

FEATURES

- The valves are certified according to IEC 61508 Functional Safety data and have SIL-3 capability (TÜV & Exida certification)
- The solenoid valves are recommended for pilot applications with basic flow, wide pressure ranges and no minimum operating pressure
- PTFE rider rings and graphite-filled PTFE seals reduce friction and eliminate sticking
- Coils used in metal enclosures have class H insulation materials
- Dedicated execution for low power
- Dedicated execution for extreme low ambient temperatures
- Peak voltage suppression diodes are standard in DC solenoids with metal enclosures
- The solenoid valves satisfy all relevant EU directives
- Manual Operators are optional including an under pressure removable type
- Environmental NACE compliant and certified vibration resistant in combination with WSCR solenoids



GENERAL

Differential pressure 0 - 10 bar [1 bar = 100kPa]

Maximum viscosity 65cST (mm²/s)

Response times 75 - 100 ms⁽¹⁾

fluids ⁽²⁾ (*)	temperature range (TS) ⁽³⁾	seal materials (*)
air, inert gas, water, oil	-20 to +120°C -40 to +40°C -60 to +60°C	FPM (fluoroelastomer) VMQ (silicone) (F)VMQ ((fluor)silicone)

⁽¹⁾ Energising time for Ex i version booster coils will be < 2 sec (NFIS, WSNFIS and WSCRIS)

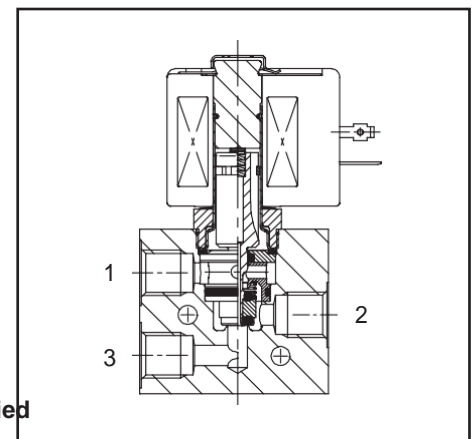
⁽²⁾ Air / inert gas only for Ex i version (NFIS, WSNFIS and WSCRIS)

⁽³⁾ Can be limited by the operator ambient temperature range for explosion proof solenoids

MATERIALS IN CONTACT WITH FLUID

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

	Brass body	Stainless steel body
Body	Brass	AISI 316L SS
Stem	Stainless steel	Stainless steel
Core tube	Stainless steel	Stainless steel
Core and plugnut	Stainless steel	Stainless steel
Springs	Stainless steel	Stainless steel
Sealings & poppets	FPM, VMQ, (F)VMQ	FPM, VMQ, (F)VMQ
Rider ring	PTFE	PTFE



LP	RP	MP
0,5W - 1,8W	3,6W - 3,7W	5,7W - 5,8W
Low power	Reduced power	Medium power

BP
10,0W-11,6W
Basic power

POWER LEVELS - cold electrical holding values (watt)

SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)		power level	prefix optional solenoids										basic catalogue number	
				min.	max. (PS)		NEMA 7&9	ATEX / IECEx						IP65				
					air/water (★)			Ex db	Ex i	Ex eb mb		Ex mb						
❖	(mm)	(m³/h)	(l/m)		~/=	~/=	EF	NF	WSCR	NFIS	WSCRIS	EM	WSCREM	PV	SC	brass ⁽⁴⁾	stainless steel	
U - Universal, FPM sealings and poppets (minium fluid temperature -20°C) ⁽³⁾																		
1/4	5,7	0,45	7,5	0	10	BP	●	●	-	-	-	●	-	○	●	❖ 327B001	❖ 327B002	
1/4	5,7	0,45	7,5	0	10	MP	-	●	●	-	-	●	●	-	●	❖ 327B201	❖ 327B202	

1/4	5,7	0,45	7,5	0	10	RP	-	●	●	-	-	●	●	-	●	❖ 327B101	❖ 327B102
1/4	5,7	0,45	7,5	0	10 ⁽²⁾	LP	-	○	○	○	○	-	○	-	-	❖ 327B301	❖ 327B302
U - Universal, VMQ sealings and poppets (minimum fluid temperature -40°C)⁽³⁾																	
1/4	5,7	0,45	7,5	0	10	BP	●	●	-	-	-	●	-	○	●	❖ 327B011	❖ 327B012
U - Universal, (F)VMQ sealings and poppets (minimum fluid temperature -50°C)⁽³⁾																	
1/4	5,7	0,45	7,5	0	10	MP	-	-	-	-	-	●	-	-	●	❖ 327B211	❖ 327B212
1/4	5,7	0,45	7,5	0	10	RP	-	●	●	-	-	●	●	-	●	❖ 327B111	❖ 327B112
1/4	5,7	0,45	7,5	0	10 ⁽²⁾	LP	-	○	○	○	○	-	○	-	-	❖ 327B311	❖ 327B312
U - Universal, (F)VMQ sealings and poppets (minimum fluid temperature -60°C)⁽³⁾																	
1/4	5,7	0,45	7,5	0	10	MP	-	●	●	-	-	-	●	-	-	❖ 327B291	❖ 327B292

❖ Select 8 for NPT ANSI 1.20.3 or Select G for ISO G(228/1)

● Available feature

○ Available feature in DC only

- Not available

⁽²⁾ Air / inert gas only for Ex i version (NFIS, WSNFIS and WSCRIS)

⁽³⁾ For maximum ambient temperature check operator ambient temperature range on page 3

⁽⁴⁾ Not in combination with WSCR solenoids