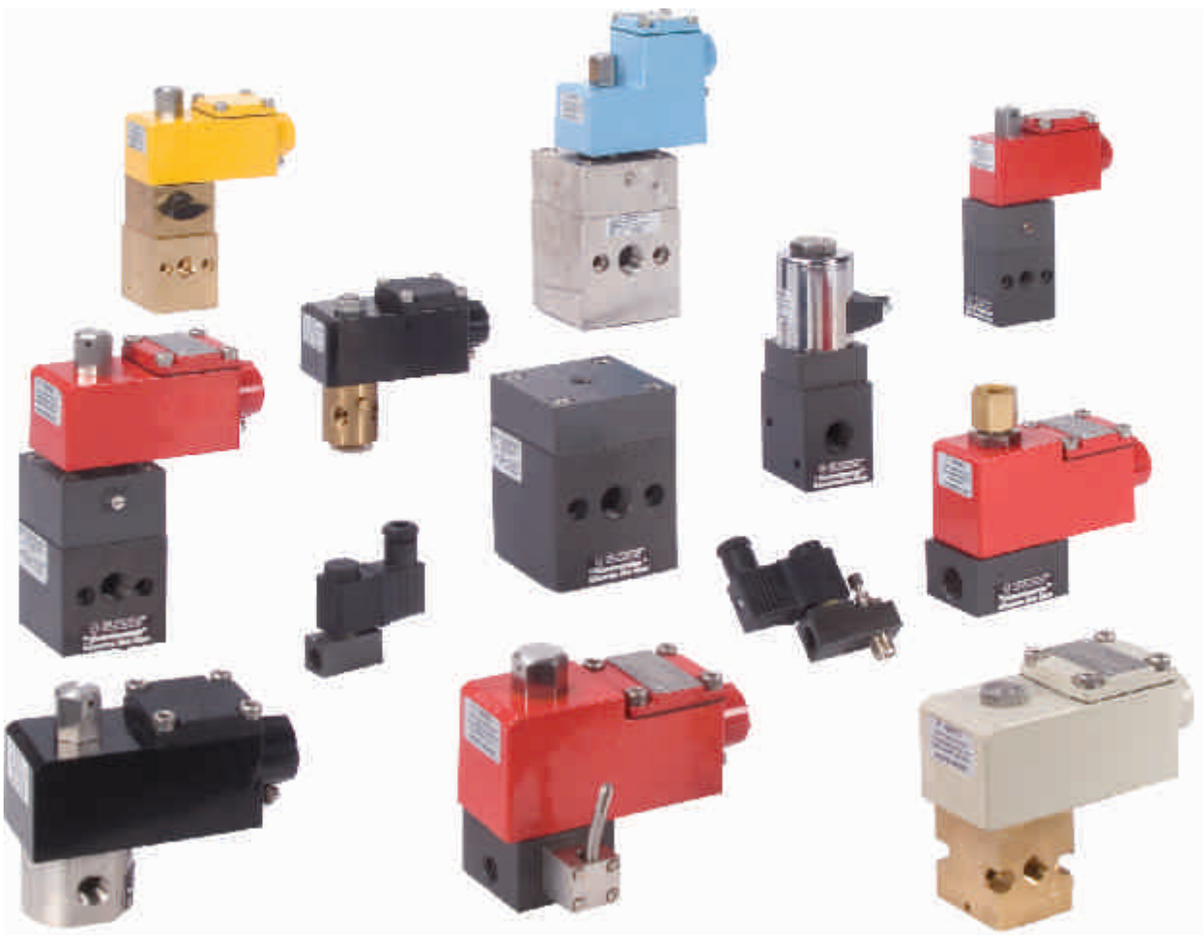
3 PORT VALVE



TYPE	NW mm	PRESS. bar	PAGE NO.	NW mm	PRESS. bar	PAGE NO.	NW mm	PRESS. bar	PAGE NO.
	NORMALLY CLOSED			NORMALLY OPEN			UNIVERSAL		
Direct Acting	1.2 - 4	0 - 63	117	1.2 - 4	0 - 63	117	1.2 - 4	0 - 32	117
Direct Acting	1.5 To 2.5	0 - 10	123						
Direct Acting Direct Mount	1.5 To 2.5	0 - 10	125						
Direct Acting (All Ports in Body)	1.2 - 3	0 - 20	127	1.2 - 3	0 - 20	127	1.2 - 3	0 - 12	127
Direct Acting High Orifice	5, 7, 10	0 - 20	129	5, 7, 10	0 - 20	129	5, 7, 10	0 - 20	129
Direct Acting High Orifice							5	0 - 10	133
Internal Pilot Operated	7 To 25	2 - 40	135	7 To 25	2 - 40	135	7 To 25	1 - 8	139
External Pilot Operated							7 To 25	0 - 20	143
Air Operated							7 To 25	0 - 35	145
Direct Acting High Pressure	0.8	0 - 150	147	0.8	0 - 150	149			
Large Orifice Internal Pilot	40, 50	2 - 10	147						
Large Orifice External Pilot	40, 50	0 - 10	149						
High Pressure Internal Pilot Operated	7 To 25	4 - 70	151	7 To 25	5 - 70	151			

3 PORT SOLENOID VALVE

SOLENOID INTERCHANGEABILITY

WP TERMINAL BOX
(16, 19)

WP TERMINAL BOX
SS CAST ENCLOSURE
(16-CO, 19-CO)

WP MULTI PIN
(70)

WP/ EP LATCH
ENCLOSURE
(16-LC, 19-LC) (37-LC, 39-LC)

WP DIN PLUGIN
(22)

EP Ex d ENCLOSURE
(37, 19)

WP DIN PLUGIN
(25)

EP Ex d SS CAST
ENCLOSURE
(37-CO, 39-CO)

WP FLYING LEAD
(01)

EP Ex ia AL/ SS
CAST ENCLOSURE
(63, 64) (63-CO, 64-CO)

WP : WEATHER PROOF
EP : EXPLOSION PROOF

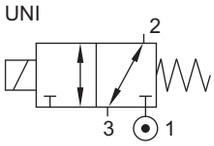
ROTEX THREE PORT VALVE PROVIDES INTERCHANGEABILITY FOR VARIOUS SOLENOID ENCLOSURES, VOLTAGE AND CURRENT WITHOUT AFFECTING ITS PERFORMANCE.

Specifications are subject to change without notice.

3/2 DIRECT ACTING SOLENOID VALVE

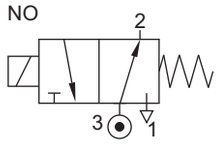
TYPE	PRESSURE
30301	0 - 14 bar
30310	0 - 32 bar

UNI



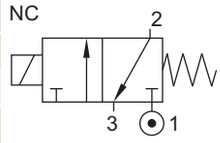
TYPE	PRESSURE
30201	0 - 20 bar
30206	0 - 63 bar

NO



TYPE	PRESSURE
30125	0 - 20 bar
30126	0 - 63 bar

NC

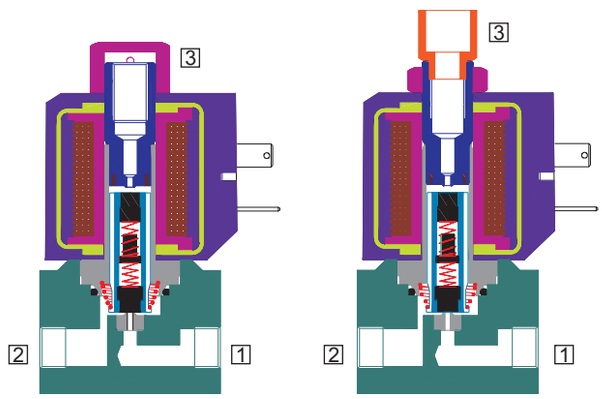


FEATURES

- 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 1000 cycles/ min
- Life >10 million cycles
- Manual override optionally provided

WETTED PARTS

Code	※	B2	B5
Body	Anodized Aluminium	Brass	SS 316
Internals	Aluminium	Brass	SS 316
Guide Assembly	SS 304		
Shadow-Ring	Copper/ Silver/ None		
Plunger, Insert	SS 430		
Spring	SS 302		
Seat, Seals	NBR, Viton, EPDM		



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

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

MEDIA

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

APPLICATION

Single acting actuator/ Cylinder/ control valve actuation
Diverting/ mixing of fluid

PORT CONNECTION

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

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCPEL			✓	✓		
PG			✓	✓		
IECEx			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- UL listed, c(UL) Listed general purpose Valve
- SIL4 approved valve

ROTEX
Engineering For The Future

3/2 DIRECT ACTING SOLENOID VALVE

SPECIFICATION

PORT CONNECTION			PRESSURE 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
																					WEATHER PROOF				EXPLOSION PROOF									
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FPJB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																
1/8”	1G	1R	0	4	3	4	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	6	4	7	30126		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	10	1.8	1.8	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	12	3	4	30126		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	25	2.2	2.5	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
1/4”	2G	2R	0	4	3	4	30125		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	6	2.5	3.5	30125		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	6	4	7	30126		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	8	2.2	2.5	30125		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	8	3.5	5	30126		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	12	3	4	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	15	1.6	1.8	30125		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	16	2.5	3.5	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	20	1.2	0.7	30125		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	A
			0	25	2.2	2.5	30126		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	C
			0	32	1.8	1.8	30126		※		B2	B5	※	S2	S1		S8	※	M12	M5	F		25	T	E		18	✓	✓	13	13	13	C
			0	63	1.2	0.7	30126		※		B2	B5						※	M11	M4	F		25	T	E		18	✓	✓	13	13	13	C
3/8”	3G	3R	0	4	3	4	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	6	4	7	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	10	1.8	1.8	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	12	3	4	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	25	2.2	2.5	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
1/2”	4G	4R	0	4	3	4	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	6	2.5	3.5	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	6	4	7	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	8	2.2	2.5	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	8	3.5	5	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	12	3	4	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	15	1.6	1.8	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	16	2.5	3.5	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	20	1.2	0.7	30125		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	B
			0	25	2.2	2.5	30126		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	D
			0	32	1.8	1.8	30126		※		B2	B5	※	S2	S1		S8	※	M12	M5	F		25	T	E		18	✓	✓	13	13	13	D
			0	63	1.2	0.7	30126		※		B2	B5					※	※	M11	M4	F		25	T	E		18	✓	✓	13	13	13	D

Cable Entry	T	E
M20 x 1.5	19	39
1/2” NPT	16	37

	F
Flying lead IP54	※
Flying lead IP67	01

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

Code	Construction Reference
A	301, 303
B	302, 304
C	305, 307
D	306, 308

7

Specifications are subject to change without notice.

1

3/2 DIRECT ACTING SOLENOID VALVE

SPECIFICATION

PORT CONNECTION			PRESSURE 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
																				WEATHER PROOF				EXPLOSION PROOF									
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT) SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY OPEN																																
1/8”	1G	1R	0	4	3	4	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	6	4	7	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	10	1.8	1.8	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	12	3	4	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	25	2.2	2.5	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
1/4”	2G	2R	0	4	3	4	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	6	2.5	3.5	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	6	4	7	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	8	2.2	2.5	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	8	3.5	5	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	12	3	4	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	15	1.6	1.8	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	16	2.5	3.5	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	20	1.2	0.7	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	E
			0	25	2.2	2.5	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	G
			0	32	1.8	1.8	30206		※		B2	B5	※	S2	S1		S8	※	M12	M5	F		25	T	E		18	✓	✓	13	13	13	G
			0	63	1.2	0.7	30206		※		B2	B5					※	※	M11	M4	F		25	T	E		18	✓	✓	13	13	13	G
3/8”	3G	3R	0	4	3	4	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	6	4	7	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	10	1.8	1.8	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	12	3	4	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	25	2.2	2.5	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
1/2”	4G	4R	0	4	3	4	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	6	2.5	3.5	30201		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	6	4	7	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	8	2.2	2.5	30201		※		B2	B5	※	S2	S1		S8	※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	8	3.5	5	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	12	3	4	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	15	1.6	1.8	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	16	2.5	3.5	30206		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	20	1.2	0.7	30201		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	F
			0	25	2.2	2.5	30206		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	H
			0	32	1.8	1.8	30206		※		B2	B5	※	S2	S1		S8	※	M12	M5	F		25	T	E		18	✓	✓	13	13	13	H
			0	63	1.2	0.7	30206		※		B2	B5					※	※	M11	M4	F		25	T	E		18	✓	✓	13	13	13	H

Cable Entry	T	E
M20 x 1.5	19	39
1/2” NPT	16	37

	F
Flying lead IP54	※
Flying lead IP67	01

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

Code	Construction Reference
E	309, 311
F	310, 312
G	313, 315
H	314, 316

7

ROTEX
Engineering For The Future

3/2 DIRECT ACTING 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
																					WEATHER PROOF				EXPLOSION PROOF										
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FPJB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 UNIVERSAL																																
1/8"	1G	1R	0	1.5	3	4	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	3.5	4	7	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	8	1.8	1.8	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	8	3	4	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	12	2.2	2.5	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
1/4"	2G	2R	0	1.5	3	4	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	3.5	4	7	30310		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	4	2.5	3.5	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	5	2.2	2.5	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	5	3.5	5	30310		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	8	3	4	30310		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	10	1.6	1.8	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	10	2.5	3.5	30310		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	12	2.2	2.5	30310		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	14	1.2	0.7	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	I
			0	16	1.8	1.8	30310		※		B2	B5	※	S2	S1		S8	※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	K
			0	32	1.2	0.7	30310		※		B2	B5	※	S2	S1		S8	※	M12	M5	F		25	T	E		18	✓	✓	13	13	13	K
3/8"	3G	3R	0	1.5	3	4	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	3.5	4	7	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	8	1.8	1.8	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	8	3	4	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	12	2.2	2.5	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
1/2"	4G	4R	0	1.5	3	4	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	3.5	4	7	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	4	2.5	3.5	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	5	2.2	2.5	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	5	3.5	5	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	8	3	4	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	10	1.6	1.8	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	10	2.5	3.5	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	12	2.2	2.5	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	14	1.2	0.7	30301		※		B2	B5	※	S2	S1			※	M6	M8	F	22	25	T	E	III	14	✓	✓	18	12	8	J
			0	16	1.8	1.8	30310		※		B2	B5	※	S2	S1			※	M6	M8	F		25	T	E		18	✓	✓	13	13	13	L
			0	32	1.2	0.7	30310		※		B2	B5	※	S2	S1		S8	※	M12	M5	F		25	T	E		18	✓	✓	13	13	13	L

Cable Entry	T	E
M20 x 1.5	19	39
1/2" NPT	16	37

	F
Flying lead IP 54	※
Flying lead IP 67	01

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

Code	Construction Reference
I	309, 311
J	310, 312
K	313, 315
L	314, 316

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

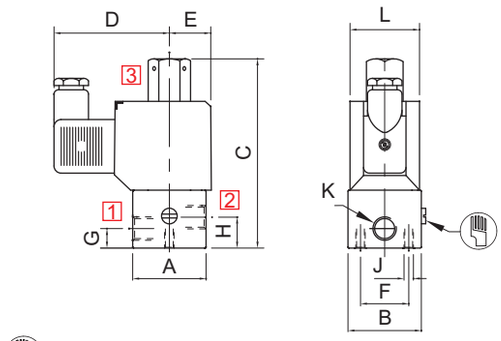
e.g. 30125-1.8-2G+24V DC - 22; 30301-1.6-2R-B5-S1+220V DC-37-III

Specifications are subject to change without notice.

3/2 DIRECT ACTING SOLENOID VALVE

DIMENSIONS

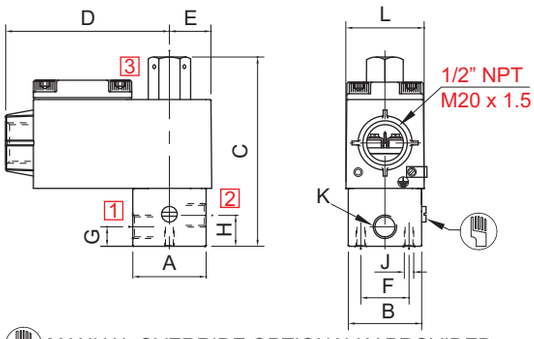
All Dimensions are in mm



MANUAL OVERRIDE OPTIONALLY PROVIDED

PLUG IN SOLENOID TYPE 22

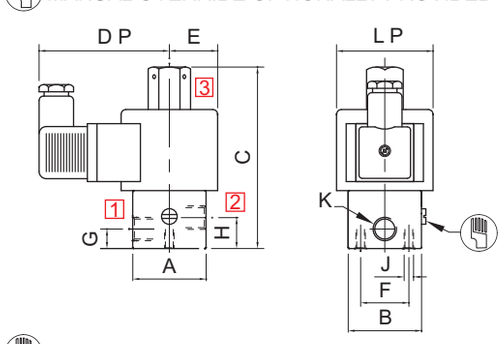
K (PORT SIZE)	A	B	C	D	E	F	G	H	J	L	BODY MATL.	CONST. REF.
VALVE TYPE : 30125												
1/8", 1/4"	38	38	98	60	25	25	10	16	M6	36	AL, BR	301
3/8", 1/2"	60	38	106	60	25	25	20.5	20.5	M6	36	AL, BR	302
1/8", 1/4"	44	Ø48	102	60	25	25	17	10.5	M6	36	SS	303
3/8", 1/2"	58	Ø62	111	60	25	25	14	14	M6	36	SS	304



MANUAL OVERRIDE OPTIONALLY PROVIDED

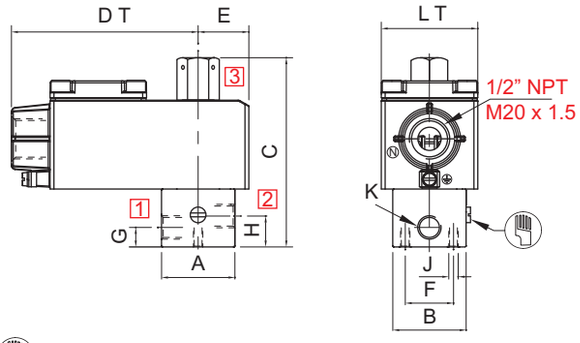
TERMINAL BOX/ Ex d ENCLOSURE, TYPE 16, 19, 37, 39

K (PORT SIZE)	A	B	C	D	E	F	G	H	J	L	BODY MATL.	CONST. REF.
VALVE TYPE : 30125												
1/8", 1/4"	38	38	98	85	25	25	10	16	M6	41	AL, BR	301
3/8", 1/2"	60	38	106	85	25	25	20.5	20.5	M6	41	AL, BR	302
1/8", 1/4"	44	Ø48	102	85	25	25	17	10.5	M6	41	SS	303
3/8", 1/2"	58	Ø62	111	85	25	25	14	14	M6	41	SS	304



MANUAL OVERRIDE OPTIONALLY PROVIDED

SQUARE PLUG IN SOLENOID TYPE 25



MANUAL OVERRIDE OPTIONALLY PROVIDED

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

K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L P	L T	BODY MATL.	CONST. REF.
VALVE TYPE : 30125														
1/8", 1/4"	38	38	98	66	97	25	25	10	16	M6	Ø50	50	AL, BR	301
3/8", 1/2"	60	38	106	66	97	25	25	20.5	20.5	M6	Ø50	50	AL, BR	302
1/8", 1/4"	44	Ø48	102	66	97	25	25	17	10.5	M6	Ø50	50	SS	303
3/8", 1/2"	58	Ø62	111	66	97	25	25	14	14	M6	Ø50	50	SS	304
VALVE TYPE : 30126														
1/8", 1/4"	50	50	110	68	103	25	25	10.5	17	M6	Ø50	50	AL, BR	305
3/8", 1/2"	65	50	110	68	103	32	25	14	14	M6	Ø50	50	AL, BR	306
1/8", 1/4"	44	Ø48	102	68	103	25	25	10.5	17	M6	Ø50	50	SS	307
3/8", ½"	58	Ø62	102	68	103	32	25	14	14	M6	Ø50	50	SS	308

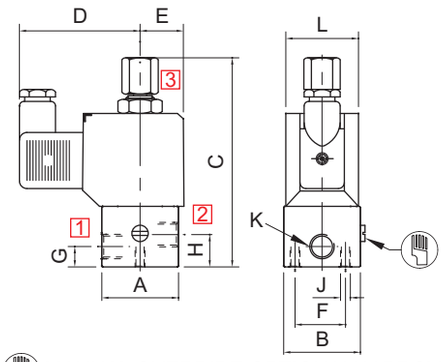
7

ROTEX
Engineering For The Future

3/2 DIRECT ACTING SOLENOID VALVE

DIMENSIONS

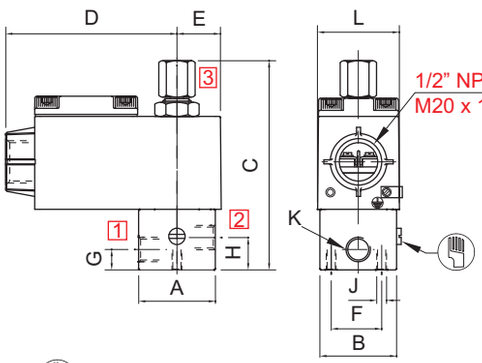
All Dimensions are in mm



MANUAL OVERRIDE OPTIONALLY PROVIDED

PLUG IN SOLENOID TYPE 22

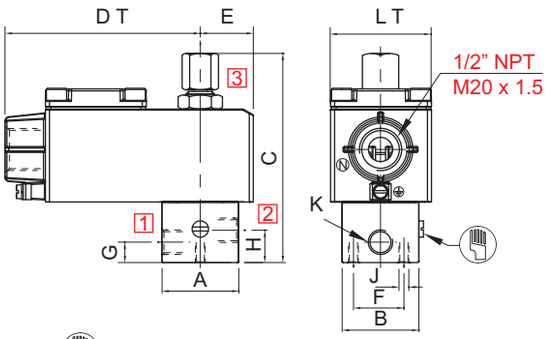
K (PORT SIZE)	A	B	C	D	E	F	G	H	J	L	BODY MATL.	CONST. REF.
VALVE TYPE : 30201, 30301												
1/8", 1/4"	38	38	98	60	22	25	10	16	M6	36	AL, BR	309
3/8", 1/2"	60	38	106	60	22	25	20.5	20.5	M6	36	AL, BR	310
1/8", 1/4"	44	Ø48	102	60	22	25	17	10.5	M6	36	SS	311
3/8", 1/2"	58	Ø62	111	60	22	25	14	14	M6	36	SS	312



MANUAL OVERRIDE OPTIONALLY PROVIDED

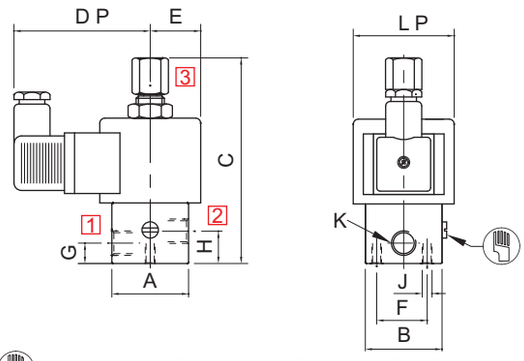
TERMINAL BOX/ Ex d ENCLOSURE, TYPE 16, 19, 37, 39

K (PORT SIZE)	A	B	C	D	E	F	G	H	J	L	BODY MATL.	CONST. REF.
VALVE TYPE : 30201, 30301												
1/8", 1/4"	38	38	102	85	22	25	10	16	M6	41	AL, BR	309
3/8", 1/2"	60	38	106	85	22	25	20.5	20.5	M6	41	AL, BR	310
1/8", 1/4"	44	Ø48	102	85	22	25	17	10.5	M6	41	SS	311
3/8", 1/2"	58	Ø62	111	85	22	25	14	14	M6	41	SS	312



MANUAL OVERRIDE OPTIONALLY PROVIDED

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



MANUAL OVERRIDE OPTIONALLY PROVIDED

SQUARE PLUG IN SOLENOID TYPE 25

K (PORT SIZE)	A	B	C	D T	D P	E	F	G	H	J	L P	L T	BODY MATL.	CONST. REF.
VALVE TYPE : 30201, 30301														
1/8", 1/4"	38	38	98	97	66	26	25	10	16	M6	Ø50	50	AL, BR	309
3/8", 1/2"	60	38	106	97	66	26	25	20.5	20.5	M6	Ø50	50	AL, BR	310
1/8", 1/4"	44	Ø48	102	97	66	26	25	17	10.5	M6	Ø50	50	SS	311
3/8", 1/2"	58	Ø62	111	97	66	26	25	14	14	M6	Ø50	50	SS	312
VALVE TYPE : 30206, 30310														
1/8", 1/4"	50	50	124	103	68	28	25	10	17	M6	Ø50	50	AL, BR	313
3/8", 1/2"	65	50	124	103	68	28	25	14	14	M6	Ø50	50	AL, BR	314
1/8", 1/4"	50	50	124	103	68	28	25	10	17	M6	Ø50	50	SS	315
3/8", 1/2"	65	50	124	103	68	28	25	14	14	M6	Ø50	50	SS	316

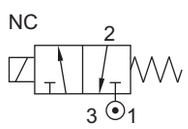
Specifications are subject to change without notice.

3/2 DIRECT ACTING NC GENERAL PURPOSE SOLENOID VALVE

TYPE	PRESSURE

TYPE	PRESSURE

TYPE	PRESSURE
301	0 - 10 bar
302	0 - 10 bar
303	0 - 10 bar

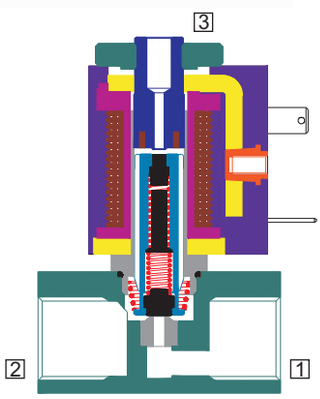


FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 5g
- Suitable for high speed cycling
- Speed up to 1000 cycles/ min
- Life >10 million cycles

WETTED PARTS

Code	※		
Body	Aluminium		
Internals	Aluminium		
Guide Assembly	Brass		
Shadow-Ring	Copper		
Plunger, Insert	SS 430		
Spring	SS 302		
Seat, Seals	NBR		



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) OX, WO
Special version : (Solenoid)

MEDIA

Air, Inert Gases

APPLICATION

Single acting actuator/ Cylinder, control valve actuation.

PORT CONNECTION

FUNCTION	INLET	OUTLET	EXHAUST
NC	1	2	3

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓				
CE		✓				
UL						

Contact Rotex for
- Any other ambient, fluid temperature, media and application

⚠ Recommended for Indoor Installation.

ROTEX
Engineering For The Future

3/2 DIRECT ACTING GENERAL PURPOSE SOLENOID VALVE

SPECIFICATION

PORT CONNECTION			PRE-SSURE bar						BODY MATERIAL AND INTERNALS				SEALS					MANUAL OVERRIDE			SOLENOID ENCLOSURE						SUFFIX		POWER VA			CONSTRUCTION REFERENCE NUMBER
																					WEATHER PROOF			EXPLOSION PROOF								
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM	ORIFICE (mm)	FLOW FACTOR kv (LPM OF WATER @ 1 bar ΔP)	VALVE TYPE	PILOT PRESSURE	ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																	
M5			0	3	2.5	3	303C		※				※					※				22					8			12	6	5	317
M5			0	5	2	2.0	303B		※				※					※				22					8			12	6	5	317
M5			0	10	1.5	1.2	303A		※				※					※				22					8			12	6	5	317
1/8”	1G		0	3	2.5	3.0	301C		※				※					※				22					8			12	6	5	317
			0	5	2	2.0	301B		※				※					※				22					8			12	6	5	317
			0	10	1.5	1.2	301A		※				※					※				22					8			12	6	5	317
1/4”	2G		0	3	2.5	3.0	302C		※				※					※				22					8			12	6	5	318
			0	5	2	2.0	302B		※				※					※				22					8			12	6	5	318
			0	10	1.5	1.2	302A		※				※					※				22					8			12	6	5	318

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

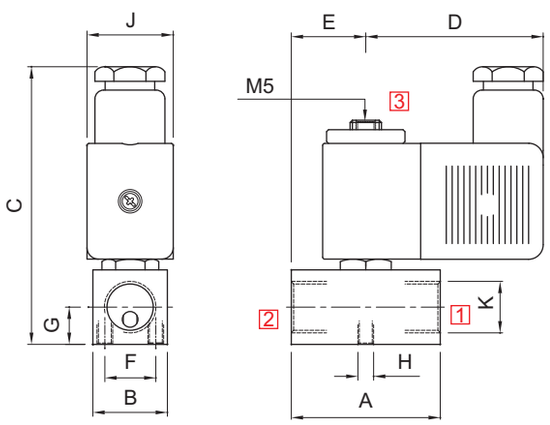
ORDERING CODE AND EXAMPLE

VALVE + SOLENOID

TYPE – PORT CONNECTION – SEAL +
VOLTAGE – CURRENT – SOLENOID ENCLOSURE
e.g. 303C+24V DC-22; 302B-B2+220V 50Hz-22

DIMENSIONS

All Dimensions are in mm



PLUG IN SOLENOID TYPE 22

K (PORT SIZE)	A	B	C	D	E	F	G	H	J	CONST. REF.
VALVE TYPE : 301										
1/8”	38	19	70	45	19	13	9.5	M4	22	317
VALVE TYPE : 302										
1/4”	38	19	70	45	19	13	9.5	M4	22	318
VALVE TYPE : 303										
M5	38	19	70	45	19	13	9.5	M4	22	317

7

Specifications are subject to change without notice.

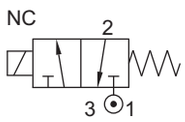
2

3/2 DIRECT MOUNT, DIRECT ACTING SOLENOID VALVE

TYPE	PRESSURE

TYPE	PRESSURE

TYPE	PRESSURE
304	0 - 10 bar
305	0 - 10 bar



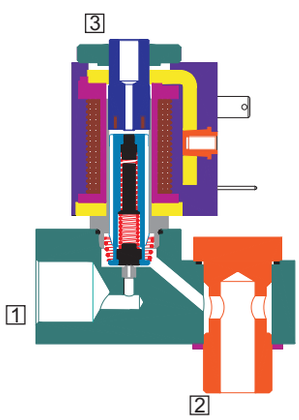
FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 9g
- Speed up to 1000 cycles/ min
- Ease of installation
- Life >10 million cycles

SM

WETTED PARTS

Code	※		
Body	Anodized Aluminium		
Internals	Aluminium		
Guide Assembly	Brass		
Shadow-Ring	Copper		
Plunger, Insert	SS 430		
Spring	SS 302		
Seat, Seals	NBR, Viton, EPDM		



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) OX, WO
Special version : (Solenoid)

MEDIA

Air, Inert Gases

APPLICATION

Single acting actuator/ Cylinder, control valve actuation.
Directly mounted on the Actuator, Angle seat valve operator

PORT CONNECTION

FUNCTION	INLET	OUTLET	EXHAUST
NC	1	2	3

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓				
CE		✓				
UL						

Contact Rotex for
- Any other ambient, fluid temperature, media and application

Valve supplied with gasket and Benjo fitting
Recommended for indoor installation.

CONTACT ROTEX BEFORE SELECTING THIS ITEM

ROTEX
Engineering For The Future

3/2 DIRECT MOUNT, DIRECT ACTING 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
																					WEATHER PROOF				EXPLOSION PROOF										
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS	SS 316/ CF8M	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FPJB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																
1/4"	2G		0	10	1.5	1.2	304A		※				※					※				22				8			12	6	5	320
1/4"	2G		0	10	1.5	1.2	305A		※				※					※				22				8			12	6	5	321

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

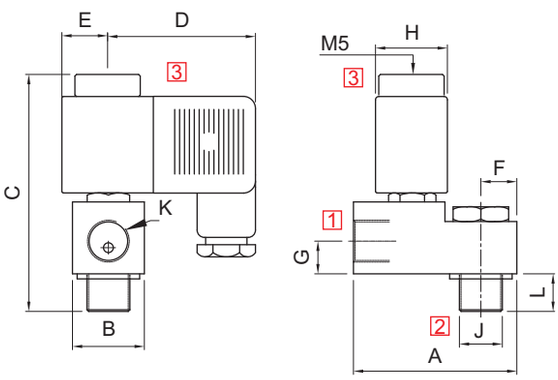
ORDERING CODE AND EXAMPLE

VALVE + SOLENOID

TYPE – PORT CONNECTION – SEAL +
VOLTAGE – CURRENT – SOLENOID ENCLOSURE
e.g. 304B+110V 50Hz-22; 305A-B5-S2+12V DC-22

DIMENSIONS

All Dimensions are in mm



PLUG IN SOLENOID TYPE 22

K (PORT SIZE)	A	B	C	D	E	F	G	H	J	L	CONST. REF.
VALVE TYPE : 304A											
1/4"	50	22	67	49	11	11	8.5	22	1/8	8	320
VALVE TYPE : 305A											
1/4"	50	22	71	49	11	11	10	22	1/4	12	321

7

CONTACT ROTEX BEFORE SELECTING THIS ITEM

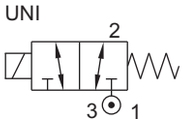
Specifications are subject to change without notice.

2

3/2 DIRECT ACTING, ALL PORTS IN BODY SOLENOID VALVE

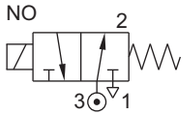
TYPE	PRESSURE
30370	0 - 12 bar

UNI



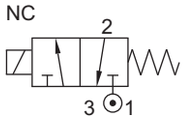
TYPE	PRESSURE
30270	0 - 20 bar

NO



TYPE	PRESSURE
30170	0 - 20 bar

NC

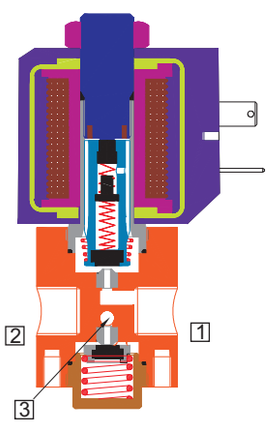


FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 6g
- Suitable for high speed cycling
- Speed up to 600 cycles/ min
- Life >10 million cycles
- Manual override optionally provided

WETTED PARTS

Code		B2	B5
Body		Brass	SS 316
Internals		Brass	SS 316
Guide Assembly	SS 304		
Shadow-Ring	Copper/ Silver/ None		
Plunger, Insert	SS 430		
Spring	SS 302		
Seat, Seals	NBR, Viton, EPDM		



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

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

MEDIA

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

APPLICATION

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

PORT CONNECTION

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

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
ISI		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCC			✓	✓		
PCC			✓	✓		
IECEx			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- UL listed, c(UL)us Listed general purpose Valve

ROTEX
Engineering For The Future

3/2 DIRECT ACTING, ALL PORTS IN BODY SOLENOID VALVE

SPECIFICATION

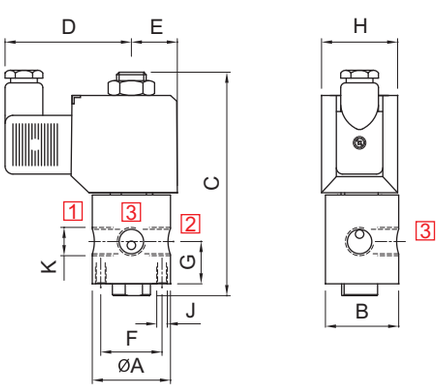
PORT CONNECTION			PRE-SSURE bar					PILOT PRESSURE	BODY MATERIAL AND INTERNALS				SEALS					MANUAL OVERRIDE			SOLENOID ENCLOSURE							SUFFIX		POWER VA			CONSTRUCTION REFERENCE NUMBER
																					WEATHER PROOF			EXPLOSION PROOF									
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM	ORIFICE (mm)	FLOW FACTOR kv (LPM OF WATER @ 1 bar ΔP)	VALVE TYPE		ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FPJB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																
1/4"	2G	2R	0	3	3.5	5	30170				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	4	3	4	30170				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	6	2.5	3.5	30170				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	10	1.8	1.8	30170				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	20	1.2	0.7	30170				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
3/2 NORMALLY OPEN																																
1/4"	2G	2R	0	3	3.5	5	30270				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	4	3	4	30270				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	6	2.5	3.5	30270				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	10	1.8	1.8	30270				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	20	1.2	0.7	30270				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
3/2 UNIVERSAL																																
1/4"	2G	2R	0	1	3.5	5	30370				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	2	3	4	30370				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	3	2.5	3.5	30370				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	7	1.8	1.8	30370				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322
			0	12	1.2	0.7	30370				B2	B5	※	S2	S1			※	M6	M8	22	25	T	E		14	✓	✓	18	12	8	322

Cable Entry	T	E
M20 x 1.5	19	39
1/2" NPT	16	37

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

DIMENSIONS

All Dimensions are in mm



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. 30170-1.8-2R-B5-M6+24V DC-01

K (PORT SIZE)	A	B	C	D	E	F	G	H	J	BODY MATL.	CONST. REF.
VALVE TYPE : 30170, 30270, 30370											
1/4"	Ø37	36	104	60	22	29	20	36	M5	BR, SS	322

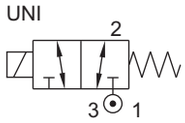
Specifications are subject to change without notice.

SERIES : 32D

3/2 DIRECT ACTING HIGH ORIFICE/ UNIVERSAL SOLENOID VALVE

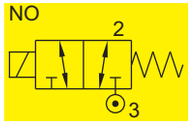
TYPE	PRESSURE
20106	0 - 10 bar
20105	0 - 10 bar

UNI



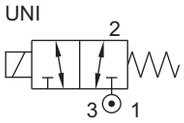
TYPE	PRESSURE
30333	0 - 10 bar
20206	0 - 10 bar
20205	0 - 10 bar

NO



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

UNI

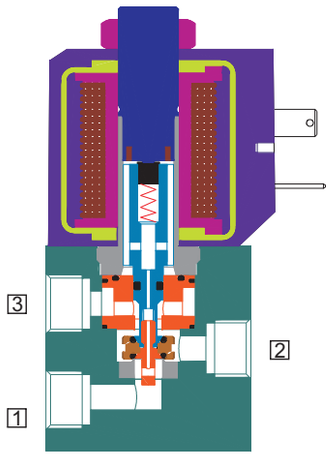


FEATURES

- 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	Aluminium, Brass and SS 316	Brass 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

-25 °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	

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CPEL			✓	✓		
PG			✓	✓		
TECEX			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- UL listed, c UL Listed general purpose Valve
- SIL4 approved 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, 30329TC or 2/2 NO type 20205, 20206, 30329TO
- For Valve type 30308 and 30333 operated with AC voltage select in built full rectifier 'FR' option

ROTEX
Engineering For The Future

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
																					WEATHER PROOF				EXPLOSION PROOF										
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	Viton GLT	F.Silicon	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 UNIVERSAL																																	
1/4"	2G	2R	0	10	5	8	30308		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F	22	25	T	E	III	14	✓	✓	8	8	8	323
			0	10	7	14	30309		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	324
			0	16	7	12	30329		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	324
			0	10	10	30	30309		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	325
3/8"	3G	3R	0	10	5	8	30333				B2	B5	※	S2		S2G	S19	※	M6	M8	F	22	25	T	E		14	✓	✓	8	8	8	223
			0	16	7	12	30329		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	324
			0	16	10	25	30329		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	325
1/2"	4G	4R	0	10	5	10	30333				B2	B5	※	S2		S2G	S19	※	M6	M8	F	22	25	T	E		14	✓	✓	8	8	8	223
			0	10	10	30	30309		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	325
			0	16	10	25	30329		※	B1	B2	B5	※	S2		S2G	S19	※	M6	M8	F		25	T	E		18		✓	13	13	13	325

Cable Entry	T	E
M20 x 1.5	19	39
1/2" NPT	16	37

	F
Flying lead IP54	※
Flying lead IP67	01

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

ORDERING CODE AND EXAMPLE

VALVE + SOLENOID

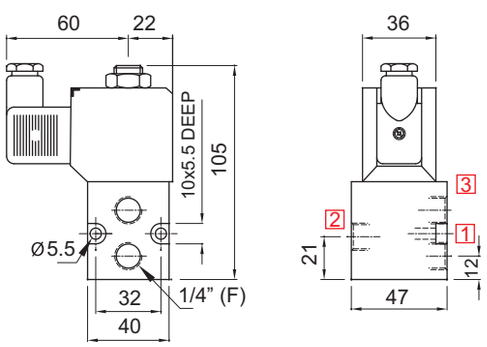
TYPE – SUFFIX – ORIFICE – PORT CONNECTION – BODY AND INTERNALS – MANUAL OVERRIDE – SEAL + SIZE – VOLTAGE – CURRENT – SOLENOID ENCLOSURE – APPROVAL – INSULATION – SPECIAL VERSION

e.g. 30309-7-2G+110V DC; 30308-5-2R-B5-S2+220V 50Hz-37-III-FR

DIMENSIONS

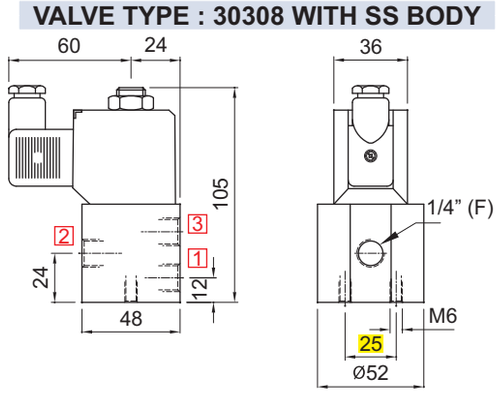
All Dimensions are in mm

CONSTRUCTION REFERENCE : 323



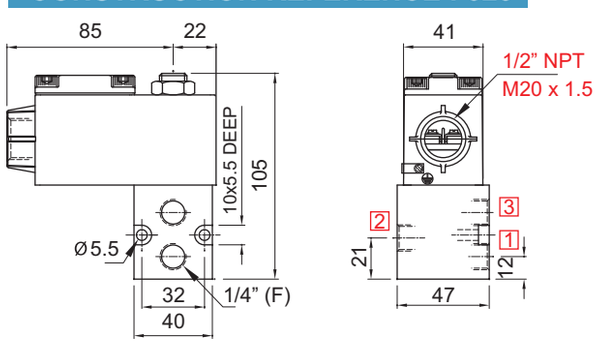
PLUG IN SOLENOID TYPE 22

VALVE TYPE : 30308 WITH SS BODY



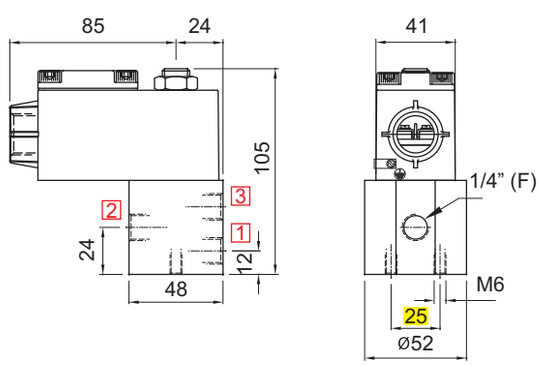
PLUG IN SOLENOID TYPE 22

CONSTRUCTION REFERENCE : 323



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

VALVE TYPE : 30308 WITH SS BODY



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

3/2 DIRECT ACTING HIGH ORIFICE/ UNIVERSAL SOLENOID VALVE

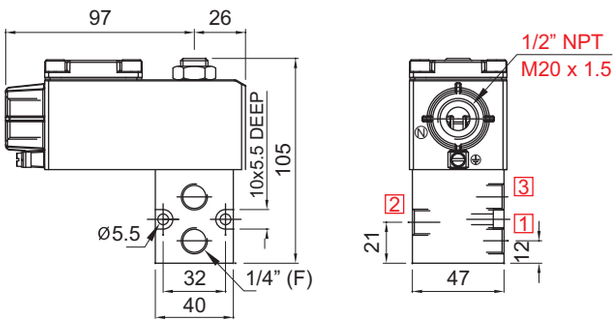
DIMENSIONS

All Dimensions are in mm

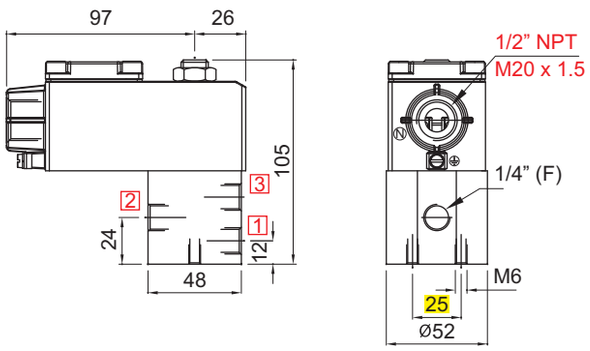
CONSTRUCTION REFERENCE : 323

VALVE TYPE : 30308

Valve Type : 30308 Body Stainless Steel and Large Enclosure

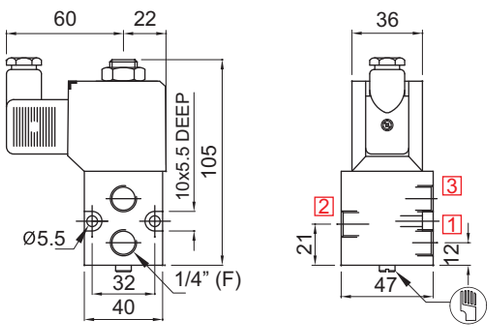


TERMINAL BOX/ EX d/ LARGE ENCLOSURE, TYPE 16, 19, 37, 39, LC

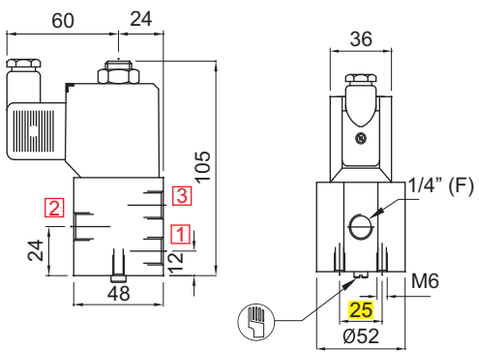


TERMINAL BOX/ EX d/ LARGE ENCLOSURE, TYPE 16, 19, 37, 39, LC

CONSTRUCTION REFERENCE : 323

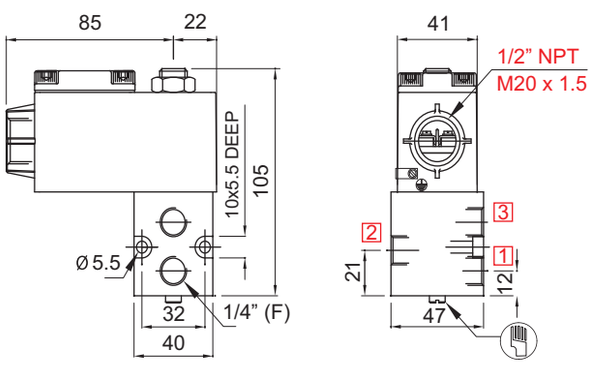


PLUG IN SOLENOID TYPE 22/ 25

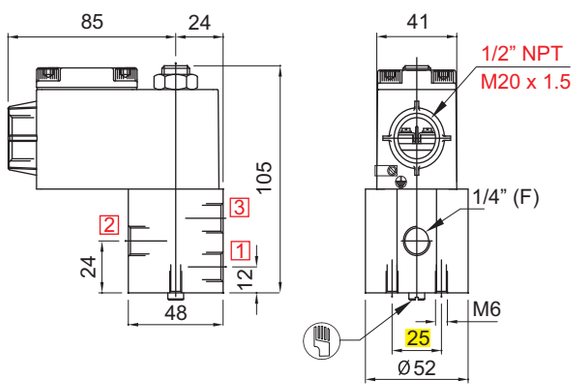


PLUG IN SOLENOID TYPE 22/ 25

CONSTRUCTION REFERENCE : 323



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



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

7

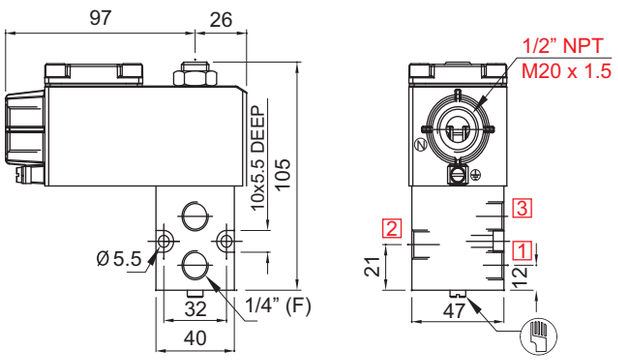
ROTEX
Engineering For The Future

3/2 DIRECT ACTING HIGH ORIFICE / UNIVERSAL SOLENOID VALVE

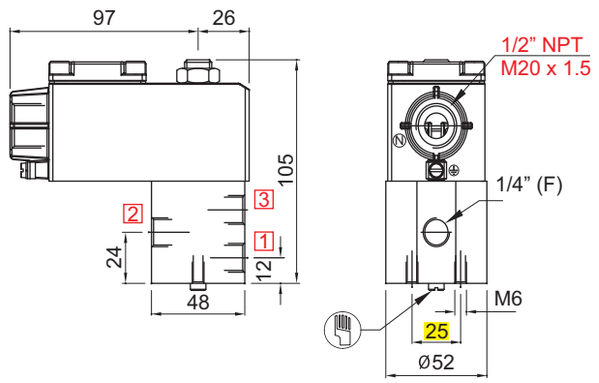
DIMENSIONS

All Dimensions are in mm

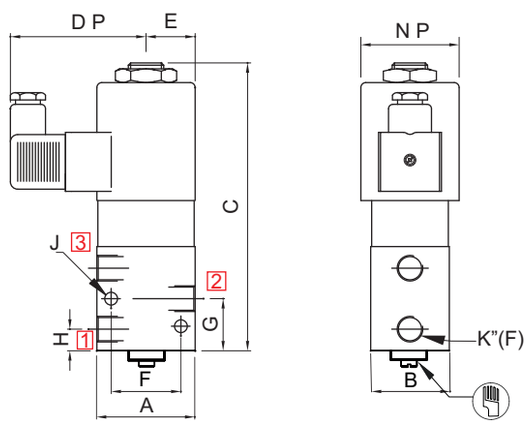
CONSTRUCTION REFERENCE : 323



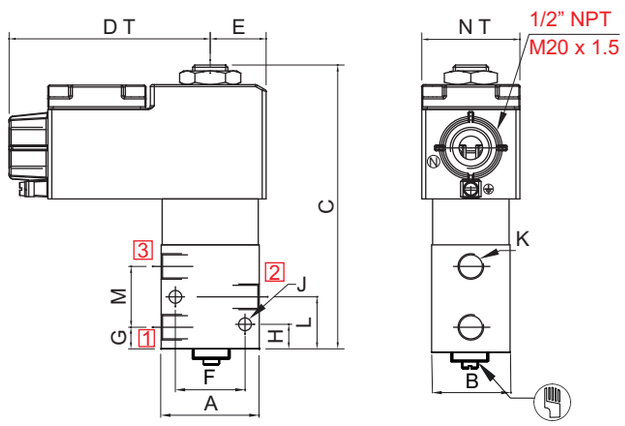
TERMINAL BOX/ Ex d/ LARGE ENCLOSURE, TYPE 16, 19, 37, 39, LC



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



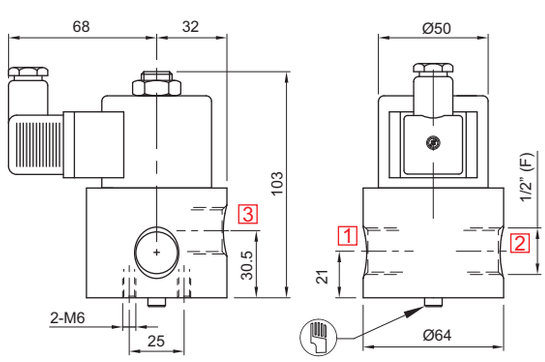
PLUG IN SOLENOID TYPE 25



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

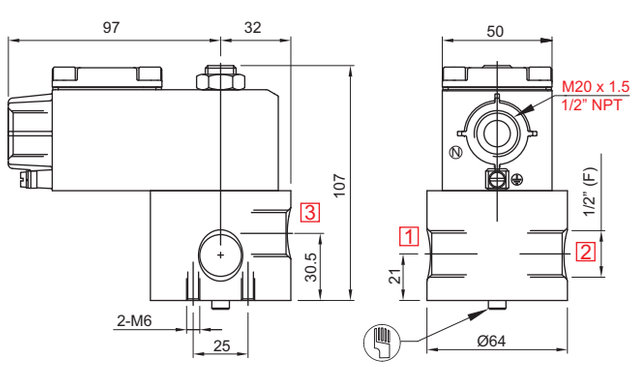
NW	K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L	M	N P	N T	CONST. REF.
VALVE TYPE : 30309, 30329																
7	1/4",3/8"	50	40	146	69	103	25	36	27	11	6.5	27	31	Ø50	M50	324
10	3/8",1/2"	60	50	160	69	103	30	38	35	16	6.5	35	36	Ø50	M50	325

CONSTRUCTION REFERENCE : 223



PLUG IN SOLENOID TYPE 25/ 22

VALVE TYPE 30333



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

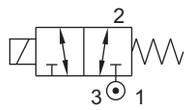
SERIES : 32D

3/2 DIRECT ACTING HIGH ORIFICE / UNIVERSAL SOLENOID VALVE

TYPE	PRESSURE

TYPE	PRESSURE

TYPE	PRESSURE
30334	0 - 10 bar

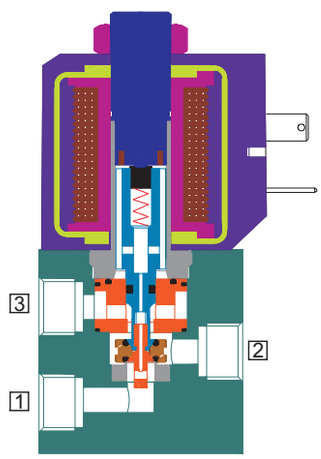


FEATURES

- 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 can be provided optionally

WETTED PARTS

Code			B2	B5
Body			Brass	SS 316
Internals			Brass and SS 316	SS 316
Guide Assembly	SS 304			
Shadow-Ring	Copper/ Silver/ None			
Plunger, Insert	SS 430			
Spring	SS 302			
Seat, Seals	NBR, Viton, EPDM, Viton GLT, F.Silicon			
Fasteners	SS 304			



AMBIENT TEMPERATURE

-25 ºC to 75 ºC

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) AM, WO
Special version : (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, c UL Listed general purpose Valve
- SIL4 approved 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, Springs, Manual Override	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
ISI		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCVEL			✓	✓		
PESO			✓	✓		
TECK			✓	✓		

⚠ For Valve type 30334 operated with AC voltage select Solenoid with in built full rectifier 'FR' option

ROTEX
Engineering For The Future

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
																					WEATHER PROOF				EXPLOSION PROOF										
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT) SS 316/ CF8M (STD. PORT NPT)		NBR	Viton	EPDM	Viton GLT	F.Silicon	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
							3/2 UNIVERSAL																										
1/4"	2G	2R	0	10	5	6	30334				B2	B5	※	S2		S2G	S19	※	M6	M8		22	25	T	E	III	14			8	8	8	325A

Cable Entry	T	E
M20 x 1.5	19	39
1/2" NPT	16	37

※ = 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

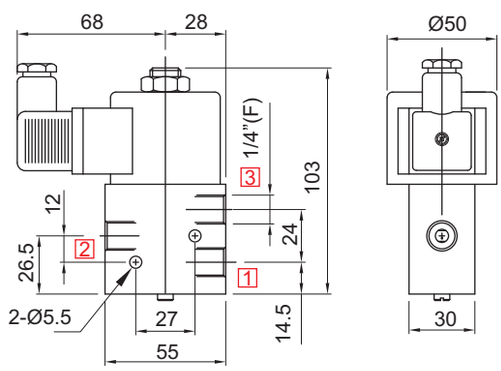
e.g. 30334-5-2R-B5-S2+220V AC-37-01-FR

DIMENSIONS

All Dimensions are in mm

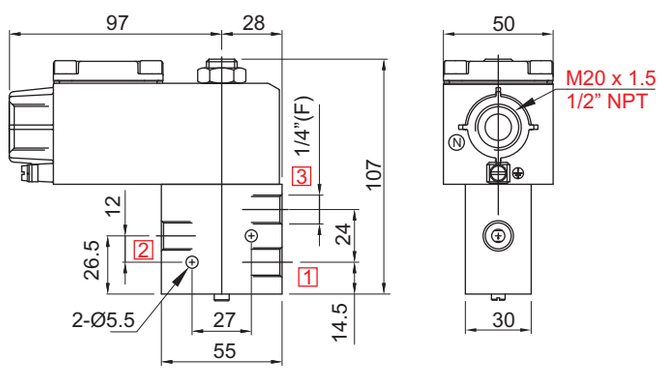
CONSTRUCTION REFERENCE : 325A

VALVE TYPE : 30334



MANUAL OVERRIDE OPTIONALLY PROVIDED

PLUG IN SOLENOID TYPE 22/ 25



MANUAL OVERRIDE OPTIONALLY PROVIDED

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

7

Specifications are subject to change without notice.

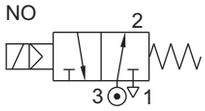
4

3/2 INTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN POPPET SOLENOID VALVE

TYPE	PRESSURE

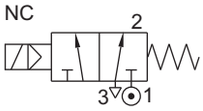
TYPE	PRESSURE
31209	2 - 10 bar
31210	3 - 20 bar
31206	3 - 40 bar

NO



TYPE	PRESSURE
31119	2 - 10 bar
31120	3 - 20 bar
31121	3 - 40 bar

NC

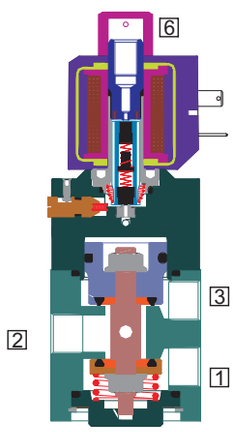


FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 600 cycles/ min
- Life >10 million cycles

WETTED PARTS

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



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

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

MEDIA

Air, Inert Gases

APPLICATION

Single acting actuator/ Cylinder, control valve actuation, ESD

PORT CONNECTION

FUNCTION	INLET	OUTLET	EXHAUST	PILOT EXHAUST	
NC	1	2	3	6	
NO	3	2	1	6	

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CEPEL			✓	✓		
PG			✓	✓		
IECEx			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- UL listed, c(UL)us Listed general purpose Valve
- SIL4 approved valve

The pressure drop at inlet port causes malfunction of the Valve. All equipment connected between the header and the inlet port should have a higher orifice kv value as compared to the solenoid Valve.

ROTEX
Engineering For The Future

3/2 INTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN POPPET SOLENOID VALVE

SPECIFICATION

PORT CONNECTION			PRE-SSURE bar						BODY MATERIAL AND INTERNALS				SEALS					MANUAL OVERRIDE			SOLENOID ENCLOSURE							SUFFIX		POWER VA			CONSTRUCTION REFERENCE NUMBER
																					WEATHER PROOF				EXPLOSION PROOF										
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM	ORIFICE (mm)	FLOW FACTOR kv (LPM OF WATER @ 1 bar ΔP)	VALVE TYPE	PILOT PRESSURE	ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	Viton GLT	F.Silicon	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FPJB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																	
			1	10	6	12	31119		※	B1	B2	B5	※	S2	S1			M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	326
1/4”	2G	2R	2	20	7	18	31120		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	327
			3	40	7	18	31121		※	B1	B2	B5	※	S2	S1		S19	※		M5	F		25	T	E		18		✓	13	13	13	328
			2	10	7	18	31119		※	B1	B2	B5	※	S2	S1		S19	※	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
			2	10	10	38	31119		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
			2	20	7	18	31120		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
3/8”	3G	3R	2	20	10	38	31120		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
			3	40	7	18	31121		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	328
			3	40	10	38	31121		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	328
			2	10	10	38	31119		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	339
			2	10	7	18	31119		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	339
			2	10	16	80	31119		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
			2	20	10	38	31120		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
1/2”	4G	4R	2	20	7	18	31120		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
			3	20	16	80	31120		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
			3	40	10	38	31121		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	329
			3	40	7	18	31121		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	329
			3	40	16	80	31121		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	340
			2	8	20	110	31119		※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	336
3/4”	6G	6R	3	20	20	110	31120		※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	336
			3	40	20	110	31121		※	B1		B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	341
			2	8	25	185	31119		※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	337
1”	8G	8R	3	20	25	185	31120		※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	337
			3	40	25	185	31121		※	B1		B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	342
3/2 NORMALLY OPEN																																	
			1	10	6	12	31209		※	B1	B2	B5	※	S2	S1			M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	326
1/4”	2G	2R	2	20	7	18	31210		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	327
			3	40	7	18	31206		※	B1	B2	B5	※	S2	S1		S19	※		M5	F		25	T	E		18		✓	13	13	13	338
			2	10	7	18	31209		※	B1	B2	B5	※	S2	S1		S19	※	M12	M8	F	22	25	T	E	III	14		✓	18	12	8	338
			2	10	10	38	31209		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
			2	20	7	18	31210		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
3/8”	3G	3R	2	20	10	38	31210		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	328
			3	40	7	18	31206		※	B1	B2	B5	※	S2	S1		S19	※		M5	F		25	T	E		18		✓	13	13	13	328
			3	40	10	38	31206		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	339
			2	10	10	38	31209		※	B1	B2	B5	※	S2	S1		S19	※	M12	M8	F	22	25	T	E	III	14		✓	18	12	8	339
			2	10	7	18	31209		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	339
			2	10	16	80	31209		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
			2	20	10	38	31210		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
1/2”	4G	4R	2	20	7	18	31210		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
			3	20	16	80	31210		※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	329
			3	40	10	38	31206		※	B1	B2	B5	※	S2	S1		S19	※		M5	F		25	T	E		18		✓	13	13	13	329
			3	40	7	18	31206		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	329
			3	40	16	80	31206		※	B1	B2	B5	※	S2	S1		S19	※	M12	M5	F		25	T	E		18		✓	13	13	13	340
			2	8	20	110	31209		※	B1		B5	※	S2	S1		S19	※	M12	M8	F	22	25	T	E	III	14		✓	18	12	8	336
3/4”	6G	6R	3	20	20	110	31210		※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	336
			3	40	20	110	31206		※	B1		B5	※	S2	S1		S19	※		M5	F		25	T	E		18		✓	13	13	13	341
			2	8	25	185	31209		※	B1		B5	※	S2	S1		S19	※	M12	M8	F	22	25	T	E	III	14		✓	18	12	8	337
1”	8G	8R	3	20	25	185	31210		※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	337
			3	40	25	185	31206		※	B1		B5	※	S2	S1		S19	※		M5	F		25	T	E		18		✓	13	13	13	342

Cable Entry	T	E
M20 x 1.5	19	39
1/2” NPT	16	37

	F
Flying lead IP54	※
Flying lead IP67	01

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

Specifications are subject to change without notice.

3/2 INTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN POPPET SOLENOID VALVE

ORDERING CODE AND EXAMPLE

VALVE + SOLENOID

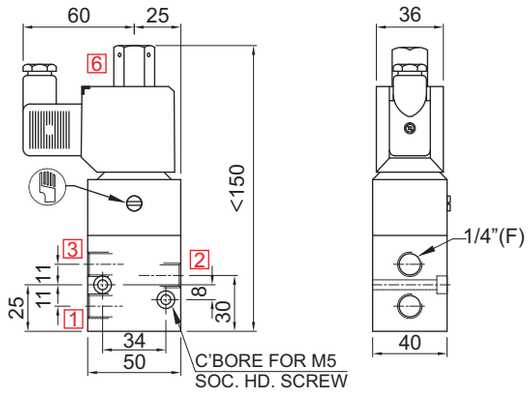
TYPE – SUFFIX – ORIFICE – PORT CONNECTION – BODY AND INTERNALS – MANUAL OVERRIDE – SEAL + SIZE – VOLTAGE – CURRENT – SOLENOID ENCLOSURE – APPROVAL – INSULATION – SPECIAL VERSION

e.g. 31119-6-2G+24V DC-16; 31121-16-4R-B2-S2+110V DC-37

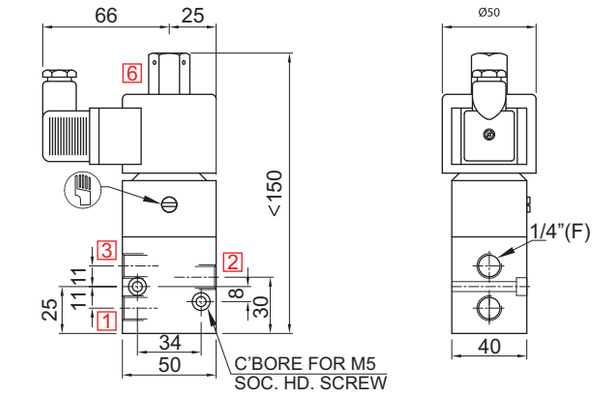
DIMENSIONS

All Dimensions are in mm

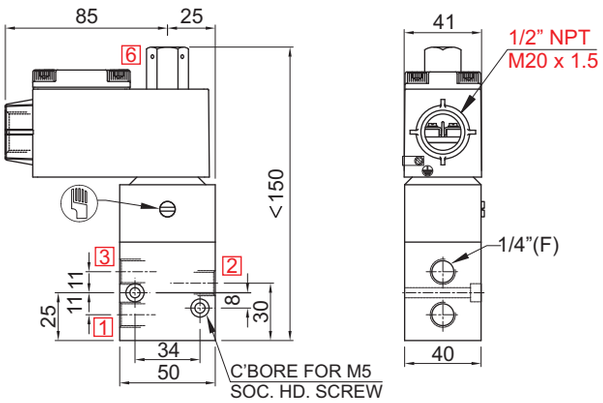
CONSTRUCTION REFERENCE : 326



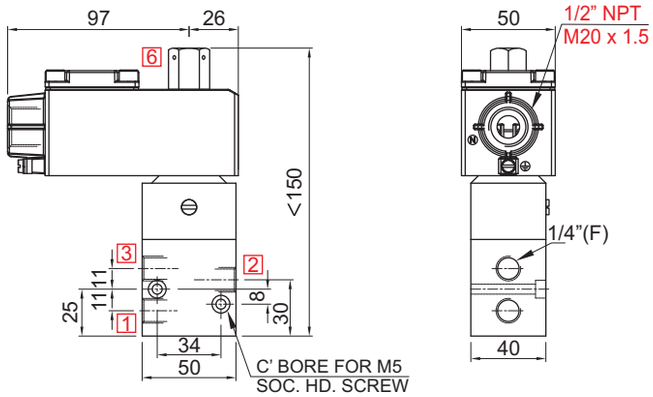
PLUG IN SOLENOID TYPE 22



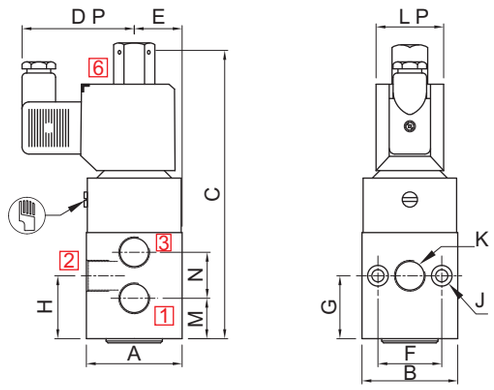
PLUG IN SOLENOID TYPE 25



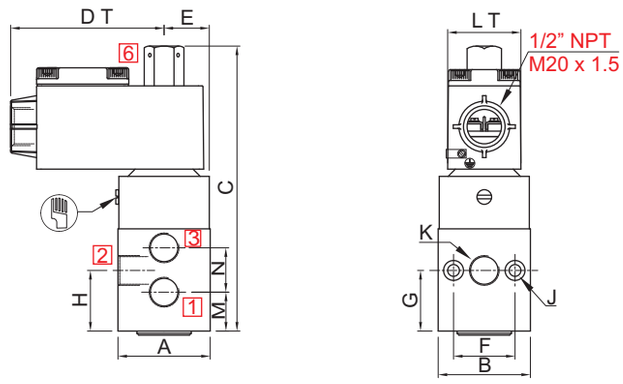
TERMINAL BOX/ Ex d/ TYPE 16, 19, 37, 39



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



PLUG IN SOLENOID TYPE 22



TERMINAL BOX/ Ex d. ENCLOSURE, TYPE 16, 19, 37, 39

NW	K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L P	L T	M	N	CONST. REF.
VALVE TYPE : 31119, 31120, 31209, 31210,31121, 31211* AND 31206*																
7	1/4"	51	51	154	60	85	25	34	34	34	M6	36	41	21	25	327
10	3/8"	61	61	168	60	85	30	34	36	36	M6	36	41	23	27	328
16	1/2"	81	81	191	60	85	40	50	48	48	M8	36	41	30	36	329

C*= C+20-for valve type 31121 and 31206

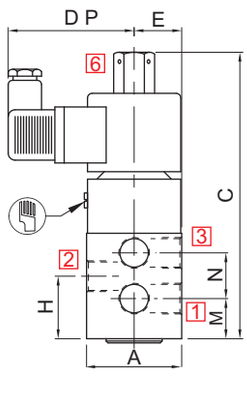
Specifications are subject to change without notice.

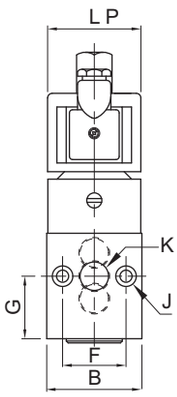
ROTEX
Engineering For The Future

3/2 INTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN POPPET SOLENOID VALVE

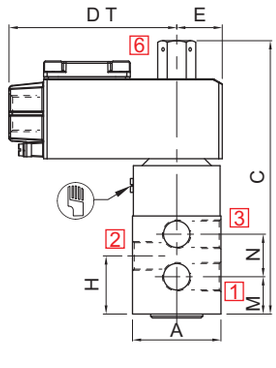
DIMENSIONS

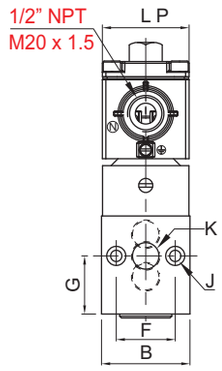
All Dimensions are in mm





PLUG IN SOLENOID TYPE 25



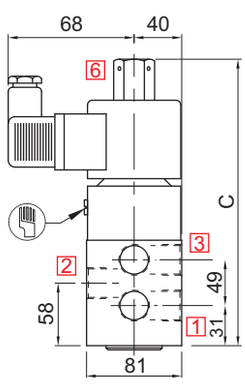


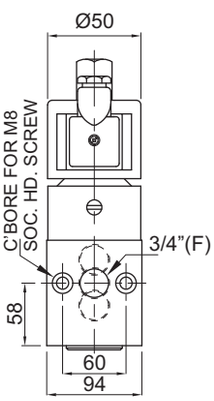
TERMINAL BOX/ Ex d LARGE ENCLOSURE, TYPE 16, 19, 37, 39

NW	K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L P	L T	M	N	CONST. REF.
VALVE TYPE : 31119, 31120, 31209, 31210, 31121*, 31206*																
7	1/4"	51	51	150	68	97	25	34	34	34	M6	Ø50	50	22	25	330
10	3/8"	61	61	165	68	97	30	34	36	36	M6	Ø50	50	23	27	331
16	1/2"	81	81	187	68	97	40	50	48	48	M8	Ø50	50	30	36	332

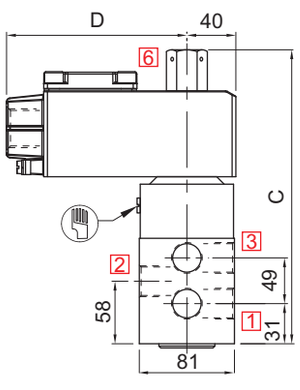
C*=C+20 for valve type 31121, 31206

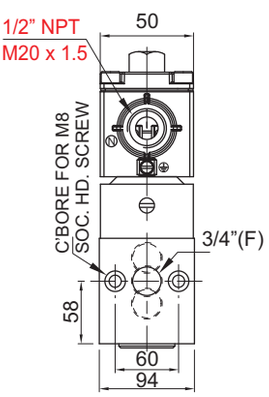
CONSTRUCTION REFERENCE : 336





PLUG IN SOLENOID TYPE 22/ 25

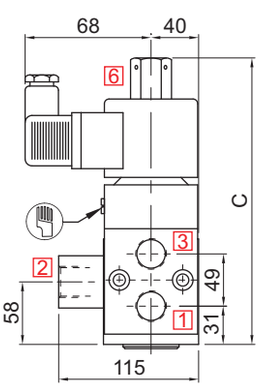


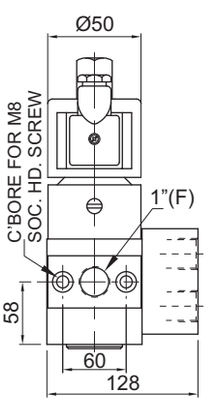


TERMINAL BOX/ Ex d LARGE ENCLOSURE, TYPE 16, 19, 37, 39

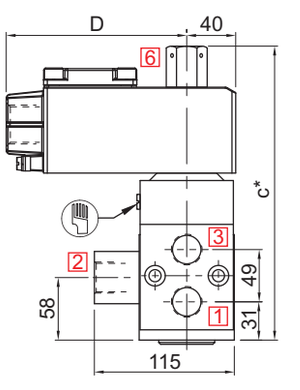
VALVE TYPE	C	CONST. REF.
31119, 31120, 31209, 31210	206	336
31121, 31211	208	341

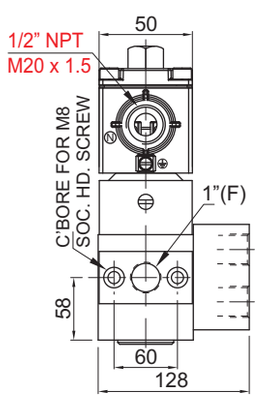
CONSTRUCTION REFERENCE : 337





PLUG IN SOLENOID TYPE 22/ 25





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

VALVE TYPE	C	CONST. REF.
31119, 31120, 31209, 31210	206	337
31121, 31211	218	342

Specifications are subject to change without notice.

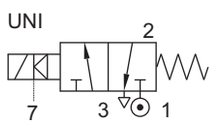
SERIES : 32P

3/2 EXTERNAL PILOT OPERATED, UNIVERSAL POPPET SOLENOID VALVE

TYPE	PRESSURE

TYPE	PRESSURE

TYPE	PRESSURE
32301	0 - 20 bar

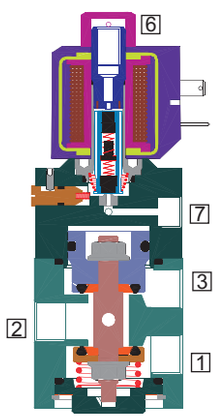


FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 600 cycles/ min.
- Life >10 million cycles

WETTED PARTS

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



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

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

MEDIA

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

APPLICATION

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

PORT CONNECTION

	INLET	OUTLET	EXHAUST	PILOT INLET	PILOT EXHAUST
NC	1	2	3	7	6
NO	3	2	1	7	6
Mixing	1 and 3	2		7	6
Diverting	2	1 and 3		7	6

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL

(* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCOE			✓	✓		
PESO			✓	✓		
IECEx			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- UL listed, c(UL)us Listed general purpose Valve
- SIL4 approved valve

⚠ When valve is used for NC/ NO application, the Pilot pressure should be minimum 2 bar or ≥ main fluid pressure whichever is higher.
When valve is used for diverting mixing application, the pilot pressure should be at least 2 bar higher than main fluid pressure.

ROTEX
Engineering For The Future

3/2 EXTERNAL PILOT OPERATED, UNIVERSAL SOLENOID VALVE

SPECIFICATION

PORT CONNECTION			PRESSURE 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
																					WEATHER PROOF				EXPLOSION PROOF									
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT) SS 316/ CF8M (STD. PORT NPT)		NBR	Viton	EPDM	Viton GLT	F.Silicon	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 UNIVERSAL																																
1/4”	2G	2R	0	20	7	18	32301	2-20	※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	350
3/8”	3G	3R	0	20	7	18	32301	2-20	※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	354
			0	20	10	38	32301	2-20	※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	351
1/2”	4G	4R	0	20	7	18	32301	2-20	※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	354
			0	20	16	80	32301	2-20	※	B1	B2	B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	352
3/4”	6G	6R	0	20	20	110	32301	2-20	※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	353
1”	8G	8R	0	20	25	185	32301	2-20	※	B1		B5	※	S2	S1		S19	M0	※	M8	F	22	25	T	E	III	14		✓	18	12	8	376

Cable Entry	T	E
M20 x 1.5	19	39
1/2” NPT	16	37

	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

ORDERING CODE AND EXAMPLE

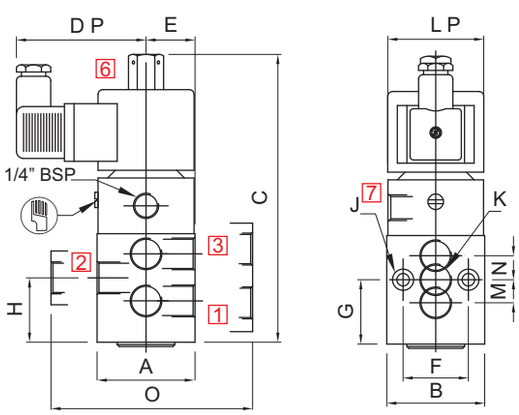
VALVE + SOLENOID

TYPE – SUFFIX – ORIFICE – PORT CONNECTION – BODY AND INTERNALS – MANUAL OVERRIDE – SEAL + SIZE – VOLTAGE – CURRENT – SOLENOID ENCLOSURE – APPROVAL – INSULATION – SPECIAL VERSION

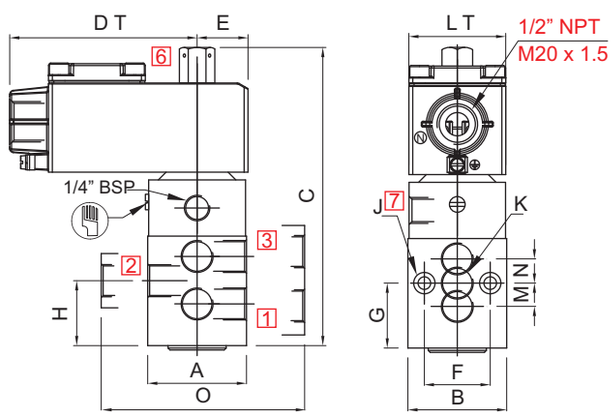
e.g. 32301-16-4R-B5-S2-M8+110V DC-39-III

DIMENSIONS

All Dimensions are in mm



PLUG IN SOLENOID TYPE 22/ 25



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

K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L P	L T	M	N	O	CONST. REF.
VALVE TYPE : 32301-6, 32301-7, 32301-10, 32301-16, 32301-20, 32301-7																
1/4”	50	40	149	68	97	26	34	34	34	M6	Ø50	50	11	11		349
1/4”	51	51	154	68	97	26	34	34	34	M6	Ø50	50	12	12		350
3/8”	61	61	165	68	97	30	34	36	36	M6	Ø50	50	14	14		351
1/2”	81	81	187	68	97	40	50	48	48	M8	Ø50	50	18	18		352
3/4”	94	81	204	68	97	40	50	58	58	M8	Ø50	50	24	24		353
3/8”, 1/2”	51	51	154	68	97	26	34	34	34	M6	Ø50	50	12	12	105	354
1”	115	128	204	68	97	40	60	58	58	M8	Ø50	50	24	24	105	376

Specifications are subject to change without notice.

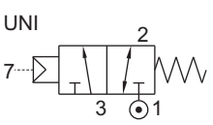
ROTEX
Engineering For The Future

3/2 AIR OPERATED SPRING RETURN VALVE

TYPE	PRESSURE

TYPE	PRESSURE

TYPE	PRESSURE
33101	0 - 20 bar

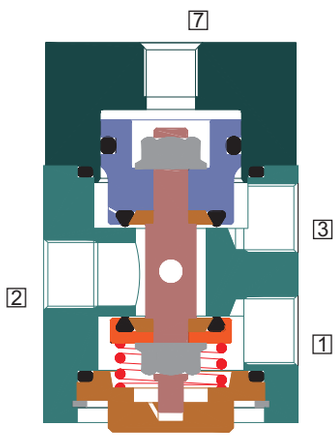


FEATURES

- Highly reliable rugged construction
- Positive Sealing and snap operation with poppet design
- Bubble tight shut off
- Vibration resistance up to 9g
- Can be used as NC/ NO/ Diverting/ Mixing
- Can be mounted in any position
- Life >10 million cycles
- Speed up to 600 cycles/ min.

WETTED PARTS

Code	※	B1	B2	B5
Body	Anodized Aluminium	Anodized Aluminium	Brass	SS 316
Internals	Aluminium, Brass and SS 316	SS 316	Brass and SS 316	SS 316
Spring/ Circlip	SS 302/ Steel Plated			
Fasteners	SS 304			
Seat, Seals	NBR, Viton			



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) OX, AM

MEDIA

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

APPLICATION

Quick operation of cylinder Actuator

SPARES (Refer page 25 for ordering code)

SPARE KIT	CODE
Seal Kit : Oring Set	98
Repair Kit : Oring Set, Fastener, Springs	99

PORT CONNECTION

	INLET	OUTLET	EXHAUST	EXTERNAL PILOT INLET
NC	1	2	3	7
NO	3	2	1	7
Diverting	2	1 and 3	-	7
Mixing	1 and 3	2	-	7

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- SIL4 approved valve

⚠ When valve is used for NC/ NO application, the Pilot pressure should be minimum 2 bar or ≥ main fluid pressure whichever is higher. When valve is used for diverting/ mixing application, the pilot pressure should be at least 2 bar higher than main fluid pressure.

ROTEX
Engineering For The Future

3/2 AIR OPERATED SPRING RETURN 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
																					WEATHER PROOF				EXPLOSION PROOF										
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FPJB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 UNIVERSAL																																
1/4"	2G	2R	0	20	7	18	33101	2-20	※	B1	B2	B5	※	S2	S1														✓				355
3/8"	3G	3R	0	20	7	18	33101	2-20	※	B1	B2	B5	※	S2	S1														✓				359
			0	20	10	38	33101	2-20	※	B1	B2	B5	※	S2	S1														✓				356
1/2"	4G	4R	0	20	7	18	33101	2-20	※	B1	B2	B5	※	S2	S1														✓				360
			0	20	16	80	33101	2-20	※	B1	B2	B5	※	S2	S1														✓				357
3/4"	6G	6R	0	20	20	110	33101	2-20	※	B1		B5	※	S2	S1														✓				358
1"	8G	8R	0	20	25	185	33101	2-20	※	B1		B5	※	S2	S1														✓				362

※ = Do not specify when opted for Refer Page # 22 for Value of ※

* Valve type printed in red colour is external pilot air/ air operated valve

ORDERING CODE AND EXAMPLE

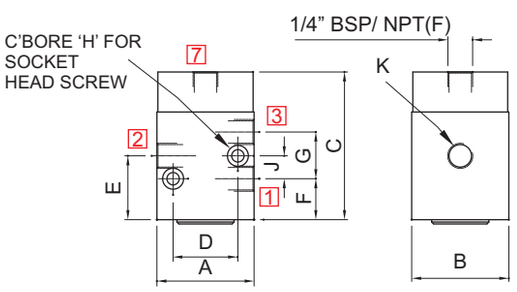
VALVE

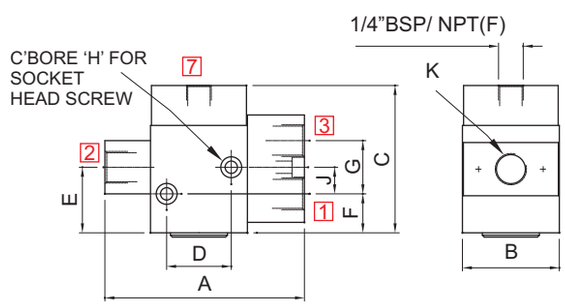
TYPE – SUFFIX – ORIFICE – PORT CONNECTION – BODY AND INTERNALS – SEAL

e.g. 33101-10-3R-B5

DIMENSIONS

All Dimensions are in mm



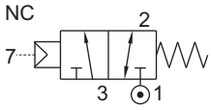


NW	K (PORT SIZE)	A	B	C	D	E	F	CONST. REF.
VALVE TYPE : 33101								
7	1/4"	51	51	77	34	21	25	355
10	3/8"	61	61	90	36	23	27	356
16	1/2"	81	81	111	48	30	36	357
20	3/4"	94	81	128	58	31	49	358

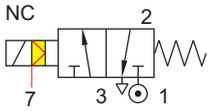
NW	K (PORT SIZE)	A	B	C	D	E	F	CONST. REF.
VALVE TYPE : 33101								
7	3/8"	111	51	77	34	21	25	359
7	1/2"	111	51	77	34	21	25	360
10	1/2"	121	61	90	36	23	27	361
25	1"	141	81	128	58	31	49	362

3/2 LARGE ORIFICE VALVE

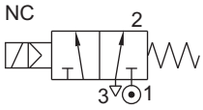
TYPE	PRESSURE
33101	0 - 10 bar



TYPE	PRESSURE
32101	0 - 10 bar



TYPE	PRESSURE
31119	2 - 10 bar



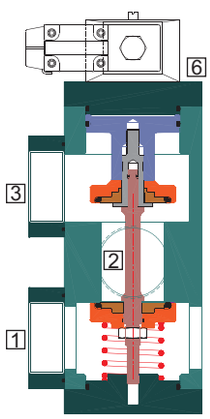
FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 100 cycles/ min
- Life >5 million cycles

WETTED PARTS

Code	※	B1		B5
Body	Anodized Aluminium	Anodized Aluminium		SS 316
Internals	Aluminium, Brass and SS 316	SS 316		SS 316

Guide Assembly	SS 304
Shadow-Ring	Copper/ Silver/ None
Plunger, Insert	SS 430
Spring	SS 302
Seat, Seals	NBR, Viton
Fasteners	SS 304



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) AM, WO
Special versions : (Solenoid) CO, FR, SS, LC

MEDIA

Air, Inert Gases

APPLICATION

Single acting actuator/ Cylinder, control valve actuation. Shut off valve

PORT CONNECTION

FUNCTION	INLET	OUTLET	EXHAUST
NC	1	2	3

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
ISI		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCPEL			✓	✓		
PESO			✓	✓		
IECEx			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application

Valve type 32101 and 33301 When used for NC/ NO application, the Pilot pressure should be minimum 2 bar or ≥ main fluid pressure whichever is higher.

ROTEX
Engineering For The Future

3/2 LARGE ORIFICE 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
																			WEATHER PROOF				EXPLOSION PROOF								
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT) SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																															
11/4"	10G	10R	2	10	32	300	31119		※			※	S2				※	M6	M8			25	T	E		18		✓	11	11	11	365
11/2"	12G	12R	2	10	40	400	31119		※			※	S2				※	M6	M8			25	T	E		18		✓	11	11	11	365
2"	16G	16R	2	10	50	600	31119		※			※	S2				※	M6	M8			25	T	E		18		✓	11	11	11	367
3/2 NORMALLY CLOSED EXTERNAL PILOT OPERATED																															
11/4"	10G	10R	0	10	32	300	32101	2-10	※			※	S2				※	M6	M8			25	T	E		18		✓	11	11	11	365
11/2"	12G	12R	0	10	40	400	32101	2-10	※			※	S2				※	M6	M8			25	T	E		18		✓	11	11	11	365
2"	16G	16R	0	10	50	600	32101	2-10	※			※	S2				※	M6	M8			25	T	E		18		✓	11	11	11	367
3/2 NORMALLY CLOSED PILOT AIR OPERATED																															
11/4"	10G	10R	0	10	32	300	33101	2-10	※			※	S2				※														368
11/2"	12G	12R	0	10	40	400	33101	2-10	※			※	S2				※														365
2"	16G	16R	0	10	50	600	33101	2-10	※			※	S2				※														370

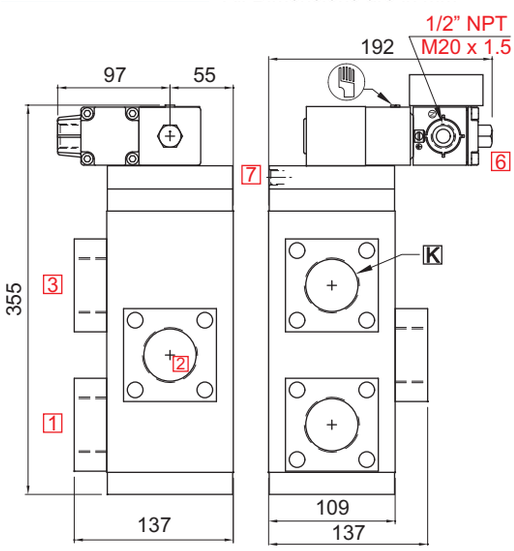
Cable Entry	T	E
M20 x 1.5	19	39
1/2" NPT	16	37

※ = 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

DIMENSIONS

All Dimensions are in mm

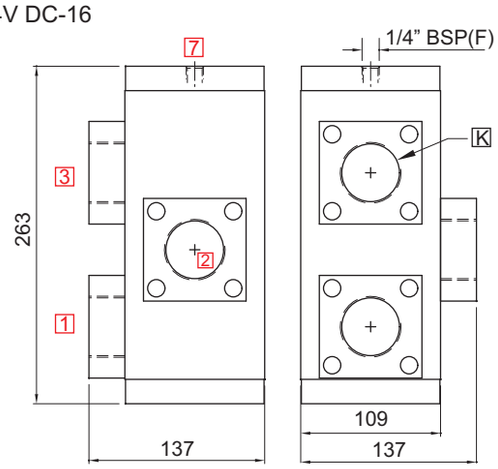


TERMINAL BOX/ Ex d. LARGE ENCLOSURE TYPE 16, 19, 37, 39, LC

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. 31119-40-12G+24V DC-16



AIR OPERATED VALVE

NW	K (PORT SIZE)	CONST. REF.
VALVE TYPE : 31119, 32301		
32	11/4"	365
40	11/2"	365
50	2"	367

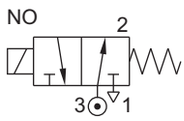
NW	K (PORT SIZE)	CONST. REF.
VALVE TYPE : 33101		
32	11/4"	368
40	11/2"	368
50	2"	370

Specifications are subject to change without notice.

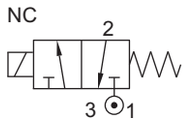
3/2 DIRECT ACTING, NC/ NO HIGH PRESSURE (150 bar) SOLENOID VALVE

TYPE	PRESSURE

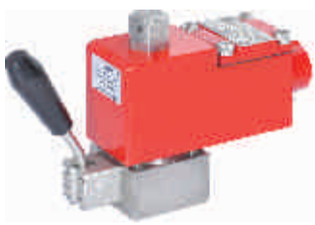
TYPE	PRESSURE
30252	0 - 150 bar



TYPE	PRESSURE
30152	0 - 150 bar



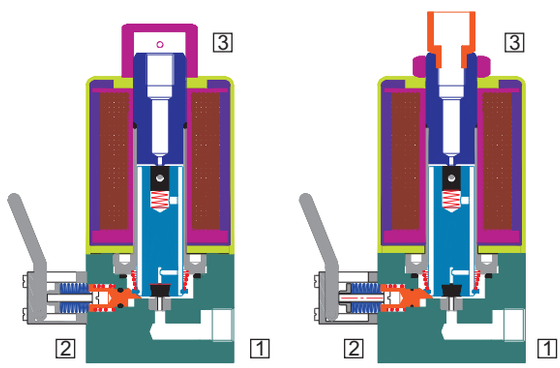
FEATURES



- 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 300 cycles/ min
- Life >10 million cycles
- Manual override optionally provided

WETTED PARTS

Code	※		B5
Body	Anodized Aluminium		SS 316
Internals	Aluminium		SS 316
Guide Assembly	SS 304		
Shadow-Ring	None		
Plunger, Insert	SS 430		
Spring	SS 302		
Seat, Seals	PTFE + Viton		
Fastener	SS 304		



AMBIENT TEMPERATURE

-25 ºC to 75 ºC

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) AM, WO
Special version : (Solenoid) CO, FR, SS, LC

MEDIA

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

APPLICATION

High Pressure Application

PORT CONNECTION

FUNCTION	INLET	OUTLET	EXHAUST
NC	1	2	3
NO	3	2	1

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	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (★ applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
ISI		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCVCEPEL			✓	✓		
PCC			✓	✓		
IECEx			✓	✓		

Contact Rotex for
- Any other ambient, fluid temperature, media and application

ROTEX
Engineering For The Future

3/2 DIRECT ACTING, NC/ NO HIGH PRESSURE (150 bar) 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
																					WEATHER PROOF			EXPLOSION PROOF									
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	HYTREL	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																
1/4”		2R	0	150	0.8	0.6	30152		※			B5					※	※	M11	M4			25	T	E		18		✓	13	13	13	363
			0	150	0.8	0.6	30152		※			B5					※	※	M11	M4			25	T	E		18		✓	13	13	13	364
3/2 NORMALLY OPEN																																
1/4”	2G	2R	0	150	0.8	0.6	30252		※			B5					※	※	M11	M4			25	T	E		18		✓	13	13	13	363
1/2”	4G	4R	0	150	0.8	0.6	30252		※			B5					※	※	M11	M4			25	T	E		18		✓	13	13	13	364

Cable Entry	T	E
M20 x 1.5	19	39
1/2” NPT	16	37

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

ORDERING CODE AND EXAMPLE

VALVE + SOLENOID

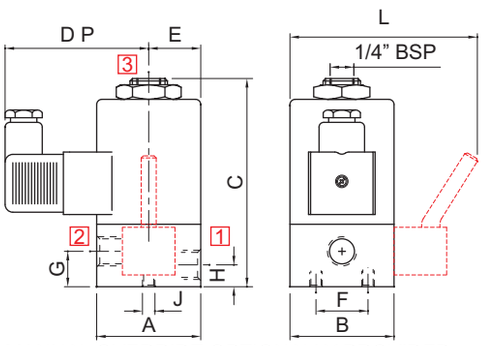
TYPE – SUFFIX – ORIFICE – PORT CONNECTION – BODY AND INTERNALS – MANUAL OVERRIDE – SEAL + SIZE – VOLTAGE – CURRENT – SOLENOID ENCLOSURE – APPROVAL – INSULATION – SPECIAL VERSION

e.g. 30152-0.8-2R-B2-M4+220V 50Hz-25

7

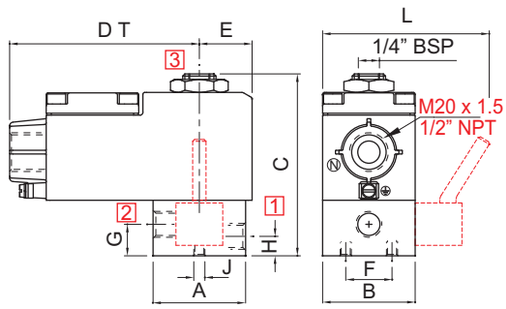
DIMENSIONS

All Dimensions are in mm



MANUAL OVERRIDE OPTIONALLY PROVIDED

SQ. PLUG IN SOLENOID TYPE 25



MANUAL OVERRIDE OPTIONALLY PROVIDED

TERMINAL BOX/Ex d TYPE 16,19,37,39,LC

K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L	CONST. REF.
VALVE TYPE : 30152 (WITH MA)												
1/4”	50	50	101	68	103	25	25	17	11	M6	90	363
VALVE TYPE : 30152												
1/4”	50	50	101	68	103	25	25	17	11	M6	Ø50	363

Specifications are subject to change without notice.

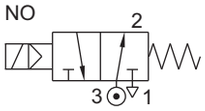
2

3/2 INTERNAL PILOT OPERATED, NC/ NO HIGH PRESSURE SOLENOID VALVE

TYPE	PRESSURE

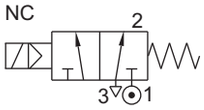
TYPE	PRESSURE
31207	4 - 70 bar

NO



TYPE	PRESSURE
31122	4 - 70 bar

NC

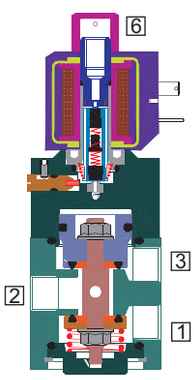


FEATURES

- Bubble tight shut off
- Mounts in any position
- Vibration resistance up to 9g
- Suitable for high speed cycling
- Speed up to 300 cycles/ min
- Life >3 million cycles
- Manual override optionally provided

WETTED PARTS

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



AMBIENT AND FLUID TEMPERATURE

-25 °C to 75 °C

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) AM, WO
Special version : (Solenoid) CO, FR, SS, LC

MEDIA

Air, Inert Gases, Water

APPLICATION

Single acting actuator/ Cylinder, control valve actuation

PORT CONNECTION

FUNCTION	INLET	OUTLET	EXHAUST	PILOT EXHAUST
NC	1	2	3	6
NO	3	2	1	6

Contact Rotex for
- Any other ambient, fluid temperature, media and application
- SIL4 approved 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, Fasteners, Springs, Manual Override	99
Solenoid Kit : Solenoid, Gasket and Nut	34

APPROVAL (* applied for)

Approval	Nema 4X	IP67	Ex d IIC T4 or T5 or T6 IP66	Ex ia IIC T6 IP67	DGMS	CCOE
		✓	✓	✓	✓	✓
CE		✓	✓	✓		
UL	✓		*			
CCPEL			✓	✓		
PG			✓	✓		
TECSY			✓	✓		

7

ROTEX
Engineering For The Future

3/2 INTERNAL PILOT OPERATED NC/ NO HIGH PRESSURE 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
																					WEATHER PROOF				EXPLOSION PROOF									
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316/ CF8M (STD. PORT NPT)	NBR	Viton	EPDM	F.Silicon	PTFE	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	FLYING LEAD	PLUG IN, IP67	SQ. PLUG IN, IP67	TERMINAL BOX IP67	FP JB Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	AC HOLDING	DC	
3/2 NORMALLY CLOSED																																
1/4"	2G	2R	4	70	7	18	31122				B2	※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	372
3/8"	3G	3R	4	70	10	38	31122				B2	※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	373
1/2"	4G	4R	4	70	16	75	31122				B2	※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	374
3/4"	6G	6R	4	70	20	110	31122					※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	375
1"	8G	8R	4	70	25	185	31122					※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	
3/2 NORMALLY OPEN																																
1/4"	2G	2R	4	70	7	18	31207				B2	※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	372
3/8"	3G	3R	4	70	10	38	31207				B2	※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	373
1/2"	4G	4R	4	70	16	75	31207				B2	※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	374
3/4"	6G	6R	4	70	20	110	31207					※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	375
1"	8G	8R	4	70	25	185	31207					※				S19	※	※	M11	M4			25	T	E		18		✓	13	13	13	

Cable Entry	T	E
M20 x 1.5	19	39
1/2" NPT	16	37

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

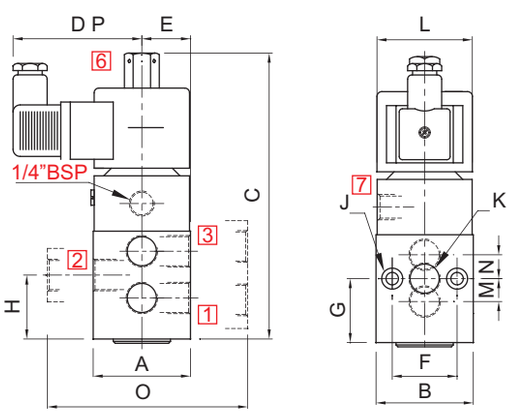
ORDERING CODE AND EXAMPLE

VALVE + SOLENOID

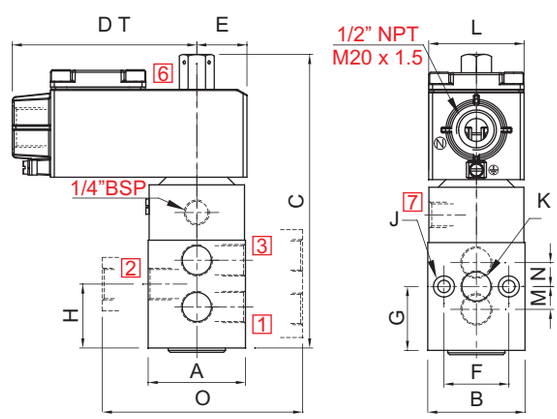
TYPE - SUFFIX - ORIFICE - PORT CONNECTION
BODY AND INTERNALS - MANUAL OVERRIDE - SEAL+
SIZE - VOLTAGE - CURRENT - SOLENOID ENCLOSURE
- APPROVAL - INSULATION - SPECIAL VERSION
e.g. 31122-10-3R+110V DC-39

DIMENSIONS

All Dimensions are in mm



PLUG IN SOLENOID TYPE 25



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

K (PORT SIZE)	A	B	C	D P	D T	E	F	G	H	J	L P	L T	M	N	CONST. REF.
VALVE TYPE : 31122, 31207															
1/4"	51	51	154	68		26	34	34	34	M6		50	12	12	372
3/8"	61	61	165	68		30	34	36	36	M6		50	14	14	373
1/2"	81	81	187	68		40	50	48	48	M8		50	18	18	374
3/4"	94	81	204	68		40	50	58	58	M8		50	24	24	375
1"	115	128	217	68		40	60	58	58	M8		50	24	24	376

Specifications are subject to change without notice.

SELECTION GUIDE : SEALS

ROTEX offers variety of solution in seals for various applications. The seals are to be selected on the basis of their compatibility to media., temperature and pressure etc. Seal material will be generally selected by Rotex depending upon media, media pressure and temperature. For best results, it will be better to consult Rotex

(1) NBR (Buna-N, Nitrile etc.)

Fitted as a standard in ROTEX products

Suitable for all general application up to a ambient/ media temperature of -25 °C to 75 °C

(2) EPDM (Ethylene Propylene Di-Methyl) (S1)

Excellent for Nuclear applications, especially for exposure to Radiation. (GRADE R13)
Moderate corrosion resistance
Excellent shelf life

Ideal for high temperature air, water and steam up to -60 °C to 140 °C

(3) Viton (S2)

Ideal for high temperature media/ environment
Ideal for corrosive applications
Excellent shelf life

Media temperature up to -20 °C to 160 °C

(4) NEOPRENE (S3)

Ideal for use with oils
Good shelf life
Suitable for refrigerant application
Should be opted for hydro carbon media

Media temperature -40°C to 100 °C

(5) F.SILICON (S19)

Ideal for high temperature
Good for medical application
Good corrosion resistance

Media Temperature up to -70 °C to 190 °C

(6) PTFE (S4)

Ideal for most media
Do not use as a standard unless application really calls for PTFE
Nearly unlimited shelf life
Not recommended for Radiation Exposure

Media temperature up to -70 °C to 200 °C

(7) SAPPHIRE (S6)

Excellent corrosion resistance
Ideal for high temperature up to 350 °C

Selected for service temperature above -196 °C + 350 °C

ROTEX valve can be provided with seat and seal material other than listed above.

(8) Viton GLT (S2G)

Ideal for high temperature media/ environment
Ideal for corrosive applications
Excellent shelf life

Media temperature up to -40 °C to 160 °C

(9) Hytrel (S11)

Used for replacing NBR diaphragm.
Excellent Resistance to most Chemicals and provides long life.

Media temperature up to 0 °C to 85 °C

Specifications are subject to change without notice