

The specification key is for internal use only
(please do not pass on to customers)

Specification Key Type 2012 EUROPE / NORTH AMERICA / ASIA PACIFIC

2012 - X - X - XXXX - XX - XX - XXXX - X - X - X - XXXX * XXXX

Circuit function
A: normally closed by spring action
B: normally open by spring action
I: double acting

Ways
2: 2/2 way

Orifice [mm] / [inch]

10.0 / 3/8"
15.0 / 1/2"
20.0 / 3/4"
25.0 / 1"
32.0 / 1 1/4"
40.0 / 1 1/2"
50.0 / 2"
65.0 / 2 1/2"
80.0 / 3"
100.0 / 4"

Seal Material
EE: PTFE
BB: NBR
FF: FPM
AA: EPDM

Body Material
VA: Coated Stainless Steel 316 L

Control air
connection
0000 Integrated

Interface

Body/actuator
N1 Fitting M20x1.5 (DN15)
N2 Fitting M24x1.5 (DN20)
N3 Fitting M30x1.5 (DN25)
N4 Fitting M36x2 (DN32)
N5 Fitting M42x2 (DN40)
N6 Fitting M50x2 (DN50)
N7 Fitting M60x2 (DN65)
N8 Fitting M80x2 (DN80)
N9 Fitting M120x2 (DN100)

Actuator Size

C: Ø 40mm DN 10, 15, 20
D: Ø 50mm DN 10, 15, 20, 25
E: Ø 60mm DN 20, 25, 32, 40, 50
F: Ø 80mm DN 25, 32, 40, 50, 65
G: Ø 100mm DN 32, 40, 50
H: Ø 125mm DN 40, 50, 65
K: Ø 175mm DN 65, 80, 100
L: Ø 225mm DN 80, 100

Actuator Version

C: PA-Actuator / Stainless Steel G Thread Connection
D: PPS-Actuator / Stainless Steel G Thread Connection

Variables

ECOX with reduced spring
LEOS magnet piston for external switch
MC16 flow above elast
NA02 vacuum version
NA 34 oil-free
NA48 oil-free with PTFE gland seal
NL02 oxygen version oil- and fat-free
NL05 Oil-fat-4-silicone free
PD19 USA version
PD 21 ASIA version
PD99 South America version

Port Connection

Port size	Threaded port	NPT	RC	ISO	DIN	BS 4825 part 1	ASME BPE 1)	ISO 2852 SMS3017	BS 4825 part 3	DIN32778	Range	ANSI ASME B16.5 1-1/4" ISA S75.03	JIS 10K, B2238 1-1/4" JIS B2002 S20
DN 10.0 / 3/8"	G 3/8"	NM83 NPT 3/8"	RC83 RC 3/8"	SA41 SD40	SD40	SODD	SA92	TC42	TH42	TD42	FD21	FA02	FJ01
15.0 / 1/2"	G 1/2"	NM84 NPT 1/2"	RC84 RC 1/2"	SA42 SD42	SD42	SODE	SA93	TC43	TH43	TD43	FD22	FA03	FJ02
20.0 / 3/4"	G 3/4"	NM85 NPT 3/4"	RC85 RC 3/4"	SA43 SD43	SD43	SODF	SODF	TC44	TH44	TD44	FD23	FA04	FJ03
25.0 / 1"	G 1"	NM86 NPT 1"	RC86 RC 1"	SA44 SD44	SD44	SODH	SODH	TC45	TH45	TD45	FD24	FA05	FJ04
32.0 / 1 1/4"	G 1 1/4"	NM87 NPT 1 1/4"	RC87 RC 1 1/4"	SA45 SD45	SD45	SODH	SODH	TC46	TH46	TD46	FD25	FA06	FJ05
40.0 / 1 1/2"	G 1 1/2"	NM88 NPT 1 1/2"	RC88 RC 1 1/2"	SA46 SD46	SD46	SODI	SODI	TC47	TH47	TD47	FD26	FA07	FJ06
50.0 / 2"	G 2"	NM89 NPT 2"	RC89 RC 2"	SA47 SD47	SD47	SODJ	SODJ				FD27	FA08	FJ07
65.0 / 2 1/2"	G 2 1/2"	NM90 NPT 2 1/2"	RC90 RC 2 1/2"	SA48 SD48	SD48	SODK	SODK				FD28	FA09	FJ08
80.0 / 3"	G 3"	NM91 NPT 3"	RC91 RC 3"	SA49 SD49	SD49	SODL	SODL				FD29	FA10	FJ09
100.0 / 4"	G 4"	NM92 NPT 4"	RC92 RC 4"	SA99 SD90	SD90	SODL	SODL				FD30		FJ09

1) ASME BPE 1" up to 4" same as BS 4825 part 1

1-1: face to face dimension

Flow Sensor Number System

Specification:

8025	00	BC89	PD	FF	#	P1	A	F4	B	BCV	/	DC	A
SENSOR TYPE							OUTPUT						
MARKETING CODE							TYPE OF VOLTAGE						
PORT CONNECTION							VOLTAGE						
MATERIAL							DESIGN						
SEAL MATERIAL							SENSOR FUNCTION						
SENSOR VERSION							MEASURE RANGE						

VALVE TYPE: 8020, 8025, 8030, 8035	SENSOR FUNCTION: F1 = Measurement F2 = Measurement + totalizers F3 = Measurement + pulse output F4 = Measurement + pulse output + totalizers F5 = Batch + 2 relays + 2 totalizers + flow rate
CODE FOR MARKETING: 00	
PORT CONNECTION: 0000 = Without body BC89 = G2 Union Unit	
MATERIAL: 00 = Without body or no detail PD = PVDF (Polyvinylidenefluoride)	DESIGN: A = Cable plug B = 1/2" conduit plug C = 2X cable gland entry D = 2X 1/2" conduit gland entry
SEAL MATERIAL 00 = Without seal material AA = EPDM FF = FPM	VOLTAGE: 0000 = Without coil 09 = 9V 115 = 115V 230 = 230V BCV = 12-30V
SENSOR VERSION 00 = Without sensor P1 = Paddlewheel with hall short P2 = Paddle wheel with hall long P3 = Paddlewheel with coil short P4 = Paddlewheel with coil long	TYPE OF VOLTAGE: 00 = Without coil AC = Alternating current DC = Direct current BA = Battery current
MEASURING RANGE: A = Programmable	OUTPUT: A = 4-20mA F = 4-20mA + reed relay + pulse output G = 4-20mA + relays Y = Without output

VALVE TYPE: 2000, 2001, 2002, 2030, 2031, 2632, 3231	PORT SIZE: (Threaded) 83 = 3/8" 84 = 1/2" 85 = 3/4" 86 = 1" 87 = 1 1/4" 88 = 1 1/2" 89 = 2" 90 = 2 1/2"	PORT SIZE: (Socket weld) DC = 1/4" DD = 1/2" DE = 3/4" DF = 1" DG = 1 1/4" DH = 1 1/2" DI = 2"
VALVE OPERATION: A - 2 Way Normally Closed B - 2 Way Normally Open C - Double Acting		
POSITIONS: 2 Way 3 Way - G Thread only		
ORIFICE SIZE: Orifice Diameter in Millimeters	ACTUATOR MODEL: B = PA Actuator/Brass Stem C = PA Actuator/Stainless Stem D = PPS Actuator/Stainless Stem	
SEAL MATERIAL AB - EPDM - Ethylene Propylene EE = PTFE (Teflon) FF = FPM (Fluorine Rubber) SS = Stainless Steel EA = PTFE/EPDM	ACTUATOR SIZE: C = 40 mm* D = 50 mm E = 63 mm F = 80 mm G = 100 mm H = 125 mm * Compact version only	
BODY MATERIAL: RG = Brass PV = PVC PD = PVDF VS = Stainless (High Purity) VA = Stainless (General Purpose)	VARIANCES: E09/NC14 = 1067 Positioner included MC13 = Flow above seat PD19 = U.S. version NA02 = Vacuum version NO01+NO05 Glassbead finish interior & exterior NO01+NO06 Glassbead finish interior & exterior NO10 = Interior and exterior electropolished	
THREADS: NM = NPT GM = G Thread (BSP) SO = O.D. Tube TD = U.S. Tri-Clamp (2031/3231 only) TC = European Tri-Clamp FA01 = ANSI Flange		