

Ball Sector Motor Valve 4030



DN 25 up to DN 300

- DN 25 up to DN300
- High Kv-values up to 3840
- Excellent control characteristics
- Suitable for abrasive media
- Easily exchangeable seat ring
- Low maintenance
- Actuators can be easily fitted
- Efficient and easy to install
- optional with face to face dimension acc. ANSI ISA 75.08.02



Packing tested according to TA-Luft as defined in DIN EN ISO 15848-1 and VDI 2440

Technical Information Valve

Design	DN 25 - DN 250 flangeless wafertype DN 300 flange connection	
Nominal sizes	DN 25 up to DN 300	
Body material	cast parts turned parts	1.4408 (CF8M) 1.4404 (316L)
Bearing material	high temperature plain bearing (Iglidur Z)	
Connection to the actuator	mounting kit DIN/ISO 5211	
Nominal pressure	DN 25 - DN 50 DN 80 - DN100 DN 150 - DN 300	PN40 (for flanges PN 10 - PN 40), ANSI300, ANSI150 PN25 (for flanges PN 10 - PN 25), ANSI150 PN16 (for flanges PN 10 - PN 16), ANSI150
Fluid Temperature	-40°C up to +220°C according to the sealings	
Ambient temperature	-40°C up to +80°C according to the acuator special version on request	
Characteristic	almost equal percentage	
Rangeability	100:1	

Valve sizes, Kvs-Values, Torques

DN	Kvs	hole mm	rotation angle nominal *	max. press. nominal DIN	max. press. nominal ANSI	req. torque [Nm] (control)	mounting kit DIN/ISO	
							series 1	series 2
25-50%	12,5	15	65°	PN40	ANSI 300	25	F04/SW11	F05/SW14
25	21	19	90°	PN40	ANSI 300	25	F04/SW11	F05/SW14
40-50%	34	25	60°	PN40	ANSI 300	50	F05/SW14	F07/SW17
40	64	32	90°	PN40	ANSI 300	50	F05/SW14	F07/SW17
50	94	40	90°	PN40	ANSI 300	50	F05/SW14	F07/SW17
80	255	64	90°	PN25	ANSI 150	100	F07/SW17	F10/SW22
100	390	80	90°	PN25	ANSI 150	150	F07/SW17	F10/SW22
150	810	120	90°	PN16	ANSI 150	250	F10/SW22	F12/SW27
200	1365	155	90°	PN16	ANSI 150	350	F12/SW27	F14/SW36
250	2220	195	90°	PN16	ANSI 150	600	F12/SW27	F14/SW36
300	3840	250	90°	PN16	ANSI 150	1500	F14/SW36	F16/SW46

* All Valves can be rotated 90° when actuated.
 Though for valves with reduced bore holes a smaller angle of rotation is sufficient.

Valve seat combinations

Seat ring	Ball sector	Leakage	min. temp [°C]*
PTFE	stainless steel polished or hard chrome plated or lapped	5×10^{-7} of max. Kvs	-40 up to +170°C
PEEK	stainless steel polished or hard chrome plated or lapped	5×10^{-7} of max. Kvs	-40 up to +220°C
Stellit	stainless steel, hard chrome plated and lapped	Class IV-S1 acc. EN 1349 (IEC 534-4) 5×10^{-6} of max. Kvs	-40 up to +220°C
PTFE	stainless steel, hard chrome plated and lapped	Class VI acc. EN 1349 (IEC 534-4)	-40 up to +170°C
Stellit	stainless steel, hard chrome plated and lapped, seat holding ring hard chrome plated	5×10^{-6} of max. Kvs	-40 up to +220°C

* Please note the restrictions of the o-ring material!

Shaft seals (o-ring)

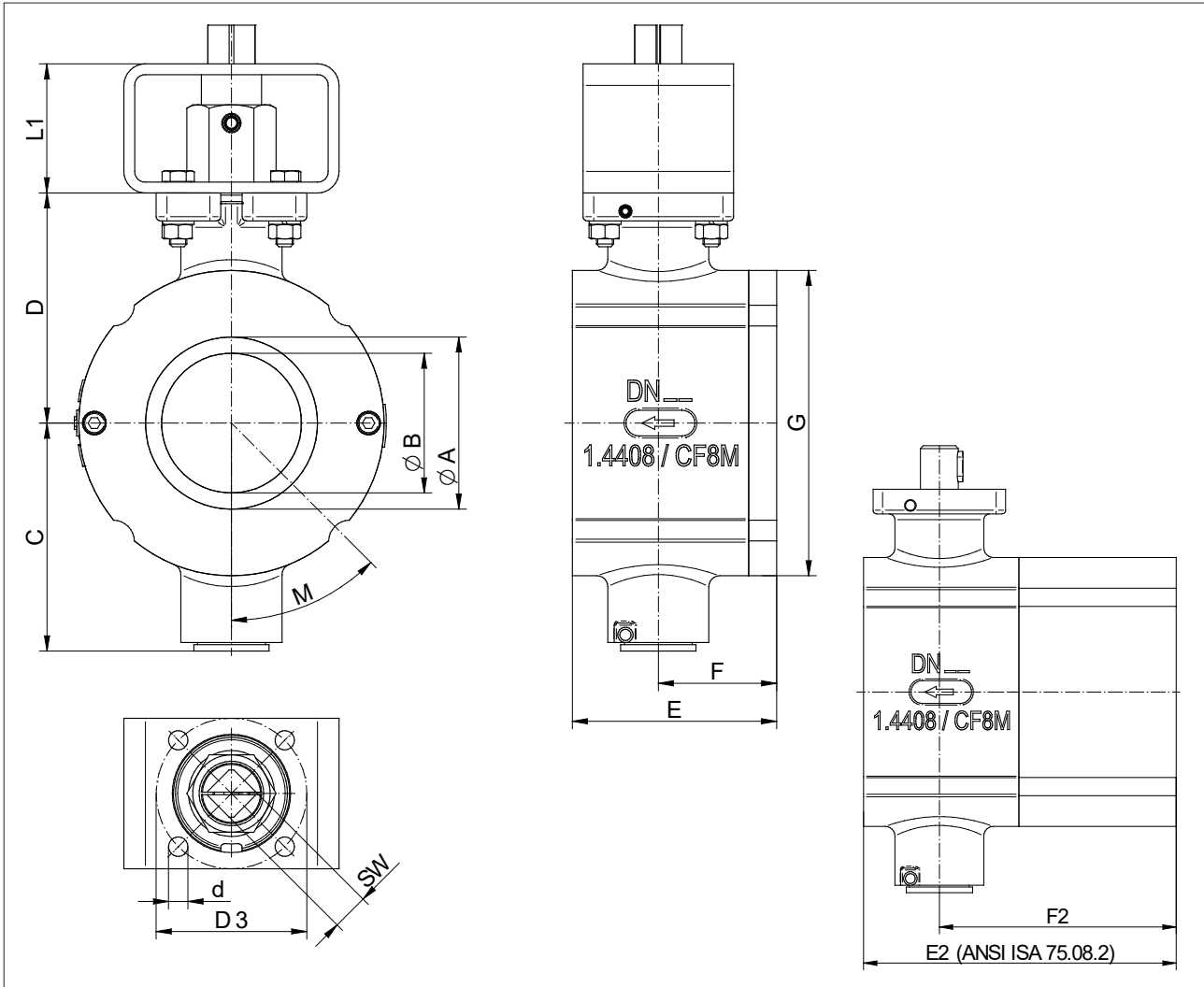
	min. temp [°C]	max. temp [°C]	comment
Viton (Standard)	-15	200	
EPDM	-40	140	suitable for steam
NBR (P700)	-30	100	
FFKM (Perlast/Kalrez)	-15	220	suitable for steam

special material on request

Working pressure max.

Nominal size	maximum differential pressure (delta p)									
	seat ring PTFE			seat ring PEEK				seat ring Stellit		
DN	up to 80°C bar	120°C bar	170°C bar	up to 80°C bar	120°C bar	170°C bar	220°C bar	up to 80°C bar	170°C bar	220°C bar
25-50	25	16	6	40	40	25	16	40	40	25
80-100	16	12	5	25	25	16	10	25	25	16
150-300	16	12	4	16	16	12	8	16	16	12

Dimensions without actuator (with mounting kit ISO 5211)



DN	A	B	C	D	E	F	G	L1	d	D3	SW	DIN/ISO 5211
25	25	20	73	74	50	25,5	73	60	6,6	50	14	F 05
40	41	32	79	80	58	30,5	94	60	6,6	50	14	F 05
50	53	40	82	83	71	37,5	112	60	6,6	50	14	F 05
80	80	65	106	107	95	54,5	142	60	9	70	17	F 07
100	100	80	117	118	112	64,5	174	60	9	70	17	F 07
150	150	120	155	156	170	94	220	80	11	102	22	F 10
200	200	155	184	185	210	119	280	80	13,5	125	27	F 12
250	250	195	228	229	270	143	329	80	13,5	125	27	F 12

DN	E2	F2	ANSI ISA 75.08.2
25	102	78	
40	114	87	
50	124	91	
80	165	125	
100	194	144	
150	229	154	
200	242	152	
250	298	173	

Dimensions of the valves incl. actuators on request.

Dimension in mm

Text and pictures are not binding. We reserve the right, to alter the equipment.