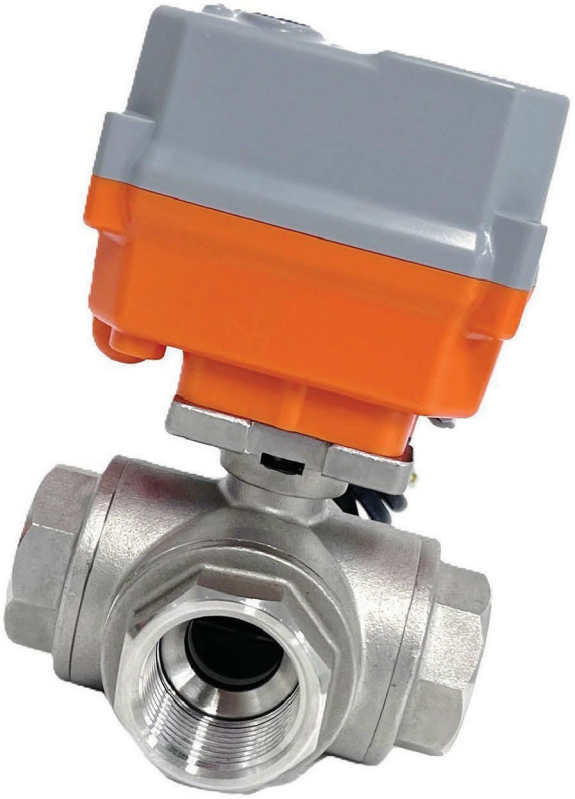
Fluidflo
VALVE SOLUTIONS

Maxtorque

FVS Series DN15-DN100

316 Stainless Steel
Electric 2 & 3-Way Ball Valves



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TÜV SÜD

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MT SERIES 10- 200 ELECTRIC

The MT Basic & Smart series actuators are excellent for valve automation! A compact and durable design, with PC+PET plastic or, optional aluminum housing. These ¼" turn (90°) electric actuators are perfect for controlling the isolation and flow direction for 2-way & 3-way ball valves, making them ideal for various industrial applications.

Additional functions include –

Modulating: for precise control over the valve position, which is essential for applications requiring variable flow rates.

Failsafe: ensures the valve returns to a safe position in case of power failure, enhancing safety and reliability.

High Speed: for rapid actuation, which can be crucial in processes requiring quick response times.

Note: All actuators ranging from 10 Nm to 50 Nm come with a 0.8m prewired connecting cable 24 VAC / DC & 95 – 265 VAC are standard, other voltage and run time options are available upon request
For all wiring details, please refer to our datasheets under "Electric Actuators" ***Electric Actuators | Industrial Actuator Solutions | Fluidflo – Fluidflo***

Model	Run Torque/ Break Torque	Run Time	Voltage Options		ISO 5211	Output Drive	Connecting Cable
MT-10	10 Nm / 12Nm	5 s	24 VAC/DC	95-265 VAC	F03-F05	11mm	0.8m prewired AC300V rated 7 core
MT-20	20 Nm / 25Nm	10-15 s	24 VAC/DC	95-265 VAC	F03/F04/F05	14mm	0.8m prewired AC300V rated 7 core
MT-50	50 Nm / 60Nm	10-12 s	24 VAC/DC	95-265 VAC	F05/F07	14mm	0.8m prewired AC300V rated 7 core
MT-80	80 Nm / 90 Nm	10-12 s	24 VAC/DC	95-265 VAC	F05/F07	17mm	2 x M14 Conduit Wiring Box
MT-110	110 Nm / 140 Nm	10-12 s	24 VAC/DC	95-265 VAC	F05/F07	17mm	2 x M14 Conduit Wiring Box
MT-200	200 Nm / 240 Nm	25 s	24 VAC/DC	95-265 VAC	F07/F10	22mm	2 x M20 Conduit Wiring Box

FVS SERIES DN15 – DN100 – 316S/S BALL VALVES

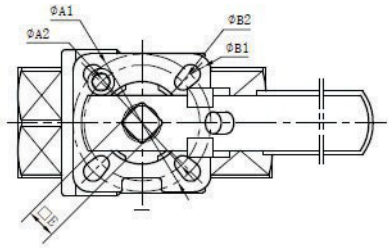
The V2 & V3 series 316 Stainless Steel ball valves are suitable for various industries and applications. Available in different configurations, sizes and design features, these valves are adaptable to a wide array of needs within industrial systems. The stainless-steel construction ensures durability and reliability in diverse operating conditions.

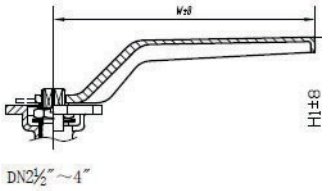
Available in 2, and 3-piece configurations, the V2/3 Series 2-Way valves offer flexibility in installation and maintenance. Our V Series 3-Way T & L Series provides versatility for diverse flow control requirements, accommodating different flow needs to cater for different system requirements and compatibility. Fluidflo V series are available in ANSI Standards or BSP threads, in full bore and reduced bore designs.

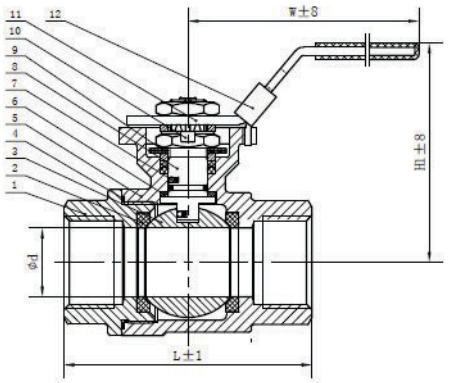
V2 SERIES 2-WAY STAINLESS STEEL BALL VALVE

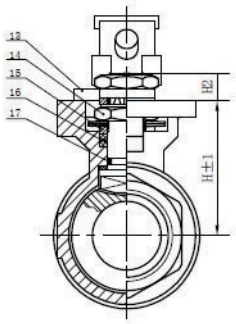
FEATURES:

- Ideal for the chemical, Industrial & general applications
- 2-piece 316 S/S design
- Adjustable packing gland
- Pressure rating – 1000 psi
- Blowout proof stem
- BSP threaded ends
- Tested to API598
- Face to face according to DIN3202-M3
- Manual handle with locking device
- Direct ISO 5211 mounting pad









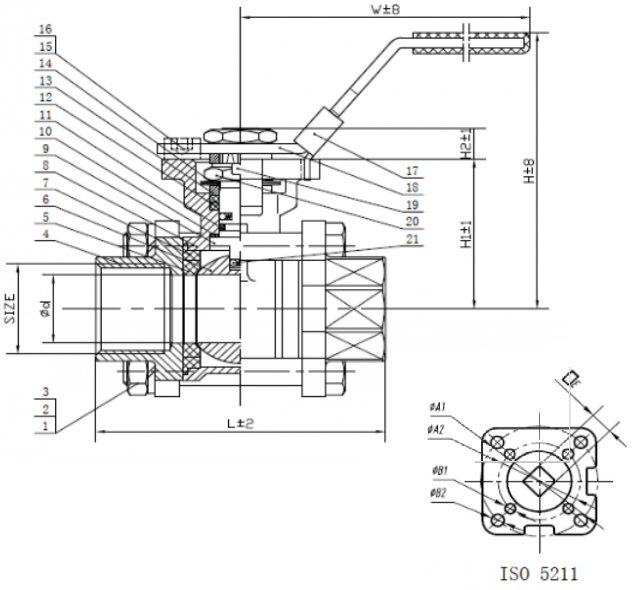
No.	Description	Material
1	Bonnet	CF8M
2	Seat	PTFE
3	Ball	316
4	Gasket	PTFE
5	Body	CF8M
6	Stem Gasket	PTFE
7	Anti-Static Device	304
8	Stem	316
9	Belleville Washers	304
10	Locking Tab	304
11	Handle	304
12	Handle Lock	304
13	Nut	304
14	Stem Nut	304
15	Packing Gland	304
16	Packing	PTFE
17	O-ring	Viton

SIZE	Ød	L	H	H1	H2	W	Cv(GPM)	□E	ØA1	ØA2	ØB1	ØB2	ISO5211
1/4"	12	60	30	66	7.5	125	8	9	42	36	6	6	F03/F04
3/8"	12	60	30	66	7.5	125	8	9	42	36	6	6	F03/F04
1/2"	15	75	37.5	74.5	8	125	15	9	42	36	6	6	F03/F04
3/4"	20	80	40.5	77	8	125	34	9	42	36	6	6	F03/F04
1"	25	90	49	84.5	10	153	56	11	50	42	6	7	F04/F05
1-1/4"	32	110	53	88.5	10	153	85	11	50	42	6	7	F04/F05
1-1/2"	38	120	62	107	14	195	125	14	70	50	7	9	F05/F07
2"	49	140	70	115	14	195	250	14	70	50	7	9	F05/F07
2-1/2"	64	185	97.5	153	16	250	320	17	102	70	9	11	F07/F10
3"	76	205	106.5	165	16	305	580	17	102	70	9	11	F07/F10

V3 SERIES 2-WAY STAINLESS STEEL BALL VALVE

FEATURES:

- Ideal for the chemical, Industrial & general applications
- 3-piece 316 S/S swing out design
- Adjustable packing gland
- Pressure rating – 1000 psi
- Blowout proof stem
- BSP threaded ends
- Tested to API598
- Face to face according to DIN3202-M3
- Manual handle with locking device
- Direct ISO 5211 mounting pad



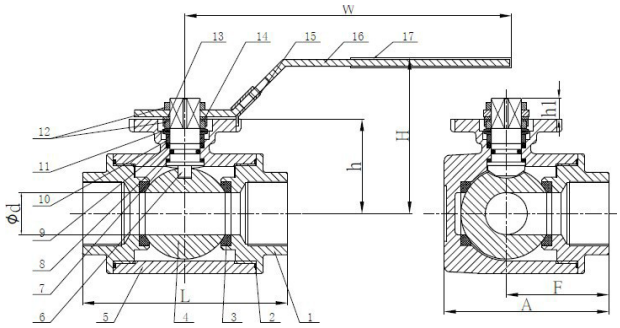
No.	Description	Material	No.	Description	Material
1	Bolt	304	11	O-Ring	FPM
2	Spring Washer	304	12	Packing	PTFE
3	Nut	304	13	Packing Gland	304
4	End Cap	CF8M	14	Belleville Washer	304
5	Seat	PTFE	15	Screw	304
6	Ball	316	16	Nut	304
7	Gasket	PTFE	17	Handle Lock	304
8	Body	CF8M	18	Handle	304
9	Stem	316	19	Locking Tab	304
10	Stem Gasket	PTFE	20	Stem Nut	304
			21	Anti-Static Device	304

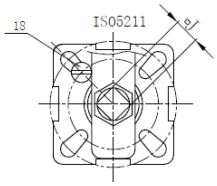
SIZE	ød	L	H	H1	H2	W	CV(GPM)	□E	øA1	øA2	øB1	øB2	ISO5211
1/4”	10	60	67	31	8	125	8	9	42	36	6	6	F03/F04
3/8”	12	60	67	31	8	125	8	9	42	36	6	6	F03/F04
1/2”	15	75	76	40	8	125	15	9	42	36	6	6	F03/F04
3/4”	20	80	82	46	8	125	34	9	42	36	6	6	F03/F04
1”	25	90	91	55	10	153	56	1	50	42	6	7	F04/F05
1-1/4”	32	110	98	62	10	153	85	1	50	42	6	7	F04/F05
1-1/2”	38	120	114	69	14	195	125	14	70	50	7	9	F05/F07
2”	50	140	125	80	14	195	250	14	70	50	7	9	F05/F07
2-1/2”	64	185	153	96	16	250	320	17	102	70	9	11	F07/F10
3”	76	205	165	107	16	305	580	17	102	70	9	11	F07/F10
4”	98	240	195	130	18	350	1020	19	102	70	9	11	F07/F10

V SERIES 3-WAY STAINLESS STEEL BALL VALVE

FEATURES:

- Ideal for the chemical, Industrial & general applications
- 3-Way 316 S/S T or L Port option
- Adjustable packing gland
- Pressure rating – 1000 psi
- Blowout proof stem
- BSP threaded ends
- Tested to API598
- Manual handle with locking device
- Direct ISO 5211 mounting pad

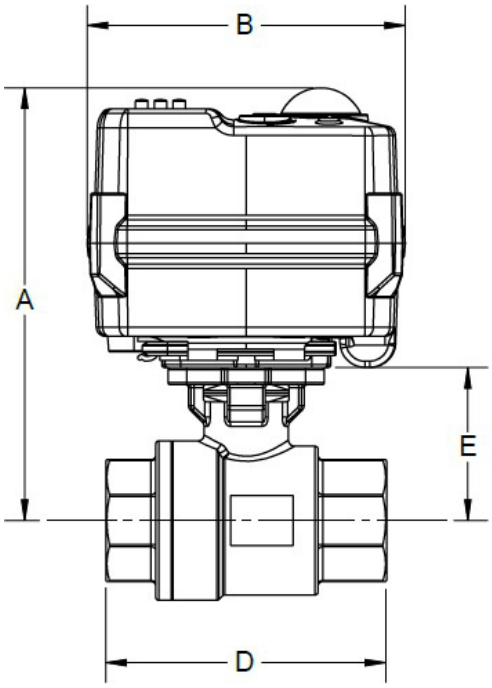


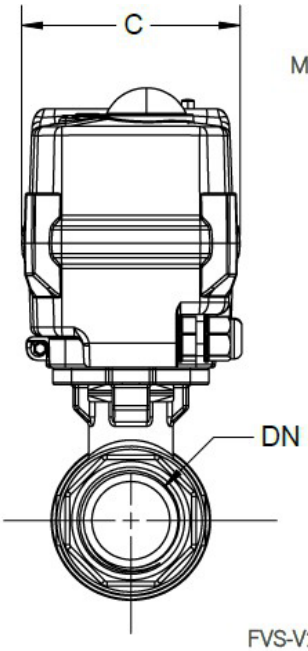


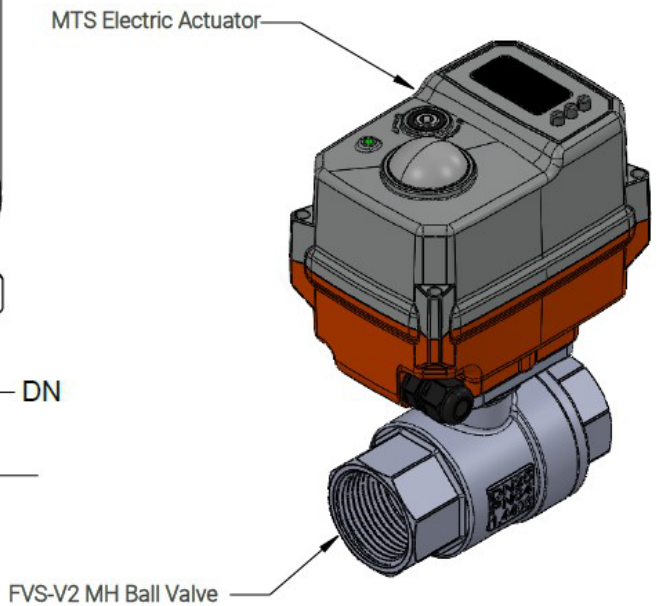
PORT TYPE	0°	90°	180°	270°
L				
T				

No.	Description	Material	No.	Description	Material
1	Cap	CF8M	10	Stem Ring	316
2	Gasket	PTFE	11	Belleville Washer	304
3	Ball Seat	PTFE	12	Nut	304
4	Ball	316	13	Plate Washer	304
5	Body	CF8M	14	Nut Stopper	304
6	Stem	316	15	Handle Lock	430
7	Thrust Washer	PTFE	16	Handle	430
8	O-ring	Viton	17	Handle Sleeve	Plastic
9	Packing	PTFE	18	Stop Pin	304

SIZE	ød	L	H	h	W	□J	h 1	A	F	Cv (GPM) L	Cv (GPM) T	Cv (GPM) T(90)	ISO5211
1/4"	9.5	75	66	36.8	130	9	8.5	57.5	37.5	7	8	6	F03/F04
3/8"	11	75	66	36.8	130	9	8.5	57.5	37.5	7	8	6	F03/F04
1/2"	12	75	66	36.8	130	9	8.5	57.5	37.5	11	13	8	F03/F04
3/4"	15	100	72	41.2	161	11	11	65.5	42.5	15	19	11	F04/F07
1"	20	85	77	46.5	161	11	12	79	50	30	34	22	F04/F05
1-1/4"	25	122	92	56	203	14	13.5	97	61	47	54	41	F05/F07
1-1/2"	32	131	96	60	203	14	13.5	106.5	65.5	70	84	54	F05/F07
2"	40	158	107	70.5	203	14	13	129	79	133	158	97	F05/F07
2-1/2"	49	178	135	95.5	254	17	18	145	89	-	-	-	F07/F10
3"	60	202	147	106	254	17	17	167	101	-	-	-	F07/F10
4"	75	246	160	119	310	17	20	203	123	-	-	-	F07/F10

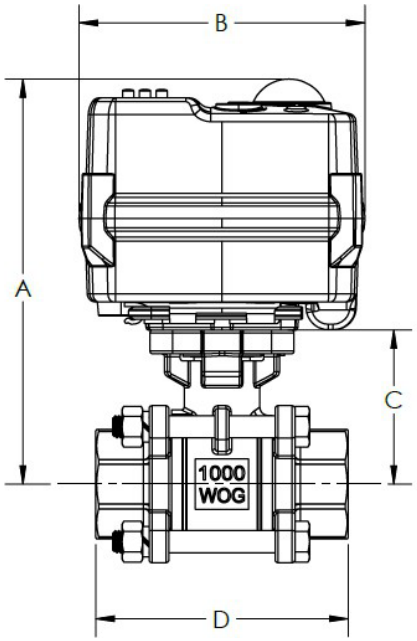


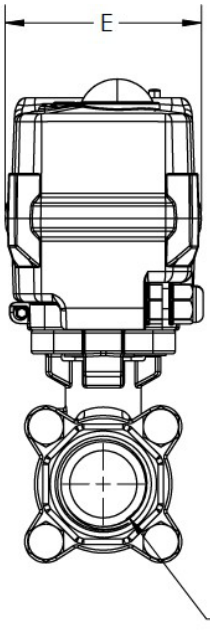


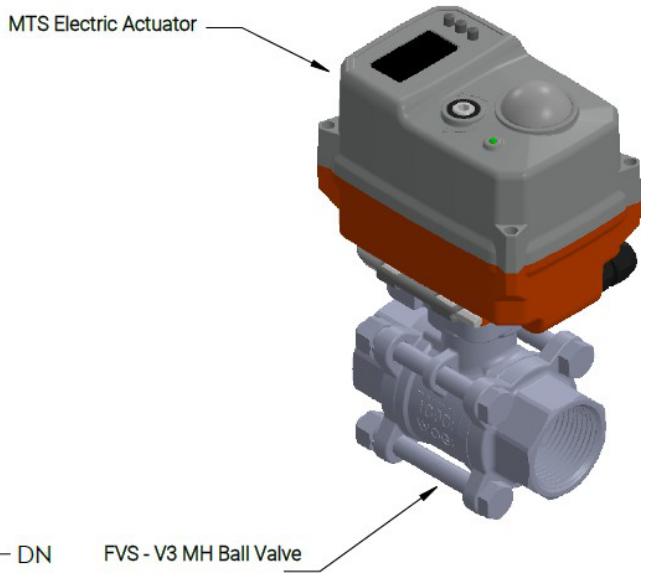


DN	A	B	C	D	E	Torque-Nm	Actuator	Reducer	ISO5211
1/4"	107	90	31	60	66	6	MT-10	9x11	F03/F04
3/8"	107	90	31	60	66	8	MT-10**	9x11	F03/F04
1/2"	116	90	40	75	66	11	MT-20	9x14	F03/F04
3/4"	122	90	46	80	66	14	MT-20	9x14	F03/F04
1"	143	102	55	90	70	18	MT-20	11x14	F04/F05
1-1/4"	150	102	62	110	70	28	MT-50	11x14	F04/F05
1-1/2"	157	102	69	120	70	45	MT-80	14x17	F05/F07
2"	201	132	80	140	111	52	MT-80	14x17	F05/F07
2-1/2"	218	165	96	185	115	67	MT-110	—	F07/F10
3"	229	165	107	205	115	95	MT-200	17x22	F07/F10

Things to consider when sizing our actuator to a ball valve
Remember that a ball valve has a consistent torque requirement throughout open/close.
If your application is considered wet, lubricating, usually you should add 25-30% safety factory.
If your application is dry, such as gas or air, usually you should add 50% safety.
Actuators marked with an Asterisk (**) may require the next size up if the application is dry. Note: MT-10/20 Break torque = 12Nm/25Nm







DN	A	B	C	D	E	Valve Torque–Nm	Actuator	Reducer	ISO5211
1/4”	107	90	31	60	66	8	MT-10**	9x11	F03/F04
3/8”	107	90	31	60	66	8	MT-10**	9x11	F03/F04
1/2”	116	90	40	75	66	8	MT-10**	9x11	F03/F04
3/4”	122	90	46	80	66	10	MT-20	9x11	F03/F04
1”	143	102	55	90	70	16	MT-20**	11x14	F04/F05
1-1/4”	150	102	62	110	70	23	MT-50	11x14	F04/F05
1-1/2”	157	102	69	120	70	33	MT-50	—	F05/F07
2”	201	132	80	140	111	47	MT-80	14x17	F05/F07
2-1/2”	218	165	96	185	115	62	MT-80**	—	F07/F10
3”	229	165	107	205	115	101	MT-200	—	F07/F10
4”	301	232	130	240	160	124	MT-200	17(19) X 22	F07/F10

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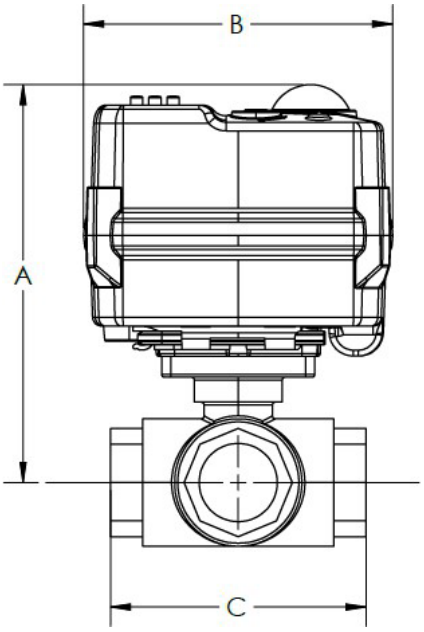

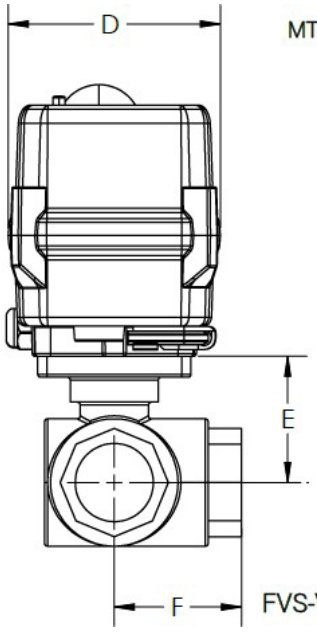

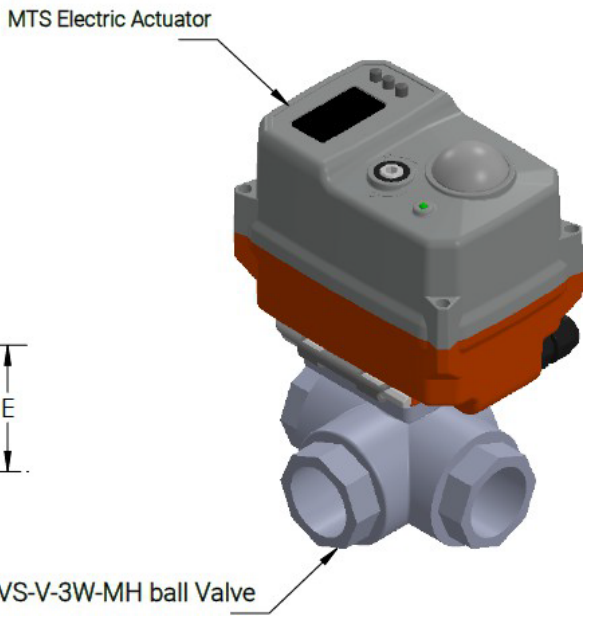

DN	A	B	C	D	E	Torque-Nm	Actuator	Reducer	ISO5211
1/4"	107	90	31	60	66	6	MT-10	9 x 11	F03/F04
3/8"	107	90	31	60	66	6	MT-10	9 x 11	F03/F04
1/2"	116	90	40	75	66	6	MT-10	9 x 11	F03/F04
3/4"	122	90	46	80	66	9	MT-20	9 x 14	F03/F04
1"	143	102	55	90	70	12	MT-20	11 x 14	F04/F05
1-1/4"	150	102	62	110	70	15	MT-20	11 x 14	F04/F05
1-1/2"	157	102	69	120	70	22	MT-50	—	F05/F07
2"	201	132	80	140	111	33	MT-80	14 x 17	F05/F07
2-1/2"	218	165	96	185	115	50	MT-80	—	F07/F10
3"	229	165	107	205	115	80	MT-110	—	F07/F10
4"	301	232	130	240	160	110	MT-200	17 X 22	F07/F10

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