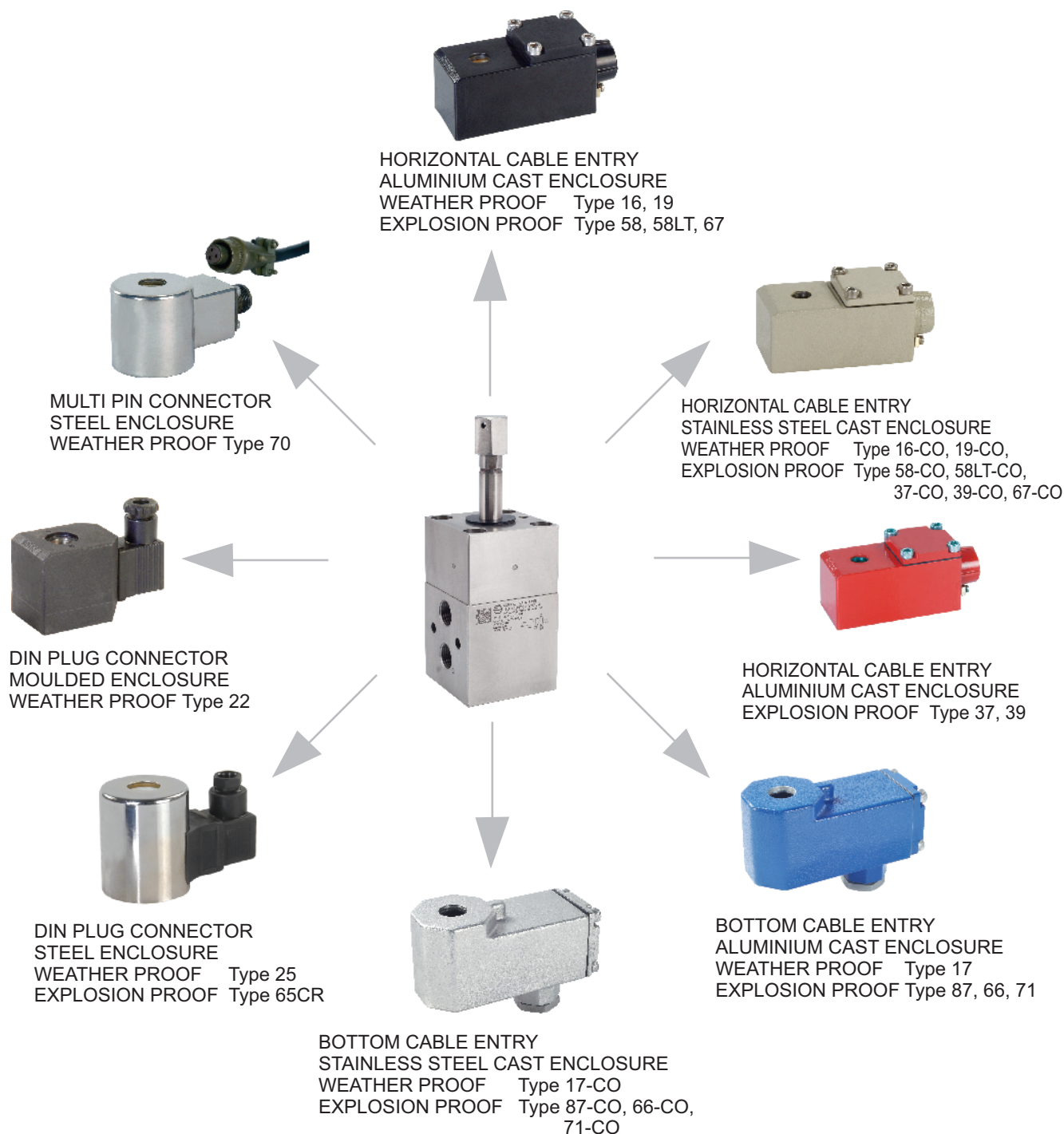


# 3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

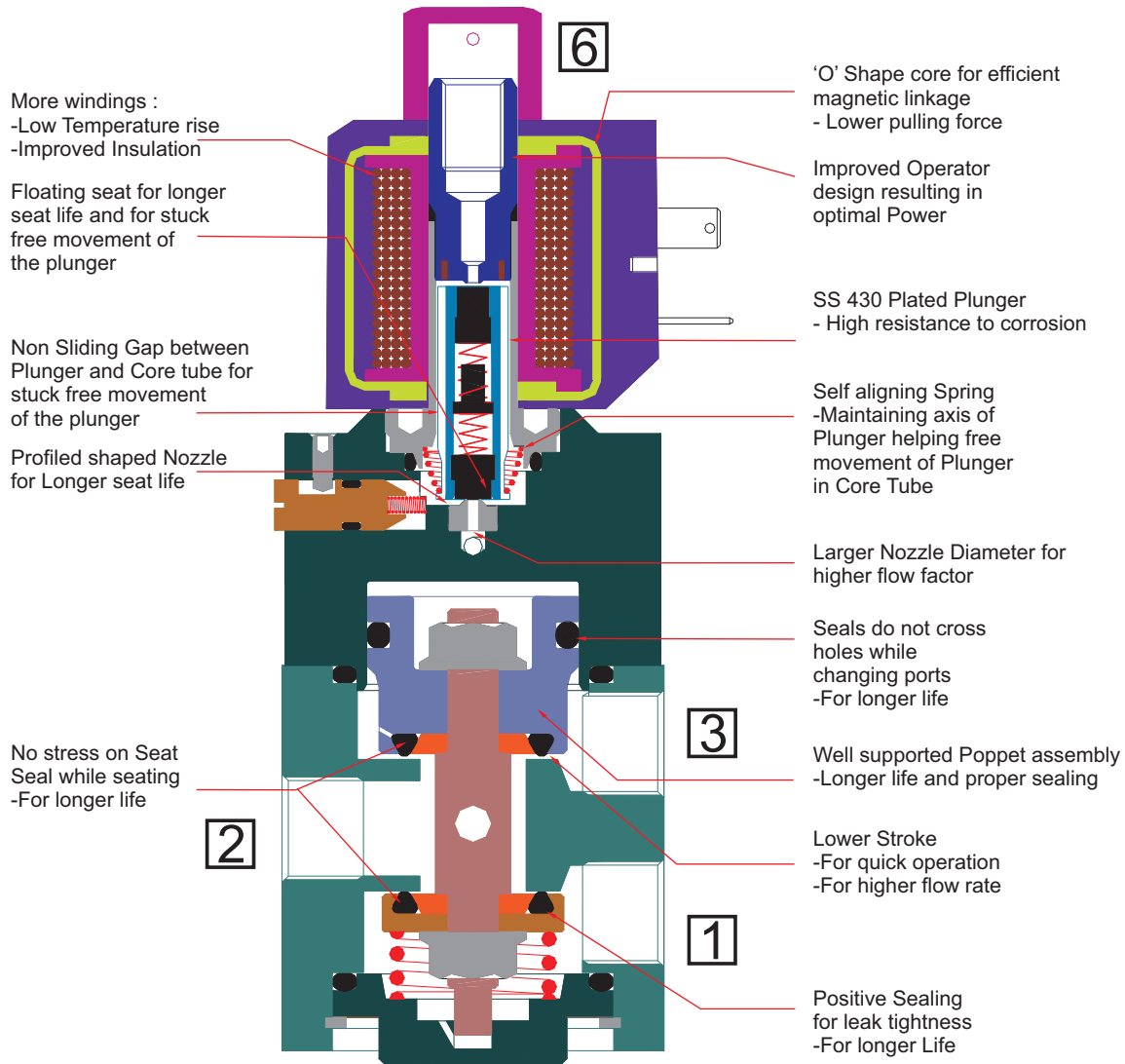


**Interchangeable across  
Voltage/ Current range without  
affecting performance of the Valve**

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

**FEATURES**

- Bubble tight shut OFF
- Mounts in any position
- Vibration resistance up to 9g
- Suitable for high speed cycling, speed upto 600 cycles/ min
- Life >20 million cycles
- 360° Swivellable solenoid for ease of cable routing



**WEIGHT IN kg. (Appx.)**

**Valve**

Orifice - Port Connection	Al	Brass	SS316
7-2G/ 2R	0.70	1.55	1.60
7-3G/ 3R/ 4G/ 4R	0.80	1.40	1.80
10-3G/ 3R	1.10	2.85	2.60
10-4G/ 4R	1.30	3.55	3.30
16-4G/ 4R	2.60	5.70	5.40
20-6G/ 6R	2.80	-	6.80
25-8G/ 8R	3.30	-	9.00

**Solenoid**

Type	Size	Type	Size	Enclosure	
				Al	SS
25, 65CR	I 0.25	16, 19, 37,	I	0.55	1.20
	II 0.45	39, 58,	II, IV	0.85	1.70
	III 0.40	58LT, 67	III	0.60	1.50
	IV 0.50	17, 66,	II, IV	1.00	1.65
		71, 87	III	0.90	1.50

**VOLTAGE VARIATION**

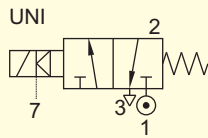
(For Continuous Duty)

Rated Voltage	Operating Voltage
6	4.8V to 7.2V
12	9.6V to 14.4V
24	19.2V to 28.8V
48	38.4V to 57.6V
110 to 120	88V to 132V
220/ 230/ 240	176V to 264V
256	205V to 280V

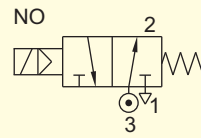
**SERIES : 32P**

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

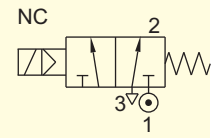
TYPE	PRESSURE
32301	0 - 20 bar
P3006	0 - 10 bar
P3008	0 - 8 bar
I3004	0 - 11 bar
I3004RP	0 - 8 bar



TYPE	PRESSURE
31209	2 - 10 bar
31210	3 - 20 bar
31210EP	3 - 40 bar
31206	3 - 40 bar
P3003	2 - 10 bar
P3009	2 - 8 bar
I3005	2 - 11 bar
I3005RP	2 - 8 bar



TYPE	PRESSURE
31119	2 - 10 bar
31120	3 - 20 bar
31120EP	3 - 40 bar
31121	3 - 40 bar
P3001	2 - 10 bar
P3007	2 - 8 bar
I3003	2 - 11 bar
I3003RP	2 - 8 bar



**WETTED PARTS**

Code	✕	B1	B2	B5	B17
<b>Body</b>	Anodized Aluminium	Anodized Aluminium	Brass	SS 316	Brass Forged
<b>Internals</b>	Aluminium, Brass and SS 316	SS 316	Brass and SS 316	SS 316	Brass and SS 316
<b>Guide</b>	SS 304				
<b>Shadow-Ring</b>	Copper/ None				
<b>Plunger, Insert</b>	SS 430				
<b>Spring/ Circlip</b>	SS 302/ Steel				
<b>Fasteners</b>	SS 304				
<b>Seat, Seals</b>	NBR, Viton, F.Silicon				



**APPLICATION**

Actuation of Control Valve/ Single acting Actuator/ Cylinder

**POWER**

Power	Normal		Low		Ex ia	
	13W	6W/ 8W	2W	0.4W	Type : 66	Type : 65CR, 67, 71
<b>Type</b>	31121, 31206	31119, 31209 31120, 31210 32301, 31120EP, 31210EP	P3001, P3003, P3006	P3007, P3008, P3009	31119, 31209 31120, 31210 32301, 31120EP 31210EP	I3003, I3004, I3005, I3003RP, I3004RP, I3005RP
<b>Size</b>	II	I/ III	I/ III	III	III	III

**SPARES**

SPARE KIT	CODE
<b>Seal Kit</b> : Oring Set and Plunger Assembly	98
<b>Repair Kit</b> : All Components except Body, Cover and Solenoid	99
<b>Solenoid Kit</b> : Solenoid, Gasket and Nut	34

**PORT CONNECTION**

VALVE TYPE	MODE	INLET	OUTLET	EXHAUST	PILOT EXHAUST	EXTERNAL PILOT INLET
31119, 31120, 31120EP, 31121, P3001, P3007, I3003, I3003RP	NC	1	2	3	6	
31209, 31210, 31210EP, 31206, P3003, P3009, I3005, I3005RP	NO	3	2	1	6	
32301, P3006, P3008, I3004, I3004RP	NC	1	2	3	6	7
	NO	3	2	1	6	7

Contact Rotex for  
• Any other Temperature Range, Media and Application

The pressure drop at inlet port can result in malfunctioning of the valve. Caution needs to be taken that all equipment connected between header & inlet port should have higher orifice/ kv value as compared to orifice of the selected valve. Excessive blockage of exhaust port can lead to malfunction of the solenoid valve.

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

**SPECIFICATION**

VALVE		SOLENOID	
<b>Valve Type</b> Normally Closed/ Open Solenoid Valve	3/2 Internal/ External Pilot Operated, Solenoid Valve	<b>Voltage-Current</b>	DC 12V, 24V, 48V, 110V, 220V, 256V AC (50Hz/ 60Hz) 24V, 110V, 120V, 230V, 240V AC/ DC (50Hz/ 60Hz/ DC) 24V, 110V, 120V, 230V, 240V
<b>Body Material</b>	Aluminium/ Brass/ Stainless Steel 316/ Brass Forging	<b>Power</b>	13W/ 8W/ 6W/ 2W/ 0.4W
<b>Port Connection</b>	1/4", 3/8", 1/2", 3/4", 1"	<b>Protection</b>	Weather Proof IP67 Explosion Proof Ex d, Ex ia, Ex e mb, IIC, T6/ T5/ T4 IP67
<b>Orifice</b>	7mm/ 10mm/ 16mm/ 20mm/ 25mm	<b>Cable Entry</b>	Pg 9/ M20X1.5/ 1/2" NPT/ M25X1.5
<b>Seals</b>	NBR/ Viton/ F. Silicon		
<b>Manual Override</b>	Stayput/ Momentary/ Without Manual Override		
<b>Flow factor Orifice - kv/ Kv/ Cv</b>	7mm - 18/ 1.1/ 1.3 10mm - 38/ 2.3/ 2.7 16mm - 75/ 4.5/ 5.3 20mm - 110/ 6.6/ 7.7 25mm - 185/ 11.1/ 13		
<b>Media</b>	Air/ Inert Gas		
<b>13 Ambient - Fluid Temperature</b>	-25 °C to 75 °C, Optionally -60 °C to 170 °C		
<b>Response ON/ OFF</b>	≤ 20ms/ ≤ 30ms Orifice 7mm, 10mm ≤ 50ms/ ≤ 80ms Orifice 16mm, 20mm, 25mm		
<b>Pressure</b>	2 - 8 bar, 2 - 10 bar, 2 - 20 bar, 2 - 40 bar, 0 - 8 bar, 0 - 10 bar, 0 - 20 bar		

**ORDERING CODE Solenoid Valve (Valve Code + Solenoid Code)**

VALVE TYPE 31119	SIL SL	SUFFIX *	ORIFICE-PORT CONNECTION 7-2G	BODY INTERNAL B2	MANUAL OVERRIDE *	SEAL S2G	13 MEDIA *		
ACCESSORIES VALVE, PORT A4	+	SIZE III	VOLTAGE, CURRENT 24V DC	ENCLOSURE 87NS	7 MTL CO	SPECIAL *	POWER *	INSULATION H	APPROVAL 01
SIL SL	+	ACCESSORIES SOLENOID B4							

**ORDERING CODE Valve Spare Kit**

SPARE KIT 99	VALVE TYPE 31119	SIL SL	SUFFIX *	ORIFICE-PORT CONNECTION 7-2G	BODY INTERNAL B2	MANUAL OVERRIDE *
SEAL S2G	+	ACCESSORIES VALVE, PORT A4				

**ORDERING CODE Spare Solenoid**

SOLENOID KIT 34	SIZE III	VOLTAGE, CURRENT 24V DC	ENCLOSURE 87NS	7 MTL CO	SPECIAL *	POWER *	INSULATION H	APPROVAL 01
SIL SL	+	ACCESSORIES SOLENOID B4						

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

VALVE TYPE-ORIFICE			
NORMALLY CLOSED	NORMALLY OPEN	EXTERNAL PILOT	DESCRIPTION
<b>NORMAL POWER</b>			
31119	31209		2 - 10 bar, 8 Watt, size I/ III
31120	31210		2 - 20 bar, 8 watt, size I/ III
		32301	0 - 20 bar, 8 Watt, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher
31120EP	31210EP		3 - 40 bar, 8 Watt, Size III
31121	31206		3 - 40 bar, 13 Watt , Size II
<b>LOW POWER</b>			
P3001V01	P3003V01		2 - 10 bar, 2 Watt
		P3006V01	0 - 10 bar, 2 Watt, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher
⑪ P3001V01	⑪ P3003V01		2 - 10 bar, 0.4 Watt, Size III, Power LB04
		⑪ P3006V01	0 - 10 bar, 0.4 Watt, Size III, Power LB04, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher
P3007	P3009		2 - 8 bar, 0.4 Watt, Size III, Power LW0.4
		P3008	0 - 8 bar, 0.4 Watt, Size III, Power LW0.4, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher
<b>INTRINSICALLY SAFE Ex ia 24V DC</b>			
31119	31209		2 - 10 bar, Enclosure Type 66, Size III
31120	31210		2 - 20 bar, Enclosure Type 66, Size III
		32301	0 - 20 bar, Enclosure Type 66, Size III, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher
31120EP	31210EP		3 - 40 bar, Enclosure Type 66 , Size III
I3003V01	I3005V01		2 - 11 bar, Enclosure Type 65CR, 67, 71, Size III
		I3004V01	0 - 10 bar, Enclosure Type 65CR, 67, 71, Size III, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher
I3003V01RP	I3005V01RP		2 - 8 bar, Enclosure Type 65CR. 67, 71, Size III
		I3004V01RP	0 - 8 bar, Enclosure Type 65CR. 67, 71, Size III, Pilot Pressure ≥ Main fluid Pressure or Minimum 2 bar whichever is higher

SIL CERTIFIED	
CODE	DESCRIPTION
① ✖	NO
SL	YES

SUFFIX	
CODE	DESCRIPTION
① ✖	NIL
⑧ AM	Ammonia

ORIFICE-PORT CONNECTION		
CODE	DESCRIPTION	
	ORIFICE	PORT
7-2G	7mm	1/4" BSP
7-2R	7mm	1/4" NPT
7-3G	7mm	3/8" BSP
7-3R	7mm	3/8" NPT
7-4G	7mm	1/2" BSP
7-4R	7mm	1/2" NPT
⑫ 10-3G	10mm	3/8" BSP
⑫ 10-3R	10mm	3/8" NPT
⑫ 10-4G	10mm	1/2" BSP
⑫ 10-4R	10mm	1/2" NPT
16-4G	16mm	1/2" BSP
16-4R	16mm	1/2" NPT
20-6G	20mm	3/4" BSP
20-6R	20mm	3/4" NPT
25-8G	25mm	1" BSP
25-8R	25mm	1" NPT

BODY MATERIAL		ORIFICE				
CODE	DESCRIPTION	7	10	16	20	25
① ✖	Aluminium	✓	✓	✓	✓	✓
B2	Brass	✓		✓		
B5	SS316	✓	✓	✓	✓	✓
B5N	SS316 NACE Compliance	✓	✓	✓	✓	✓
⑫ B17	Brass Forging		✓			

MANUAL OVERRIDE			
CODE	DESCRIPTION	CODE	DESCRIPTION
Pressure	≤ 20 bar	Pressure	20-40 bar
M0	NIL	① ✖	NIL
① ✖	Stayput	M12	Stayput
M8	Momentary	M5	Momentary

SEAL		MEDIA
CODE	GRADE, AMBIENT/ FLUID TEMPERATURE	① ✖
① ✖	NBR, -25 °C to 75 °C	✓
S2G	VITON, -40 °C to 160 °C	✓
S19	F. Silicon, -60 °C to 190 °C	✓

⑫ MEDIA	
CODE	DESCRIPTION
① ✖	Air, Inert Gas

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

SIZE-VOLTAGE CURRENT		
CODE	SIZE	VOLTAGE CURRENT
I-12V DC	I	12V DC
I-24V DC	I	24V DC
I-24V 50Hz	I	24V 50Hz/ 60Hz
I-110V 50Hz	I	110V 50Hz/ 120V 60Hz
I-230V 50Hz	I	230V 50Hz/ 240V 60Hz
III-12V DC	III	12V DC
III-24V DC	III	24V DC
III-24V 50Hz	III	24V 50Hz/ 60Hz
III-24V AC/ DC	III	④ 24V 50Hz/ 60Hz/ DC
III-48V DC	III	48V DC
III-110V DC	III	110V DC
III-110V 50Hz	III	110V 50Hz/ 120V 60Hz
III-110V AC/ DC	III	④ 110V 50Hz/ 60Hz/ DC 120V 50Hz/ 60Hz/ DC
III-220V DC	III	220V DC
III-230V 50Hz	III	230V 50Hz/ 240V 60Hz
III-230V AC/ DC	III	④ 220V 50Hz/ 60Hz/ DC 240V 50Hz/ 60Hz/ DC
III-256V DC	III	256V DC
II-12V DC	II	12V DC
II-24V DC	II	24V DC
II-24V AC/ DC	II	④ 24V 50Hz/ 60Hz/ DC
II-48V DC	II	48V DC
II-110V DC	II	110V DC
II-110V AC/ DC	II	④ 110V 50Hz/ 60Hz/ DC 120V 50Hz/ 60Hz/ DC
II-220V DC	II	220V DC
II-230V AC/ DC	II	④ 220V 50Hz/ 60Hz/ DC 240V 50Hz/ 60Hz/ DC
II-256V DC	II	256V DC

ENCLOSURE TYPE	
CODE	DESCRIPTION
<b>WEATHER PROOF</b>	
⑤ 22	DIN Plug Solenoid, IP 67, Cable Entry Pg9, as per DIN43650A, Size I
⑤ 25	DIN Plug Solenoid, IP 67, Cable Entry Pg9, as per DIN43650B, Size II, III
16	Integrated Terminal Box, IP 67, 1/2" NPT, -40 °C to 100 °C
16A	Integrated Terminal Box, IP 68, 1/2" NPT, -40 °C to 100 °C
19	Integrated Terminal Box, IP 67, M20 X 1.5, -40 °C to 100 °C
19A	Integrated Terminal Box, IP 68, M20 X 1.5, -40 °C to 100 °C
17	Integrated Terminal Box, Bottom Cable entry M25X1.5, Size II, III, Insulation Class H
17NS	Integrated Terminal Box, Bottom Cable entry 1/2" NPT, Size II, III, Insulation Class H
<b>EXPLOSION PROOF Ex d (For Gas &amp; Dust)</b>	
⑬ 37	Ex d IIC IP66, -40 °C TO 60 °C, 1/2" NPT
⑬ 39	Ex d IIC IP66, -40 °C TO 60 °C, M20 X 1.5
87	Ex d IIC IP67, -60 °C TO 100 °C, M25 X 1.5, Size II, III
87MS	Ex d IIC IP67, -60 °C TO 100 °C, M20 X 1.5, Size II, III
87NS	Ex d IIC IP67, -60 °C TO 100 °C, 1/2" NPT, Size II, III
<b>EXPLOSION PROOF Ex e mb (For Gas &amp; Dust)</b>	
58	Ex e mb IIC, IP67, -40 °C TO 70 °C, M25 X 1.5
58MS	Ex e mb IIC, IP67, -40 °C TO 70 °C, M20 X 1.5
58NS	Ex e mb IIC, IP67, -40 °C TO 70 °C, 1/2" NPT
58LT	Ex e mb IIC, IP67, -60 °C TO 70 °C, M25 X 1.5
58LTMS	Ex e mb IIC, IP67, -60 °C TO 70 °C, M20 X 1.5
58LTNS	Ex e mb IIC, IP67, -60 °C TO 70 °C, 1/2" NPT
<b>EXPLOSION PROOF Ex ia (For Gas &amp; Dust)</b>	
③ 65CR	Ex ia IIC, IP67, -60 °C TO 70 °C, Pg9, Size III, DIN Plug In Enclosure
66	Ex ia IIC, IP67, -60 °C TO 70 °C, M25 X 1.5, Size III, Booster Circuit
66MS	Ex ia IIC, IP67, -60 °C TO 70 °C, M20 X 1.5, Size III, Booster Circuit
66NS	Ex ia IIC, IP67, -60 °C TO 70 °C, 1/2" NPT, Size III, Booster circuit
67	Ex ia IIC, IP67, -60 °C TO 70 °C, M25 X 1.5, Size III
67MS	Ex ia IIC, IP67, -60 °C TO 70 °C, M20 X 1.5, Size III
67NS	Ex ia IIC, IP67, -60 °C TO 70 °C, 1/2" NPT, Size III
71	Ex ia IIC, IP67, -60 °C TO 70 °C, M25 X 1.5, Size III
71MS	Ex ia IIC, IP67, -60 °C TO 70 °C, M20 X 1.5, Size III
71NS	Ex ia IIC, IP67, -60 °C TO 70 °C, 1/2" NPT, Size III

⑦ ENCLOSURE MATERIAL	
CODE	DESCRIPTION
① ✳	Aluminium Cast Epoxy Powder Coated
CO	CF8M (Stainless Steel Cast)

SPECIAL	
CODE	DESCRIPTION
① ✳	NIL
⑦ FR	Full Rectifier with Surge Suppressor Size II, III
⑱ LD	LED - Size II, III
⑫ SS	Surge Suppressor Size II, III
⑳	

INSULATION	
CODE	DESCRIPTION
① ✳	CLASS F
H	CLASS H

SIL	
CODE	DESCRIPTION
① ✳	NO
SL	YES

POWER																
CODE	SIZE	POWER WATT	12V DC		24V 50 Hz	24V AC/ DC	48V DC	110V DC	110V 50Hz	110V AC/ DC		230V 50Hz	220V DC	230V AC/ DC		256V DC
			12V DC	24V DC	24V 50 Hz/ 60 Hz	24V 50Hz/ ④ 60 Hz/ DC	48V DC	110V DC	110V 50Hz/ 120V 60Hz	110V 50Hz/ ④ 60Hz/ DC	120V 50Hz/ ④ 60Hz/ DC	230V 50Hz/ 240V 60Hz	220V DC	220V 50Hz/ ④ 60Hz/ DC	240V 50Hz/ ④ 60Hz/ DC	256V DC
LW2	I	2.0		✓												
① ✳	I	6.0			✓				✓			✓				
① ✳	I	8.0	✓	✓												
LW0.4	III	0.4		✓												
LW2	III	2.0	✓	✓				✓		✓						
① ✳	III	6.0			✓				✓			✓				
① ✳	III	8.0	✓	✓		✓	✓	✓		✓			✓	✓		
		9.0									✓				✓	✓
① ✳	II	13.0	✓	✓		✓	✓	✓		✓			✓	✓		
		15.0									✓				✓	✓
⑪ LB04	III	0.4		✓												

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

APPROVAL		ENCLOSURE TYPE									
CODE	DESCRIPTION	17	37	39	58	58LT	65CR	66	67	71	87
① ⑮ ✕	CCOE/ PESO + BIS, Insulation Class H		✓	✓			✓	✓	✓	✓	✓
01	CE - ATEX, Insulation Class H		✓	✓	✓	✓					
01	IEC Ex + ATEX, Insulation Class H							✓	✓	✓	✓
01B	INDIAN + ATEX, Insulation Class H		✓	✓				✓			✓
02	UL Recognised, for USA and Canada, Type 3, 3S, 4, 4X, 6, 6P UL file Number E 342217	✓									
03	INMETRO + ATEX, Insulation Class H		✓	✓				✓	✓	✓	✓
03C	IEC Ex + ATEX + IN METRO + CuTR-EAC										✓
03U	IEC Ex + ATEX + IN METRO + UL (Type 3, 3S, 4, 4X, 6, 6P)	✓									
04	CuTR- EAC + ATEX , Insulation Class H		✓	✓				✓	✓	✓	✓
04U	IEC Ex + ATEX + CuTR + UL (Type 3, 3S, 4, 4X, 6, 6P)	✓									
⑰ 07	KOSHA + ATEX, Insulation Class H										✓
08	Ukraine, Insulation Class H							✓	✓	✓	✓
⑮ MN	DGMS+CCOE/ PESO + BIS, Insulation Class H		✓	✓			✓	✓	✓	✓	✓
⑳ CE	CE (Weatherproof Solenoid)	✓									

**Note :**

- ① Do not Specify when opted for
- ② Approval other than BIS, CCOE/ PESO, DGMS
- ③ BIS, CCOE/ PESO, DGMS Approved coil
- ④ Opt FR from special
- ⑤ Current DC, 50Hz, 60Hz
- ⑦ Do not Opt for Enclosure Type 01, 06, 22, 25
- ⑧ Select Body Material SS316 (B5)
- ⑨ All variation of 17, 37, 39, 58, 58LT, 65CR, 66, 67, 71 87 included
- ⑩ Media Should be Oil free Air/ Inert Gas/ Water
- ⑪ Do not opt for 01, 06, 22, 25. In rush 2W for 100 msec, Holding 0.4W
- ⑫ Current DC
- ⑬ Ambient Temperature restricted for Enclosure Type 17, 37, 39, 58, 58LT, 65CR, 66, 67, 71, 87 to Solenoid Ambient Temperature
- ⑭ Select one or Nil Accessories from each Solenoid (A1 to A6), Valve (B7 to B8)
- ⑮ IP67 Certified by BIS, CCOE/ PESO, DGMS
- ⑯ Can not be opted for Enclosure Type 01, 06
- ⑰ Can be opted for Enclosure Type 01, 06, 16, 19, 22, 25
- ⑱ KOSHA certificate only for enclosure size II ≤ 20W
- ⑲ For Body Material B17 (Brass Forged), add suffix V01 to valve type
- ⑳ Do not Opt for Enclosure Type 01, 06, 22
- ㉑ Media shall not be part of Ordering code but It shall be printed separately on Valve
- ㉒ For Body Material Aluminium and SS316

**ENTITY PARAMETER**

Entity Parameter	
Ui	32V DC
Ii	230mA
Pi	2.3W
Ci	0
Li	0

**MINIMUM OPERATING PARAMETER**

Type	66	66..LD..	65CR	67	67..LD..	71	71..LD..	65CR	67	67..LD..	71	71..LD..
Minimum Voltage (V)	10	10	11	11	11	11	11	14	14	15	14	14
Minimum Current (mA)	20	21	19	19	22	19	22	25	25	28	25	28
Minimum Power (W)	0.20	0.21	0.21	0.21	0.24	0.21	0.24	0.35	0.35	0.42	0.35	0.42
LED	No	Yes	No	No	Yes	No	Yes	No	No	Yes	No	Yes
Pressure (bar)	As per Solenoid Valve rating		Maximum 8.0					Maximum 11.0				

**RESPONSE ON TIME FOR SOLENOID TYPE 66, 66..LD..**

Voltage (V)	10	11	12	14	18	22	24	26	30	32	Current (mA)	18.5	20	25	30
Current (mA)	20	22	24	28.5	37	45.5	49.7	54	63	67	Open Ckt Voltage (V)	19.5	19.5	19.5	19.5
Response Time (ms) ≤	4800	3800	2500	1600	850	650	450	400	250	250	Time (ms) ≤	5000	4000	2500	2000

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

**MARKING Explosion Proof**

**ENCLOSURE TYPE 37/ 39**

SIZE	Power	BIS & PESO, DGMS	EAC - CuTR (Russia)	ATEX / INMETRO
I II IV	≤5W ≤8W ≤11W	Ex d IIC T6/T5 Gb, IP67 Ex tb IIIC T80°C/T95°C Db -40°C ≤ Ta ≤ 65°C FOR T6 -40°C ≤ Ta ≤ 70°C FOR T5	1 Ex d IIC T6/ T5/ T4 Gb IP66 Ex tb IIIC T80°C / T95°C / T130°C Db IP66 ИЛИ 0°C ≤ Ta ≤ 35°C FOR T6 -40°C ≤ Ta ≤ 50°C FOR T5 -40°C ≤ Ta ≤ 60°C FOR T4	Ex d IIC T6/ T5/ T4 Gb IP66 Ex tb IIIC T80°C / T95°C / T130°C Db IP66 -40°C ≤ Ta ≤ 35°C FOR T6 -40°C ≤ Ta ≤ 50°C FOR T5 -40°C ≤ Ta ≤ 60°C FOR T4 (Power ≤ 20W)
I II III	≤8W ≤13W ≤8W	Ex d IIC T6/T5 Gb, IP67 Ex tb IIIC T80°C/T95°C Db -40°C ≤ Ta ≤ 60°C FOR T6 -40°C ≤ Ta ≤ 70°C FOR T5		
III	≤15W	Ex d IIC T6/T5/T4 ≤Gb, IP67 Ex tb IIIC T80°C/T95°C/T130°C Db -40°C ≤ Ta ≤ 50°C FOR T6 -40°C ≤ Ta ≤ 65°C FOR T5 -40°C ≤ Ta ≤ 70°C FOR T4		
III IV	≤5W ≤5W	Ex d IIC T6 Gb, IP67 Ex tb IIIC T80°C Db -40°C ≤ Ta ≤ 70°C FOR T6		
II	≤20W	Ex d IIC T6/T5 Gb, IP67 Ex tb IIIC T80°C / T95°C Db -40°C ≤ Ta ≤ 55°C FOR T6 -40°C ≤ Ta ≤ 70°C FOR T5		
II	≤30W	Ex d IIC T6/T5/T4 Gb, IP67 Ex tb IIIC T80°C/T95°C/ T130°C Db -40°C ≤ Ta ≤ 40°C FOR T6 -40°C ≤ Ta ≤ 55°C FOR T5 -40°C ≤ Ta ≤ 70°C FOR T4		

**ENCLOSURE TYPE 87**

SIZE	Power	ATEX, IEC Ex, BIS & PESO, DGMS	INMETRO	EAC - CuTR (Russia) / UKRANE	KOSHA
III II IV	≤5W ≤8W ≤11W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T80°C/T95°C/T130°C Db IP67 -60°C ≤ Ta ≤ +65°C for T6 -60°C ≤ Ta ≤ +80°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +65°C for T6 -60°C ≤ Ta ≤ +80°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +65°C for T6 -60°C ≤ Ta ≤ +80°C for T5 -60°C ≤ Ta ≤ +100°C for T4	형식 또는 모델명 : 87, BCE 규격 또는 등급 : Ex d IIC T3-T6 제조사명 : Rotex Automation Limited 안전인증 번호 : 15-AV4BO-0000
III II	≤8W ≤13W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T80°C/T95°C/T130°C Db IP67 -60°C ≤ Ta ≤ +60°C for T6 -60°C ≤ Ta ≤ +75°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +60°C for T6 -60°C ≤ Ta ≤ +75°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +60°C for T6 -60°C ≤ Ta ≤ +75°C for T5 -60°C ≤ Ta ≤ +100°C for T4	
III	≤15W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T80°C/T95°C/T130°C Db IP67 -60°C ≤ Ta ≤ +50°C for T6 -60°C ≤ Ta ≤ +65°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +50°C for T6 -60°C ≤ Ta ≤ +65°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +50°C for T6 -60°C ≤ Ta ≤ +65°C for T5 -60°C ≤ Ta ≤ +100°C for T4	
IV	≤5W	Ex d IIC T6/T5/T4 Gb IP67 Ex t IIIC T80°C/T95°C/T130°C Db IP67 -60°C ≤ Ta ≤ +70°C for T6 -60°C ≤ Ta ≤ +85°C for T5 -60°C ≤ Ta ≤ +100°C for T4	Ex d IIC T6/T5/T4 Gb Ex t IIIC T85°C/T100°C/T135°C Db IP67 -60°C ≤ Ta ≤ +70°C for T6 -60°C ≤ Ta ≤ +85°C for T5 -60°C ≤ Ta ≤ +100°C for T4	1 Ex d IIC T6/T5/T4 Gb IP67 Ex tb IIIC T80°C/T95°C/T130°C Db ИЛИ -60°C ≤ Ta ≤ +70°C for T6 -60°C ≤ Ta ≤ +85°C for T5 -60°C ≤ Ta ≤ +100°C for T4	
II	≤20W	Ex d IIC T5/T4/T3 Gb IP67 Ex IIIC T95°C/T130°C/T155°C Db IP67 -60°C ≤ Ta ≤ +45°C for T5 -60°C ≤ Ta ≤ +80°C for T4 -60°C ≤ Ta ≤ +100°C for T3	Ex d IIC T5/T4/T3 Gb Ex IIIC T100°C/T135°C/T155°C Db IP67 -60°C ≤ Ta ≤ +45°C for T5 -60°C ≤ Ta ≤ +80°C for T4 -60°C ≤ Ta ≤ +100°C for T3	1 Ex d IIC T5/T4/T3 Gb IP67 Ex tb IIIC T95°C/T130°C/T155°C Db ИЛИ -60°C ≤ Ta ≤ +45°C for T5 -60°C ≤ Ta ≤ +80°C for T4 -60°C ≤ Ta ≤ +100°C for T3	
II	≤30W	Ex d IIC T4/T3 Gb IP67 Ex IIIC T130°C/T155°C Db IP67 -60°C ≤ Ta ≤ +60°C for T4 -60°C ≤ Ta ≤ +70°C for T3	Ex d IIC T4/T3 Gb Ex IIIC T135°C/T155°C Db IP67 -60°C ≤ Ta ≤ +60°C for T4 -60°C ≤ Ta ≤ +70°C for T3	1 Ex d IIC T4/T3 Gb IP67 Ex tb IIIC T130°C/T155°C Db ИЛИ -60°C ≤ Ta ≤ +60°C for T4 -60°C ≤ Ta ≤ +70°C for T3	

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

**MARKING Explosion Proof**

**ENCLOSURE TYPE 58**

SIZE	Power	CE-ATEX, Insulation H
I II IV	≤5W ≤8W ≤11W	Ex e mb IIC T6/ T5 IP67 Ex tb IIIC T6/ T5 IP67 -40° C ≤ Ta ≤ 65° C for T6 -40° C ≤ Ta ≤ 70° C for T5
I II III	≤8W ≤13W ≤8W	Ex e mb IIC T6/ T5 IP67 Ex tb IIIC T6/ T5 IP67 -40° C ≤ Ta ≤ 60° C for T6 -40° C ≤ Ta ≤ 70° C for T5
III	≤15W	Ex e mb IIC T6/ T5/ T4 IP67 Ex tb IIIC T6/ T5/ T4 IP67 -40° C ≤ Ta ≤ 50° C for T6 -40° C ≤ Ta ≤ 65° C for T5 -40° C ≤ Ta ≤ 70° C for T4
III IV	≤5W ≤5W	Ex e mb IIC T6 IP67 Ex tb IIIC T6 IP67 -40° C ≤ Ta ≤ 70° C for T6
II	≤20W	Ex e mb IIC T6/ T5 IP67 Ex tb IIIC T6/ T5 IP67 -40° C ≤ Ta ≤ 55° C for T6 -40° C ≤ Ta ≤ 70° C for T5
II	≤30W	Ex e mb IIC T6/ T5/ T4 IP67 Ex tb IIIC T6/ T5/ T4 IP67 -40° C ≤ Ta ≤ 40° C for T6 -40° C ≤ Ta ≤ 55° C for T5 -40° C ≤ Ta ≤ 70° C for T4

**ENCLOSURE TYPE 58LT**

SIZE	Power	CE-ATEX, Insulation H
I II IV	≤5W ≤8W ≤11W	Ex e mb IIC T6/ T5 IP67 Ex tb IIIC T6/ T5 IP67 -60° C ≤ Ta ≤ 65° C for T6 -60° C ≤ Ta ≤ 70° C for T5
I II III	≤8W ≤13W ≤8W	Ex e mb IIC T6/ T5 IP67 Ex tb IIIC T6/ T5 IP67 -60° C ≤ Ta ≤ 60° C for T6 -60° C ≤ Ta ≤ 70° C for T5
III	≤15W	Ex e mb IIC T6/ T5/ T4 IP67 Ex tb IIIC T6/ T5/ T4 IP67 -60° C ≤ Ta ≤ 50° C for T6 -60° C ≤ Ta ≤ 65° C for T5 -60° C ≤ Ta ≤ 70° C for T4
III IV	≤5W ≤5W	Ex e mb IIC T6 IP67 Ex tb IIIC T6 IP67 -60° C ≤ Ta ≤ 70° C for T6
II	≤20W	Ex e mb IIC T6/ T5 IP67 Ex tb IIIC T6/ T5 IP67 -60° C ≤ Ta ≤ 55° C for T6 -60° C ≤ Ta ≤ 70° C for T5
II	≤30W	Ex e mb IIC T6/ T5/ T4 IP67 Ex tb IIIC T6/ T5/ T4 IP67 -60° C ≤ Ta ≤ 40° C for T6 -60° C ≤ Ta ≤ 55° C for T5 -60° C ≤ Ta ≤ 70° C for T4

**ENCLOSURE TYPE 66, 67 & 71**

Enclosure	ATEX/ IECEx (Eurpoe)/ INMETRO/ CEPTEL (Brazil)	EAC - CuTR (Russia)	BIS & PESO, DGMS
Al Cast	Ex ia IIC T5 Ga (-60°C≤Ta≤+75°C) Ex ia IIC T6 Ga (-60°C≤Ta≤+60°C) Ex ia IIIC T200 125°C IP67 Da (-60°C≤Ta≤+75°C)	0 Ex ia IIC T5 Ga IP67 (-60°C≤Ta≤+75°C) 0 Ex ia IIC T6 Ga IP67 (-60°C≤Ta≤+60°C) 0 Ex ia IIIC T200 125°C IP67 Da (-60°C≤Ta≤+75°C)	Ex ia I/IIC T5, IP67 (-40°C≤Ta≤75°C) Ex ia I/IIC T6, IP67 (-40°C≤Ta≤60°C)
SS Cast	Ex ia IIC T5 Ga (-60°C≤Ta≤+75°C) Ex ia IIC T6 Ga (-60°C≤Ta≤+60°C) Ex ia IIIC T200 125°C IP67 Da (-60°C≤Ta≤+75°C) Ex ia I Ma (-60°C≤Ta≤+75°C)	0 Ex ia IIC T5 Ga IP67 (-60°C≤Ta≤+75°C) 0 Ex ia IIC T6 Ga IP67 (-60°C≤Ta≤+60°C) 0 Ex ia IIIC T200 125°C IP67 Da (-60°C≤Ta≤+75°C) PO Ex ia I Ma (-60°C≤Ta≤+75°C) (ТОЛЬКО СТАЛЬ) ИЛИ	
Al Cast	<b>Ukraine</b>		
Al Cast	0 Ex ia IIC T5 X -60°C≤Ta≤+75°C 0 Ex ia IIC T6 X -60°C≤Ta≤+60°C		
SS Cast	PO Ia X -60°C≤Ta≤+75°C (ДЛЯ варіанта у сталюму корпусі) 0 Ex ia IIC T5 X -60°C≤Ta≤+75°C 0 Ex ia IIC T6 X -60°C≤Ta≤+60°C		

**ENCLOSURE TYPE 65CR**

BIS & PESO, DGMS
Ex ia I/IIC T5, IP67 (-40°C≤Ta≤75°C) Ex ia I/IIC T6, IP67 (-40°C≤Ta≤60°C)

**MARKING Weather Proof**

**ENCLOSURE TYPE 17**

US & Canada (UL Recognised)
TYPE 3, 3R, 3S, 4, 4X, 6 & 6P -60°C to +100°C POWER ≤20W -60°C to +60°C 20W< POWER ≤30W

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

14 ACCESSORIES		
	CODE	DESCRIPTION
	①×	NIL
	A3	Silencer Sintered Bronze
	A4	Silencer Sintered SS
	A5	Dust Cap (Ambient Temperature - 20 °C to 80 °C)
	①×	NIL
	B1	Weather Proof Cable Gland M20X1.5(M) Brass
	B5	ATEX Approved Cable Gland (Plastic) M20X1.5(M) (Ambient Temperature - 20 °C to 80 °C)
	B6	ATEX Approved Cable Gland (BRASS) M20X1.5(M) (Ambient Temperature - 20 °C to 80 °C)
	B7	ATEX Approved Cable Gland (SS316) M20X1.5(M) (Ambient Temperature - 20 °C to 80 °C)
	B8	Weather Proof Cable gland M20X1.5(M) (Plastic)
	B3	Explosion Proof Double Compression Cable Gland (BRASS) 1/2" NPT(M) (Ambient Temperature - 20 °C to 80 °C), CCOE/ PESO Certified
	B4	Explosion Proof Double Compression Cable Gland (SS316) 1/2" NPT(M) (Ambient Temperature - 20 °C to 80 °C), CCOE/ PESO Certified

VALVE

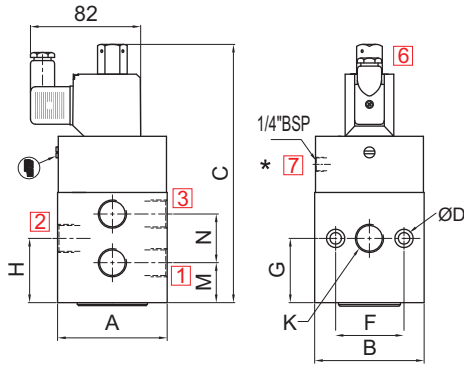
SOLENOID

**SERIES : 32P**

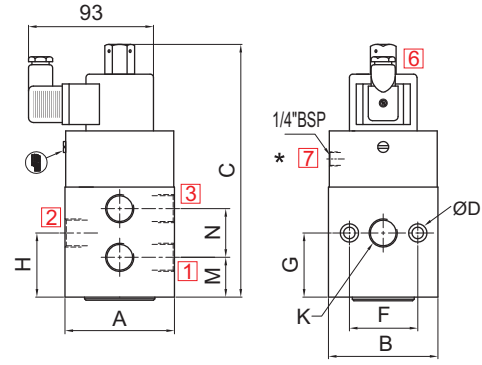
**3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE**

**DIMENSIONS**

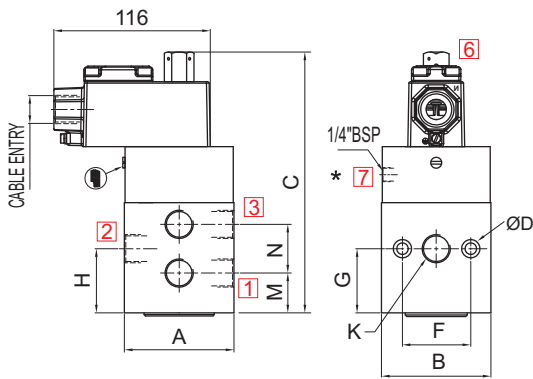
All Dimensions are in mm



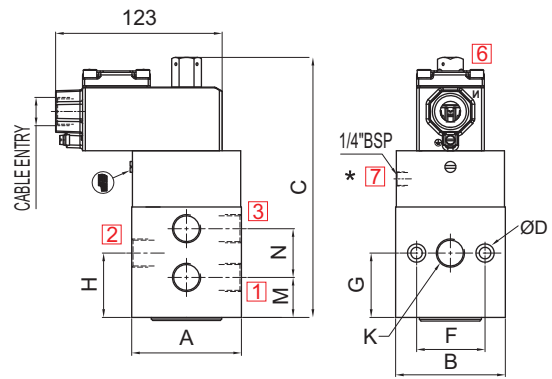
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01		
Enclosure Type	22		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7	10	16
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
*PORT 7 only for valve type 32301 & P3006V01			



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	25, 65CR		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7	10	16
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP			



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01		
Enclosure Type	16, 19, 37, 39, 58, 58LT		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7	10	16
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
*PORT 7 only for valve type 32301 & P3006V01			



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7	10	16
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP			

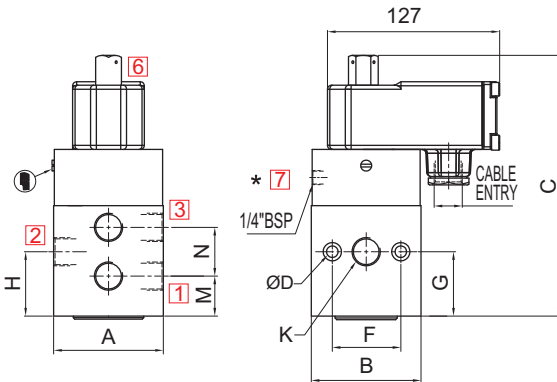
Valve Type : 31119, 31120, 31209, 31210, I3003V01, I3005V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, 31120EP										
NW	K	A	B	C	D	F	G	H	M	N
7	1/4"	51	51	158	6.5	34	33.5	33.5	21.5	24.5
10	3/8"	61	61	173	6.5	34	35.5	35.5	22	27
16	1/2"	81	81	193	8.5	50	47.5	47.5	29.5	36

Valve Type : 31121, 31206										
NW	K	A	B	C	D	F	G	H	M	N
7	1/4"	51	51	172	6.5	34	33.5	33.5	21.5	24.5
10	3/8"	61	61	186	6.5	34	35.5	35.5	22	27
16	1/2"	81	81	202	8.5	50	47.5	47.5	29.5	36

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

**DIMENSIONS**

All Dimensions are in mm



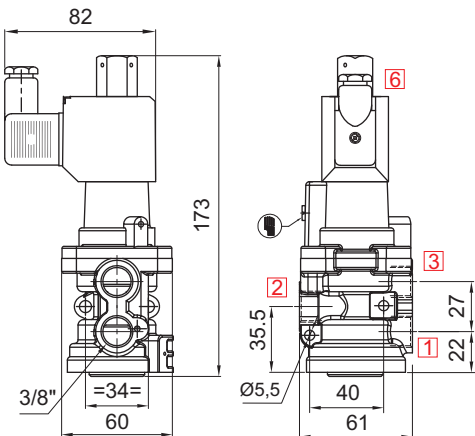
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, P3001V01, I3003V01RP, I3005V01RP, I3004V01RP, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206		
Enclosure Type	17, 87, 66, 71		
Port Connection	1/4", 3/8", 1/2"		
Body Material	Orifice		
	7	10	16
Aluminium	✓	✓	✓
Brass	✓	✓	✓
SS316	✓	✓	✓
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP			

Valve Type : 31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, P3001V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3003V01, P3006V01, 31120EP, 31210EP, P3007, P3008, P3009

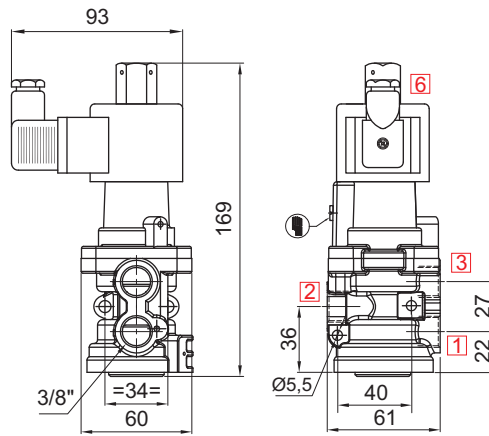
NW	K	A	B	C	D	F	G	H	M	N
7	1/4"	51	51	158	6.5	34	33.5	33.5	21.5	24.5
10	3/8"	61	61	173	6.5	34	35.5	35.5	22	27
16	1/2"	81	81	193	8.5	50	47.5	47.5	29.5	36

Valve Type : 31121, 31206

NW	K	A	B	C	D	F	G	H	M	N
7	1/4"	51	51	172	6.5	34	33.5	33.5	21.5	24.5
10	3/8"	61	61	186	6.5	34	35.5	35.5	22	27
16	1/2"	81	81	202	8.5	50	47.5	47.5	29.5	36



Valve Type	31119V01, 31120V01, 31209V01, 31210V01, P3001V01, P3003V01
Enclosure Type	22
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10

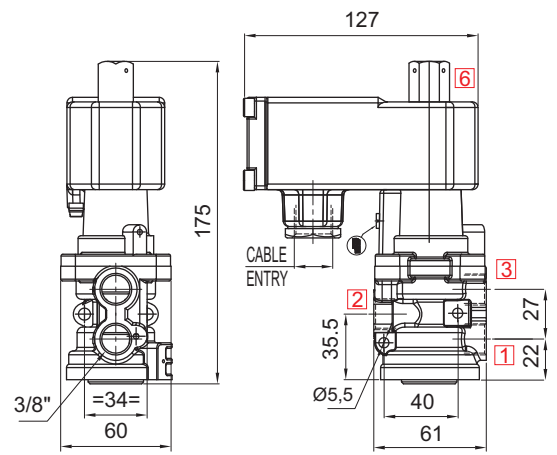
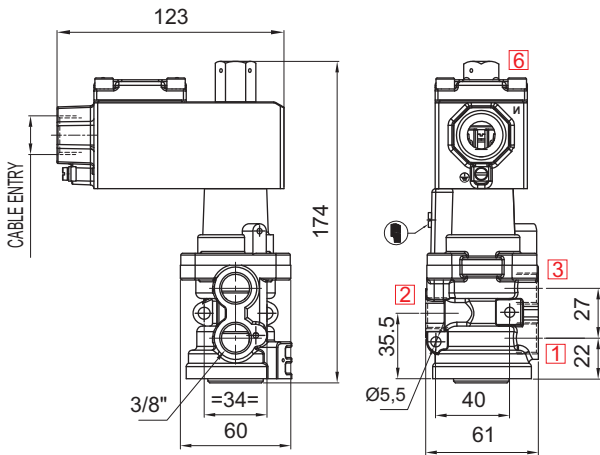


Valve Type	31119V01, 31120V01, 31209V01, 31210V01, I3003V01, I3005V01, I3003V01RP, P3001V01, P3003V01, P3007, P3009, 31120EP, 31210EP
Enclosure Type	25, 65CR
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10

**SERIES : 32P**

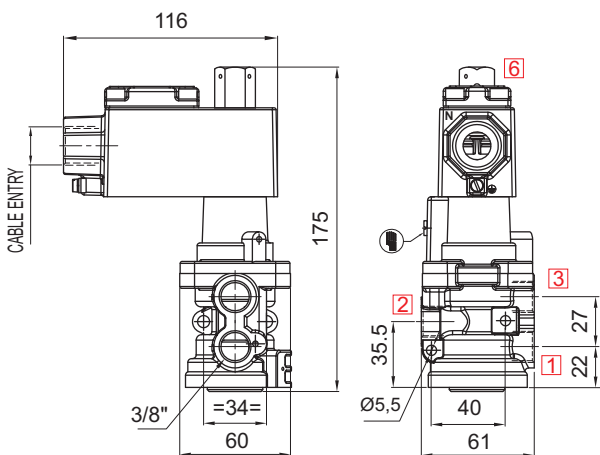
**3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE**

**DIMENSIONS** All Dimensions are in mm



Valve Type	31119V01, 31120V01, 31209V01, 31210V01, I3003V01, I3005V01, I3003V01RP, I3005V01RP, P3001V01, P3003V01, P3007V01, P3009V01, 31120V01EP, 31210V01EP
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10

Valve Type	31119V01, 31120V01, 31209V01, 31210V01, I3003V01, I3003V01RP, I3005V01, I3005V01RP, P3001V01, P3003V01, P3007V01, 31120V01EP, 31210V01EP, P3009V01
Enclosure Type	17, 87, 66, 71
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10

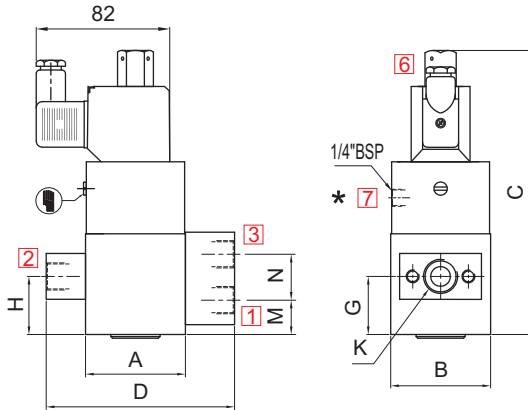


Valve Type	31119V01, 31120V01, 31209V01, 31210V01, P3001V01, P3003V01
Enclosure Type	16, 19, 37, 58, 58LT, 39
Port Connection	3/8"
Body Material	B17 (Forged Brass)
Orifice	10

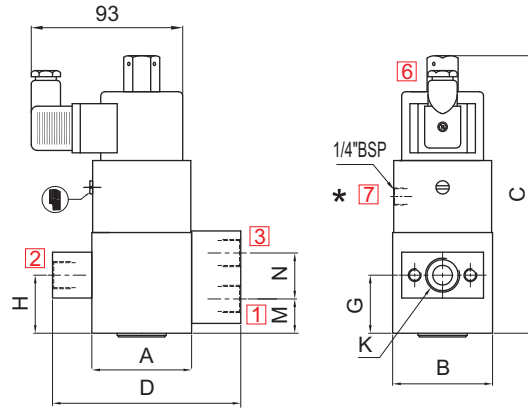
3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

**DIMENSIONS**

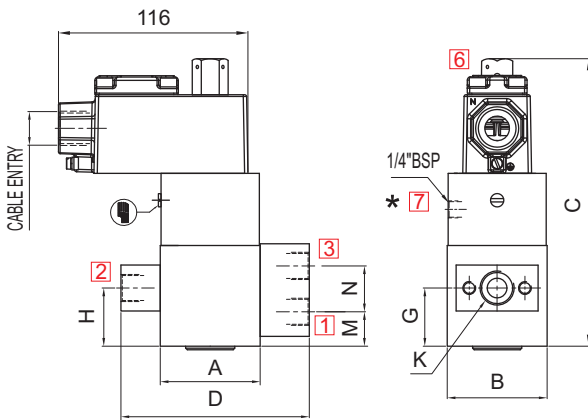
All Dimensions are in mm



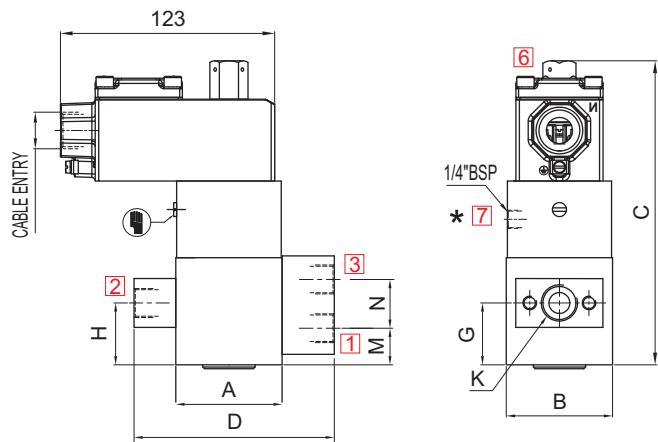
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01	
Enclosure Type	22	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7	10
Port Connection	1/2", 3/8"	1/2"
* PORT 7 only for valve type 32301 & P3006V01		



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206	
Enclosure Type	25, 65CR	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7	10
Port Connection	1/2", 3/8"	1/2"
* PORT 7 only for valve type 32301, P3006V01, I3004V01, I3004V01RP		



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01	
Enclosure Type	16, 19, 37, 39, 58, 58LT	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7	10
Port Connection	1/2", 3/8"	1/2"
* PORT 7 only for valve type 32301 & P3006V01		



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, 31120EP, 31210EP, 31121, 31206, P3007, P3008, P3009	
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7	10
Port Connection	1/2", 3/8"	1/2"
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01RP		

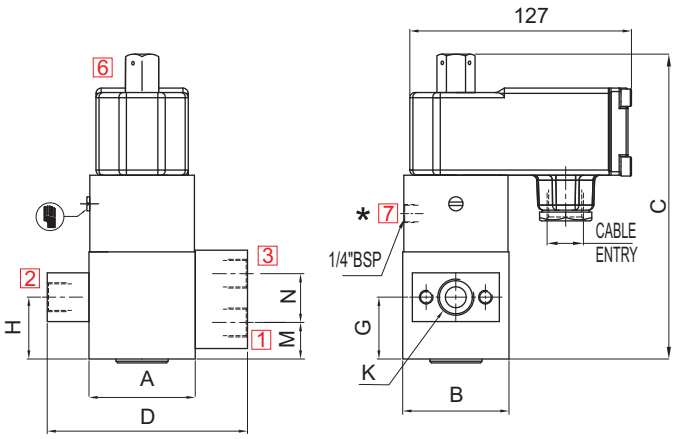
Valve Type : 31119, 31120, 31209, 31210, I3003V01, I3005V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 32301, 31210EP									
NW	K	A	B	C	D	G	H	M	N
7	1/2", 3/8"	51	51	158	104	34	34	15	28
10	1/2"	61	61	175	115	36	36	21	28

Valve Type : 31121, 31206									
NW	K	A	B	C	D	G	H	M	N
7	1/2", 3/8"	51	51	168	104	34	34	15	28
10	1/2"	61	61	185	115	36	36	21	28

**SERIES : 32P**

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

**DIMENSIONS** All Dimensions are in mm



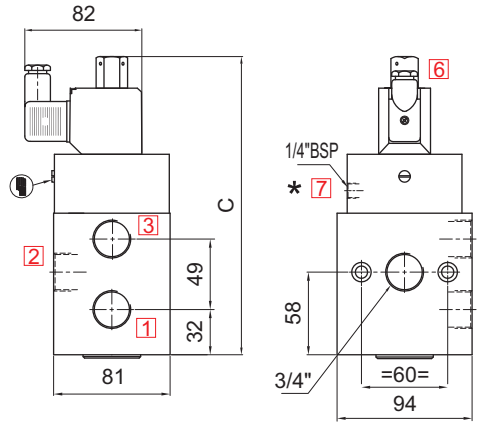
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206	
Enclosure Type	17, 87, 66, 71	
Body Material	Aluminium, Brass, SS	Al, SS
Orifice	7	10
Port Connection	1/2", 3/8"	1/2"
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP		

Valve Type : 31119, 31120, 31209, 31210, I3003V01, I3005V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, 31120EP, 32301, 31210EP, P3007, P3008, P3009

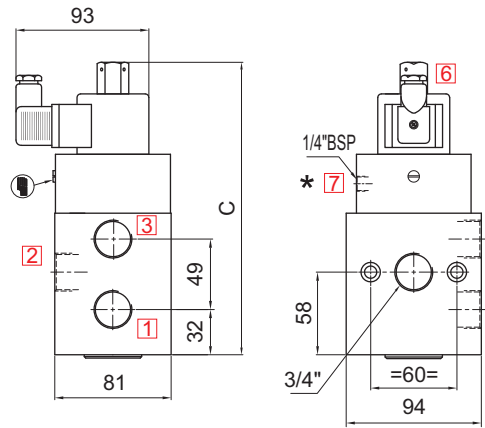
NW	K	A	B	C	D	G	H	M	N
7	1/2", 3/8"	51	51	158	104	34	34	15	28
10	1/2"	61	61	175	115	36	36	21	28

Valve Type : 31121, 31206

NW	K	A	B	C	D	G	H	M	N
7	1/2", 3/8"	51	51	168	104	34	34	15	28
10	1/2"	61	61	185	115	36	36	21	28



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01	
Enclosure Type	22	
Body Material	Aluminium, SS	
Orifice	20	
Port Connection	3/4"	
* PORT 7 only for valve type 32301, P3006V01		



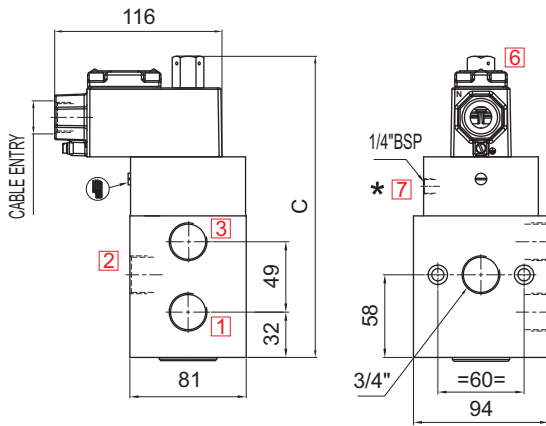
Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206,	
Enclosure Type	25, 65CR	
Body Material	Aluminium, SS	
Orifice	20	
Port Connection	3/4"	
* PORT 7 only for valve type 32301, P3006V01, I3004V01		

Valve Type	'C'
31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, I3001V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP	208
31121, 31206	218

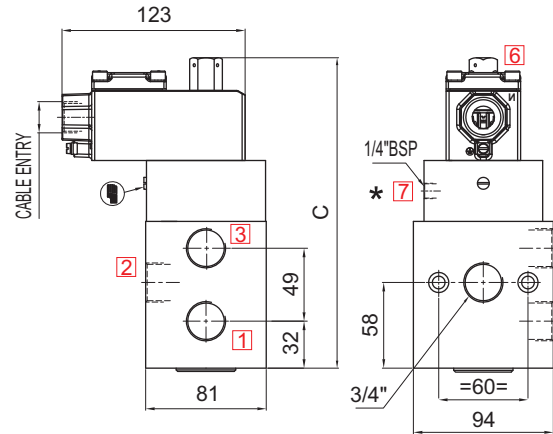
3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE

**DIMENSIONS**

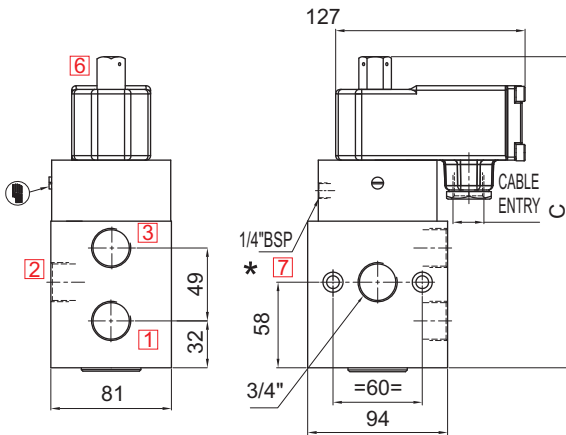
All Dimensions are in mm



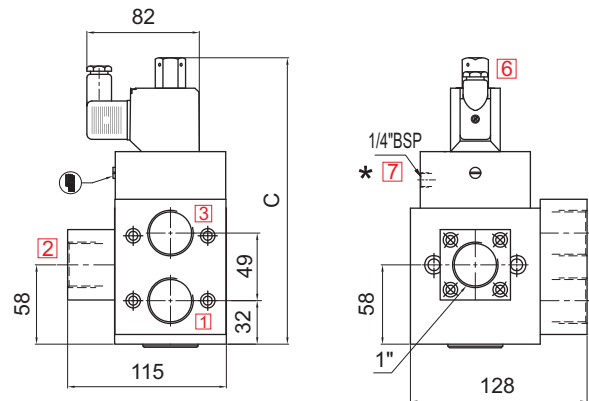
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01
Enclosure Type	16, 19, 37, 39, 58, 58LT
Body Material	Aluminium, SS
Orifice	20
Port Connection	3/4"
* PORT 7 only for valve type 32301, P3006V01	



Valve Type	31119, 31120, 31209, 31210, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31121, 31206
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67
Body Material	Aluminium, SS
Orifice	20
Port Connection	3/4"
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	17, 87, 66, 71
Body Material	Aluminium, SS
Orifice	20
Port Connection	3/4"
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP	



Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01
Enclosure Type	22
Body Material	Aluminium, SS
Orifice	25
Port Connection	1"
* PORT 7 only for valve type 32301, P3006V01	

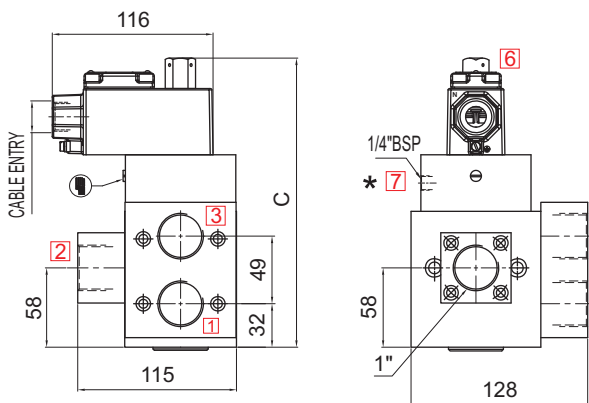
Valve Type	'C'
31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, I3001V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP	208
31121, 31206	218

**SERIES : 32P**

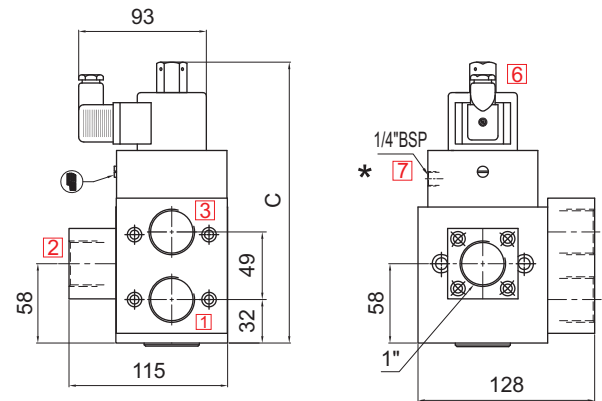
**3/2 INTERNAL/ EXTERNAL PILOT OPERATED, NORMALLY CLOSED/ OPEN SOLENOID VALVE**

**DIMENSIONS**

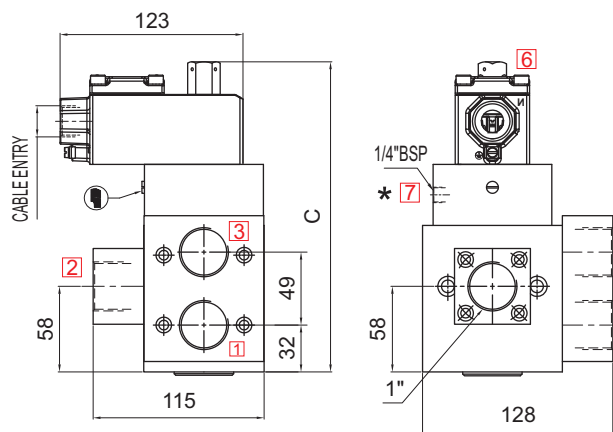
All Dimensions are in mm



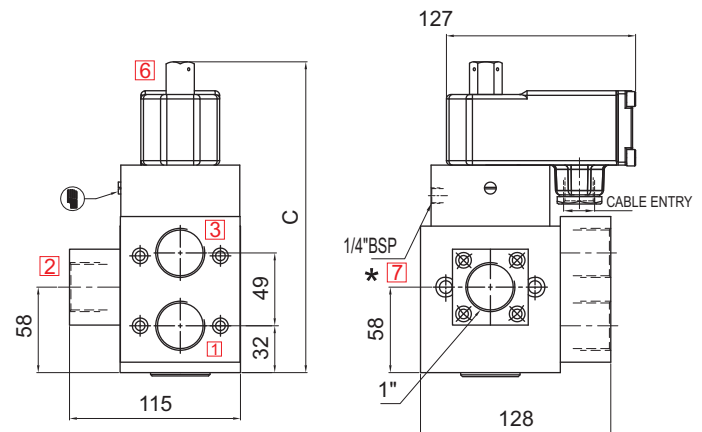
Valve Type	31119, 31120, 31209, 31210, 32301, P3001V01, P3003V01, P3006V01
Enclosure Type	16, 19, 37, 39, 58, 58LT
Body Material	Aluminium, SS
Orifice	25
Port Connection	1"
* PORT 7 only for valve type 32301, P3006V01	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	25, 65CR
Body Material	Aluminium, SS
Orifice	25
Port Connection	1"
* PORT 7 only for valve type 32301, P3006V01, P3008, I3004V01, I3004V01RP	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	16, 19, 37, 39, 58, 58LT, 67
Body Material	Aluminium, SS
Orifice	25
Port Connection	1"
* PORT 7 only for valve type 32301, P3006V01, I3004V01, I3004V01RP	



Valve Type	31119, 31120, 31209, 31210, 32301, I3003V01, I3004V01, I3005V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP, 31121, 31206
Enclosure Type	17, 87, 66, 71
Body Material	Aluminium, SS
Orifice	25
Port Connection	1"
* PORT 7 only for valve type 32301, P3006V01, I3004V01, I3004V01RP	

Valve Type	'C'
31119, 31120, 31209, 31210, 32301, I3003V01, I3005V01, I3001V01, I3004V01, I3003V01RP, I3005V01RP, I3004V01RP, P3001V01, P3003V01, P3006V01, P3007, P3008, P3009, 31120EP, 31210EP	208
31121, 31206	218