



BALL VALVES



MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
282929-2019-AQ-IBE-ENAC

Initial certification date:
22 February 2016

Valid:
11 March 2022 – 19 February 2025
Expiry date of last certification cycle:
19 February 2022
Date of last re-certification:

This is to certify that the management system of

INDUSTRIAS TECNICAS DE VALVULERIA, S.A.

C/ Berguedà, 14-16 (Esq.Empordà), Pol. Ind. Can Bernardes - Subirà, 08130, Santa Perpetua de Mogoda, Barcelona, Spain

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Design, manufacture and sales of quick couplings, check valves and ball valves.

Place and date:
Barcelona, 11 March 2022

For the issuing office:
DNV - Business Assurance
Gran Vía de les Corts Catalanes 130-136, Pl. 9,
08038, Barcelona, Spain



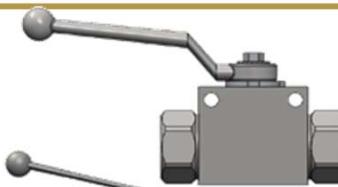
A handwritten signature in black ink, appearing to read "Ana del Rio Salgado". Below the signature is a horizontal line with the name "Ana del Rio Salgado" and the title "Management Representative" written above it.



Series

402

V2RH
V2MT



412

V2RD



432

V3RH
V3MT



433

V3RH



452

V2CR



453

V3CR



470

EK2



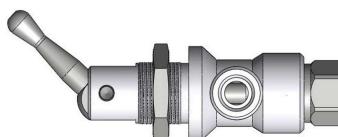
471

EK3



472

VPN



BALL VALVES



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DIRECTIONS FOR USE

Ball Valves



Before installation!!!

- ✓ Read carefully the assembly and safety instructions.
- ✓ Installation of the ball valves can be only done by well qualified personnel.
- ✓ Check whether the product meets the requirement and if it has been damaged during transport.
- ✓ Ensure that valve is suitable for installation, required pressure, connection, flow characteristic and is compatible with the medium used.
- ✓ Before installation clean up hose and pipes.
- ✓ Check that line temperature work within permitted limits.
- ✓ Verify that the application pressure is equal or less than the maximum working pressure of the valve.



Start-up!!

- ✓ Installation of ball valves can be only done if the circuit is depressurized. **1**
- ✓ Make sure the energy supply is disconnected.
- ✓ Always wear protective clothing.
- ✓ Remember to bleed and drain the pipe system before starting the installation. Air bubbles can cause explosions by pressurizing abruptly again.
- ✓ For connecting the valve during installation, always fix the thread adapter through a wrench. **4**
- ✓ Make sure to work always within permitted limits on pressure and temperature. **5**
- ✓ The valve is opened when the handle is in longitudinal position (parallel to the line). Valve is closed when the handle is in perpendicular position (right angle to the line). Switch the handle always 90° to reach the limit for opening or closing the flow.
- ✓ Ball valves can be installed in angle, vertical and horizontal position.
- ✓ Run always a test after installation.



Storage!!!

All our ball valves are brought through a surface treatment to improve its conservation. We recommend:

- Store in cool, dry, and high places above the ground.
- Keep away from heat sources or direct impact of the sunlight.
- Review periodically the valves whether these have signs of corrosion, cracks and/or visible damages.



Maintenance

- The ball valves should never be manipulated or unassembled. We warn to not use any kind of sealant.
- To avoid unexpected damages, run regularly inspections. If during inspection or first runs following conditions are detected, system should be turned off and the product replaced:
 - ✓ Malfunction
 - ✓ Presence of leakage
 - ✓ Visible damages, cracks and or corrosion
 - ✓ Difficulties by switching handle
 - ✓ System contamination
- The maintenance period should be defined by the end user depending on the type of application and operating conditions.
- After a long storing period or a long breakdown in operating position, the torque is higher than the force on impulse.



Warnings!!!



- ✗ The ball valves are not approved for controlling the flow constriction. Intermediate positions can cause damages on the ball seats. This leads to leakages. Flow constriction causes also an important increase of temperature. **2**
- ✗ Do never use inappropriate tool e.g. clamp tools, hammers, key tools. It can damage the steam and valve body. **3**
- ✗ Do never tight or loose the extremes of the ball valve, this leads to a torque increase and leakages.
- ✗ When installing the valve in a circuit, do always hold it from the end ports with a hexagonal key spanner. Holding the valve from the body or handle will loosen the torque, causing leakages.
- ✗ Avoid contaminating the hydraulic system. Contaminated mediums can damage internal sealing components.
- ✗ Operating over and under the permitted working pressure and temperature limits, leads to deterioration and leakages of the ball valve.
- ✗ In case of malfunction, ball valve must be replaced by qualified personnel. First depressurize and drain the system. If necessary, out of service.
- ✗ Repairs and reworks can be only done by the manufacturer or qualified and authorized personnel.
- ✗ If our ball valves are dismantled improperly without authorization, any warranty and damage claim against the manufacturer are null and void.
- ✗ Any changes on design or reworks on ball valve e.g. drilling fixing holes, welding plates are strictly prohibited without previous consultation with the manufacturer. **6**
- ✗ This manual is not intended to replace any national regulation on accident prevention and local safety regulations of the operating company, which on this should be considered a priority.

INTEVA and its distributors are not responsible for damages caused on people or machines for an improper use or incorrect maintenance of the products.

The product selection, installation, maintenance and use, is under end users responsibility.

The distributor must ensure that all product requirements are met and must inform the end user about the product use and maintenance.



Elimination!!!

In compliance with the laws of each country on the disposal of industrial waste, the valves in disuse must be eliminated taking into account that all components can be recycled.

Consider that:

- Elimination and removal must be done by qualified personnel only.
- Before extraction, depressurize pipes and circuit. Ball valve must relieve pressure from its cavity as well.

V160421



402 SERIES V2RH

2 WAY BALL VALVES: F - F
CARBON STEEL
BSP / NPTF / ISO 11926 (J1926)

TECHNICAL SPECIFICATIONS

Operating pressure: Up to 500 Bar

Available Sizes: 1/4" a 1"

Materials: Body: Carbon Steel EN 10277-3

O-rings: NBR / VITON / EPDM

Ball seats: Polyamide 6

Handle: Zamak - 5

Working Temperature (O-rings)

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Available Threads: BSP / NPTF / ISO 11926 (J1926)

Sectors: Industrial / Agricultural

Anchoring System: Mounting H / ISO 5211 (Mounting actuators)



Applications: Designed for oil hydraulic (Group II- 2014/68/EU)

Interchange: PISTER BKH / MHA BKA / HYDAC KHB / DMIC DVH

MODEL STRUCTURE

Example:

402.1015 AB

Series	Material	Mounting H.	O-rings	Size (S)	Thread
402.	1 Carbon St.	0 No	1 NBR	1 6	1/4"
		1 Yes	2 VITON	2 10	3/8"
			3 EPDM	3 13	1/2"
				4 20	3/4"
				5 25	1"

2 letters as
per Table of
Threads

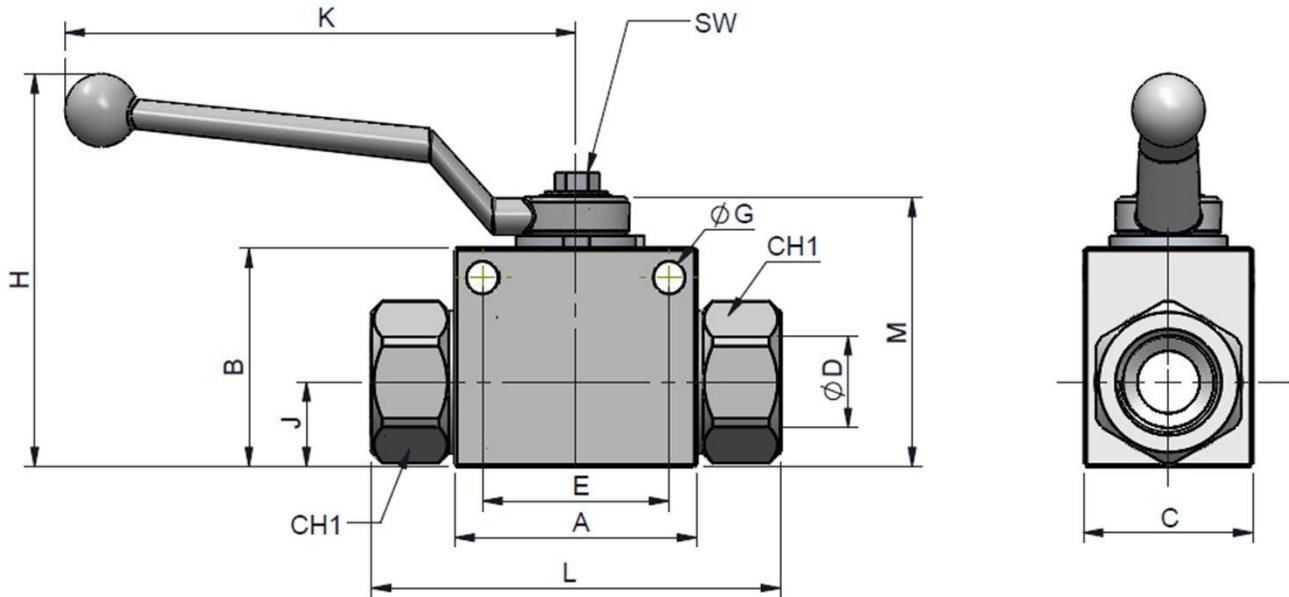
402-1

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402 SERIES V2RH

2 WAY BALL VALVES: F - F
CARBON STEEL
BSP / NPTF/ ISO 11926 (J1926)



(S)	D	Without M.H.	With M.H.		CH1	L	A	B	M	K	H	J	C	SW	ØG	E
6	1/4" BSP	402.1011AB	402.1111AB	500	22	75	40	35	45.50	105.50	71	13	26	9	4.50	320
	1/4" NPTF	402.1011BB	402.1111BB													
	7/16"- 20h UNF	402.1011GA	402.1111GA													
10	3/8" BSP	402.1012AC	402.1112AC	500	27	76	45	40	50.50	105.50	76	16	32	9	5.20	320
	3/8" NPTF	402.1012BC	402.1112BC													
	9/16"- 18h UNF	402.1012GC	402.1112GC													
13	1/2" BSP	402.1013AD	402.1113AD	400	30	85	50	45	55.50	105.50	81	17.50	35	9	6.50	38.50
	1/2" NPTF	402.1013BD	402.1113BD													
	3/4"- 16h UNF	402.1013GF	402.1113GF													
20	3/4" BSP	402.1014AE	402.1114AE	400	41	93	60	58	73	159.50	108	23	50	14	6.50	48.50
	3/4" NPTF	402.1014BE	402.1114BE													
	1 1/16"- 12h UN	402.1014GK	402.1114GK													
25	1" BSP	402.1015AF	402.1115AF	350	46	115	65	80	159.50	115	27.50	57	14	8.50	50.50	
	1" NPTF	402.1015BF	402.1115BF		46	115										
	1 1/4" BSP	402.1015AG	402.1115AG		50	137										
	1 1/4" NPTF	402.1015BG	402.1115BG		50	137										
	1 1/2" BSP	402.1015AH	402.1115AH		55	147										
	1 1/2" NPTF	402.1015BH	402.1115BH		55	147										
	1 5/16"-12h UN	402.1015GO	402.1115GO		46	115										

402-2

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402 SERIES V2MT

2 WAY BALL VALVES: M – M
CARBON STEEL
DIN 2353 (ISO 8434-1)

TECHNICAL SPECIFICATIONS

Operating pressure: Up to 500 Bar

Available Sizes: 1/4" a 1"

Materials: Body: Carbon Steel EN 10277-3

O-rings: NBR / VITON / EPDM

Ball seats: Polyamide 6

Handle: Zamak - 5

Available Threads: DIN 2353 (ISO 8434-1)

Working Temperature (O-rings)

Anchoring System: Mounting H / ISO 5211 (Mounting actuators)

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Applications: Designed for oil hydraulic (Group II- 2014/68/EU)

Sectors: Industrial / Agricultural

Interchange: PISTER BKH / MHA BKA / HYDAC KHB / DMIC DVH



MODEL STRUCTURE

Example:

402.1113 JG

Series	Material	Mounting H.	O-rings	Size (S)	Thread	
402.	1 Carbon St.	0 No 1 Yes	1 NBR 2 VITON 3 EPDM	1 6 2 10 3 13 4 20 5 25	1/4" 3/8" 1/2" 3/4" 1"	2 letters as per Table of Threads

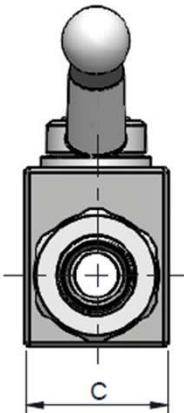
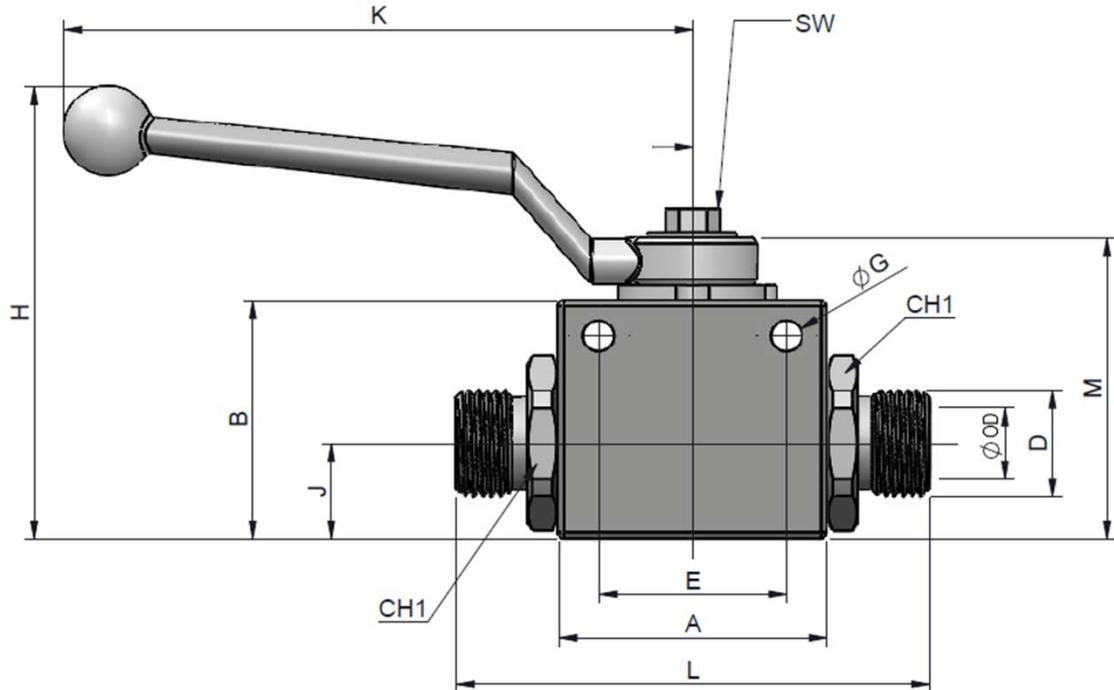
402-3

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402 SERIES V2MT

2 WAY BALL VALVES: M – M
CARBON STEEL
DIN 2353 (ISO 8434-1)



(S)	D	OD	Without M.H.	With M.H.		CH1	L	A	B	M	K	H	J	C	SW	Ø G	E	
6	M12x1.5	6L	402.1011JB	402.1111JB		22	79	40	35	45.50	106	71	13	26	9	4.50	320	
	M14x1.5	8L	402.1011JC	402.1111JC			80											
	M16x1.5	8S	402.1011KD	402.1111KD			77	45	35	50.50	106	76	16	32	9	5.20		
	M18x1.5	10S	402.1011KE	402.1111KE			80											
10	M16x1.5	10L	402.1012JD	402.1112JD		500	27	45	35	50.50	106	76	16	32	9	5.20	320	
	M18x1.5	12L	402.1012JE	402.1112JE														
	M22x1.5	15L	402.1012JG	402.1112JG			30	93	50	55.50	106	81	17.50	35	9	6.50		
	M20x1.5	12S	402.1012KF	402.1112KF														
	M22x1.5	14S	402.1012KG	402.1112KG														
13	M22x1.5	15L	402.1013JG	402.1113JG		400	41	108	60	58	73	160	108	23	50	14	48.50	
	M26x1.5	18L	402.1013JI	402.1113JI														
	M24x1.5	16S	402.1013KH	402.1113KH			46	114	65	65	80	160	115	27.50	57	14		
	M30x2.0	20S	402.1013KJ	402.1113KJ														
20	M30x2.0	22L	402.1014JJ	402.1114JJ		350	41	108	60	58	73	160	108	23	50	14	48.50	
	M30x2.0	20S	402.1014KJ	402.1114KJ														
	M36x2.0	25S	402.1014KK	402.1114KK			46	115	65	65	80	160	115	27.50	57	14	8.50	
25	M36x2.0	28L	402.1015JK	402.1115JK		350	46	114	65	65	80	160	115	27.50	57	14	8.50	50.50
	M42x2.0	30S	402.1015KL	402.1115KL														

402-4

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402 SERIES

ISO 5211

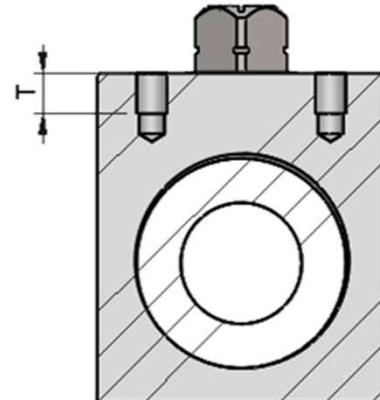
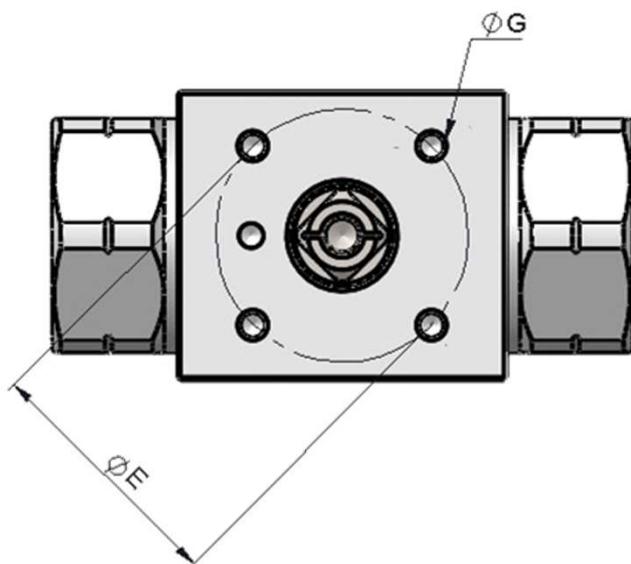
(DIRECT MOUNTING OF ACTUATORS)

Anchoring system for direct mounting part-turn actuators.
Available in our two-way valves in all sizes and threads.

Example:

402.1015 AB F03

Series	Material	Mounting H.	O-rings	Size (S)	Thread	ISO 5211*
402.	1 Carbon St.	0 No	1 NBR	1 6	1/4"	-
		1 Yes	2 VITON	2 10	3/8"	F03
			3 EPDM	3 13	1/2"	F04
				4 20	3/4"	F05
				5 25	1"	



V2RH - V2MT

(S)	Type	ØG	ØE	T	Max. Flange Torque (N m)
10	F03	M5	36	12	32
13	F03	M5	36	12	32
	F04	M5	42	12	63
20	F05	M6	50	12	125
25	F05	M6	50	12	125



*If Anchor Holes according ISO 5211 option is selected, sidely mounting holes option isn't compatible.

402-5

v11



412 SERIES V2RD

2 WAY BALL VALVES



TECHNICAL SPECIFICATIONS

Operating pressure: Up to 500 Bar

Available Sizes: 1/4" a 2"

Materials: Body: Carbon Steel EN 10277-3
Stainless Steel 316 / 303

Working Temperature (O-rings)

O-rings: NBR / VITON / EPDM

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Ball seats: Polyamide 6

Sectors: Industrial / Agricultural

Handle: Zamak - 5



Available Threads: BSP / NPTF / ISO 11926 (J1926)
DIN 2353 (ISO 8434-1)

Anchoring System: Available ISO 5211 (Mounting actuators)

Applications: Designed for oil hydraulic (Group II- 2014/68/EU)

Interchange: PISTER BKH / MHA BKA / HYDAC KHB / DMIC DVH

MODEL STRUCTURE

Example:

412.1016 AG

Series	Material	Mounting H.	O-rings	Size (S)	Thread	
412.	1 Carbon St.	0 No	1 NBR	1 6	1/4"	2 letters as per Table of Threads
	2 SS316		2 VITON	2 10	3/8"	
	3 SS303		3 EPDM	3 13	1/2"	
				4 20	3/4"	
				5 25	1"	
				6 32	1 1/4"	
				7 40	1 1/2"	
				8 50	2"	

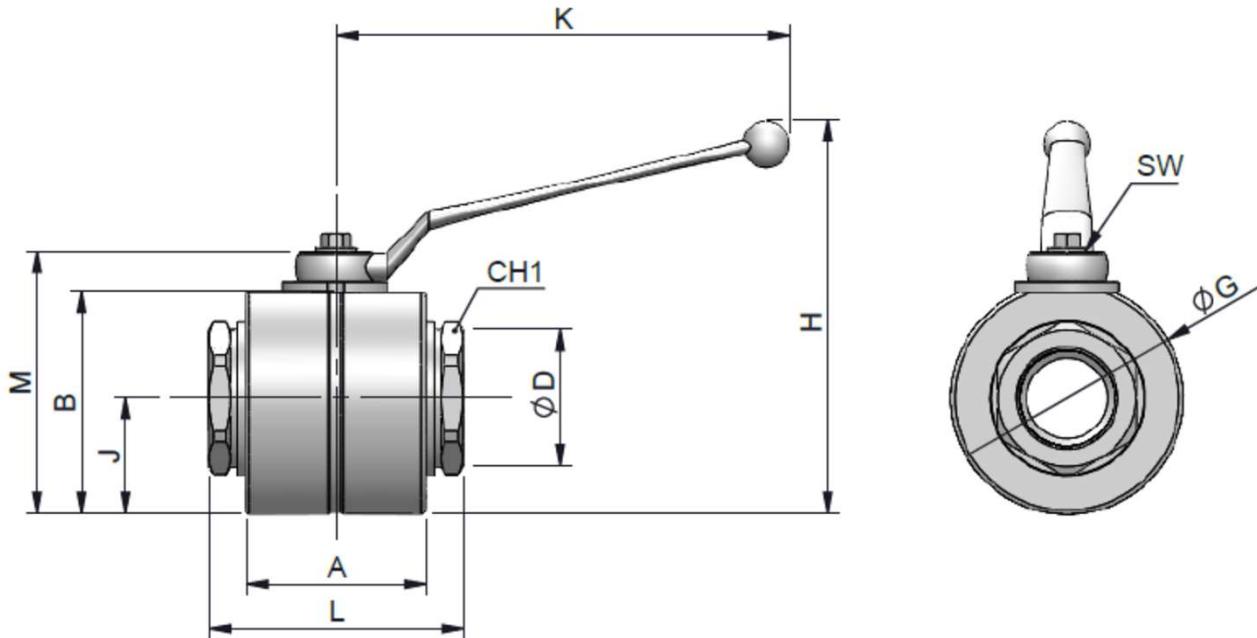
412-1

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412 SERIES V2RD

2 WAY BALL VALVES: F – F
CARBON STEEL
BSP / NPTF / ISO 11926 (J1926)



(S)	Ø D	REF.	Image	CH1	L	A	M	K	H	J	B	ØG	SW
32	1 1/4" BSP	412.1016AG		320	55	110	80	100	160	135	45	86	90
	1 1/4" NPTF	412.1016BG											
	1 5/8"- 12h UN (ORB)	412.1016GT											
	M45x2 35L	412.1016JM											
	M52x2 38S	412.1016KN											
40	1 1/2" BSP	412.1017AH		320	65	120	85	127	214	186	55	105	110
	1 1/2" NPTF	412.1017BH											
50	2" BSP	412.1018AI		320	80	140	100	136	214	195	59	114	118
	2" NPTF	412.1018BI											

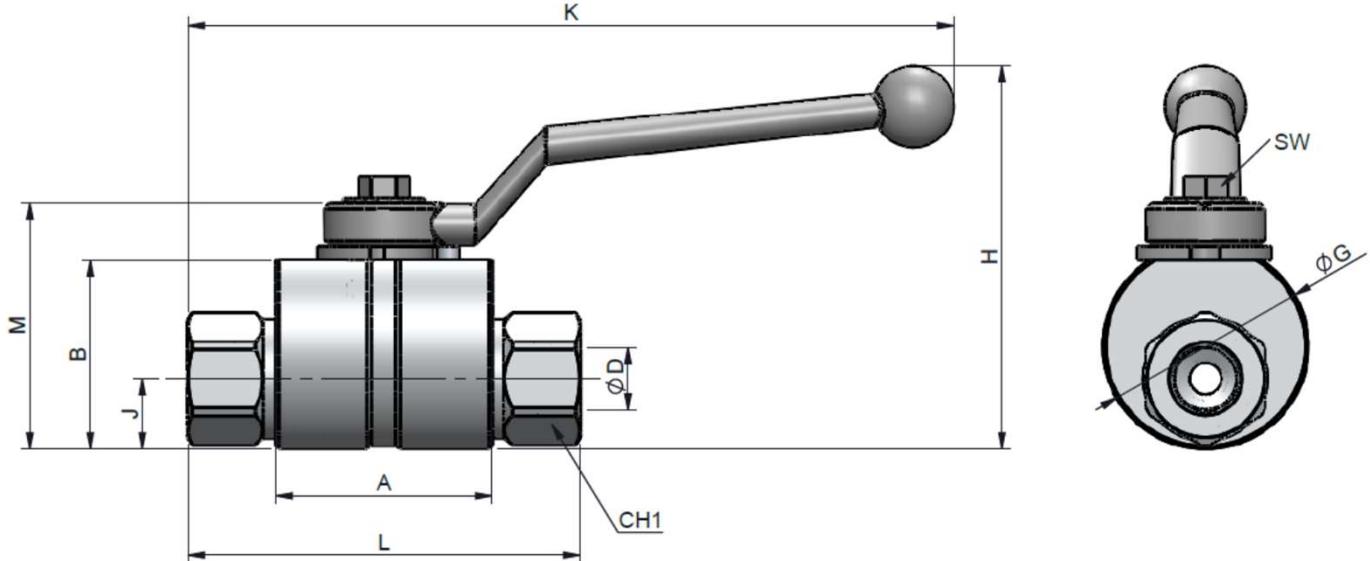
412-2

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412 SERIES V2RD

2 WAY BALL VALVES: F – F
SS316
BSP / NPTF / ISO 11926 (J1926)



(S)	Ø D	REF.		CH1	L	A	M	K	H	J	B	ØG	SW
6	1/4" BSP	412.2021AB	500	22	75	40	46	106	71	13	35	38	9
	1/4" NPTF	412.2021BB											
	7/16"- 20h UNF (ORB)	412.2021GA											
10	3/8" BSP	412.2022AC	500	27	75	45	51	106	76	16	40	45	9
	3/8" NPTF	412.2022BC											
	9/16"- 18h UNF (ORB)	412.2023GF											
13	1/2" BSP	412.2023AD	500	30	85	50	56	106	81	18	45	48	14
	1/2" NPTF	412.2023BD											
	3/4"- 16h UNF (ORB)	412.2023GF											
20	3/4" BSP	412.2024AE	400	41	93	60	75	156	110	25	60	65	17
	3/4" NPTF	412.2024BE											
	1 1/16"- 12h UN (ORB)	412.2024GK											
25	1" BSP	412.2025AF	350	46	115	65	80	156	115	18	65	70	14
	1" NPTF	412.2025BF											
	1 1/4" BSP	412.2025AG											
	1 1/4" NPTF	412.2025BG											
	1 1/2" BSP	412.2025AH											
32	1 1/4" BSP	412.2026AG	320	55	110	80	100	214	135	41	86	90	17
	1 1/4" NPTF	412.2026BG											
	1 5/8"- 12h UN (ORB)	412.2026GT											
40	1 1/2" BSP	412.2027AH	320	65	120	85	114	214	176	45	105	110	17
	1 1/2" NPTF	412.2027BH											
50	2" BSP	412.2028AI	320	80	140	100	129	214	191	52	115	120	17
	2" NPTF	412.2028BI											

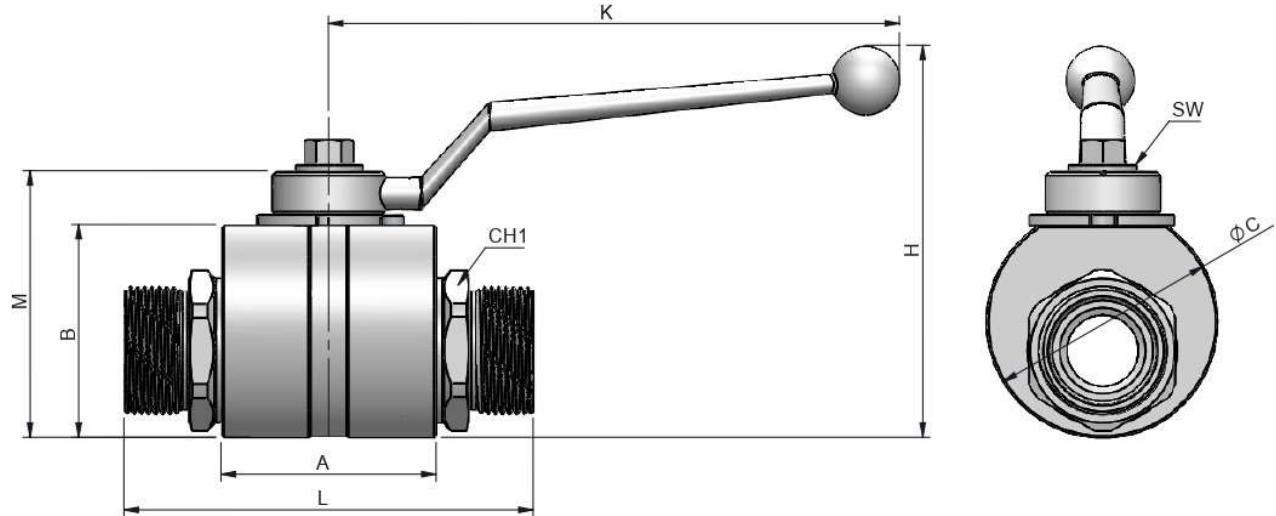
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412 SERIES V2RD

2 WAY BALL VALVES: M – M
SS316
DIN 2353 (ISO 8431-3)



(S)	Ø D	OD	REF.		CH1	L	A	M	K	H	J	B	ØC	SW
6	M12x1.5	6L	412.2021JB		500	22	75	40	46	71	13	35	38	
	M14x1.5	8L	412.2021JC											
	M16x1.5	8S	412.2021KD											
	M18x1.5	10S	412.2021KE											
10	M16x1.5	10L	412.2022JD		500	27	75	45	51	106	76	16	40	45
	M18x1.5	12L	412.2022JE											
	M22x1.5	15L	412.2022JG											
	M20x1.5	12S	412.2022KF											
	M22x1.5	14S	412.2022KG											
13	M22x1.5	15L	412.2023JG		500	30	85	50	56	156	81	18	45	48
	M26x1.5	18L	412.2023JI											
	M24x1.5	16S	412.2023KH											
	M30x2.0	20S	412.2023KJ											
20	M30x2.0	22L	412.2024JJ		400	41	93	60	75	156	110	25	60	65
	M30x2.0	20S	412.2024KJ											
	M36x2.0	25S	412.2024KK											
25	M36x2.0	28L	412.2025JK		350	46	115	65	80	156	115	18	65	70
	M42x2.0	30S	412.2025KL											
32	M45x2.0	35L	412.2026JM		320	55	110	80	100	156	135	41	86	90
	M52x2.0	38S	412.2026KN											

412-4

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412 SERIES ISO 5211

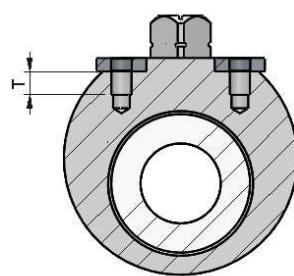
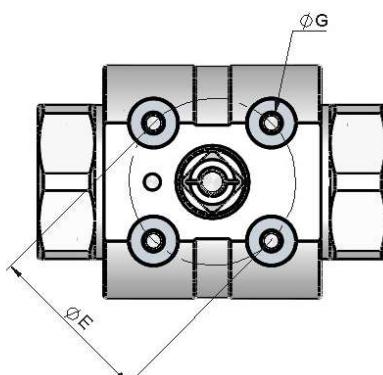
(DIRECT MOUNTING OF ACTUATORS)

Anchoring system for direct mounting part-turn actuators.
Available in our two-way valves in all sizes and threads.

Example:

412.2016 AG F03

Series	Material	Mounting H.	O-rings	Size (S)	Thread	ISO 5211
412.	1 Carbon St.	0 No	1 NBR	1 6	1/4"	-
	2 SS316		2 VITON	2 10	3/8"	F03
	3 SS303		3 EPDM	3 13	1/2"	F04
				4 20	3/4"	F05
				5 25	1"	F06
				6 32	1 1/4"	F07
				7 40	1 1/2"	
				8 50	2"	



V2RD



RD Valves are supplied with
Washer-Supplement to facilitate
actuator support.

(S)	Type	ØG	ØE	T	Max. Flange Torque (N m)
10	F03	M5	36	12	32
13	F03	M5	36	12	32
20	F04	M5	42	12	63
	F05	M6	50	12	125
25	F05	M6	50	12	125
32	F05	M6	50	12	125
40	F07	M8	70	15	250
50	F07	M8	70	15	250



412-5

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432 SERIES

V3RH

3 WAY BALL VALVES: F – F – H
CARBON STEEL
BSP / NPTF / ISO 11926 (J1926)

Thread combinations available on request and minimum quantity..

TECHNICAL SPECIFICATIONS

Operating pressure:	Up to 500 Bar
Materials:	Body: Carbon Steel EN 10277-3 O-rings: NBR / VITON / EPDM Ball seats: Polyamide 6 Handle: Zamak – 5
Sistema de Cierre:	Type L 90° / Type T 90° / Type T 180°
Available Threads:	BSP / NPTF / ISO 11926 (J1926)
Anchoring System:	Mounting Holes
Applications:	Designed for oil hydraulic (Group II- 2014/68/EU)
Interchange:	PISTER BK3 / MHA BK3 / HYDAC KHB3K

Available Sizes: 1/4" a 1"

Working Temperature (O-rings)

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Sectors: Industrial / Agricultural

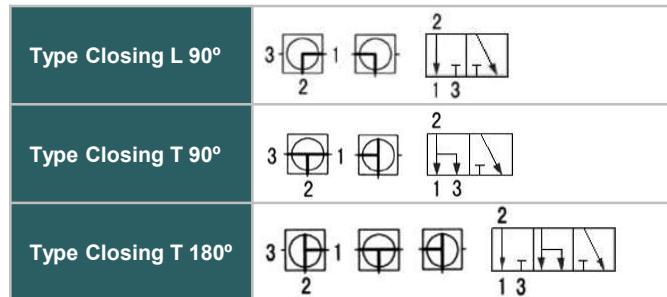


MODEL STRUCTURE

Example:

432.1113 AD

Series	Material	Mounting H.	O-rings	Size (S)	Thread
432. L 90°	1 Carbon St.	0 No	1 NBR	1 6	1/4"
434. T 90°		1 Yes	2 VITON	2 10	3/8"
436. T 180°			3 EPDM	3 13	1/2"
				4 20	3/4"
				5 25	1"



Attention: Pressure connections should always be made through the central port (2)

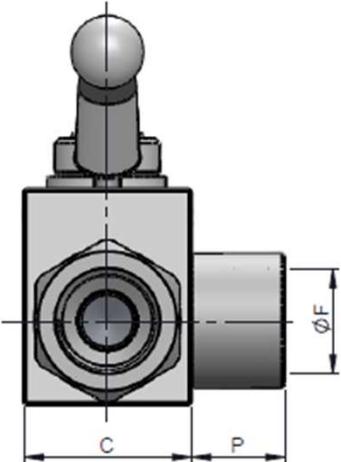
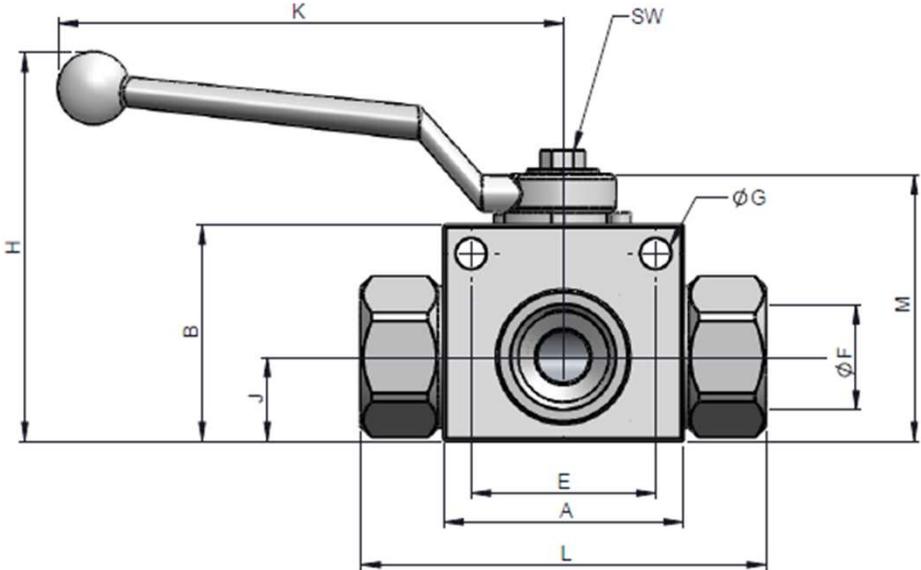
432-1

INTEVA reserves the right to make modifications to its products without prior notice. Any external or internal alterations to our products will automatically void the warranty.



432 SERIES V3RH

3 WAY BALL VALVES: F – F – F
CARBON STEEL
BSP / NPTF / ISO 11926 (J1926)



(S)	D / F	Without M.H.	With M.H.		CH1	L	A	B	M	K	H	J	C	SW	Ø G	E	P
6	1/4" BSP	432.1011AB	432.1111AB	500	22	72.50	40	35	45.50	105.50	71	13	26	9	4.50	320	16
	1/4" NPTF	432.1011BB	432.1111BB														13
	7/16"- 20h UNF(ORB)	432.1011GA	432.1111GA														14
10	3/8" BSP	432.1012AC	432.1112AC	500	27	75.50	45	40	50.50	105.50	76	16	32	9	5.20	320	15
	3/8" NPTF	432.1012BC	432.1112BC														16
	9/16" -18h UNF(ORB)	432.1012GC	432.1112GC														16
13	1/2" BSP	432.1013AD	432.1113AD	500	30	84.50	50	45	55.50	105.50	81	17.50	35	9	6.50	38.50	19.50
	1/2" NPTF	432.1013BD	432.1113BD														19.50
	3/4" - 16h UNF(ORB)	432.1013GF	432.1113GF														19.50
20	3/4" BSP	432.1014AE	432.1114AE	400	41	93.50	60	60	73	159.50	108	23	50	14	6.50	48.50	19
	3/4" NPTF	432.1014BE	432.1114BE														21
	1 1/16"-12h UN(ORB)	432.1014GK	432.1114GK														21
25	1" BSP	432.1015AF	432.1115AF	350	46	114.50	65	80	159.50	115	27.50	57	14	8.50	50.50	25	
	1" NPTF	432.1015BF	432.1115BF													25	
	1 1/4" BSP	432.1015AG	432.1115AG													31	
	1 1/4" NPTF	432.1015BG	432.1115BG													25	
	1 1/2" BSP	432.1015AH	432.1115AH													32	
	1 1/2" NPTF	432.1015BH	432.1115BH													25	
	1 5/16" -12h UN(ORB)	432.1015GO	432.1115GO													25	

432-2

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432 SERIES

V3MT

3 WAY BALL VALVES: M – M – M
CARBON STEEL
DIN 2353 (ISO 8431-3)

Thread combinations available on request and minimum quantity.

TECHNICAL SPECIFICATIONS

Operating pressure:	Up to 500 Bar
Materials:	Body: Carbon Steel EN 10277-3 O-rings: NBR / VITON / EPDM Ball seats: Polyamide 6 Handle: Zamak – 5
Sistema de Cierre:	Type L 90° / Type T 90° / Type T 180°
Available Threads:	DIN 2353 (ISO 8431-3)
Anchoring System:	Mounting Holes
Applications:	Designed for oil hydraulic (Group II- 2014/68/EU)
Interchange:	PISTER BK3 / MHA BK3 / HYDAC KHB3K

Available Sizes: 1/4" a 1"

Working Temperature (O-rings)

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Sectors: Industrial / Agricultural



MODEL STRUCTURE

Example:

432.1113 KH

Series	Material	Mounting H.	O-rings	Size (S)	Thread
432. L 90°	1 Carbon St.	0 No	1 NBR	1 6	1/4"
434. T 90°		1 Yes	2 VITON	2 10	3/8"
436. T 180°			3 EPDM	3 13	1/2"
				4 20	3/4"
				5 25	1"

Type Closing L 90°	
Type Closing T 90°	
Type Closing T 180°	

Attention: Pressure connections should always be made through the central port (2)

432-3

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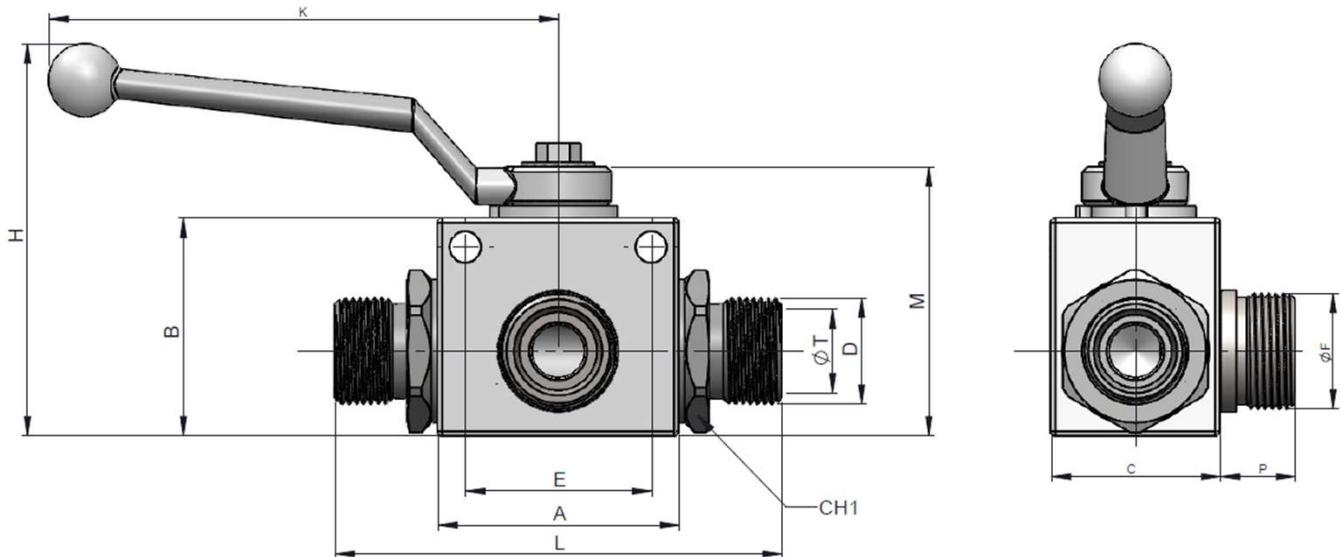




432 SERIES

V3MT

3 WAY BALL VALVES: M – M – M
CARBON STEEL
DIN 2353 (ISO 8431-3)



(S)	D	OD	Without M.H.	With M.H.		CH1	L	A	B	M	K	H	J	C	SW	Ø G	E	P
6	M12x1.5	6L	432.1011JB	432.1111JB	500	22	78.50											13
	M14x1.5	8L	432.1011JC	432.1111JC			79.50											14
	M16x1.5	10L	432.1011JD	432.1111JD			78.50	40	35	45.50	105.50	71	13	26	9	4.50	320	
	M18x1.5	8S	432.1011KD	432.1111KD			79.50											15
	M18x1.5	10S	432.1011KE	432.1111KE			79.50											24
10	M16x1.5	10L	432.1012JD	432.1112JD	500	27	77.50											14
	M18x1.5	12L	432.1012JE	432.1112JE			79.50											15
	M22x1.5	15L	432.1012JG	432.1112JG			45	40	50.50	105.50	76	16	32	9	5.20	320		
	M20x1.5	12S	432.1012KF	432.1112KF														24
	M22x1.5	14S	432.1012KG	432.1112KG														
13	M22x1.5	15L	432.1013JG	432.1113JG	30	92.50												
	M26x1.5	18L	432.1013JI	432.1113JI			50	45	55.50	105.50	81	17.50	35	9	6.50	38.50	15.50	
	M24x1.5	16S	432.1013KH	432.1113KH														
	M30x2	20S	432.1013KJ	432.1113KJ			98.50											
20	M30x2	22L	432.1014JJ	432.1114JJ	400	41	108.50											
	M30x2	20S	432.1014KJ	432.1114KJ			114.50	60	58	73	159.50	108	23	50	14	6.50	48.50	17
	M36x2	25S	432.1014KK	432.1114KK			114.50											
25	M36x2	28L	432.1015JK	432.1115JK	350	46	128.50	65	65	80	159.50	115	27.50	57	14	8.50	50.50	25
	M42x2	30S	432.1015KL	432.1115KL														

432-4

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433 SERIES

V3RH

3 WAY BALL VALVES: H – M – H
CARBON STEEL
BSP

Thread combinations available on request and minimum quantity.

TECHNICAL SPECIFICATIONS

Operating pressure:	Up to 500 Bar
Materials:	Body: Carbon Steel EN 10277-3 O-rings: NBR / VITON / EPDM Ball seats: Polyamide 6 Handle: Zamak – 5
Sistema de Cierre:	Type L 90° / Type T 90° / Type T 180°
Available Threads:	BSP
Anchoring System:	Mounting Holes
Applications:	Designed for oil hydraulic (Group II- 2014/68/EU)
Interchange:	PISTER BK3 / MHA BK3 / HYDAC KHB3K

Available Sizes: 1/4" a 1"

Working Temperature (O-rings)

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Sectors: Industrial / Agricultural



MODEL STRUCTURE

Example:

433.1115 AG

Series	Material	Mounting H.	O-rings	Size (S)	Thread
433. L 90°	1 Carbon St.	0 No	1 NBR	1 6	1/4"
435. T 90°		1 Yes	2 VITON	2 10	3/8"
437. T 180°			3 EPDM	3 13	1/2"
				4 20	3/4"
				5 25	1"

Type Closing L 90°	
Type Closing T 90°	
Type Closing T 180°	

Attention: Pressure connections should always be made through the central port (2)

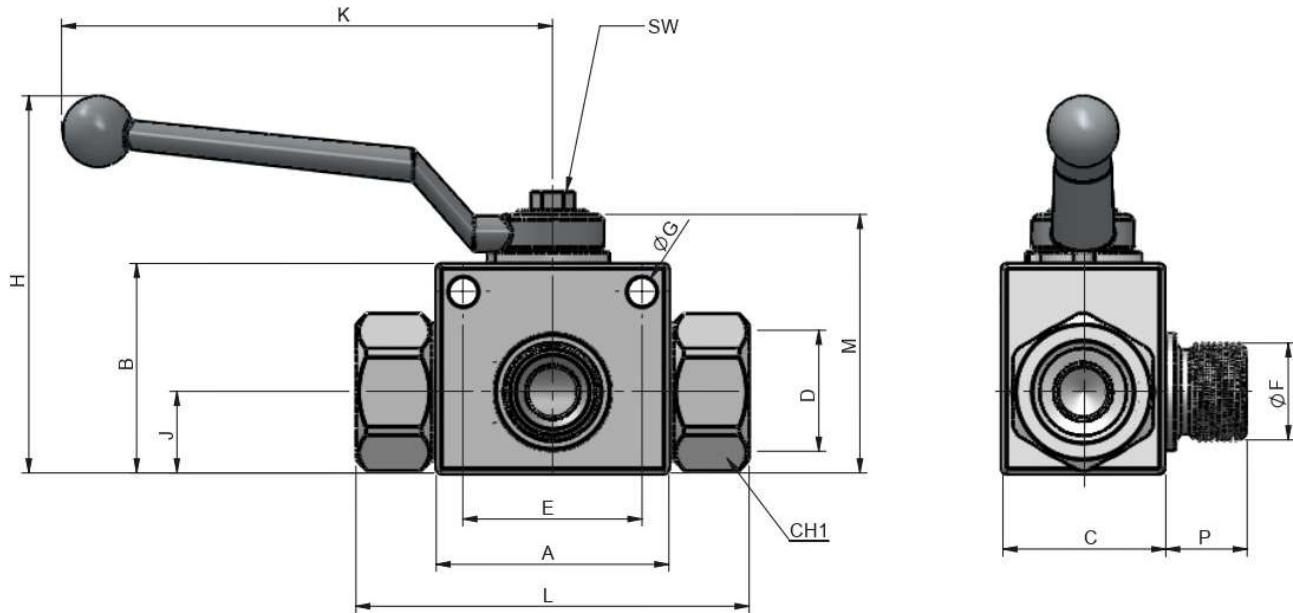
433-1

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433 SERIES V3RH

3 WAY BALL VALVES: F – M – F
CARBON STEEL
BSP



(S)	D / F	Without M.H.	With M.H.		CH1	L	A	B	M	K	H	J	C	SW	G	E	P
6	1/4" BSP	433.1011AB	433.1111AB	500	22	72.50	40	35	45.50	105.50	71	13	26	9	4.50	320	13
10	3/8" BSP	433.1012AC	433.1112AC		27	75.50	45	40	50.50	105.50	76	16	32	9	5.20	320	15
13	1/2" BSP	433.1013AB	433.1113AB		30	84.50	50	45	55.50	105.50	81	17.50	35	9	6.50	38.50	17.50
20	3/4" BSP	433.1014AE	433.1114AE	400	41	93.50	60	60	73	159.50	108	23	50	14	6.50	48.50	19
25	1" BSP	433.1015AF	433.1115AF	350	46	114.50											25
	1 1/4" BSP	433.1015AG	433.1115AG		50	136.50	65	65	80	159.50	115	27.50	57	14	8.50	50.50	28
	1 1/2" BSP	433.1015AH	433.1115AH		55	146.50											

433-2

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452 SERIES V2CR

2 WAY BALL VALVES
FOR PANEL MOUNTING



TECHNICAL SPECIFICATIONS

Features: With bulkhead thread and nut for panel mounting.

Operating pressure: Up to 500 Bar

Materials:
Body: Carbon Steel EN 10277-3
O-rings: NBR / VITON / EPDM
Ball seats: Polyamide 6
Handle: Zamak – 5

Available Threads: BSP / NPTF / ISO 11926 (J1926)
DIN 2353 (ISO 8434-1)

Anchoring System: Mounting Holes

Applications: Designed for oil hydraulic (Group II- 2014/68/EU)

Interchange: INTEVA ESTÁNDAR

Available Sizes: 1/4" a 1"

Working Temperature (O-rings)

	NBR	Viton	EPDM
	+100°C	+200°C	+150°C
	-30°C	-10°C	-40°C

Sectors: Industrial / Agricultural



MODEL STRUCTURE

Example:

452.1012 AC

Series	Material	Mounting H.	O-rings	Size (S)	Thread
452.	1 Carbon St.	0 No	1 NBR	1 6	1/4"
		1 Yes	2 VITON	2 10	3/8"
			3 EPDM	3 13	1/2"
				4 20	3/4"
				5 25	1"

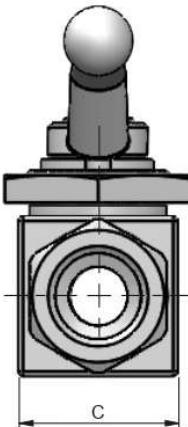
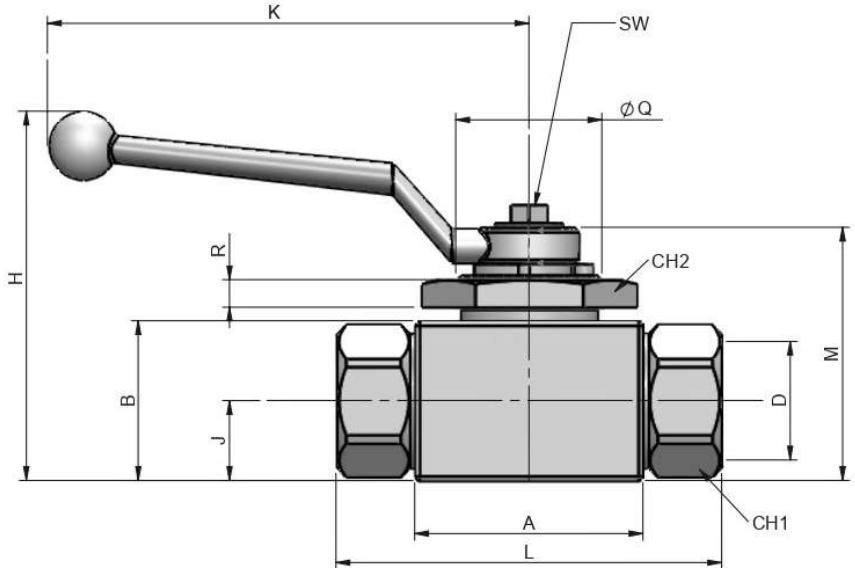
452-1

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452 SERIES V2CR

2 WAY BALL VALVES
BSP / NPTF / ISO 11926 (J1926)
DIN 2353 (ISO 8434-1)



(S)	D	REF.	CH1	CH2	L	A	B	M	K	H	J	C	SW	R	Ø Q
6	1/4" BSP	452.1011AB	500	22	72.60	40	35	45.50	105.50	71	13	26	8.90	6	M32x1.5
	1/4" NPTF	452.1011BB													
	7/16"- 20h UNF (ORB)	452.1011GA													
	M12x1.5 6L	452.1011JB													
	M14x1.5 8L	452.1011JC													
	M16x1.5 10L	452.1011JD													
10	M16x1.5 8S	452.1011KD													
	3/8" BSP	452.1012AC													
	3/8" NPTF	452.1012BC													
	9/16"- 18h UNF (ORB)	452.1012GC													
	M16x1.5 10L	452.1012JD													
	M18x1.5 12L	452.1012JE													
	M22x1.5 15L	452.1012JG													
13	M20x1.5 12S	452.1012KF	400	27	75.40	45	40	50.50	105.50	76	16	32	8.90	6	M32x1.5
	M22x1.5 14S	452.1012KG													
	1/2" BSP	452.1013AD													
	1/2" NPTF	452.1013BD													
	3/4"- 16h UNF (ORB)	452.1013GF													
13	M22x1.5 15L	452.1013JG	30	41	84.50	50	45	55.50	105.50	81	17.50	35	8.90	6	M32x1.5
	M26x1.5 18L	452.1013JI													
	M24x1.5 16S	452.1013KH													
	M30x2 20S	452.1013KJ													
20	3/4" BSP	452.1014AE	41	50	93.40	60	58	73	159.50	108	23	50	13.90	6	M45x1.5
	3/4" NPTF	452.1014BE													
	1 1/16"- 12h UN (ORB)	452.1014GK													
	M30x2 22L	452.1014JJ													
25	M30x2 20S	452.1014KJ	350	46	114.50	65	65	80	159.50	115	27.50	57	13.90	6	M45x1.5
	M36x2 25S	452.1014KK													
	1" BSP	452.1015AF													
	1" NPTF	452.1015BF													
25	1 5/16"- 12h UN (ORB)	452.1015GO	46	50	113.50	65	65	80	159.50	115	27.50	57	13.90	6	M45x1.5
	M36x2 28L	452.1015JK													

452-2

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453 SERIES

V3CR

3 WAY BALL VALVES: F – M – F
BSP

TECHNICAL SPECIFICATIONS

Features: With bulkhead thread and nut for panel mounting.



Operating pressure: Up to 500 Bar

Available Sizes: 1/4" a 1"

Materials:	Body:	Carbon Steel EN 10277-3
	O-rings:	NBR / VITON / EPDM
	Ball seats:	Polyamide 6
	Handle:	Zamak – 5

Working Temperature (O-rings)

NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Available Threads: BSP

Sectors: Industrial / Agricultural

Anchoring System: Mounting Holes



Applications: Designed for oil hydraulic (Group II- 2014/68/EU)

Interchange: STANDARD INTEVA

MODEL STRUCTURE

Example:

453.1014 AE

Series	Material	Mounting H.	O-rings	Size (S)	Thread
453. L 90°	1 Carbon St.	0 No	1 NBR	1 6	1/4"
455. T 90°		1 Yes	2 VITON	2 10	3/8"
456. T 180°			3 EPDM	3 13	1/2"
				4 20	3/4"
				5 25	1"

Type Closing L 90°	
Type Closing T 90°	
Type Closing T 180°	

Attention: Pressure connections should always be made through the central port (2)

453–1

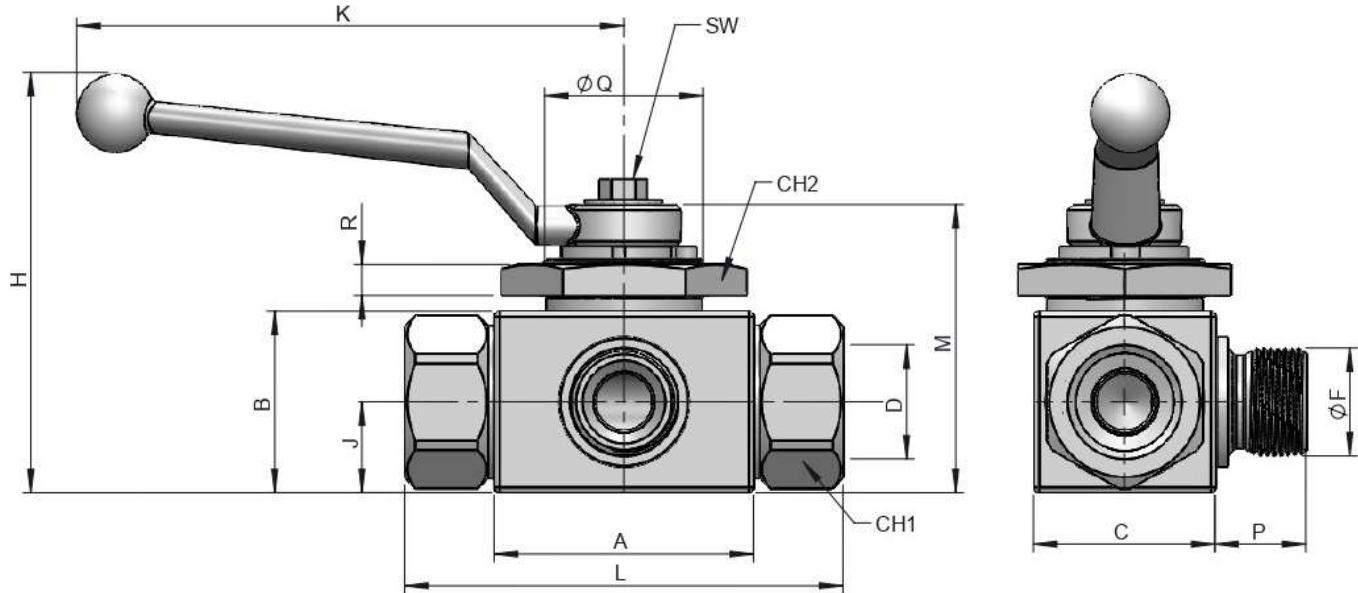
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453 SERIES

V3CR

3 WAY BALL VALVES: F – M – F
BSP



(S)	D	REF.		CH1	CH2	L	A	B	M	K	H	J	C	SW	R	Q	P	
6	1/4" BSP	453.1011AB		22	30	72.60	40	35	45.50		71	13	26			M32x1.5	13	
10	3/8" BSP	453.1012AC	500	27		75.50	45	40	50.50	105.50	76	16	32	8.90		M32x1.5	15	
13	1/2" BSP	453.1013AD		30		84.50	50	45	55.50		81	17.50	35		6		17.5	
20	3/4" BSP	453.1014AE	400	41	50	93.50	60	58	73	159.50	108	23	50	13.90		M45x1.5	19	
25	1" BSP	453.1015AF	350	46	50	114.50	65	65	80		115	27.50	57					25

453-2

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470 SERIES

EK2

FLOW DIVERTER
2 WAY

Designed exclusively as flow diverters.

TECHNICAL SPECIFICATIONS

Operating pressure:	Up to 500 Bar
Materials:	Body: Carbon Steel EN 10277-3 O-rings: NBR / VITON / EPDM Ball seats: Without* Handle: Steel
Available Threads:	BSP / SPECIAL METRIC THREAD
Anchoring System:	*
Applications:	Designed for oil hydraulic (Group II- 2014/68/EU)
Interchange:	*

Available Sizes: 3/8"

Working Temperature (O-rings)

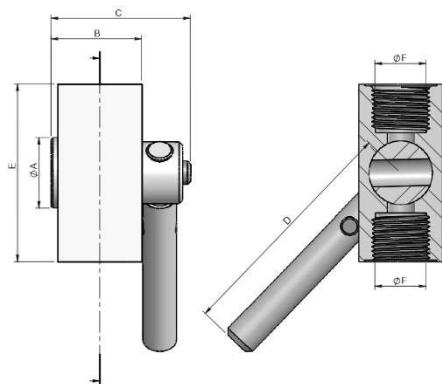
NBR	Viton	EPDM
+100°C	+200°C	+150°C
-30°C	-10°C	-40°C

Sectors: Industrial / Agricultural

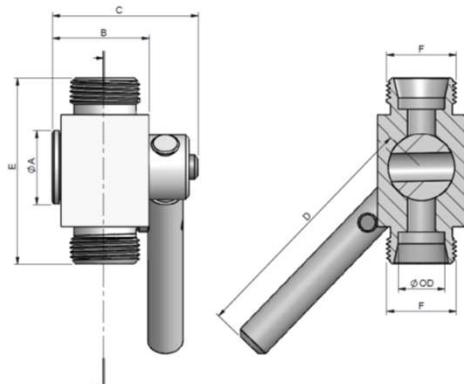


Closing System: Metal to Metal (without O-ring) (Not 100% sealant)

MODEL STRUCTURE / DIMENSIONS



(S)	Ø F	REF.	Ø A	B	C	D	E
10	3/8" BSP	470.1012AC	250	21	27	41.5	70.5



(S)	Ø F	REF.	Ø A	B	C	D	E	OD
10	M20x1.5	470.1012KFA	250	21	27	41.5	70.5	53



470-1

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471 SERIES EK3

FLOW DIVERTER
3 WAY

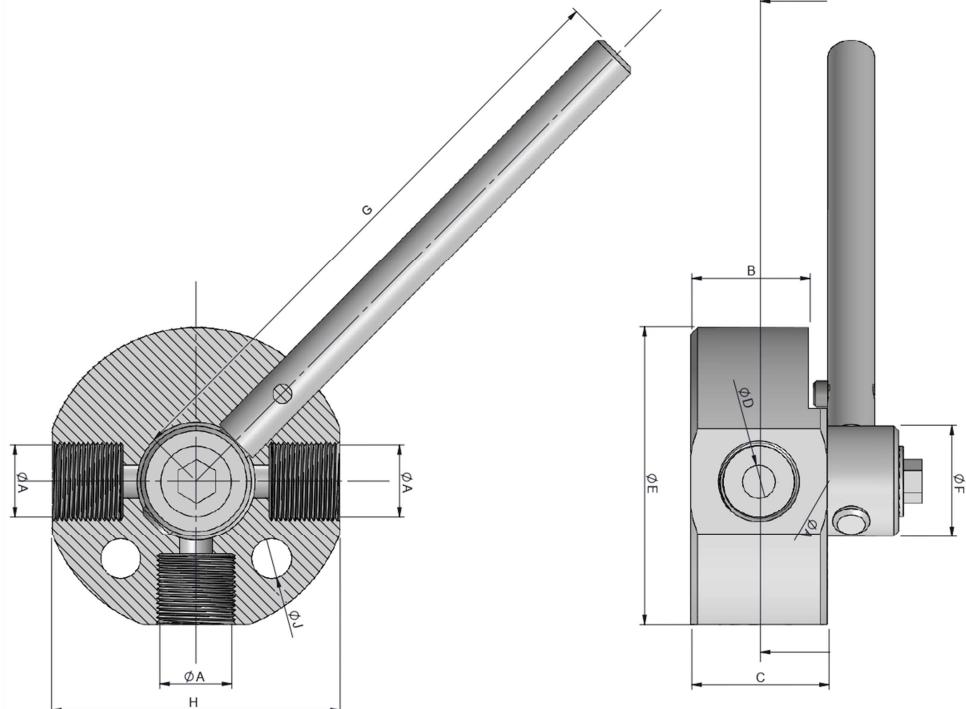
Designed exclusively as flow diverters.

TECHNICAL SPECIFICATIONS

Operating pressure:	Up to 190 Bar	Available Sizes:	3/8"	
Materials:	Body: Carbon Steel EN 10277-3 O-rings: NBR / VITON / EPDM Ball seats: Without* Handle: Steel	Working Temperature (O-rings)		
Available Threads:	BSP	NBR	Viton	EPDM
ANCHORING SYSTEM:	Included	+100°C -30°C	+200°C -10°C	+150°C -40°C
Applications:	Designed for oil hydraulic (Group II- 2014/68/EU)	Sectors: Industrial / Agricultural		
Interchange:	*			

Closing System: Metal to Metal (without O-ring) (Not 100% sealant)

MODEL STRUCTURE / DIMENSIONS



(S)	F	REF.		Ø A	B	C	Ø D	Ø E	Ø F	G	H	I	Ø J	
10	3/8" BSP	471.1112AC		190	15.20	25	29	7	65	26.50	127.25	61	15.50	8.50

471-1

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472 SERIES VPN

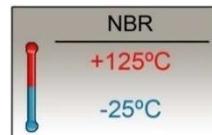
DRIVE OF PNEUMATIC
SYSTEMS ON TRUCKS

TECHNICAL SPECIFICATIONS

Operating pressure:	Up to 15 Bar
Materials:	
Body:	Aluminum
O-rings:	NBR
Componentes:	Carbon steel EN 10277-3
Handle:	Carbon steel EN 10277-3
Available Threads:	BSP *
Anchoring System:	Without mounting holes
Applications:	Designed for Air (Group II- 2014/68/EU)
Interchange:	*

Available Sizes: 1/4"

Working Temperature (O-rings)

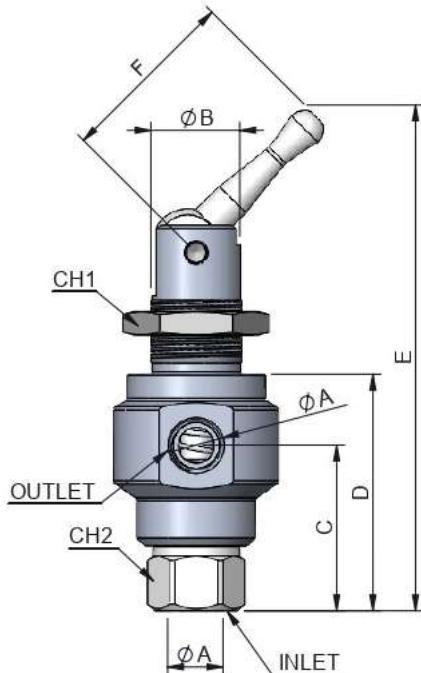


Sectors: Transport



* Others on request

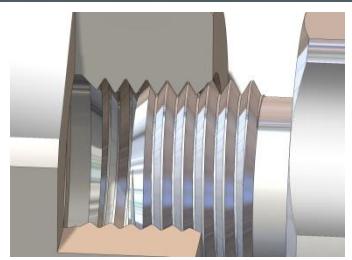
MODEL STRUCTURE



(S)	Ø A	REF.		Ø B	C	D	E	F	CH2	CH1
6	1/4" BSP	472.611AB		15	25	43	60.50	125	46	22

472-1

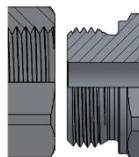
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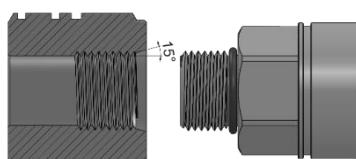
999 SERIES THREADS

ISO 261 METRIC THREADS - PORT / CONNECTION

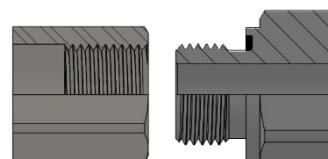
DIN 3852-1 B / ISO 9974



ISO 6149-2 (ORB)



ISO 9974-2 (E) / DIN 3852-11

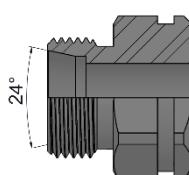


THREAD	FEMALE	MALE
M8X1	NA	PA
M10X1	NB	PB
M12X1.5	NC	PC
M14X1.5	ND	PD
M16X1.5	NE	PE
M18X1.5	NF	PF
M20X1.5	NG	PG
M22X1.5	NH	PH
M24X1.5	NI	PI
M26X1.5	NO	PO
M27X2	-	-
M30X2	NJ	PJ
M33X2	NK	PK
M42X2	NL	PL
M48X2	NM	PM
M60X2	-	-

THREAD	FEMALE	MALE
M8X1	EA	OA
M10X1	EC	OC
M12X1.5	EE	OE
M14X1.5	EF	OF
M16X1.5	EG	OG
M18X1.5	EH	OH
M20X1.5	EK	OK
M22X1.5	EM	OM
M24X1.5	-	-
M26X1.5	-	-
M27X2	-	-
M30X2	EJ	OJ
M33X2	EQ	OQ
M42X2	ET	OT
M48X2	EU	OU
M60X2	EV	OV

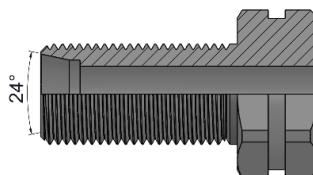
THREAD	FEMALE	MALE
M8X1	NA	QA
M10X1	NB	QB
M12X1.5	NC	QC
M14X1.5	ND	QD
M16X1.5	NE	QE
M18X1.5	NF	QF
M20X1.5	NG	QG
M22X1.5	NH	QH
M24X1.5	-	-
M26X1.5	NO	QO
M27X2	-	-
M30X2	NJ	QJ
M33X2	NK	QK
M42X2	NL	QL
M48X2	NM	QM
M60X2	-	-

ISO 8434-1 / DIN 3861



THREAD	LIGHT SERIES		HEAVY SERIES	
M12X1.5	6L	JB	-	-
M14X1.5	8L	JC	-	-
M16X1.5	10L	JD	8S	KD
M18X1.5	12L	JE	10S	KE
M20X1.5	-	-	12S	KF
M22X1.5	15L	JG	14S	KG
M24X1.5	-	-	16S	KH
M26X1.5	18L	JI	-	-
M30X2	22L	JJ	20S	KJ
M36X2	28L	JK	25S	KK
M42X2	-	-	30S	KL
M45X2	35L	JM	-	-
M52X2	42L	JN	38S	KN

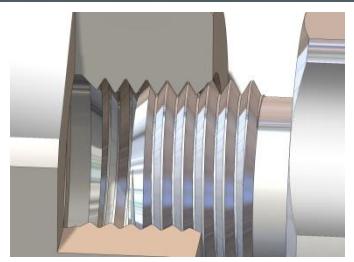
ISO 8434-1 / DIN 3861



THREAD	LIGHT SERIES		HEAVY SERIES	
M12X1.5	6L	LB	-	-
M14X1.5	8L	LC	-	-
M16X1.5	10L	LD	8S	MD
M18X1.5	12L	LE	10S	ME
M20X1.5	-	-	12S	MF
M22X1.5	15L	LG	14S	MG
M24X1.5	-	-	16S	MH
M26X1.5	18L	LI	-	-
M30X2	22L	LJ	20S	MJ
M36X2	28L	LK	25S	MK
M42X2	-	-	30S	ML
M45X2	35L	LM	-	-
M52X2	-	-	38S	MN

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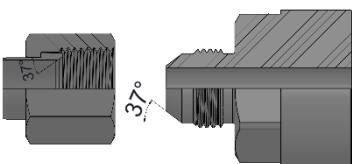
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999 SERIES THREADS

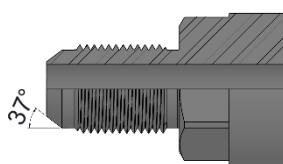
UNIFIED SCREW THREADS ASME B1.1 – PORT / CONNECTION

SAE 37° (JIC) /
SAE J514 / ISO 8434-2



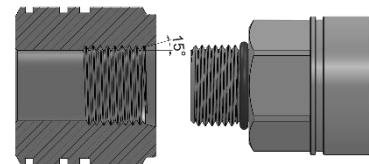
THREAD	FEMALE	MALE
3/8"- 24h UNF	UA	YA
7/16"- 20h UNF	UB	YB
1/2"- 20h UNF	UC	YC
9/16"- 18h UNF	UD	YD
11/16"- 16h UN	UE	YE
3/4"- 16h UNF	UF	YF
13/16"- 16h UN	UG	YG
7/8"- 14h UNF	UH	YH
1" - 14 UNS	-	-
1 1/16"- 12h UN	UK	YK
1 3/16"- 12h UN	UM	YM
1 5/16"- 12h UN	UO	YO
1 7/16"- 12h UN	UQ	YQ
1 5/8"- 12h UN	UT	YT
1 11/16"- 12h UN	UU	YU
1 7/8"- 12h UN	UV	YV

SAE 37° (JIC) / SAE J514 / ISO 8434-2
BULKHEAD



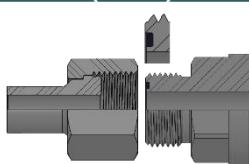
THREAD	FEMALE	MALE
3/8"- 24h UNF	-	YAP
7/16"- 20h UNF	-	YBP
1/2"- 20h UNF		YCP
9/16"- 18h UNF	-	YDP
11/16"- 16h UN	-	YEP
3/4"- 16h UNF	-	YFP
13/16"- 16h UN	-	YGP
7/8"- 14h UNF	-	YHP
1" - 14 UNS	-	-
1 1/16"- 12h UN	-	YKP
1 3/16"- 12h UN	-	YMP
1 5/16"- 12h UN	-	YOP
1 7/16"- 12h UN	-	YQP
1 5/8"- 12h UN	-	YTP
1 11/16"- 12h UN	-	YUP
1 7/8"- 12h UN	-	YVP

SAE J1926 / ISO 11926
(ORB)



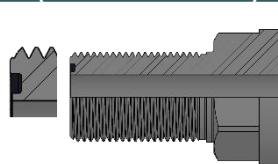
THREAD	FEMALE SAE J1926-1	MALE SAE J1926-2
3/8"- 24h UNF	GA	HA
7/16"- 20h UNF	GB	HB
1/2"- 20h UNF	GC	HC
9/16"- 18h UNF	GD	HD
11/16"- 16h UN	GE	HE
3/4"- 16h UNF	GF	HF
13/16"- 16h UN	GG	HG
7/8"- 14h UNF	GH	HH
1" - 14 UNS	-	-
1 1/16"- 12h UN	GK	HK
1 3/16"- 12h UN	GM	HM
1 5/16"- 12h UN	GO	HO
1 7/16"- 12h UN	GQ	HQ
1 5/8"- 12h UN	GT	HT
1 11/16"- 12h UN	GU	HU
1 7/8"- 12h UN	GV	HV

SAE J1453 / ISO 8434-3
(ORFS)



THREAD	FEMALE	MALE
3/8"- 24h UNF	-	-
7/16"- 20h UNF	-	-
1/2"- 20h UNF	-	-
9/16"- 18h UNF	VD	ZD
11/16"- 16h UN	VE	ZE
3/4"- 16h UNF		
13/16"- 16h UN	VG	ZG
7/8"- 14h UNF		
1" - 14 UNS	VI	ZI
1 1/16"- 12h UN	-	-
1 3/16"- 12h UN	VM	ZM
1 5/16"- 12h UN	VO	ZO
1 7/16"- 12h UN	VQ	ZQ
1 5/8"- 12h UN	-	-
1 11/16"- 12h UN	VU	ZU
1 7/8"- 12h UN	-	-

SAE J1453 / ISO 8434-3
(ORFS BULKHEAD)



THREAD	FEMALE	MALE
3/8"- 24h UNF	-	ZAP
7/16"- 20h UNF	-	ZBP
1/2"- 20h UNF	-	ZCP
9/16"- 18h UNF	-	ZDP
11/16"- 16h UN	-	ZEP
3/4"- 16h UNF	-	ZFP
13/16"- 16h UN	-	ZGP
7/8"- 14h UNF	-	ZHP
1" - 14 UNS	-	ZIP
1 1/16"- 12h UN	-	ZKP
1 3/16"- 12h UN	-	ZMP
1 5/16"- 12h UN	-	ZOP
1 7/16"- 12h UN	-	ZQP
1 5/8"- 12h UN	-	ZTP
1 11/16"- 12h UN	-	ZUP
1 7/8"- 12h UN	-	ZVP

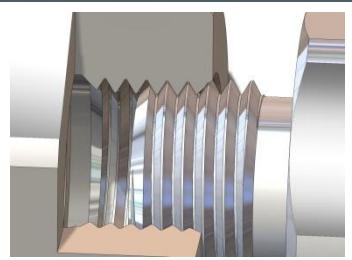
SPECIALS

THREAD	FEMALE	MALE
3/8"- 24h UNF	VA	ZA
7/16"- 20h UNF	VB	ZB
1/2"- 20h UNF	VC	ZC
3/4"- 16h UNF	VF	ZF
7/8"- 14h UNF	VH	ZH
1 1/16"- 12h UN	VK	ZK
1 5/8"- 12h UN	VT	ZT
1 11/16"- 12h UN	VV	ZV

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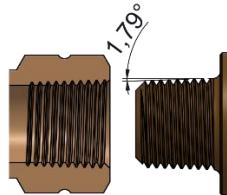




999 SERIES THREADS

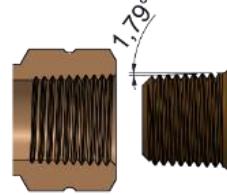
TAPERED THREAD

NPTF
ASME B1.20.3



THREAD	FEMALE	MALE
1/8"	BA	BL
1/4"	BB	BM
3/8"	BC	BN
1/2"	BD	BO
3/4"	BE	BP
1"	BF	BQ
1 1/4"	BG	BR
1 1/2"	BH	BS
2"	BI	BT
2 1/2"	BJ	BU
3"	BK	BV

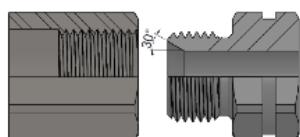
BSPT
ISO 7/1 (DIN 3852-2 C)



THREAD	FEMALE	MALE
1/8"	DA	DL
1/4"	DB	DM
3/8"	DC	DN
1/2"	DD	DO
3/4"	DE	DP
1"	DF	DQ
1 1/4"	DG	DR
1 1/2"	DH	DS
2"	DI	DT
2 1/2"	-	-
3"	-	-

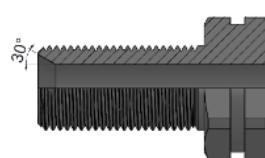
ISO 228/1 BSP THREADS

BSPP / BS5200



THREAD	FEMALE	MALE
1/8"	AA	AL
1/4"	AB	AM
3/8"	AC	AN
1/2"	AD	AO
3/4"	AE	AP
1"	AF	AQ
1 1/4"	AG	AR
1 1/2"	AH	AS
2"	AI	AT
2 1/2"	AJ	AU
3"	AK	AV

**BSPP / BS5200
BULKHEAD**



THREAD	FEMALE	MALE
1/8"	-	CL
1/4"	-	CM
3/8"	-	CN
1/2"	-	CO
3/4"	-	CP
1"	-	CQ
1 1/4"	-	CR
1 1/2"	-	CS
2"	-	CT
2 1/2"	-	-
3"	-	-

SPECIALS

THREAD	
M20X1.5 (13.5)	KFA
M20X1.5 (CONO 60°)	KFB
M16X1.5 BULKHEAD M20X1.5	JDA
M22X1.5 PROLOGADA	JGA
M22X1.5 15L LONG. HEX 35MM	JGB
M22X1.5 BULKHEAD PROLOGADA	LGA
3/4" 16h UNF (SIN CONO 37°)	HFA
3/4" 16h UNF (CILINDRICA)	GFA

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