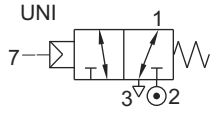


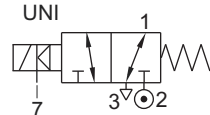
SERIES : 32P

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

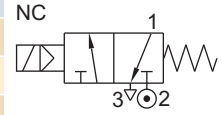
TYPE	PRESSURE
33347	0.7-10.5 bar



TYPE	PRESSURE
32347	0.7-10.5 bar



TYPE	PRESSURE
31147	0.7-10.5 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

-30 °C to 75 °C

SPECIAL VERSION AND SUFFIX

Suffix : (Valve) OX, AM
 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	EXTERNAL PILOT
NC	2	1	3	6	7
NO	3	1	2	6	7

Contact Rotex for

- Any other ambient, fluid temperature, media and application
- UL listed, CE Listed general purpose Valve
- Media like Water, Light Oil etc.

SPARES

(Refer page 25 for ordering code)

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

APPROVAL

(* applied for)

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



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.



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

SPECIFICATION

SIZE	PORT CONNECTION		PRE-SURE 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
	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	Ex d IIC, T4 OR T6, IP67	LARGE ENCLOSURE	SOLENOID SIZE	OXYGEN	AMONIA	
3/2 NORMALLY CLOSED																														
1/4"	2G	2R	0.7	10.5	7	18	31147		*	B1	B2	B5	*	S2	S1		M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8
3/2 EXTERNAL UNIVERSAL																														
1/4"	2G	2R	0.7	10.5	7	18	32347	2-10.5	*	B1	B2	B5	*	S2	S1		M0	*	M8	F	22	25	T	E	III	14	✓	18	12	8
3/2 AIR OPERATED																														
1/4"	2G	2R	0.7	10.5	7	18	33347	2-10.5	*	B1	B2	B5	*	S2	S1															

ORDERING CODE AND EXAMPLE VALVE + SOLENOID

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

e.g. 31147-7-2R-B5-S2+III-24V-DC-37-H

Cable Entry	T	E		
		0c/A	0c/Se	0c/A{ à
M20 x 1.5	FJ	HU	iiTÜ	iiTÜ iiSVTÜ
M25 x 1.5		ii	ii	iiŠv
1/2" NPT	Fí	Hí	iiPÜ	iiPÜ iiŠvPÜ

* = Do not specify when opted for
✓ = Options available

3/2 UNIVERSAL, INTRINSICALLY SAFE 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 EXPLOSION PROOF Ex ia IIC, T6, IP67				SUFFIX		POWER VA		CONSTRUCTION REFERENCE NUMBER
SIZE	BSP(F)	NPT(F)	MINIMUM	MAXIMUM					ALUMINIUM	ALUMINIUM + SS	BRASS (STD. PORT NPT)	SS 316 (STD. PORT NPT)	NBR	Viton	EPDM	F. Silicon	NIL	STAYPUT CUM MOMENTARY	MOMENTARY	LOW POWER IS PLUG IN	LOW POWER IS TERMINAL BOX	LOW POWER IS FPJB Ex d	IS Coil With Circuit Ex ia (d) IIC, T6, IP67	SOLENOID SIZE	OXYGEN	AMONIA	AC INRUSH	
3/2 UNIVERSAL																												
1/8"	1G	1R	0	1.5	3	4	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
1/8"	1G	1R	0	8	1.8	1.8	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
1/4"	2G	2R	0	1.5	3	4	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
			0	4	2.5	3.5	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
			0	5	2.2	2.5	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
			0	10	1.6	1.8	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
			0	14	1.2	0.7	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
3/8"	3G	3R	0	1.5	3	4	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
			0	8	1.8	1.8	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	A	
1/2"	4G	4R	0	1.5	3	4	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	B	
			0	4	2.5	3.5	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	B	
			0	5	2.2	2.5	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	B	
			0	10	1.6	1.8	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	B	
			0	14	1.2	0.7	30301		*	B2	B5	*	S2	S1	*	M6	M8			I	14	✓	✓			0.5	B	
3/2 EXTERNAL UNIVERSAL																												
1/4"	2G	2R	0.7	10.5	7	18	32347IS	2-10.5	*	B5	*	S2	S1	M0	*	M8	65CR	T	E						13	✓	0.4	

Cable Entry	Ex ia	
M20 x 1.5	iiTÜ	iiTÜ
M25 x 1.5	ii	ii
1/2" NPT	iiPÜ	iiPÜ

* = 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

Code	Construction Reference
A	908, 910
B	909, 910

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