Data sheet Quadax®- double flange butterfly valve

REV01_0318

01



body details

butterfly valve:	bare shaft
pressure range:	PN 0-160 bar
orifice:	DN 50-1000 mm
connection:	flange
body materials:	carbon steel, stainless steel, special material (duplex, inconell, bronze)
valve seat materials:	inconell, others on request
seal materials:	graphite / stainless steel, inconell, stainless steel, PTFE

⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

details needed

- size
- pipe connection
- operating pressure
- flow rate
- Δp
- closing time
- media
- process temperature
- outside temperature

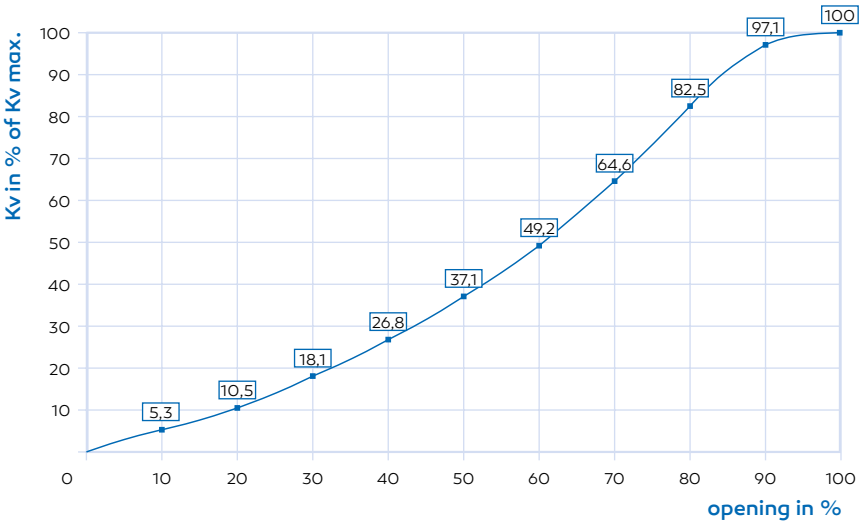
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

general specifications

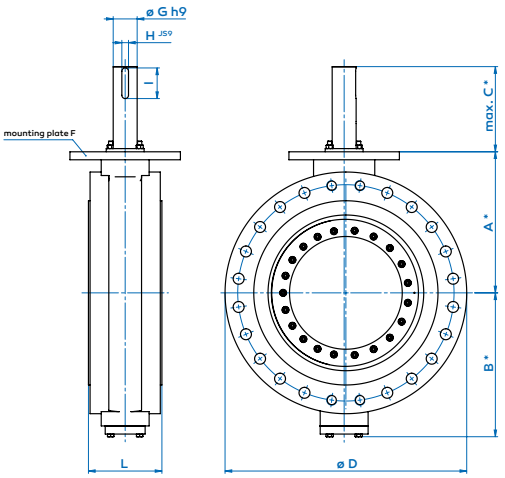
ports	flange	PN 10 / 16 / 25 / 40 / 63 / 100 / 160
		ANSI 150 / 300 / 600 / 900
function	NC / NO / DA	depending upon actuator
pressure range	body pressure	0 to 160 bar
	Δp standard shaft	52 bar in both directions
	Δp optional shaft	100 bar in both directions
Kv value	m³/h	see table
leakage rate		1 DIN 3230
		A DIN EN 12266
		BS 6364
		Fire safe
flow direction	A → B	as marked
switching time	s	DN/100
process- and outside temperature	standard	-10 °C to +450 °C
	with special materials	-270 °C to +800 °C
limit switches		option
approvals		PED / Fire safe / BAM / TA Luft / ATEX in further
weight	kg	see table
additional equipment		upon request

Kv-curve



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* dimensions for trim X only

Dimensions

size			50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900	1000
	(inch)		2	2½	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36	40
pipe cl to mounting plate		A	105	128	128	162	190	203	240	279	305	325	385	405	440	530	630	630	700	830	920
pipe cl to cover screws		B	106	129	129	158	186	204	241	281	307	333	383	403	441	541	643	643	713	836	926
bare shaft length for direct mounting		C	95	95	95	125	135	145	180	180	180	280	289	300	320	320	367	367	367	398	398
bare shaft length for adapter		C	51	51	51	68	68	68	85	85	85	173	170	170	170	170	210	-	-	-	-
flange diameter	PN 10	D	165	200	200	230	250	295	352	405	455	515	565	615	670	780	895	970	1085	1115	1230
	PN 16	D	165	200	200	230	250	295	352	405	455	515	590	640	725	845	910	970	1085	1125	1255
	PN 25	D	165	200	200	230	270	295	352	425	485	550	620	680	725	845	960	1020	1085	1185	1320
	PN 40	D	165	200	200	230	270	295	375	450	515	585	660	680	770	908	-	-	-	-	-
	PN 63	D	180	215	215	250	295	345	415	470	530	600	670	-	-	-	-	-	-	-	-
	PN 100	D	-	230	230	265	315	355	430	505	585	655	-	-	-	-	-	-	-	-	-
	PN 160	D	-	230	230	265	315	355	430	515	585	-	-	-	-	-	-	-	-	-	-
	ANSI 150	D	165	190	190	230	-	280	352	405	485	550	590	640	700	815	927	984	1085	1168	1290
	ANSI 300	D	165	210	210	254	-	320	380	445	515	585	660	710	770	908	1035	1092	1149	1270	1238
	ANSI 600	D	165	210	210	275	-	355	420	508	560	605	685	745	815	940	1073	1130	1194	1315	1320
	ANSI 900	D	-	240	240	292	-	380	470	545	610	640	705	790	860	1040	1170	1230	1315	1460	1510
mounting plate F ISO 5211	(others on request)	F	F07	F07	F07	F10	F12	F14	F16	F16	F16	F25	F30	F30	F35	F35	F40	F40	F40	F48	F48
trim A	20 bar max.	G	-	-	-	-	-	-	-	-	40	45	50	55	55	70	90	90	100	110	120
	290 psi max.	H	-	-	-	-	-	-	-	-	12	14	14	16	16	20	25	25	28	32	32
		I	-	-	-	-	-	-	-	-	45	60	60	80	80	90	115	115	125	140	160
trim X (standard)	52 bar max.	G	14	18	18	20	22	32	32	40	45	55	65	70	75	90	110	110	130	150	160
	754 psi max.	H	5	6	6	6	6	10	10	12	14	16	18	20	20	25	32	32	32	36	40
		I	25	28	28	28	40	40	40	45	60	80	88	90	90	115	140	140	180	180	200
trim B	104 bar max.	G	-	-	-	-	-	-	45	55	65	75	90	95	110	130	150	150	180	190	220
	1500 psi max.	H	-	-	-	-	-	-	14	16	18	20	25	25	32	32	36	36	45	45	50
		I	-	-	-	-	-	-	60	80	88	90	115	125	140	180	180	180	220	250	280
trim C	155 bar max.	G		20	20	28	32	40	50	65	75	90	110	110	130	150	170	170	200	230	250
	2250 psi max.	H		6	6	8	10	12	14	18	20	25	32	32	32	36	40	40	45	50	56
		I		28	28	40	40	45	60	88	90	115	140	140	180	180	200	200	240	280	320
ISO 5752 R13 / DIN 3202 F16	PN 10/16/25/40	L	108	114	114	127	-	140	152	165	178	190	216	222	229	267	292	318	318	330	410
ISO 5752 R13 / DIN 3202 F16	ANSI 150/300	L	108	114	114	127	-	140	152	165	178	190	216	222	229	267	292	318	318	330	410
ISO 5752 R14 / DIN 3202 F4	PN 63/100/160	L	150	180	180	190	200	210	230	250	270	290	310	330	350	390	430	470	470	510	550
ISO 5752 R14 / DIN 3202 F4	ANSI 600/900	L	150	180	180	190	200	210	230	250	270	290	310	330	350	390	430	470	470	510	550
Kv-value (m^3/h) trim A	Δp max. 20 bar		-	-	-	-	-	-	-	-	3837	5478	7944	10735	12921	20651	25473	32661	36123	47565	56131
Kv-value (m^3/h) trim X	Δp max. 52 bar		38	118	118	258	418	654	1445	2451	3720	5120	7321	9986	12118	19253	23081	30015	33343	43215	51398
Kv-value (m^3/h) trim B	Δp max. 104 bar		-	-	-	-	-	-	1254	2123	3180	4459	6282	8738	10245	16458	19826	22286	28632	38954	44444
Kv-value (m^3/h) trim C	Δp max. 155 bar			101	101	208	344	576	1164	1916	2926	3962	5659	7989	9442	15002	18231	21026	26779	34693	40870
cv-value (gal/min) trim A	Δp max. 290 psi		-	-	-	-	-	-	-	-	4462	6370	9237	12483	15024	24013	29620	37978	42003	55308	65269
cv-value (gal/min) trim X	Δp max. 754 psi		44	137	137	300	486	760	1680	2850	4314	5953	8513	11612	14091	22387	26838	31702	38771	50250	59765
cv-value (gal/min) trim B	Δp max. 1500 psi		-	-	-	-	-	-	1458	2469	3698	5185	7305	10160	11913	19137	23053	25914	33293	45295	51679
cv-value (gal/min) trim C	Δp max. 2250 psi		-	117	117	242	400	670	1353	2228	3402	4607	6580	9290	10979	17444	21199	24658	31138	40341	47523
weight (standard)	(ca. kg)		11	18	18	27	38	44	78	111	160	235	334	349	476	736	862	1017	1138	1475	2162

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