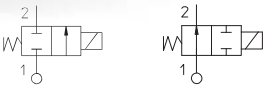


21A - 21L - 21ALB SERIES

General purpose, 2-way, Direct Acting

21A and **21L** are direct acting solenoid valves. The fixed core and armature tube are welded together to enhance pressure resistance and leak-tightness. Valves do not require a minimum operating pressure. A large selection of seal materials provides wide chemical compatibility. AC/DC interchangeability of the coil is possible for both NC and NO configurations.



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TECHNICAL DATA

PORT CONNECTION	G1/8, G1/4, G3/8, G1/2, Flange connection					
SEALING MATERIALS	soft				hard	
	NBR	FKM	EPDM	HNBR	RUBY	PTFE
FLUID TEMPERATURE	-10°C +90°C	-10°C +140°C	-10°C +140°C	-30°C +130°C	-40°C +180°C	-40°C +180°C
FLUIDS	Air, inert gases, water	Air, oils, gasoline, diesel	Water, steam	Air, inert gases, glycol	Water, steam, oils, diesel	Water, steam, aggressive chemical
VISCOSITY	12 cSt up to orifice 1.5 mm, 37 cSt for orifice 2.0 mm, 53 cSt for orifice 2.5 mm and above					
TUBE Ø - COIL WIDTH - SERIES	ø 13 mm - 30 mm			BDA08. BVA08 (CLASS F), BDV08 (CLASS H)		
	ø 13 mm - 36 mm			UDV16 (CLASS H)		
	ø 13 mm - 52 mm			GDV14 (CLASS H)		
INSTALLATION	As required, preferably with actuator upright					
PROTECTION DEGREE	IP 65 EN 60529 (DIN 40050) with connector					

- MOPD values are referred to "standard power" coil range. Please refer to coil chapter.

MATERIALS

BODY	Brass UNI EN 12165 CW617N, Stainless steel AISI 316
ORIFICE*	≤ 3 mm Stainless steel AISI series 300 > 3 mm Brass - UNI EN 12165 CW617N
ARMATURE TUBE	Stainless steel AISI series 300
FIXED CORE	Stainless steel AISI series 400
PLUNGER	Stainless steel AISI series 400
PHASE DISPLACEMENT RING	Copper (Cu 99,9%) or Gold plated copper
SPRING	Stainless steel AISI series 300
SEALING	V=FKM, B=NBR, E=EPDM, F=HNBR, R=RUBY, T=PTFE O-R flange sealing are made of VMQ

- Orifice for valves with AISI 316 body is in AISI 316 material.

- **CE**
  - 2014/35/EU (LVD)
  - 2014/30/EU (EMC)
  - 2014/68/EU (PED)

  art. 4.3 up to 1"
- **INDUSTRIAL OXYGEN**
  Special versions suitable for contact with industrial oxygen are available. Please refer to codification options.
- **UL** regognized and **VDE**
  approved coils are available for this series, please refer to coil section.
- **EXPLOSION PROOF COILS**
  suitable for zone 2-22 are available for this series. Please refer to ATEX coil section for further details.

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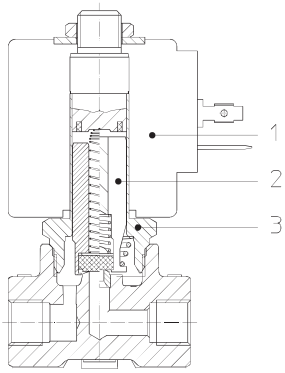
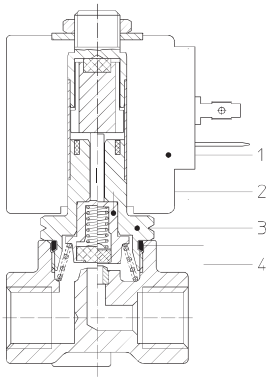
- The fluids listed in the "technical data" tables should be considered as a recommendation. Please check the chemical compatibility of the fluids with the materials of the valve at RFQ stage.
- G type thread in accordance with ISO 228/1.
- For spare parts list please refer to the dedicated chapter.

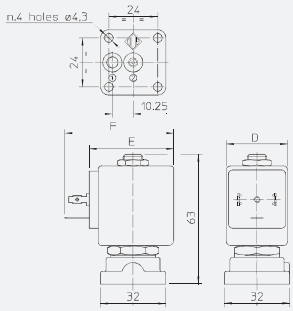
2/2 NC



2/2 NO



DRAWING 1



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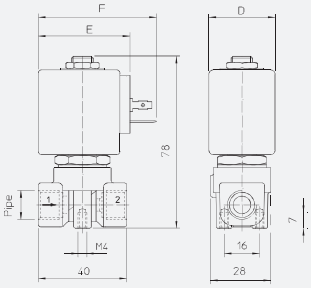

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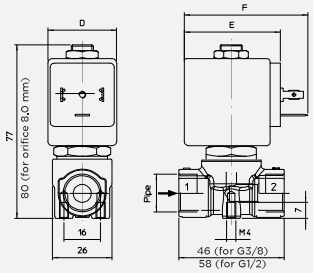
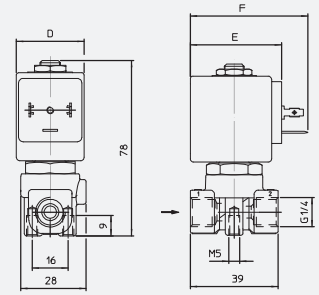
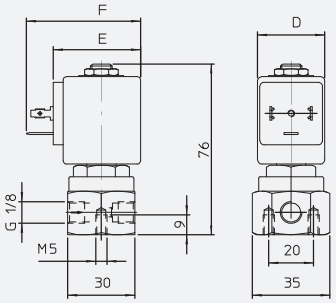


COIL SERIES	DIMENSIONS [mm]		
	D	E	F
BDA08, BDV08	30	42	54
UDV16	36	48	60
GDV14	52	55	67

DRAWING 4



DRAWING 5



PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	1	0,45	B**08	0	35	35	40	21A3KV10	-	2 (brass), 5 (stst)
			UDV16	0	35	35	40	21A3KV10	-	2 (brass), 5 (stst)
			GDV14	0	-	-	40	21A3KV10	-	2 (brass), 5 (stst)
	1,5	1,4	B**08	0	30	18	40	21A3KV15	-	2 (brass), 5 (stst)
			UDV16	0	-	-	40	21A3KV15	-	2 (brass), 5 (stst)
			GDV14	0	-	-	40	21A3KV15	-	2 (brass), 5 (stst)
	2	2	B**08	0	22	16	40	21A3KV20	-	2 (brass), 5 (stst)
			UDV16	0	35	30	40	21A3KV20	-	2 (brass), 5 (stst)
			GDV14	0	35	30	40	21A3KV20	-	2 (brass), 5 (stst)
	2,5	3,2	B**08	0	14	9	40	21A3KV25	21L1K1V25	2 (brass), 5 (stst)
			UDV16	0	30	25	40	21A3KV25	21L1K1V25	2 (brass), 5 (stst)
			GDV14	0	30	25	40	21A3KV25	21L1K1V25	2 (brass), 5 (stst)
	3	4	B**08	0	10	6	40	21A3KV30	21L1K1V30	2 (brass), 5 (stst)
			UDV16	0	25	18	40	21A3KV30	21L1K1V30	2 (brass), 5 (stst)
			GDV14	0	25	20	40	21A3KV30	21L1K1V30	2 (brass), 5 (stst)
	4	5	B**08	0	6	1,7	40	-	21L1K1V40	2 (brass), 5 (stst)
			UDV16	0	15	6	40	-	21L1K1V40	2 (brass), 5 (stst)
			GDV14	0	15	8	40	-	21L1K1V40	2 (brass), 5 (stst)
	4,5	6,5	B**08	0	5	2	40	21A3KV45	-	2 (brass), 5 (stst)
			UDV16	0	12	7	40	21A3KV45	-	2 (brass), 5 (stst)
			GDV14	0	12	8	40	21A3KV45	-	2 (brass), 5 (stst)
G1/4	1	0,45	B**08	0	35	35	40	21A2KV10	-	2 (brass), 4 (stst)
			UDV16	0	35	35	40	21A2KV10	-	2 (brass), 4 (stst)
			GDV14	0	-	-	40	21A2KV10	-	2 (brass), 4 (stst)
	1,5	1,4	B**08	0	30	18	40	21A2KV15	-	2 (brass), 4 (stst)
			UDV16	0	-	-	40	21A2KV15	-	2 (brass), 4 (stst)
			GDV14	0	-	-	40	21A2KV15	-	2 (brass), 4 (stst)
	2	2	B**08	0	22	16	40	21A2KV20	-	2 (brass), 4 (stst)
			UDV16	0	35	30	40	21A2KV20	-	2 (brass), 4 (stst)
			GDV14	0	35	30	40	21A2KV20	-	2 (brass), 4 (stst)
	2,5	3,2	B**08	0	14	9	40	21A2KV25	21L2K1V25	2 (brass), 4 (stst)
			UDV16	0	30	25	40	21A2KV25	21L2K1V25	2 (brass), 4 (stst)
			GDV14	0	30	25	40	21A2KV25	21L2K1V25	2 (brass), 4 (stst)
	3	4	B**08	0	10	6	40	21A2KV30	21L2K1V30	2 (brass), 4 (stst)
			UDV16	0	25	18	40	21A2KV30	21L2K1V30	2 (brass), 4 (stst)
			GDV14	0	25	10	40	21A2KV30	21L2K1V30	2 (brass), 4 (stst)
	4	5	B**08	0	6	1,7	40	-	21L2K1V40	2 (brass), 4 (stst)
			UDV16	0	15	6	40	-	21L2K1V40	2 (brass), 4 (stst)
			GDV14	0	15	8	40	-	21L2K1V40	2 (brass), 4 (stst)
	4,5	6,5	B**08	0	5	2	40	21A2KV45	-	2 (brass), 4 (stst)
			UDV16	0	12	7	40	21A2KV45	-	2 (brass), 4 (stst)
			GDV14	0	12	8	40	21A2KV45	-	2 (brass), 4 (stst)
	5,5	9	B**08	0	3	1	40	21A2KV55	21L2K1V55	2 (brass), 4 (stst)
			UDV16	0	7	2,5	40	21A2KV55	21L2K1V55	2 (brass), 4 (stst)
			GDV14	0	10	5	40	21A2KV55	21L2K1V55	2 (brass), 4 (stst)
G3/8	4,5	6,5	B**08	0	5	2	40	21A5KV45	-	3
			UDV16	0	12	7	40	21A5KV45	-	3
			GDV14	0	12	8	40	21A5KV45	-	3
	5,5	9	B**08	0	3	1	40	21A5KV55	-	3
			UDV16	0	7	2,5	40	21A5KV55	-	3
			GDV14	0	10	5	40	21A5KV55	-	3
G1/2	4,5	6,5	B**08	0	5	2	40	21A8KV45	-	3
			UDV16	0	12	7	40	21A8KV45	-	3
			GDV14	0	12	8	40	21A8KV45	-	3
	5,5	9	B**08	0	3	1	40	21A8KV55	-	3
			UDV16	0	7	2,5	40	21A8KV55	-	3
			GDV14	0	10	5	40	21A8KV55	-	3
Flange conn.	1	0,45	B**08	0	35	35	40	21A1KV10	-	1
			UDV16	0	-	-	40	21A1KV10	-	1
			GDV14	0	-	-	40	21A1KV10	-	1
	1,5	1,4	B**08	0	30	18	40	21A1KV15	21ALBK1V15	1
			UDV16	0	-	-	40	21A1KV15	21ALBK1V15	1
			GDV14	0	-	-	40	21A1KV15	21ALBK1V15	1
	2	2	B**08	0	22	16	40	21A1KV20	21ALBK1V20	1
			UDV16	0	35	30	40	21A1KV20	21ALBK1V20	1
			GDV14	0	35	30	40	21A1KV20	21ALBK1V20	1
	2,5	3,2	B**08	0	14	9	40	21A1KV25	21ALBK1V25	1
			UDV16	0	30	25	40	21A1KV25	21ALBK1V25	1
			GDV14	0	30	25	40	21A1KV25	21ALBK1V25	1
	3	4	B**08	0	10	6	40	21A1KV30	21ALBK1V30	1
			UDV16	0	25	18	40	21A1KV30	21ALBK1V30	1
			GDV14	0	25	20	40	21A1KV30	21ALBK1V30	1

- For sealing different from FKM, replace the letter "V" with the ones corresponding to the other seals.
  Brass Body: **V**=FKM, **B**=NBR, **E**=EPDM, **F**=HNBR.
  Stainless Steel Body: **V**=FKM, **E**=EPDM.
- Base O-Rings for flange connection versions are in VMQ material.

2/2 NC PTFE SEALING

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	1	0,45	B**08	0	100	90	100	21A3KT10	-	2
	1,5	1,4	B**08	0	35	15	40	21A3KT15	-	2
	2	2	B**08	0	22	16	40	21A3KT20	-	2
	2,5	3,2	B**08	0	14	9	40	21A3KT25	21L1K1T25	2 (brass), 5 (stst)
			UDV16	0	30	25	40	-	21L1K1T25	2 (brass), 5 (stst)
			GDV14	0	30	25	40	21A3KT25	21L1K1T25	2 (brass), 5 (stst)
	3	4	B**08	0	10	6	40	21A3KT30	21L1K1T30	2 (brass), 5 (stst)
			UDV16	0	25	17	40	-	21L1K1T30	2 (brass), 5 (stst)
			GDV14	0	25	20	40	21A3KT30	21L1K1T30	2 (brass), 5 (stst)
	4	5	B**08	0	10	2,5	40	-	21L1K1T40	2 (brass), 5 (stst)
			UDV16	0	15	6	40	-	21L1K1T40	2 (brass), 5 (stst)
			GDV14	0	15	8	40	-	21L1K1T40	2 (brass), 5 (stst)
	4,5	6,5	B**08	0	5	1,5	40	21A3KT45	-	2
			UDV16	0	10	3,5	40	21A3KT45	-	2
			GDV14	0	12	6	40	21A3KT45	-	2
G1/4	1	0,45	B**08	0	100	90	100	21A2KT10	-	2
	1,5	1,4	B**08	0	35	15	40	21A2KT15	-	2
	2	2	B**08	0	22	16	40	21A2KT20	-	2
			GDV14	0	35	30	40	21A2KT20	-	2
	2,5	3,2	B**08	0	14	5	40	21A2KT25	21L2K1T25	2 (brass), 4 (stst)
			UDV16	0	30	25	40	21A2KT25	21L2K1T25	2 (brass), 4 (stst)
			GDV14	0	30	25	40	21A2KT25	21L2K1T25	2 (brass), 4 (stst)
	3	4	B**08	0	10	6	40	21A2KT30	21L2K1T30	2 (brass), 4 (stst)
			UDV16	0	25	17	40	21A2KT30	21L2K1T30	2 (brass), 4 (stst)
			GDV14	0	25	20	40	21A2KT30	21L2K1T30	2 (brass), 4 (stst)
	4	5	B**08	0	10	2,5	40	-	21L2K1T40	2 (brass), 4 (stst)
			UDV16	0	15	6	40	-	21L2K1T40	2 (brass), 4 (stst)
			GDV14	0	15	8	40	-	21L2K1T40	2 (brass), 4 (stst)
	4,5	6,5	B**08	0	5	1,5	40	21A2KT45	-	2
			UDV16	0	10	3,5	40	21A2KT45	-	2
			GDV14	0	12	6	40	21A2KT45	-	2
	5,5	9	B**08	0	3,5	1	40	21A2KT55	21L2K1T55	2 (brass), 4 (stst)
			UDV16	0	6	2	40	21A2KT55	21L2K1T55	2 (brass), 4 (stst)
			GDV14	0	7	5	40	21A2KT55	21L2K1T55	2 (brass), 4 (stst)
G3/8	4,5	6,5	B**08	0	5	1,5	40	21A5KT45	-	3
			UDV16	0	10	3,5	40	21A5KT45	-	3
			GDV14	0	12	6	40	21A5KT45	-	3
	5,5	9	B**08	0	3,5	1	40	21A5KT55	-	3
			UDV16	0	6	2	40	21A5KT55	-	3
			GDV14	0	7	5	40	21A5KT55	-	3
G1/2	4,5	6,5	B**08	0	5	1,5	40	21A8KT45	-	3
			UDV16	0	10	3,5	40	21A8KT45	-	3
			GDV14	0	12	6	40	21A8KT45	-	3
	5,5	9	B**08	0	3,5	1	40	21A8KT55	-	3
			UDV16	0	6	2	40	21A8KT55	-	3
			GDV14	0	7	5	40	21A8KT55	-	3

2/2 NC RUBY SEALING

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	POWER RANGE	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	1	0,45	B**08	0	40	23	40	21A3KR10	-	2
	1,5	1,4	B**08	0	35	15	40	21A3KR15	-	2
	2	2	B**08	0	25	9	40	21A3KR20	-	2
	2,5	3,2	B**08	0	14	5	40	21A3KR25	-	2
			UDV16	0	30	-	40	21A3KR25	-	2
	3	4	B**08	0	10	4	40	21A3KR30	-	2
			UDV16	0	30	22	40	21A3KR30	-	2
			GDV14	0	-	-	40	21A3KR30	-	2
G1/4	1,1	0,7	B**08	0	40	-	40	21A2KR11	-	2
	1,5	1,4	B**08	0	35	15	40	21A2KR15	-	2
	2	2	B**08	0	25	9	40	21A2KR20	-	2
	2,5	3,2	B**08	0	14	5	40	21A2KR25	-	2
			UDV16	0	30	-	40	21A2KR25	-	2
	3	4	B**08	0	10	4	40	21A2KR30	-	2
			UDV16	0	30	-	40	21A2KR30	-	2
			GDV14	0	-	22	40	21A2KR30	-	2
FLANGE CONN.	1	0,45	B**08	0	40	23	40	21A1KR10	-	1
	1,5	1,4	B**08	0	30	15	40	21A1KR15	-	1
	2	2	B**08	0	25	9	40	21A1KR20	-	1
	2,5	3,2	B**08	0	14	5	40	21A1KR25	-	1
			UDV16	0	30	-	40	21A1KR25	-	1
	3	4	B**08	0	10	4	40	21A1KR30	-	1
			UDV16	0	-	-	40	21A1KR30	-	1
			GDV14	0	30	22	40	21A1KR30	-	1

- The use of rigid sealings usually implies a slight leakage, limited within 300 cm3/h of air at the pressure of 10 bar.
- Base O-Rings for flange connection versions are in VMQ material.

2/2 NC SOFT SEALING IMPROVED PRESSURE RANGE

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	3	4	B**08	0	18	13	40	21A3KV30-W	-	2
			UDV16	0	30	25	40	21A3KV30-W	-	2
			GDV14	0	25	25	40	21A3KV30-W	-	2
	4	5	B**08	0	8	-	40	-	21L1K1V40-W	2 (brass), 5 (stst)
	4,5	6,5	B**08	0	10	5	40	21A3KV45-W	-	2
			UDV16	0	17	8	40	21A3KV45-W	-	2
			GDV14	0	18	16	40	21A3KV45-W	-	2
G1/4	2,5	3,2	B**08	0	35	20	40	21A2K0V25-W	21L2K1V25-W	2 (brass), 4 (stst)
			UDV16	0	35	35	40	-	21L2K1V25-W	2 (brass), 4 (stst)
	3	4	B**08	0	18	13	40	21A2KV30-W	-	2
			UDV16	0	25	25	40	21A2KV30-W	-	2
			GDV14	0	25	25	40	21A2KV30-W	-	2
	4,5	6,5	B**08	0	10	5	40	21A2KV45-W	-	2
			UDV16	0	17	8	40	21A2KV45-W	-	2
			GDV14	0	18	10	40	21A2KV45-W	-	2
	5,5	9	B**08	0	7	2	40	21A2KV55-W	21L2K1V55-W	2 (brass), 4 (stst)
			UDV16	0	10	3,5	40	21A2KV55-W	21L2K1V55-W	2 (brass), 4 (stst)
			GDV14	0	13	7	40	21A2KV55-W	21L2K1V55-W	2 (brass), 4 (stst)
G3/8	4,5	6,5	B**08	0	10	5	40	21A5KV45-W	-	3
			UDV16	0	17	8	40	21A5KV45-W	-	3
			GDV14	0	18	10	40	21A5KV45-W	-	3
	5,5	9	B**08	0	7	2	40	21A5KV55-W	-	3
			UDV16	0	10	3,5	40	21A5KV55-W	-	3
			GDV14	0	13	7	40	21A5KV55-W	-	3
G1/2	4,5	6,5	B**08	0	10	5	40	21A8KV45-W	-	3
			UDV16	0	17	8	40	21A8KV45-W	-	3
			GDV14	0	18	10	40	21A8KV45-W	-	3
	5,5	9	B**08	0	7	2	40	21A8KV55-W	-	3
			UDV16	0	10	3,5	40	21A8KV55-W	-	3
			GDV14	0	13	7	40	21A8KV55-W	-	3
	8	15	B**08	0	1	0,5	40	21A8KV80-W	-	3
			GDV14	0	-	1,5	40	21A8KV80-W	-	3
FLANGE CONN.	3	4	B**08	0	18	13	40	21A1KV30-W	-	1
	4	5	B**08	0	8	5	40	-	21ALBK1V40-W	1
	4,5	6,5	B**08	0	10	5	40	21A1K1V45-W	-	1
			UDV16	0	17	8	40	21A1K1V45-W	-	1
			GDV14	0	18	10	40	21A1K1V45-W	-	1

- For sealing different from FKM, replace the letter "V" with the ones corresponding to the other seals.
  Brass Body: **V**=FKM, **B**=NBR, **E**=EPDM.
  Stainless Steel Body: **V**=FKM, **E**=EPDM.
- Base O-Rings for flange connection versions are in VMQ material.

2/2 NC PTFE SEALING IMPROVED PRESSURE RANGE

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/4	2,5	3,2	UDV16	0	40	30	40	-	21L2K1T25-W	2 (brass), 4 (stst)
	3	4	B**08	0	18	13	40	21A2KT30-W	-	2
	4,5	6,5	B**08	0	10	3,5	40	21A2KT45-W	-	2
			UDV16	0	11	8	40	21A2KT45-W	-	2
			GDV14	0	13	-	40	21A2KT45-W	-	2
	5,5	9	B**08	0	6	2	40	21A2KT55-W	21L2K1T55-W	2 (brass), 4 (stst)
G3/8	4,5	6,5	B**08	0	10	3,5	40	21A5KT45-W	-	3
			UDV16	0	11	8	40	21A5KT45-W	-	3
			GDV14	0	13	-	40	21A5KT45-W	-	3
	5,5	9	B**08	0	6	2	40	21A5KT55-W	-	3
G1/2	4,5	6,5	B**08	0	10	3,5	40	21A8KT45-W	-	3
			UDV16	0	11	8	40	21A8KT45-W	-	3
			GDV14	0	13	-	40	21A8KT45-W	-	3
	5,5	9	B**08	0	6	2	40	21A8KT55-W	-	3

- The use of rigid sealings usually implies a slight leakage, limited within 300 cm3/h of air at the pressure of 10 bar.

2/2 NO SOFT SEALING

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	1	0,45	0	0	30	30	40	21A3ZV10D	-	2
	1,2	1	B**08	0	30	30	40	21A3ZV12D	-	2
	1,5	1,4	B**08	0	25	25	40	21A3ZV15D	21L1Z1V15D	2 (brass), 5 (stst)
	2	2	B**08	0	20	20	40	21A3ZV20D	-	2
			UDV16	0	30	30	40	21A3ZV20G	-	2
			GDV14	0	30	30	40	21A3ZV20G	-	2
	2,5	3,2	B**08	0	14	14	40	21A3ZV25D	-	2
			UDV16	0	17	17	40	21A3ZV25G	-	2
			GDV14	0	17	17	40	21A3ZV25G	-	2
	3	4	B**08	0	10	10	40	21A3ZV30D	21L1Z1V30D	2 (brass), 5 (stst)
			UDV16	0	15	15	40	21A3ZV30G	-	2
			GDV14	0	15	15	40	21A3ZV30G	-	2
	4,5	6,5	B**08	0	4	4	40	21A3ZV45D	-	2
			UDV16	0	6	-	40	21A3ZV45G	-	2
			GDV14	0	6	6	40	21A3ZV45G	-	2
G1/4	1,2	1	B**08	0	30	30	40	21A2ZV12D	-	2
	1,5	1,4	B**08	0	25	25	40	21A2ZV15D	-	2
	2	2	B**08	0	20	20	40	21A2ZV20D	-	2
			UDV16	0	30	30	40	21A2ZV20G	-	2
			GDV14	0	30	30	40	21A2ZV20G	-	2
	2,5	3,2	B**08	0	14	14	40	21A2ZV25D	-	2
			UDV16	0	17	17	40	21A2ZV25G	-	2
			GDV14	0	17	17	40	21A2ZV25G	-	2
	3	4	B**08	0	10	10	40	21A2ZV30D	21L2Z1V30D	2 (brass), 4 (stst)
			UDV16	0	15	15	40	21A2ZV30G	21L2Z1V30G	2 (brass), 4 (stst)
			GDV14	0	15	15	40	21A2ZV30G	21L2Z1V30G	2 (brass), 4 (stst)
	4,5	6,5	B**08	0	4	4	40	21A2ZV45D	-	2
			UDV16	0	6	-	40	21A2ZV45G	-	2
			GDV14	0	6	6	40	21A2ZV45G	-	2
	5,5	9	B**08	0	2,5	2,5	40	21A2ZV55D	21L2Z1V55D	2 (brass), 4 (stst)
			UDV16	0	3,5	3,5	40	21A2ZV55G	21L2Z1V55G	2 (brass), 4 (stst)
			GDV14	0	3,5	3,5	40	21A2ZV55G	21L2Z1V55G	2 (brass), 4 (stst)
G3/8	4,5	6,5	B**08	0	4	4	40	21A5ZV45D	-	3
			UDV16	0	6	-	40	21A5ZV45G	-	3
			GDV14	0	6	6	40	21A5ZV45G	-	3
	5,5	9	B**08	0	2,5	2,5	40	21A5ZV55D	-	3
			UDV16	0	3,5	3,5	40	21A5ZV55G	-	3
			GDV14	0	3,5	3,5	40	21A5ZV55G	-	3
G1/2	4,5	6,5	B**08	0	4	4	40	21A8ZV45D	-	3
			UDV16	0	6	-	40	21A8ZV45G	-	3
			GDV14	0	6	6	40	21A8ZV45G	-	3
	5,5	9	B**08	0	2,5	2,5	40	21A8ZV55D	-	3
			UDV16	0	3,5	3,5	40	21A8ZV55G	-	3
			GDV14	0	3,5	3,5	40	21A8ZV55G	-	3
FLANGE CONN.	1,5	1,4	B**08	0	25	25	40	21A1ZV15D	-	1
	2	2	B**08	0	20	20	40	21A1zV20D	-	1
			UDV16	0	30	30	40	21A1zV20G	-	1
			GDV14	0	30	30	40	21A1zV20G	-	1
	2,5	3,2	B**08	0	14	14	40	21A1ZV25D	-	1
			UDV16	0	17	17	40	21A1ZV25G	-	1
			GDV14	0	17	17	40	21A1ZV25G	-	1
	3	4	B**08	0	10	10	40	21A1ZV30D	-	1
			UDV16	0	15	15	40	21A1ZV30G	-	1
			GDV14	0	15	15	40	21A1ZV30G	-	1

- For sealing different from FKM, replace the letter "V" with the ones corresponding to the other seals.
  Brass Body: **V**=FKM, **B**=NBR, **E**=EPDM, **F**=HNBR.
  Stainless Steel Body: **V**=FKM, **E**=EPDM.
- Base O-Rings for flange connection versions are in VMQ material.

2/2 NO PTFE SEALING

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	2	2	B**08	0	30	30	40	21A3ZT20D	-	2
G1/4	1,1	0,7	B**08	0	90	90	100	21A2ZT11D	-	2
	2,5	3,2	B**08	0	16	16	40	21A2ZT25D	-	2
	3	4	B**08	0	6	6	40	-	21L2Z1T30D	4
	4	5	B**08	0	6	-	40	-	21L2Z1T40D	4
	4	5	GDV14	0	8	-	40	-	21L2Z1T40G	4
G3/8	4,5	6	GDV14	0	6,5	-	40	21A5ZT45G	-	3
FLANGE CONN.	1,1	0,7	B**08	0	90	90	100	21A1ZT11D	-	1

- Base O-Rings for flange connection versions are in VMQ material.
- The use of rigid sealings usually implies a slight leakage, limited within 300 cm3/h of air at the pressure of 10 bar.

2/2 NO RUBY SEALING

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	1,5	1,4	B**08	0	35	35	40	21A3ZR15D	-	2
	2	2	B**08	0	30	30	40	21A3ZR20D	-	2
	2,5	3,2	B**08	0	16	16	40	21A3ZR25D	-	2
			UDV16	0	17	17	40	21A3ZR25G	-	2
			GDV14	0	17	17	40	21A3ZR25G	-	2
	3	4	B**08	0	10	10	40	21A3ZR30D	-	2
			UDV16	0	15	15	40	21A3ZR30G	-	2
			GDV14	0	15	15	40	21A3ZR30G	-	2
G1/4	1,5	1,4	B**08	0	35	35	40	21A2ZR15D	-	2
	2	2	B**08	0	30	30	40	21A2ZR20D	-	2
	2,5	3,2	B**08	0	16	16	40	21A2ZR25D	-	2
			UDV16	0	17	17	40	21A2ZR25G	-	2
			GDV14	0	17	17	40	21A2ZR25G	-	2
	3	4	B**08	0	10	10	40	21A2ZR30D	-	2
			UDV16	0	15	15	40	21A2ZR30G	-	2
			GDV14	0	15	15	40	21A2ZR30G	-	2
FLANGE CONN.	1,1	0,7	B**08	0	40	40	40	21A1ZR11D	-	1
	1,5	1,4	B**08	0	35	35	40	21A1ZR15D	-	1
	1,5	1,4	GDV14	0	35	35	40	21A1ZR15G	-	1
	2	2	B**08	0	30	30	40	21A1ZR20D	-	1

2/2 NC HIGH PRESSURE

PIPE	ORIFICE SIZE [mm]	Kv [l/min]	POWER RANGE	PRESSURE [bar]				CODE		DRAWING REF.
				MIN.	MOPD		PS	BRASS	STAINLESS STEEL	
					AC	DC				
G1/8	1,2	1	B**08	0	100	90	100	21A3K0T12-XC		2
			UDV16	0	100	100	100	21A3K0T12-XC		2
			GDV14	0	-	-	100	21A3K0T12-XC		2
	1,5	1,5	B**08	0	90	60	100	-	21L1K1T15-XC	5
			UDV16	0	100	60	100	-	21L1K1T15-XC	5
			GDV14	0	100	100	100	-	21L1K1T15-XC	5
G1/4	1	1	B**08	0	100	90	100	21A2K0T10-XC		2
			UDV16	0	100	100	100	21A2K0T10-XC		2
			GDV14	0	-	-	100	21A2K0T10-XC		2
	1,2	1	B**08	0	100	90	100	21A2K0T12-XC		2
			UDV16	0	100	100	100	21A2K0T12-XC		2
			GDV14	0	-	-	100	21A2K0T12-XC		2
	1,2	1	B**08	0	-	-	130	21A2K0R12-XC		2
			UDV16	0	-	-	130	21A2K0R12-XC		2
			GDV14	0	130	130	130	21A2K0R12-XC		2
	1,5	1,5	B**08	0	90	60	100	-	21L2K1T15-XC	4
			UDV16	0	100	60	100	-	21L2K1T15-XC	4
			GDV14	0	100	100	100	-	21L2K1T15-XC	4
	2	2	B**08	0	37	17	40	21A2K0R20-XC		2
			UDV16	0	40	23	40	21A2K0R20-XC		2
			GDV14	0	-	-	40	21A2K0R20-XC		2
	2,5	3,2	B**08	0	30	12	40	21A2K0R25-XC		2
			UDV16	0	-	-	40	21A2K0R25-XC		2
			GDV14	0	-	-	40	21A2K0R25-XC		2
	3	4	B**08	0	25	8	40	21A2K0R30-XC		2
			UDV16	0	-	-	40	21A2K0R30-XC		2
			GDV14	0	-	-	40	21A2K0R30-XC		2
FLANGE CONN.	1,2	1	B**08	0	100	90	130	21A1K0T12-XC	21ALBK1T12-XC	1
			UDV16	0	100	100	130	21A1K0T12-XC	21ALBK1T12-XC	1
			GDV14	0	-	-	130	21A1K0T12-XC	21ALBK1T12-XC	1
	1,5	1,5	B**08	0	90	60	100	21A1K0T15-XC		1
			UDV16	0	100	100	100	21A1K0T15-XC		1
			GDV14	0	100	100	100	21A1K0T15-XC		1
	3	4	B**08	0	14	8	100	21A1K0T30-XC		1
			UDV16	0	27	16	100	21A1K0T30-XC		1
			GDV14	0	-	-	100	21A1K0T30-XC		1

- The use of rigid sealings usually implies a slight leakage, limited within 300 cm3/h of air at the pressure of 10 bar.
- Base O-Rings for flange connection versions are in VMQ material.

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X		XI
2	1		A	2	K		V	30		-	

I. NUMBER OF WAYS
2 - 2 - way

II. NUMBER OF ELEMENTS
1 - 1 element

III. ARMATURE TUBE MATERIAL
Blank - std. material
6 - AISI 316 (optional, valid for NC versions, brass body only)

IV. SERIES TYPE
A - brass body
L - StSt body
AL - StSt body with flange connection

V. CONNECTIONS
for A series
1 - flange connection
3 - G1/8
2 - G1/4
5 - G3/8
8 - G1/2
for L series
1 - G1/8
2 - G1/4
for AL series
B - flange connection

VI. CORE TUBE TYPE
K - for 2/2 NC valves
Z - for 2/2 NO valves

VII. PHASE DISP. RING MATERIAL
0 or blank - copper
1 - gold plated copper

VIII. SEALING MATERIAL
V - FKM
E - EPDM
B - NBR
F - HNBR
R - RUBY
T - PTFE

IX. ORIFICE Ø MULTIPLIED BY 10

X. COIL IDENTIFICATION
Blank - std. for NC
D - B**08 coil, only for 2/2 NO valves
G - UDV16 and GDV14 coils, only for 2/2 NO valves

XI. OPTIONS
W - variable pitch spring or double spring, improved pressure range
XC - special plunger for high pressure range
OX - Degreased version for industrial oxygen use.
OR - O-ring sealing between body and armature tube
N - nickel plated body
M - manual operator
ORV - flange O-Rings in FKM material
ORT - flange O-Rings in PTFE material

OPTIONS AVAILABILITY

OPTION	VALVE TYPE	BODY MATERIAL	SEALING MATERIAL	VALVE SIZE/CONNECTIONS					NOTES
				G1/8	G1/4	G3/8	G1/2	FLANGE CONN.	
W	NC	Brass & StSt	V, B, E, T	X	X	X	X	X	Ref. to improved pressure range valves' table for performances
XC	NC	Brass & StSt	R, T	X	X			X	Ref. to high pressure valves' table for performances
OX	NC & NO	Brass & StSt	V	X	X	X	X		PS & MOPD limited to 25 bar. Shall not be used as safety valves
OR	NC	Brass	V, B, E, F, T	X	X	X	X	X	
N	NC & NO	Brass	V, B, E, F, T	X	X	X	X	X	G1/2 size with minimum order quantity
M	NC	Brass	V, B, E	X	X				
ORV	NC & NO	Brass & StSt	V, R, T					X	
ORT	NC & NO	Brass & StSt	R, T					X	

■ Please contact ODE if you wish to combine more options.