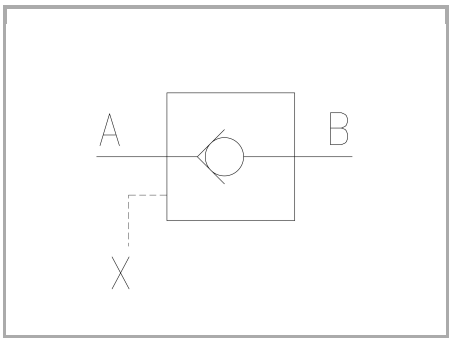
In line carbon steel single-pilot check valves

FT 257/7

In line single-pilot check valves available from 1/4" to 1" bsp. Max. working pressure 400/320 bar, oil flow rate up to 200 Lt./min. (depending on the size)

In line
Pilot control
Carbon steel



Technical information

Technical description

Belonging to the same range of the in line single-acting valves, except that, thanks to a specific signal of pilot operated pressure, they allow the valve to open in the usually flow direction. The high level of pilot ratio, realized in the design phase, enables rapid and complete opening for the whole duration of the desired cycle. The construction material used for the seal pistons, the hardened treatment undergone , as well as the finish-grinding guarantee a perfect seal even in particularly heavy working conditions. Applications : The above mentioned valves are generally used for blocking working circuits under pressure, such as security against falling loads in the event of pipe breaking or against undesired movements of hydraulicaly locked loads.

Materials

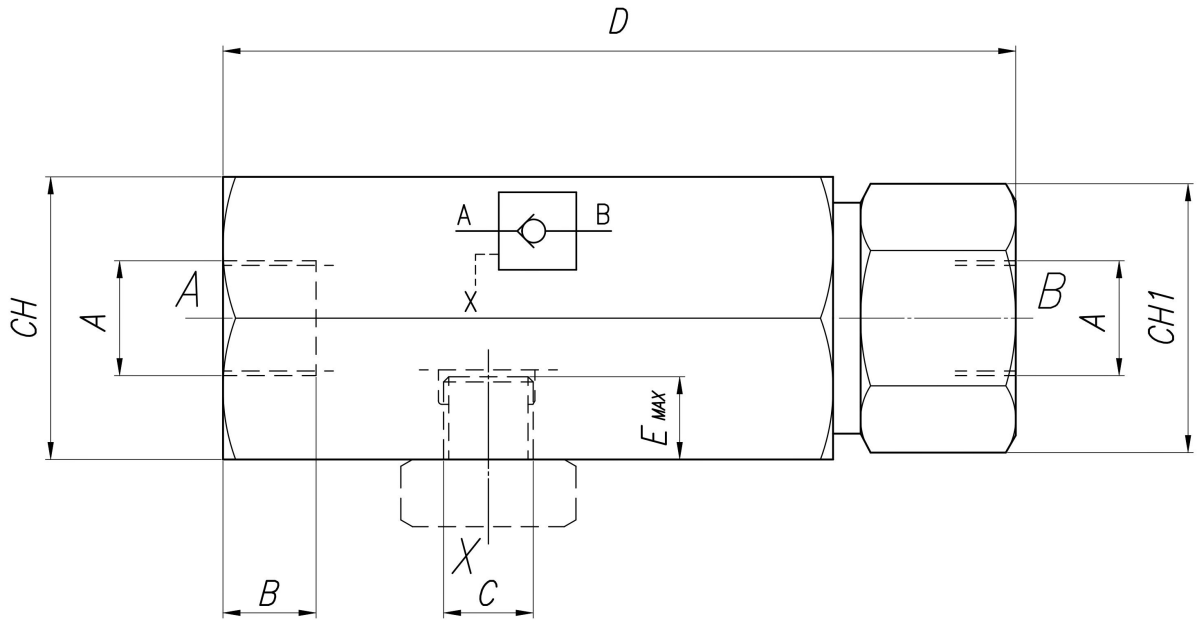
CORPO VALVOLA / BODY VALVE	Acciaio/Steel 11 S Mn Pb 37-UNI EN 10087
VALVOLA DI RITEGNO / CHECK VALVE	Acciaio/Steel 39 Ni Cr Mo 3-UNI EN 10083
MOLLA / SPRING	Acciaio/Steel C 85-UNI EN 10089

Technical data

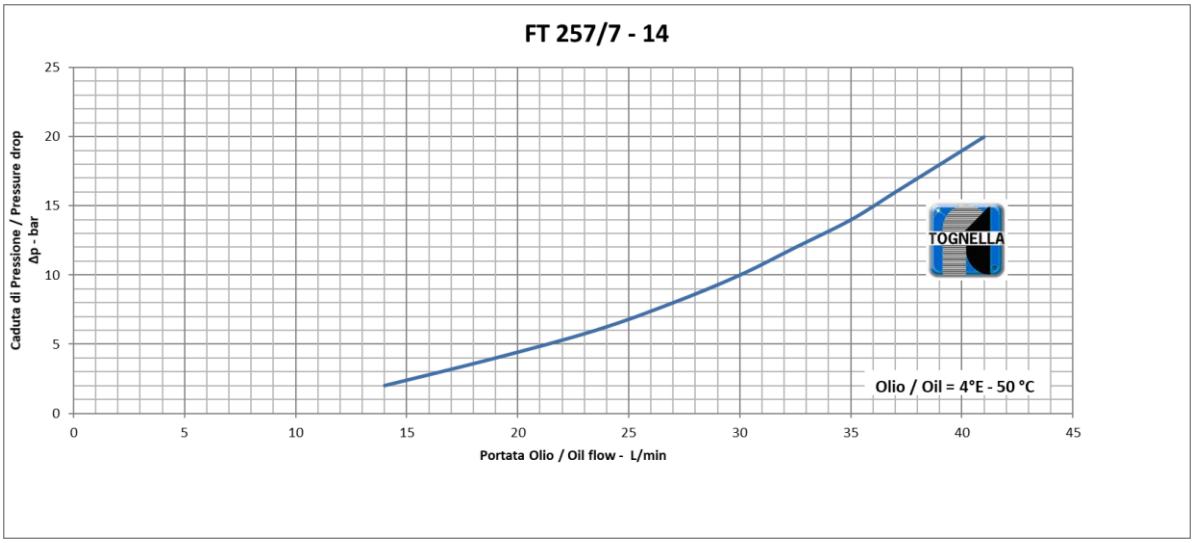
TIPO / TYPE	PRESSIONE ESERCIZIO BAR / WORKING PRESSURE BAR	MIN. PRESSIONE SCOPPIO BAR / MIN. BURSTING PRESSURE BAR	TEMPERATURA ESERCIZIO / WORKING TEMPERATURE	GRADO DI FILTRAZIONE µm / FILTRATION GRADE µm	RAPPORTO DI PILOTAGGIO / PILOT RATIO	MIN. PRESSIONE DI APERTURA BAR / MIN. OPENING PRESSURE BAR
14	400	1600	-20°C/+100°C	25	1-5,3	0,5
38	400	1600	-20°C/+100°C	25	1-5,0	0,5
12	400	1600	-20°C/+100°C	25	1-5,3	0,5
34	400	1600	-20°C/+100°C	25	1-4,4	0,5
100	320	1300	-20°C/+100°C	25	1-4,2	0,5

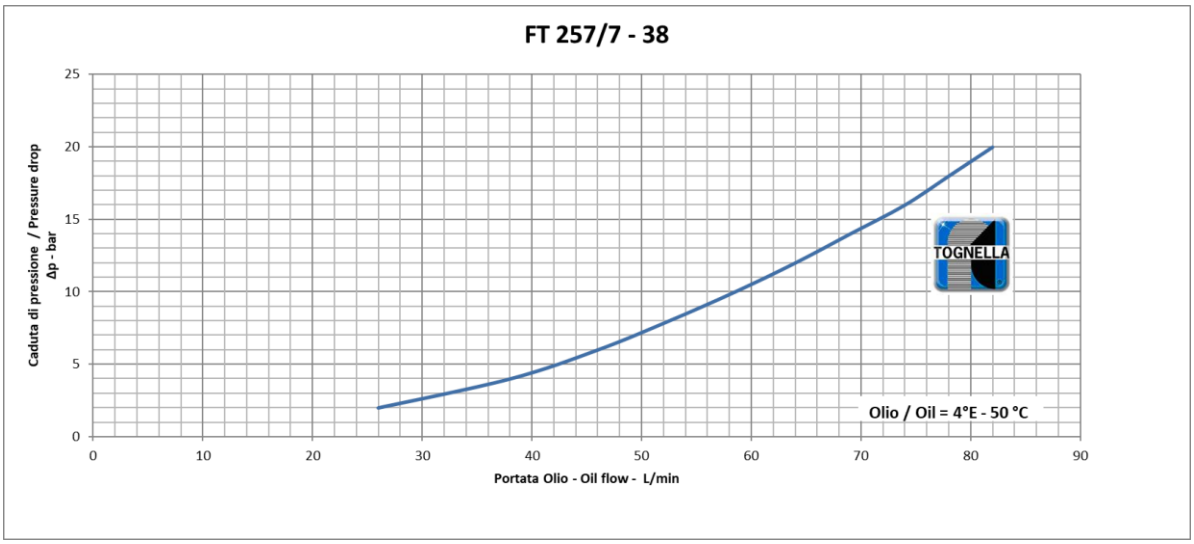
Dimensional tables and drawings

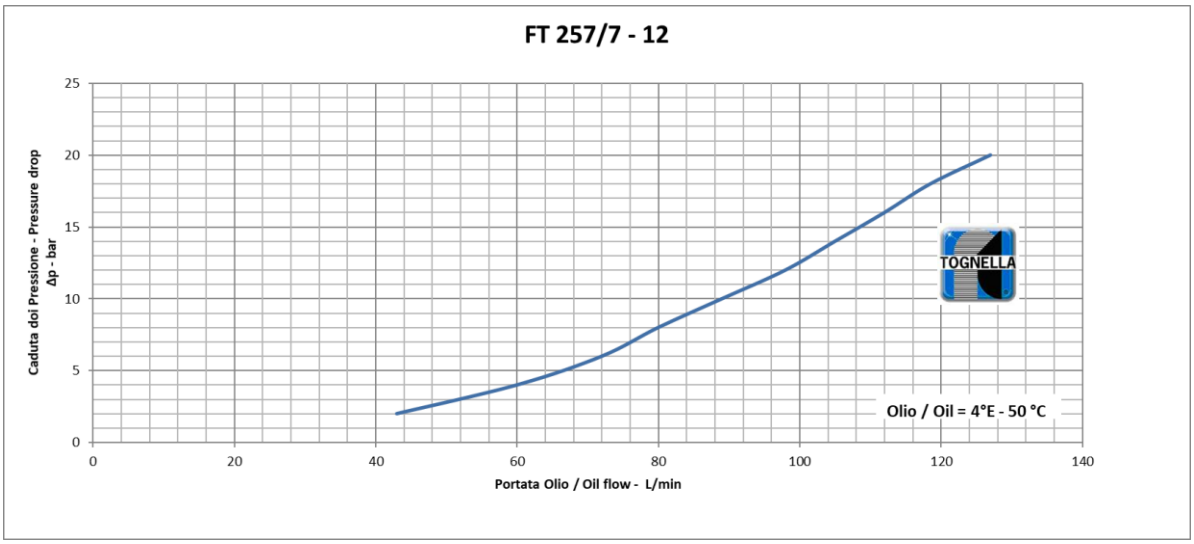
TIPO / TYPE	A UNI 338	B	C UNI 338	D	E	CH	CH1	PESO / WEIGHT KG
14	1/4" G	12,5	1/4" G	100	12	38	28	0,771
38	3/8" G	12,5	1/4" G	115	12	41	34	1,012
12	1/2" G	15,5	1/4" G	139	12	46	41	1,553
34	3/4" G	17	1/4" G	168	12	55	46	2,596
100	1" G	20	1/4" G	197	12	65	55	4,161

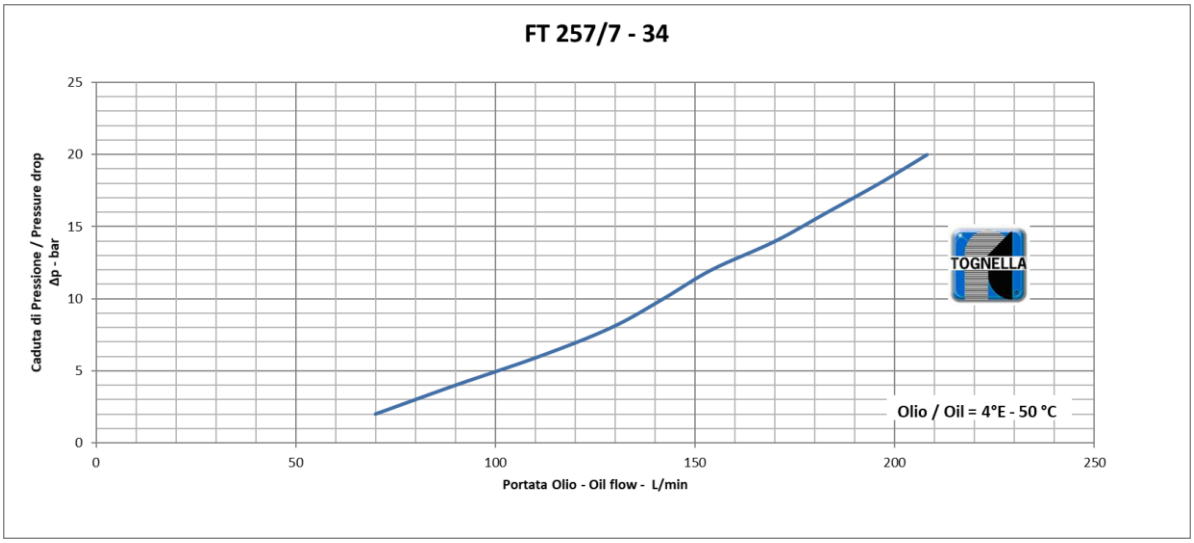


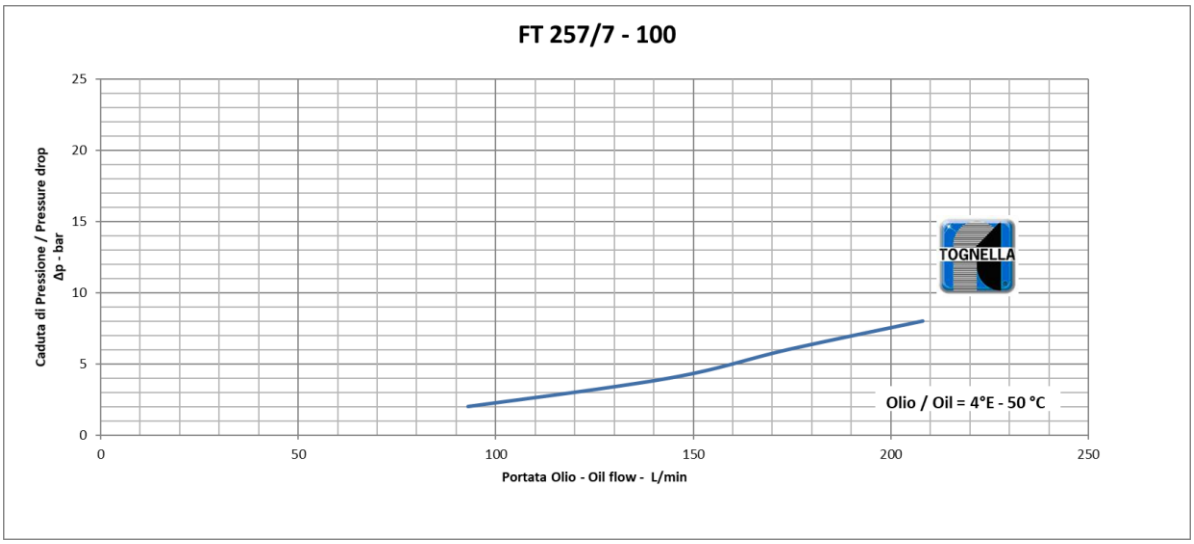
Flow rate curves








FT 257/7 - 34
Caduta di Pressione / Pressure drop
Δp - bar
25
20
15
10
5
0
0
50
100
150
200
250
Portata Olio - Oil flow - L/min
TOGNELLA
Olio / Oil = 4°E - 50 °C


FT 257/7 - 100
Caduta di Pressione / Pressure drop
Δp - bar
25
20
15
10
5
0
0
50
100
150
200
250
Portata Olio - Oil flow - L/min
TOGNELLA
Olio / Oil = 4°E - 50 °C