



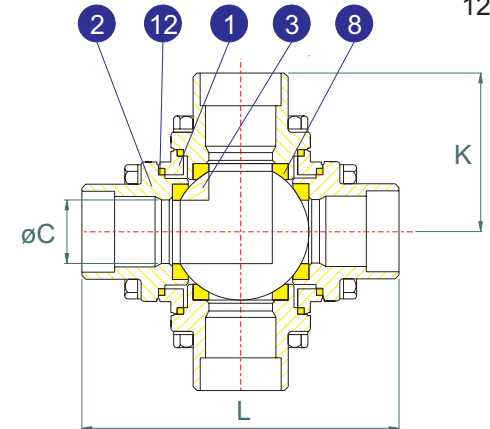
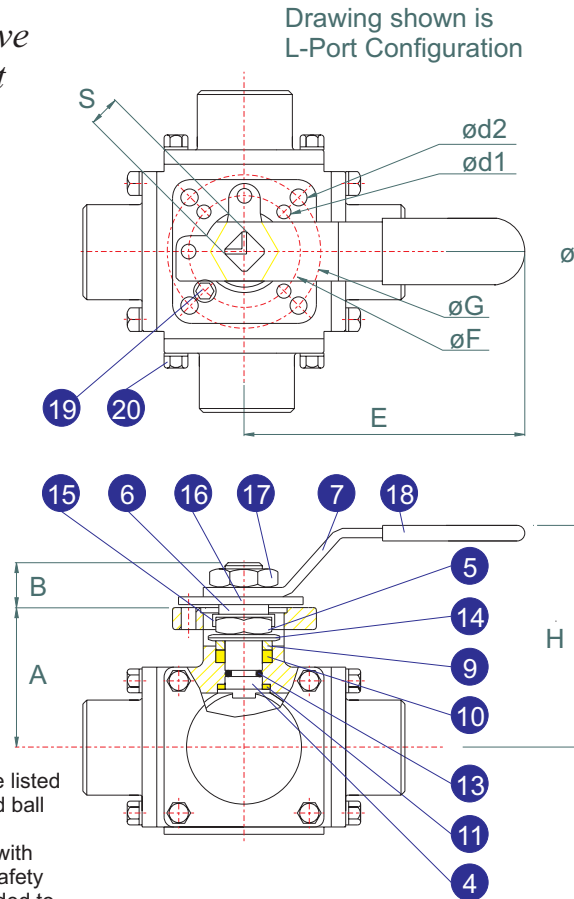
# Ver. N, Model 5-7

Four-Way Block Style Direct Mount Ball Valve  
 Full Port, 800PSI WOG, L, T Port, or X-Port  
 5-7T: Threaded End, 5-7B: Butt Weld End  
 5-7S: Socket Weld End  
 1/4" (DN8) to 2" (DN50)

## MATERIALS LIST

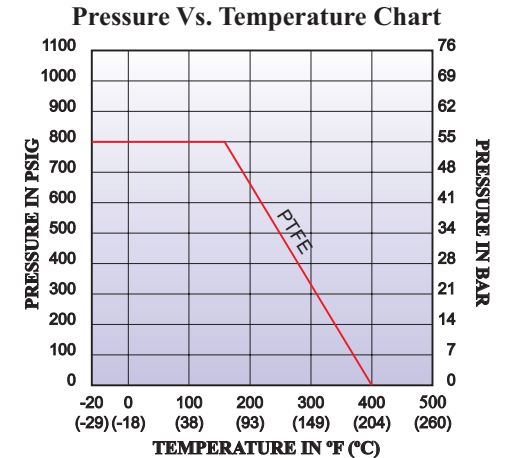
NO.	PART NAME	MATERIAL	Q'TY
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap	ASTM A351 Gr. CF8M	4
3	Ball	SUS316	1
4	Stem	SUS316	1
5	Stem Nut	SUS 304	1
6	Spacer	SUS 304	1
7	Handle	SUS 304	1
8	Seat	PTFE *	4
9	Gland	SUS 304	1
10	Stem Packing	PTFE	1
11	Thrust Washer	RPTFE	1
12	Joint Gasket	PTFE	4
13	O-Ring	Viton	1
14	Belleville Washer	SUS 301	2
15	Lock Saddle	SUS 304	1
16	Locking Plate	SUS 304	1
17	Handle Nut	SUS 304	1
18	Handle Sleeve	Vinyl	1
19	Stop Pin	SUS 304	1
20	Cap Bolt	SUS 304	16

\* Other options available: 15% Glass Fiber Filled PTFE or 15% Carbon Fiber Filled PTFE



Socket Weld End Cap Show in the drawing.  
 L applies to Threaded and Butt Welds as well

Note: Torque Value listed is for non-lubricated ball valve at differential pressure of 75PSI with clear liquid. 20% safety factor has been added to the value.



## DIMENSIONS (mm)

SIZE	IN-LB	NM
1/4"	140	15.8
3/8"	140	15.8
1/2"	152	17.1
3/4"	166	18.8
1"	338	38.2
1 1/4"	397	44.8
1 1/2"	549	62.0
2"	881	99.5

SIZE	øC	ød1	ød2	øF	øG	A	B	E	H	K	L	S
1/4"	8	6.0	6.0	36	42	39	11	130	62	44	88	9
3/8"	10	6.0	6.0	36	42	39	11	130	62	44	88	9
1/2"	15	6.0	6.0	36	42	41	11	130	64	53	105	9
3/4"	20	6.0	7.1	42	50	49	14	165	82	56	112	11
1"	25	6.0	7.1	42	50	55	14	165	89	64	128	11
1 1/4"	32	7.1	9.2	50	70	63	18	205	98	70	140	14
1 1/2"	38	7.1	9.2	50	70	74	18	205	108	80	160	14
2"	50	9.2	11.4	70	102	93	23	325	140	96	192	17



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 5-7S: Socket Weld End  
 2½" (DN65) to 4" (DN100)

## MATERIALS LIST

NO.	PART NAME	MATERIAL	Q'TY
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap	ASTM A351 Gr. CF8M	4
3	Trunion Ball	SUS316	1
4	Bushing	†	1
5	Top Cap Bolt	SUS 304	8
6	Handle T-Bar	ASTM A351 Gr. CF8	1
7	Lever	Carbon Steel	1
8	Seat	PTFE *	4
9	Gland	SUS 304	1
10	Stem Packing	PTFE	1
11	Top Cap Gasket	PTFE	1
12	Joint Gasket	PTFE	4
13	O-Ring	Viton	1
14	Belleville Washer	SUS 301	2
15	Gland Washer	SUS 304	1
16	Handle Bolt	SUS 304	1
17	Stop Pin	SUS 304	1
18	End Cap Bolt	SUS 304	16

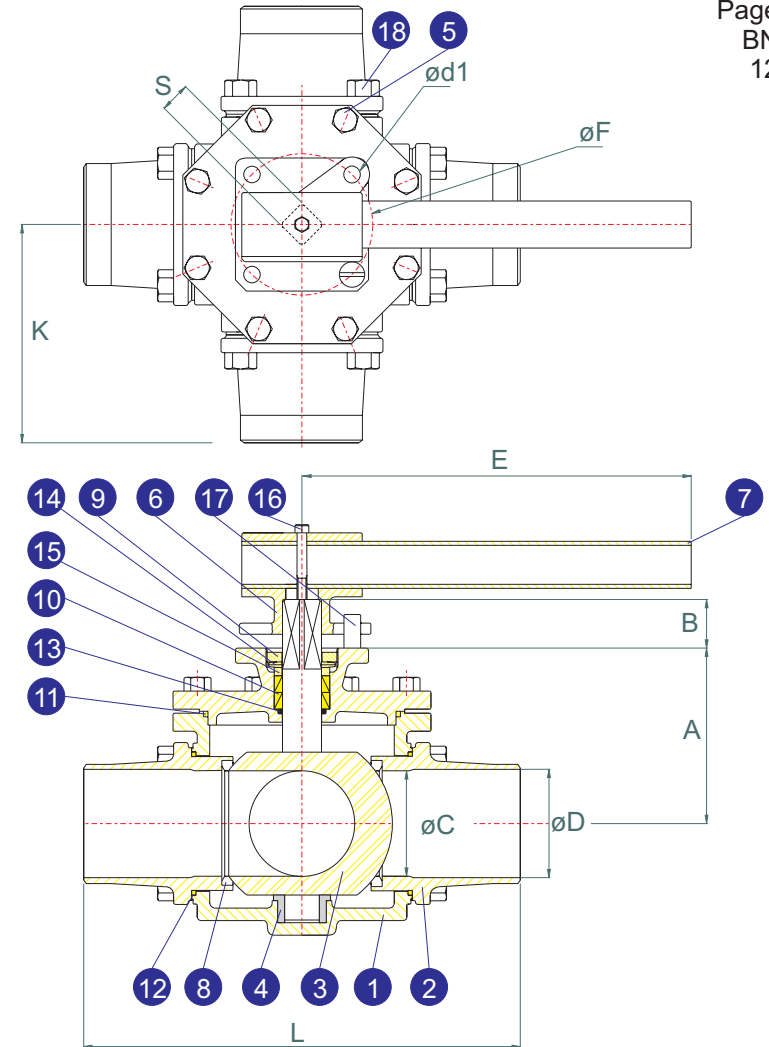
† 50% Stainless Steel Powder Filled PTFE

\* Other options available: 15% Glass Fiber Filled PTFE or 15% Carbon fiber filled PTFE

Note: Torque Value listed is for non-lubricated ball valve at differential pressure of 75PSI with clear liquid. 20% safety factor has been added to the value.

## Break Away Torque for Actuator Sizing

SIZE	IN-LB	NM
2½"	1155	130.5
3"	1404	158.6
4"	2821	318.8



Butt weld shown in the drawing. L applies to butt weld end caps only. L1 applies to threaded and socket weld end caps.

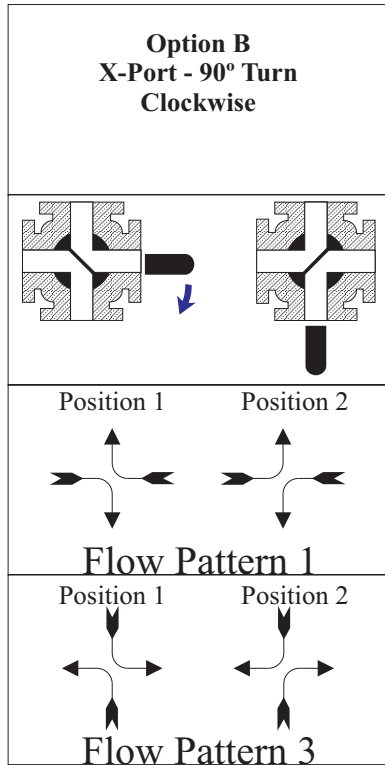
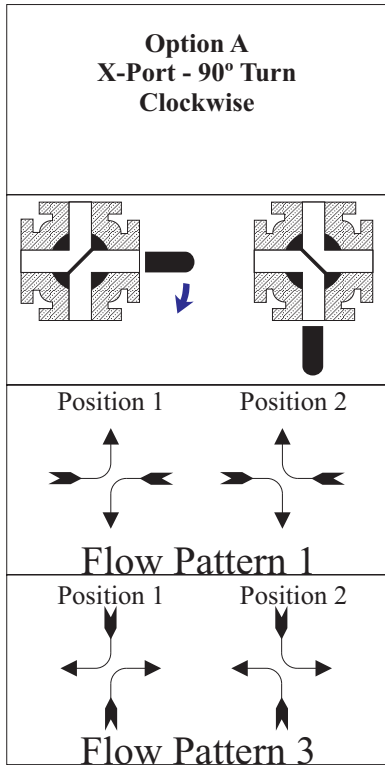
## DIMENSIONS (mm)

SIZE	$\phi C$	$\phi D$	$\phi d1$	$\phi F$	A	B	E	K	L	L1	S
2½"	62	65	11	102	119	25	400	133	265	294	22
3"	76	80	11	102	137	25	500	145	290	317	22
4"	96	100	11	102	157	25	650	173	345	369	22



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## LEGEND

- ← Up Stream (Flow Origin)
- ← Down Stream (Flow End)
- | No Flow
- Flow Path

### Flow Path Explained for Option A Flow Pattern 1:

