



## V42 SERIES DIAPHRAGM VALVE MASTER CHART

\* FILL IN PROPER DESIGNATIONS TO DETERMINE PRODUCT NUMBER: **V 4 2**

PIPE SIZE (B thru L std)	
B = 3/4" (20mm)	G = 2" (50mm - V426)
C = 1" (25mm)	H = 2-1/2" (63mm)
D = 1-1/4" (32mm)	J = 3" (75 or 80mm)
E = 1-1/2" (40mm)	K = 4" (100mm)
F = 2" (50mm - V425)	L = 6" (150mm)

BODY SIZE (ref only)	
1 = 1"	7 = 3"
4 = 1-1/2"	8 = 4"
5 = 2"	9 = 6"
6 = 2-1/2"	

END CONNECTIONS (0 std for V421, V424, V425, V426 & V427; 3 std for V428 & V429)	
0 = Female N.P.T.	3 = Flanged, A.S.T.M.
1 = Female B.S.P.T.	4 = Flanged, I.S.O. (Not valid on V429 valves)

BODY & CAP MATERIAL (0 std [opt 1 not available with flanged bodies])	
0 = Cast Iron - RED primer	C = Cast Iron - painted ASH
1 = Cast Brass	D = Cast Iron - painted BLUE

VALVE OPTIONS (00 std [SAO not available on V429]; [NC not valid with solenoid or float configurations])		
00 = NO	11 = NO, LS, SAO	30 = NC
01 = NO, SAO	20 = NO, PI	32 = NC, SAC
02 = NO, SAC	21 = NO, PI, SAO	40 = NC, LS
10 = NO, LS		SX = Special Valve **

SEAL MATERIALS (0 std) (Option 5 not valid for NC valves or solenoid EO or EC valves)						
OPT.	OPERATING DIAPHRAGM	SEALING DISK	DYNAMIC SEALS	STATIC SEALS	KIT SERIES	Max Temp
0	Buna-N	Buna-N	Buna-N	Buna-N	RA	150° (65° C)
1	Buna-N	EP	EP	EP	RAE	200° (93° C)
2	Fluoroelast.	Fluoroelast.	Fluoroelast.	Fluoroelast.	RAV	250° (121° C)
4	Fluoroelast.	EP	EP	EP	RAEFV	200° (93° C)
5	Buna-N	Fluoroelast.	Fluoroelast.	Fluoroelast.	RAVFB	200° (93° C)
7	Buna-N	Hycar	Buna-N	Buna-N	RAJH	150° (65° C)

INTERNAL PARTS	
0 = Brass and Stainless Steel	

DRILL & TAP BOSSES (0 std [1/4" NPT std for all sizes]) (See notes 1 & 2)		
0 = None	4 = Boss #4	8 = Bosses #2,4
1 = Boss #1	5 = Bosses #1,2,3,4	A = Bosses #2,3
2 = Boss #2	6 = Bosses #1,2	
3 = Boss #3	7 = Bosses #1,3	

SOLENOID or FLOAT OPTIONS (0 std) (Options 1 thru 5 and A thru X are not valid with NC valves)				
0 = None				
See valve options # -3				
Solenoid Options	Float Options	Closed If	Close By	Open By
1 = Energize to Open (EO)	A = 3000 Float	High	Pilot Press.	Vent
2 = Energize to Close (EC)	B = 3010 Float	High	Pilot Press.	Pilot Press.
3 = Independent Pressure (IP)	C = 3011 Float	Low	Pilot Press.	Vent
4 = EO w/ Dry Drain	D = 3012 Float	Low	Pilot Press.	Pilot Press.
5 = EC w/ Dry Drain	E = 3010B Brine Float	High	Pilot Press.	Pilot Press.
	X = Replacement Valve Only (Includes Shaft Spacer)			

SOLENOID or FLOAT FEATURES (0 std [Polystyrene Float & 3/6" Brass Rod are std Float features])		
0 = None		
See valve options # -3		
Solenoid Option Features	Float Option Features	
1 = 115V/60 HZ, NEMA 1	L = Not available	
2 = 220V/50 HZ, NEMA 1	M = Not available	
3 = 24V/60 HZ, NEMA 1	N = 5/4" Brass Float Rod	
4 = 115V/60 HZ, NEMA 3, 3S, 4, 4X, 6, 6P, 7, 9	P = Not available	
5 = Not available	X = Less Float & Rod	
6 = Not Used		
A = 24VDC, NEMA 1		
B = Not available		

\* To create a valve number replace each "\_" with the proper number or letter for the feature you desire. For example, a 3/4" NPT Cast Iron Valve Model V421 with Normally Closed and Spring Assist Closed Options is designated as a V42B-0032-0000.

\*\* A special valve will have a custom drawing number (\_\_\_\_\_) and the item number format is ( V42?-??SX-\_\_\_\_\_) where the last 5 numbers (Far Right) are the last five digits of the drawing number.

**Valve Option Notes:**

- Bosses #1, 2, 3, & 4, are always drilled and tapped on V429 and does not need to be specified in part no.
- Bosses needing to be drilled and tapped for solenoid or floats do not need to be specified in part no.
- Float Options not available for Valve size 425 thru 429.

REV.	ECO. NO.	DESCRIPTION	BY/DATE
G	22032	Added: seal material temperatures	JJJ 30-Nov-10
H	101762	REMOVED SS OPTION FOR INTERNAL PARTS	NBE 3/21/2013
J	102769	Updated bosses 1-4 tapped on 429 valves. (note-1)	TJM 14-Nov-13
K	103189	REM'D SOLENOID OPTION 6	TJM 27-Mar-14
L	103342	REM'D FLOAT OPTIONS FOR 424 THRU 429, REM'D OPTIONS FOR L,M,&P FLOATS, REM'D OPTION 5 & B FOR SOLENOIDS	TJM 22-Jul-14

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