

# Hydraulic **COMPONENTS**

SEPTEMBER 2024



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**version**  
**CATALOGUE**

**2024**  
SEPTEMBER



Fluid-app is a new player in the hydraulic valves and components market.

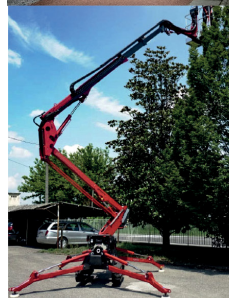
## **New but experienced at the same time!**

Its founders have been working for almost twenty years in the production of hydraulic components made in Italy to always offer the best in terms of quality, reliability and on-time delivery.

## **Years and years of consolidated technical and production experience at the service of the customer, also to study and customise products in synergy.**

In its plant in Reggio Emilia, in the heart of the Italian hydraulics territory, Fluid-app designs and manufactures a wide range of hydraulic valves and components for many applications: from the agricultural to the earth-moving sector, from building to ecology, from transport to industrial vehicles.

**Fluid-App,  
The value of experience!**



# technical INFORMATION

Please read these instructions carefully before installation. All operations must be carried out by specialised and competent personnel.

The user must periodically check the condition and correct functioning of the valves, the corrosion and the condition of the hydraulic installation.

**Always respect the technical prescriptions of the valve.**

## OIL

Use only mineral oil (HL, HLP) according to DIN 51524. The use of other fluids may cause bad working of the valve.

## VISCOSITY

The viscosity of the oil should be in the range of 15 mm<sup>2</sup>/s to 250mm<sup>2</sup>/s.

Recommended viscosity ISO VG 46 (for cartridge valves ISO VG 32).

## CONTAMINATION AND FILTRATION

Excessive fluid contamination is the main cause of bad-working in hydraulic installations.

Max. contamination with filter ISO 4406:1999 - class 19/17/14

The use of filters is necessary to protect the system from bad-working, in order to avoid serious consequences for the hydraulic installation and people.

Fluid-app recommends a filtration of 15 microns for its valves.

## OPERATING TEMPERATURES

Environment temperature: -25°C to +60°C

Oil temperature (with NBR seals): from -25°C to +75°C

## POWER SUPPLY

The solenoid valve coils must be supplied with voltages between +/- 10% of the nominal voltage at a maximum environment temperature of 60°C.

## SEALING

O-rings mounted on the valves are in NBR

The anti-extrusion rings used to protect the o-rings are made of PTFE or NBR.

## TESTING CONDITIONS

All the tests shown in the catalogue were carried out with mineral oil ISO VG 46 at a temperature of 40°C and an absolute filtration degree of 15 microns.

MARKING CODE		
YEAR	LETTER ASSOCIATED WITH THE YEAR	MANUFACT. WEEK
2021	V	Number of the week. The first week of the year starts with the first Monday
2022	X	
2023	Y	
2024	Z	
2025	A	
2026	B	
2027	C	
2028	D	
2029	E	
2030	F	
2031	G	

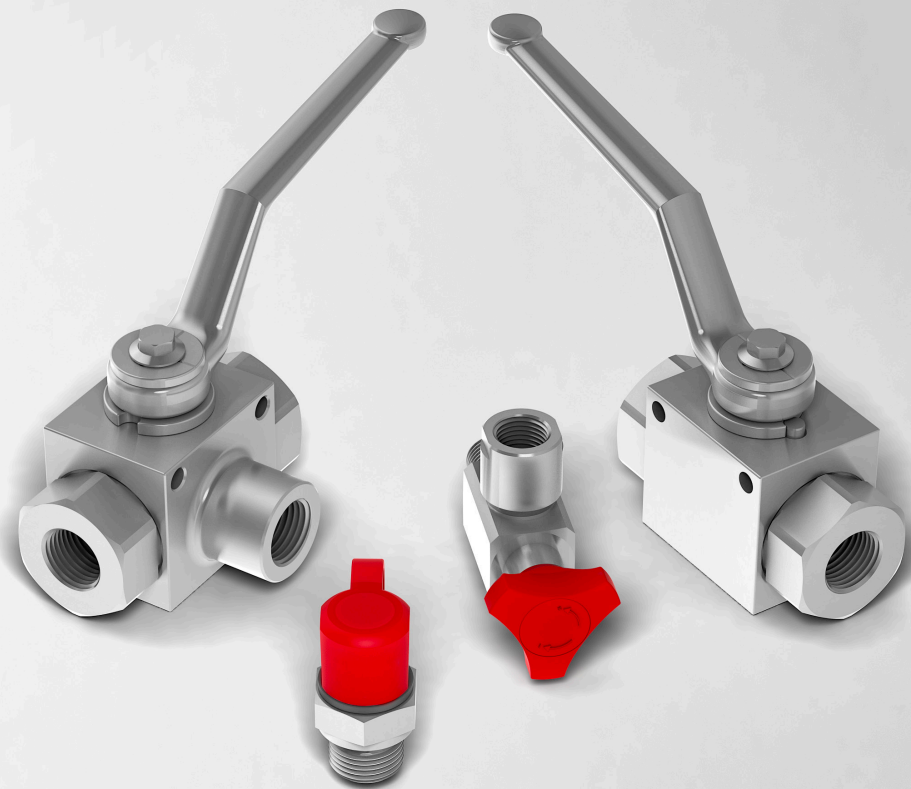
**Ball valves and diverters**

	TYPE	3D	MAX FLOW l/min [USgpm]	MAX PRESSURE bar [PSI]	CAVITY	CATALOGUE PAGE
	GE2		25 to 150 [6,6 to 39,6]	500 to 350 [7250 to 5075]	/	10
	GE3		25 to 150 [6,6 to 39,6]	500 to 350 [7250 to 5075]	/	12

**Shut-off valves and test couplings**

	TYPE	3D	MAX FLOW l/min [USgpm]	MAX PRESSURE bar [PSI]	CAVITY	CATALOGUE PAGE
	RT		/	400 [5800]	/	14
	MPP		/	400 to 630 [5800 to 9140]	/	16

# hydraulic COMPONENTS



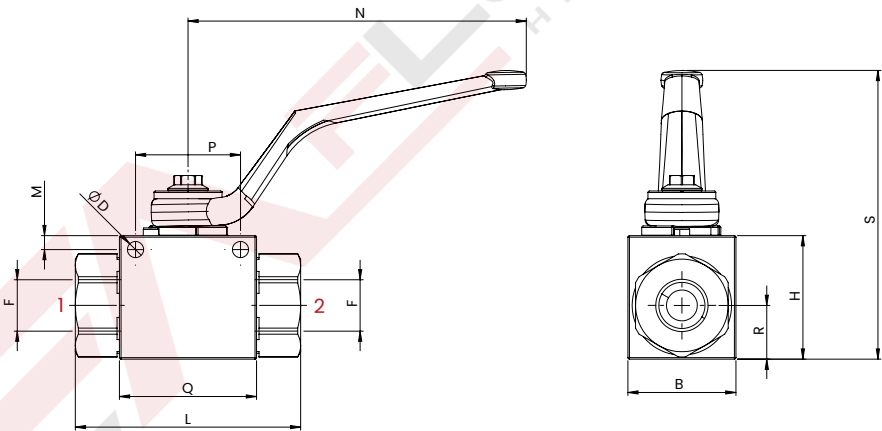
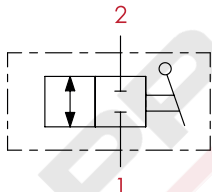
# GE2 BALL VALVES

## 2 WAYS HIGH PRESSURE BALL VALVES

Steel ball valves, are used when you have to open or close an oil flow.



### HYDRAULIC CIRCUIT



mm [Inches]

### TECHNICAL CHARACTERISTICS

mm [Inches]

F	L	B	H	Ø D	M	N	P	Q	R	S
1/4 BSPP	69 [2,72]	26 [1,02]	33 [1,3]	5,1 [0,2]	4 [0,16]	110 [4,33]	34 [1,34]	40 [1,57]	14,5 [0,57]	87[3,43]
3/8 BSPP	71 [2,8]	30 [1,18]	35 [1,38]					42 [1,65]	15 [0,59]	89 [3,5]
1/2 BSPP	83 [3,27]	35 [1,38]	40 [1,57]				36 [1,42]	44 [1,73]	18 [0,71]	94 [3,7]
3/4 BSPP	95 [3,74]	49 [1,93]	57 [2,24]	6,2 [0,24]	6 [0,24]	180 [7,09]	50 [1,97]	62,5 [2,46]	25,4 [1]	105 [4,13]
1 BSPP	112 [4,41]	55 [2,17]	65 [2,56]					66,5 [2,62]	29,5 [1,16]	113 [4,45]
1-1/4 BSPP	120 [4,72]									
1-1/2 BSPP	124 [4,88]									

### ORDERING CODE

CODE	TYPE	F	MAX FLOW l/min [USgpm]	MAX PRESSURE bar [PSI]	WEIGHT kg [lb]
FA9026	GE21B	1/4 BSPP	25 [6,6]	500 [7250]	0,38 [0,84]
FA9027	GE22B	3/8 BSPP	35 [9,2]		0,47 [1,04]
FA9028	GE23B	1/2 BSPP	60 [15,8]		0,64 [1,41]
FA9029	GE24B	3/4 BSPP	100 [26,4]	420 [6090]	1,44 [3,17]
FA9030	GE25B	1 BSPP	150 [39,6]		2,22 [4,89]
FA9031	GE26B	1-1/4 BSPP		2,27 [5]	
FA9032	GE27B	1-1/2 BSPP		350 [5075]	2,39 [5,27]

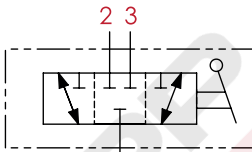


# GE3 BALL VALVES

**3 WAYS HIGH PRESSURE BALL VALVES**  
Steel ball valves, are used when it is necessary to divert the oil flow.



### HYDRAULIC CIRCUIT



**Warning**  
Pressure inlet only from center port 1

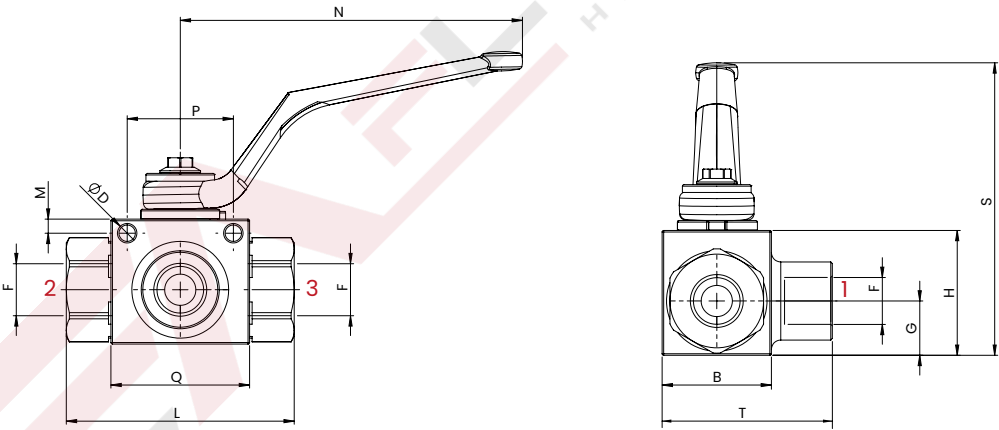
### TECHNICAL CHARACTERISTICS

mm [Inches]

F	B	H	D	N	Q	G	S	T	P	M	L
1/4 BSPP	26 [1,02]	33 [1,3]	4,1 [0,2]	110 [4,33]	40 [1,57]	14,5 [0,57]	87 [3,43]	42 [1,65]	34 [1,34]	4 [0,08]	69 [2,72]
3/8 BSPP	30 [1,18]	35 [1,38]			42 [1,65]	15 [0,59]	89 [3,5]	46 [1,81]			71 [2,8]
1/2 BSPP	35 [1,38]	40 [1,57]			44 [1,73]	18 [0,71]	94 [3,7]	54 [2,13]			83 [3,27]
3/4 BSPP	49 [1,93]	57 [2,24]	6,2 [0,24]	180 [7,09]	62,5 [2,46]	25,4 [1]	105 [4,13]	75 [2,95]	50 [1,97]	6 [0,24]	95 [3,74]
1 BSPP	55 [2,17]	65 [2,56]			66,5 [2,62]	29,5 [1,16]	113 [4,45]	89 [3,5]			112 [4,41]
1-1/4 BSPP											120 [4,72]
1-1/2 BSPP											124 [4,88]

### ORDERING CODE

CODE	TYPE	F	MAX FLOW l/min [USgpm]	MAX PRESSURE bar [PSI]	WEIGHT kg [lb]
FA9033	GE31B	1/4 BSPP	25 [6,6]	500 [7250]	0,41 [0,9]
FA9034	GE32B	3/8 BSPP	35 [9,2]		0,51 [1,12]
FA9035	GE33B	1/2 BSPP	60 [15,8]		0,72 [1,59]
FA9036	GE34B	3/4 BSPP	100 [26,4]	420 [6090]	1,58 [3,48]
FA9037	GE35B	1 BSPP	150 [39,6]		2,42 [5,34]
FA9038	GE36B	1-1/4 BSPP		350 [5075]	2,6 [5,73]
FA9039	GE37B	1-1/2 BSPP			2,76 [6,08]



mm [Inches]



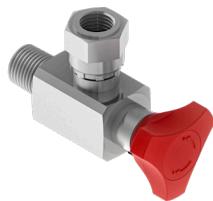


IN LINE SHUT-OFF VALVES

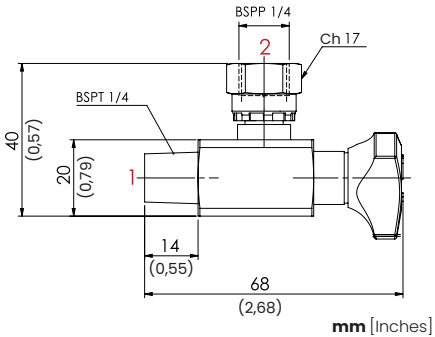
Shut-off in line valves are normally used to protect the pressure gauge.

ORDERING CODE

FA9083



RTM

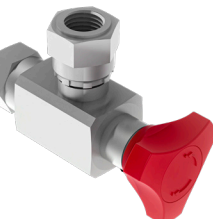


HYDRAULIC CIRCUIT

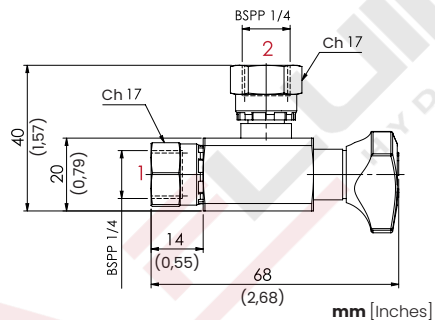


ORDERING CODE

FA9084



RTG

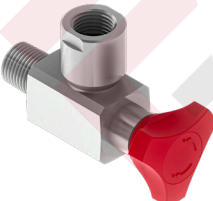


TECHNICAL CHARACTERISTICS -

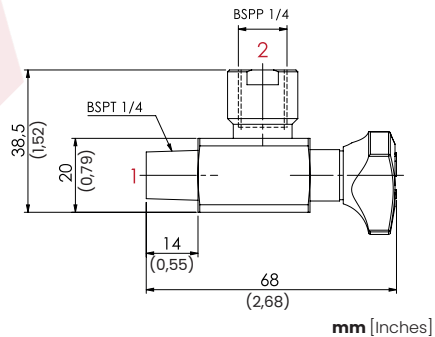
MAX PRESSURE bar [PSI]	WEIGHT kg [lbt]
400 [5800]	0,15 [0,33]

ORDERING CODE

FA9085



RTF



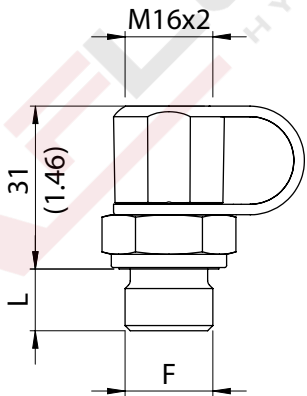
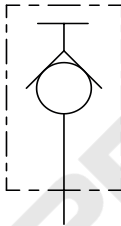
UPDATE: August 2022 (v.03)

# MPP TEST COUPLINGS BSPP

**TEST COUPLINGS FOR PRESSURE CHECKING**  
Test couplings are used to manually check the pressure inside a system.



### HYDRAULIC CIRCUIT



### TECHNICAL CHARACTERISTICS

mm [Inches]

F	Ch	L
1/8 BSPP	17	8 [0,31]
1/4 BSPP	19	12 [0,47]
3/8 BSPP	22	
1/2 BSPP	27	14 [0,55]
1 BSPP	98 [3,86]	110 [4,33]

### ORDERING CODE

CODE	TYPE	F	MAX PRESSURE bar [PSI]	TORQUE OF TIGHTENING Nm [lbt.ft]	WEIGHT kg [lbt]
FA9086	MPP0B	1/8 BSPP	400 [5800]	20 [14,6]	0,07 [0,16]
FA9087	MPP1B	1/4 BSPP	630 [9140]	30 [22]	0,08 [0,18]
FA9088	MPP2B	3/8 BSPP		60 [44]	0,10 [0,22]
FA9089	MPP3B	1/2 BSPP		80 [58,6]	0,13 [0,29]

mm [Inches]





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