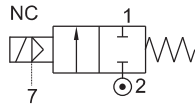
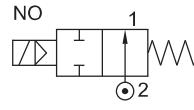


## 2/2 POPPET TYPE, INTERNAL/ EXTERNAL PILOT, NC/ NO SOLENOID VALVE

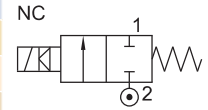
TYPE	PRESSURE
22101	0 - 20 bar



TYPE	PRESSURE
21201	0.7 - 10 bar
21202	1 - 20 bar
21203	2 - 40 bar



TYPE	PRESSURE
21101	0.7 - 10 bar
21102	1 - 20 bar
21103	2 - 40 bar

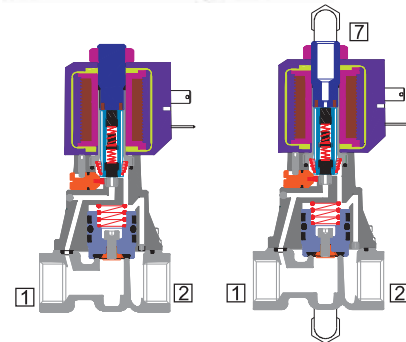


### FEATURES

- Bubble tight shut off
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 400 cycles/ min

### WETTED PARTS

Code	B12	B13
Body	CF8M	CF8
Internals	SS316	SS316
Guide Assembly	SS 304	
Shadow-Ring	Copper/ Silver/ None	
Plunger, Insert	SS 430	
Spring	SS 302	
Seat, Seals	NBR, Viton, EPDM	
Fasteners	SS 304	



### AMBIENT AND FLUID TEMPERATURE

-30 °C to 75 °C

### SPECIAL VERSION AND SUFFIX

Suffix : (Valve) OX, AM, LC  
Special version : (Solenoid) CO, FR, SS, LC, III, TM

### MEDIA

Air, Inert Gases, Water, Free Flowing Liquid, Oil, Diesel, Kerosene, LPG

### APPLICATION

High ON/ OFF Cycles

### PORT CONNECTION

ACTION	INLET	OUTLET	EXTERNAL PILOT INLET
NC	2	1	7
NO	2	1	

Contact Rotex for

- Any other ambient, fluid temperature, media and application
- UL listed, Listed general purpose Valve
- PED approved valve Orifice 25mm & Higher



For Valve type 22101 External pilot pressure should be minimum 2 bar or ≥ Main pressure whichever is higher.  
OIL Media Temperature Restricted from 0 °C to 100 °C

### SPARES

(Refer page 25 for ordering code)

SPARE KIT	CODE
Seal Kit : Oring Set and Plunger Assembly	98
Repair Kit : Oring Set, Plunger Assembly, Springs, Manual Override, Piston Kit, Guide Assembly	99
Solenoid Kit : Solenoid, Gasket	34

### APPROVAL

(\* applied for)

Approval	TYPE 4X, 6P	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
			✓	✓		
EAC			✓	✓		
			✓	✓		



## 2/2 POPPET TYPE, INTERNAL/ EXTERNAL PILOT, NC/ NO SOLENOID VALVE

### SPECIFICATION

PORT CONNECTION	PRE-SSURE bar	ORIFICE (mm)	VALVE TYPE	PILOT PRESSURE	BODY MATERIAL AND INTERNALS		SEALS				MANUAL OVERRIDE			SOLENOID ENCLOSURE			SUFFIX		POWER VA		CONSTRUCTION REFERENCE NUMBER					
					CF8M & SS316	CF8 & SS316	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SO. PLUG IN, IP67	TERMINAL BOX IP67	EXPLOSIONPROOF IIC, IP67	LARGE ENCLOSURE		SOLENOID SIZE	OXYGEN	AMMONIA	AC INRUSH	AC HOLDING
<b>2/2 NORMALLY CLOSED</b>																										
1/2"	4G	4R	0.7 10 12 60 21101		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	57
			1 20 12 60 21102		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	57
			0 20 12 60 22101	2-20	B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	57
			2 40 12 60 21103V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	57	
3/4"	6G	6R	0.7 10 20 110 21101		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	58
			1 20 20 110 21102		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	58
			0 20 20 110 22101	2-20	B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	58
			2 40 20 110 21103V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	58	
1"	8G	8R	0.7 10 25 185 21101V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	59
			1 20 25 185 21102V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	59
			0 20 25 185 22101V01	2-20	B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	59
			2 40 25 185 21103V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	59	
1 1/4"	10G	10R	0.7 10 40 400 21101		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	60
			1 20 40 400 21102		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	60
			0 20 40 400 22101	2-20	B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	60
			2 40 40 400 21103V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	60	
1 1/2"	12G	12R	0.7 10 40 440 21101		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	61
			1 20 40 440 21102		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	61
			0 20 40 440 22101	2-20	B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	61
			2 40 40 440 21103V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	61	
2"	16G	16R	0.7 10 50 650 21101V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	62
			1 20 50 650 21102V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	62
			0 20 50 650 22101V01	2-20	B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	62
			2 40 50 650 21103V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	62	
<b>2/2 NORMALLY OPEN</b>																										
1/2"	4G	4R	0.7 10 12 60 21201		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	63
			1 20 12 60 21202		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	63
			2 40 12 60 21203V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	63	
			0.7 10 20 110 21201		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	18	8	64
3/4"	6G	6R	1 20 20 110 21202		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	18	8	64
			2 40 20 110 21203V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	64	
			0.7 10 25 185 21201V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	18	8	65
			1 20 25 185 21202V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	65
1"	8G	8R	2 40 25 185 21203V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	65	
			0.7 10 40 400 21201		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	18	8	66
			1 20 40 400 21202		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	18	8	66
			2 40 40 400 21203V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	66	
1 1/2"	12G	12R	0.7 10 40 440 21201		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	67
			1 20 40 440 21202		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	67
			2 40 40 440 21203V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	67	
			0.7 10 50 650 21201V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	68
2"	16G	16R	1 20 50 650 21202V01		B12	B13	*	S2	S1			M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8	68
			2 40 50 650 21203V01		B12	B13	*	S2	S1		*			F	22	25	T	E	III	14	✓	18	12	8	68	

SOLENOID 14							
Cable Entry	T		E		F		
	Ex d	Ex ia	Ex ia	Ex emb	Flying lead IP54	Flying lead IP67	
M20 x 1.5	19	17MS	39	87MS	66MS	58MS	58LTMS
M25 x 1.5		17		87	66	58	58LT
1/2" NPT	16	17NS	37	87NS	66NS	58NS	58LTNS

F	*
Flying lead IP54	*
Flying lead IP67	01

\* = Do not specify when opted for. Refer Page #22 for Value of \*  
 ✓ = Options available  
 \* Valve type printed in red colour is external pilot air/ air operated valve

**1/2 POPPET TYPE, INTERNAL/ EXTERNAL PILOT, NC/ NO SOLENOID VALVE**

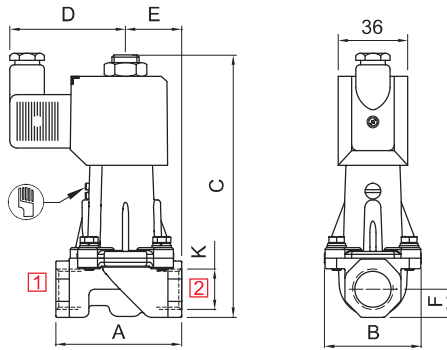
**ORDERING CODE VALVE + SOLENOID**

VALVE TYPE - SUFFIX - ORIFICE - PORT CONNECTION - BODY & INTERNALS - MANUAL OVERRIDE - SEAL - MEDIA + SIZE - VOLTAGE - CURRENT - SOLENOID ENCLOSURE - SPECIAL VERSION - POWER - INSULATION - APPROVAL

e.g. 21101-12-4G+I-12V-DC-22; 21101-20-6R+III-110V-DC-16-H

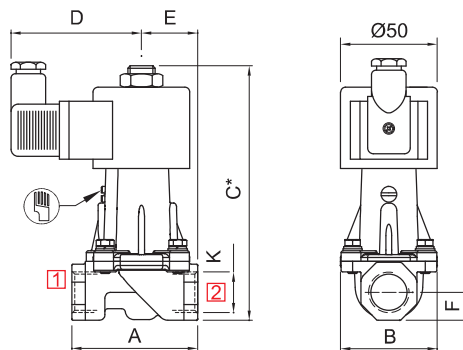
**DIMENSIONS**

All Dimensions are in mm



**PLUG IN SOLENOID TYPE 22**

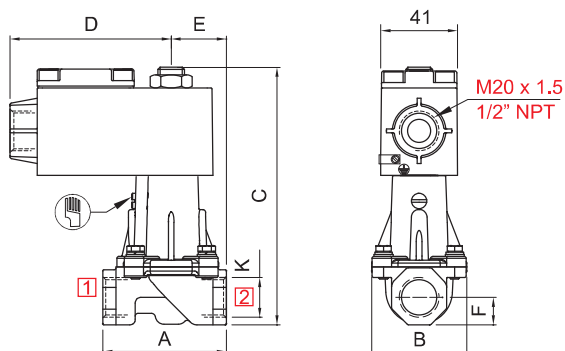
NW	K (PORT SIZE)	A	B	C	D	E	F	CONST. REF.
<b>VALVE TYPE : 21101, 21102, 22101</b>								
12	1/2", 3/8", 1/4"	65	50	140	60	29	15	57
20	1/2"	84	64	152	60	42	17	58
20	3/4"	84	64	152	60	42	17	58
25	1"	110	95	174	60	51	25	59
40	1 1/4"	135	94	191	60	66	30	60
40	1 1/2"	135	94	191	60	66	30	61
50	2"	165	170	215	60	76	38	62



**SQUARE PLUG IN SOLENOID TYPE 25**

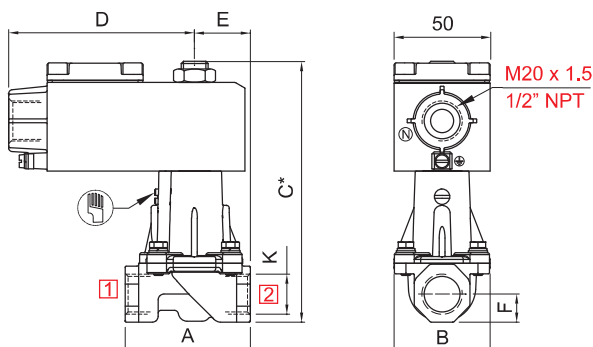
NW	K (PORT SIZE)	A	B	C*	D	E	F	CONST. REF.
<b>VALVE TYPE : 21101, 21102, 21103*, 22101</b>								
12	1/2", 3/8", 1/4"	65	50	140	68	29	15	57
20	1/2"	84	64	152	68	42	17	58
20	3/4"	84	64	152	68	42	17	58
25	1"	110	95	174	68	51	25	59
40	1 1/4"	135	94	191	68	66	30	60
40	1 1/2"	135	94	191	68	66	30	61
50	2"	165	170	215	68	76	38	62

\*C = C + 20 FOR VALVE TYPE 21103



**TERMINAL BOX/ Ex d ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT**

NW	K (PORT SIZE)	A	B	C	D	E	F	CONST. REF.
<b>VALVE TYPE : 21101, 21102, 22101</b>								
12	1/2", 3/8", 1/4"	65	50	140	85	29	15	57
20	1/2"	84	64	152	85	42	17	58
20	3/4"	84	64	152	85	42	17	58
25	1"	110	95	174	85	51	25	59
40	1 1/4"	135	94	191	85	66	30	60
40	1 1/2"	135	94	191	85	66	30	61
50	2"	165	170	215	85	76	38	62



**TERMINAL BOX/ Ex d LARGE ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT, LC**

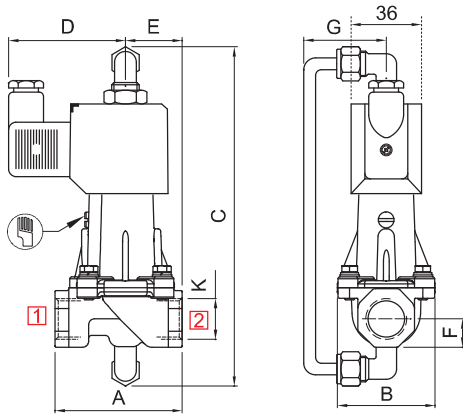
NW	K (PORT SIZE)	A	B	C*	D	E	F	CONST. REF.
<b>VALVE TYPE : 21101, 21102, 21103*, 21202</b>								
12	1/2", 3/8", 1/4"	65	50	140	97	29	15	57
20	1/2"	84	64	152	97	42	17	58
20	3/4"	84	64	152	97	42	17	58
25	1"	110	95	174	97	51	25	59
40	1 1/4"	135	94	191	97	66	30	60
40	1 1/2"	135	94	191	97	66	30	61
50	2"	165	170	215	97	76	38	62

\*C = C + 20 FOR VALVE TYPE 21103

## 2/2 POPPET TYPE, INTERNAL/ EXTERNAL PILOT, NC/ NO SOLENOID VALVE

### DIMENSIONS

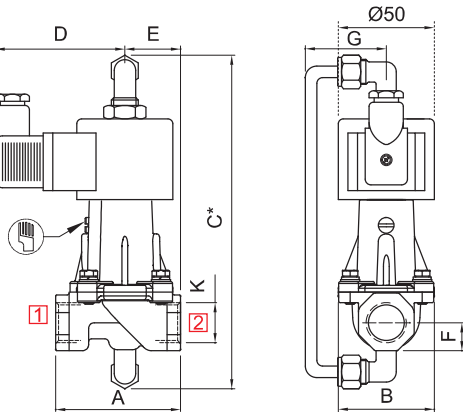
All Dimensions are in mm



#### PLUG IN SOLENOID TYPE 22

NW	K (PORT SIZE)	A	B	C	D	E	F	G	CONST. REF.
<b>VALVE TYPE : 21201, 21202, 21203*</b>									
12	1/2", 3/8", 1/4"	65	50	140	82	00	15	42	63
20	1/2"	84	64	152	82	00	17	48	64
20	3/4"	84	64	152	82	00	17	48	64
25	1"	110	95	174	82	00	25	61	65
40	1 1/4"	135	94	191	82	00	30	61	66
40	1 1/2"	135	94	191	82	00	30	61	67
50	2"	165	170	215	123	00	38	101	68

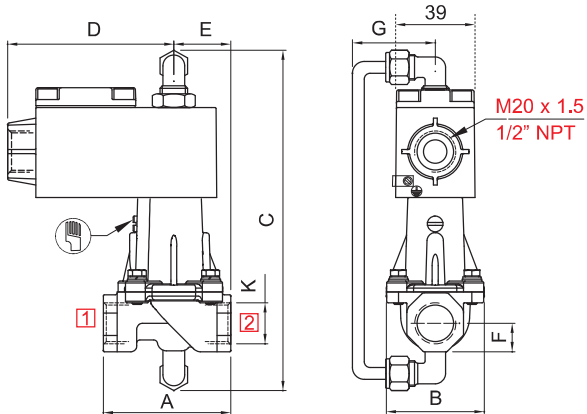
6



#### SQUARE PLUG IN SOLENOID TYPE 25

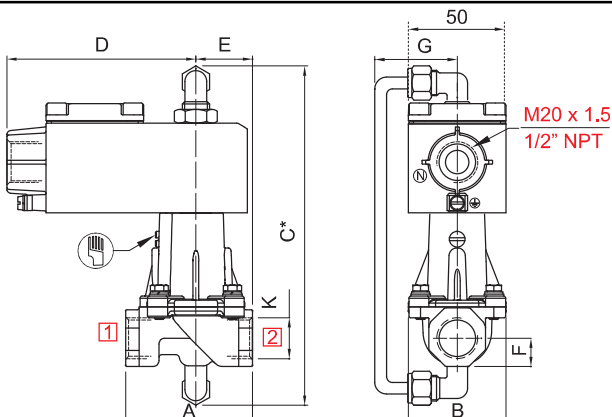
NW	K (PORT SIZE)	A	B	C*	D	E	F	G	CONST. REF.
<b>VALVE TYPE : 21201</b>									
12	1/2", 3/8", 1/4"	65	50	140	93	00	15	42	63
20	1/2"	84	64	152	93	00	17	48	64
20	3/4"	84	64	152	93	00	17	48	64
25	1"	110	95	174	93	00	25	61	65
40	1 1/4"	135	94	191	93	00	30	61	66
40	1 1/2"	135	94	191	93	00	30	61	67
50	2"	165	170	215	93	00	38	101	68

\*C = C + 20 FOR VALVE TYPE 21203



#### TERMINAL BOX/ Ex d ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT

NW	K (PORT SIZE)	A	B	C	D	E	F	G	CONST. REF.
<b>VALVE TYPE : 21201, 21202</b>									
12	1/2", 3/8", 1/4"	65	50	140	116	00	15	42	63
20	1/2"	84	64	152	116	00	17	48	64
20	3/4"	84	64	152	116	00	17	48	64
25	1"	110	95	174	116	00	25	61	65
40	1 1/4"	135	94	191	116	00	30	61	66
40	1 1/2"	135	94	191	116	00	30	61	67
50	2"	165	170	215	116	00	38	101	68



#### TERMINAL BOX/ Ex d LARGE ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT, LC

NW	K (PORT SIZE)	A	B	C*	D	E	F	G	CONST. REF.
<b>VALVE TYPE : 21201, 21202, 21203*</b>									
12	1/2", 3/8", 1/4"	65	50	140	123	00	15	42	63
20	1/2"	84	64	152	123	00	17	48	64
20	3/4"	84	64	152	123	00	17	48	64
25	1"	110	95	174	123	00	25	61	65
40	1 1/4"	135	94	191	123	00	30	61	66
40	1 1/2"	135	94	191	123	00	30	61	67
50	2"	165	170	215	123	00	38	101	68

\*C = C + 20 FOR VALVE TYPE 21203