Technical Bulletin B – 43F

KOMOTO ANYCON® VALVE

Top Entry, Full Bore, V-notched Ball valves
Pat. No. : 20-2002-0016-52

Series 43F Feature

General:

Series 43F ANYCON valve is Top entry, full bore, trunnion, and stem ball type v-notched ball valve, which is exclusively designed for excellent proportional control as much as globe type control valves and manual valves.

Series 43F have special shape of disc which is suitable for accurate throttling control and on-off service not only general fluids but also critical condition in powders, slurry, gummy, fibrous material and other fluids having special characteristics.

Performance:

- High Cv body size ratio. (Full bore)
- Controls through 90° rotation.
- Excellent flow control rangeability.
- Easy maintenance.
- ISO standard Mounting Hole.
- Direct Mounting Actuator.

Design flexibility:

- Control any fluids.
- Flow push seat design.
- Full range of body and trim material options with available of hard facings.
- Seat changeability.
- Dual characteristics (Equal or Linear).
- Self-cleanning and tight seating.
- Double-eccentric disc options.

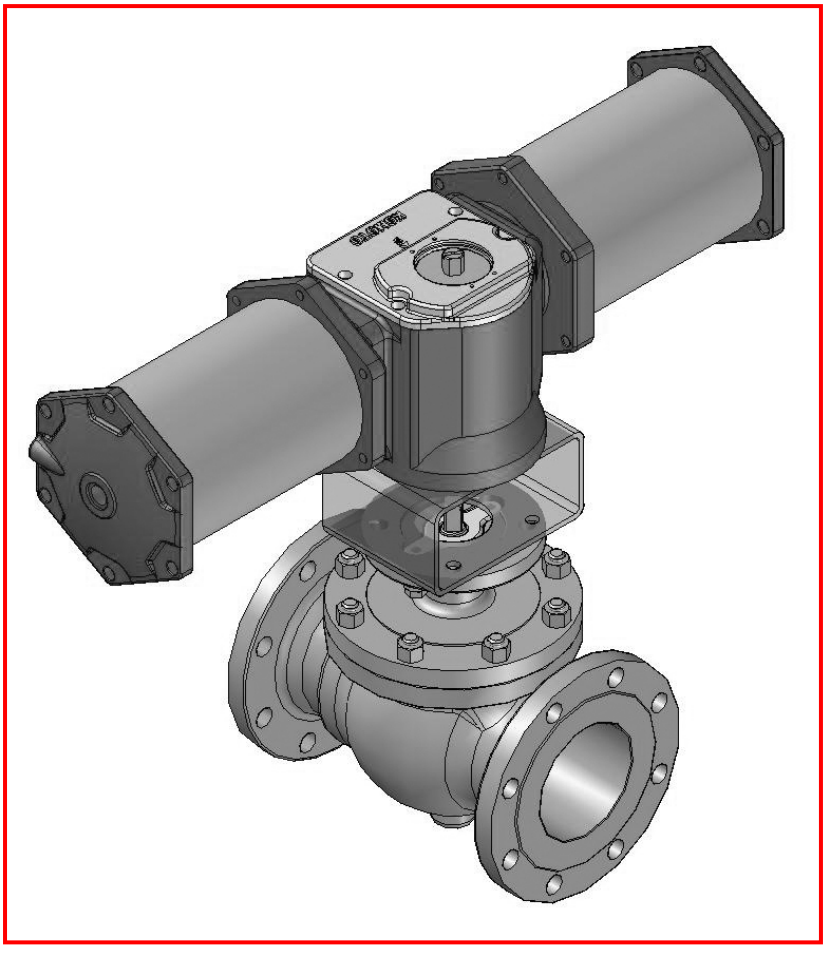
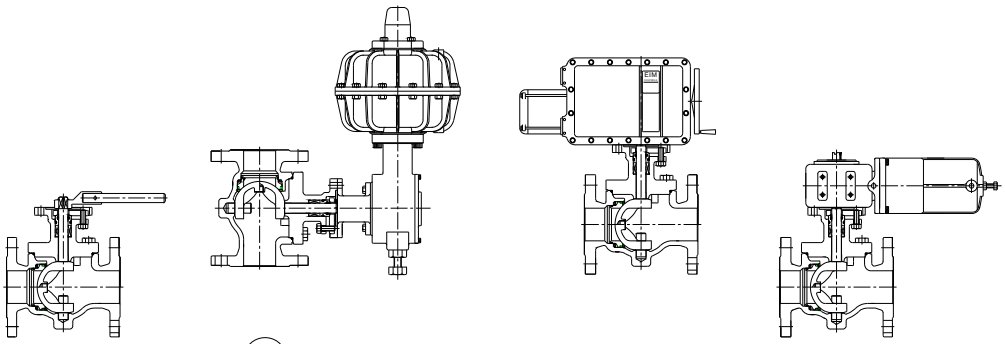
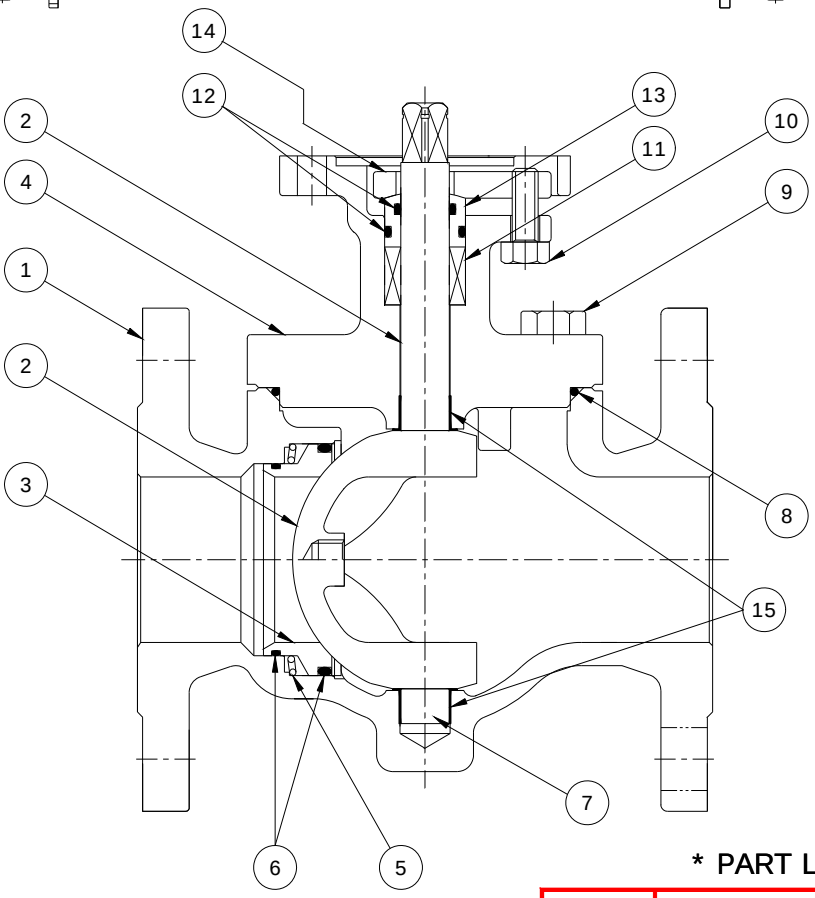


Figure 1. Series 43F V-notched Ball Valve





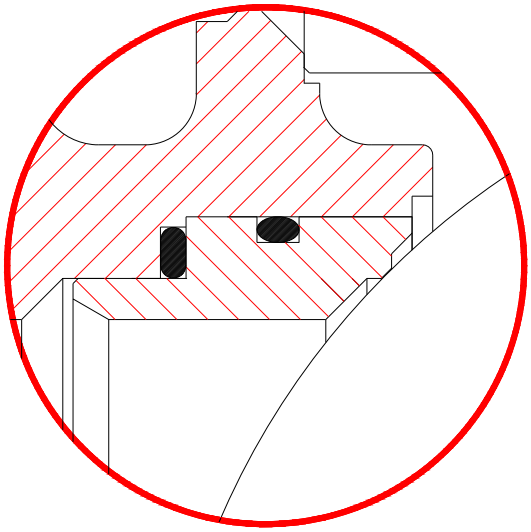
* PART LIST *

NO.	NAME	Q'TY
1	BODY	1
2	STEM BALL	1
3	SEAT RING	1
4	BONNET	1
5	SEAT SPRING	1
6	O-RING	2
7	BOTTOM STEM	1
8	O-RING / GASKET	1
9	HEX. HEAD BOLT	4 ~ 12
10	GLAND BOLT	2
11	GLAND PACKING	1
12	GLAND O-RING	2
13	GLAND FOLLOWER	1
14	GLAND FLANGE	1
15	BUSHING	2

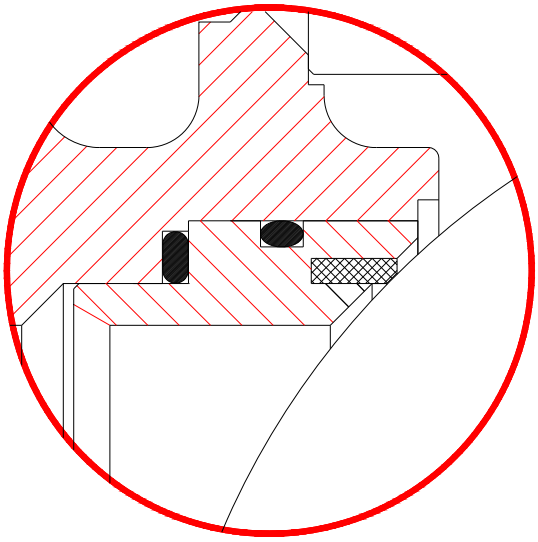
Standard Material of Construction :

Body	: Carbon sseel (ASTM A216 WCB)
	Stainless steel (ASTM A351 CF8, CF8M)
Segmented ball	: Stainless steel (ASTM A351 CF8, CF8M)
Seat * Soft	: Teflon, Reinforced teflon
* Metal	: Stainless steel (304ss, 316ss.) with
	stellite
Stem	: Stainless steel (316 S.S. 17-4PH)
Inboard Bearing	: Stainless steel/Teflon
Packing	: Teflon fiber
	Graphite
Other materials	: Combinations are available to suit more arduous or
	Corrosion resistant duties. please contact our factory.

Flow characteristics : Inherent equal percentage, linear



Soft Seat (Small Size)



Soft Seat (Large Size)

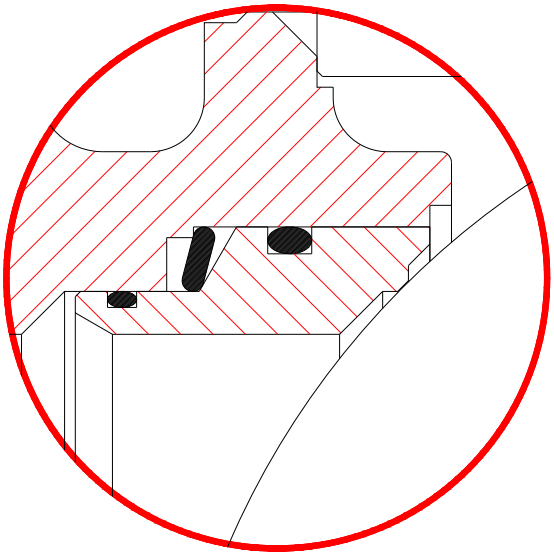
Maximum Leakage rates :

Soft seat : Class VI

Metal seat : Class IV

Actuation:

- Manual hand wheel
- Various types of actuation are available in
- Series 5500 spring opposed pneumatic diaphragm
- Series 3900S spring opposed pneumatic piston cylinder
- Series 3900D double acting pneumatic piston cylinder
- Series 2400 electric motor



Metal Seat

The CV value detailed in the table.

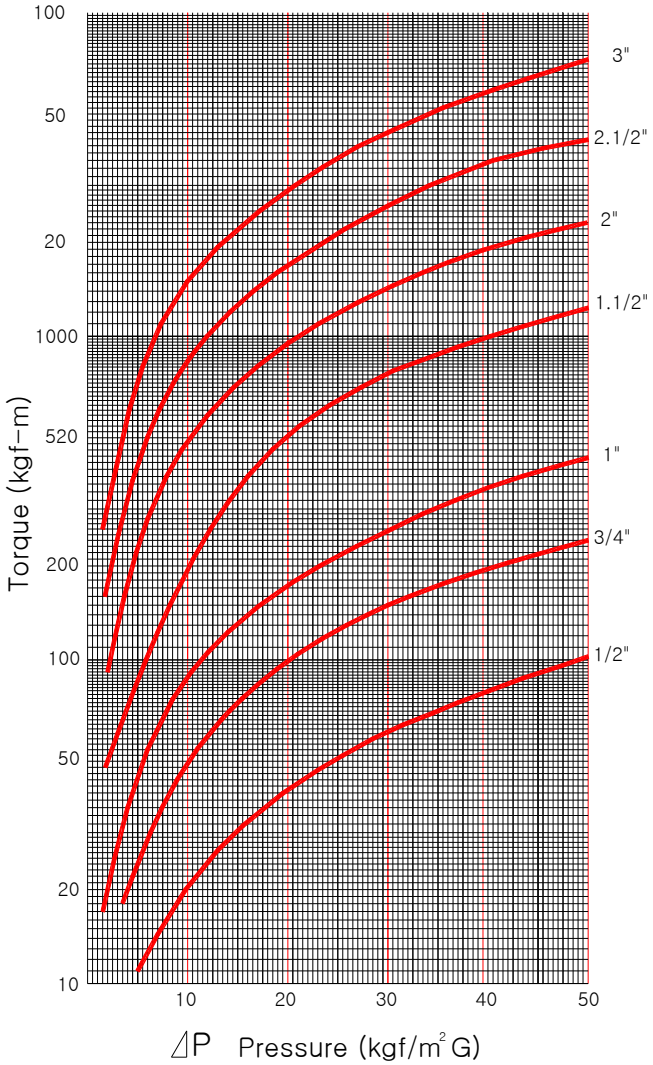
The figures by definition are related to the flow of water(SG = 1)

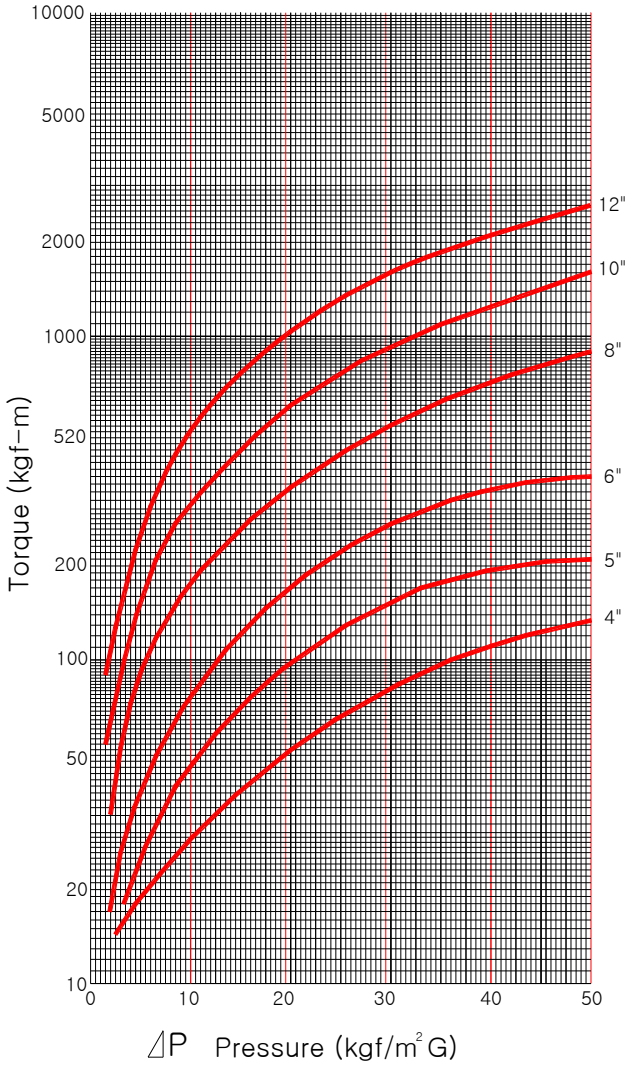
Through the valve in U.S. gallons per minute with a pressure drop of 1 lb/in^2

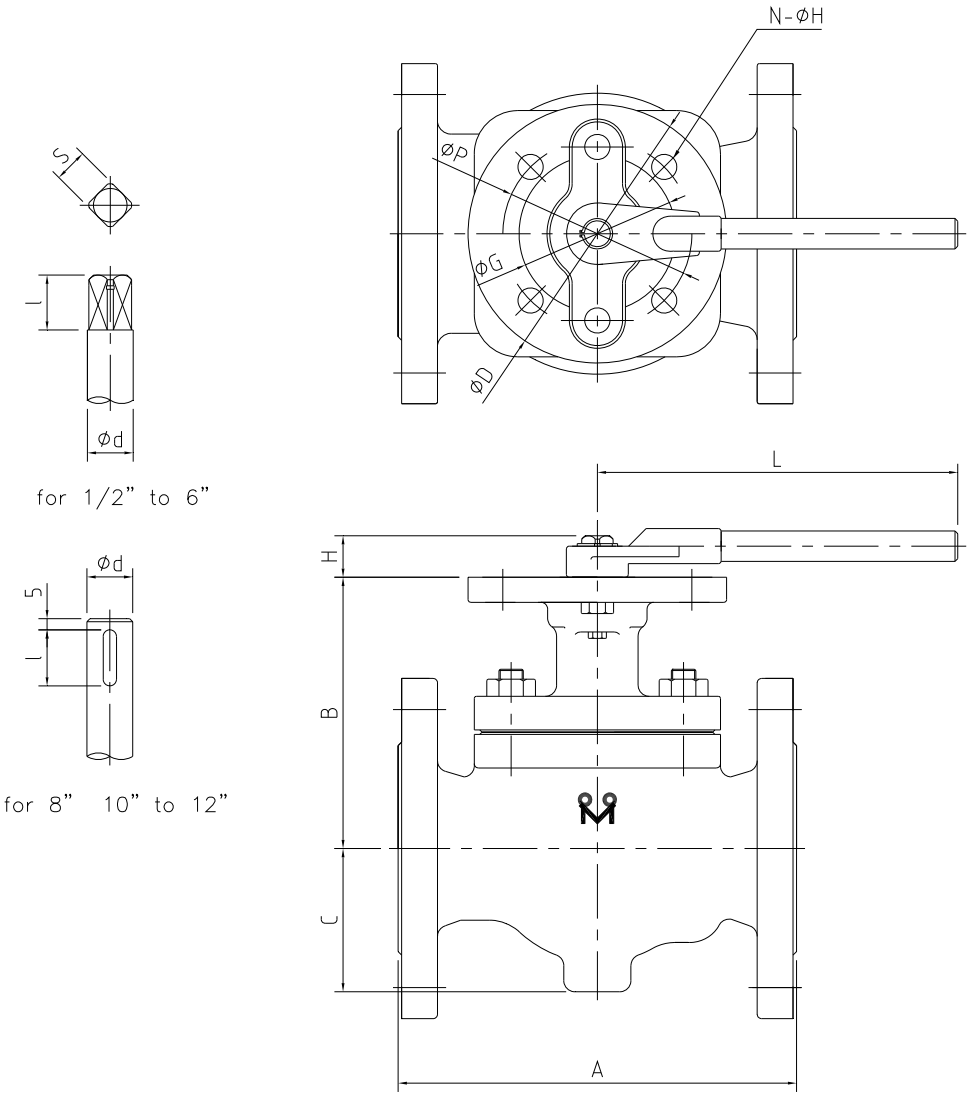
Table 1. Flow Coefficient (Cv)

Valve Size Inch	mm	Reactive Travel (%)						Valve Size Inch	mm	Reactive Travel (%)					
		10	30	50	70	90	100			10	30	50	70	90	100
1/2	15	0.22	0.49	1.06	2.32	5.07	7.50	4	100	14.20	31.04	67.88	148.44	324.6	480.0
3/4	20	0.50	1.10	2.40	5.26	11.50	17.00	5	125	22.18	48.50	106.07	231.94	507.2	750.0
1	25	0.89	1.94	4.24	9.28	20.29	30.00	6	150	31.94	89.85	152.74	333.99	730.3	1080.0
1½	40	2.00	4.37	9.55	20.87	45.65	68.00	8	200	56.78	124.17	271.53	593.76	1298.4	1920.0
2	50	3.55	7.76	16.97	37.11	81.1	120.0	10	250	88.73	194.02	424.26	927.75	2028.7	3000.0
2½	65	5.55	12.13	26.52	57.98	126.8	188.0	12	300	127.76	279.39	610.94	1336.0	2921.4	4320.0
3	80	7.99	17.46	38.18	83.50	182.6	270.0								

Table 2. Torque Curve (Kgf-m)







Unit : mm

SIZE	A		B	C	Ød	H	l	S	KEY	L	MOUNTING FLANGE				
	150#	300#									ØD	ØG	ØP	N-ØH	No.
1/2"	108	140	90	32	12	16	18	9		130	65	35	50	4-7	F05
3/4"	117	152	95	38	12	16	18	9		130	65	35	50	4-7	F05
1"	127	165	95	42	12	16	18	9		130	90	55	70	4-9	F07
1.1/2"	165	190	112	58	15	16	18	11		160	90	55	70	4-9	F07
2"	178	216	122	64	15	16	18	11		160	90	55	70	4-9	F07
2.1/2"	190	241	135	72	15	16	18	11		160	90	55	70	4-9	F07
3"	203	283	155	88	20	20	22	14		230	125	70	102	4-11	F10
4"	229	305	168	100	20	20	22	14		230	150	85	125	4-14	F12
5"	356	381	210	130	25	28	30	17		400	175	100	140	4-18	F14
6"	394	403	225	140	25	28	30	17		400	175	100	140	4-18	F14
8"	457	502	290	180	30	40	30		8 x 7		300	200	254	8-18	F25
10"	533	568	340	220	35	50	40		10 x 8		300	200	254	8-18	F25
12"	610	648	395	250	40	60	50		12 x 8		350	230	298	8-22	F30