BY-PASS VALVES

B 166 (3/4”, 1”) Automatic dual – purpose, By-pass valve.
Typical application: on all pumps at LPG filling stations, cylinder filling pumps as well as aerosol propellant feed pumps.
A combination by-pass valve and priming valve specifically designed for LPG filling station pumps, small cylinder filling pumps, especially of the regenerative turbine type, such as Corken 150 and Coro-Flo pump series. The patented vapour elimination system keeps liquefied gas pumps primed to increase system reliability and decrease pump and seal wear. The B166 is a smooth operating by-pass with moderate pressure build-up.

T 166 (1-1/4'', 1-1/2'') Pump flow control valve.
Typical application: large-capacity pumps filling variable size tanks and bottles such as those used with delivery trucks or multi-spot cylinder-filling plant.
A high pressure build-up valve for smooth-acting flow controls. Specifically designed for by-pass protection for pumps in the 30 to 100 gpm (6,8 to 22,7 cu.m per hr) range, such as those used on delivery trucks. In contrast to B177, the T166 valve opens gradually as pressure builds up to moderate the flow, by-passing the excess capacity smoothly and silently back to the supply tank. A continuous internal bleed in this valve assists in eliminating vapours.

B 177 (1-1/4'', 1-1/2'', 2'', 2-1/2'') Differential by-pass valve.
Typical application: In liquefied-gas bulk-plant installations for the loading and unloading pumps.
A low-pressure build-up by-pass valve specifically designed for applications requiring protection for positive displacement pumps in the 40 to 350 gpm (9.1 to 79,5 cu.m per hr) range. In can also be used as a differential back-pressure valve to assure adequate pressure on meters, etc. To properly function, this valve requires a pressure sensing line from the storage tank.

ZV 200 (2'') Pump flow control valve.
Typical application: In liquefied-gas bulk-plant installations for the loading and unloading pumps.
The two-inch ZV200 is a low pressure build-up bypass valve designed for applications requiring protection for positive displacement pumps. Specifically designed for protecting pumps with capacities up to 250 gpm (946 L/min). The continuous internal bleed will assist in the operation of systems with "air" or "electric" operated internal valves. Typical applications include bobtail, transport and stationary loading and unloading of LPG, NH_3 and other light liquids

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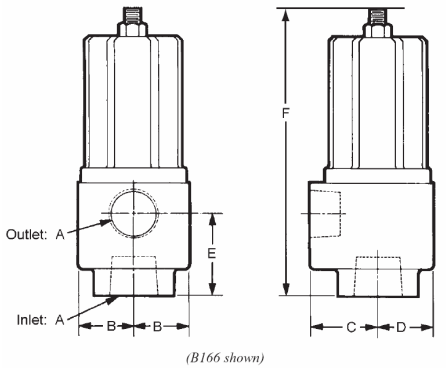
	B 166	T 166	B 177	ZV 200
Inlet	3/4”, 1”	1-1/4”, 1-1/2”	1-1/4”, 1-1/2”, 2”, 2-1/2”	2”
Outlet	3/4”, 1”	1-1/4”, 1-1/2”	1-1/4”, 1-1/2”, 2”, 2-1/2”	2”
Flange	NO	NO	2”, 2-1/2”	NO
Setting range (bar) differential	1,7-15,5	1,7-15,5	0,7-11	2,8-10,3

B 166 / T 166

Valve	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
B 166	3/4" or 1"	34,9	42,9	34,9	53,2	206
T 166	1-1/4" 1-1/2"	33,3	61,9	33,3	33,3	208

Catalogue numbers: 12.910 – 12.915*
*- depends on connection size and setting

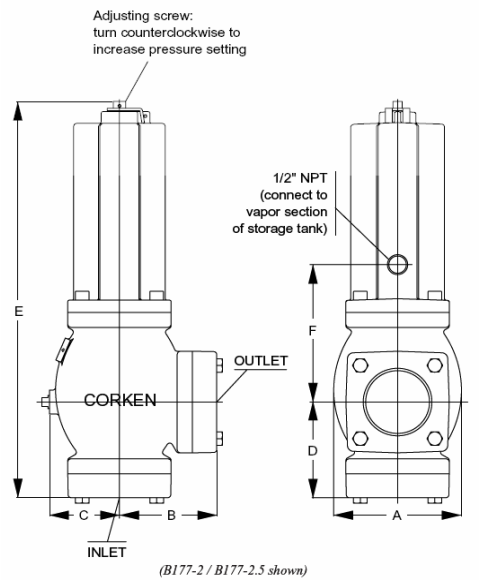


(B166 shown)

B 177

Valve	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
B 177 1-1/4", 1-1/2"	95,3	66,3	68,3	68,3	299,4	95,2
B 177 2", 2-1/2"	133,4	101,6	73	101,6	421,1	146,1

Catalogue numbers: 12.925 – 12.928*
*- depends on connection size and setting



(B177-2 / B177-2.5 shown)

ZV 200

Model	Size	Cat. Nr
ZV200	1 1/4"	12.918 (A,B,C,D)*
	1 1/2"	12.919 (A,B,C,D)*
	2"	12.920 (A,B,C,D)*
	2 1/2"	12.921 (A,B,C,D)*

* - A,B,C,D – depends on setting