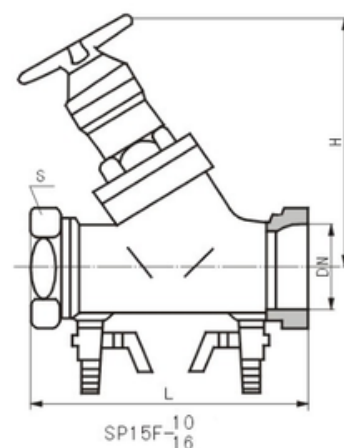
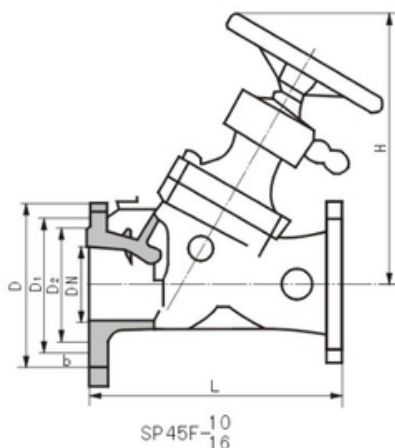




The figure illustrates the flow performance curves of several valve types, including the equal-percentage characteristic valve produced by this factory. With this design, the rate of change in flow is proportional to the valve opening—meaning a larger opening produces a proportionally larger increase in flow, while a smaller opening produces a proportionally smaller change. Since most engineering applications operate at relatively high flow rates, the equal-percentage valve is particularly well-suited to these conditions. A key advantage of this characteristic is that it allows the flow rate to be freely preset—a capability that quick-opening and linear valves do not offer—enabling more precise control and helping the system achieve optimal operating performance.

Applications

This is a balancing valve suitable for a wide range of liquid pipeline systems, offering an ideal, brand-new, energy-saving solution. It features a scaled digital display, allowing it to be visually adjusted to any position and then locked in place. Primarily used in the heating pipeline systems of industrial and civil buildings, it addresses the common problem of hydraulic imbalance found in some pipe-network systems by precisely adjusting both pressure drop and flow rate. This improves the flow conditions within the pipe network, achieving balanced liquid distribution and energy savings. The valve can also be effectively applied in the renovation of dual-pipe network projects, delivering strong energy-saving results.

Main External and Connection Dimensions

DN	ZG	L	S	H	Weight kg Weight
15	1/2"	100	27	128	1
20	3/4"	115	33	128	1.5
25	1"	125	46	130	1.8
32	5/4"	140	55	150	2
40	3/2"	160	55	187	2.5

Model	Sp15-10/16	Sp45F-10/16
Test pressure	2.4MPa (24kgf/cm ²)	
Working pressure	≤1.6MPa (16kgf/cm ²)	
Working temperature	≤120℃	
Suitable media	Water, oil and other liquids	
Performance curve	Equal percentage	
Range of installation and use	Trunks, branches of pipe-net system, indoor water supply trunks, vertical branches and multiple boilers	

SP45F-10/16MAIN EXTERNAL AND CONNECTING DIMENSIONS

DN	D	D1	D2	L	H
32	135	100	78	180	230
40	145	110	85	200	242
50	160	125	100	230	250
65	180	145	120	290	260
80	195	160	135	310	329
100	215	180	155	350	340
125	245	210	185	400	424
150	280	240	210	480	454
200	335	295	265	550	517
250	405	355	320	622	573
300	460	410	375	698	617
350	520	470	435	787	705

