



SERIES : 32D

3/2 DIRECT ACTING HIGH ORIFICE/ UNIVERSAL SOLENOID VALVE

TYPE	PRESSURE	2X2NC
20106	0 - 10 bar	
20105	0 - 10 bar	

TYPE	PRESSURE	2X2NO
20206	0 - 10 bar	
20205	0 - 10 bar	

TYPE	PRESSURE	UNI
30308	0 - 10 bar	
30309	0 - 10 bar	
30329	0 - 16 bar	
30333	0 - 10 bar	

FEATURES

- Bubble tight shut off
- Mounts in any position
- Suitable for vacuum up to 10^{-6} torr
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 800 cycles/ min
- Life >10 million cycles
- Manual override optionally provided

WETTED PARTS

Code	⊗	B1	B2	B5
Body	Anodized Aluminium	Anodized Aluminium	Brass	SS 316
Internals	Brass and SS 316	SS 316	Brass and SS 316	SS 316
Guide Assembly	SS 304			
Shadow-Ring	None			
Plunger, Insert	SS 430			
Spring	SS 302			
Seat, Seals	NBR, Viton, Viton GLT, F.Silicon			
Fasteners	SS 304			

AMBIENT AND FLUID TEMPERATURE

-30 °C to 75 °C

SPECIAL VERSIONS AND SUFFIX

Suffix : (Valve) AM, WO

Special versions : (Solenoid) CO, FR, SS, LC, III

MEDIA

Air, Inert Gases, Water, Vacuum, Free Flowing Liquids, Oil, Diesel, Kerosene, LPG

APPLICATION

Single acting actuator/ Cylinder, control valve actuation.
Diverting/ mixing of fluid, analyzer, ESD

PORT CONNECTION

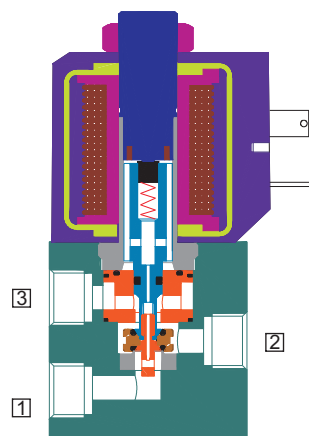
FUNCTION	INLET	OUTLET	EXHAUST
NC	1	2	3
NO	3	2	1
Mixing	1 and 3	2	
Diverting	2	1 and 3	

Contact Rotex for

- Any other ambient, fluid temperature, media and application
- UL listed, Listed general purpose Valve



- Valve type 30309 and 30329 does not have shadowring
- Plugging exhaust port, Can be used as bi directional, 2/2 NC type 20105, 20106, 30308TC, 30333TC, 30309TC, 30329TC OR 2/2 NO type 20205, 20206, 30308TO, 30308TO, 30333TO, 30329TO
- For Valve type 30308 and 30333 operated with AC voltage select in built full rectifier 'FR' option
- Add Suffix SL for Ordering SIL capable Certified valve.



SPARES

(Refer page 25 for ordering code)

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

3/2 DIRECT ACTING HIGH ORIFICE/ UNIVERSAL SOLENOID VALVE

SPECIFICATION

PORT CONNECTION			PRE-SSURE bar	ORIFICE (mm)	FLOW FACTOR kv (LPM OF WATER @ 1 bar ΔP)	VALVE TYPE	PILOT PRESSURE	BODY MATERIAL AND INTERNALS				SEALS			MANUAL OVERRIDE	SOLENOID ENCLOSURE				SUFFIX	POWER VA		CONSTRUCTION REFERENCE NUMBER			
SIZE	BSP (F)	NPT (F)						ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/CF8 (STD. PORT NPT)	NBR	Viton	EPDM		Viton GLT	F.Silicon	WEATHER PROOF	EXPLOSION PROOF		AC INRUSH	AC HOLDING		DC		
MINIMUM	MAXIMUM											NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	EXPLOSION PROOF IIC, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA			

3/2 UNIVERSAL

1/4"	2G	2R	0	10	5	5	30308		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E	III	14	✓	✓	8	8	8	323	
			0	10	7	14	30309		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	324	
			0	16	7	14	30329		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	324	
3/8"	3G	3R	0	10	10	30	30309		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	325	
			0	10	14	14	30309		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	324	
			0	10	5	5	30333					B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		14	✓	✓	8	8	8	223
			0	16	7	14	30329		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	324	
			0	16	10	25	30329		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	325	
1/2"	4G	4R	0	10	5	10	30333					B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		14	✓	✓	8	8	8	223
			0	10	10	30	30309		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	325	
			0	16	10	25	30329		×	B1	B2	B5	×	S2	S2G	S19	×	M6	M8		25	T	E		18		✓	15	15	15	325	

Cable Entry	T	Ex d	E	Ex emb
M20 x 1.5	19	39	87MS	58MS 58LTMS
M25 x 1.5			87	58 58LT
1/2" NPT	16	37	87NS	58NS 58LTNS

× = Do not specify when opted for. Refer Page # 22 for Value of ×
✓ = Options available

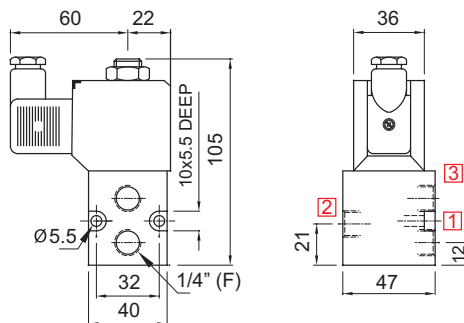
ORDERING CODE AND EXAMPLE VALVE + SOLENOID

TYPE - SUFFIX - ORIFICE - PORT CONNECTION - BODY AND INTERNALS - MANUAL OVERRIDE - SEAL + SIZE - VOLTAGE - CURRENT - SOLENOID ENCLOSURE - APPROVAL - INSULATION - SPECIAL VERSION
e.g. 30309-7-2G+110V DC; 30308-5-2R-B5-S2+220V 50Hz-37-III-FR

DIMENSIONS

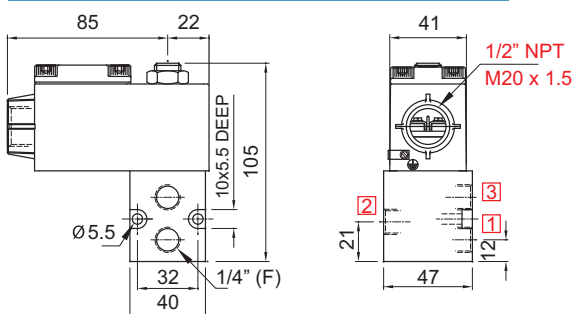
All Dimensions are in mm

CONSTRUCTION REFERENCE : 323



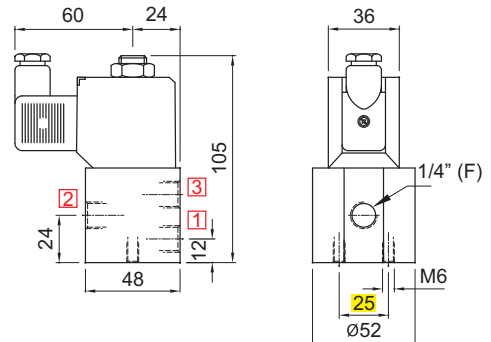
PLUG IN SOLENOID TYPE 22

CONSTRUCTION REFERENCE : 323



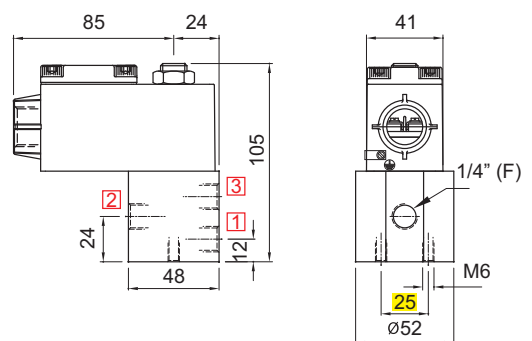
TERMINAL BOX/ Ex d/ TYPE 16, 19, 37, 39, 58, 58LT

VALVE TYPE : 30308 WITH SS BODY



PLUG IN SOLENOID TYPE 22

VALVE TYPE : 30308 WITH SS BODY



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

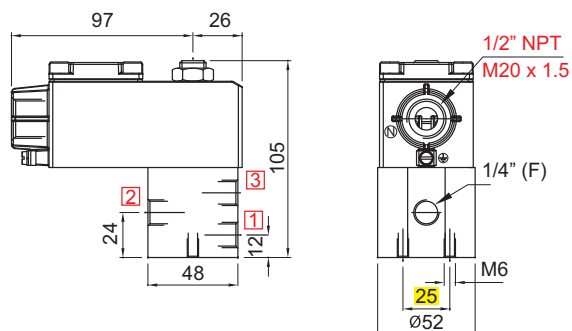
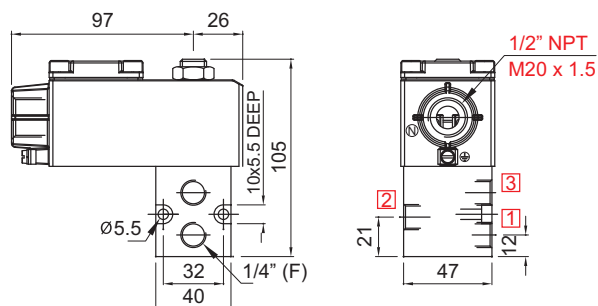
3/2 DIRECT ACTING HIGH ORIFICE/ UNIVERSAL SOLENOID VALVE

DIMENSIONS All Dimensions are in mm

CONSTRUCTION REFERENCE : 323

VALVE TYPE : 30308

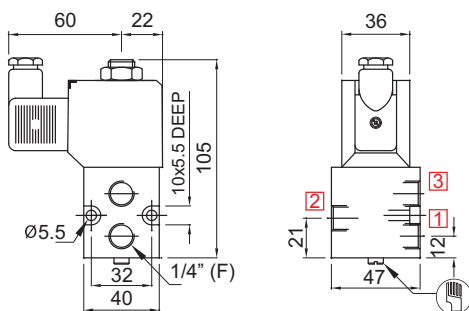
Valve Type : 30308 Body Stainless Steel and Large Enclosure



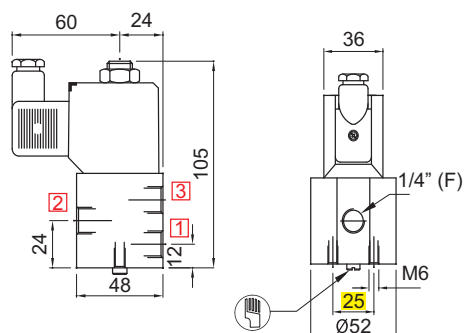
TERMINAL BOX/ EX d/ LARGE ENCLOSURE,
TYPE 16, 19, 37, 39, 58, 58LT, LC

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

CONSTRUCTION REFERENCE : 323

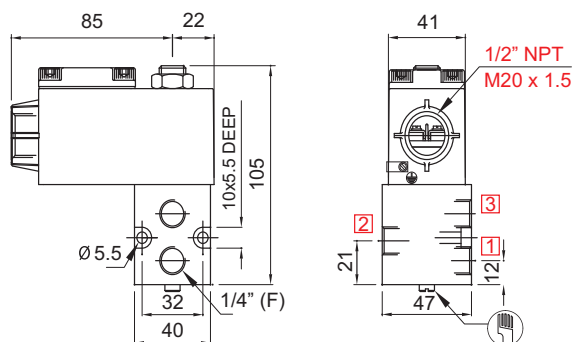


PLUG IN SOLENOID TYPE 22/ 25

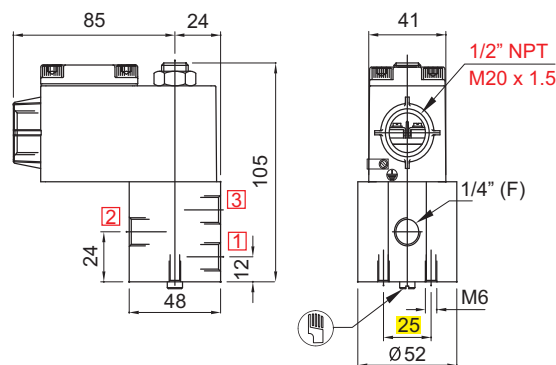


PLUG IN SOLENOID TYPE 22/ 25

CONSTRUCTION REFERENCE : 323



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



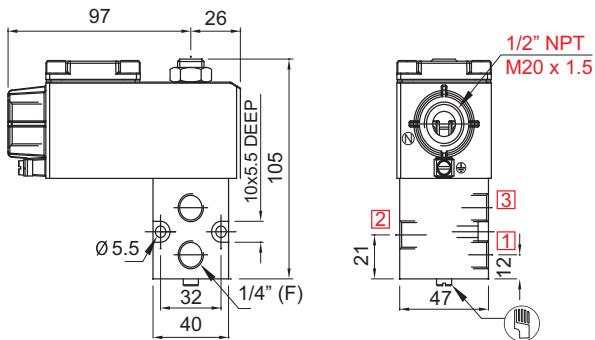
TERMINAL BOX/ Ex d/ TYPE 16, 19, 37, 39, 58, 58LT

3/2 DIRECT ACTING HIGH ORIFICE / UNIVERSAL SOLENOID VALVE

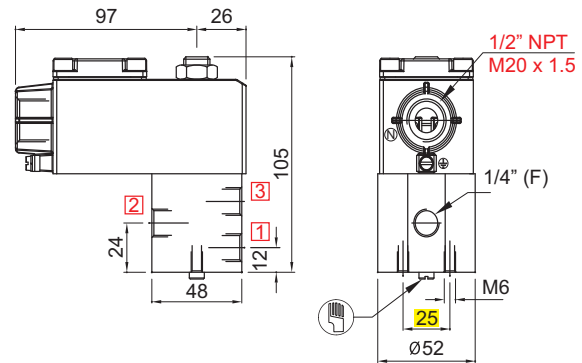
DIMENSIONS

All Dimensions are in mm

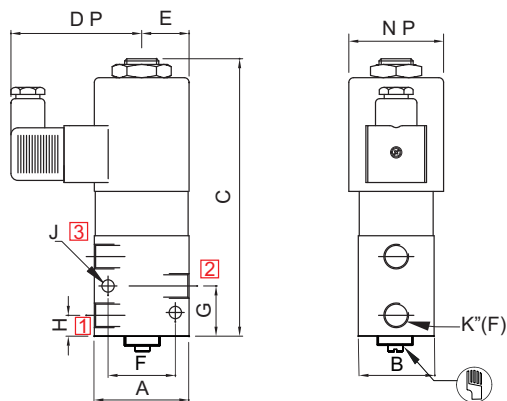
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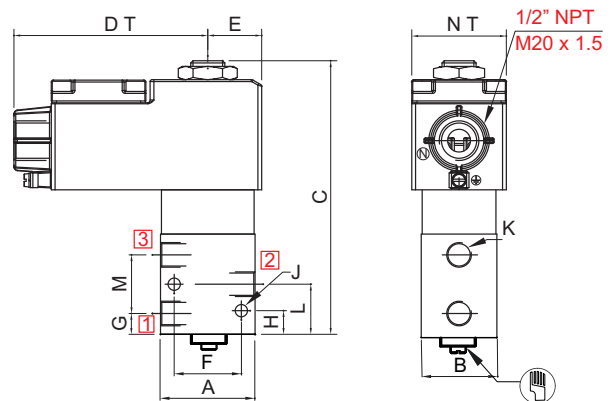
TERMINAL BOX/ Ex d/ LARGE ENCLOSURE,
TYPE 16, 19, 37, 39, 58, 58LT, LC



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



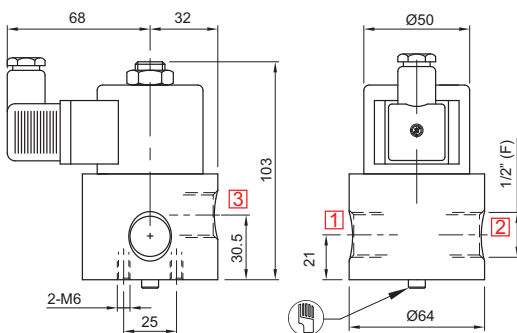
PLUG IN SOLENOID TYPE 25



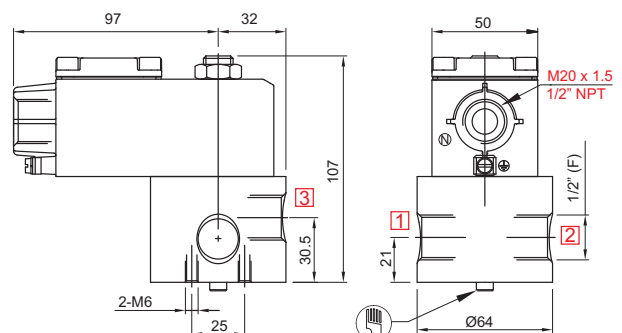
TERMINAL BOX/ Ex d/ TYPE 16, 17, 37, 39, 58, 58LT

NW	K (PORT SIZE)	A	B	C	DP	DT	E	F	G	H	J	L	M	NP	NT	CONST. REF.
VALVE TYPE : 30309, 30329																
7	1/4", 3/8"	50	40	146	69	103	25	36	27	11	6.5	27	31	Ø50	M50	324
10	3/8", 1/2"	60	50	160	69	103	30	38	35	16	6.5	35	36	Ø50	M50	325

CONSTRUCTION REFERENCE : 223

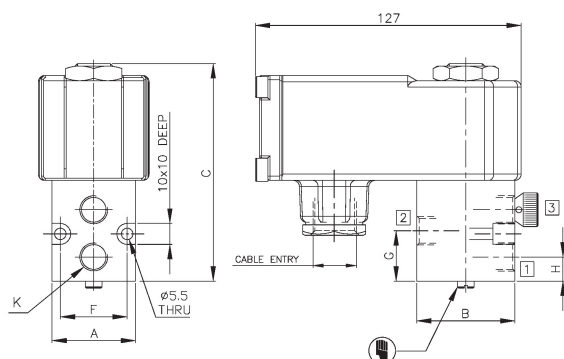


PLUG IN SOLENOID TYPE 25/ 22

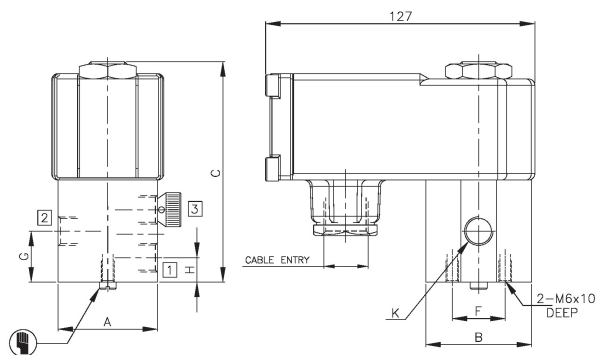


TERMINAL BOX/ Ex d/ LARGE ENCLOSURE, TYPE 16, 19, 37, 39, 58, 58LT

3/2 DIRECT ACTING, HIGH ORIFICE, UNIVERSAL SOLENOID VALVE



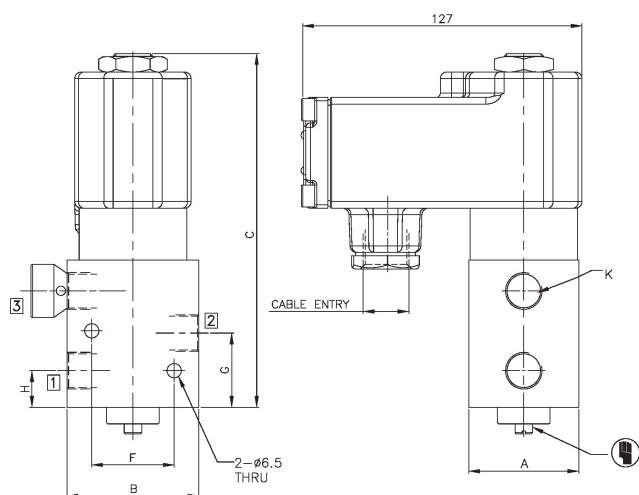
BCE SOLENOID/ Ex d TYPE 87



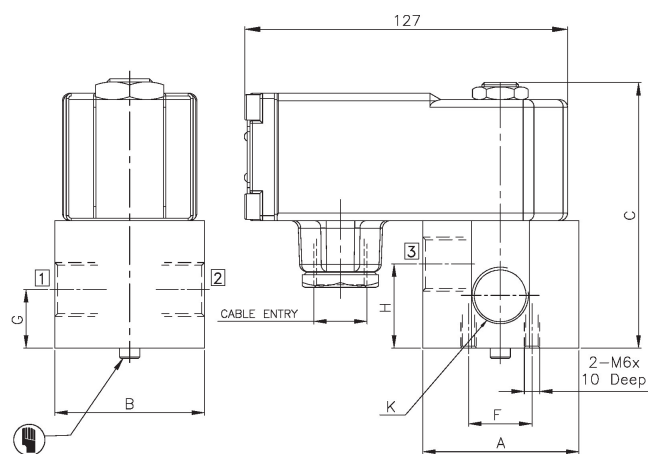
BCE SOLENOID/ Ex d TYPE 87

K (PORT SIZE)	A	B	C	F	G	H	BODY MATL.	CONST. REF.
VALVE TYPE : 30308								
1/4"	40	47	104	32	24	12	AL, BR	323
1/4"	47	Ø50	104	25	24	12	SS	323

6



BCE SOLENOID/ Ex d TYPE 87



BCE SOLENOID/ Ex d TYPE 87

NW	K (PORT SIZE)	A	B	C	F	G	H	CONST. REF.
VALVE TYPE : 30309, 30329								
7	1/4", 3/8"	40	50	146	36	27	11	324
10	3/8", 1/2"	50	60	158	38	35	16	325

K (PORT SIZE)	A	B	C	F	G	H	CONST. REF.
VALVE TYPE : 30333							
1/2" 3/8"	Ø62	A/F59	104	25	22.5	32.5	223