

THREADED INTERNAL VALVES

APPLICATION

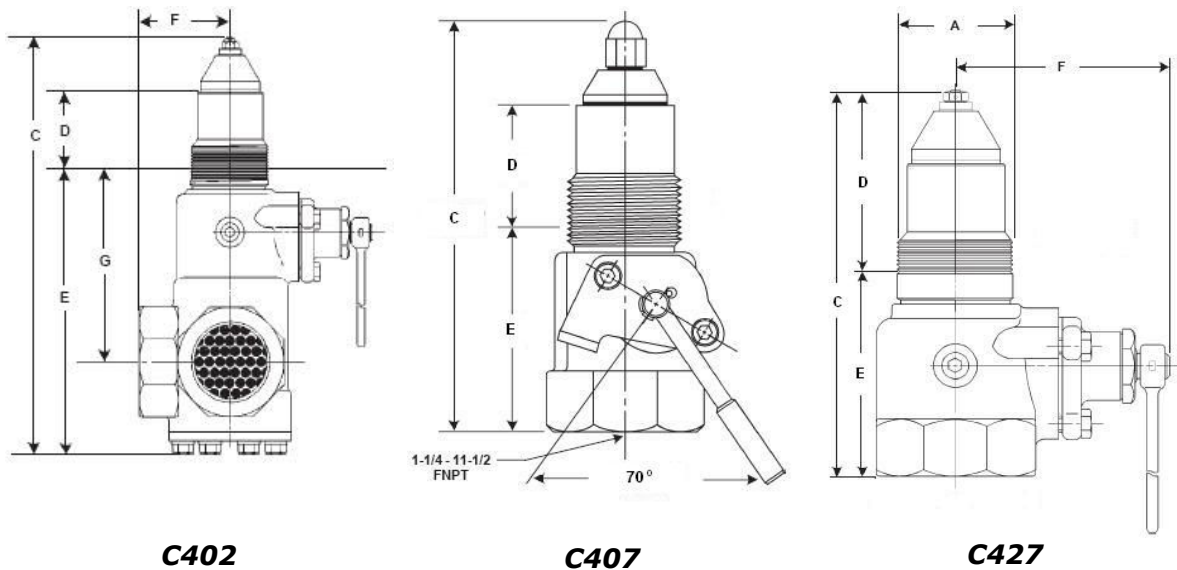
Fisher® threaded internal valves for LPG are manufactured in two versions: threaded and flanged. They are installed directly on the half coupling or flange located at transportation and stationary tanks. Valves can be controlled manually, electrically or by air actuators.

Type C 402 – 3-outlet valve with inside filter protecting the pump. Three outlets enable mounting additional pipelines, without using service lines and pipe elements. Possibility of supplying the product for different purposes form one opening.

Type C 407 – vapour phase valve or used for small capacity pumping systems as liquid phase valve.

Type C 421 – 2-outlet valve (side and bottom). The side outlet permits installing horizontal piping immediately adjacent to the tank without the need for extra pipe fitting. Either connection can be used for truck filling or withdrawal.

Type C 427 – the most compact and economical valve in this series. C 427 has one outlet in the bottom part of the valve. It can be used in transportation and stationary tanks, as well as for in-line installations.


C402
C407
C427
SIZE

Type	A FNPT	B FNPT	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	Cat. No
C402-16	2	2	312	57	214	70	148	-	12.106X
C402-24	3	3	373	65	262	90	144	-	12.111X
C407-10	1,25	1,25	150	47	73	-	-	-	12.100X
C421-16	2	2	227	57	129	70	-	68	12.104X
C421-24	3	3	273	65	162	83	-	83	12.109X
C427-16	2	2	205	61	103	-	-	-	12.102X
C427-24	3	3	229	66	116	-	-	-	12.107X

X – valve closing flow

Parameters of threaded internal valves

Connections	Type number			Closing flow L/min Propane		Vapour Capacity m ³ /h Propane	
	Straight cover	Angular cover	Cover with filter	Valve head without cover	Valve head with cover	1,72 bar	6,90 bar
1 1/4" MNPT x 1 1/4" FNPT	C-407-03	---	---	114	---	158.48	263.19
	C-407-05	---	---	190	132	220.74	373.56
	C-407-08			303	246	316.96	543.36
2" MNPT x 2" FNPT	C427-16-10	C421-16-10	C402-16-10	379	227	622.60	1064.08
	C427-16-15	C421-16-15	C402-16-15	568	341	905.60	1542.35
	C427-16-25	C421-16-25	C402-16-25	946	492	---	---
	C427-24-15	C421-24-15	C402-16-15	568	379	826.36	1406.51
3" MNPT x 3" FNPT	C427-24-20	C421-24-20	C402-16-20	757	473	1256.52	2133.82
	C427-24-25	C421-24-25	C402-16-25	946	624	1488.58	2530.02
	C427-24-40	C421-24-40	C402-16-40	1514	890	2314.94	3933.7
	C427-24-50	C421-24-50	C402-16-50	1893	1230	---	---

Maximum working pressure is 27,5 bar.

Fisher threaded internal valves have built-in excess flow valve, that has fixed nominal closing flow (see chart). Excess flow valves close in emergency cases, i.e. when the installation is damaged. Internal valves are designed in the way that their bodies break off in the certain place called separation point in the event of accident during which a big force is applied to the part of the body of the valve being outside of the tank. Separation of valve's body during accident results in permanent closure of valve.

Fisher threaded internal valves are designed to be installed on transportation tanks, and they meet requirements of the international agreement ADR, that concerns transportation of dangerous goods. Fisher threaded internal valves, that are introduced to UE market by AUREX LPG are Π and CE-marked. They were subjected to conformity mark procedures according with UE directives PED(97/23/EC) and TPED(99/36/EC).