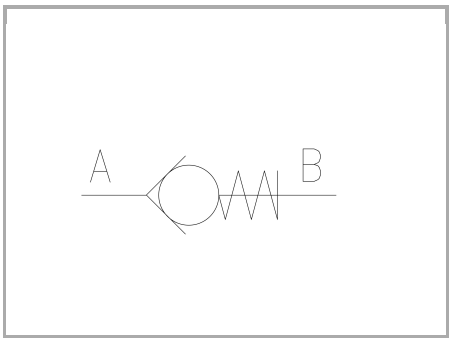
In line carbon steel piston check valves

FT 257/6

In line check valves available from 1/8" to 2" bsp. Max. working pressure 400/320 Bar, oil flow rate up to 850 Lt./min (depending on the size). On request NPT THREADS can be supplied

In line
Direct control
Carbon steel



Technical information

Technical description

They are inserted in branches of the circuit where the free flow in one direction is allowed and the return flow in the opposite direction is not possible. A lasting and hermetic seal is ensured by the conical valve poppet, which is a reliable mechanical solution. The spring in high-resistance material is housed in such a way that it does not close as a pack during the opening phase. The external configuration of the body makes it easy to seize the piece during the assembling. They are available with different cracking pressure (0,5 standard and 2-4-6-8-10 bars).

Materials

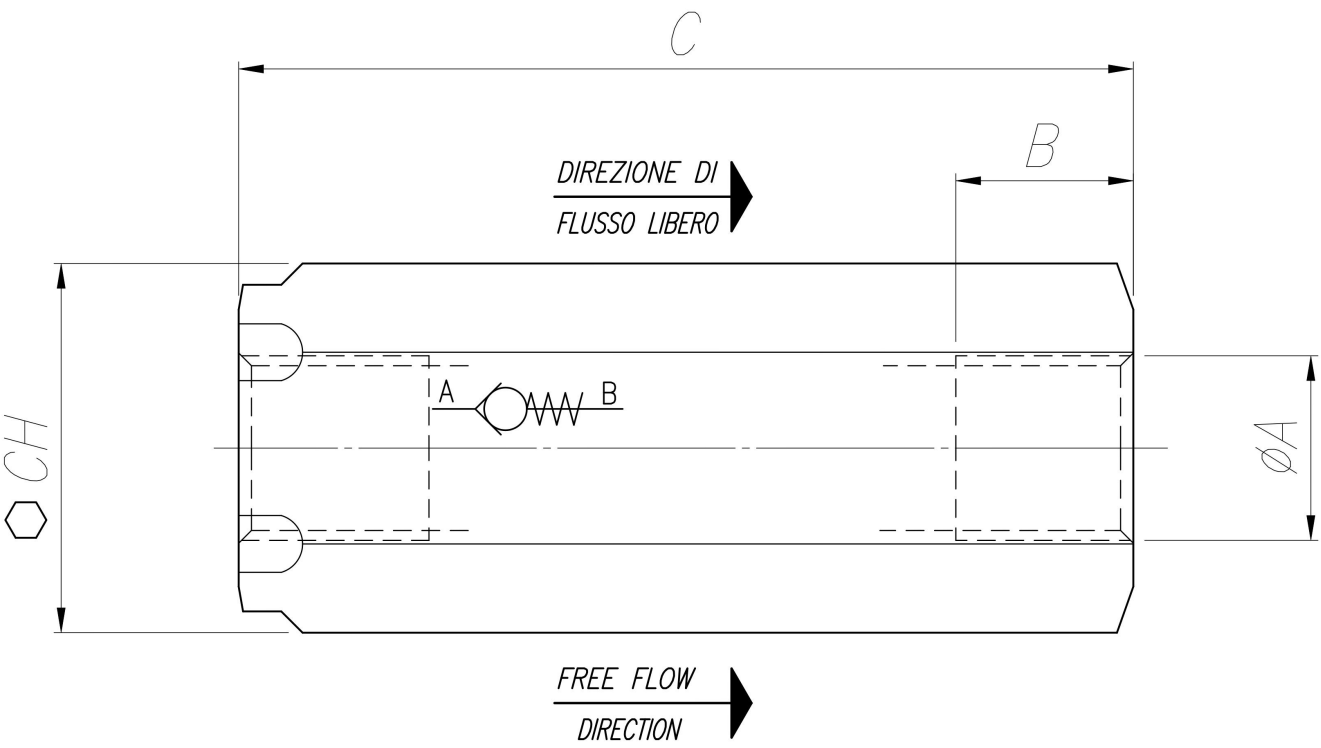
CORPO VALVOLA / BODY VALVE	Acciaio/Steel 11 S Mn Pb 37-UNI EN 10087
VALVOLA DI RITEGNO / CHECK VALVE	Acciaio/Steel 39 Ni Cr Mo 3-UNI EN 10083
MOLLA / SPRING	Acciaio/Steel C 85-UNI EN 10089
FONDELLO FILETTATO / THREADED LOCKING RING	Acciaio/Steel 35 S Mn Pb 10-UNI EN 10087

Technical data

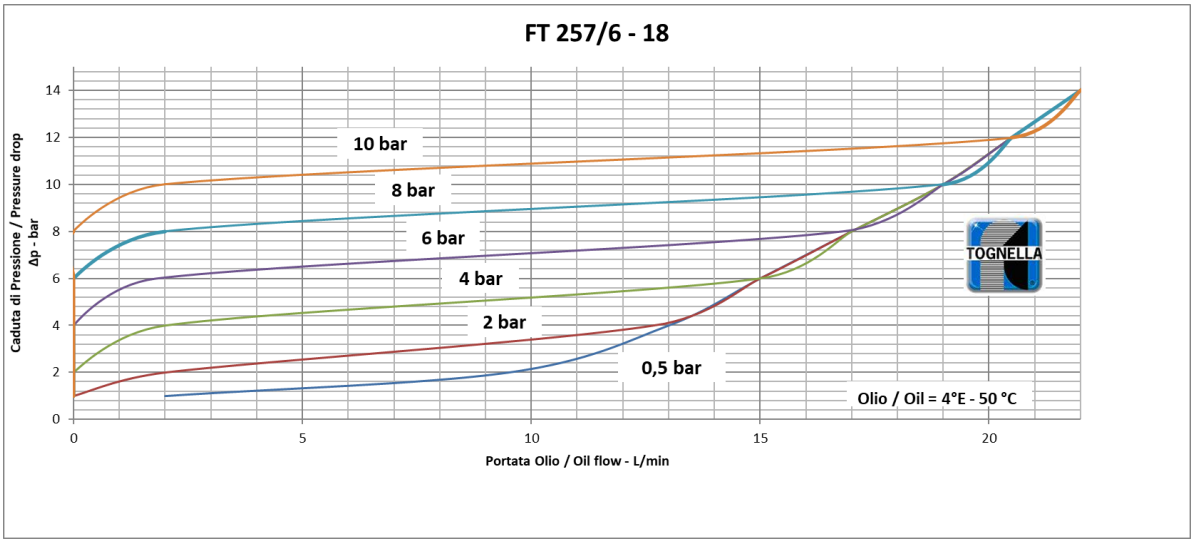
TIPO / TYPE	PRESSIONE ESERCIZIO BAR / WORKING PRESSURE BAR	MIN. PRESSIONE SCOPPIO BAR / MIN. BURSTING PRESSURE BAR	TEMPERATURA ESERCIZIO / WORKING TEMPERATURE	GRADO DI FILTRAZIONE µm / FILTRATION GRADE µm
18	400	1600	-20°C/+100°C	25
14	400	1600	-20°C/+100°C	25
38	400	1600	-20°C/+100°C	25
12	400	1600	-20°C/+100°C	25
34	400	1600	-20°C/+100°C	25
100	320	1300	-20°C/+100°C	25
114	320	1300	-20°C/+100°C	25
112	320	1300	-20°C/+100°C	25
200	320	1300	-20°C/+100°C	25

Dimensional tables and drawings

TIPO / TYPE	A UNI 338	B	C	CH	PESO / WEIGHT KG
18	1/8" G	8,5	46	17	0,075
14	1/4" G	12,5	63	22	0,165
38	3/8" G	12,5	68	27	0,26
12	1/2" G	15,5	80,5	32	0,415
34	3/4" G	17	99,5	36	0,605
100	1" G	20	117	46	1,17
114	1 1/4" G	22	134,5	55	1,85
112	1 1/2" G	24	159	65	3,13
200	2" G	27	198	75	4,9



Flow rate curves



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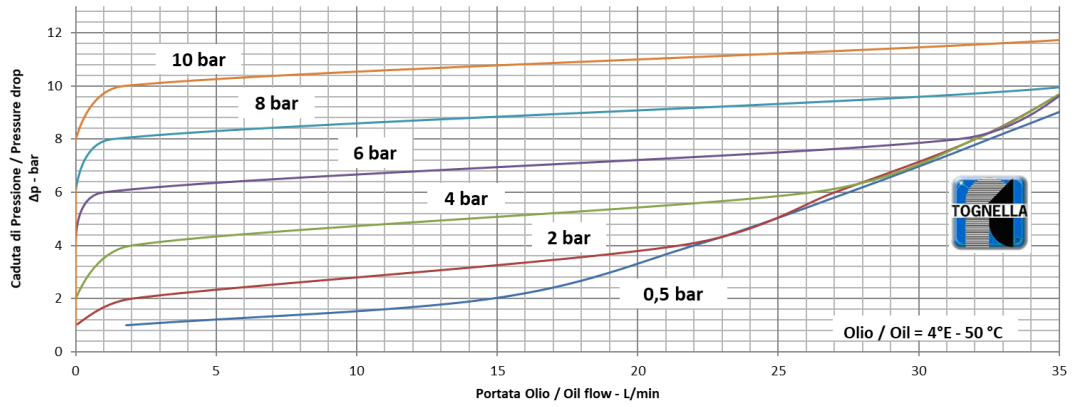

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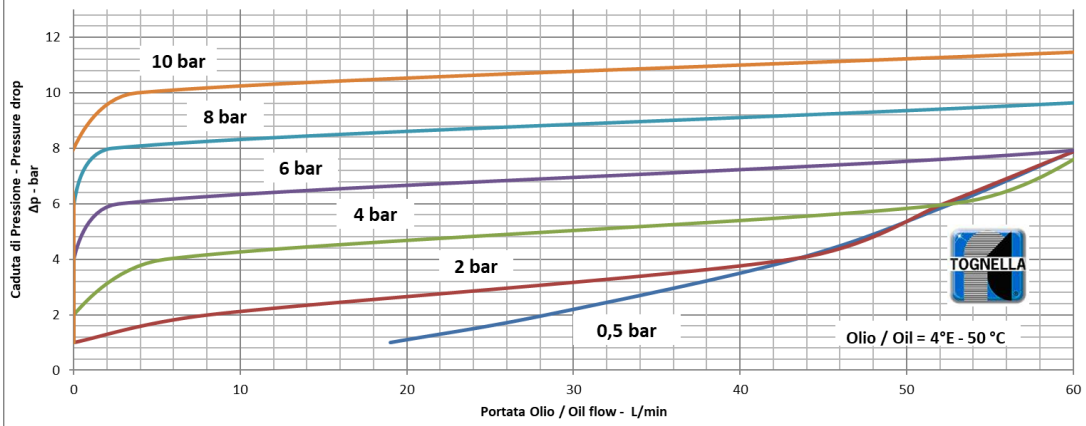

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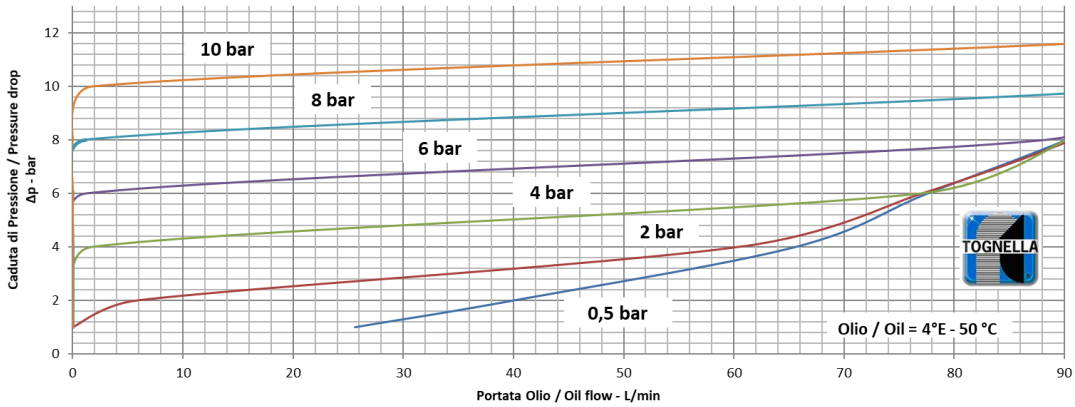

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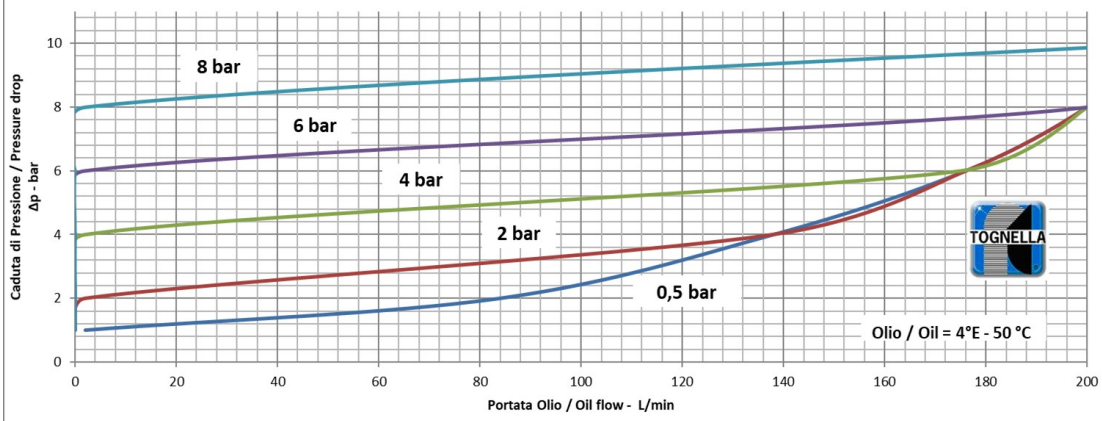

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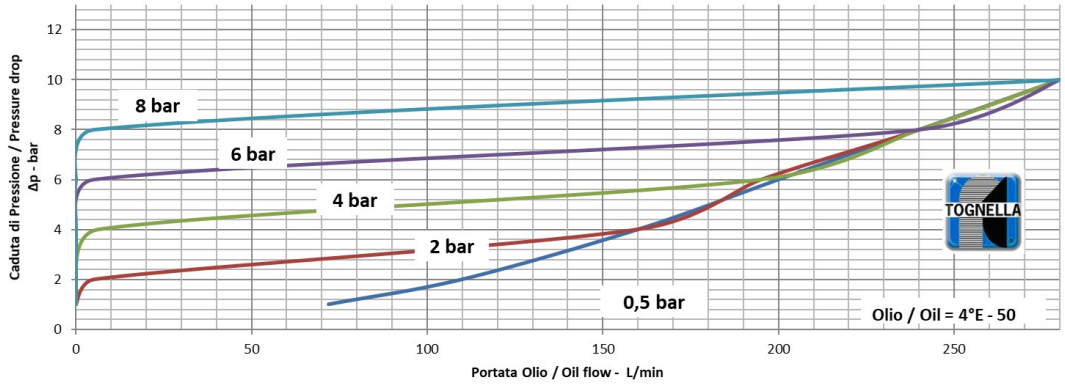

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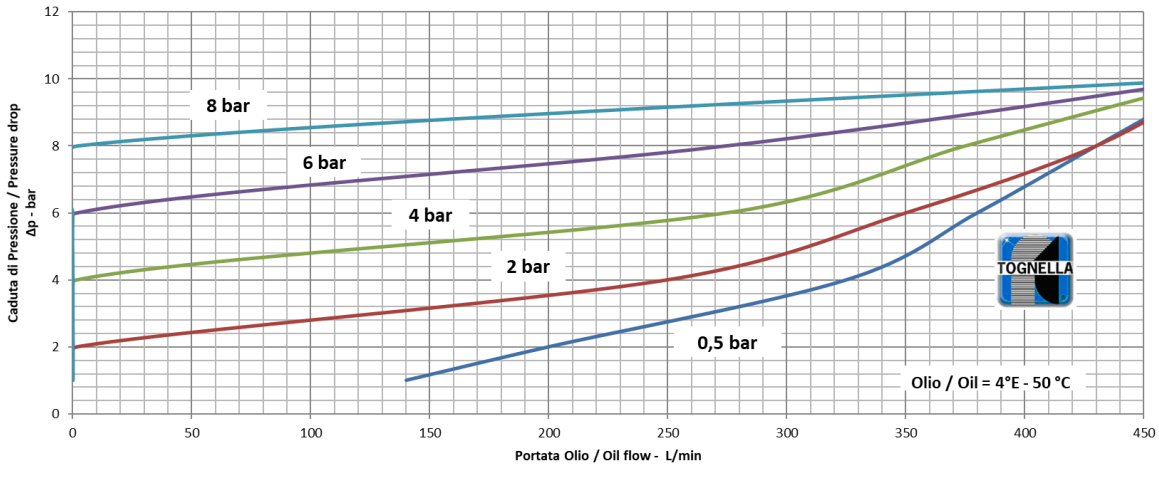
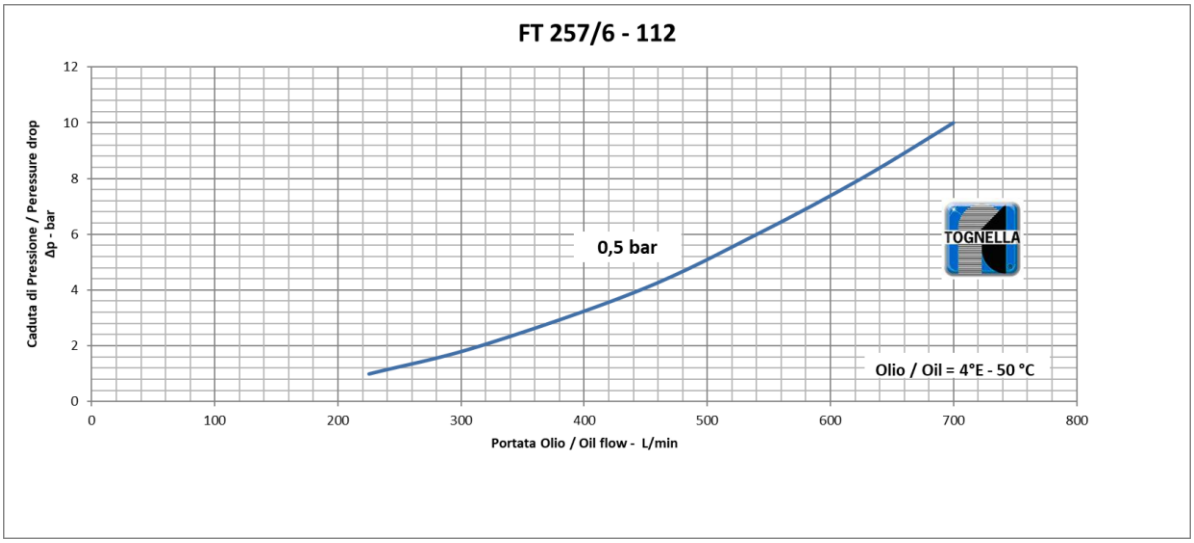
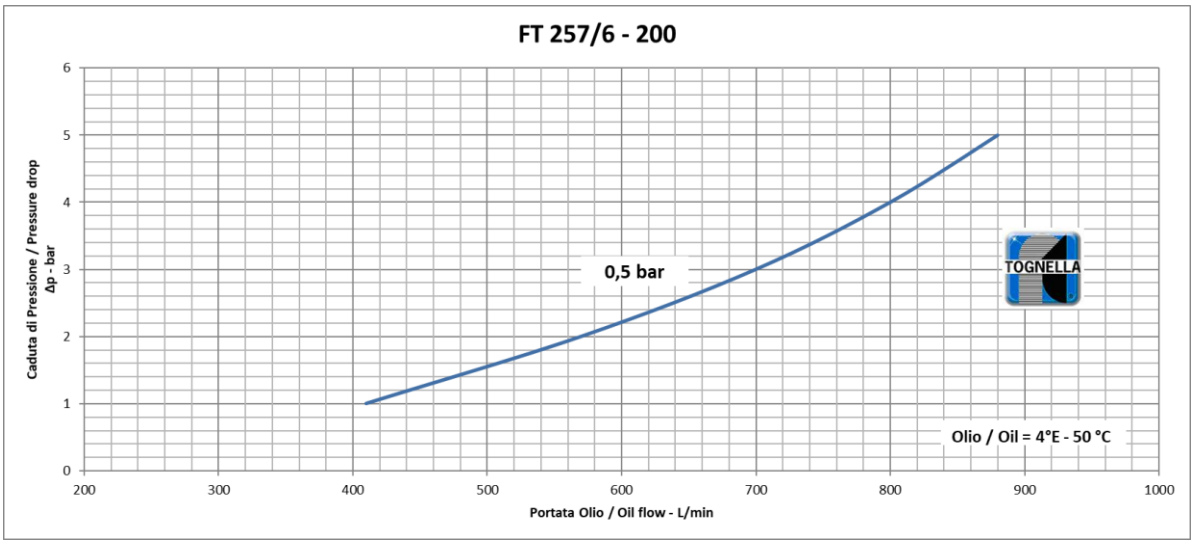



FT 257/6 - 112
Caduta di Pressione / Peressure drop
Δp - bar
0
2
4
6
8
10
12
0
100
200
300
400
500
600
700
800
Portata Olio / Oil flow - L/min
0,5 bar
TOGNELLA
Olio / Oil = 4°E - 50 °C


FT 257/6 - 200
Caduta di Pressione / Pressure drop
Δp - bar
0
1
2
3
4
5
6
200
300
400
500
600
700
800
900
1000
Portata Olio / Oil flow - L/min
0,5 bar
TOGNELLA
Olio / Oil = 4°E - 50 °C