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Fluid connector manufacturer

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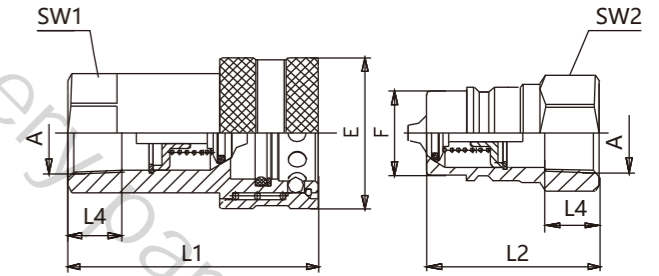
Fluid-tech FM-IA01

IA is the series of quick couplings with poppet sealing system, interchangeable according to the international standard.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



ISO 7241-A



TECHNICAL SPECIFICATIONS AND OPTIONS



- Interchange
ISO 7241 A



- Valving style
Poppet



- Connection Under Pressure
Not allowed



- Material / Treatment
Carbon steel, Cr3



- Connection system
Single acting sleeve



- Sealing
Nitrile NBR/others on request



- Available sizes
From 1/4" to 2"



- Operating pressure
Up to 350 bar



- Locking mechanism
Locking ball



- Temperature
-20°C / +100°C



- Flow rate
Up to 1000 l/min



- Available threads
NPT, BSP

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM	ISO				Male(plug)	Female(socket)	Coupled	
06	6.3	35	12	17	126	130	126	0.5
10	10	30	23	46	100	110	100	1.1
12	12.5	25	45	90	80	80	80	1.88
20	20	25	106	190	90	100	90	8
25	25	23	189	280	80	80	80	10
31	31.5	23	333	480	80	80	80	20
40	40	18	453	750	64	64	64	32
50	50	13	907	1000	40	40	40	85

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	50	35.5	13	19	19	26	11.8	BSP14" NPT14"	IA01-06SF-BSP14 IA01-06SF-NPT14	IA01-06PF-BSP14 IA01-06PF-NPT14
10	10	56	38	14	22	22	31.5	17.3	BSP3/8" NPT3/8"	IA01-10SF-BSP38 IA01-10SF-NPT38	IA01-10PF-BSP38 IA01-10PF-NPT38
12	12.5	66	45	16	27	27	38.5	20.5	BSP1/2" NPT1/2"	IA01-12SF-BSP12 IA01-12SF-NPT12	IA01-12PF-BSP12 IA01-12PF-NPT12
20	20	80	54.2	18	34	34	48	29.1	BSP3/4" NPT3/4"	IA01-20SF-BSP34 IA01-20SF-NPT34	IA01-20PF-BSP34 IA01-20PF-NPT34
25	25	93	62.5	21	41	41	55	34.3	BSP1" NPT1"	IA01-25SF-BSP1 IA01-25SF-NPT1	IA01-25PF-BSP1 IA01-25PF-NPT1
31	31.5	112	70	25	50	50	69	45	BSP1-1/4" NPT1-1/4"	IA01-31SF-BSP114 IA01-31SF-NPT114	IA01-31PF-BSP114 IA01-31PF-NPT114
40	40	127.5	78	25.5	60	60	84	55	BSP1-1/2" NPT1-1/2"	IA01-40SF-BSP112 IA01-40SF-NPT112	IA01-40PF-BSP112 IA01-40PF-NPT112
50	50	158	98	26	75	75	99	65	BSP2" NPT2"	IA01-50SF-BSP2 IA01-50SF-NPT2	IA01-50PF-BSP2 IA01-50PF-NPT2

APPLICATIONS



The IA01 series brings to the industry a proven design for use on construction equipment, forestry equipment, agricultural machinery, oil tools, oil equipment, steel mill machinery, and other demanding hydraulic applications.

They can be found anywhere where the fluid transfer lines need to be connected and disconnected for operation or maintenance of equipment.

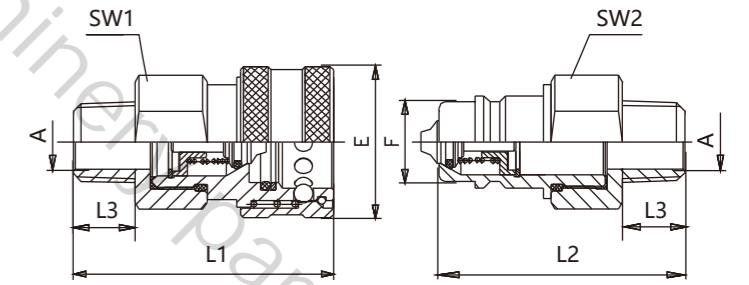
Fluid-tech FM-IA02

IA is the series of quick couplings with poppet sealing system, interchangeable according to the international standard.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



ISO 7241-A



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
BSPT, NPT, BSP

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	17	126	130	126	0.5
10	10	30	23	46	100	110	100	1.1
12	12.5	25	45	90	80	80	80	1.88
20	20	25	106	190	90	100	90	8
25	25	23	189	280	80	80	80	10

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	53.5	46	13	22	22	26	11.8	BSP 1/4" NPT 1/4" BSPT 1/4"	IA02-06SM-BSP14 IA02-06SM-NPT14 IA02-06SM-PT14	IA02-06PM-BSP14 IA01-06PM-NPT14 IA02-06PM-PT14
10	10	57.5	53	13	27	27	31.5	17.3	BSP 3/8" NPT 3/8" BSPT 3/8"	IA02-10SM-BSP38 IA02-10SM-NPT38 IA02-10SM-PT38	IA02-10PM-BSP38 IA02-10PM-NPT38 IA02-10PM-PT38
12	12.5	66.5	62.5	16	27	27	38	20.5	BSP 1/2" NPT 1/2" BSPT 1/2"	IA02-12SM-BSP12 IA02-12SM-NPT12 IA02-12SM-PT12	IA02-12PM-BSP12 IA02-12PM-NPT12 IA02-12PM-PT12
									M18*1.5" M20*1.5" M22*1.5"	IA02-12SM-M1815 IA02-12SM-M2015 IA02-12SM-M2215	IA02-12PM-M1815 IA02-12PM-M2015 IA02-12PM-M2215
20	20	81.5	66.5	18	36	36	48	29.1	BSP 3/4" NPT 3/4" BSPT 3/4"	IA02-20SM-BSP34 IA02-20SM-NPT34 IA02-20SM-PT34	IA02-20PM-BSP34 IA02-20PM-NPT34 IA02-20PM-PT34
25	25	96	79	21	41	41	56	34.3	BSP 1" NPT 1" BSPT 1"	IA02-25SM-BSP1 IA02-25SM-NPT1 IA02-25SM-PT1	IA02-25PM-BSP1 IA02-25PM-NPT1 IA02-25PM-PT1

APPLICATIONS



The IA02 series couplings are the ideal choice where a tough, durable product of superior quality is required. They are perfectly suited to agricultural and industrial applications.

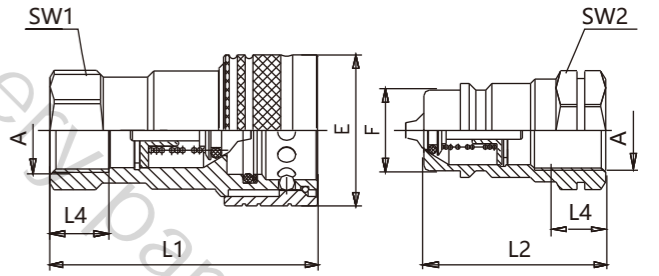
Fluid-tech FM-IA03

IA is the series of quick couplings with poppet sealing system, interchangeable according to the international standard.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



ISO 7241-A



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 2"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 1000 l/min
- Available threads**
BSPT, SAE, NPT, BSP

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	17	150	170	140	0.5
10	10	35	23	46	140	150	150	1.9
12	12.5	25	45	90	100	140	120	2.7
20	20	25	106	190	90	150	100	9.3
25	25	23	189	280	130	130	120	16
31	31.5	20	288	480	110	85	100	30
40	40	19	379	757	80	80	82	54
50	50	16	757	1000	65	96	100	120

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	50	35.5	13	19	19	26	11.8	BSP 1/4" NPT 1/4" BSPT 1/4"	IA03-06SF-BSP14	IA03-06PF-BSP14
										IA03-06SF-NPT14	IA03-06PF-NPT14
										IA03-06SF-PT14	IA03-06PF-PT14
10	10	58	40	14	22	22	31.5	17.3	BSP 3/8" NPT 3/8" BSPT 3/8"	IA03-10SF-BSP38	IA03-10PF-BSP38
										IA03-10SF-NPT38	IA03-10PF-NPT38
										IA03-10SF-PT38	IA03-10PF-PT38
12	12.5	68	46	16	27	27	38.5	20.5	BSP 1/2" NPT 1/2" BSPT 1/2" UNF 3/4" UNF 7/8" M18x1.5 M20x1.5 M22x1.5	IA03-12SF-BSP12	IA03-12PF-BSP12
										IA03-12SF-NPT12	IA03-12PF-NPT12
										IA03-12SF-PT12	IA03-12PF-PT12
										IA03-12SF-UNF34	IA03-12PF-UNF34
										IA03-12SF-UNF78	IA03-12PF-UNF78
										IA03-12SF-M1815	IA03-12PF-M1815
IA03-12SF-M2015	IA03-12PF-M2015										
IA03-12SF-M2215	IA03-12PF-M2215										
20	20	84.5	57	18	34	34	48	29.1	BSP 3/4" NPT 3/4" BSPT 3/4" UNF1-1/16"	IA03-20SF-BSP34	IA03-20PF-BSP34
										IA03-20SF-NPT34	IA03-20PF-NPT34
										IA03-20SF-PT34	IA03-20PF-PT34
										IA03-20SF-UNF1116	IA03-20PF-UNF1116
25	25	99	65.5	21	41	41	54.3	34.3	BSP 1" NPT 1" BSPT 1" UNF 1-5/16"	IA03-25SF-BSP1	IA03-25PF-BSP1
										IA03-25SF-NPT1	IA03-25PF-NPT1
										IA03-25SF-PT1	IA03-25PF-PT1
										IA03-25SF-UNF1516	IA03-25PF-UNF1516
31	31.5	112	70	25	50	50	69	45	BSP 1-1/4" NPT 1-1/4" BSPT 1-1/4"	IA03-31SF-BSP114	IA03-31PF-BSP114
										IA03-31SF-NPT114	IA03-31PF-NPT114
										IA03-31SF-PT114	IA03-31PF-PT114
40	40	127.5	78	25.5	60	60	84	55	BSP 1-1/2" NPT 1-1/2" BSPT 1-1/2"	IA03-40SF-BSP112	IA03-40PF-BSP112
										IA03-40SF-NPT112	IA03-40PF-NPT112
										IA03-40SF-PT112	IA03-40PF-PT112
										IA03-40SF-PT112	IA03-40PF-PT112
50	50	158	98	26	75	75	99	65	BSP 2" NPT 2" BSPT 2"	IA03-50SF-BSP2	IA03-50PF-BSP2
										IA03-50SF-NPT2	IA03-50PF-NPT2
										IA03-50SF-PT2	IA03-50PF-PT2

APPLICATIONS



Agriculture



Industry

Versatile IA03 series couplings are used in a widerange of hydraulic applications including agricultural applications, Mobile and construction equipment, In-plant machinery including hydraulic power units and hand tools.



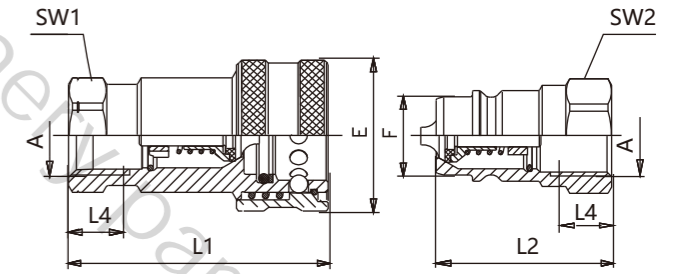
FM-IA03SS

IA is the series of quick couplings with poppet sealing system, interchangeable according to the international standard.

ISO 7241, series A, made of Stainless steel (AISI304)



ISO 7241-A



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Stainless steel (AISI304)
- Connection system**
Single acting sleeve
- Sealing**
Viton FKM/others on request
- Available sizes**
From 1/4" to 2"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +200°C
- Flow rate**
Up to 1000 l/min
- Available threads**
NPT, BSP

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	45	12	17	320	290	290	0.5
10	10	30	23	46	125	125	130	1.9
12	12.5	30	45	90	120	120	135	2.7
20	20	25	106	190	80	100	110	9.3
25	25	20	189	280	60	65	85	16
31	31.5	10	288	480	40	40	40	30
40	40	8	379	757	32	32	32	54
50	50	6	757	1000	25	25	25	120

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	50	35.5	13	19	19	26	11.8	BSP 1/4" NPT 1/4"	IA03SS-06SF-BSP14 IA03SS-06SF-NPT14	IA03SS-06PF-BSP14 IA03SS-06PF-NPT14
10	10	58.5	38	14	22	22	31.5	17.3	BSP 3/8" NPT 3/8"	IA03SS-10SF-BSP38 IA03SS-10SF-NPT38	IA03SS-10PF-BSP38 IA03SS-10PF-NPT38
12	12.5	66	44	16	27	27	38.5	20.5	BSP 1/2" NPT 1/2"	IA03SS-12SF-BSP12 IA03SS-12SF-NPT12	IA03SS-12PF-BSP12 IA03SS-12PF-NPT12
20	20	80	52.5	18	34	34	48	29.1	BSP 3/4" NPT 3/4"	IA03SS-20SF-BSP34 IA03SS-20SF-NPT34	IA03SS-20PF-BSP34 IA03SS-20PF-NPT34
25	25	93	62	21	41	41	55	34.3	BSP 1" NPT 1"	IA03SS-25SF-BSP1 IA03SS-25SF-NPT1	IA03SS-25PF-BSP1 IA03SS-25PF-NPT1
31	31.5	112	70	25	50	50	69	45	BSP 1-1/4" NPT 1-1/4"	IA03SS-31SF-BSP114 IA03SS-31SF-NPT114	IA03SS-31PF-BSP114 IA03SS-31PF-NPT114
40	40	127.5	78	25.5	60	60	84	55	BSP 1-1/2" NPT 1-1/2"	IA03SS-40SF-BSP112 IA03SS-40SF-NPT112	IA03SS-40PF-BSP112 IA03SS-40PF-NPT112
50	50	158	98	26	75	75	99	65	BSP 2" NPT 2"	IA03SS-50SF-BSP2 IA03SS-50SF-NPT2	IA03SS-50PF-BSP2 IA03SS-50PF-NPT2

APPLICATIONS



Versatile IA03SS series couplings are standard couplings in stainless steel for general purpose applications with poppet valve shut-off system.

It used in a wide range of hydraulic applications including agricultural applications, Mobile and construction equipment, In-plant machinery including hydraulic power units and hand tools.

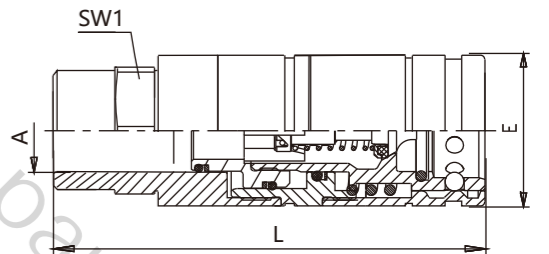
Fluid-tech
FM-AFU

AFU is the series of quick couplings with poppet sealing system, interchangeable according to the international standard.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



**ISO
7241-A**



PRODUCT PARAMETER

FM	ISO	L	E	SW1	A	COD. (Female)
08	12.5	108.7	38	32	BSP 1/2"	AFU-08SF-BSP12
					NPT 1/2"	AFU-08SF-NPT12
					M22*1.5	AFU-08SF-M2215
		112.7			UNF3/4"	AFU-08SF-UNF34
			UNF7/8"	AFU-08SF-UNF78		
			UNF1-1/16"	AFU-08SF-UNF1116		

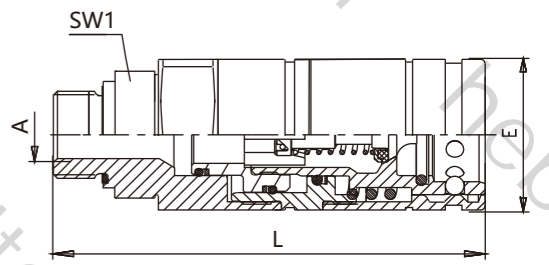
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Compact push-pull
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/2"
- Operating pressure**
Up to 250 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 45 l/min
- Available threads**
METRIC, SAE, NPT, BSP

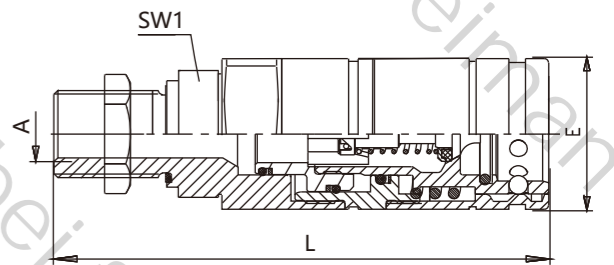
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Min. Burst Pressure			Fluid Spillage
				Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	Mpa	Mpa	Mpa	CC
08	12.5	25	45	100	130	120	2.7

APPLICATIONS



FM	ISO	L	E	SW1	A	COD. (Female)
08	12.5	110.2	38	32	BSP 1/2"	AFU-08SF-BSP12
					M18*1.5	AFU-08SF-M1815
					M22*1.5	AFU-08SF-M2215
		110.7			M22*1.5	AFU-08SF-M2215-ED
			UNF3/4"	AFU-08SF-UNF34		
			UNF7/8"	AFU-08SF-UNF78		
			UNF1-1/16"	AFU-08SF-UNF1116		
			UNF3/4"	AFU-08SF-J1C34		
			UNF7/8"	AFU-08SF-J1C78		
			UNF1-1/16"	AFU-08SF-J1C1116		
		109	UN13/16"	AFU-08SF-ORFS1316		



FM	ISO	L	E	SW1	A	COD. (Female)
08	12.5	108.2	38	32	BSP 3/8"	AFU-08SF-BSP38
					M22*1.5	AFU-08SF-M2215
		131.2			BSP 3/8"	AFU-08SF-BSP38-131
			BSP 1/2"	AFU-08SF-BSP12		
			BSP 5/8"	AFU-08SF-BSP58		

Fluid-tech FM-PAP

PAP is a poppet valve quick coupling series, with modular structure, manufactured in carbon steel with zinc plated surface treatment mainly used in agricultural tractor applications where the breakaway function is requested.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Push-pull
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
METRIC, SAE, NPT, BSP

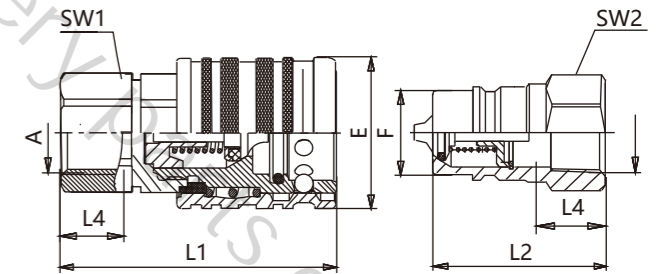
TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	17	100	240	170	0.5
10	10	30	23	46	130	150	130	1.9
12	12.5	25	45	90	95	160	110	2.7
20	20	25	106	190	120	140	110	9.3
25	25	25	189	280	90	110	100	16

APPLICATIONS



ISO 7241-A



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	64	34.5	12	19	19	26	11.9	BSP 1/4"	PAP-06SF-BSP14	PAP-06PF-BSP14
		64	34.5	12	19	19	26	11.9	NPT 1/4"	PAP-06SF-NPT14	PAP-06PF-NPT14
10	10	58	39	13	22	22	32	17.3	BSP 1/4"	PAP-10SF-BSP14	IA01-10PF-BSP14
		58	39	13	22	22	32	17.3	NPT 1/4"	PAP-10SF-NPT14	IA01-10PF-NPT14
		58	39	14	22	22	32	17.3	BSP 3/8"	PAP-10SF-BSP38	PAP-10PF-BSP38
		58	39	14	22	22	32	17.3	NPT 3/8"	PAP-10SF-NPT38	PAP-10PF-NPT38
		58	39	14	22	22	32	17.3	M16x1.5	PAP-10SF-M1615	PAP-10PF-M1615
		58	39	15	22	22	32	17.3	M18x1.5	PAP-10SF-M1815	PAP-10PF-M1815
		58	39	14	22	22	32	17.3	UNF9/16"	PAP-10SF-UNF916	PAP-10PF-UNF916
		58	39	14	22	22	32	17.3	UNF9/16"	PAP-10SF-UNF916	PAP-10PF-UNF916
12	12.5	69	45	14	27	27	38.5	20.5	BSP 3/8"	PAP-12SF-BSP38	PAP-12PF-BSP38
		69	45	14	27	27	38.5	20.5	NPT 3/8"	PAP-12SF-NPT38	PAP-12PF-NPT38
		69	45	17	27	27	38.5	20.5	BSP 1/2"	PAP-12SF-BSP12	PAP-12PF-BSP12
		69	45	17	27	27	38.5	20.5	NPT 1/2"	PAP-12SF-NPT12	PAP-12PF-NPT12
		72	45	19	27	27	38.5	20.5	BSP 3/4"	PAP-12SF-BSP34	PAP-12PF-BSP34
		72	45	19	27	27	38.5	20.5	NPT 3/4"	PAP-12SF-NPT34	PAP-12PF-NPT34
		63	45	14	27	27	38.5	20.5	M14x1.5	PAP-12SF-M1415	PAP-12PF-M1415
		63	45	14	27	27	38.5	20.5	M16x1.5	PAP-12SF-M1615	PAP-12PF-M1615
		69	45	15	27	27	38.5	20.5	M18x1.5	PAP-12SF-M1815	PAP-12PF-M1815
		69	45	15	27	27	38.5	20.5	M20x1.5	PAP-12SF-M2015	PAP-12PF-M2015
		69	45	15	27	27	38.5	20.5	UNF3/4"	PAP-12SF-UNF34	PAP-12PF-UNF34
		69	45	15	27	27	38.5	20.5	UNF3/4"	PAP-12SF-UNF34	PAP-12PF-UNF34
20	20	92	62	17	34	34	48	29.1	BSP 1/2"	PAP-20SF-BSP12	PAP-20PF-BSP12
		92	62	17	34	34	48	29.1	NPT 1/2"	PAP-20SF-NPT12	PAP-20PF-NPT12
		94	56	19	34	34	48	29.1	BSP 3/4"	PAP-20SF-BSP34	PAP-20PF-BSP34
		94	56	19	34	34	48	29.1	NPT 3/4"	PAP-20SF-NPT34	PAP-20PF-NPT34
		92	62	17	34	34	48	29.1	M18x1.5	PAP-20SF-M1815	PAP-20PF-M1815
		92	62	17	34	34	48	29.1	M22x1.5	PAP-20SF-M2215	PAP-20PF-M2215
		94	56	19	34	34	48	29.1	M26x1.5	PAP-20SF-M2615	PAP-20PF-M2615
		94	62	19	34	34	48	29.1	UNF3/4"	PAP-20SF-UNF34	PAP-20PF-UNF34
		94	62	19	34	34	48	29.1	UNF7/8"	PAP-20SF-UNF78	PAP-20PF-UNF78
		94	56	19	34	34	48	29.1	UNF1-1/16"	PAP-20SF-UNF116	PAP-20PF-UNF116
25	25	104	65.5	19	41	41	55	34.3	BSP 3/4"	PAP-25SF-BSP1	PAP-25PF-BSP1
		104	65.5	19	41	41	55	34.3	NPT 3/4"	PAP-25SF-NPT1	PAP-25PF-NPT1
		104	65.5	22	41	41	55	34.3	BSP 1"	PAP-25SF-BSP1	PAP-25PF-BSP1
		104	65.5	22	41	41	55	34.3	NPT 1"	PAP-25SF-NPT1	PAP-25PF-NPT1
		104	65.5	19	41	41	55	34.3	UNF1-1/16"	PAP-25SF-UNF1116	PAP-25PF-UNF1116
		104	65.5	19	41	41	55	34.3	UNF1-5/16"	PAP-25SF-UNF1516	PAP-25PF-UNF1516

Fluid-tech FM-PAP

PAP is a poppet valve quick coupling series, with modular structure, manufactured in carbon steel with zinc plated surface treatment mainly used in agricultural tractor applications where the breakaway function is requested.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Push-pull
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
METRIC, SAE, NPT, BSP

TECHNICAL DATA

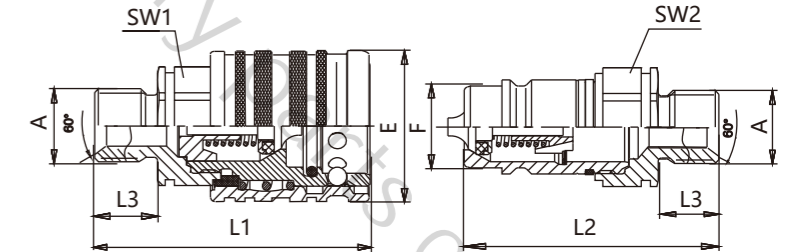
Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	17	100	240	170	0.5
10	10	30	23	46	130	150	130	1.9
12	12.5	25	45	90	95	160	110	2.7
20	20	25	106	190	120	140	110	9.3
25	25	25	189	280	90	110	100	16

APPLICATIONS



ISO 7241-A

Male Thread with 24° Conical Bore



PRODUCT PARAMETER

FM	ISO	L1	L2	L3	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	62	42	10	19	19	26	11.9	M14x1.5	PAP-06SM-M1415	PAP-06PM-M1415
10	10	73	46	10	22	22	32	17.3	M12x1.5	PAP-10SM-M1215	PAP-10PM-M1215
		73	46	10	22	22	32	17.3	M14x1.5	PAP-10SM-M1415	PAP-10PM-M1415
		74	47	11	22	22	32	17.3	M16x1.5	PAP-10SM-M1615	PAP-10PM-M1615
		74	47	11	22	22	32	17.3	M18x1.5	PAP-10SM-M1815	PAP-10PM-M1815
		75	48	12	22	22	32	17.3	Heavy Duty M16x1.5	PAP-10SM-M1615H	PAP-10PM-M1615H
		75	48	12	22	22	32	17.3	M18x1.5	PAP-10SM-M1815H	PAP-10PM-M1815H
		75	48	12	22	22	32	17.3	M20x1.5	PAP-10SM-M2015H	PAP-10PM-M2015H
12	12.5	63	56	10	27	27	38.5	20.5	M14x1.5	PAP-12SM-M1415	PAP-12PM-M1415
		64	57	11	27	27	38.5	20.5	M16x1.5	PAP-12SM-M1615	PAP-12PM-M1615
		64	57	11	27	27	38.5	20.5	M18x1.5	PAP-12SM-M1815	PAP-12PM-M1815
		65	58	12	27	27	38.5	20.5	M22x1.5	PAP-12SM-M2215	PAP-12PM-M2215
		65	58	12	27	27	38.5	20.5	M26x1.5	PAP-12SM-M2615	PAP-12PM-M2615
		65	58	12	27	27	38.5	20.5	Heavy Duty M18x1.5	PAP-12SM-M1815H	PAP-12PM-M1815H
		65	58	12	27	27	38.5	20.5	M20x1.5	PAP-12SM-M2015H	PAP-12PM-M2015H
		67	60	14	27	27	38.5	20.5	M22x1.5	PAP-12SM-M2215H	PAP-12PM-M2215H
		67	60	14	27	27	38.5	20.5	M24x1.5	PAP-12SM-M2415H	PAP-12PM-M2415H
		69	62	16	27	27	38.5	20.5	M30x2.0	PAP-12SM-M3020H	PAP-12PM-M3020H
20	20	90	61	11	34	34	48	29.1	M18x1.5	PAP-20SM-M1815	PAP-20PM-M1815
		91	62	12	34	34	48	29.1	M22x1.5	PAP-20SM-M2215	PAP-20PM-M2215
		91	62	12	34	34	48	29.1	M26x1.5	PAP-20SM-M2615	PAP-20PM-M2615
		93	64	14	34	34	48	29.1	M30x2.0	PAP-20SM-M3020	PAP-20PM-M3020
		91	62	12	34	34	48	29.1	Heavy Duty M18x1.5	PAP-20SM-M1815H	PAP-20PM-M1815H
		91	62	12	34	34	48	29.1	M20x1.5	PAP-20SM-M2015H	PAP-20PM-M2015H
		93	64	14	34	34	48	29.1	M22x1.5	PAP-20SM-M2215H	PAP-20PM-M2215H
		93	64	14	34	34	48	29.1	M24x1.5	PAP-20SM-M2415H	PAP-20PM-M2415H
		95	66	16	34	34	48	29.1	M30x2.0	PAP-20SM-M3020H	PAP-20PM-M3020H
		25	25	91.5	69	12	41	41	55	34.3	M22x1.5
91.5	69			12	41	41	55	34.3	M26x1.5	PAP-25SM-M2615	PAP-25PM-M2615
93.5	71			14	41	41	55	34.3	M30x2.0	PAP-25SM-M3020	PAP-25PM-M3020
93.5	71			14	41	41	55	34.3	M36x2.0	PAP-25SM-M3620	PAP-25PM-M3620
95.5	73			16	41	41	55	34.3	M45x2.0	PAP-25SM-M4520	PAP-25PM-M4520
95.5	73			16	41	41	55	34.3	Heavy Duty M30x2.0	PAP-25SM-M3020H	PAP-25PM-M3020H
97.5	75			18	41	41	55	34.3	M36x2.0	PAP-25SM-M3620H	PAP-25PM-M3620H
99.5	77	20	41	41	55	34.3	M42x2.0	PAP-25SM-M4220H	PAP-25PM-M4220H		

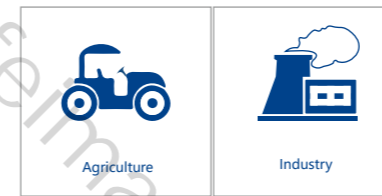
Fluid-tech FM-PAP

PAP is a poppet valve quick coupling series, with modular structure, manufactured in carbon steel with zinc plated surface treatment mainly used in agricultural tractor applications where the breakaway function is requested.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.

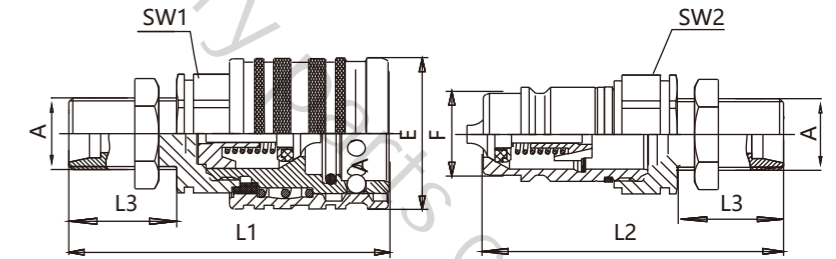


APPLICATIONS



ISO 7241-A

Male Thread with 24° Conical Bore



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Push-pull
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
METRIC, SAE, NPT, BSP

TECHNICAL DATA

Nominal Size	Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage	
				Male(plug)	Female(socket)	Coupled		
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	17	100	240	170	0.5
10	10	30	23	46	130	150	130	1.9
12	12.5	25	45	90	95	160	110	2.7
20	20	25	106	190	120	140	110	9.3
25	25	25	189	280	90	110	100	16

PRODUCT PARAMETER

FM	ISO	L1	L2	L3	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	77.5	57.5	25.5	19	19	26	11.9	M14x1.5	PAP-06SM-M1415L	PAP-06PM-M1415L
10	10	88.5	61.5	25.5	22	22	32	17.3	M14x1.5	PAP-10SM-M1415L	PAP-10PM-M1415L
		88.5	61.5	25.5	22	22	32	17.3	M16x1.5	PAP-10SM-M1615L	PAP-10PM-M1615L
		88.5	61.5	25.5	22	22	32	17.3	M18x1.5	PAP-10SM-M1815L	PAP-10PM-M1815L
		88.8	61.5	25.5	22	22	32	17.3	Heavy Duty	PAP-10SM-M1615HL	PAP-10PM-M1615HL
		88.5	61.5	25.5	22	22	32	17.3	M18x1.5	PAP-10SM-M1815HL	PAP-10PM-M1815HL
12	12.5	78.5	71.5	25.5	27	27	38.5	20.5	M14x1.5	PAP-12SM-M1415L	PAP-12PM-M1415L
		78.5	71.5	25.5	27	27	38.5	20.5	M16x1.5	PAP-12SM-M1615L	PAP-12PM-M1615L
		78.5	71.5	25.5	27	27	38.5	20.5	M18x1.5	PAP-12SM-M1815L	PAP-12PM-M1815L
		78.5	71.5	25.5	27	27	38.5	20.5	M22x1.5	PAP-12SM-M2215L	PAP-12PM-M2215L
		82.0	75.5	29.0	27	27	38.5	20.5	M26x1.5	PAP-12SM-M2615L	PAP-12PM-M2615L
		78.5	71.5	25.5	27	27	38.5	20.5	Heavy Duty	PAP-12SM-M1815HL	PAP-12PM-M1815HL
		78.5	71.5	25.5	27	27	38.5	20.5	M20x1.5	PAP-12SM-M2015HL	PAP-12PM-M2015HL
		78.5	71.5	25.5	27	27	38.5	20.5	M22x1.5	PAP-12SM-M2215HL	PAP-12PM-M2215HL
		82.0	75.5	29.0	27	27	38.5	20.5	M24x1.5	PAP-12SM-M2415HL	PAP-12PM-M2415HL
		82.0	75.5	29.0	27	27	38.5	20.5	M30x2.0	PAP-12SM-M3020HL	PAP-12PM-M3020HL
20	20	105.5	75.5	25.5	34	34	48	29.1	M18x1.5	PAP-20SM-M1815L	PAP-20PM-M1815L
		105.5	76.5	25.5	34	34	48	29.1	M22x1.5	PAP-20SM-M2215L	PAP-20PM-M2215L
		108.0	79.0	29.0	34	34	48	29.1	M26x1.5	PAP-20SM-M2615L	PAP-20PM-M2615L
		113.0	84.0	34.0	34	34	48	29.1	M30x2.0	PAP-20SM-M3020L	PAP-20PM-M3020L
		105.5	76.5	25.5	34	34	48	29.1	Heavy Duty	PAP-20SM-M1815HL	PAP-20PM-M1815HL
		105.5	76.5	25.5	34	34	48	29.1	M20x1.5	PAP-20SM-M2015HL	PAP-20PM-M2015HL
		105.5	76.5	25.5	34	34	48	29.1	M22x1.5	PAP-20SM-M2215HL	PAP-20PM-M2215HL
		108.0	79.0	29.0	34	34	48	29.1	M24x1.5	PAP-20SM-M2415HL	PAP-20PM-M2415HL
		113.0	84.0	34.0	34	34	48	29.1	M30x2.0	PAP-20SM-M3020HL	PAP-20PM-M3020HL
		25	25	105.0	82.5	25.5	41	41	55	34.3	M22x1.5
108.5	86.0			29.0	41	41	55	34.3	M26x1.5	PAP-25SM-M2615L	PAP-25PM-M2615L
113.5	91.0			34.0	41	41	55	34.3	M30x2.0	PAP-25SM-M3020L	PAP-25PM-M3020L
113.5	91.0			34.0	41	41	55	34.3	M36x2.0	PAP-25SM-M3620L	PAP-25PM-M3620L
119.5	119.5			40.0	41	41	55	34.3	M45x2.0	PAP-25SM-M4520L	PAP-25PM-M4520L
113.5	91.0			34.0	41	41	55	34.3	Heavy Duty	PAP-25SM-M3020HL	PAP-25PM-M3020HL
113.5	91.0			34.0	41	41	55	34.3	M36x2.0	PAP-25SM-M3620HL	PAP-25PM-M3620HL
119.5	119.5	40.0	41	41	55	34.3	M42x2.0	PAP-25SM-M4220HL	PAP-25PM-M4220HL		

Fluid-tech FM-PAP

PAP is a poppet valve quick coupling series, with modular structure, manufactured in carbon steel with zinc plated surface treatment mainly used in agricultural tractor applications where the breakaway function is requested.

ISO 7241, series A, made of carbon steel with a galvanizing surface treatment.



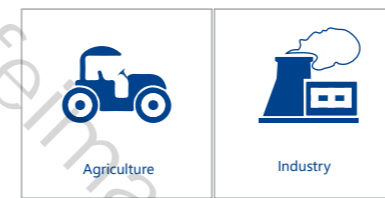
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 A
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Push-pull
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
METRIC, SAE, NPT, BSP

TECHNICAL DATA

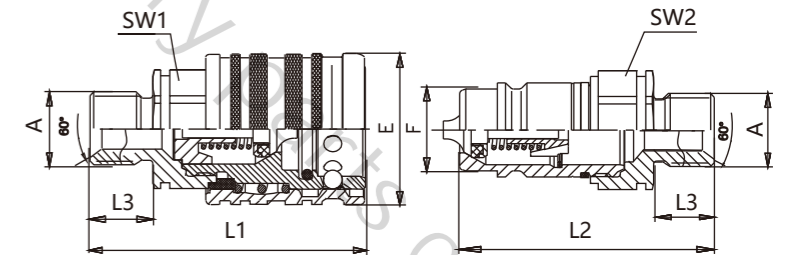
Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	17	100	240	170	0.5
10	10	30	23	46	130	150	130	1.9
12	12.5	25	45	90	95	160	110	2.7
20	20	25	106	190	120	140	110	9.3
25	25	25	189	280	90	110	100	16

APPLICATIONS



ISO 7241-A

Male Thread with 60° Conical Bore



PRODUCT PARAMETER

FM	ISO	L1	L2	L3	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
10	10	75	78	12	22	22	32	17.3	BSP 1/4"	PAP-10SM-BSP38W	PAP-10PM-BSP38W
		75	78	12	22	22	32	17.3	BSP 3/8"	PAP-10SM-BSP38W	PAP-10PM-BSP38W
12	12.5	66	59	13	27	27	38.5	20.5	BSP 3/8"	PAP-12SM-BSP38W	PAP-12PM-BSP38W
		69	62	16	27	27	38.5	20.5	BSP 1/2"	PAP-12SM-BSP12W	PAP-12PM-BSP12W
		66	59	13	27	27	38.5	20.5	M16x1.5	PAP-12SM-M1615W	PAP-12PM-M1615W
		69	62	16	27	27	38.5	20.5	M20x1.5	PAP-12SM-M2015W	PAP-12PM-M2015W
		69	62	16	27	27	38.5	20.5	M22x1.5	PAP-12SM-M2215W	PAP-12PM-M2215W
20	20	95	66	16	34	34	48	29.1	BSP 1/2"	PAP-20SM-BSP12W	PAP-20PM-BSP12W
		95	66	16	34	34	48	29.1	BSP 3/4"	PAP-20SM-BSP34W	PAP-20PM-BSP34W
25	25	97.5	75	18	41	41	55	34.3	BSP 1"	PAP-25SM-BSP1W	PAP-25PM-BSP1W
		95.5	73	16	41	41	55	34.3	BSP 3/4"	PAP-25SM-BSP34W	PAP-25PM-BSP34W

PAP plug is a poppet valve quick coupling series, with modular structure, manufactured in carbon steel with zinc plated surface treatment. The modular structure allows the flexibility to offer several types of port configurations to satisfy diverse applications while maintaining a compact dimension. It is available in size 1/2 for the most popular applications needing the interchangeability with ISO 7241-1 "A".

PAP socket, with modular design and with panel mounting double action sleeve that allows connection and disconnection operation with a push-pull action that acts as a breakaway function. They are mainly used in agricultural tractor applications where the breakaway function is requested to avoid breakage of the hydraulic connections during unintended disconnection. Built in carbon steel with CRIII zinc plating, they are developed in modular design with metric DIN threads (DIN 2353 / ISO 8434-1), Bulkhead (DIN 2353 / ISO 8434-1), BSP (DIN 3852) or other on request. They are available with sizes 1/4, 3/8, 1/2, 3/4 and 1" IP SERIES are ISO 7241-1 A interchangeable Single action sleeve also available with size 1/2.

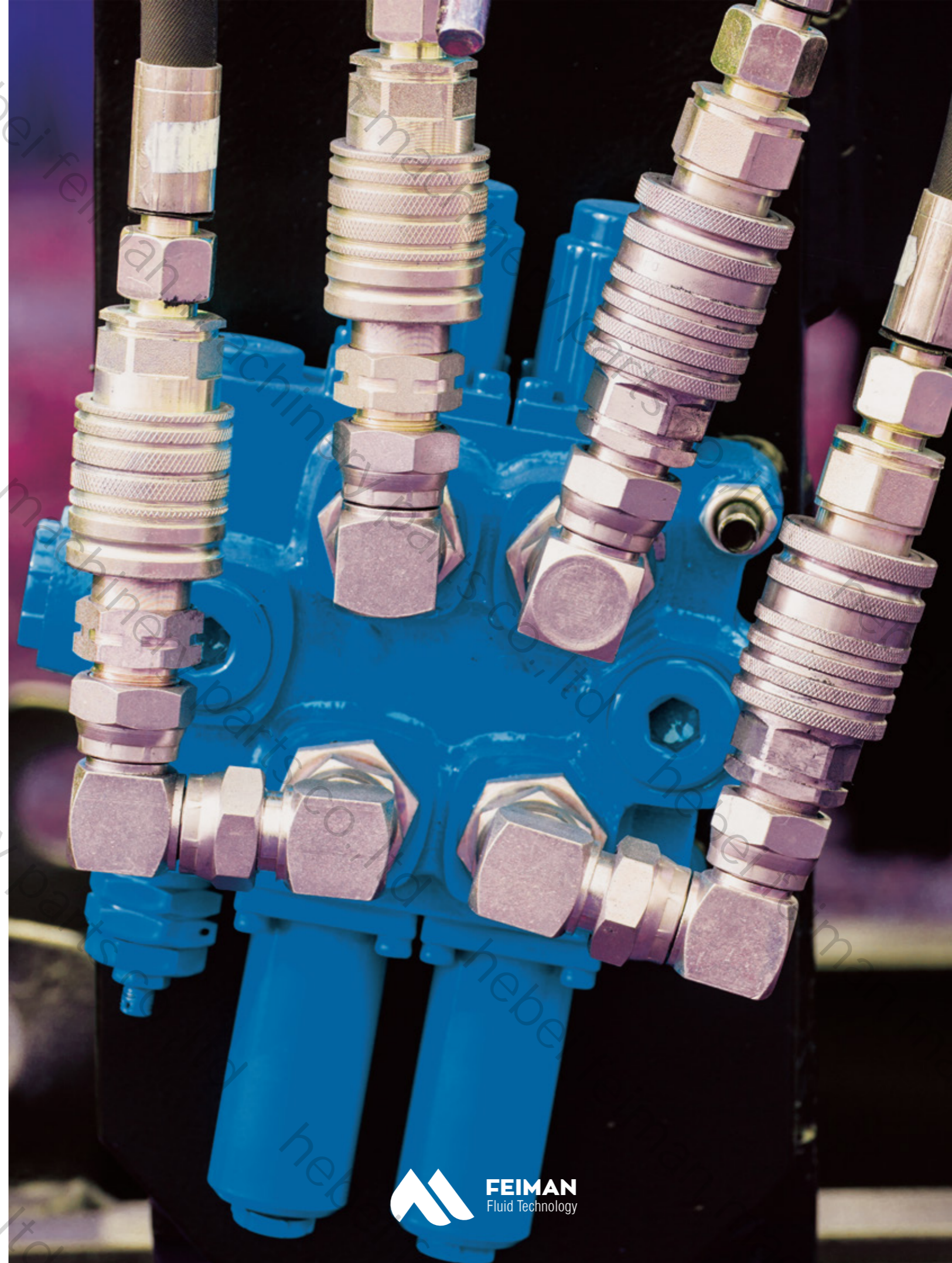
PROTECTIVE CAPS FOR ISO7241-A SERIES



Description		Part Code		Plastic Material
FM	Body size	Female Dust Plug	Male Dust Cap	Color
06	1/4"	FM06-P-IAP	FM06-P-IAC	Red/Green/Blue/Black/Yellow
10	3/8"	FM10-P-IAP	FM10-P-IAC	Red/Green/Blue/Black/Yellow
12	1/2"	FM12-P-IAP	FM12-P-IAC	Red/Green/Blue/Black/Yellow
20	3/4"	FM20-P-IAP	FM20-P-IAC	Red/Green/Blue/Black/Yellow
25	1"	FM25-P-IAP	FM25-P-IAC	Red/Green/Blue/Black/Yellow
31	1-1/4"	FM31-P-IAP	FM31-P-IAC	Red/Green/Blue/Black/Yellow
40	1-1/2"	FM40-P-IAP	FM40-P-IAC	Red/Green/Blue/Black/Yellow
50	2"	FM50-P-IAP	FM50-P-IAC	Red/Green/Blue/Black/Yellow



Description		Part Code		Material
FM	Body size	Female Dust Plug	Male Dust Cap	Material
06	1/4"	FM06-A-IAP	FM06-A-IAC	Aluminum
10	3/8"	FM10-A-IAP	FM10-A-IAC	Aluminum
12	1/2"	FM12-A-IAP	FM12-A-IAC	Aluminum
20	3/4"	FM20-A-IAP	FM20-A-IAC	Aluminum
25	1"	FM25-A-IAP	FM25-A-IAC	Aluminum
31	1-1/4"	FM31-A-IAP	FM31-A-IAC	Aluminum
40	1-1/2"	FM40-A-IAP	FM40-A-IAC	Aluminum
50	2"	FM50-A-IAP	FM50-A-IAC	Aluminum



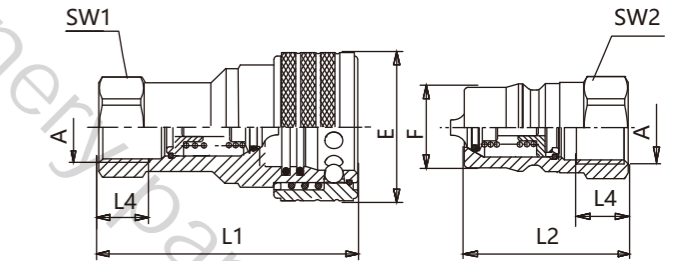
Fluid-tech FM-IB01

IB01 is a poppet valve quick couplings series interchangeable with international standard.

ISO 7241-B, manufactured in carbon steel with zinc plated surface treatment.



ISO 7241-B



TECHNICAL SPECIFICATIONS AND OPTIONS

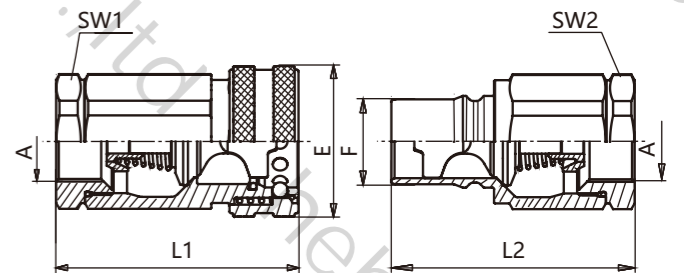
- **Interchange**
ISO 7241 B
- **Valving style**
Poppet
- **Connection Under Pressure**
Not allowed
- **Material / Treatment**
Carbon steel, Cr3
- **Connection system**
Single acting sleeve
- **Sealing**
Nitrile NBR/others on request
- **Available sizes**
From 1/4" to 2"
- **Operating pressure**
Up to 500 bar
- **Locking mechanism**
Locking ball
- **Temperature**
-20°C / +100°C
- **Flow rate**
Up to 1000 l/min
- **Available threads**
NPT, BSP

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
03	5	50	3	9	240	230	270	0.5
06	6.3	25	12	24	110	180	100	1
10	10	25	23	46	140	140	130	2.4
12	12.5	25	45	90	110	140	110	3.9
20	20	25	106	220	100	130	120	11
25	25	23	189	260	100	110	100	19
40	40	20	379	757	80	80	80	95
50	50	10	757	1000	40	40	40	170

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)		COD.(Male)	
03	5	48.6	29.2	11	17	14	23	10.9	BSP 1/8" NPT 1/8"	IB01-03SF-BSP18 IB01-03SF-NPT18	IB01-03PF-BSP18 IB01-03PF-NPT18		
06	6.3	57.5	35.5	13	19	19	28	14.2	BSP 1/4" NPT 1/4"	IB01-06SF-BSP14 IB01-06SF-NPT14	IB01-06PF-BSP14 IB01-06PF-NPT14		
10	10	65	40	13	22	22	35	19.1	BSP 3/8" NPT 3/8"	IB01-10SF-BSP38 IB01-10SF-NPT38	IB01-10PF-BSP38 IB01-10PF-NPT38		
12	12.5	72.9	44.5	15	27	27	44	23.5	BSP 1/2" NPT 1/2"	IB01-12SF-BSP12 IB01-12SF-NPT12	IB01-12PF-BSP12 IB01-12PF-NPT12		
20	20	88.2	55	17	34	34	52	31.5	BSP 3/4" NPT 3/4"	IB01-20SF-BSP34 IB01-20SF-NPT34	IB01-20PF-BSP34 IB01-20PF-NPT34		
25	25	106	64.5	22	41	41	66	37.8	BSP 1" NPT 1"	IB01-25SF-BSP1 IB01-25SF-NPT1	IB01-25PF-BSP1 IB01-25PF-NPT1		



FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)		COD.(Male)	
40	40	123.5	121		65	65	78.5	44.5	BSP 1-1/4" NPT 1-1/4"	IB01-40SF-BSP114	IB01-40PF-BSP114		
										IB01-40SF-NPT114	IB01-40PF-NPT114		
										IB01-40SF-BSP112	IB01-40PF-BSP112		
		127.5	124.5		65	65	78.5	44.5	NPT 1-1/2"	IB01-40SF-NPT112	IB01-40PF-NPT112		
50	50	145	142.5		90	90	105	63.3	BSP 2" NPT 2"	IB01-50SF-BSP2 IB01-50SF-NPT2	IB01-50PF-BSP2 IB01-50PF-NPT2		

APPLICATIONS





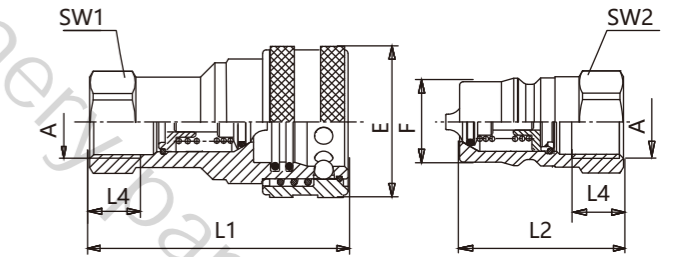
FM-IB01SS

IB01SS is a poppet valve quick couplings series interchangeable with international standard.

ISO 7241-B, manufactured in stainless steel (AISI316).



ISO 7241-B



TECHNICAL SPECIFICATIONS AND OPTIONS

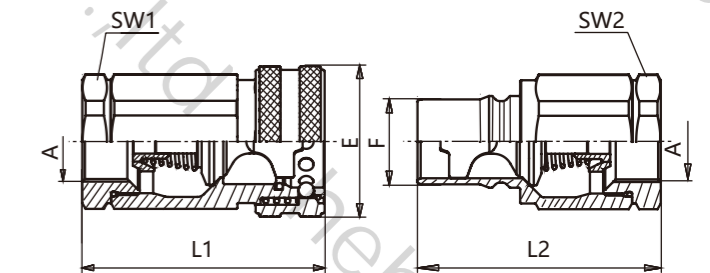
- Interchange**
ISO 7241 B
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
stainless steel (AISI316)
- Connection system**
Single acting sleeve
- Sealing**
Viton FKM/others on request
- Available sizes**
From 1/4" to 2"
- Operating pressure**
Up to 400 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +200°C
- Flow rate**
Up to 1000 l/min
- Available threads**
NPT, BSP

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
03	5	40	3	9	210	200	140	0.5
06	6.3	35	12	24	170	150	160	1
10	10	30	23	46	110	110	210	2.4
12	12.5	30	45	90	150	140	150	3.9
20	20	22	106	220	100	90	100	11
25	25	20	189	260	60	65	85	19
40	40	8	379	757	25	25	25	95
50	50	6	757	1000	20	20	20	170

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
03	5	48.6	29.2	11	17	14	23	10.9	BSP 1/8" NPT 1/8"	IB01SS-03SF-BSP18 IB01SS-03SF-NPT18	IB01SS-03PF-BSP18 IB01SS-03PF-NPT18
06	6.3	57.5	35.5	13	19	19	28	14.2	BSP 1/4" NPT 1/4"	IB01SS-06SF-BSP14 IB01SS-06SF-NPT14	IB01SS-06PF-BSP14 IB01SS-06PF-NPT14
10	10	65	40	13	22	22	35	19.1	BSP 3/8" NPT 3/8"	IB01SS-10SF-BSP38 IB01SS-10SF-NPT38	IB01SS-10PF-BSP38 IB01SS-10PF-NPT38
12	12.5	72.9	44.5	15	27	27	44	23.5	BSP 1/2" NPT 1/2"	IB01SS-12SF-BSP12 IB01SS-12SF-NPT12	IB01SS-12PF-BSP12 IB01SS-12PF-NPT12
20	20	88.2	55	17	34	34	52	31.5	BSP 3/4" NPT 3/4"	IB01SS-20SF-BSP34 IB01SS-20SF-NPT34	IB01SS-20PF-BSP34 IB01SS-20PF-NPT34
25	25	106	64.5	22	41	41	66	37.8	BSP 1" NPT 1"	IB01SS-25SF-BSP1 IB01SS-25SF-NPT1	IB01SS-25PF-BSP1 IB01SS-25PF-NPT1



FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
40	40	123.5	121		65	65	78.5	44.5	BSP 1-1/4" NPT 1-1/4"	IB01SS-40SF-BSP114 IB01SS-40SF-NPT114	IB01SS-40PF-BSP114 IB01SS-40PF-NPT114
		127.5	124.5		65	65	78.5	44.5	BSP 1-1/2" NPT 1-1/2"	IB01SS-40SF-BSP112 IB01SS-40SF-NPT112	IB01SS-40PF-BSP112 IB01SS-40PF-NPT112
50	50	145	142.5		90	90	105	63.3	BSP 2" NPT 2"	IB01SS-50SF-BSP2 IB01SS-50SF-NPT2	IB01SS-50PF-BSP2 IB01SS-50PF-NPT2

APPLICATIONS



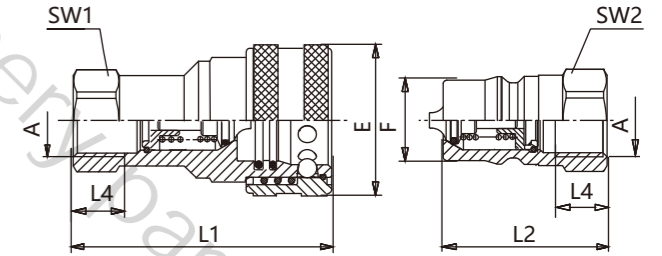
Interchange FM-IB01B

IB01B is the series of quick-release couplings with poppet sealing system, interchangeable according to the international standard.

ISO 7241, series B, made of brass and with springs and spheres in stainless steel.



ISO 7241-B



TECHNICAL SPECIFICATIONS AND OPTIONS

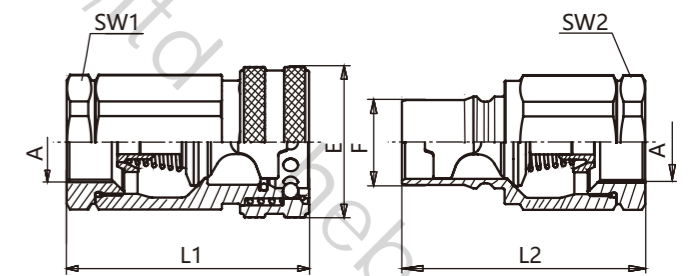
- Interchange**
ISO 7241 B
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Brass
- Connection system**
Single acting sleeve
- Sealing**
Viton FKM/others on request
- Available sizes**
From 1/4" to 2"
- Operating pressure**
Up to 300 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +200°C
- Flow rate**
Up to 1000 l/min
- Available threads**
NPT, BSP

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM	ISO				Male(plug)	Female(socket)	Coupled	
03	5	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
03	5	30	3	9	120	190	150	0.5
06	6.3	20	12	24	80	80	120	1
10	10	20	23	46	80	85	95	2.4
12	12.5	18	45	90	72	90	100	3.9
20	20	13	106	220	55	65	80	11
25	25	13	189	260	55	70	60	19
40	40	6	379	757	25	25	25	95
50	50	5	757	1000	20	20	20	170

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
03	5	48.6	29.2	11	17	14	23	10.9	BSP 1/8" NPT 1/8"	IB01B-03SF-BSP18 IB01B-03SF-NPT18	IB01B-03PF-BSP18 IB01B-03PF-NPT18
06	6.3	57.5	35.5	13	19	19	28	14.2	BSP 1/4" NPT 1/4"	IB01B-06SF-BSP14 IB01B-06SF-NPT14	IB01B-06PF-BSP14 IB01B-06PF-NPT14
10	10	65	40	13	22	22	35	19.1	BSP 3/8" NPT 3/8"	IB01B-10SF-BSP38 IB01B-10SF-NPT38	IB01B-10PF-BSP38 IB01B-10PF-NPT38
12	12.5	72.9	44.5	15	27	27	44	23.5	BSP 1/2" NPT 1/2"	IB01B-12SF-BSP12 IB01B-12SF-NPT12	IB01B-12PF-BSP12 IB01B-12PF-NPT12
20	20	88.2	55	17	34	34	52	31.5	BSP 3/4" NPT 3/4"	IB01B-20SF-BSP34 IB01B-20SF-NPT34	IB01B-20PF-BSP34 IB01B-20PF-NPT34
25	25	106	64.5	22	41	41	66	37.8	BSP 1" NPT 1"	IB01B-25SF-BSP1 IB01B-25SF-NPT1	IB01B-25PF-BSP1 IB01B-25PF-NPT1



FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
25	25	123.5	121		65	65	78.5	44.5	BSP 1-1/4" NPT 1-1/4"	IB01B-40SF-BSP114 IB01B-40SF-NPT114	IB01B-40PF-BSP114 IB01B-40PF-NPT114
40	40	127.5	124.5		65	65	78.5	44.5	BSP 1-1/2" NPT 1-1/2"	IB01B-40SF-BSP112 IB01B-40SF-NPT112	IB01B-40PF-BSP112 IB01B-40PF-NPT112
50	50	145	142.5		90	90	105	63.3	BSP 2" NPT 2"	IB01B-50SF-BSP2 IB01B-50SF-NPT2	IB01B-50PF-BSP2 IB01B-50PF-NPT2

APPLICATIONS



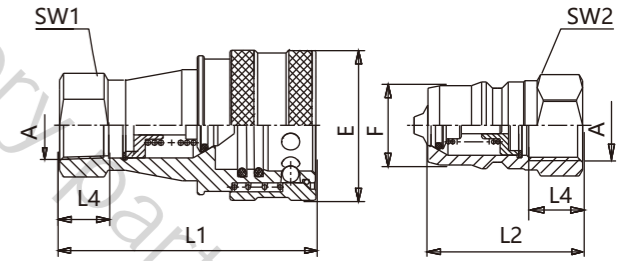
Fluid-tech
FM-KZD

KZD is a poppet valve quick couplings series interchangeable with international standard.

ISO 7241-B, manufactured in brass.



**ISO
7241-B**



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
03	5	47	32	11	17	14	23	10.9	BSPT 1/8"	KZD-03SF-PT18	KZD-03PF-PT18
06	6.3	57.5	35.6	13	19	19	28	14.2	BSPT 1/4"	KZD-06SF-PT14	KZD-06PF-PT14
10	10	65	40	13	22	22	35	19.1	BSPT 3/8"	KZD-10SF-PT38	KZD-10PF-PT38
12	12.5	72	44	15	27	27	44	23.5	BSPT 1/2"	KZD-12SF-PT12	KZD-12PF-PT12
20	20	87	53	17	34	34	54	31.5	BSPT 3/4"	KZD-20SF-PT34	KZD-20PF-PT34
25	25	103	60	22	41	41	64	37.8	BSPT 1"	KZD-25SF-PT1	KZD-25PF-PT1

TECHNICAL SPECIFICATIONS AND OPTIONS

- **Interchange**
ISO 7241 B
- **Valving style**
Poppet
- **Connection Under Pressure**
Not allowed
- **Material / Treatment**
Brass
- **Connection system**
Single acting sleeve
- **Sealing**
Viton FKM/others on request
- **Available sizes**
From 1/4" to 1"
- **Operating pressure**
Up to 200 bar
- **Locking mechanism**
Locking ball
- **Temperature**
-20°C / +200°C
- **Flow rate**
Up to 260 l/min
- **Available threads**
BSPT

APPLICATIONS



TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM	ISO				Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
03	5	20	3	9	80	80	80	0.5
06	6.3	20	12	24	100	80	80	1
10	10	20	23	46	64	64	64	2.4
12	12.5	16	45	90	64	64	64	3.9
20	20	13	106	220	45	50	50	11
25	25	10	189	260	40	40	40	19

Fluid-tech
FM-KZF

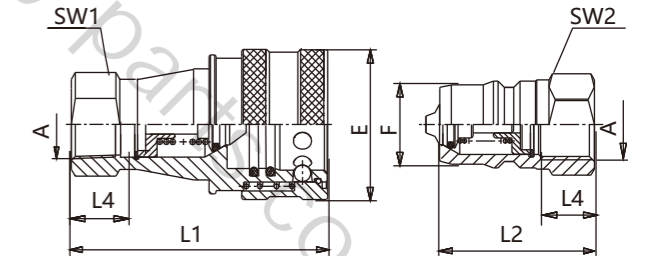
KZF is a poppet valve quick couplings series interchangeable with international standard.

ISO 7241-B, manufactured in stainless steel (AISI304).



**ISO
7241-B**

APPLICATIONS



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
03	5	47	32	11	17	14	23	10.9	BSPT 1/8"	KZF-03SF-PT18	KZF-03PF-PT18
06	6.3	57.5	35.6	13	19	19	28	14.2	BSPT 1/4"	KZF-06SF-PT14	KZF-06PF-PT14
10	10	65	40	13	22	22	35	19.1	BSPT 3/8"	KZF-10SF-PT38	KZF-10PF-PT38
12	12.5	72	44	15	27	27	44	23.5	BSPT 1/2"	KZF-12SF-PT12	KZF-12PF-PT12
20	20	87	53	17	34	34	54	31.5	BSPT 3/4"	KZF-20SF-PT34	KZF-20PF-PT34
25	25	103	60	22	41	41	64	37.8	BSPT 1"	KZF-25SF-PT 1	KZF-25PF-PT 1

TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 7241 B
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Stainless steel (AISI304)
- Connection system**
Single acting sleeve
- Sealing**
Viton FKM/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 250 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +200°C
- Flow rate**
Up to 260 l/min
- Available threads**
BSPT

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM	ISO				Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
03	5	25	3	9	100	100	100	0.5
06	6.3	25	12	24	100	100	100	1
10	10	20	23	46	80	80	80	2.4
12	12.5	20	45	90	80	80	80	3.9
20	20	14	106	220	64	64	64	11
25	25	12.5	189	260	50	50	50	19

PROTECTIVE CAPS FOR ISO7241-B SERIES



Description		Part Code		Plastic Material
FM	Body size	Female Dust Plug	Male Dust Cap	Color
06	1/4"	FM06-P-IBP	FM06-P-IBC	Red/Green/Blue/Black/Yellow
10	3/8"	FM10-P-IBP	FM10-P-IBC	Red/Green/Blue/Black/Yellow
12	1/2"	FM12-P-IBP	FM12-P-IBC	Red/Green/Blue/Black/Yellow
20	3/4"	FM20-P-IBP	FM20-P-IBC	Red/Green/Blue/Black/Yellow
25	1"	FM25-P-IBP	FM25-P-IBC	Red/Green/Blue/Black/Yellow
31	1-1/4"	FM31-P-IBP	FM31-P-IBC	Red/Green/Blue/Black/Yellow
40	1-1/2"	FM40-P-IBP	FM40-P-IBC	Red/Green/Blue/Black/Yellow
50	2"	FM50-P-IBP	FM50-P-IBC	Red/Green/Blue/Black/Yellow



Description		Part Code		Plastic Material
FM	Body size	Female Dust Plug	Male Dust Cap	Material
06	1/4"	FM06-A-IBP	FM06-A-IBC	Aluminum
10	3/8"	FM10-A-IBP	FM10-A-IBC	Aluminum
12	1/2"	FM12-A-IBP	FM12-A-IBC	Aluminum
20	3/4"	FM20-A-IBP	FM20-A-IBC	Aluminum
25	1"	FM25-A-IBP	FM25-A-IBC	Aluminum
31	1-1/4"	FM31-A-IBP	FM31-A-IBC	Aluminum
40	1-1/2"	FM40-A-IBP	FM40-A-IBC	Aluminum
50	2"	FM50-A-IBP	FM50-A-IBC	Aluminum

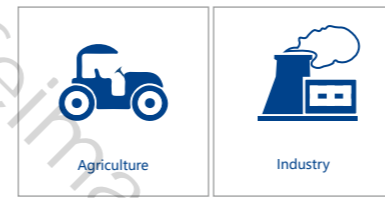


Fluid-tech
FM-NV

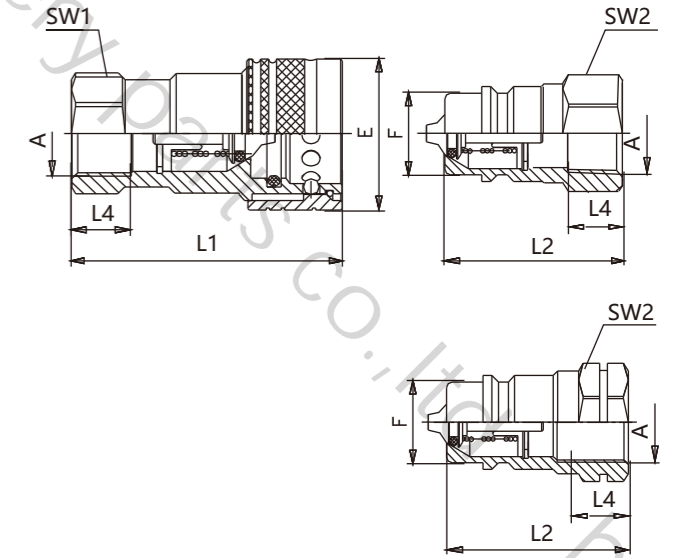
NV is a poppet valve quick couplings series, manufactured in carbon steel with zinc plated surface treatment. The design is based on the better sealing of the poppet valve compared to the ball valve. The size 1/2 is a part of IA series and it is interchangeable in according with international standard ISO 7241-1 series "A".



APPLICATIONS



**ISO
5675**



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 5675
With similar couplings
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4", 3/8", 1/2", 3/4", 1"
- Operating pressure**
Up to 400 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 250 l/min
- Available threads**
NPT, BSP, METRIC, SAE

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	40	12	24	160	170	160	1
10	10	35	23	46	150	170	150	2
12	12.5	25	45	90	100	140	120	2.5
20	20	25	106	190	100	120	110	8.5
25	25	23	189	250	120	110	100	12

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	06	35	13	19	19	27.6	14.2	14.2	BSP 1/4" NPT 1/4" UNF9/16"	NV-06SF-BSP14 NV-06SF-NPT14 NV-06SF-UNF916	NV-06PF-BSP14 NV-06PF-NPT14 NV-06PF-UNF916
10	10	42.5	14	22	22	34	19	19	BSP 3/8" NPT 3/8"	NV-10SF-BSP38 NV-10SF-NPT38	NV-10PF-BSP38 NV-10PF-NPT38
12	12	46.5	16	27	27	38.5	20.5	20.5	BSP 1/2" NPT 1/2" BSPT 1/2" UNF3/4" UNF7/8" M18*1.5" M20*1.5" M22*1.5"	NV-12SF-BSP12 NV-12SF-NPT12 NV-12SF-PT12 NV-12SF-UNF34 NV-12SF-UNF78 NV-12SF-M1815 NV-12SF-M2015 NV-12SF-M2215	NV-12PF-BSP12 NV-12PF-NPT12 NV-12PF-PT12 NV-12PF-UNF34 NV-12PF-UNF78 NV-12PF-M1815 NV-12PF-M2015 NV-12PF-M2215
20	20	57	18	34	34	48	27.9	27.9	BSP 3/4" NPT 3/4"	NV-20SF-BSP34 NV-20SF-NPT34	NV-20PF-BSP34 NV-20PF-NPT34
25	25	65.5	21	41	41	52	31.3	31.3	BSP 1" NPT 1"	NV-25SF-BSP1 NV-25SF-NPT1	NV-25PF-BSP1 NV-25PF-NPT1

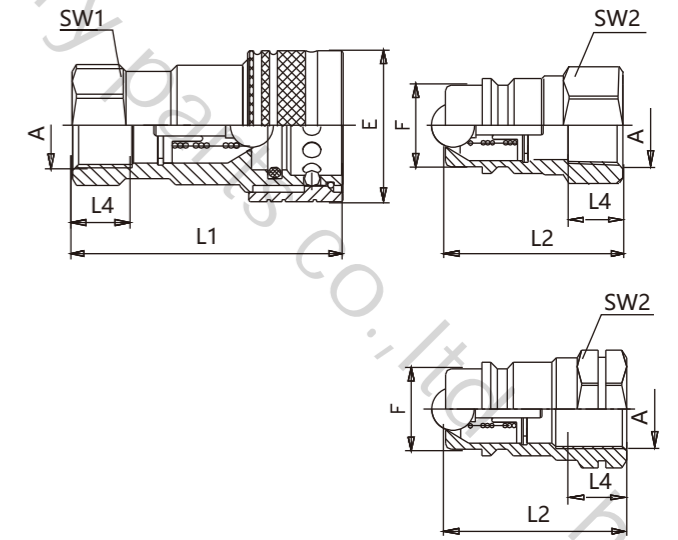
Fluid-tech FM-NS

NS is a ball valve quick couplings series, manufactured in carbon steel with zinc plated surface treatment. The design is based on the better sealing of the poppet valve compared to the ball valve. The size 1/2 is a part of IA series and it is interchangeable in according with international standard ISO 7241-1 series "A".



ISO 5675

APPLICATIONS



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 5675
With similar couplings
- Valving style**
Ball
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4", 3/8", 1/2", 3/4", 1"
- Operating pressure**
Up to 300 bar
- Locking mechanism**
Locking ball
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 160 l/min
- Available threads**
NPT, BSP, METRIC, SAE

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	30	12	20	120	120	150	0.5
10	10	30	23	35	100	100	160	1.4
12	12.5	25	30	55	80	95	130	1.9
20	20	25	60	120	80	110	120	4.6
25	25	20	80	160	85	110	100	5.9

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	55.5	35	13	19	19	27.6	14.2	BSP 1/4" NPT 1/4" UNF9/16"	NS-06SF-BSP14 NS-06SF-NPT14 NS-06SF-UNF916	NS-06PF-BSP14 NS-06PF-NPT14 NS-06PF-UNF916
10	10	63.5	42.5	14	22	22	34	19	BSP 3/8" NPT 3/8"	NS-10SF-BSP38 NS-10SF-NPT38	NS-10PF-BSP38 NS-10PF-NPT38
12	12.5	68.5	46.5	16	27	27	38.5	20.5	BSP 1/2" NPT 1/2" BSPT 1/2" UNF3/4" UNF7/8" M18*1.5" M20*1.5" M22*1.5"	NS-12SF-BSP12 NS-12SF-NPT12 NS-12SF-PT12 NS-12SF-UNF34 NS-12SF-UNF78 NS-12SF-M1815 NS-12SF-M2015 NS-12SF-M2215	NS-12PF-BSP12 NS-12PF-NPT12 NS-12PF-PT12 NS-12PF-UNF34 NS-12PF-UNF78 NS-12PF-M1815 NS-12PF-M2015 NS-12PF-M2215
20	20	84	57	18	34	34	48	27.9	BSP 3/4" NPT 3/4"	NS-20SF-BSP34 NS-20SF-NPT34	NS-20PF-BSP34 NS-20PF-NPT34
25	25	99	65.5	21	41	41	52	31.3	BSP 1" NPT 1"	NS-25SF-BSP1 NS-25SF-NPT1	NS-25PF-BSP1 NS-25PF-NPT1

Interchange FM-FFH

FFH Series couplings are widely used in the public utility market where hydraulic oil spillage can constitute a serious safety hazard, particularly in overhead bucket hoists that are used for maintenance of high-voltage power transmission lines. These couplings are also used for quick change of hydraulic tools in construction, railway maintenance and mining industries. The ease of cleaning makes them ideal for use in these types of hostile environments.



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 16028
- Valving style**
Flat Face
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Zn-Ni
- Connection system**
Push
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 2"
- Operating pressure**
Up to 400 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-25°C / +125°C
- Flow rate**
Up to 1000 l/min
- Available threads**
BSP, NPT, SAE, METRIC, ORFS, JIC

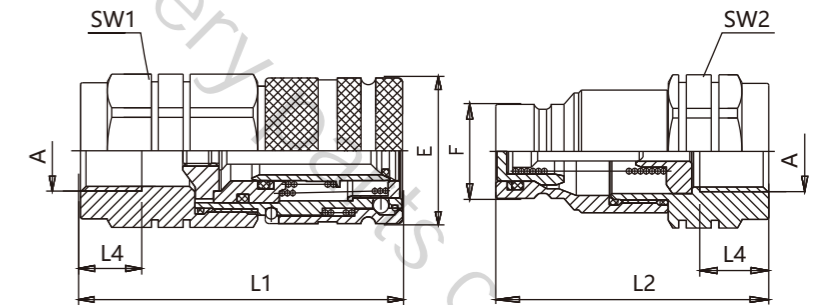
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	40	12	24	120	150	170	0.008
10	10	35	23	46	105	110	150	0.010
12	12.5	35	45	90	105	110	150	0.012
16	16	35	74	150	105	110	150	0.015
20	19	35	100	200	105	110	150	0.020
25	25	26	189	280	80	80	80	0.030
40	38	25	379	700	120	120	110	0.050
50	51	25	757	1000	100	100	100	0.100

APPLICATIONS



ISO 16028



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	57.9	53.8	12	27	22	28	16.2	BSP 1/4" NPT 1/4" BSP 3/8" NPT 3/8" UNF 9/16" M16x1.5 M18x1.5	FFH-06SF-BSP14 FFH-06SF-NPT14 FFH-06SF-BSP38 FFH-06SF-NPT38 FFH-06SF-UNF916 FFH-06SF-M1615 FFH-06SF-M1815	FFH-06PF-BSP14 FFH-06PF-NPT14 FFH-06PF-BSP38 FFH-06PF-NPT38 FFH-06PF-UNF916 FFH-06PF-M1615 FFH-06PF-M1815
10	10	69	60	14	30	27	31.5	19.8	BSP 3/8" NPT 3/8" BSP 1/2" NPT 1/2" UNF 9/16" UNF 3/4" UNF 7/8" M16x1.5 M18x1.5 M22x1.5	FFH-10SF-BSP38 FFH-10SF-NPT38 FFH-10SF-BSP12 FFH-10SF-NPT12 FFH-10SF-UNF916 FFH-10SF-UNF34 FFH-10SF-UNF78 FFH-10SF-M1615 FFH-10SF-M1815 FFH-10SF-M2215	FFH-10PF-BSP38 FFH-10PF-NPT38 FFH-10PF-BSP12 FFH-10PF-NPT12 FFH-10PF-UNF916 FFH-10PF-UNF34 FFH-10PF-UNF78 FFH-10PF-M1615 FFH-10PF-M1815 FFH-10PF-M2215
12	12.5	83.7	71.5	14	36	36	38	24.55	BSP 1/2" NPT 1/2" BSP 3/4" NPT 3/4" UNF 3/4" UNF 7/8" UNF 1-1/16" M22x1.5 M26x1.5	FFH-12SF-BSP12 FFH-12SF-NPT12 FFH-12SF-BSP34 FFH-12SF-NPT34 FFH-12SF-UNF34 FFH-12SF-UNF78 FFH-12SF-UNF1116 FFH-12SF-M2215 FFH-12SF-M2615	FFH-12PF-BSP12 FFH-12PF-NPT12 FFH-12PF-BSP34 FFH-12PF-NPT34 FFH-12PF-UNF34 FFH-12PF-UNF78 FFH-12PF-UNF1116 FFH-12PF-M2215 FFH-12PF-M2615
16	16	84	73	16	41	36	42	27	BSP 1/2" NPT 1/2" BSP 3/4" NPT 3/4" UNF 3/4" UNF 7/8" UNF 1-1/16" M22x1.5 M26x1.5	FFH-16SF-BSP16 FFH-16SF-NPT16 FFH-16SF-BSP34 FFH-16SF-NPT34 FFH-16SF-UNF34 FFH-16SF-UNF78 FFH-16SF-UNF1116 FFH-16SF-M2215 FFH-16SF-M2615	FFH-16PF-BSP16 FFH-16PF-NPT16 FFH-16PF-BSP34 FFH-16PF-NPT34 FFH-16PF-UNF34 FFH-16PF-UNF78 FFH-16PF-UNF1116 FFH-16PF-M2215 FFH-16PF-M2615
20	19	98.6	84	16	46	46	48	29.95	BSP 3/4" NPT 3/4" BSP 1" NPT 1" UNF 1-1/16" UNF 1-5/16"	FFH-20SF-BSP34 FFH-20SF-NPT34 FFH-20SF-BSP1 FFH-20SF-NPT1 FFH-12SF-UNF1116 FFH-12SF-UNF1516	FFH-20PF-BSP34 FFH-20PF-NPT34 FFH-20PF-BSP1 FFH-20PF-NPT1 FFH-12PF-UNF1116 FFH-12PF-UNF1516
25	25	111.5	90	18	55	55	55	36	BSP 1" NPT 1" BSP 1-1/4" NPT 1-1/4" UNF 1-5/16" UNF 1-5/8"	FFH-25SF-BSP1 FFH-25SF-NPT1 FFH-25SF-BSP114 FFH-25SF-NPT114 FFH-25SF-UNF1516 FFH-25SF-UNF158	FFH-25PF-BSP1 FFH-25PF-NPT1 FFH-25PF-BSP114 FFH-25PF-NPT114 FFH-25PF-UNF1516 FFH-25PF-UNF158
40	38	118.5	119.8	23	70	70	79	57	BSP 1-1/2" NPT 1-1/2"	FFH-40SF-BSP112 FFH-40SF-NPT112	FFH-40PF-BSP112 FFH-40PF-NPT112
50	51	145.5	173.4	24	80	80	103	72.9	BSP 2" NPT 2"	FFH-50SF-BSP2 FFH-50SF-NPT2	FFH-50PF-BSP2 FFH-50PF-NPT2

Fluid-tech FM-FFN



FFN Flat face couplings, ISO 16028 interchange, easy connection&disconnection by pushing the two halves together with one hand and less fluid loss.

Flat face couplings are easily wiped clean and allow for minimal inclusion of air&contaminants during connection. The locking sleeve is provided with a safety-system which makes sure a perfect connection and prevents accidental disconnection.

TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 16028
- Valving style**
Flat Face
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Zn-Ni
- Connection system**
Push
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 11/4"
- Operating pressure**
Up to 400 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
BSP, NPT, METRIC, SAE, ORFS, JIC

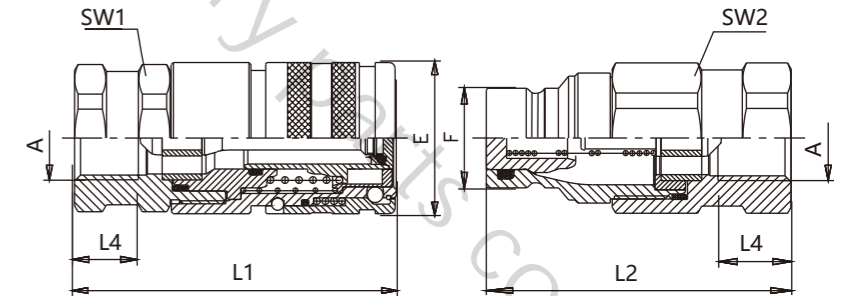
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	40	12	24	120	150	170	0.006
10	10	35	23	46	105	110	150	0.008
12	12.5	35	45	90	105	110	150	0.010
16	16	35	74	150	105	110	150	0.020
20	19	25	100	200	105	110	150	0.020
25	25	25	189	280	80	80	80	0.030

APPLICATIONS



ISO 16028



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	60	50	14	24	24	27	16.2	BSP 1/4" NPT 1/4" BSP 3/8" NPT 3/8" UNF 7/16" UNF 9/16" M16x1.5 M18x1.5	FFN-06SF-BSP14 FFN-06SF-NPT14 FFN-06SF-BSP38 FFN-06SF-NPT38 FFN-06SF-UNF716 FFN-06SF-UNF916 FFN-06SF-M1615 FFN-06SF-M1815	FFN-06PF-BSP14 FFN-06PF-NPT14 FFN-06PF-BSP38 FFN-06PF-NPT38 FFN-06PF-UNF716 FFN-06PF-UNF916 FFN-06PF-M1615 FFN-06PF-M1815
10	10	75	68.3	17	27	27	31.5	19.7	BSP 3/8" NPT 3/8" BSP 1/2" NPT 1/2" UNF 9/16" UNF 3/4" UNF 7/8" M16x1.5 M18x1.5 M22x1.5	FFN-10SF-BSP38 FFN-10SF-NPT38 FFN-10SF-BSP12 FFN-10SF-NPT12 FFN-10SF-UNF916 FFN-10SF-UNF34 FFN-10SF-UNF78 FFN-10SF-M1615 FFN-10SF-M1815 FFN-10SF-M2215	FFN-10PF-BSP38 FFN-10PF-NPT38 FFN-10PF-BSP12 FFN-10PF-NPT12 FFN-10PF-UNF916 FFN-10PF-UNF34 FFN-10PF-UNF78 FFN-10PF-M1615 FFN-10PF-M1815 FFN-10PF-M2215
12	12.5	81.3	75	22	34	34	37	24.5	BSP 1/2" NPT 1/2" BSP 3/4" NPT 3/4" UNF 3/4" UNF 7/8" UNF 1-1/16" M22x1.5 M26x1.5	FFN-12SF-BSP12 FFN-12SF-NPT12 FFN-12SF-BSP34 FFN-12SF-NPT34 FFN-12SF-UNF34 FFN-12SF-UNF78 FFN-12SF-UNF1116 FFN-12SF-M2215 FFN-12SF-M2615	FFN-12PF-BSP12 FFN-12PF-NPT12 FFN-12PF-BSP34 FFN-12PF-NPT34 FFN-12PF-UNF34 FFN-12PF-UNF78 FFN-12PF-UNF1116 FFN-12PF-M2215 FFN-12PF-M2615
16	16	92.1	89.7	24	38	38	42	27	BSP 1/2" NPT 1/2" BSP 3/4" NPT 3/4" UNF 3/4" UNF 7/8" UNF 1-1/16" M22x1.5 M26x1.5	FFN-16SF-BSP16 FFN-16SF-NPT16 FFN-16SF-BSP34 FFN-16SF-NPT34 FFN-16SF-UNF34 FFN-16SF-UNF78 FFN-16SF-UNF1116 FFN-16SF-M2215 FFN-16SF-M2615	FFN-16PF-BSP16 FFN-16PF-NPT16 FFN-16PF-BSP34 FFN-16PF-NPT34 FFN-16PF-UNF34 FFN-16PF-UNF78 FFN-16PF-UNF1116 FFN-16PF-M2215 FFN-16PF-M2615
20	19	105	101.6	30	42	42	48	29.95	BSP 3/4" NPT 3/4" BSP 1" NPT 1" UNF 1-1/16" UNF 1-5/16"	FFN-20SF-BSP34 FFN-20SF-NPT34 FFN-20SF-BSP1 FFN-20SF-NPT1 FFN-20SF-UNF1116 FFN-20SF-UNF1516	FFN-20PF-BSP34 FFN-20PF-NPT34 FFN-20PF-BSP1 FFN-20PF-NPT1 FFN-20PF-UNF1116 FFN-20PF-UNF1516
25	25	100.5	109	34	50	50	55	36	BSP 1 NPT 1 BSP 1-1/4" NPT 1-1/4" UNF 1-5/16" UNF 1-5/8"	FFN-25SF-BSP1 FFN-25SF-NPT1 FFN-25SF-BSP114 FFN-25SF-NPT114 FFN-25SF-UNF1516 FFN-25SF-UNF158	FFN-25PF-BSP1 FFN-25PF-NPT1 FFN-25PF-BSP114 FFN-25PF-NPT114 FFN-25PF-UNF1516 FFN-25PF-UNF158

Fluid-tech FM-FFS



The "FFS" couplings are manufactured in stainless steel AISI 316, standard seals are Viton / Fluorocarbon with the option of other seal materials upon request for use with various fluids and operating temperatures. The features of flat face couplings in stainless steel to eliminate leakage during connection-disconnection, reduce contamination in the circuit, and offer optimal resistance to corrosion make "FFS" series ideal for applications such as: offshore, marine, industrial equipment, chemical, Pharmaceutical and food processing.

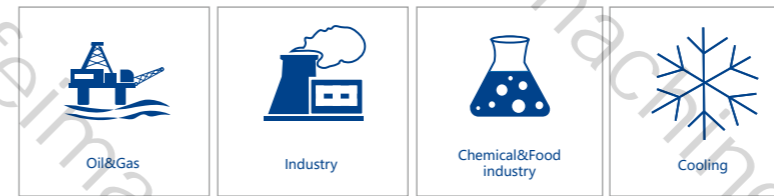
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 16028
- Valving style**
Flat Face
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Stainless steel (AISI 316L)
- Connection system**
Push
- Sealing**
Viton FKM/others on request
- Available sizes**
From 1/4" to 2"
- Operating pressure**
Up to 400 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-15°C / +180°C
- Flow rate**
Up to 1000 l/min
- Available threads**
BSP, NPT, SAE, METRIC

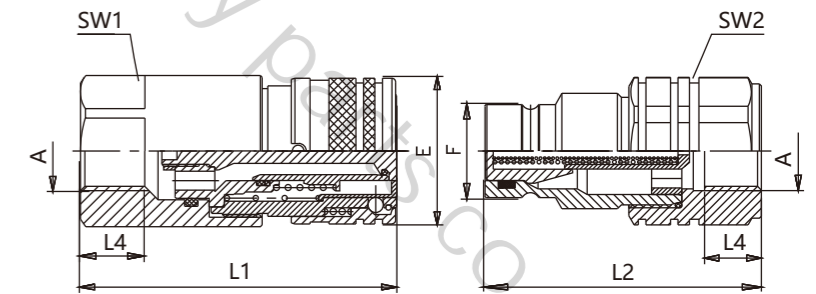
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM	ISO				Male(plug)	Female(socket)	Coupled	
06	6.3	40	12	24	190	190	130	0.008
10	10	35	23	46	160	160	190	0.010
12	12.5	35	45	90	170	160	160	0.012
16	16	35	74	150	140	160	140	0.015
20	19	35	100	200	140	180	140	0.020
25	25	35	189	280	140	150	100	0.030
40	38	27	379	700	60	60	60	0.050
50	51	15	757	1000	40	40	40	0.100

APPLICATIONS



ISO 16028



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	59	52.5	12	22	22	28.5	16.2	BSP 1/4"	FFS-06SF-BSP14	FFS-06PF-BSP14
									NPT 1/4"	FFS-06SF-NPT14	FFS-06PF-NPT14
									BSP 3/8"	FFS-06SF-BSP38	FFS-06PF-BSP38
									NPT 3/8"	FFS-06SF-NPT38	FFS-06PF-NPT38
									UNF 9/16"	FFS-06SF-UNF916	FFS-06PF-UNF916
									M16x1.5	FFS-06SF-M1615	FFS-06PF-M1615
10	10	72	60.5	14	30	30	33	19.8	BSP 3/8"	FFS-10SF-BSP38	FFS-10PF-BSP38
									NPT 3/8"	FFS-10SF-NPT38	FFS-10PF-NPT38
									BSP 1/2"	FFS-10SF-BSP12	FFS-10PF-BSP12
									NPT 1/2"	FFS-10SF-NPT12	FFS-10PF-NPT12
									UNF 9/16"	FFS-10SF-UNF916	FFS-10PF-UNF916
									UNF 3/4"	FFS-10SF-UNF34	FFS-10PF-UNF34
									UNF 7/8"	FFS-10SF-UNF78	FFS-10PF-UNF78
									M16x1.5	FFS-10SF-M1615	FFS-10PF-M1615
									M18x1.5	FFS-10SF-M1815	FFS-10PF-M1815
									M22x1.5	FFS-10SF-M2215	FFS-10PF-M2215
12	12.5	83.7	73	14	36	36	38.5	24.55	BSP 1/2"	FFS-12SF-BSP12	FFS-12PF-BSP12
									NPT 1/2"	FFS-12SF-NPT12	FFS-12PF-NPT12
									BSP 3/4"	FFS-12SF-BSP34	FFS-12PF-BSP34
									NPT 3/4"	FFS-12SF-NPT34	FFS-12PF-NPT34
									UNF 3/4"	FFS-12SF-UNF34	FFS-12PF-UNF34
									UNF 7/8"	FFS-12SF-UNF78	FFS-12PF-UNF78
									UNF 1-1/16"	FFS-12SF-UNF1116	FFS-12PF-UNF1116
									M22x1.5	FFS-12SF-M22x1.5	FFS-12PF-M2215
									M26x1.5	FFS-12SF-M26x1.5	FFS-12PF-M2615
									16	16	86
NPT 1/2"	FFS-16SF-NPT12	FFS-16PF-NPT12									
BSP 3/4"	FFS-16SF-BSP34	FFS-16PF-BSP34									
NPT 3/4"	FFS-16SF-NPT34	FFS-16PF-NPT34									
UNF 3/4"	FFS-16SF-UNF34	FFS-16PF-UNF34									
UNF 7/8"	FFS-16SF-UNF78	FFS-16PF-UNF78									
UNF 1-1/16"	FFS-16SF-UNF1116	FFS-16PF-UNF1116									
M22x1.5	FFS-16SF-M22x1.5	FFS-16PF-M2215									
M26x1.5	FFS-16SF-M26x1.5	FFS-16PF-M2615									
20	19	98.6	86	16	41	41	48.5	29.95			
									NPT 3/4"	FFS-20SF-NPT34	FFS-20PF-NPT34
									BSP 1"	FFS-20SF-BSP1	FFS-20PF-BSP1
									NPT 1"	FFS-20SF-NPT1	FFS-20PF-NPT1
									UNF 1-1/16"	FFS-20SF-UNF1116	FFS-12PF-UNF1116
									UNF 1-5/16"	FFS-20SF-UNF1516	FFS-12PF-UNF1516
25	25	105.5	90	18	55	55	55	36	BSP 1"	FFS-25SF-BSP1	FFS-25PF-BSP1
									NPT 1"	FFS-25SF-NPT1	FFS-25PF-NPT1
									BSP 1-1/4"	FFS-25SF-BSP11/4	FFS-25PF-BSP114
									NPT 1-1/4"	FFS-25SF-NPT11/4	FFS-25PF-NPT114
									UNF 1-5/16"	FFS-25SF-UNF1516	FFS-25PF-UNF1516
									UNF 1-5/8"	FFS-25SF-UNF158	FFS-25PF-UNF158
40	38	132.2	111.5	23	65	65	80	57	BSP 1-1/2"	FFS-40SF-BSP11/2	FFS-40PF-BSP112
									NPT 1-1/2"	FFS-40SF-NPT11/2	FFS-40PF-NPT112
50	51	157	124	24	80	75	100	72.9	BSP 2"	FFS-50SF-BSP2	FFS-50PF-BSP2
									NPT 2"	FFS-50SF-NPT2	FFS-50PF-NPT2

Interchange FM-FPC

FPC Series coupling can connect under pressure up to 250 bar locked in the male half, female half must have zero pressure when connecting male half under pressure, it can be used in the host environments where thermal expansion of trapped oil may take place. These couplings are also used for construction plant, mobile equipment, general industrial, nuclear, mining and agricultural industries, The ease of cleaning makes them ideal for use in these types of hostile environments.



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 16028
- Valving style**
Flat Face
- Connection Under Pressure**
allowed
- Material / Treatment**
Carbon steel, Zn-Ni
- Connection system**
Push
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 3/8" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 280 l/min
- Available threads**
BSP, NPT, SAE, ORFS, JIC

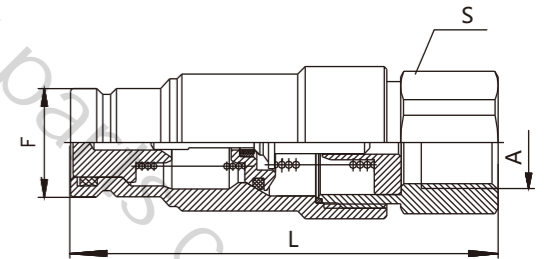
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure		Fluid Spillage
FM	ISO				Male(plug)	Coupled	
10	10	Mpa	l/min	l/min	Mpa	Mpa	CC
10	10	35	23	46	140	140	0.010
12	12.5	35	45	90	140	140	0.012
16	16	35	74	150	140	140	0.015
20	19	30	100	200	120	120	0.020
25	25	30	189	280	120	120	0.030

APPLICATIONS



ISO 16028



PRODUCT PARAMETER

FM	ISO	L	S	F	A	COD.(Male)
10	10	90.2	30	19.8	BSP 3/8" NPT 3/8" BSP 1/2" NPT 1/2" UNF 9/16" UNF 3/4"	FPC-06PF-BSP38 FPC-06PF-NPT38 FPC-06PF-BSP12 FPC-06PF-NPT38 FPC-06PF-UNF916 FPC-06PF-UNF34
12	12.5	94.8	32	24.55	BSP 1/2" NPT 1/2" UNF 3/4" UNF 7/8" BSP 3/4" NPT 3/4" UNF 1-1/16"	FPC-08PF-BSP12 FPC-08PF-NPT12 FPC-08PF-BSP34 FPC-08PF-NPT78 FPC-08PF-BSP34 FPC-08PF-NPT34 FPC-08PF-UNF1116
			34			
16	16	99.7	36	27	BSP 1/2" NPT 1/2" UNF 3/4" UNF 7/8" BSP 3/4" NPT 3/4" UNF 1-1/16"	FPC-10PF-BSP12 FPC-10PF-NPT12 FPC-10PF-BSP34 FPC-10PF-NPT78 FPC-10PF-BSP34 FPC-10PF-NPT34 FPC-10PF-UNF1116
20	19	105	41	29.95	BSP 3/4" NPT 3/4" BSP 1" NPT 1" M30*1.5 UNF 1-1/16" UNF 1-5/16"	FPC-12PF-BSP34 FPC-12PF-NPT34 FPC-12PF-BSP1 FPC-12PF-NPT1 FPC-12PF-M30*15 FPC-12PF-UNF1116 FPC-12PF-UNF1516
25	25	120	50	36	BSP 1" NPT 1" UNF 1-5/16"	FPC-16PF-BSP1 FPC-16PF-NPT1 FPC-16PF-UNF1516
			55		BSP 1-1/4" NPT 1-1/4" UNF 1-5/8"	FPC-16PF-BSP114 FPC-16PF-NPT114 FPC-16PF-UNF158

INTERCHANGE

Parker FEC
Dnp PLK4
Faster 3FFH
Stucchi APM
Holmbury HCP
Eaton FFCUP

Fluid-tech FM-FBC

It is applied in Quik changeover of construction equipment attachments, Skid steer loaders, Track loaders, Excavators, Compact loaders, Utility vehicles, etc.



TECHNICAL SPECIFICATIONS AND OPTIONS

- **Interchange**
ISO 16028
- **Valving style**
Flat Face
- **Connection Under Pressure**
Not allowed
- **Material / Treatment**
Carbon steel, Zn-Ni
- **Connection system**
Push
- **Sealing**
Nitrile NBR/others on request
- **Available sizes**
1/2", 3/4"
- **Operating pressure**
Up to 350 bar
- **Locking mechanism**
Locking ball, Safety lock
- **Temperature**
-20°C / +100°C
- **Flow rate**
Up to 230 l/min
- **Available threads**
METRIC

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
12	12.5	35	45	200	130	100	140	0.01
20	19	35	100	230	110	100	140	0.02

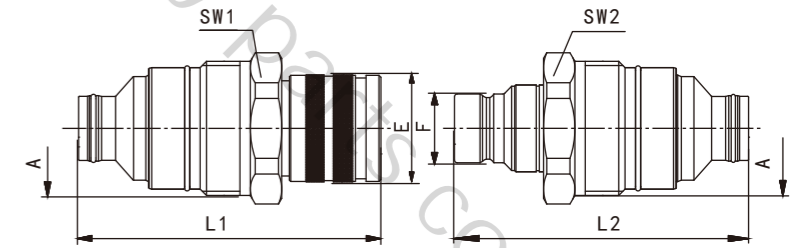
APPLICATIONS



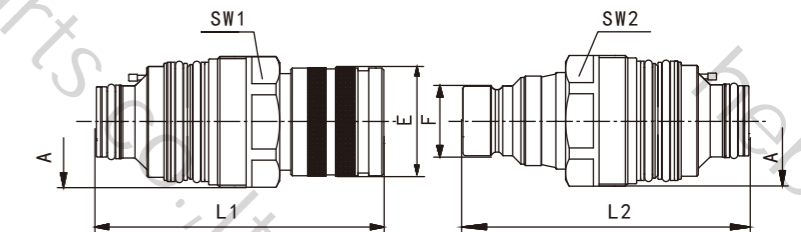
ISO 16028

PRODUCT PARAMETER

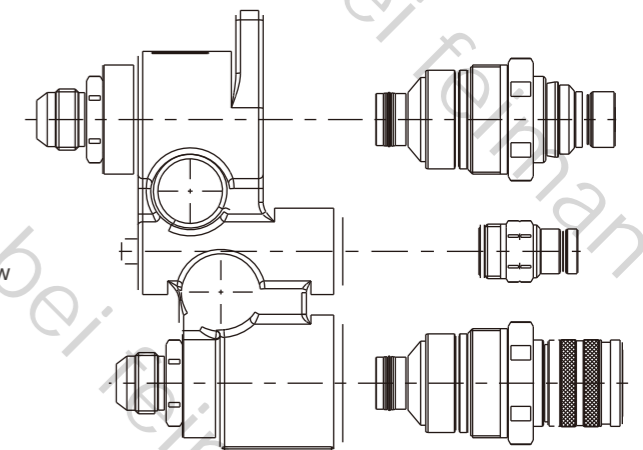
FM	ISO	L1	L2	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
12	12.5	108	105	50	38	38	24.55	M48x1.5	FBC-12SM-M4815	FBC-12PM-M4815



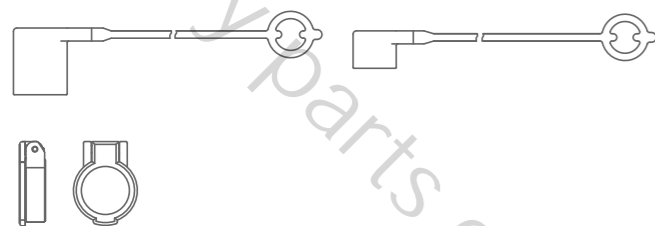
FM	ISO	L1	L2	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
12	12.5	108	105	50	50	38	24.55	M46x1.5	FBC-12SM-M4615	FBC-12PM-M4615



- Operator friendly decompression system allows for easy connection and disconnection with trapped residual pressure.
- Pull activation feature prevents accidental system decompression
- All couplings are flat face and are designed to the ISO 16028 Standard
- Low profile coupling design minimises side loading
- Coupling arrangement can be ordered in 1/2" (Size 12) for standard flow or 3/4" (Size 19) for high flow applications.
- Case drain coupling is standard 3/8" (Size 10)
- Low cost replacement couplings
- Accessible design allows for servicing of internal components



PROTECTIVE CAPS FOR ISO16028 SERIES



Description		Part Code		Plastic Material
FM	Body size	Female Dust Cap	Male Dust Cap	Color
06	1/4"	FM06-P-FFP	FM06-P-FFC	Red
10	3/8"	FM10-P-FFP	FM10-P-FFC	Red
12	1/2"	FM12-P-FFP	FM12-P-FFC	Red
16	5/8"	FM16-P-FFP	FM16-P-FFC	Red
20	3/4"	FM20-P-FFP	FM20-P-FFC	Red
25	1"	FM25-P-FFP	FM25-P-FFC	Red

Description		Part Code	Plastic Material
FM	Body size	Automatic Dust Cap	Color
12	1/2"	FM12-PP	Red



Fluid-tech FM-HVV



"HVV" series is a screw to connect coupling with poppet style valving. Made in high strength steel with Cr III zinc plating and NBR sealing, they are interchangeable with similar couplings existing on the market. They add the resistance of the particular design to the robustness of the screw connection.

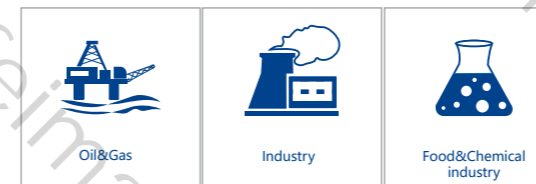
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 14541
- Valving style**
Poppet valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4", 3/8", 1/2", 3/4", 1", 1-1/4"
- Operating pressure**
Up to 450 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 480 l/min
- Available threads**
BSP, NPT, METRIC, SAE

TECHNICAL DATA

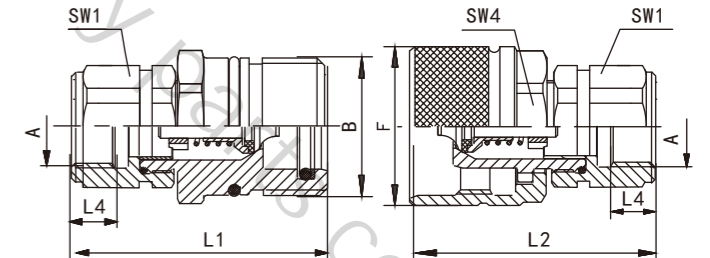
Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	45	12	17	190	270	250	0.8
10	10	40	23	46	130	150	180	1.4
12	12.5	40	45	90	120	150	140	2.7
20	20	30	106	190	100	130	140	9.3
25	25	30	189	280	100	130	140	16
31	31.5	30	288	480	100	100	100	30

APPLICATIONS

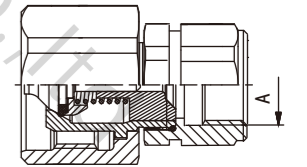


ISO 14541

Male Thread with 24° Conical Bore



For the Version with Hexagonal Sleeve, please add "-HX" behind the Ordering Code.



Hexagonal Sleeve version

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW4	B	F	A	COD.(Female)	COD.(Male)
06	6.3	58	57	14	19	27	M24x2	30	BSP 1/4" NPT 1/4"	HVV-06SF-BSP14 HVV-06SF-NPT14	HVV-06PF-BSP14 HVV-06PF-NPT14
10	10	63 63 64	60 60 61	14 14 14.5	22 22 22	30 30 30	M28x2 M28x2 M28x2	34 34 34	BSP 1/4" NPT 1/4" BSP 3/8"	HVV-10SF-BSP14 HVV-10SF-NPT14 HVV-10SF-BSP38	HVV-10PF-BSP14 HVV-10PF-NPT14 HVV-10PF-BSP38
12	12.5	72 72 72 72 72 72 72 75 75 75	66 66 66 66 66 66 66 69 69 69	15 15 15 17 15 15 15 17 17 17	27 27 27 27 27 27 27 27 27 27	36 36 36 36 36 36 36 36 36 36	M36x2 M36x2 M36x2 M36x2 M36x2 M36x2 M36x2 M36x2 M36x2 M36x2	42 42 42 42 42 42 42 42 42 42	NPT 3/8" UNF 9/16" M16x1.5 M18x1.5 BSP 3/8" NPT 3/8" BSP 1/2" NPT 1/2" M22x1.5	HVV-12SF-NPT38 HVV-12SF-UNF916 HVV-12SF-M1615 HVV-12SF-M1815 HVV-12SF-BSP38 HVV-12SF-NPT38 HVV-12SF-BSP12 HVV-12SF-NPT12 HVV-12SF-M2215	HVV-12PF-NPT38 HVV-12PF-UNF916 HVV-12PF-M1615 HVV-12PF-M1815 HVV-12PF-BSP38 HVV-12PF-NPT38 HVV-12PF-BSP12 HVV-12PF-NPT12 HVV-12PF-M2215
20	20	80 80 83 83 80 80 80 80	83 83 86 86 83 83 83 83	19 19 22 22 16 16 16 19	36 36 36 36 36 36 36 36	41 41 41 41 41 41 41 41	M42x2 M42x2 M42x2 M42x2 M42x2 M42x2 M42x2 M42x2	47 47 47 47 47 47 47 47	BSP 1/2" NPT 1/2" BSP 3/4" NPT 3/4" M18x1.5 M22x1.5 M26x1.5	HVV-20SF-BSP12 HVV-20SF-NPT12 HVV-20SF-BSP34 HVV-20SF-NPT34 HVV-20SF-NPT34 HVV-20SF-M1815 HVV-20SF-M2215 HVV-20SF-M2615	HVV-20PF-BSP12 HVV-20PF-NPT12 HVV-20PF-BSP34 HVV-20PF-NPT34 HVV-20PF-NPT34 HVV-20PF-M1815 HVV-20PF-M2215 HVV-20PF-M2615
25	25	95 95 95 95 95	95 95 95 95 95	22 22 22 22 22	41 41 41 41 41	50 50 50 50 50	M48x3 M48x3 M48x3 M48x3 M48x3	56 56 56 56 56	BSP 3/4" NPT 3/4" BSP 1" NPT 1" M30x20	HVV-25SF-BSP34 HVV-25SF-NPT34 HVV-25SF-BSP1 HVV-25SF-NPT1 HVV-25SF-M3020	HVV-25PF-BSP34 HVV-25PF-NPT34 HVV-25PF-BSP1 HVV-25PF-NPT1 HVV-25PF-M3020
31	31.5	126 126 126 126	122 122 122 122	22 22 22 22	55 55 55 55	75 75 75 75	M70x3 M70x3 M70x3 M70x3	80 80 80 80	BSP 1-1/4" NPT 1-1/4" BSP 1-1/2" NPT 1-1/2"	HVV-31SF-BSP114 HVV-31SF-NPT114 HVV-31SF-BSP112 HVV-31SF-NPT112	HVV-31PF-BSP114 HVV-31PF-NPT114 HVV-31PF-BSP112 HVV-31PF-NPT112

Interchange FM-HVV

"HV" series is a screw to connect coupling with poppet style valving. Made in high strength steel with Cr III zinc plating and NBR sealing, they are interchangeable with similar couplings existing on the market. They add the resistance of the particular design to the robustness of the screw connection.



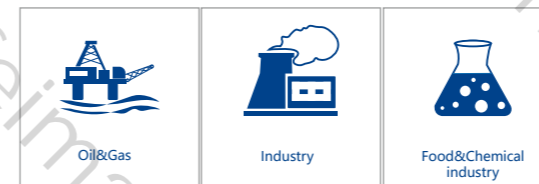
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 14541
- Valving style**
Poppet valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/8", 1/4", 3/8", 1/2", 3/4", 1", 1-1/4"
- Operating pressure**
Up to 450 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 480 l/min
- Available threads**
METRIC (BSP, NPT and SAE are available)

TECHNICAL DATA

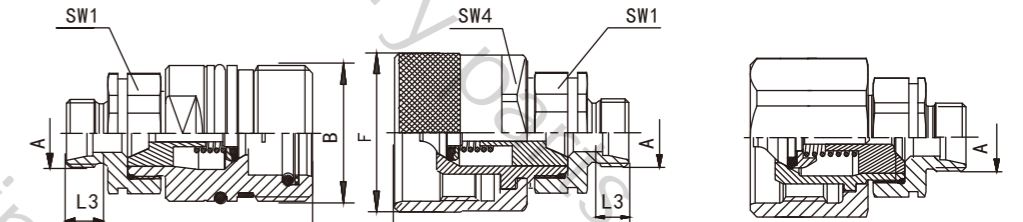
Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	45	12	17	190	270	250	0.8
10	10	40	23	46	130	150	180	1.4
12	12.5	40	45	90	120	150	140	2.7
20	20	30	106	190	100	130	140	9.3
25	25	30	189	280	100	130	140	16
31	31.5	30	288	480	100	100	100	30

APPLICATIONS



ISO 14541

Male Thread with 24° Conical Bore



For the Version with Hexagonal Sleeve, please add "-HX" behind the Ordering Code.

PRODUCT PARAMETER

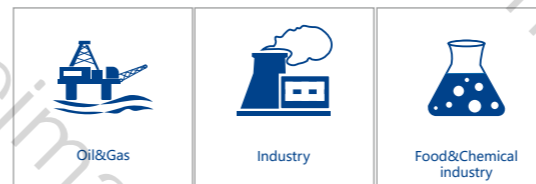
FM	ISO	L1	L2	L3	SW1	SW4	B	F	D2	A	COD.(Female)	COD.(Male)
06	6.3	58.0	57.0	10	19	27	M24x2	30	08L	M14x1.5	HVV-06SF-M1415	HVV-06PF-M1415
10	10	63.0	60.0	10	22	30	M28x2	34	06L	M12x1.5	HVV-10SF-M1215	HVV-10PF-M1215
		63.0	60.0	10	22	30	M28x2	34	08L	M14x1.5	HVV-10SF-M1415	HVV-10PF-M1415
		64.0	61.0	11	22	30	M28x2	34	10L	M16x1.5	HVV-10SF-M1615	HVV-10PF-M1615
		64	61.0	11	22	30	M28x2	34	08S	M16x1.5	HVV-10SF-M1615H	HVV-10PF-M1615H
12	12.5	64	61.0	11	22	30	M28x2	34	10S	M18x1.5	HVV-10SF-M1815H	HVV-10PF-M1815H
		64	61.0	11	22	30	M28x2	34	12S	M20x1.5	HVV-10SF-M2015H	HVV-10PF-M2015H
		68.5	62.0	10	27	36	M36x2	42	08L	M14x1.5	HVV-12SF-M1415	HVV-12PF-M1415
		69.5	63.0	11	27	36	M36x2	42	10L	M16x1.5	HVV-12SF-M1615	HVV-12PF-M1615
		69.5	63.0	11	27	36	M36x2	42	12L	M18x1.5	HVV-12SF-M1815	HVV-12PF-M1815
		70.5	65.0	12	27	36	M36x2	42	15L	M22x1.5	HVV-12SF-M2215	HVV-12PF-M2215
		70.5	65.0	12	27	36	M36x2	42	18L	M26x1.5	HVV-12SF-M2615	HVV-12PF-M2615
		70.5	65.0	12	27	36	M36x2	42	10S	M18x1.5	HVV-12SF-M1815H	HVV-12PF-M1815H
		70.5	65.0	12	27	36	M36x2	42	12S	M20x1.5	HVV-12SF-M2015H	HVV-12PF-M2015H
		72.5	67.0	14	27	36	M36x2	42	14S	M22x1.5	HVV-12SF-M2215H	HVV-12PF-M2215H
20	20	72.5	67.0	14	27	36	M36x2	42	16S	M24x1.5	HVV-12SF-M2415H	HVV-12PF-M2415H
		74.5	69.0	16	30	36	M36x2	42	20S	M30x2.0	HVV-12SF-M3020H	HVV-12PF-M3020H
		71.5	70.5	11	36	41	M42x2	47	12L	M18x1.5	HVV-20SF-M1815	HVV-20PF-M1815
		71.5	70.5	11	36	41	M42x2	47	15L	M22x1.5	HVV-20SF-M2215	HVV-20PF-M2215
		72.5	71.5	12	36	41	M42x2	47	18L	M26x1.5	HVV-20SF-M2615	HVV-20PF-M2615
		74.5	73.5	14	36	41	M42x2	47	22L	M30x2.0	HVV-20SF-M3020	HVV-20PF-M3020
		72.5	71.5	12	36	41	M42x2	47	10S	M18x1.5	HVV-20SF-M1815H	HVV-20PF-M1815H
		72.5	71.5	12	36	41	M42x2	47	12S	M20x1.5	HVV-20SF-M2015H	HVV-20PF-M2015H
		74.5	73.5	14	36	41	M42x2	47	14S	M22x1.5	HVV-20SF-M2215H	HVV-20PF-M2215H
		74.5	73.5	14	36	41	M42x2	47	16S	M24x1.5	HVV-20SF-M2415H	HVV-20PF-M2415H
25	25	76.5	75.5	16	36	41	M42x2	47	20S	M30x2.0	HVV-20SF-M3020H	HVV-20PF-M3020H
		84.0	84.0	12	41	50	M48x3	56	18L	M26x1.5	HVV-25SF-M2615	HVV-25PF-M2615
		86.0	86.0	14	41	50	M48x3	56	22L	M30x2.0	HVV-25SF-M3020	HVV-25PF-M3020
		86.0	86.0	14	41	50	M48x3	56	28L	M36x2.0	HVV-25SF-M3620	HVV-25PF-M3620
		88.0	88.0	16	46	50	M48x3	56	35L	M42x2.0	HVV-25SF-M4220	HVV-25PF-M4220
		88.0	88.0	16	41	50	M48x3	56	20S	M30x2.0	HVV-25SF-M3020H	HVV-25PF-M3020H
		90.0	90.0	18	41	50	M48x3	56	25S	M36x2.0	HVV-25SF-M3620H	HVV-25PF-M3620H
		92.0	92.0	20	46	50	M48x3	56	30S	M42x2.0	HVV-25SF-M4220H	HVV-25PF-M4220H
		94.0	94.0	22	55	50	M48x3	56	38S	M52x2.0	HVV-25SF-M5220H	HVV-25PF-M5220H
		31	31.5	126	122	16	55	75	M70x3	80	35L	M42x2.0
126	122			16	55	75	M70x3	80	42L	M52x2.0	HVV-31SF-M5220	HVV-31PF-M5220
130	126			20	55	75	M70x3	80	30S	M42x2.0	HVV-31SF-M4220H	HVV-31PF-M4220H
130	126			20	55	75	M70x3	80	38S	M52x2.0	HVV-31SF-M5220H	HVV-31PF-M5220H

Interchange FM-HVV

"HVV" series is a screw to connect coupling with poppet style valving. Made in high strength steel with Cr III zinc plating and NBR sealing, they are interchangeable with similar couplings existing on the market. They add the resistance of the particular design to the robustness of the screw connection.

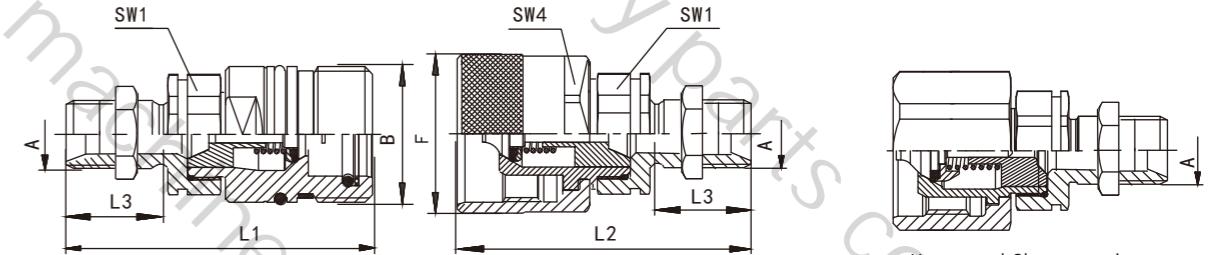


APPLICATIONS



ISO 14541

Male Thread with 24° Conical Bore



For the Version with Hexagonal Sleeve, please add "-HX" behind the Ordering Code.

TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 14541
- Valving style**
Poppet valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4", 3/8", 1/2", 3/4", 1", 1-1/4"
- Operating pressure**
Up to 450 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 480 l/min
- Available threads**
METRIC (BSP, NPT and SAE are available)

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	45	12	17	190	270	250	0.8
10	10	40	23	46	130	150	180	1.4
12	12.5	40	45	90	120	150	140	2.7
20	20	30	106	190	100	130	140	9.3
25	25	30	189	280	100	130	140	16
31	31.5	30	288	480	100	100	100	30

PRODUCT PARAMETER

FM	ISO	L1	L2	L3	SW1	SW4	B	F	D2	A	COD.(Female)	COD.(Male)
06	6.3	73.5	72.5	25.5	19	27	M24x2	30	08L	M14x1.5	HVV-06SF-M1415L	HVV-06PF-M1415L
10	10	78.5	75.5	25.5	22	30	M28x2	34	06L	M12x1.5	HVV-10SF-M1215L	HVV-10PF-M1215L
		78.5	75.5	25.5	22	30	M28x2	34	08L	M14x1.5	HVV-10SF-M1415L	HVV-10PF-M1415L
		79.5	76.5	25.5	22	30	M28x2	34	10L	M16x1.5	HVV-10SF-M1615L	HVV-10PF-M1615L
		79.5	76.5	25.5	22	30	M28x2	34	08S	Heavy duty M16x1.5	HVV-10SF-M1615HL	HVV-10PF-M1615HL
		79.5	76.5	25.5	22	30	M28x2	34	10S	M18x1.5	HVV-10SF-M1815HL	HVV-10PF-M1815HL
12	12.5	79.5	76.5	25.5	22	30	M28x2	34	12S	M20x1.5	HVV-10SF-M2015HL	HVV-10PF-M2015HL
		84.0	77.5	25.5	27	36	M36x2	42	08L	M14x1.5	HVV-12SF-M1415L	HVV-12PF-M1415L
		84.0	77.5	25.5	27	36	M36x2	42	10L	M16x1.5	HVV-12SF-M1615L	HVV-12PF-M1615L
		84.0	77.5	25.5	27	36	M36x2	42	12L	M18x1.5	HVV-12SF-M1815L	HVV-12PF-M1815L
		84.0	77.5	25.5	27	36	M36x2	42	15L	M22x1.5	HVV-12SF-M2215L	HVV-12PF-M2215L
		87.5	82.0	29.0	27	36	M36x2	42	18L	M26x1.5	HVV-12SF-M2615L	HVV-12PF-M2615L
		84.0	77.5	25.5	27	36	M36x2	42	10S	Heavy duty M18x1.5	HVV-12SF-M1815HL	HVV-12PF-M1815HL
		84.0	77.5	25.5	27	36	M36x2	42	12S	M20x1.5	HVV-12SF-M2015HL	HVV-12PF-M2015HL
		84.0	77.5	25.5	27	36	M36x2	42	14S	M22x1.5	HVV-12SF-M2215HL	HVV-12PF-M2215HL
		87.5	84.0	29.0	27	36	M36x2	42	16S	M24x1.5	HVV-12SF-M2415HL	HVV-12PF-M2415HL
87.5	84.0	29.0	30	36	M36x2	42	20S	M30x2.0	HVV-12SF-M3020HL	HVV-12PF-M3020HL		
20	20	86.0	85.0	25.5	36	41	M42x2	47	12L	M18x1.5	HVV-20SF-M1815L	HVV-20PF-M1815L
		86.0	85.0	25.5	36	41	M42x2	47	15L	M22x1.5	HVV-20SF-M2215L	HVV-20PF-M2215L
		93.5	92.5	33.0	36	41	M42x2	47	18L	M26x1.5	HVV-20SF-M2615L	HVV-20PF-M2615L
		93.5	92.5	33.0	36	41	M42x2	47	22L	M30x2.0	HVV-20SF-M3020L	HVV-20PF-M3020L
		86.0	85.0	25.5	36	41	M42x2	47	10S	Heavy duty M18x1.5	HVV-20SF-M1815HL	HVV-20PF-M1815HL
		86.0	85.0	25.5	36	41	M42x2	47	12S	M20x1.5	HVV-20SF-M2015HL	HVV-20PF-M2015HL
		86.0	85.0	25.5	36	41	M42x2	47	14S	M22x1.5	HVV-20SF-M2215HL	HVV-20PF-M2215HL
		93.5	92.5	33.0	36	41	M42x2	47	16S	M24x1.5	HVV-20SF-M2415HL	HVV-20PF-M2415HL
		93.5	92.5	33.0	36	41	M42x2	47	20S	M30x2.0	HVV-20SF-M3020HL	HVV-20PF-M3020HL
		25	25	105	105	33.0	41	50	M48x3	56	18L	M26x1.5
105	105			33.0	41	50	M48x3	56	22L	M30x2.0	HVV-25SF-M3020L	HVV-25PF-M3020L
105	105			33.0	41	50	M48x3	56	28L	M36x2.0	HVV-25SF-M3620L	HVV-25PF-M3620L
112	112			40.0	46	50	M48x3	56	35L	M45x2.0	HVV-25SF-M4520L	HVV-25PF-M4520L
105	105			33.0	41	50	M48x3	56	20S	Heavy duty M30x2.0	HVV-25SF-M3020HL	HVV-25PF-M3020HL
108	108			38.0	41	50	M48x3	56	25S	M36x2.0	HVV-25SF-M3620HL	HVV-25PF-M3620HL
112	112			40.0	46	50	M48x3	56	30S	M42x2.0	HVV-25SF-M4220HL	HVV-25PF-M4220HL
125	125			53.0	55	50	M48x3	56	38S	M52x2.0	HVV-25SF-M5220HL	HVV-25PF-M5220HL
31	31.5	150	146	40.0	55	75	M70x3	80	35L	M45x2.0	HVV-31SF-M4520L	HVV-31PF-M4520L
		153	149	53.0	55	75	M70x3	80	40L	M52x2.0	HVV-31SF-M5220L	HVV-31PF-M5220L
		150	146	40.0	55	75	M70x3	80	30L	Heavy duty M42x2.0	HVV-31SF-M4220HL	HVV-31PF-M4220HL
		153	149	53.0	55	75	M70x3	80	38L	M52x2.0	HVV-31SF-M5220HL	HVV-31PF-M5220HL

Interchange FM-HVV

"HV" series is a screw to connect coupling with poppet style valving. Made in high strength steel with Cr III zinc plating and NBR sealing, they are interchangeable with similar couplings existing on the market. They add the resistance of the particular design to the robustness of the screw connection.



TECHNICAL SPECIFICATIONS AND OPTIONS

- **Interchange**
ISO 14541
- **Valving style**
Poppet valve
- **Connection Under Pressure**
Not allowed
- **Material / Treatment**
Carbon steel, Cr3
- **Connection system**
Screw
- **Sealing**
Nitrile NBR/others on request
- **Available sizes**
3/8", 1/2"
- **Operating pressure**
Up to 450 bar
- **Locking mechanism**
Screw to connect
- **Temperature**
-20°C / +100°C
- **Flow rate**
Up to 480 l/min
- **Available threads**
METRIC (BSP, NPT and SAE are available)

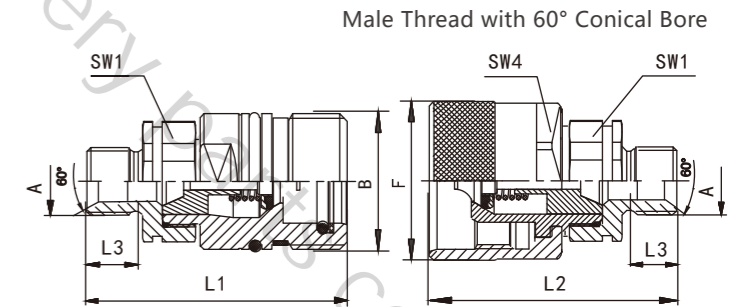
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
10	10	40	23	46	130	150	180	1.4
12.5	12.5	40	45	90	120	150	140	2.7

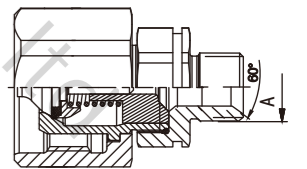
APPLICATIONS



ISO 14541



For the Version with Hexagonal Sleeve, please add "-HX" behind the Ordering Code.



Hexagonal Sleeve version

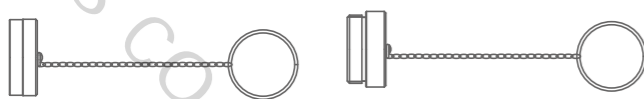
PRODUCT PARAMETER

FM	ISO	L1	L2	L3	SW1	SW4	B	F	A	COD.(Female)	COD.(Male)
10	10	64	60	12	22	30	M28x2	34	BSP1/4"	HVV-10SM-BSP14W	HVV-10PM-BSP14W
		64	60	12	22	30	M28x2	34	BSP3/8"	HVV-10SM-BSP38W	HVV-10PM-BSP38W
12.5	12.5	65.5	62	10	27	36	M36x2	42	BSP3/8"	HVV-12SM-BSP38W	HVV-12PM-BSP38W
		66.5	63	11	27	36	M36x2	42	BSP1/2"	HVV-12SM-BSP12W	HVV-12PM-BSP12W
		65.5	63	11	27	36	M36x2	42	M16x1.5	HVV-12SM-M1615W	HVV-12PM-M1615W
		69.5	65	12	27	36	M36x2	42	M20x1.5	HVV-12SM-M2015W	HVV-12PM-M2015W
		69.5	65	12	27	36	M36x2	42	M22x1.5	HVV-12SM-M2215W	HVV-12PM-M2215W

PROTECTIVE CAPS FOR ISO14541 SERIES



Description		Part Code		Plastic Material
FM	Body size	Female Dust Plug	Male Dust Cap	Color
06	1/4"	FM06-P-HVP	FM06-P-HVC	Red
10	3/8"	FM10-P-HVP	FM10-P-HVC	Red
12	1/2"	FM12-P-HVP	FM12-P-HVC	Red
20	3/4"	FM20-P-HVP	FM20-P-HVC	Red
25	1"	FM25-P-HVP	FM25-P-HVC	Red



Description		Part Code		Material
FM	Body size	Female Dust Plug	Male Dust Cap	
06	1/4"	FM06-A-HVP	FM06-A-HVC	Aluminum
10	3/8"	FM10-A-HVP	FM10-A-HVC	Aluminum
12	1/2"	FM12-A-HVP	FM12-A-HVC	Aluminum
16	3/4"	FM20-A-HVP	FM20-A-HVC	Aluminum
20	1"	FM25-A-HVP	FM25-A-HVC	Aluminum
31	1-1/4"	FM31-A-HVP	FM31-A-HVC	Aluminum

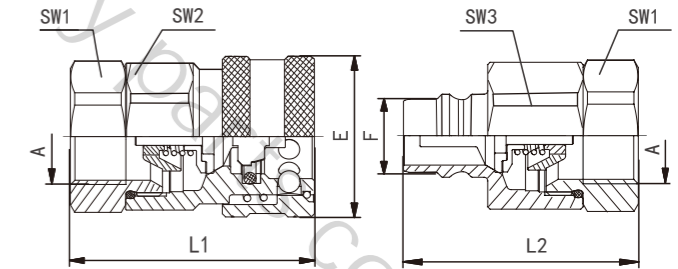


Fluid-tech FM-KNV

KNV series designed for usage in general hydraulic systems, machine tool, test equipment, agricultural, and other mobile hydraulics.



US MARKET



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
With similar couplings
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4", 3/8", 1/2", 3/4" 1", 1-1/4", 1-1/2", 2"
- Operating pressure**
Up to 500 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 1000 l/min
- Available threads**
BSP, NPT

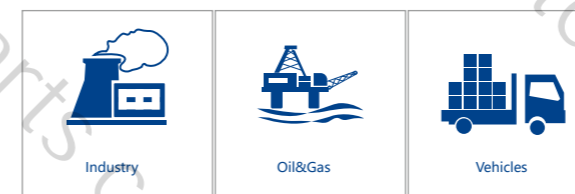
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM	ISO				Male(plug)	Female(socket)	Coupled	
06	6.3	50	12	24	186	164	165	2
10	10	40	23	46	178	202	131	3.2
12	12.5	30	45	90	114	104	105	4
20	19	25	106	212	64	99	103	14
25	25	16	189	380	53	50	64	20
30	31.5	12	288	576	37	50	35	45
40	40	11	379	757	34	46	34	80
50	50	10	757	1000	35	44	37	150

PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	SW3	E	F	A	COD.(Female)	COD.(Male)
06	6.3	47.7	22	22	22	22	25.6	10.8	BSP 1/4" NPT 1/4"	KNV-06SF-BSP14 KNV-06SF-NPT14	KNV-06PF-BSP14 KNV-06PF-NPT14
10	10	56	24	24	25.4	25.4	30.6	12.8	BSP 3/8" NPT 3/8"	KNV-10SF-BSP38 KNV-10SF-NPT38	KNV-10PF-BSP38 KNV-10PF-NPT38
12	12.5	53.5	30	30	32	32	35	16	BSP 1/2" NPT 1/2"	KNV-12SF-BSP12 KNV-12SF-NPT12	KNV-12PF-BSP12 KNV-12PF-NPT12
20	20	64.4	36	36	38	38	42	23.4	BSP 3/4" NPT 3/4"	KNV-20SF-BSP34 KNV-20SF-NPT34	KNV-20PF-BSP34 KNV-20PF-NPT34
25	25	68.5	46	46	47.5	47.5	52	29.7	BSP 1" NPT 1"	KNV-25SF-BSP1 KNV-25SF-NPT1	KNV-25PF-BSP1 KNV-25PF-NPT1
30	31.5	91.4	50	50	51	51	56.7	36	BSP 1-1/4" NPT 1-1/4"	KNV-30SF-BSP114 KNV-30SF-NPT114	KNV-30PF-BSP114 KNV-30PF-NPT114
40	40	90	63.5	63.5	63.5	63.5	69.6	43.3	BSP 1-1/2" NPT 1-1/2"	KNV-40SF-BSP112 KNV-40SF-NPT112	KNV-40PF-BSP112 KNV-40PF-NPT112
50	50	105.5	89	89	89	89	90	56.7	BSP 2" NPT 2"	KNV-50SF-BSP2 KNV-50SF-NPT2	KNV-50PF-BSP2 KNV-50PF-NPT2

APPLICATIONS



INTERCHANGE

Parker H/PH
Dnp PNV
Faster TNV
Holmbury HTN
Dixon V
Snap Tite H/1H

Fluid-tech FM-KNVSS

KNVSS series designed for usage in general hydraulic systems, machine tool, test equipment, agricultural, and other mobile hydraulics.



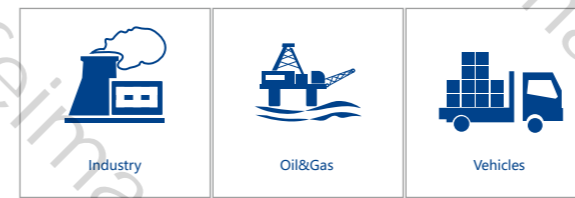
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
With similar couplings
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Stainless steel (AISI 316L)
- Connection system**
Single acting sleeve
- Sealing**
Viton FKM/others on request
- Available sizes**
1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C / +200°C
- Flow rate**
Up to 1000 l/min
- Available threads**
BSP, NPT

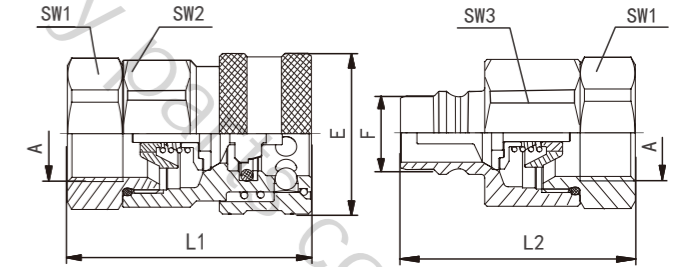
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	24	180	164	143	2
10	10	30	23	46	120	210	180	3.2
12	12.5	25	45	90	84	78	77	4
20	19	14	106	212	47	43	78	14
25	25	14	189	380	71	76	75	20
30	31.5	10	288	576	37	50	35	45
40	40	10	379	757	34	46	34	80
50	50	3.5	757	1000	10	11	10	150

APPLICATIONS



US MARKET



PRODUCT PARAMETER

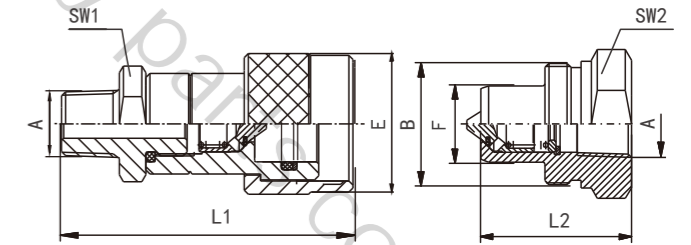
FM	ISO	L1	L2	SW1	SW2	SW3	E	F	A	COD.(Female)	COD.(Male)
06	6.3	47.7	45.6	22	22	22	25.6	10.8	BSP 1/4" NPT 1/4"	KNVSS-06SF-BSP14 KNVSS-06SF-NPT14	KNVSS-06PF-BSP14 KNVSS-06PF-NPT14
10	10	56	54.5	24	25.4	25.4	30.6	12.8	BSP 3/8" NPT 3/8"	KNVSS-10SF-BSP38 KNVSS-10SF-NPT38	KNVSS-10PF-BSP38 KNVSS-10PF-NPT38
12	12.5	53.5	50	30	32	32	35	16	BSP 1/2" NPT 1/2"	KNVSS-12SF-BSP12 KNVSS-12SF-NPT12	KNVSS-12PF-BSP12 KNVSS-12PF-NPT12
20	20	64.4	64	36	38	38	42	23.4	BSP 3/4" NPT 3/4"	KNVSS-20SF-BSP34 KNVSS-20SF-NPT34	KNVSS-20PF-BSP34 KNVSS-20PF-NPT34
25	25	68.5	66.4	46	47.5	47.5	52	29.7	BSP 1" NPT 1"	KNVSS-25SF-BSP1 KNVSS-25SF-NPT1	KNVSS-25PF-BSP1 KNVSS-25PF-NPT1
30	31.5	91.4	87.5	50	51	51	56.7	36	BSP 1-1/4" NPT 1-1/4"	KNVSS-30SF-BSP114 KNVSS-30SF-NPT114	KNVSS-30PF-BSP114 KNVSS-30PF-NPT114
40	40	90	85.4	63.5	63.5	63.5	69.6	43.3	BSP 1-1/2" NPT 1-1/2"	KNVSS-40SF-BSP112 KNVSS-40SF-NPT112	KNVSS-40PF-BSP112 KNVSS-40PF-NPT112
50	50	105.5	99.5	89	89	89	90	56.7	BSP 2" NPT 2"	KNVSS-50SF-BSP2 KNVSS-50SF-NPT2	KNVSS-50PF-BSP2 KNVSS-50PF-NPT2

Fluid-tech
FM-HVM

"HVM" is a screw to connect coupling series with poppet valves. This series is intended for high pressure hydraulic applications up to 700 bar / 10152 psi. The couplings are manufactured with high resistance carbon steel with zinc plated treatment. They are interchangeable with similar couplings existing on the market and used mainly for hydraulic jacks and cylinders.



**ISO
14540**



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO 14540
- Valving style**
Poppe valve
- Connection Under Pressure**
Allowed (Max residual pressure: 100 bar)
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4", 3/8"
- Operating pressure**
Up to 700 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 23 l/min
- Available threads**
NPT

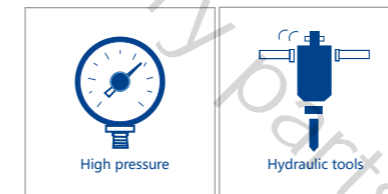
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	70	12	12	150	200	220	0.2
10	10	70	23	23	150	200	220	0.6

PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	B	E	F	A	COD.(Female)	COD.(Male)
06	6.3	60	33	21	29	1"-18UNS	29	15.9	NPT 1/4"	HVM-06SM-NPT14	HVM-06PF-NPT14
10	10	73	40	25	32	1*3/16-16UN	35	19	NPT 3/8"	HVM-10SM-NPT38	HVM-10PF-NPT38

APPLICATIONS



INTERCHANGE

- Parker 3000
- Drp DNP
- Faster PVVM/PVSM
- Holmbury PSB/PSP
- Dixon T
- Stucchi IVHP
- Snap Tite 76
- Tomco JCP
- Enerpac C-604

PROTECTIVE CAPS FOR ISO14540 SERIES



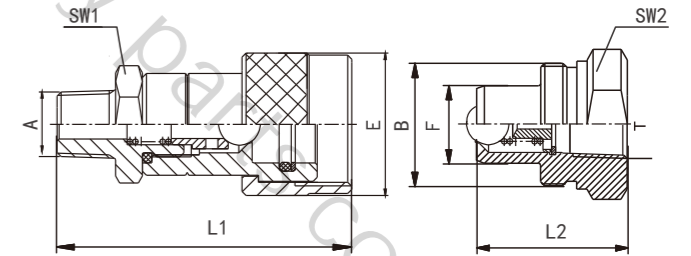
Description		Part Code	
FM	Body size	Dust Plug	Color
06	1/4"	FM06-P-VSP/VSC	Red/Black
10	3/8"	FM10-P-VSP/VSC	Red/Black

Fluid-tech
FM-HSM

"HSM" is a screw to connect coupling series with ball valves. This series is intended for high pressure hydraulic applications up to 700 bar / 10152 psi. The couplings are manufactured with high resistance carbon steel with zinc plated treatment. They are interchangeable with similar couplings existing on the market and used mainly for hydraulic jacks and cylinders.



**ISO
14540**



TECHNICAL SPECIFICATIONS AND OPTIONS

- **Interchange**
ISO 14540
- **Valving style**
Ball
- **Connection Under Pressure**
Allowed (Max residual pressure: 100 bar)
- **Material / Treatment**
Carbon steel, Cr3
- **Connection system**
Screw
- **Sealing**
Nitrile to connect/others on request
- **Available sizes**
1/4", 3/8"
- **Operating pressure**
Up to 700 bar
- **Locking mechanism**
Screw to connect
- **Temperature**
-20°C / +100°C
- **Flow rate**
Up to 23l/min
- **Available threads**
NPT

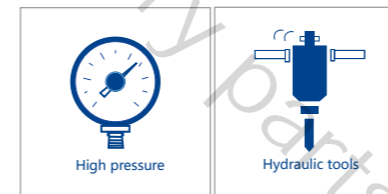
TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	70	12	12	150	200	220	0.2
10	10	70	23	23	150	200	220	0.6

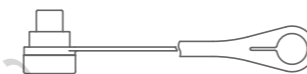
PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	B	E	F	A	COD.(Female)	COD.(Male)
06	6.3	60	33	21	29	1"-18UNS	29	15.9	NPT 1/4"	HSM-06SM-NPT14	HSM-06PF-NPT14
10	10	73	40	25	32	1"3/16-16UN	35	19	NPT 3/8"	HSM-10SM-NPT38	HSM-10PF-NPT38

APPLICATIONS



PROTECTIVE CAPS FOR ISO14540 SERIES



Description		Part Code		Color	
FM	Body size	Dust Plug		Color	
06	1/4"	FM06-P-VSP/VSC		Red/Black	
10	3/8"	FM10-P-VSP/VSC		Red/Black	



Fluid-tech

FM-HA

HA series screw to connect couplings are designed for heavy duty applications involving very high pressures and severe pressure pulses.

It is used in Construction, Oil & Gas, Material handling, all industry and severe high pressure applications



TECHNICAL SPECIFICATIONS AND OPTIONS



- Interchange
With Similar Couplings



- Valving style
Poppet



- Connection Under Pressure
Not allowed



- Material / Treatment
Carbon steel, Cr3



- Connection system
Screw



- Sealing
Nitrile NBR/others on request



- Available sizes
1/4", 3/8", 1/2", 3/4", 1"



- Operating pressure
Up to 750 bar



- Locking mechanism
Screw to connect



- Temperature
-15°C / +180°C



- Flow rate
Up to 280 l/min



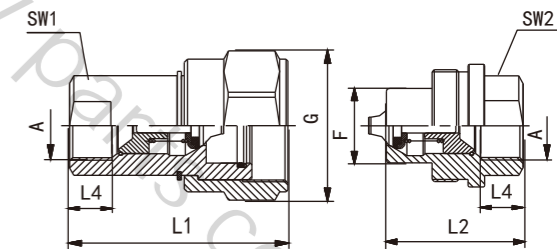
- Available threads
BSP, NPT

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	75	11.5	23	365	350	380	1.1
10	10	75	23	50	260	245	245	2
12	12.5	75	45.5	85	165	210	190	3
20	19	65	106	120	125	150	125	10
25	25	45	190	280	110	160	130	16

CHARACTERISTICS

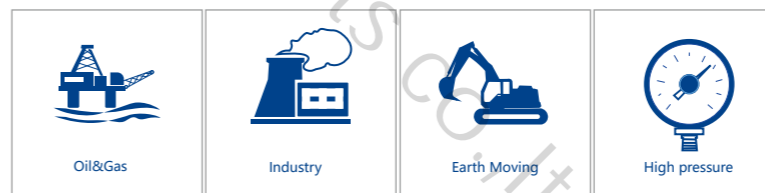
- It offers steel & stainless steel materials
- Thread-to-connect with double shut-off valving
- The design and materials used give it resistance to heavy mechanical loads



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	G	F	A	COD.(Female)	COD.(Male)
06	6.3	58.9	36	13	19	19	32	14.9	BSP 1/4" NPT 1/4"	HA-06SF-BSP14 HA-06SF-NPT14	HA-06PF-BSP14 HA-06PF-NPT14
10	10	66.5	40.5	16	22	22	36	19	BSP 3/8" NPT 3/8"	HA-10SF-BSP38 HA-10SF-NPT38	HA-10PF-BSP38 HA-10PF-NPT38
12	12.5	76.5	49	18	27	27	41	22	BSP 1/2" NPT 1/2"	HA-12SF-BSP12 HA-12SF-NPT12	HA-12PF-BSP12 HA-12PF-NPT12
20	19	89.5	56	20.5	35	35	50	28.95	BSP 3/4" NPT 3/4"	HA-20SF-BSP34 HA-20SF-NPT34	HA-20PF-BSP34 HA-20PF-NPT34
25	25	105.5	66	20.5	41	41	65	36	BSP 1" NPT 1"	HA-25SF-BSP1 HA-25SF-NPT1	HA-25PF-BSP1 HA-25PF-NPT1

APPLICATIONS



INTERCHANGE

Gromelle 6000
Inteva TGW
Holmbury SP

Fluid-tech FM-HB

HB series is mainly applied in wet line kits, dump trailers, submersible pumps, engine test stands and lines of oil&gas field equipment. A wing-shaped sleeve helps to connect and disconnect by hand. Interchangeable for US market.



TECHNICAL SPECIFICATIONS AND OPTIONS

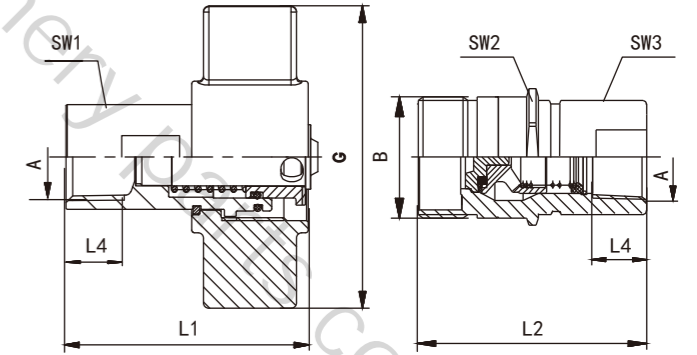
- Interchange**
With Similar Couplings
- Valving style**
Flat Valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Brass and Carbon Steel
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
3/4", 1", 1-1/4", 1-1/2"
- Operating pressure**
Up to 200 bar
- Locking mechanism**
Screw to connect
- Temperature**
-25°C / +100°C
- Flow rate**
Up to 600 l/min
- Available threads**
NPT

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
20	19	20	106	220	58	46	116	0.15
25	25	20	190	260	72	37	88	0.4
31	31.5	18	260	400	57	43	52	0.65
40	40	17	380	600	35	43	50	0.85

CHARACTERISTICS

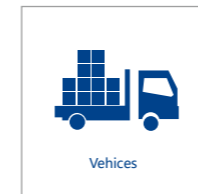
- Corrosion resistant brass body makes this coupling compatible with a broad range of media and provides versatility.
- Flat face valves are easily wiped clean during connection.



PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	SW3	G	B	A	COD.(Female)	COD.(Male)
20	19	79.4	79.4	29.5	41	33.4	103	1-1/2-12UNF	NPT 1/2" NPT 3/4"	HB-20SF-NPT12 HB-20SF-NPT34	HB-20PF-NPT12 HB-20PF-NPT34
25	25	95.5	95.5	36.5	47.5	39.6	112	1-7/8-12UNF	NPT 1"	HB-25SF-NPT1	HB-25PF-NPT1
31	31.5	100.2	100.2	45.2	54	47.7	134	2-1/8-12UNF	NPT 1-1/4"	HB-31SF-NPT114	HB-31PF-NPT114
40	40	102.3	102.3	50.7	63.5	55.7	135	2-1/2-12UNF	NPT 1-1/2"	HB-40SF-NPT112	HB-40PF-NPT112

APPLICATIONS



INTERCHANGE

Parker 6100
Dnp VFF
Faster FB
Dixon W
Stucchi WING
Eaton 5100
Aeroquip 5100
Snap Tite 78
Safeway S51
Tomco A5100
Hansen 96

PROTECTIVE CAPS FOR HB SERIES



Description	Part Code			Material
FM	Body size	Female Dust Plug	Male Dust Cap	
20	3/4"	FM20-B-HBP	FM20-B-HBC	Brass
25	1"	FM25-B-HBP	FM25-B-HBC	Brass
31	1-1/4"	FM31-B-HBP	FM31-B-HBC	Brass
40	1-1/2"	FM40-B-HBP	FM40-B-HBC	Brass

Interchange FM-HC

HC series couplings designed for the transport industry, Such as: Mobile plant, Tripper trucks, Commercial vehicle trailers, Agricultural equipment and construction plant, Composed by a screw-on sleeve and wings nuts with hexagon shape.



TECHNICAL SPECIFICATIONS AND OPTIONS

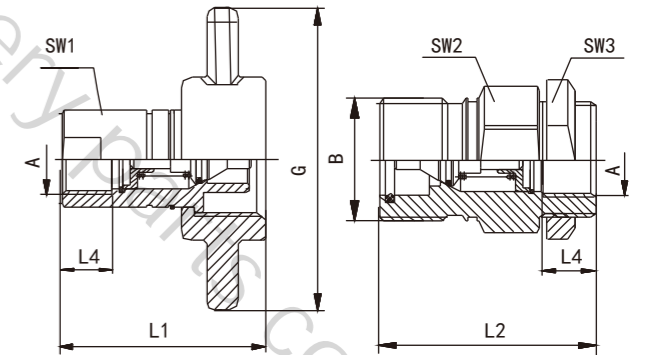
- Interchange**
With Similar Couplings
- Valving style**
Poppet
- Connection Under Pressure**
Allowed
- Material / Treatment**
Carbon Steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
3/4", 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 320 l/min
- Available threads**
BSP

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
20	19	35	120	240	100	100	130	10
25	25	30	160	320	100	100	100	15

CHARACTERISTICS

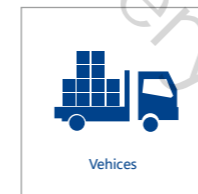
- Wing nut sleeve design allows connection by hand
- The screw system allows the connection either with male or female under pressure
- Bidirectional flow



PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	SW3	G	B	A	COD.(Female)	COD.(Male)
20	19	76	78	33	46	50	114	1"3/4-10UNS	BSP 3/4"	HC-20SF-BSP34	HC-20PF-BSP34
25	25	81	83	40	55	50	115	2"1/8-10UNS	BSP 1"	HC-25SF-BSP1	HC-25PF-BSP1

APPLICATIONS



INTERCHANGE

Dnp PVE1
Faster CVE
Holmbury TC
Eaton FD86

PROTECTIVE CAPS FOR HC SERIES



Description		Part Code		
FM	Body size	Female Dust Plug	Male Dust Cap	Material
20	3/4"	FMS20-MS-HCP	FMS20-MS-HCC	Metal Steel
25	1"	FMS25-MS-HCP	FMS25-MS-HCC	Metal Steel

Interchange FM-HD

HD Series screw to connect couplings are designed for heavy duty applications involving very high pressures and severe pressure pulse conditions.



TECHNICAL SPECIFICATIONS AND OPTIONS

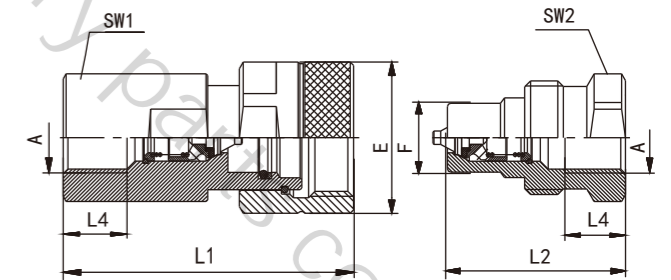
- Interchange**
With Similar Couplings
- Valving style**
Poppet Valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon Steel
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
- Operating pressure**
Up to 650 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 757 l/min
- Available threads**
BSP, NPT

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
10	10	65	18	18	300	300	300	1.9
12	12.5	60	23	23	250	270	220	2.7
20	19	50	45	45	300	210	210	9.3
25	25	46	106	106	250	290	250	16
31	31.5	36	189	189	250	290	250	30
40	40	36	300	300	180	250	180	54
50	50	21	757	757	140	160	105	120

CHARACTERISTICS

- High pressure screw couplings,
- Thread-to-connect with double shut-off valving
- Self locking connection mechanism prevents accidental disconnection caused by vibration



PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	SW3	E	F	A	COD.(Female)	COD.(Male)
10	10	75.8	48	30	36	32	40	19	BSP 3/8" NPT 3/8"	HD-10SF-BSP38 HD-10SF-NPT38	HD-10PF-BSP38 HD-10PF-NPT38
12	12.5	86.5	53	34	41	34	45	20.5	BSP 1/2" NPT 1/2"	HD-12SF-BSP12 HD-12SF-NPT12	HD-12PF-BSP12 HD-12PF-NPT12
20	19	105	63	41	50	46	55	27.9	BSP 3/4" NPT 3/4"	HD-20SF-BSP34 HD-20SF-NPT34	HD-20PF-BSP34 HD-20PF-NPT34
25	25	124	72	50	55	50	60.5	31.2	BSP 1" NPT 1"	HD-25SF-BSP1 HD-25SF-NPT1	HD-25PF-BSP1 HD-25PF-NPT1
31	31.5	152.5	86	65	75	65	80	44	BSP 1-1/4" NPT 1-1/4"	HD-31SF-BSP114 HD-31SF-NPT114	HD-31PF-BSP114 HD-31PF-NPT114
40	40	172	95	75	90	80	98	53.4	BSP 1-1/2" NPT 1-1/2"	HD-40SF-BSP112 HD-40SF-NPT112	HD-40PF-BSP112 HD-40PF-NPT112
50	50	205	118	100	125	110	129	81.8	BSP 2" NPT 2"	HD-50SF-BSP2 HD-50SF-NPT2	HD-50PF-BSP2 HD-50PF-NPT2

APPLICATIONS



INTERCHANGE

Dnp VVT
Faster VA
Holmbury PTC

PROTECTIVE CAPS FOR HD SERIES



Description		Part Code		
FM	Body size	Female Dust Plug	Male Dust Cap	Material
06	1/4"	FM06-A-HDP	FM06-A-HDC	Aluminum
10	3/8"	FM10-A-HDP	FM10-A-HDC	Aluminum
12	1/2"	FM12-A-HDP	FM12-A-HDC	Aluminum
20	3/4"	FM20-A-HDP	FM20-A-HDC	Aluminum
25	1"	FM25-A-HDP	FM25-A-HDC	Aluminum

Interchange FM-HE

HE series is suitable for heavy duty application & high pressure pulse applications, They are designed primarily for heavy duty applications.



TECHNICAL SPECIFICATIONS AND OPTIONS

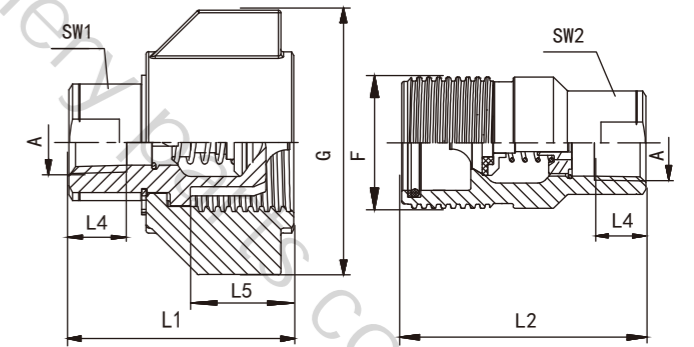
- Interchange**
With Similar Couplings
- Valving style**
Poppet Valve
- Connection Under Pressure**
One side allowed
- Material / Treatment**
Carbon Steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
3/4", 1", 1-1/4", 1-1/2", 2"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 1000 l/min
- Available threads**
NPT

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
20	19	35	106	190	75	140	150	8
25	25	35	189	280	90	150	160	16
31	31.5	35	288	480	85	160	130	31
40	40	35	379	700	60	90	120	64
50	50	35	757	1000	50	60	110	141

CHARACTERISTICS

- Screw connectable under residual pressure
- Robust coupling with hard heavy duty wing nut and hex nut design.



PRODUCT PARAMETER

FM	ISO	L1	L2	L5	SW1	SW2	G	F	A	COD.(Female)	COD.(Male)
20	71	71	83	22	32	32	72	44.5	NPT 3/4"	HE-20SF-NPT34	HE-20PF-NPT34
25	88.3	88.3	106	40	41.3	41.3	102	57	NPT 1"	HE-25SF-NPT1	HE-25PF-NPT1
31	112	112	136	51	50.8	50.8	118	66.5	NPT 1-1/4"	HE-31SF-NPT114	HE-31PF-NPT114
40	130.7	130.7	152	64.3	60.3	60.3	138	82.5	NPT 1-1/2"	HE-40SF-NPT112	HE-40PF-NPT112
50	154.6	154.6	179	75.5	74.6	74.6	162	101	NPT 2"	HE-50SF-NPT2	HE-50PF-NPT2

APPLICATIONS



INTERCHANGE

Parker 75
Dnp VFH1
Faster OGV
Holmbury LC
Dixon WS
Eaton FD85
Snap Tite 75
Hydraulic Lnc 5-TV

PROTECTIVE CAPS FOR HE SERIES



Description		Part Code		
FM	Body size	Female Dust Plug	Male Dust Cap	Material
20	3/4"	FM20-A-HEP	FM20-A-HEC	Aluminium
25	1"	FM25-A-HEP	FM25-A-HEC	Aluminium
31	1-1/4"	FM31-A-HEP	FM31-A-HEC	Aluminium
40	1-1/2"	FM40-A-HEP	FM40-A-HEC	Aluminium
50	2"	FM50-A-HEP	FM50-A-HEC	Aluminium

Interchange FM-HF

HF Series are general purpose couplings that connect under pressure for high pressure applications. The 1/4 inch stainless steel coupling connects together with a threaded brass sleeve. Polyurethane seals resist extrusion and abrasion.



TECHNICAL SPECIFICATIONS AND OPTIONS

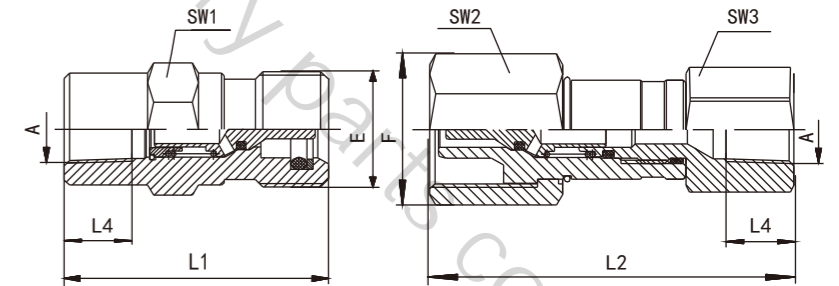
- Interchange**
With Similar Couplings
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Stainless steel (AISI 316L)
Brass
- Connection system**
Screw
- Sealing**
PU&NBR/others on request
- Available sizes**
1/4"
- Operating pressure**
Up to 700 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 11.5 l/min
- Available threads**
NPT

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	70	11.5	11.5	260	245	245	0.6

CHARACTERISTICS

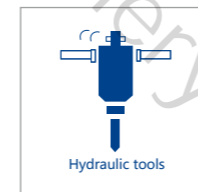
- High pressure screw type coupling and working pressure can be up to 10000 psi (70mpa)



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	SW3	E	A	COD.(Female)	COD.(Male)
06	6.3	50.8	70	16	22	25	22	22	NPT 1/4"	HF-06SF-NPT14	HF-06PF-NPT14

APPLICATIONS



INTERCHANGE

Parker 1141
Dnp HPI

PROTECTIVE CAPS FOR HF SERIES



Description	Part Code	Plastic Material
FM 06 Body size 1/4"	Female Dust Plug FM06-P-HFP Male Dust Cap FM06-P-HFC	Color Black

Interchange FM-HG

It offers an extensive range for agricultural applications with high pressure pulse.



TECHNICAL SPECIFICATIONS AND OPTIONS

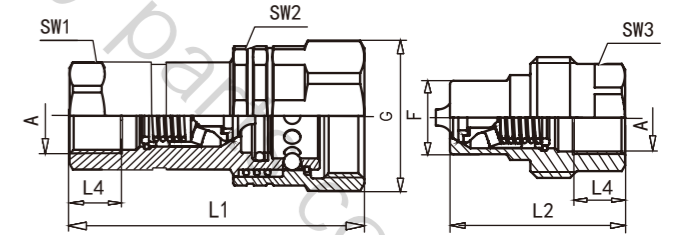
- Interchange**
With Similar Couplings
- Valving style**
Poppet
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon steel, Cr3
- Connection system**
Screw
- Sealing**
Nitrile NBR/others on request
- Available sizes**
From 1/4" to 1"
- Operating pressure**
Up to 350 bar
- Locking mechanism**
Screw to connect
- Temperature**
-20°C / +100°C
- Flow rate**
Up to 260 l/min
- Available threads**
NPT, BSP

TECHNICAL DATA

Nominal Size		Max. Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	35	12	24	180	140	150	1
10	10	30	23	46	120	180	180	2
12	12.5	30	45	90	100	160	160	3
20	19	25	106	220	100	100	130	10
25	25	23	189	260	60	90	70	15

CHARACTERISTICS

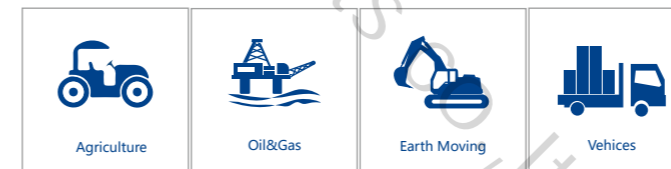
- High pressure screw couplings,
- Thread-to-connect with double shut-off valving
- Self locking connection mechanism prevents accidental disconnection caused by
- vibration



PRODUCT PARAMETER

FM	ISO	L1	L2	SW1	SW2	SW3	G	F	A	COD.(Female)	COD.(Male)
06	6.3	65.5	33.0	19.0	27.0	19.0	30.0	14.2	BSP 1/4" NPT 1/4"	HG-06SF-BSP14 HG-06SF-NPT14	HG-06PF-BSP14 HG-06PF-NPT14
10	10	76	40.5	24.0	34.0	24.0	38.0	19	BSP 3/8" NPT 3/8"	HG-10SF-BSP38 HG-10SF-NPT38	HG-10PF-BSP38 HG-10PF-NPT38
12	12.5	82	49.0	27.0	38.0	27.0	42.0	20.6	BSP 1/2" NPT 1/2"	HG-12SF-BSP12 HG-12SF-NPT12	HG-12PF-BSP12 HG-12PF-NPT12
20	19	105.0	62.0	34.0	50.0	34.0	55.0	27.9	BSP 3/4" NPT 3/4"	HG-20SF-BSP34 HG-20SF-NPT34	HG-20PF-BSP34 HG-20PF-NPT34
25	25	124.5	73.0	41.0	55.0	41.0	61.0	31.3	BSP 1 NPT 1	HG-25SF-BSP1 HG-25SF-NPT1	HG-25PF-BSP1 HG-25PF-NPT1

APPLICATIONS



INTERCHANGE

Dnp VDV1
Faster VV
Holmbury PLC

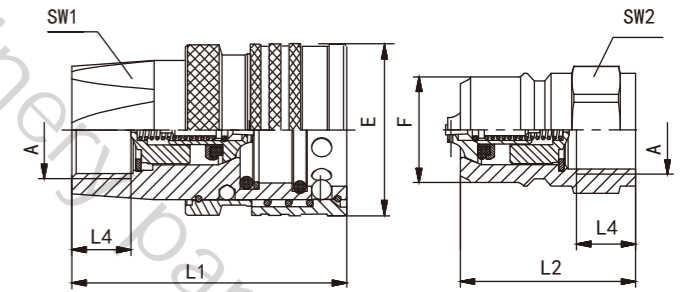
PROTECTIVE CAPS FOR HG SERIES



Description		Part Code		
FM	Body size	Female Dust Plug	Male Dust Cap	Material
06	1/4"	FM04-P-HGP	FM04-P-HGC	Aluminum
10	3/8"	FM06-P-HGP	FM06-P-HGC	Aluminum
12	1/2"	FM08-P-HGP	FM08-P-HGC	Aluminum
20	3/4"	FM12-P-HGP	FM12-P-HGC	Aluminum
25	1	FM16-P-HGP	FM16-P-HGC	Aluminum

Fluid-tech FM-TMU

TMU Series have high performance design, it is fully interchangeable with TEMA T series. Zinc nickle plated steel couplers have an intergrated safety lock ring to prevent accidental disconnection. The pressure relief poppet valve allows connections even when there is residual pressure in the hose lines.



TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
With Similar Couplings
- Valving style**
Poppet Valve
- Connection Under Pressure**
Allowed
- Material / Treatment**
Carbon Steel, Zn-Ni
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
3/8", 1/2", 3/4", 1"
- Operating pressure**
Up to 370 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C +100°C
- Flow rate**
Up to 500 l/min
- Available threads**
BSP

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
10	10	37	45	90	110	140	130	2.5
12	12.5	35	90	160	110	130	120	6
20	20	30	212	300	90	110	110	20
25	25	30	380	500	90	100	110	35

PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
10	10	60	38	14	24	32	35	20	BSP 3/8"	TMU-10SF-BSP38	TMU-10PF-BSP38
12	12.5	65	41.5	16	30	34	41	25	BSP 1/2"	TMU-12SF-BSP12	TMU-12PF-BSP12
20	20	74.5	46.5	19	38	46	52	33	BSP 3/4"	TMU-20SF-BSP34	TMU-20PF-BSP34
25	25	88.5	54	21	50	50	62	41	BSP 1"	TMU-25SF-BSP1	TMU-25PF-BSP1

APPLICATIONS



INTERCHANGE

Dnp PTV/PTK
Holmbury F
Dixon TR
Tema T/H

PROTECTIVE CAPS FOR TMU SERIES



Description		Part Code		Plastic Material
FM	Body size	Female Dust Plug	Male Dust Cap	Color
10	3/8"	FM10-P-TMP	FM10-P-TMC	Red
12	1/2"	FM12-P-TMP	FM12-P-TMC	Red
20	3/4"	FM20-P-TMP	FM20-P-TMC	Red
25	1"	FM25-P-TMP	FM25-P-TMC	Red

Fluid-tech FM-TB

TB series applies in hydraulic braking system, such as trailer connections.



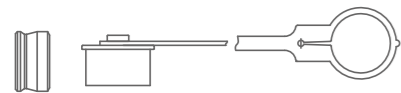
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
ISO5676
- Valving style**
Flat valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon Steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/2"
- Operating pressure**
Up to 150 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C +100°C
- Flow rate**
Up to 48 l/min
- Available threads**
BSP, METRIC

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
FM0	ISO	Mpa	l/min	l/min	Male(plug)	Female(socket)	Coupled	CC
08	12.5	15	24	48	90	62	93	0.05

PROTECTIVE CAPS FOR TB SERIES

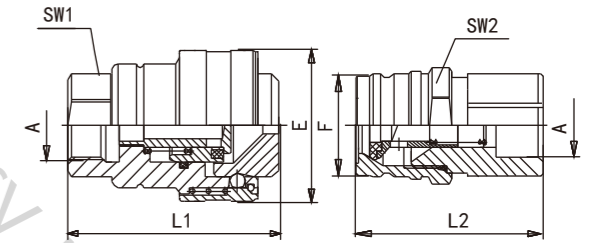


Description		Part Code			
FM	Body size	Female Dust Plug	Male Dust Cap	Color	Material
12	1/2"		FM08-P-TBC	Gray	Plastic
12	1/2"	FM08-MS-TBP		Silver	Metal Steel

INTERCHANGE

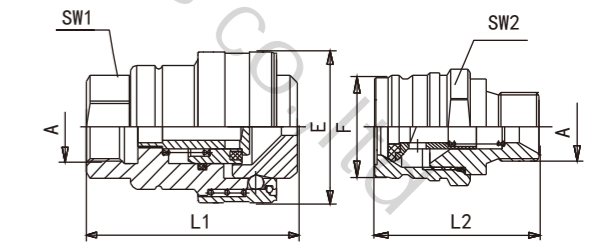
Parker 5676
Dnp PFT
Faster VF
Holmbury TB
Stucchi IFR
Voswinkel BP

APPLICATIONS

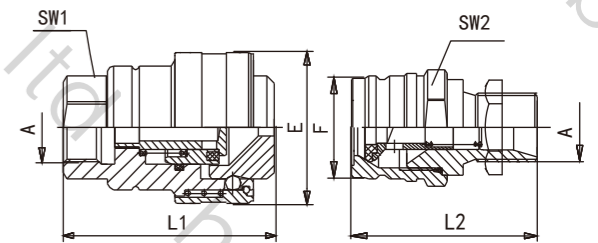


PRODUCT PARAMETER

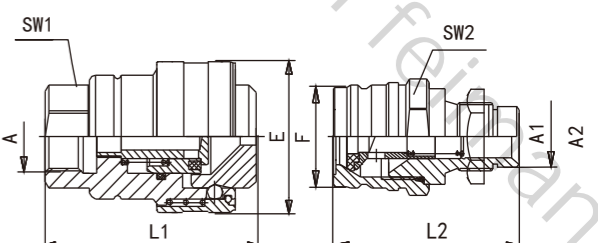
FM	ISO	L1	L2	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
12	12.5	55.8	55	27	32	44	29.9	BSP 3/8" BSP 1/2" M18x1.5	TB-12SF-BSP38 TB-12SF-BSP12 TB-12SF-M1815	TB-12PF-BSP12



FM	ISO	L2	SW2	E	F	A	COD.(Male)	
12	12.5	50.5 50.5 50.5	32	24° 24° 60°	44	29.9	M18x1.5 M20x1.5 BSP 1/2"	TB-12PM-M1815 TB-12PM-M2015 TB-12PM-BSP12W



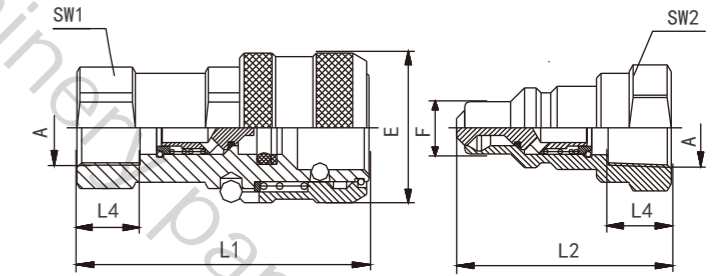
FM	ISO	L2	SW2	E	F	A	COD.(Male)	
12	12.5	55 57 57	32	24° 24° 24°	44	29.9	M18x1.5 M20x1.5 M22x1.5	TB-12PM-M1815L TB-12PM-M2015L TB-12PM-M2215L



FM	ISO	L2	SW2	A1	A2	E	F	COD.(Male)
12	12.5	57	32	M16x1.5 M18x1.5	M20x1.5 M20x1.5	44	29.9	TB-12PM-M1620 TB-12PM-M1820

Fluid-tech
FM-TC

TC Series is mainly applies in hydraulic jacks, torques wrenches, general industrial, Construction plant, mobile equipment, demolition and agricultural industries.
Poppet-valve connect couplings are designed with high pressure , up to 700bars



PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
10	10	6	51.5	14	24	24	32	11	NPT3/8"	TC-10SF-NPT38	TC-10PF-NPT38

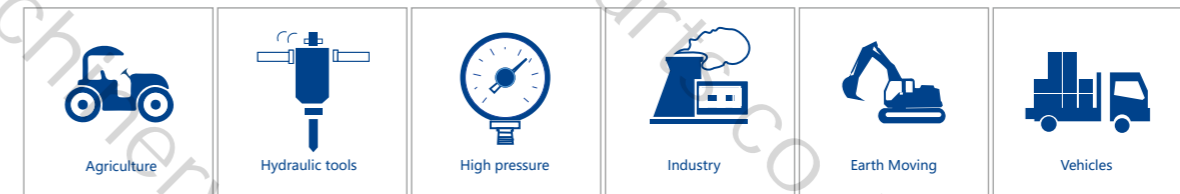
TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
With Similar Couplings
- Valving style**
Poppet Valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon Steel, Cr3
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
3/8"
- Operating pressure**
Up to 700 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C +100°C
- Flow rate**
Up to 23 l/min
- Available threads**
NPT

TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
10	10	70	23	23	150	200	200	0.6

APPLICATIONS



INTERCHANGE

Parker TC
Dnp TC
Aeroquip FD35

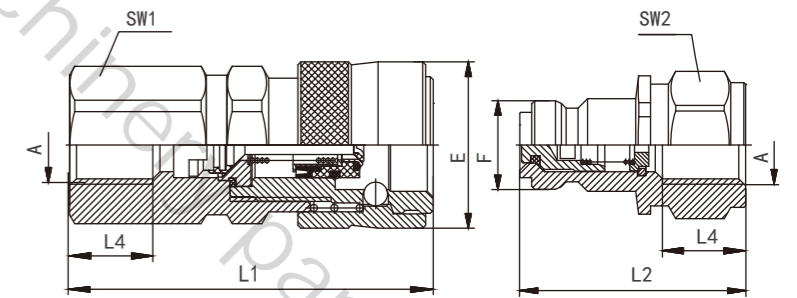
PROTECTIVE CAPS FOR TC SERIES



Description		Part Code		Plastic Material
FM	Body size	Female Dust Plug	Male Dust Cap	Color
10	3/8"	FM10-P-TCP	FM10-P-TCC	Red

Interchange FM-TD

TD series is fully interchangeable with cejn 115 and cejn 116 series, are widely used in hydraulic jacks, torque tools, rescue equipments.



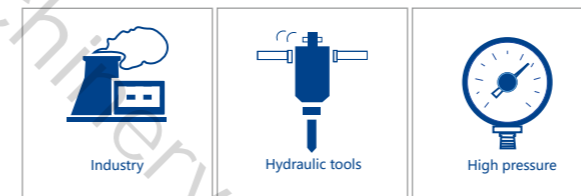
PRODUCT PARAMETER

FM	ISO	L1	L2	L4	SW1	SW2	E	F	A	COD.(Female)	COD.(Male)
06	6.3	61.3	38.1	12	24	22	28	15	BSP 1/4" NPT 1/4"	TD-06SF-BSP14 TD-06SF-NPT14	TD-06PF-BSP14 TD-06PF-NPT14

TECHNICAL SPECIFICATIONS AND OPTIONS

- Interchange**
With Similar Couplings
- Valving style**
Poppet Valve
- Connection Under Pressure**
Not allowed
- Material / Treatment**
Carbon Steel
- Connection system**
Single acting sleeve
- Sealing**
Nitrile NBR/others on request
- Available sizes**
1/4"
- Operating pressure**
Up to 1500 bar
- Locking mechanism**
Locking ball, Safety lock
- Temperature**
-20°C +130°C
- Flow rate**
Up to 6 l/min
- Available threads**
BSP, NPT

APPLICATIONS



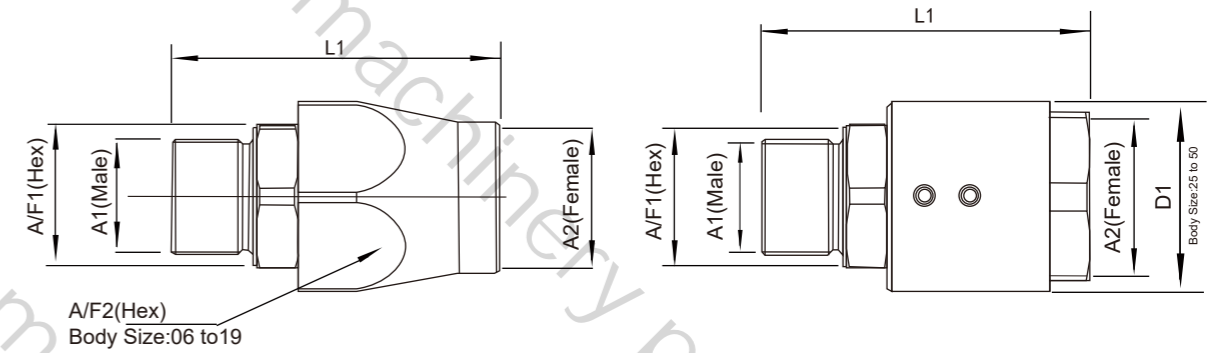
TECHNICAL DATA

Nominal Size		Max.Working Pressure	Rated Flow	Max flow rate	Min. Burst Pressure			Fluid Spillage
					Male(plug)	Female(socket)	Coupled	
FM	ISO	Mpa	l/min	l/min	Mpa	Mpa	Mpa	CC
06	6.3	150	6	6	350	350	350	0.008












Fluid-tech FM-CRS

CRS Series hydraulic Rotary Coupling also name hydraulic swivel joints They are mounted between the end of a moving hose and a fixed component to prevent hose's damaging by compensating its torsion and twisting.



TECHNICAL SPECIFICATIONS AND OPTIONS

-  **- Material / Treatment**
Carbon Steel, Zn-Ni
-  **- Valving style**
Non valve
-  **- Sealing**
Nitrile, NBR
-  **- Available sizes**
Form 1/4" to 2"
-  **- Operating pressure**
Up to 400 bar
-  **- Locking mechanism**
Locking ball System
-  **- Temperature**
-30°C +110°C
-  **- Flow rate**
Up to 300 l/min
-  **- Available threads**
BSP, NPT, JIC, SAE

TECHNICAL DATA

Body Size	CRS9006	CRS9010	CRS9012	CRS9019	CRS9025	CRS9032	CRS9040	CRS9050
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure	400	400	360	310	280	250	210	180
	5800	5800	5220	4495	4060	3625	3045	2610
Maximum flowrate	25	45	80	120	150	200	250	300
	6.6	11.9	21.1	31.7	39.6	52.8	66	79.3
Maximum rotational speed (RPM)	500	400	370	280	230	200	170	140

APPLICATIONS

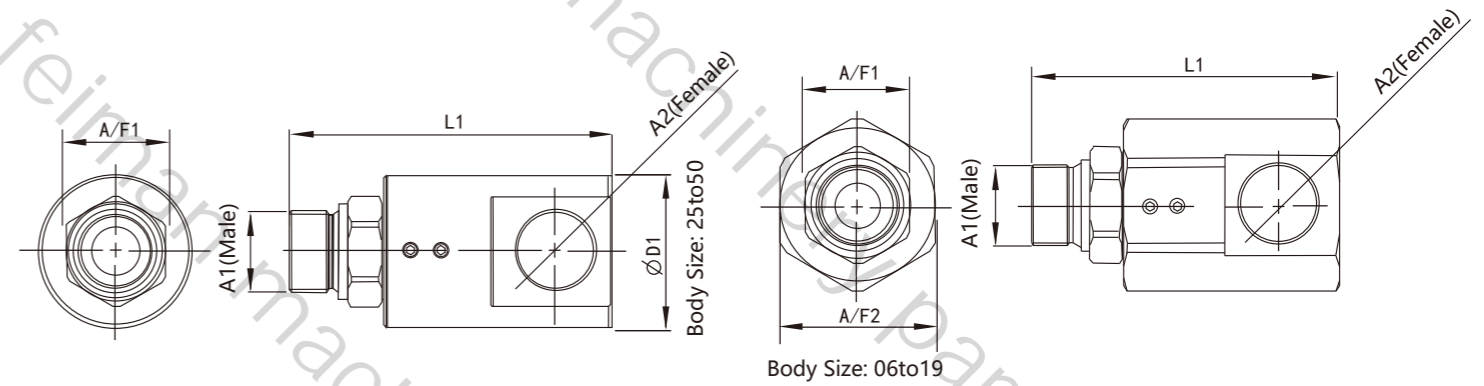


PRODUCT PARAMETER

A/F1		A1 x A2	L1		A/F2 or D1		Body Size	Part Number
mm	inch	Thread	mm	inch	mm	inch		
19	0.75	1/4 BSPP x BSPP	66	2.60	30	1.18	06 (1/4)	CRS-06-04GM-04G
19	0.75	7/16-20 JIC x SAE ORB	65	2.56	30	1.18		CRS-06-04JM-04S
19	0.75	1/4 NPTF x NPTF	66	2.60	30	1.18		CRS-06-04NM-04N
24	0.94	3/8 BSPP x BSPP	69	2.72	34	1.34	10 (3/8)	CRS-10-06GM-06G
24	0.94	9/16-18 JIC x SAE ORB	66	2.60	34	1.34		CRS-10-06JM-06S
24	0.94	3/8 NPTF x NPTF	69	2.72	34	1.34		CRS-10-06NM-06N
27	1.06	1/2 BSPP x BSPP	76	2.99	36	1.42	12 (1/2)	CRS-12-08GM-08G
27	1.06	3/4-16 JIC x SAE ORB	74	2.91	36	1.42		CRS-12-08JM-08S
27	1.06	7/8-14 JIC x SAE ORB	76	2.99	36	1.42		CRS-12-10JM-10S
27	1.06	1/2 NPTF x NPTF	76	2.99	36	1.42		CRS-12-08NM-08N
34	1.34	3/4 BSPP x BSPP	78.5	3.09	46	1.81	19 (3/4)	CRS-19-12GM-12G
34	1.34	1 1/16-12 JIC x SAE ORB	81.0	3.19	46	1.81		CRS-19-12JM-12S
34	1.34	3/4 NPTF x NPTF	78.5	3.09	46	1.81		CRS-19-12NM-12N
41	1.61	1 BSPP x BSPP	92.5	3.64	59	2.32	25 (1)	CRS-25-16GM-16G
41	1.61	1 5/16-12 JIC x SAE ORB	90.0	3.54	59	2.32		CRS-25-16JM-16S
41	1.61	1 NPTF x NPTF	92.5	3.64	59	2.32		CRS-25-16NM-16N
50	1.97	1 1/4 BSPP x BSPP	98.0	3.86	59	2.32	32 (1 1/4)	CRS-32-20GM-20G
50	1.97	1 5/8-12 JIC x SAE ORB	98.3	3.87	59	2.32		CRS-32-20JM-20S
50	1.97	1 1/4 NPTF x NPTF	98.0	3.86	59	2.32		CRS-32-20NM-20N
55	2.17	1 1/2 BSPP x BSPP	107.0	4.21	69	2.72	40 (1 1/2)	CRS-40-24GM-24G
55	2.17	1 7/8-12 JIC x SAE ORB	126.6	4.98	69	2.72		CRS-40-24JM-24S
55	2.17	1 1/2 NPTF x NPTF	107.0	4.21	69	2.72		CRS-40-24NM-24N
70	2.76	2 BSPP x BSPP	118.0	4.65	84	3.31	50 (2)	CRS-50-32M-32G
70	2.76	2 1/2-12 JIC x SAE ORB	175.6	6.91	84	3.31		CRS-50-32JM-32S
70	2.76	2 NPTF x NPTF	118.0	4.65	84	3.31		CRS-50-32NM-32N

Fluid-tech FM-CR90

CR90 Series hydraulic Rotary Coupling also name hydraulic swivel joints They are mounted between the end of a moving hose and a fixed component to prevent hose's damaging by compensating its torsion and twisting.



TECHNICAL SPECIFICATIONS AND OPTIONS

- Material / Treatment**
Carbon Steel, Zn-Ni
- Valving style**
Non valve
- Sealing**
Nitrile NBR
- Available sizes**
Form 1/4" to 2"
- Operating pressure**
Up to 400 bar
- Locking mechanism**
Locking ball System
- Temperature**
-30°C +110°C
- Flow rate**
Up to 300 l/min
- Available threads**
BSP, NPT, JIC, SAE

TECHNICAL DATA

Body Size	CR9006	CR9010	CR9012	CR9019	CR9025	CR9032	CR9040	CR9050
	Pressure in bar - Flow in LPM							
	Pressure in PSI - Flow in GPM							
Maximum working pressure	400 5800	400 5800	360 5220	310 4495	280 4060	250 3625	210 3045	180 2610
Maximum flow rate	25 6.6	45 11.9	80 21.1	120 31.7	150 39.6	200 52.8	250 66	300 79.3
Maximum rotational speed (RPM)	500	400	370	280	230	200	170	140

APPLICATIONS



PRODUCT PARAMETER

A/F1		A1 x A2	L1		A/F2 or D1		Body Size	Part Number
mm	inch	Thread	mm	inch	mm	inch		
19	0.75	1/4 BSPP x BSPP	72	2.83	30	1.18	06 (1/4)	CR90-06-04GM-04G
19	0.75	7/16-20 JIC x SAE ORB	71	2.8	30	1.18		CR90-06-04JM-04S
19	0.75	1/4 NPTF x NPTF	72	2.83	30	1.18		CR90-06-04NM-04N
24	0.94	3/8 BSPP x BSPP	79	3.11	34	1.34	10 (3/8)	CR90-10-06GM-06G
24	0.94	9/16-18 JIC x SAE ORB	77	3.03	34	1.34		CR90-10-06JM-06S
24	0.94	3/8 NPTF x NPTF	79	3.11	34	1.34		CR90-10-06NM-06N
27	1.06	1/2 BSPP x BSPP	90	3.54	36	1.42	12 (1/2)	CR90-12-08GM-08G
27	1.06	3/4-16 JIC x SAE ORB	88	3.46	36	1.42		CR90-12-08JM-08S
27	1.06	7/8-14 JIC x SAE ORB	90	3.54	36	1.42		CR90-12-10JM-10S
27	1.06	1/2 NPTF x NPTF	90	3.54	36	1.42		CR90-12-08NM-08N
34	1.34	3/4 BSPP x BSPP	100	3.94	46	1.81	19 (3/4)	CR90-19-12GM-12G
34	1.34	1 1/16-12 JIC x SAE ORB	102	4.02	46	1.81		CR90-19-12JM-12S
34	1.34	3/4 NPTF x NPTF	100	3.94	46	1.81		CR90-19-12NM-12N
41	1.61	1 BSPP x BSPP	123	4.84	59	2.32	25 (1)	CR90-25-16GM-16G
41	1.61	1 5/16-12 JIC x SAE ORB	121	4.76	59	2.32		CR90-25-16JM-16S
41	1.61	1 NPTF x NPTF	123	4.84	59	2.32		CR90-25-16NM-16N
50	1.97	1 1/4 BSPP x BSPP	134.0	5.28	78	3.07	32 (1 1/4)	CR90-32-20GM-20G
50	1.97	1 5/8-12 JIC x SAE ORB	137.3	5.41	78	3.07		CR90-32-20JM-20S
50	1.97	1 1/4 NPTF x NPTF	134.0	5.28	78	3.07		CR90-40-24NM-24N
55	2.17	1 1/2 BSPP x BSPP	138.0	5.43	89	3.5	40 (1 1/2)	CR90-40-24GM-24G
55	2.17	1 7/8-12 JIC x SAE ORB	142.5	5.61	89	3.5		CR90-40-24JM-24S
55	2.17	1 1/2 NPTF x NPTF	138.0	5.43	89	3.5		CR90-40-24NM-24N
70	2.76	2 BSPP x BSPP	159.0	6.26	98	3.86	50 (2)	CR90-50-32M-32G
70	2.76	2 1/2-12 JIC x SAE ORB	166.5	6.56	98	3.86		CR90-50-32JM-32S
70	2.76	2 NPTF x NPTF	159.0	6.26	98	3.86		CR90-50-32NM-32