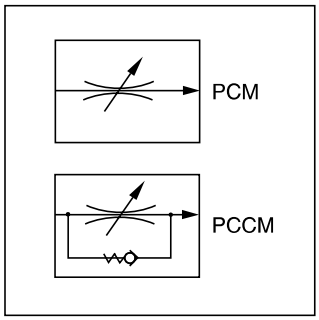
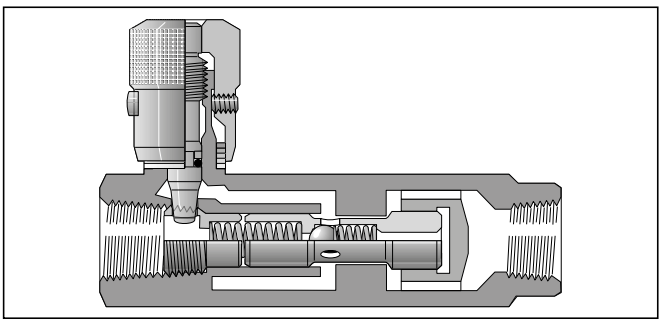
Manatrol 2 way flow control valves for pressure compensated regulation of the flow rate. As a consequence of pressure changes, the set value can vary by ± 5 % within the tolerance range. Viscosity changes have the same effect and must be observed.



Technical data

Size	Max. press. [bar]	Flow control		Check valve		Weight [kg]
		Q* [l/min]	Δp [bar]	Q_{max} [l/min]	Δp [bar]	
400	210	1 - 10	7	20	3	0.82
600	210	2 - 25	7	30	3	1.05
800	210	6 - 60	11	75	8	1.68
1200	210	10 - 100	11	130	8	3.64
1600	210	19 - 190	11	250	10	6.59



Ordering code

		PC		M		S			
Thread type		Press. comp. flow control valve	Design		Thread size	Steel body	Clamping screw	Seal	Design series (not required for ordering)

Code	Thread
omit	NPTF
9	**BSPP**

Code	Design
omit	**Without check valve**
C	With check valve

Code	Size
400	**1/4**
600	**3/8**
800	**1/2**
1200	**3/4**
1600	**1**

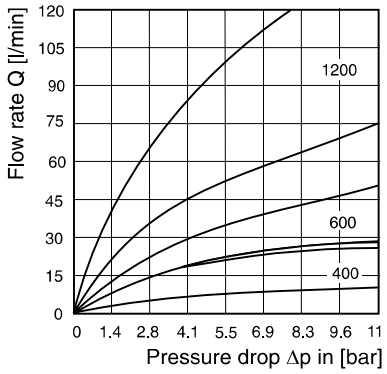
Code	Seal
omit	**NBR**
V	FPM

Code	Clamping screw
omit	**Hexagon socket**
F	With knurled knob
T [1)]	Tamper-proof

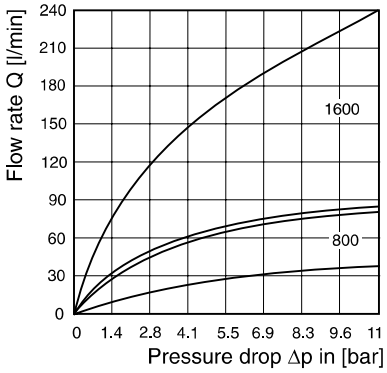
Bold letters =
Short-term availability

* Min. and max. flow rate
[1)] Only for size 400 to 1200

Δp/Q curves

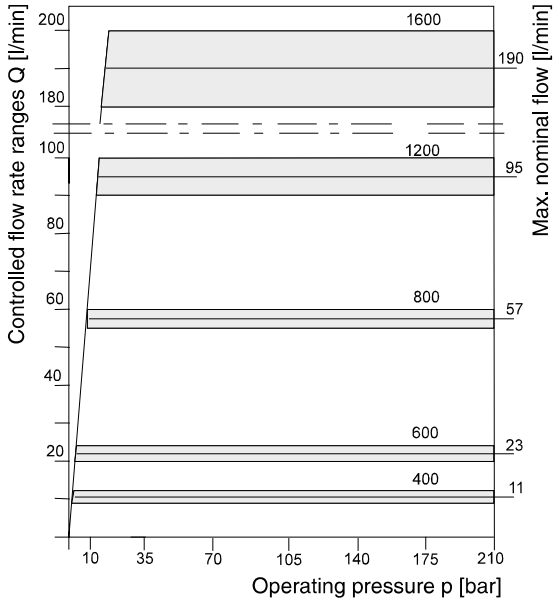


Sizes 400, 600 and 1200: Pressure drop Δp for flow through check valve in range Q_{max} / Q_{min} with each size



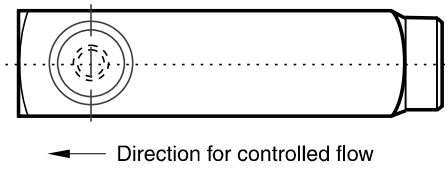
Sizes 800 and 1600: Pressure drop Δp for flow through check valve in range Q_{max} / Q_{min} with each size

Size 400 - 1600 p/Q control characteristic

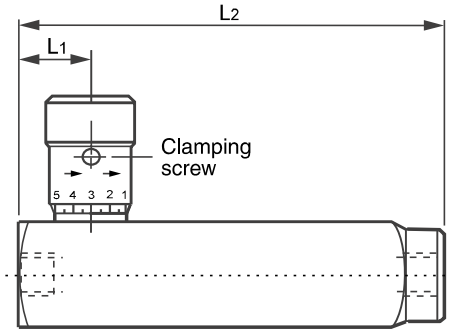


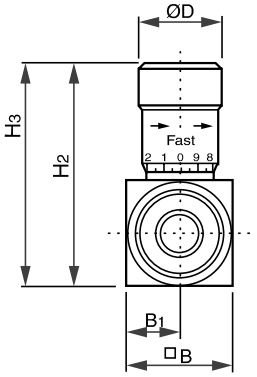
All characteristic curves measured with HLP46 at 50 °C.

Dimensions

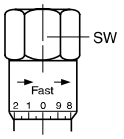


Direction for controlled flow

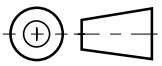




H2 = closed
H3 = open



Hexagon adjusting knob, standard for size 1600



Size	R*	H3	H2	B	L1	B1	L2	ØD	SW
400	¼	69	64	35	16	18	92	21	-
600	⅜	80	74	38	18	19	106	25	-
800	½	103	95	44	22	22	125	30	-
1200	¾	128	116	57	28	29	149	35	-
1600	1	175	158	70	33	35	176	-	47.8

* Pipe thread G or NPTF