

# Selection Chart Solenoid Valves

## Solenoid valves at a glance



Process connection	Pressure range (in MPa)	Media temperature (in °C)	Diameter (DN in mm)	Body material			Seal material Diaphragm material				Media			Form number type	Special features and variants	Area of application			
				Brass	VA	Plastic	NBR	EPDM	FKM	PTFE	FFKM*	Neutral fluids	Corrosive fluids				Aggressive fluids	Neutral gases	
M5, G 1/8, NPT 1/8, SFB	0...21 0...2.1	-10...+100	12...24	S	S	S	S	S	N	N	x	-	-	x	-		□		
M5, G 1/8 - 1/4, PIC, NPT 1/8, SFB	0...10 0...1	-10...+100	12...20	S	S	S	S	S	N	N	x	-	-	x	-		□		
G 1/8 - 3/8, NPT 1/8 - 3/8, SFB	0...25 0...2.5	-10...+180	2...6	S	N	S	A	S	A	x	-	-	-	-	-	FFKM only as seat seal	□		
G 1/8 - 1/4, NPT 1/8 - 1/4, SFB	0...16 0...1.6	-10...+120	1.5...3.0	S	S	S	A	S	A	A	x	-	-	x	-	PTFE, only up to DN 2.5; FFKM only seat seal and DN 2.0	□		
G 1/4 - 1/2, NPT 1/4 - 1/2	0...30 (100) 0...3 (10)	-40...+180	2...12	S	S	N	N	A	S	N	x	-	o	x	0285, 2200, partially 0255		□		
G 1/4 - 1/2, NPT 1/4 - 1/2	0...10 0...1	-200...+180	6...10	S	S	N	N	N	N	S	N	x	-	x	x	Media separated		□	
G 1/4, NPT 1/8	0...16 0...1.6	-30...+90	2...4	S	S	N	S	A	S	N	A	x	x	x	x	0124, 0332, 0780, 0788	Media separated		□
SFB	0...16 0...1.6	-30...+90	2...3	S	S	N	N	A	S	N	N	x	x	x	x	0125, 0333, 0780, 0788	Media separated		□
G 1/4, G 3/8	0...4 0...0.4	-10...+90	2...8	N	S	S	N	A	S	N	S	x	x	x	x	0789	Up to DN 8, media separated		□
G 3/8 - 1/2	0...3 0...0.3	-30...+50	10...20	S	N	S	N	S	S	N	N	x	x	x		0323, 0223	Media separated		□
G 1/4 - 1/2	0...16 (25/40) 0...1.6 (2.5/4)	-40...+180	6...12	S	S	N	A	S	N	x	-	o	x	-	-			○	
G 1/2 - 1	1...50 0.1...5	-10...+90	12...25	S	N	S	N	A	S	N	x	-	-	x	-			○	
G 1/2 - 2 1/2, NPT 1/4 - 2, DIN flange	0...3 0...0.3	-10...+90	12...50	S	N	N	N	N	S	N	x	-	-	x	-		Flange version in grey cast iron	○	
G 1/2 - 1, DIN flange	1...12 0.1...1.2	-10...+180	13...25	S	N	N	N	N	S	N	x	-	-	x	-		Flange version in grey cast iron	○	
G 1/2 - 2, DIN flange	0...10 0...1	-20...+180	13...50	S	N	N	N	N	S	N	x	-	-	x	-		Flange version in grey cast iron, fixed coupled	○	
G 1/4 - 1 1/2	0.5...16 0.05...1.6	0...+90	8...40	S	N	S	N	N	N	N	x	-	-	x	0342, 0786	Pilot media separated		○	
G 1/4 - 2, NPT 3/8 - 1	0...10 0...1	-30...+120	10...40	S	S	N	S	S	S	N	N	x	-	x	-		Spring coupled	△	
G 3/8 - 2, NPT 1/2 - 1	0.0...16 0.02...1.6	-30...+120	13...50	S	S	N	S	S	S	N	N	x	-	x	0280, 5281			△	
G 1/2 - 2, NPT 1/2 - 2 1/2, DIN flange	0...16 0...1.6	-30...+120	12...50	S	S	N	S	S	S	N	N	x	-	x	-		Flange version in grey cast iron, fixed coupled	△	
G 1/2 - 2 1/2, DIN flange	0.2...16 0.02...1.6	-30...+90	13...50	S	S	S	S	S	S	N	N	x	x	x	x		Flange version in grey cast iron, pilot media separated	△	

S = Standard | A = On request | N = Not available | ! = plastic version; type 0142  
○ Gas and/or steam applications

\* only as seal material | x = suitable | o = partially suitable | - = not suitable  
△ suitable for water applications



Temperature	Pressure		
	°C	bar	MPa
100	1.0	0.1	14.5
110	1.4	0.1	20.3
120	2.0	0.2	29.0
130	2.7	0.3	39.2
140	3.6	0.4	52.2
150	4.8	0.5	69.6
160	6.2	0.6	89.8
170	7.9	0.8	114.6
180	10.0	1.0	145.0
190	12.5	1.3	181.2
200	15.5	1.6	224.8
210	19.1	1.9	277.0
220	23.2	2.3	336.4
230	28.0	2.8	406.0
240	33.5	3.3	485.8
250	39.8	4.0	577.1

Reference: saturated vapour

**Water vapour pressure table**



-40 ... + 100°C		+ 110 ... + 250°C	
°C	°F	°C	°F
-40	-40	110	230
-30	-22	120	248
-20	-4	130	266
-10	14	140	284
0	32	150	302
10	50	160	320
20	68	170	338
30	86	180	356
40	104	190	374
50	122	200	392
60	140	210	410
70	158	220	428
80	176	230	446
90	194	240	464
100	212	250	482

°C = (°F) / 1.8 (F-32)  
°F = (°C) x 1.8 + 32

**Temperature conversion**

## Ny handy ventilguide:

I smart format, nem at have på sig og til at folde ud.

Indeholder alle de oplysninger, du behøver, når du skal vælge ventil:

### En samlet oversigt med:

Funktion, virkemåde, procestilslutning, ventilmateriale, pakningsmateriale.

### og detalje- tabeller over:

Tryk, temperatur, flow, medie, viskositet.

Et godt værktøj, når du arbejder med ventiler.