,35	-0,9	3,4	0,5	**RLM20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHM20xx30x**
	1,3	0,047	0,78	-0,9	1,7	0,5	**RLM20xx50x**
	1,3	0,047	0,78	-0,9	3,4	1,0	**RMM20xx50x**
	1,3	0,047	0,78	-0,9	6,9	2,0	**RHM20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHM20xx80x**
10-32 UNF Female In-Line, Brass (L)	0,8	0,021	0,35	-0,9	3,4	0,5	**RLL20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHL20xx30x**
	1,3	0,047	0,78	-0,9	1,7	0,5	**RLL20xx50x**
	1,3	0,047	0,78	-0,9	3,4	1,0	**RML20xx50x**
	1,3	0,047	0,78	-0,9	6,9	2,0	**RHL20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHL20xx80x**
3,17 mm Push-in Hose Connecton PBT (B)	0,8	0,021	0,35	-0,9	1,0	0,5	**RLB20xx30x**
	0,8	0,021	0,35	-0,9	3,4	1,0	**RMB20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHB20xx30x**
	1,3	0,047	0,78	-0,9	0,7	0,5	**RLB20xx50x**
	1,3	0,047	0,78	-0,9	2,4	1,0	**RMB20xx50x**
	1,3	0,047	0,78	-0,9	4,8	2,0	**RHB20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHB20xx80x**
Pad Mount, PBT (F)	0,8	0,021	0,35	-0,9	1,0	0,5	**RLF20xx30x**
	0,8	0,021	0,35	-0,9	3,4	1,0	**RMF20xx30x**
	0,8	0,021	0,35	-0,9	6,9	2,0	**RHF20xx30x**
	1,3	0,047	0,78	-0,9	0,7	0,5	**RLF20xx50x**
	1,3	0,047	0,78	-0,9	2,4	1,0	**RMF20xx50x**
	1,3	0,047	0,78	-0,9	4,8	2,0	**RHF20xx50x**
	2,0	0,07	1,16	-0,9	1,7	2,0	**RHF20xx80x**

HOW TO ORDER

10-DIGIT PRODUCT CODE

RLM20 **x** **x** **30** **x**

catalogue no.

voltages
4 = 5 VDC
6 = 12 VDC
7 = 24 VDC

electrical connection
H = cable ends
P = PCB pins (circuit board)

seal materials
B = NBR
V = FPM
O = Oxygen service (FPM)

catalogue no.

Ordering example: RLM204H30B = 2-way (normally closed), 5 VDC, manifold mount with 0,8 mm orifice, 0,5 watt, cable ends, NBR seals

SPECIFICATIONS

pipe size	orifice size (mm)		flow coefficient Kv		operating pressure differential (bar)		power coil (W)	catalogue number
					min,	max, (PS) air, inert gas (✳)		
	1 → 2	2 → 3	(m^3/h)	(l/min)		=	=	
3/2 NC - Normally closed								
10-32 UNF Stud Manifold Mount, Brass (M)	0,8	1,0	0,021	0,35	-0,9	3,4	0,5	**RLM3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHM3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	1,0	0,5	**RLM3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	3,4	1,0	**RMM3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	6,9	2,0	**RHM3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHM3xxx85x**
10-32 UNF Female In-Line, Brass (L)	0,8	1,0	0,021	0,35	-0,9	3,4	0,5	**RLL3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHL3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	1,0	0,5	**RLL3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	3,4	1,0	**RML3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	6,9	2,0	**RHL3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHL3xxx85x**
3,17 mm push-in hose PBT (B)	0,8	1,0	0,021	0,35	-0,9	1,0	0,5	**RLB3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	3,4	1,0	**RMB3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHB3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	0,7	0,5	**RLB3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	2,4	1,0	**RMB3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	4,8	2,0	**RHB3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHB3xxx85x**
Pad Mount, PBT (F)	0,8	1,0	0,021	0,35	-0,9	1,0	0,5	**RLF3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	3,4	1,0	**RMF3xxx34x**
	0,8	1,0	0,021	0,35	-0,9	6,9	2,0	**RHF3xxx34x**
	1,3	1,3	0,047	0,78	-0,9	0,7	0,5	**RLF3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	2,4	1,0	**RMF3xxx55x**
	1,3	1,3	0,047	0,78	-0,9	4,8	2,0	**RHF3xxx55x**
	2,0	1,3	0,07 / 0,047	1,16 / 0,78	-0,9	1,7	2,0	**RHF3xxx85x**

HOW TO ORDER

10-DIGIT PRODUCT CODE

RLM3 **x** **x** **x** **30** **x**

catalogue no.

port 3 style
B = 3,17 mm push-in hose connection
F = 10-32 UNF female

voltages
4 = 5 VDC
6 = 12 VDC
7 = 24 VDC

electrical connection
H = cable ends
P = PCB pins (circuit board)

seal materials
B = NBR
V = FPM
O = Oxygen service (FPM)

catalogue no.

Ordering example: RLM3B7P34V = 3-way (normally closed), 24 VDC, port 3 with push-in hose connection, manifold mount with 0,8 mm orifice, 0.5 watt, PCB pins, FPM seals

OPTIONS

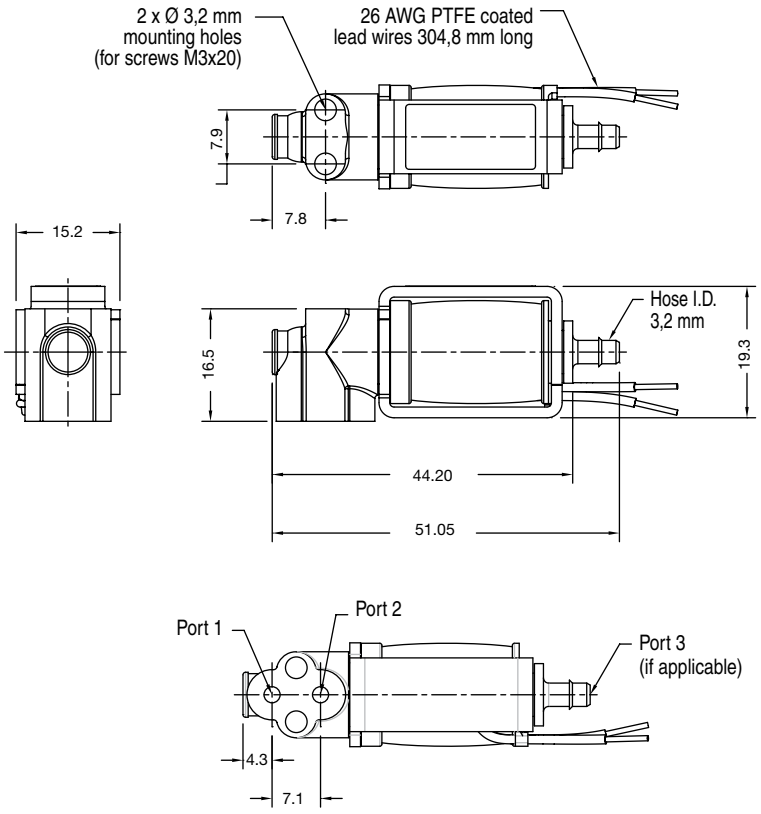
- Other voltages
- Other seal materials
- Other electrical connectors
- Oxygen service
- Other pipe connections

INSTALLATION

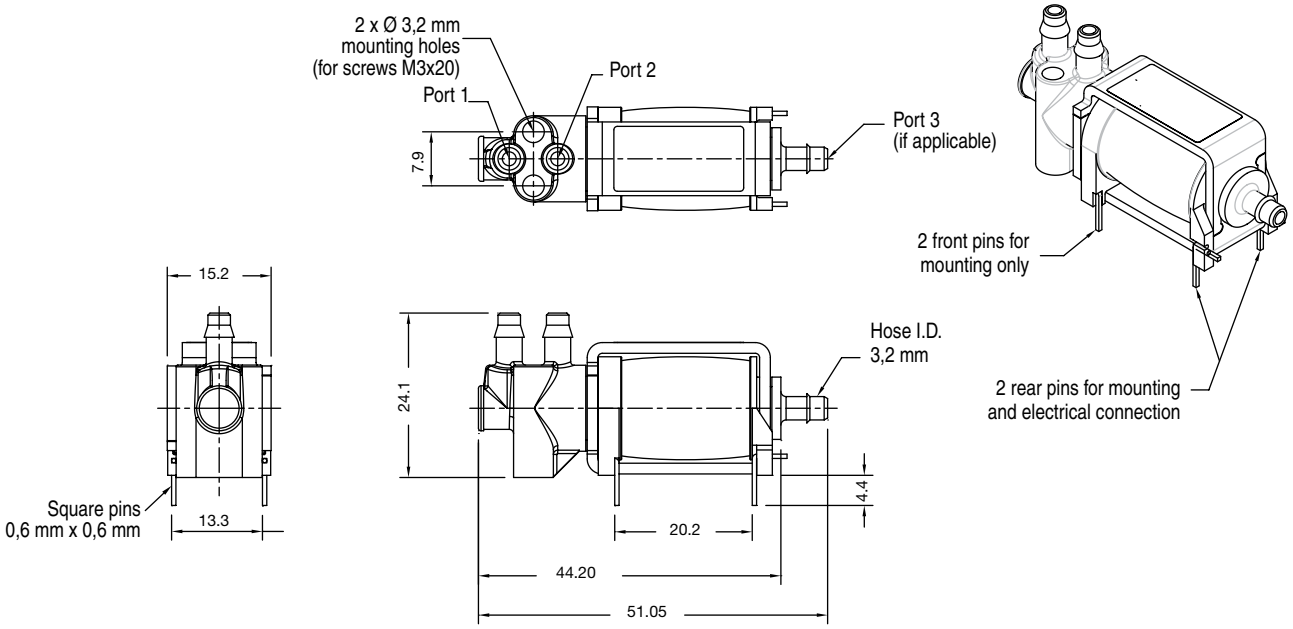
- The solenoid valves can be mounted in any position without affecting operation
- Threaded solenoid valves have 2 mounting holes in body
- Pad-mount valves and o-ring seals for multiple manifolds

DIMENSIONS (mm), **WEIGHT (**kg)

2- and 3-way pad mount solenoid valve

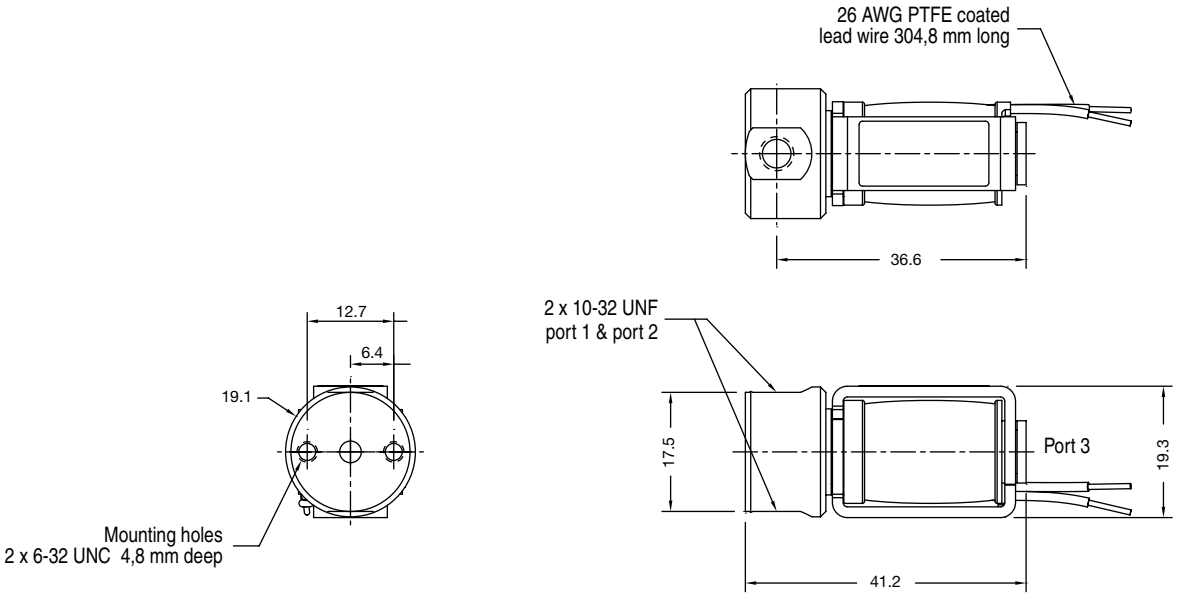


2- and 3-way solenoid valve with push-in hose connection



DIMENSIONS (mm), **WEIGHT** (**k**g)

2- and 3-way line mount solenoid valve



2- and 3-way manifold mount solenoid valve