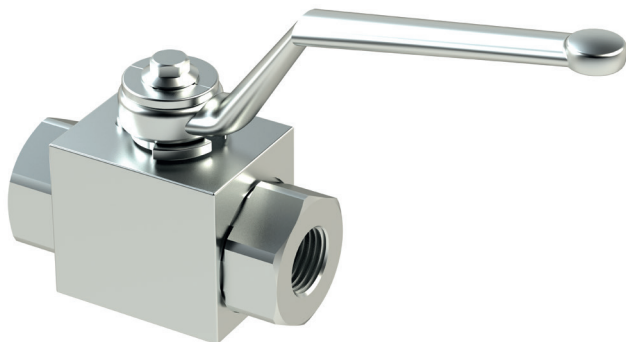


RAS2-BSPP VALVOLE A SFERA A 2 VIE

2 WAYS BALL VALVES

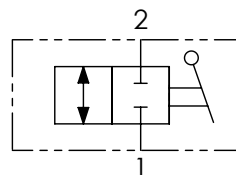


CODICE ORDINAZIONE ORDERING CODE

01	02	03
RAS2		

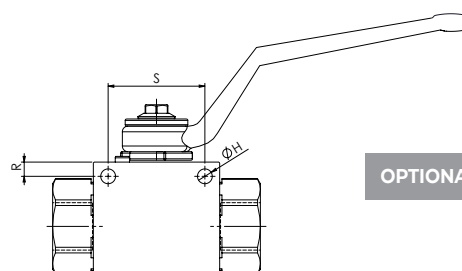
01	VALVOLE A SFERA A 2 VIE (2 WAYS BALL VALVES)	RAS2
02	DIMENSIONE (SIZE)	BSPP 1/8
		180
		BSPP 1/4
		140
		BSPP 3/8
		380
		BSPP 1/2
		120
		BSPP 3/4
		340
		BSPP 1
		100
		BSPP 1-1/4
		114
		BSPP 1-1/2
		112
03	OPTIONAL	Fori di fissaggio (Fixing ports)
		P

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

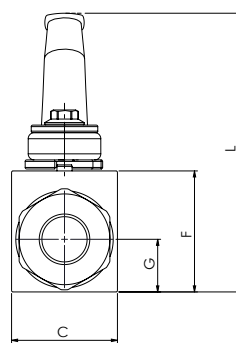
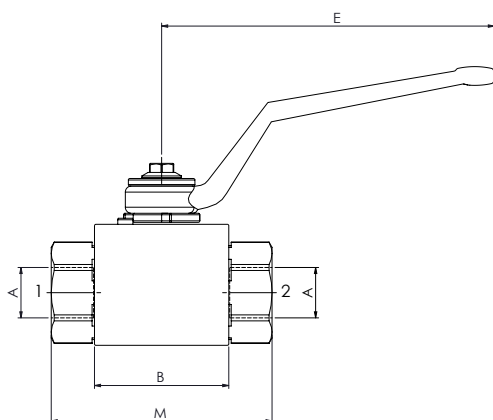


DATI TECNICI / TECHNICAL DATA

Olío idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



OPTIONAL

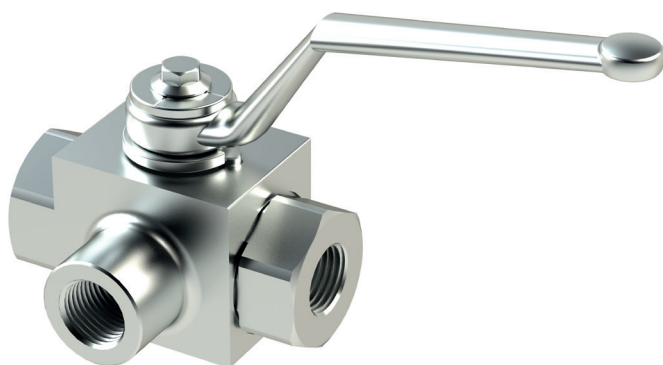


mm
(Inches)

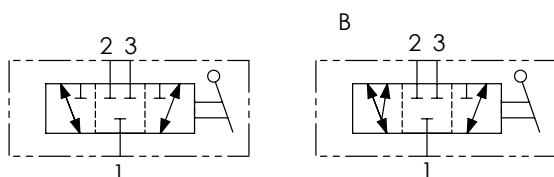
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS2180	BSPP 1/8	15 (4)	500 (7250)	42,4 (1.67)	30 (1.18)	110 (4.33)	35 (1.38)	14,5 (0.57)	5,2 (0.20)	91,5 (3.60)	71 (2.80)	4,5 (0.18)	34 (1.34)	0,5 (1.1)
RAS2140	BSPP 1/4	25 (6.6)		44,4 (1.75)	35 (1.38)		40 (1.57)	17,5 (0.69)		96,5 (3.80)	73 (2.87)			0,7 (1.5)
RAS2380	BSPP 3/8	35 (9.2)		48,4 (1.91)	37 (1.46)		43 (1.69)	18 (0.71)		99,5 (3.92)	83 (3.27)	5 (0.20)	36 (1.42)	0,8 (1.8)
RAS2120	BSPP 1/2	60 (15.8)		62,5 (2.46)	45 (1.77)		55 (2.17)	23,5 (0.93)		106,5 (4.19)	95 (3.74)			1,5 (3.3)
RAS2340	BSPP 3/4	100 (26.4)	400 (5800)			180 (7.09)			6,2 (0.24)					
RAS2100	BSPP 1													
RAS2114	BSPP 1-1/4	150 (39.6)	350 (5075)	66,5 (2.62)	55 (2.17)		65 (2.56)	29,5 (1.16)		116,5 (4.59)	120 (4.72)	6 (0.24)	50 (1.97)	2,3 (5)
RAS2112	BSPP 1-1/2										124 (4.88)			2,5 (5.5)

RAS3-BSPP VALVOLE A SFERA A 3 VIE 3 WAYS BALL VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



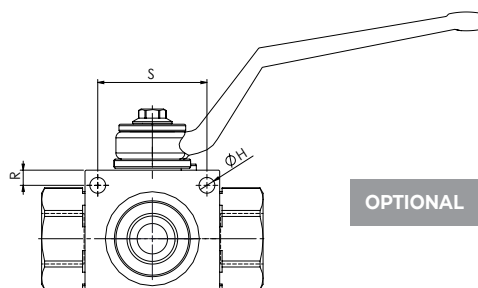
CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
RAS3			

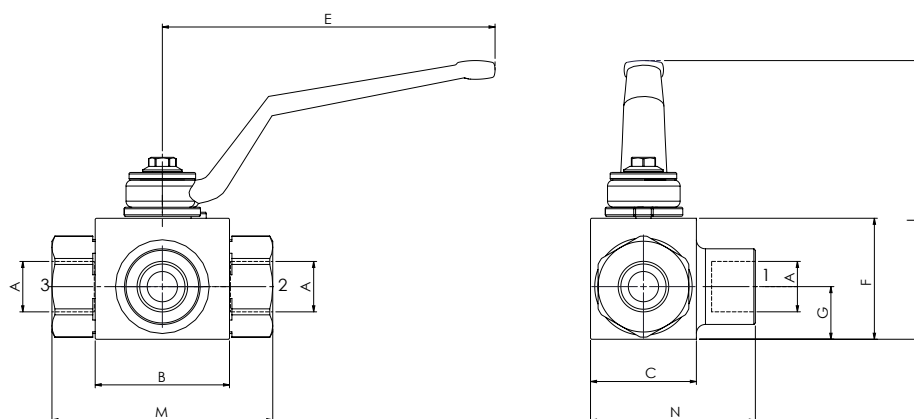
01	VALVOLE A SFERA A 3 VIE (3 WAYS BALL VALVES)		RAS3
02	DIMENSIONE (SIZE)	BSPP 1/8	180
		BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112
03	SCHEMA (CIRCUIT)	STANDARD	/
		SCHEMA B	B
04	OPTIONAL	Fori di fissaggio (Fixing ports)	P

DATI TECNICI / TECHNICAL DATA

Olivo idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



OPTIONAL

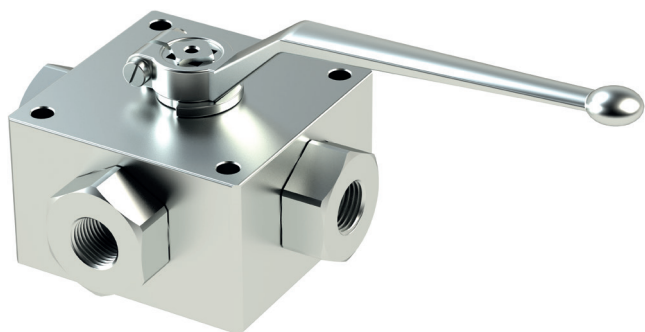


mm
(Inches)

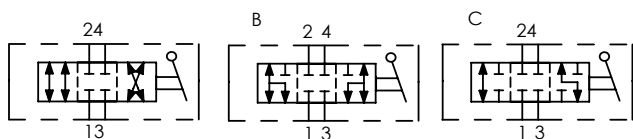
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS3180	BSPP 1/8	15 (4)	400 (5800)	42,4 (1.67)	30 (1.18)	110 (4.33)	35 (1.38)	14,5 (0.57)	5,2 (0.20)	91,5 (3.60)	71 (2.80)	48,5 (1.91)	4,5 (0.18)	34 (1.34)	0,6 (1.3)
RAS3140	BSPP 1/4	25 (6.6)		44,4 (1.75)	35 (1.38)		40 (1.57)	17,5 (0.69)		96,5 (3.80)	73 (2.87)	54,5 (2.15)	5 (0.20)	36 (1.42)	0,7 (1.5)
RAS3380	BSPP 3/8	35 (9.2)		48,4 (1.91)	37 (1.46)		43 (1.69)	18 (0.71)		99,5 (3.92)	83 (3.27)	58,5 (2.30)	6 (0.24)	50 (1.97)	0,8 (1.8)
RAS3120	BSPP 1/2	60 (15.8)	350 (5075)	62,5 (2.46)	45 (1.77)	180 (7.09)	55 (2.16)	23,5 (0.93)	6,2 (0.24)	106,5 (4.19)	95 (3.74)	75 (2.95)			1,6 (3.5)
RAS3340	BSPP 3/4	100 (26.4)		66,5 (2.62)	55 (2.17)		65 (2.56)	29,5 (1.16)		116,5 (4.59)	120 (4.72)	87,5 (3.44)			2,6 (5.7)
RAS3100	BSPP 1	150 (89.6)													2,4 (5.3)
RAS3114	BSPP 1-1/4														2,6 (5.7)
RAS3112	BSPP 1-1/2														2,8 (6)

RAS4-BSPP



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

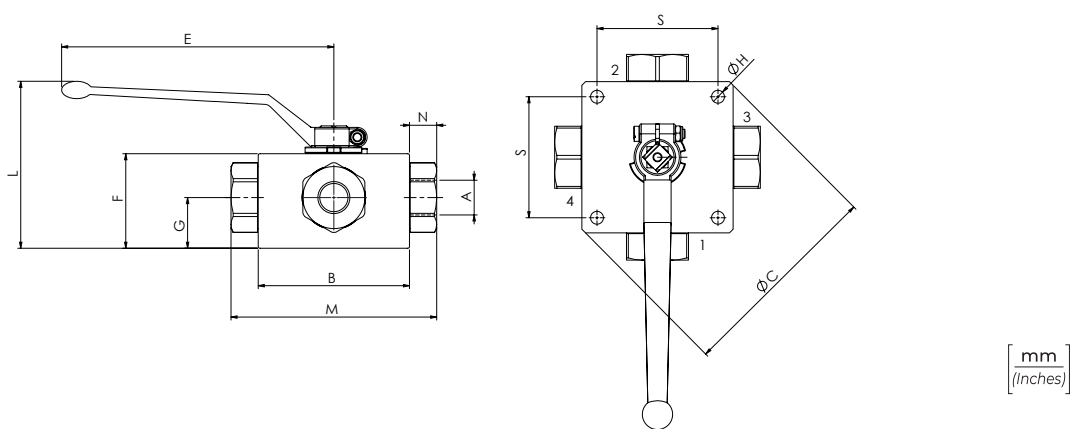
**DATI TECNICI / TECHNICAL DATA**

Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio - Oil temperature	-20°C	+80°C	-4°F + 176°F
Temperatura ambiente - Environment temperature	-20°C	+50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
RAS4			P

01	VALVOLE A SFERA A 4 VIE (4 WAYS BALL VALVES)		RAS4
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112
03	SCHEMA (CIRCUIT)	STANDARD	/
		SCHEMA B	B
		SCHEMA C	C
04	OPTIONAL	Fori di fissaggio (Fixing ports)	P

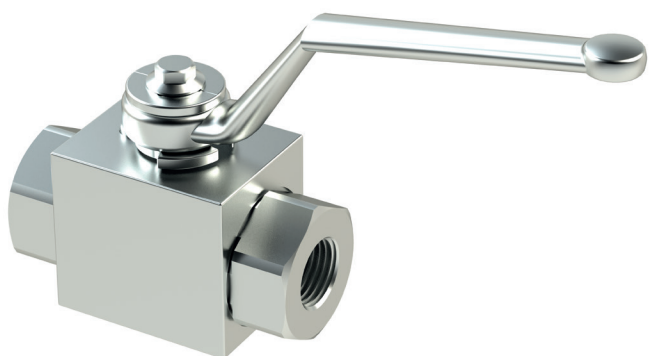


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

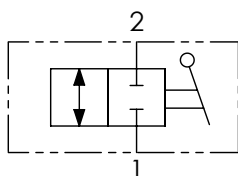
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS4140	BSPP 1/4	25 (6.6)	500 (7250)	70 (2.76)	/	110 (4.33)	42 (1.65)	21,5 (0.85)	6,5 (0.26)	97,5 (3.84)	100 (3.94)	15,5 (0.61)	55 (2.17)	1,80 (3.96)
RAS4380	BSPP 3/8	35 (9.2)	400 (5800)	80 (3.15)		180 (7.09)	53 (2.09)	28,5 (1.12)		101 (3.98)	115 (4.53)		65 (2.56)	3 (6.60)
RAS4120	BSPP 1/2	60 (15.8)	350 (5075)	100 (3.94)			62 (2.44)	33 (1.30)		110 (4.33)	136 (5.35)	17 (0.67)	80 (3.15)	5,2 (11.44)
RAS4340	BSPP 3/4	100 (26.4)		113 (4.45)		68 (2.68)	36 (1.42)	8,5 (0.33)	116,5 (4.59)	156 (6.14)	21 (0.83)	85 (3.35)	6,9 (15.18)	
RAS4100	BSPP 1	150 (89.6)		118 (4.65)	138 (5.43)	300 (11.81)	82 (3.23)		47,5 (1.87)	130,5 (5.14)	181 (7.13)		24 (0.94)	9 (19.80)
RAS4114	BSPP 1-1/4		9,2 (20.24)											
RAS4112	BSPP 1-1/2													

RAS2-NPT VALVOLE A SFERA A 2 VIE

2 WAYS BALL VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



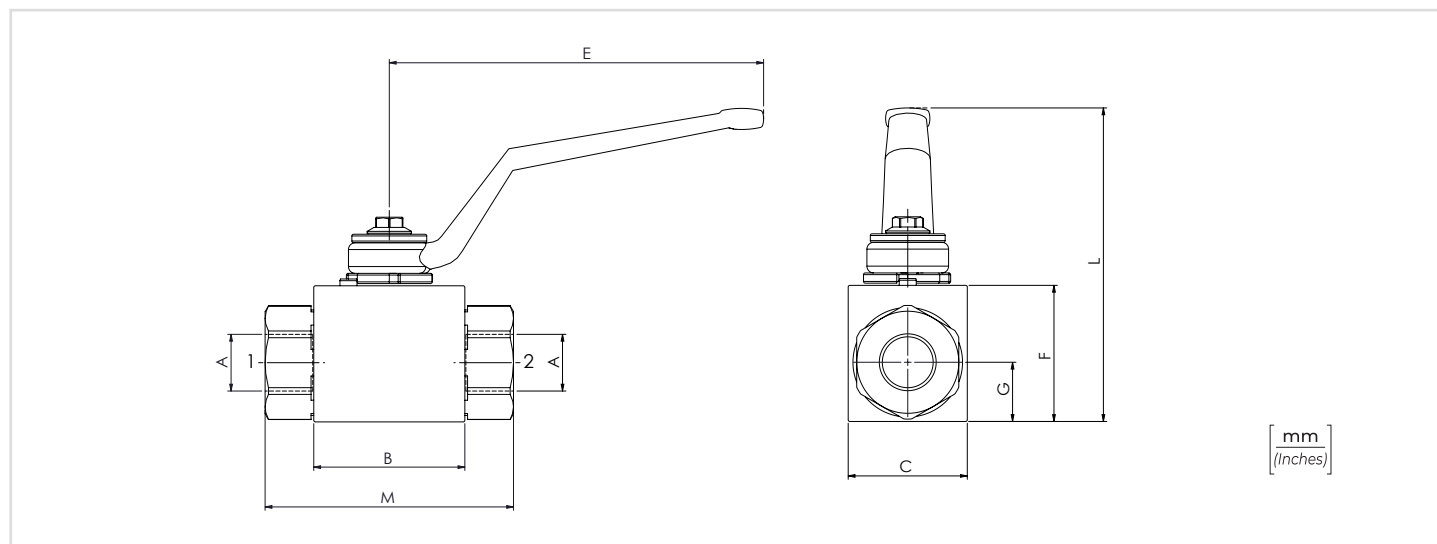
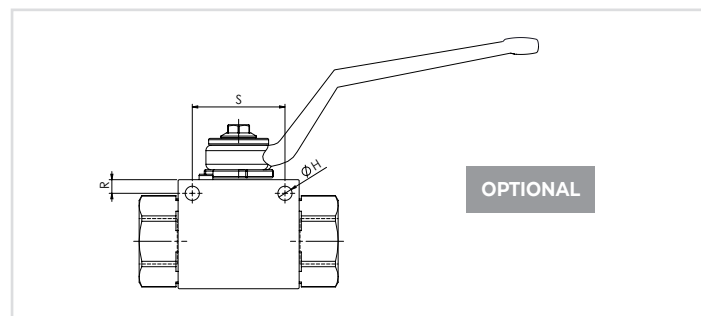
CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
RAS2		NPT	

01	VALVOLE A SFERA A 2 VIE (2 WAYS BALL VALVES)	RAS2
02	DIMENSIONE (SIZE)	NPT 1/8
		180
		NPT 1/4
		140
		NPT 3/8
		380
		NPT 1/2
		120
		NPT 3/4
		340
		NPT 1
		100
		NPT 1-1/4
		114
		NPT 1-1/2
		112
03	FILETTATURA (THREAD)	NPT
04	OPTIONAL	Fori di fissaggio (Fixing ports)
		P

DATI TECNICI / TECHNICAL DATA

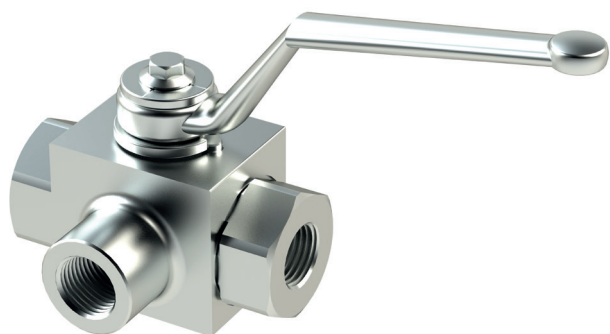
Olío idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



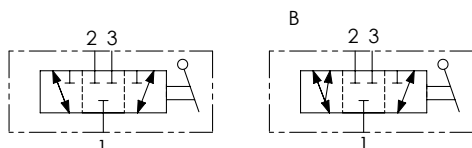
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS2180NPT	NPT 1/8	15 (4)	500 (7250)	42,4 (1.67)	30 (1.18)	110 (4.33)	35 (1.38)	14,5 (0.57)	5,2 (0.20)	91,5 (3.60)	71 (2.80)	4,5 (0.18)	34 (1.34)	0,5 (1.1)
RAS2140NPT	NPT 1/4	25 (6.6)		44,4 (1.75)	35 (1.38)		40 (1.57)	17,5 (0.69)		96,5 (3.80)	73 (2.87)			0,7 (1.5)
RAS2380NPT	NPT 3/8	35 (9.2)		48,4 (1.91)	37 (1.46)		43 (1.69)	18 (0.71)		99,5 (3.92)	83 (3.27)	5 (0.20)	36 (1.42)	0,8 (1.8)
RAS2120NPT	NPT 1/2	60 (15.8)		62,5 (2.46)	45 (1.77)		55 (2.17)	23,5 (0.93)		106,5 (4.19)	95 (3.74)			1,5 (3.3)
RAS2340NPT	NPT 3/4	100 (26.4)	400 (5800)	66,5 (2.62)	55 (2.17)	180 (7.09)	65 (2.56)	29,5 (1.16)	6,2 (0.24)	116,5 (4.59)	120 (4.72)	6 (0.24)	50 (1.97)	2,3 (5)
RAS2100NPT	NPT 1	150 (39.6)	350 (5075)								112 (4.41)			
RAS2114NPT	NPT 1-1/4										124 (4.88)			2,5 (5.5)
RAS2112NPT	NPT 1-1/2													

RAS3-NPT VALVOLE A SFERA A 3 VIE 3 WAYS BALL VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



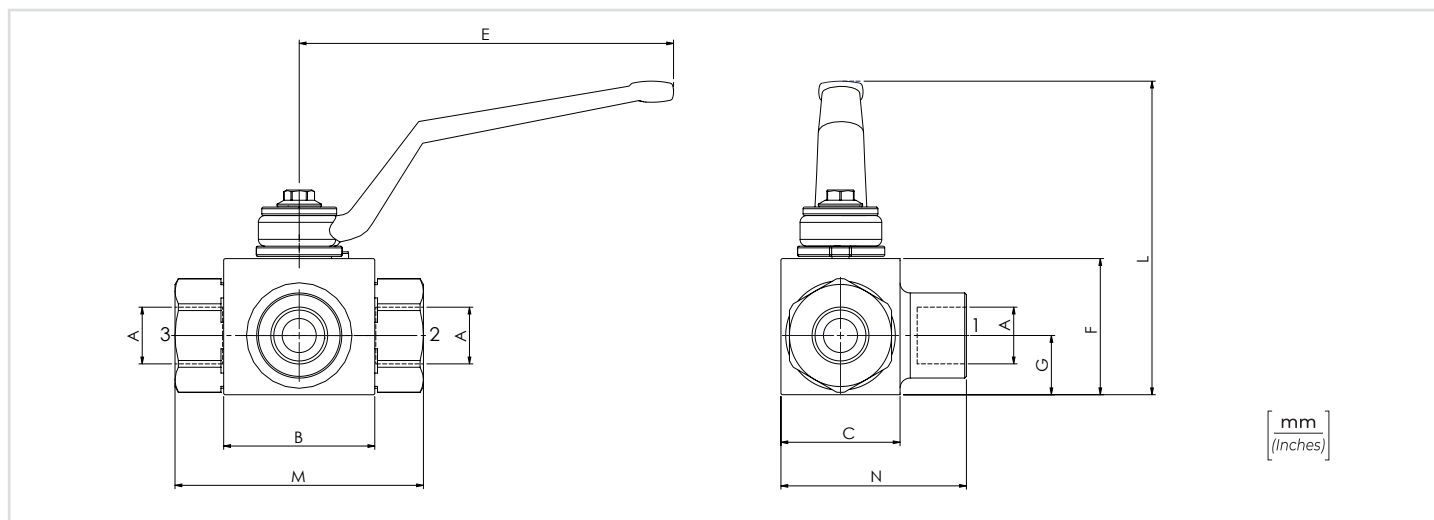
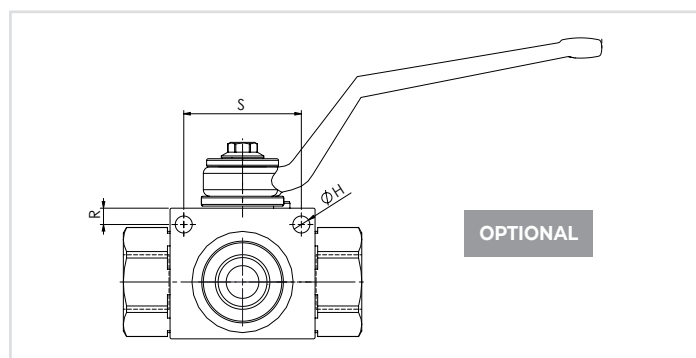
CODICE ORDINAZIONE ORDERING CODE

01	02	03	04	05
RAS3		NPT		

01	VALVOLE A SFERA A 3 VIE (3 WAYS BALL VALVES)	RAS3
02	DIMENSIONE (SIZE)	NPT 1/8
		NPT 1/4
		NPT 3/8
		NPT 1/2
		NPT 3/4
		NPT 1
		NPT 1-1/4
		NPT 1-1/2
03	FILETTATURA (THREAD)	NPT
04	SCHEMA (CIRCUIT)	Standard
		Schema B
05	OPTIONAL	Fori di fissaggio (Fixing ports)

DATI TECNICI / TECHNICAL DATA

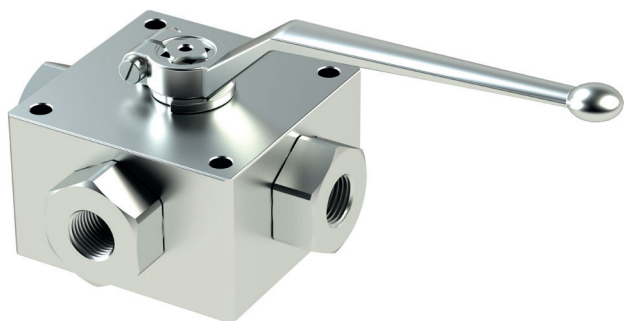
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



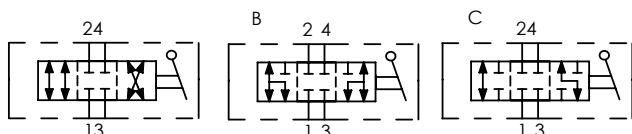
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	R	S	PESO APPROX APPROX WEIGHT kg-lbt		
RAS3180NPT	NPT 1/8	15 (4)	400 (5800)	42,4 (1.67)	30 (1.18)	110 (4.33)	35 (1.38)	14,5 (0.57)	5,2 (0.20)	91,5 (3.60)	71 (2.80)	48,5 (1.91)	4,5 (0.18)	34 (1.34)	0,6 (1.3)		
RAS3140NPT	NPT 1/4	25 (6.6)															
RAS3380NPT	NPT 3/8	35 (9.2)															
RAS3120NPT	NPT 1/2	60 (15.8)	350 (5075)	48,4 (1.91)	37 (1.46)	180 (7.09)	43 (1.69)	18 (0.71)	6,2 (0.24)	99,5 (3.92)	83 (3.27)	58,5 (2.30)	6 (0.24)	50 (1.97)	0,8 (1.8)		
RAS3340NPT	NPT 3/4	100 (26.4)		62,5 (2.46)	45 (1.77)		55 (2.16)	23,5 (0.93)		106,5 (4.19)	95 (3.74)	75 (2.95)			1,6 (3.5)		
RAS3100NPT	NPT 1	150 (89.6)		66,5 (2.62)	55 (2.17)		65 (2.56)	29,5 (1.16)		116,5 (4.59)	112 (4.41)	87,5 (3.44)			2,4 (5.3)		
RAS3114NPT	NPT 1-1/4										120 (4.72)				2,6 (5.7)		
RAS3112NPT	NPT 1-1/2										124 (4.88)				2,8 (6)		

VALVOLE A SFERA A 4 VIE
4 WAYS BALL VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

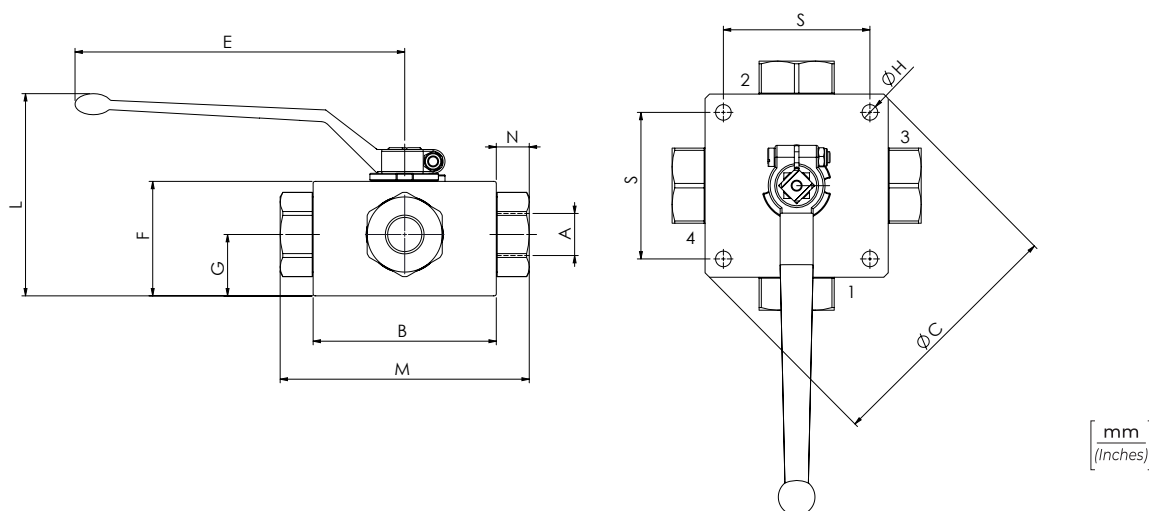
**DATI TECNICI / TECHNICAL DATA**

Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio - Oil temperature	-20°C	+80°C	-4°F + 176°F
Temperatura ambiente - Environment temperature	-20°C	+50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04	05
RAS4		NPT		P

01	VALVOLE A SFERA A 4 VIE (4 WAYS BALL VALVES)		RAS4
02	DIMENSIONE (SIZE)	NPT 1/4	140
		NPT 3/8	380
		NPT 1/2	120
		NPT 3/4	340
		NPT 1	100
		NPT 1-1/4	114
		NPT 1-1/2	112
03	FILETTATURA (THREAD)	NPT	NPT
04	SCHEMA (CIRCUIT)	Standard	/
		Schema B	B
		Schema C	C
05	OPTIONAL	Fori di fissaggio (Fixing ports)	P



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	E	F	G	H	L	M	N	S	PESO APPROX APPROX WEIGHT kg-lbt
RAS4140NPT	NPT 1/4	25 (6.6)	500 (7250)	70 (2.76)	/	110 (4.33)	42 (1.65)	21,5 (0.85)	6,5 (0.26)	97,5 (3.84)	100 (3.94)	15,5 (0.61)	55 (2.17)	1,80 (3.96)
RAS4380NPT	NPT 3/8	35 (9.2)	400 (5800)	80 (3.15)		180 (7.09)	53 (2.09)	28,5 (1.12)		101 (3.98)	115 (4.53)	65 (2.56)	3 (6.60)	
RAS4120NPT	NPT 1/2	60 (15.8)	350 (5075)	100 (3.94)		62 (2.44)	33 (1.30)	110 (4.33)	136 (5.35)	17 (0.67)	80 (3.15)	5,2 (11.44)		
RAS4340NPT	NPT 3/4	100 (26.4)		113 (4.45)		68 (2.68)	36 (1.42)	116,5 (4.59)	156 (6.14)	21 (0.83)	85 (3.35)	6,9 (15.18)		
RAS4100NPT	NPT 1	150 (89.6)		118 (4.65)	138 (5.43)	300 (11.81)	82 (3.23)	47,5 (1.87)	8,5 (0.33)	130,5 (5.14)		181 (7.13)	24 (0.94)	
RAS4114NPT	NPT 1-1/4													
RAS4112NPT	NPT 1-1/2													