



Worcester Controls

Industrial Ball Valves and Actuators

Flanged valves Identification chart

FIELD A Size

NOMINAL PIPE BORE SIZE		DIGITS	
inches	mm	1	2
1/2"	15	0	5
3/4"	20	0	7
1"	25	1	0
1 1/4"	32	1	2
1 1/2"	40	1	5
2"	50	2	0
2 1/2"	65	2	5
3"	80	3	0
4"	100	4	0
6"	150	6	0
8"	200	8	0
10"	250	A	0

FIELD E DIGIT 13 Seat material

DIGIT 13	MATERIAL	DIGIT 13	MATERIAL
A	Polyether Ether Ketone (Peek)	N	Alpha
B	Buna N	P	Polyfill/Fluorofill
C	Carbon filled PTFE	Q	Lubetal
D	Delrin high pressure	R	15% Glass filled PTFE
E	E.P.D.M.	S	Silicone
F	CPR type virgin PTFE	T	Virgin PTFE
G	Gamma	U	Ultra high molecular wt. polyethylene (UHMWPE)
H	VX1	V	Viton
I	PTFE impregnated inconel	W	Vespel
J	Nab one end, VX1 the other	X	Poly peek
K	Kel F	Y	Delrin
L	CPR type 15% Glass filled PTFE	Z	PTFE imegnated monel
M	FEP		

FIELD E DIGIT 14 Seal material

DIGITS 14	MATERIAL
A	Polyether Ether Ketone (Peek)
B	Buna N
C	Carbon filled PTFE
E	E.P.D.M.
F	F.E.P.
G	Graphite coated metal gasket
K	KEL F
M	PTFE coated metal gasket
N	Neoprene
R	15% Glass filled PTFE
S	Silicone
T	Virgin PTFE
U	Ultra high molecular wt. polyethylene (UHMWPE)
V	Viton
Z	Flexible graphite

FIELD F Types of flanged connection

There are 6 digits in this field. The code is dependent upon valve series as detailed below.

DIGITS 15, 16, 17, & 18, 19, 20	RATING	FLANGE STANDARD	SERIES	DIGITS 15, 16, 17, & 18, 19, 20	RATING	FLANGE STANDARD	SERIES
150	Class 150	BS 1560/ANSI B16.5	51	15D	Table A-D	BS 10	55
110	PN10	BS 4504		15E	Table E	BS 10	
116	PN16	BS 4504		15F	Table F	BS 10	
15D	Table D	BS 10		15H	Table H	BS 10	
15E	Table E	BS 10		325	PN25	BS 4504	56
15F	Table F	BS 10		340	PN40	BS 4504	
300	Class 300	BS 1560/ANSI B16.5	52	30F	Table F	BS 10	
325	PN25	BS 4504		30H	Table H	BS 10	
340	PN40	BS 4504		300	Class 300	BS 1560/ANSI B16.5	
30H	Table H	BS 10		150	Class 150	BS 1560/ANSI B16.5	53
D10	PN10	DIN 2542 BS 4504	53	110	PN10	BS 4504	
D16	PN16	DIN 2543 BS 4504		116	PN16	BS 4504	
D25	PN25	DIN 2544 BS 4504		15D	Table D	BS 10	
D40	PN40	DIN 2545 BS 4504		15E	Table E	BS 10	
				15F	Table F	BS 10	
D10	PN10	DIN 2542 BS 4504	54	300	Class 300	BS 1560/ANSI B16.5	54
D16	PN16	DIN 2543 BS 4504		325	PN25	BS 4504	
D25	PN25	DIN 2544 BS 4504		340	PN40	BS 4504	
D40	PN40	DIN 2545 BS 4504		30H	Table H	BS 10	
110	PN10	BS 4504	55	D10	PN10	DIN 2542 BS 4504	55
116	PN16	BS 4504		D16	PN16	DIN 2543 BS 4504	
125	PN25	BS 4504		D25	PN25	DIN 2544 BS 4504	
140	PN40	BS 4504		D40	PN40	DIN 2545 BS 4504	
150	Class 150	BS 1560/ANSI B16.5					

A		B			C			D				E		F			G				H			
SIZE		STANDARD VARIANT			SERIES		I	BODY	END	BALL	STEM	SEAT	SEAL	END 1		END 2		SPECIAL				REVISION		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

FIELD B Standard variant

DIGITS 3, 4, 5	VARIANT DESCRIPTION
A	Antistatic
B	Full bore (18/19 series)
C	Cryogenic (50 series)
E	High integrity
F	Fire design
J	Steam jacket
K	BS 5351 certified
LT	Low temperature
R	Non-fire design

FIELD C Series

DIGITS 6	DIGITS 7	DESCRIPTION
1	8	18 Series
1	9	19 Series
5	1	51 Series
5	2	52 Series
5	3	53 Series
5	4	54 Series
5	5	55 Series
5	6	56 Series
6	3	63 Series
9	6	96 Series
9	7	97 Series

FIELD D Major component materials

Each of the 4 major components has its material recorded by putting a number into the 'D' Field

DIGITS	
9	Body
10	End
11	Ball
12	Stem

DIGITS 9, 10, 11, 12	MATERIAL
1	Brass
2	Ductile iron (SG & nodular)
4	Carbon steel
6	Stainless steel
H	Nickel-aluminium bronze
M	Special material (see field 'G')

FIELD G Special feature

DIGITS 21, 22, 23, 24	
The first digit will contain a C, N, P, Q or an M	
C	Customised numbers
N/P/Q	Special Valve
M	When the letter M appears anywhere in Field D (Digits 9, 10, 11 & 12) the appropriate code for the material e.g. M121 (Nickel Aluminium Bronze) will appear in Field G. This is omitted if the valve is P or Q.

FIELD H Revision

DIGIT 25
This letter denotes the revision of the bill of material for the product.