



Description

Straight-through **bellows-sealed** stop valve with flanges to EN 1092. The valve is designed for shutting off and throttling neutral gases, vapours and liquids in all sectors of industry.

Material

Type	DN	PN	EN	ASTM*)
GAV 54F	15 – 300	16	GJL-250	A48-40B
GAV 24F	15 – 300	16	GJS-400-18-LT	A536-60-40-18
GAV 25F	15 – 150	25	GJS-400-18-LT	A536-60-40-18
GAV 36F	15 – 40	40	P250GH	A216WCB
GAV 36F	50 – 300	40	GP240GH+N	A216WCB
GAV 46AF	15 – 200	40	1.4408	A351CF8M

*) Observe different physical and chemical properties to DIN material.

Specification

Type	PN	Material	Temperature p / T (barg / °C)						
			20	200	250	300	350	400	450
GAV 54F	16	GJL-250	16.0	12.8	11.2	9.6	–	–	–
GAV 24F	16	GJS-400-18-LT	16.0	14.7	13.9	12.8	11.2	–	–
GAV 25F	25	GJS-400-18-LT	25.0	23.0	21.8	20.0	17.5	–	–
GAV 36F DN 250/300	40	GP240GH+N	40.0	22.0	21.0	19.0	18.0	17.0	13.0
GAV 36F	40	P250GH/GP240GH+N	40.0	33.3	30.4	27.6	25.7	23.8	13.1
GAV 46AF	40	1.4408	40.0	33.7	31.8	29.7	28.5	27.4	–

*) Observe different physical and chemical properties to DIN material.

Dimensions [mm]

PN 16–40 flanged ends	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Overall length	L ₁	130	150	160	180	200	230	290	310	350	400	480	600	730	850
GAV 54F	H ₁	175	178	184	205	210	235	246	282	304	390	408	570	606	660
GAV 24F, GAV 25F	H ₁	211	214	220	238	243	266	290	324	348	460	479	570	606	660
GAV 36F	H ₁	140	165	165	190	200	220	270	305	345	395	430	500	705	785
GAV 46AF	H ₁	191	191	197	200	218	230	250	270	340	360	390	450	–	–

Weights [kg]

PN 16–40 flanged ends	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
GAV 54F		3.1	4	4.7	7.3	7.7	10.2	17	22	32	54	70.5	130	230	328
GAV 24F		3.1	4.1	4.7	8.1	8.5	11	17	21	31	51	68.5	139	239	343
GAV 25F		3.1	4.1	4.7	8.2	8.5	11	17	28.9	400	65	89	–	–	–
GAV 36F		3.8	4.6	5.2	9.4	10.6	13.6	22	33	46	67	98	175	300	430
GAV 46AF		4	4.7	6.3	7.9	10	14	24	28	42	62	102	166	–	–

If the following differential pressures are exceeded in valves with standard plug, a pressure balance plug is required.

Pressure balance plug

	DN	65	80	100	125	150	200	250	300
GAV 54F, GAV 24F	Δp bar	–	–	–	–	–	12	9	6
GAV 25F	Δp bar	–	–	–	–	21	12	9	6
GAV 36F, GAV 46AF	Δp bar	–	–	–	33	21	14	9	6

K_{vs} Values [m³/h] of valves with throttling plug

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
GAV 54F, GAV 24F, GAV 25F	PN 16, 25	4.8	8.3	11.9	19.9	27.1	43	75	117	172.3	171	204	457	714	1028
GAV 36F	PN 40	2.9	4.9	7.8	15	25	39	61	78	105	130	210	350	570	860
GAV 46AF	PN 40	7	9	13	21	27	34	60	85	112	212	305	435	–	–