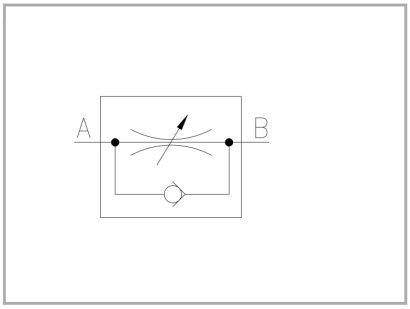
throttle valve
series FC12

Single-acting flow control valves available from 1/4" to 3/4" BSPP size, max. working pressure 210 Bar, adjustable oil flow rate from 1 to 80 Lt/min. (depending on the size)

Single-acting control
In line or panel mounting
Brass OT58 - UNI5705 Nickel Plated
Connections: F - F Female - Female



Technical information

Technical description

The valves guarantee precise flow regulation in one direction and full free flow in opposite direction thanks to the equipment of single-acting unit with ball guide. They are an alternative to where the working pressure does not exceed 210 bar or where ferrous materials cannot be used. They are ideal for use with fluids other than oil (such as: air, gas, and liquids in general).
characteristics: • efficient metallic sealing; • flow linearity at the opening; • simple setting of flow rates;imple setting of flow rates; • secure against accidental needle lift-out; • secure needle positio; • panel mounting provision,
for which special lock nuts (G) are is supplied on request.

Materials

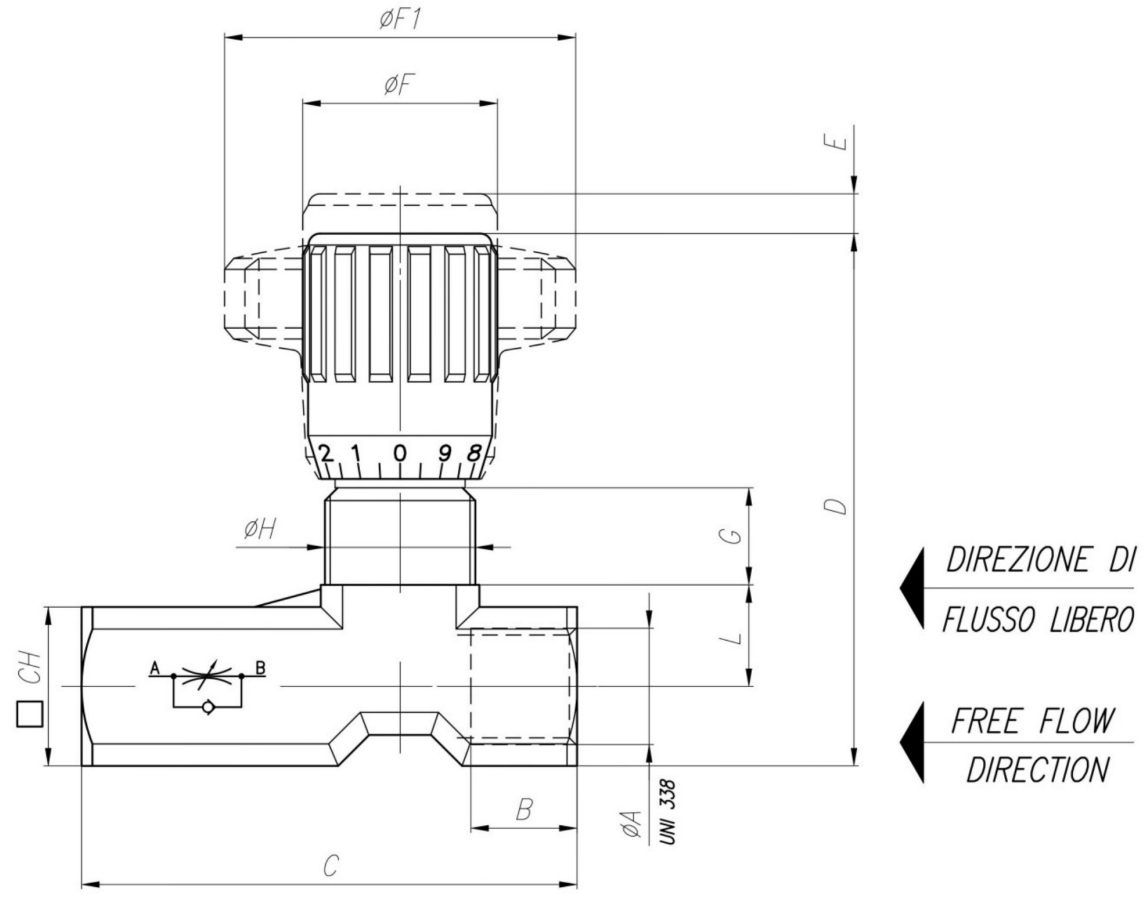
CORPO VALVOLA / VALVE BODY	OT 58-UNI EN 12165
SPILLO DI REGOLAZIONE / ADJUSTING NEEDLE	Acciaio/Steel X 10 Cr Ni S 1809-UNI EN 10088-1
GUARNIZIONI / GASKETS	Di serie NBR - A richiesta FPM/Standard NBR-on demand FPM
ANELLI ANTIESTRUSIONE / ANTIEXTRUSION RINGS	PTFE
MOLLA / SPRING	Acciaio/Steel AISI 302
SFERA / BALL	Acciaio/Steel UNI 100-C6
GUIDA SFERA / BALL GUIDE	NYLON 66 + FIBRA CARBONIO / CARBON FIBRE
MANOPOLA TIPO MA - RA / KNOB TYPE MA - RA	GD AlSi12 - UNI EN AB 46100
MANOPOLA TIPO MP / KNOB TYPE MP	ABS

Technical data

TIPO / TYPE	PRESSIONE ESERCIZIO BAR / WORKING PRESSURE BAR	TEMPERATURA ESERCIZIO / WORKING TEMPERATURE	GRADO DI FILTRAZIONE µm / FILTRATION GRADE µm
14	210	-20°C/+100°C	25
38	210	-20°C/+100°C	25
12	210	-20°C/+100°C	25
34	210	-20°C/+100°C	25

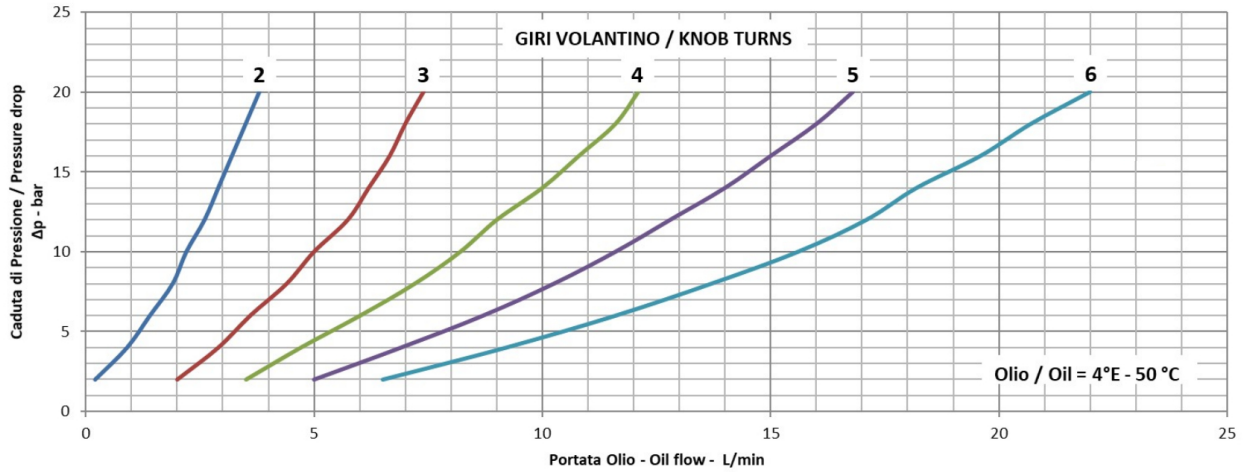
Dimensional tables and drawings

TIPO / TYPE	A UNI 338	B	C	D	E	ØF	ØF1	G	H	L	CH	PESO / WEIGHT KG
14	1/4" G	12	56	57	4,5	22	40	11,5	M17x1	11,5	18	0,138
38	3/8" G	13	64,5	69	7	27	50	12,5	M20x1	15	22	0,259
12	1/2" G	16	87	82	10	33	70	13	M25x1,5	19	27	0,499
34	3/4" G	20	115	100	12	38	80	15	M30x1,5	22	34	0,975

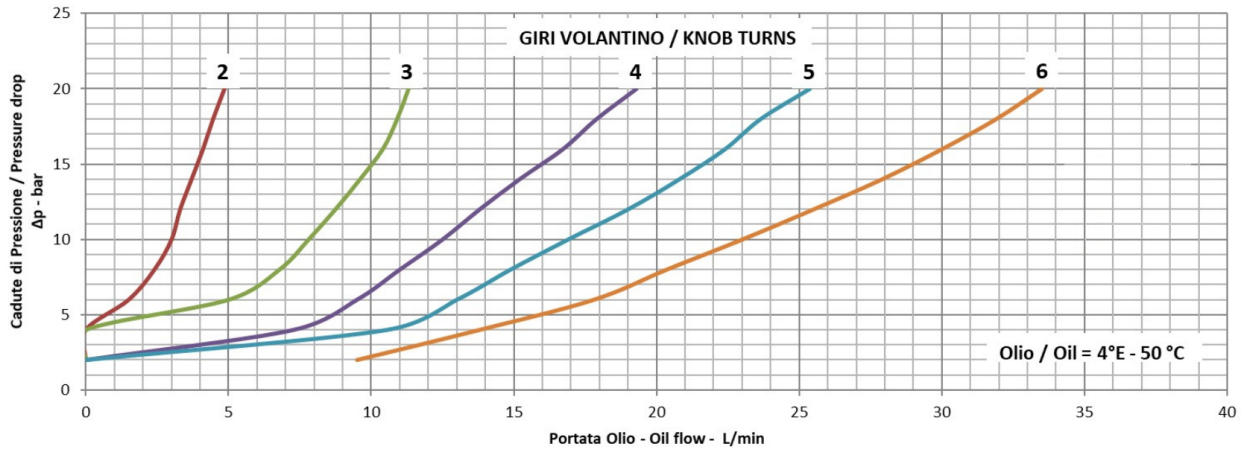


Flow rate curves

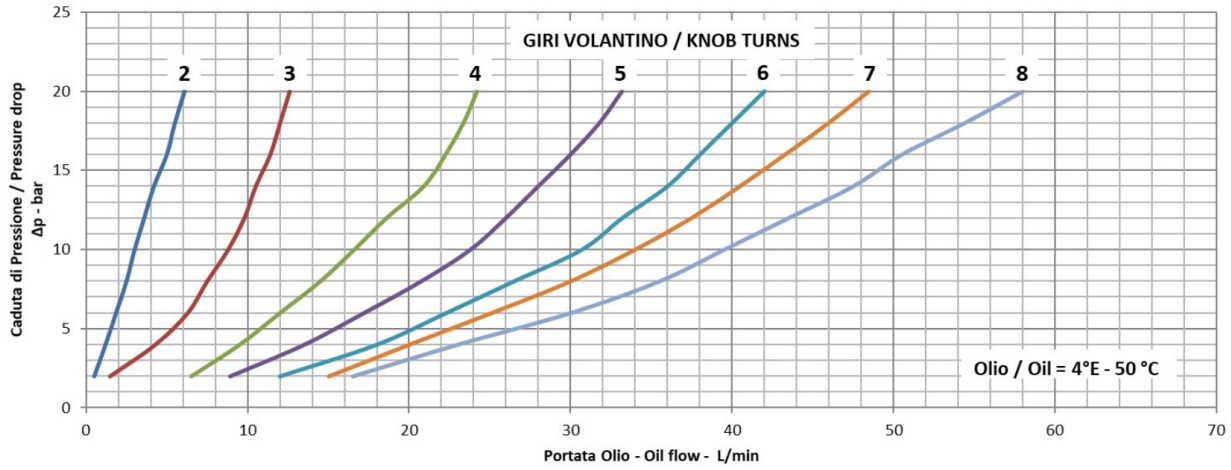
1/4"



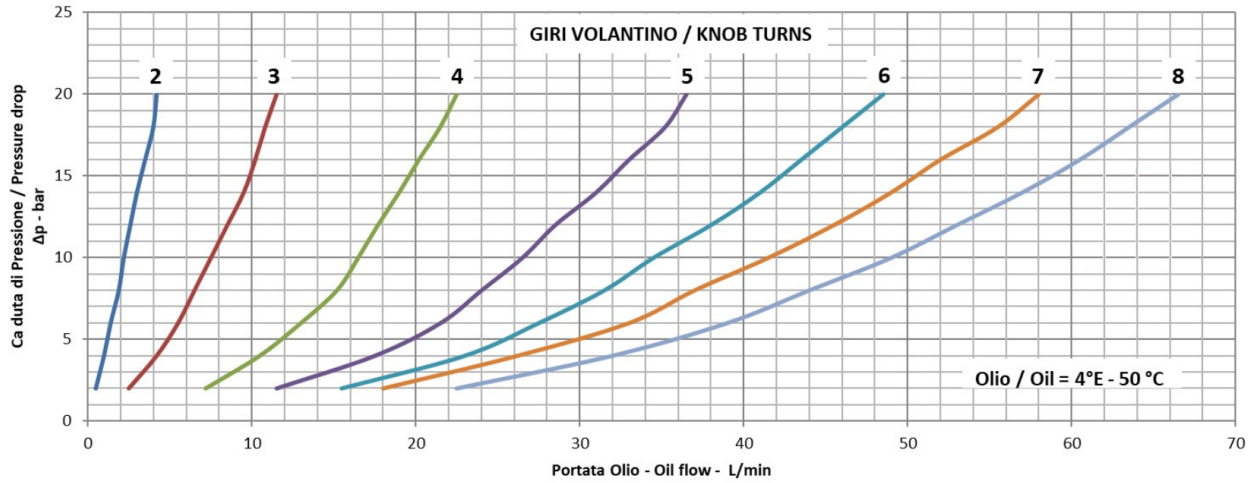
3/8"



1/2"



3/4"



PORTATA FLUSSO LIBERO / FREE FLOW

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice