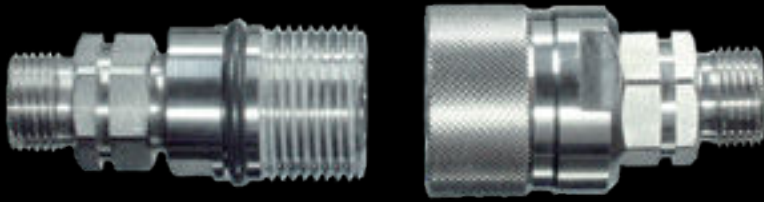










Pegasus
hydraulics

Quick-release couplings

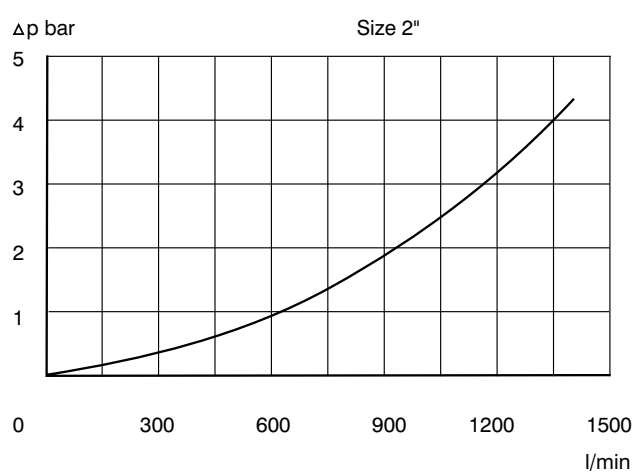
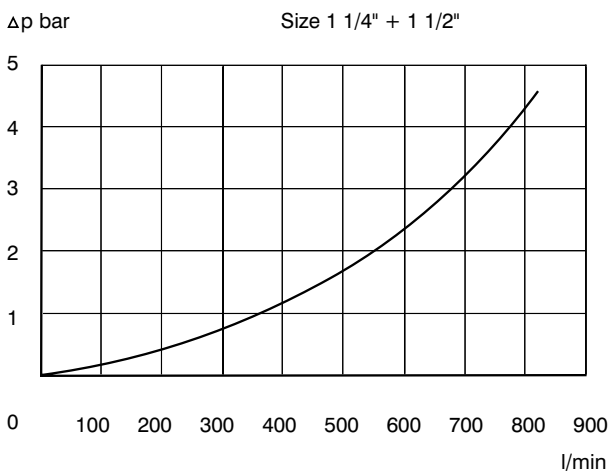
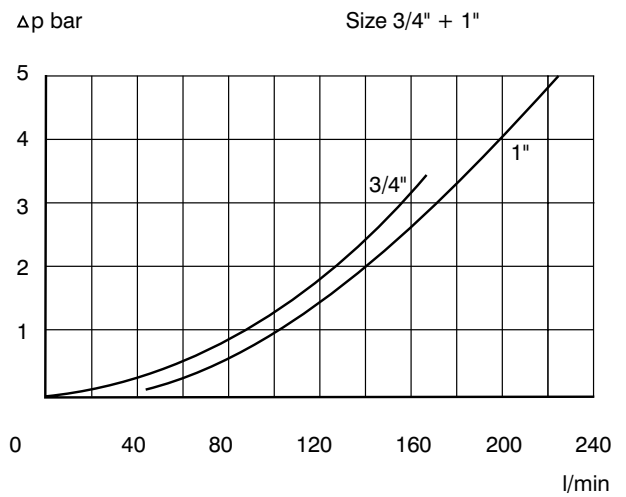
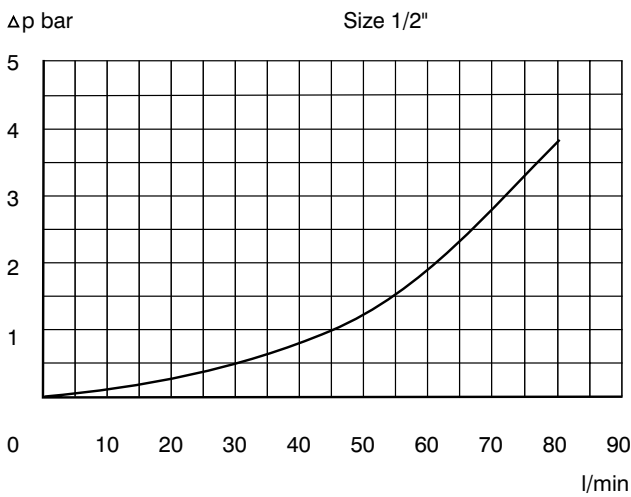
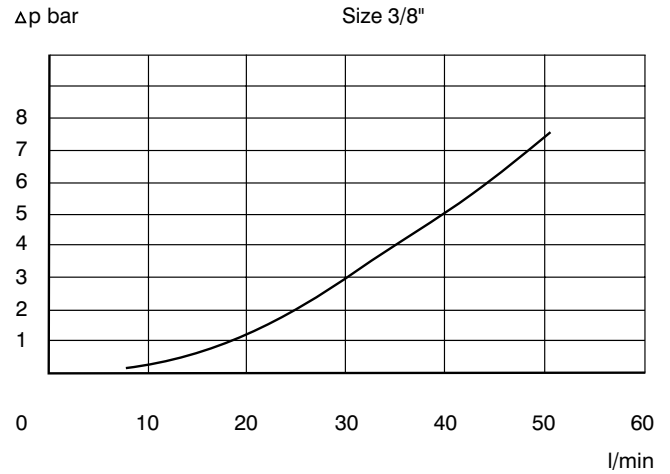
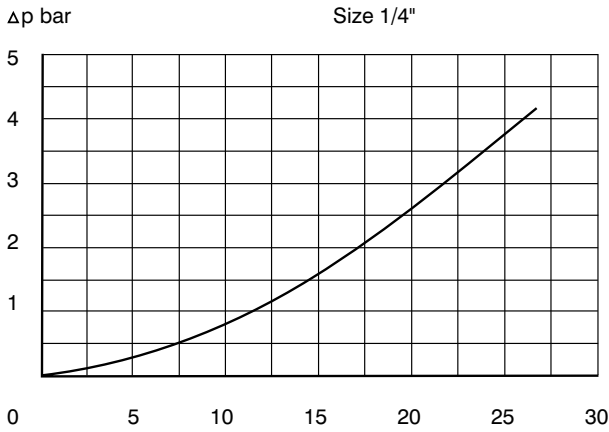


15



	Product Groups	Page
	ISO B	
	Technical data – pressure drop	15.02
	ISO B – BSP parallel female	15.03
	ISO B – NPT female	15.04
	Quick-release screwed couplings	
	Technical data	15.05
	Pressure drop	15.06
	BSP parallel female	15.07
	L series compression	15.08
	S series compression	15.09
	Quick-release couplings accessories	
	Screwed QRC dust cap	15.10
	Screwed QRC dust plug	15.11
	ISO B dust cap	15.12
	ISO B dust plug	15.13
	Flat-faced quick-release couplings	
	Pressure drop	15.14–15-15
	BSP parallel female	15.16
	High pressure quick-release screwed couplings	
	Pressure drop	15.17–15-19
	BSP parallel female	15.20
	High pressure quick-release couplings accessories	
	Dust plug	15.21
	Duct cap	15.22
	Usage and maintenance	15.23
	Additional guidance	15.24

Pressure drop



ISO B – BSP parallel female

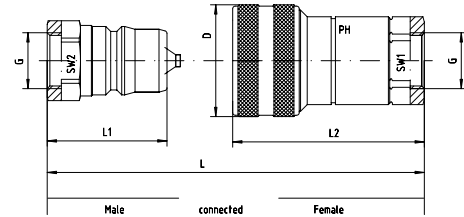
BOOK INDEX

SECTION INDEX

These quick-release couplings are constructed entirely from AISI 316 stainless steel, with Viton seals and PTFE “bk” rings.

The female BSP parallel thread is to ISO 228 and are completely interchangeable with ISO standard “B series” couplings.

The theoretical burst pressure is 2.5 times the nominal working pressure.



Pressure PB	Thread G = BSP	Approx. Dimensions						Flow Rate l/min.	Part code Female / Carrier
		D	L	L1	L2	SW1	SW2		
300	1/8"	24	62.0		50.0	14		6	SV-Mu-G 1/8"
300	1/4"	28	74.5		58.5	19		12	SV-Mu-G 1/4"
250	3/8"	35	78.5		64.0	24		23	SV-Mu-G 3/8"
250	1/2"	42	91.5		73.0	30		45	SV-Mu-G 1/2"
250	3/4"	52	107.5		87.5	36		105	SV-Mu-G 3/4"
200	1"	60	126.5		103.0	41		185	SV-Mu-G 1"
140	1 1/4"	75	198.0		126.0	65		370	SV-Mu-G 1 1/4"
140	1 1/2"	75	199.0		126.0	65		370	SV-Mu-G 1 1/2"
90	2"	105	222.0		142.0	90		750	SV-Mu-G 2"

Pressure PB	Thread G = BSP	Approx. Dimensions						Flow Rate l/min.	Part code Male / Probe
		D	L	L1	L2	SW1	SW2		
300	1/8"		62.0	31.0			14	6	SV-St-G 1/8"
300	1/4"		74.5	37.0			19	12	SV-St-G 1/4"
250	3/8"		78.5	39.0			22	23	SV-St-G 3/8"
250	1/2"		91.5	45.5			27	45	SV-St-G 1/2"
250	3/4"		107.5	54.0			36	105	SV-St-G 3/4"
200	1"		126.5	63.0			41	185	SV-St-G 1"
140	1 1/4"		198.0	126.0			65	370	SV-St-G 1 1/4"
140	1 1/2"		199.0	126.0			65	370	SV-St-G 1 1/2"
90	2"		222.0	142.0			90	750	SV-St-G 2"

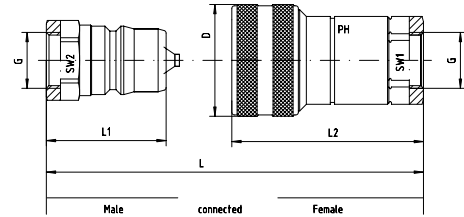
ISO B – NPT female

BOOK INDEX

SECTION INDEX

These quick-release couplings are constructed entirely from AISI 316 stainless steel, with Viton seals and PTFE “bk” rings.

The female thread is NPT and are completely interchangeable with ISO standard “B series” couplings.



Pressure PB	Thread G = NPT	Approx. Dimensions						Flow Rate l/min.	Part code Female / Carrier
		D	L	L1	L2	SW1	SW2		
300	1/8"	24	62.0		50.0	14		6	SV-Mu-NPT-1/8"
300	1/4"	28	74.5		58.5	19		12	SV-Mu-NPT-1/4"
250	3/8"	35	78.5		64.0	24		23	SV-Mu-NPT-3/8"
250	1/2"	42	91.5		73.0	30		45	SV-Mu-NPT-1/2"
250	3/4"	52	107.5		87.5	36		105	SV-Mu-NPT-3/4"
200	1"	60	126.5		103.0	41		185	SV-Mu-NPT-1"
140	1 1/4"	75	198.0		126.0	65		370	SV-Mu-NPT-1 1/4"
140	1 1/2"	75	199.0		126.0	65		370	SV-Mu-NPT-1 1/2"
90	2"	105	222.0		142.0	90		750	SV-Mu-NPT-2"

Pressure PB	Thread G = NPT	Approx. Dimensions						Flow Rate l/min.	Part code Male / Probe
		D	L	L1	L2	SW1	SW2		
300	1/8"		62.0	31.0			14	6	SV-St-NPT-1/8"
300	1/4"		74.5	37.0			19	12	SV-St-NPT-1/4"
250	3/8"		78.5	39.0			22	23	SV-St-NPT-3/8"
250	1/2"		91.5	45.5			27	45	SV-St-NPT-1/2"
250	3/4"		107.5	54.0			36	105	SV-St-NPT-3/4"
200	1"		126.5	63.0			41	185	SV-St-NPT-1"
140	1 1/4"		198.0	126.0			65	370	SV-St-NPT-1 1/4"
140	1 1/2"		199.0	126.0			65	370	SV-St-NPT-1 1/2"
90	2"		222.0	142.0			90	750	SV-St-NPT-2"



Quick-release screwed couplings have shut-off valves within both sides. The couplings are connected by means of a thread and are tightened by hand. When disconnecting, as a safety feature, the valves within both sides close before the two sides can be disconnected. The couplings should never be connected or disconnected under pressure.

Good resistance to pressure impulses.

Good flow characteristics.

Standard version technical data –

Material - V4A (AISI 316), Viton seals and PTFE backing ring.

Usage - hydraulic fluids, mineral oils and glycol based media, also air and water if treated with corrosion protection additive.

Temperature range: -20°C to +200°C

Pressure					
DN	Flow Cross Section mm ²	Coupling connected bar	Coupling - Female bar	Coupling - Male bar	Size
5-6	25	450	450	450	1
6-8	50	400	400	400	2
8-12	75	400	400	400	3
10-16	150	250	250	250	4
16-25	208	250	250	250	6
25-32	525	200	200	200	8

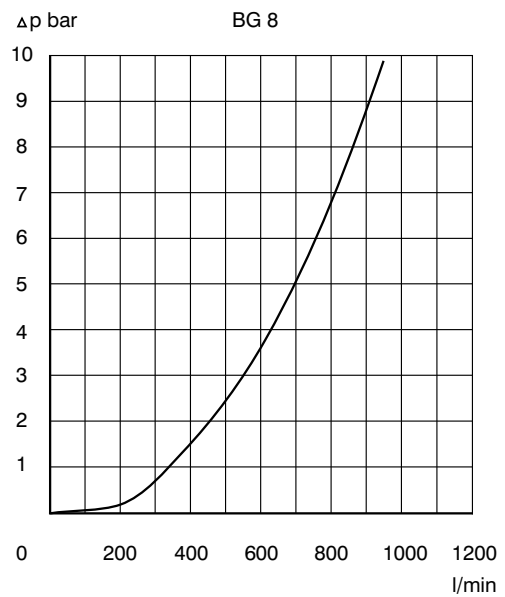
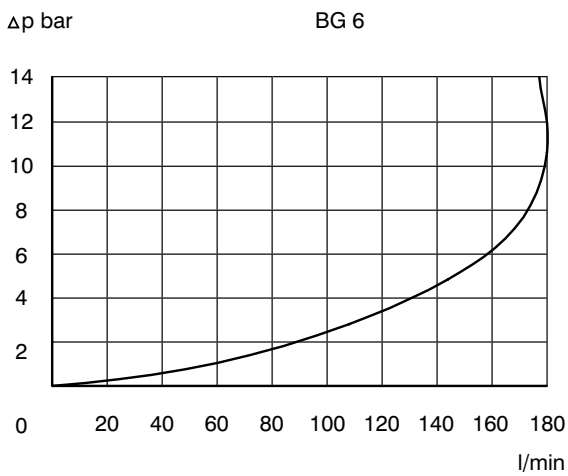
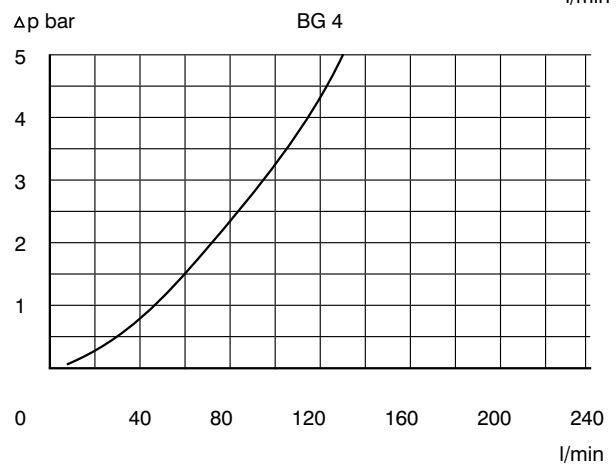
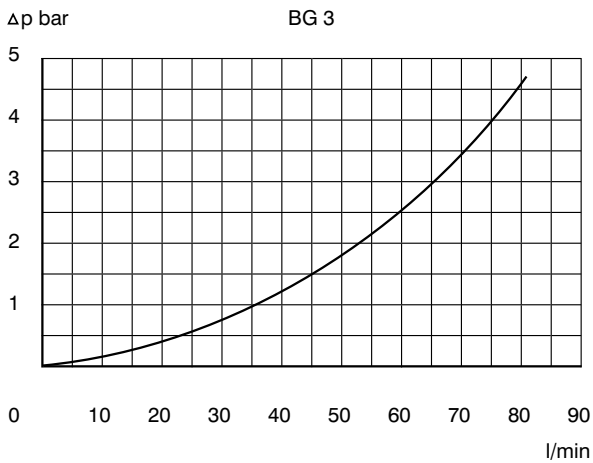
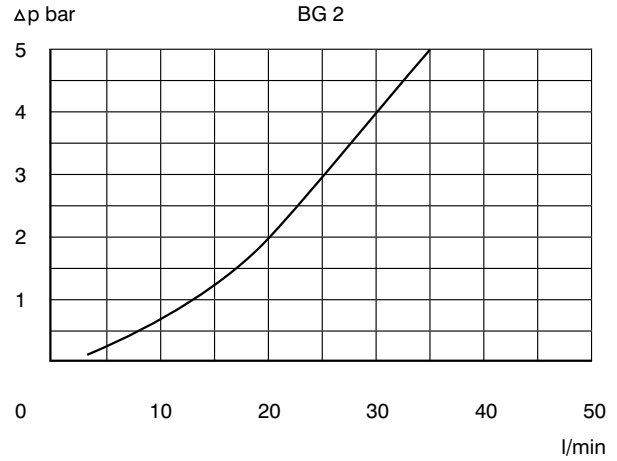
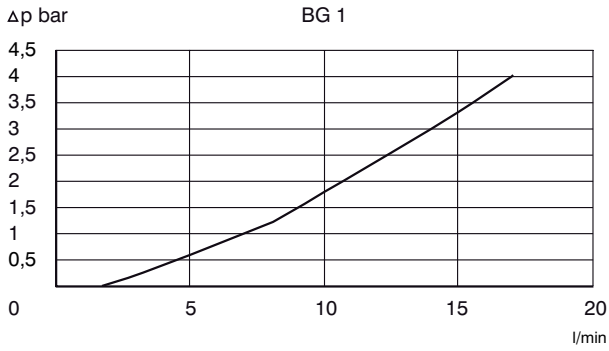
The theoretical burst pressure is 2.5 times the nominal working pressure.

Quick-release screwed couplings – pressure drop

BOOK INDEX

SECTION INDEX

Pressure drop

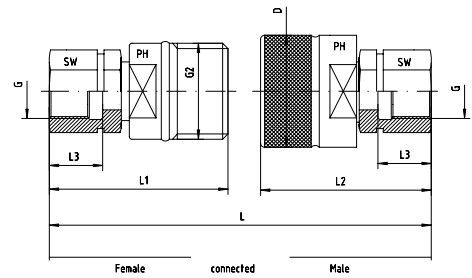


Quick-release screwed couplings – BSP parallel female

BOOK INDEX

SECTION INDEX

BSP parallel female
to ISO 228



Size	Thread			Approx. Dimensions						Part code Female	
	DN	G = BSP	G2	D	L	L1	L2	L3	SW		
1	6	G 1/4"	24 x 2		92.0	59.0		13	19		SKM-1-G 1/4"
2	8	G 3/8"	28 x 2		98.5	64.0		13	22		SKM-2-G 3/8"
3	12	G 1/2"	36 x 2		103.0	67.0		15	30		SKM-3-G 1/2"
4	16	G 3/4"	42 x 2		123.5	81.5		18	36		SKM-4-G 3/4"
6	20	G 1"	48 x 3		144.5	97.0		22	41		SKM-6-G 1"
8	32	G 1 1/2"	70 x 3		187.0	116.0		25	60		SKM-8-G 1 1/2"

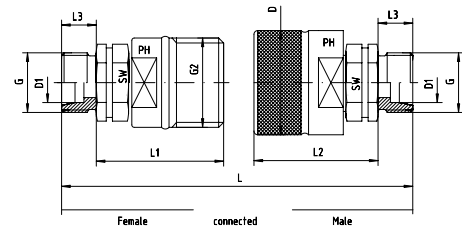
Size	Thread			Approx. Dimensions						Part code Male	
	DN	G = BSP	G2	D	L	L1	L2	L3	SW		
1	6	G 1/4"	24 x 2	30	92.0		58.0	13	19		SKS-1-G 1/4"
2	8	G 3/8"	28 x 2	35	98.5		61.0	13	22		SKS-2-G 3/8"
3	12	G 1/2"	36 x 2	42	103.0		63.5	15	30		SKS-3-G 1/2"
4	16	G 3/4"	42 x 2	48	123.5		73.5	18	36		SKS-4-G 3/4"
6	20	G 1"	48 x 3	55	144.5		82.5	22	41		SKS-6-G 1"
8	32	G 1 1/2"	70 x 3	80	187.0		107.0	25	60		SKS-8-G 1 1/2"

Quick-release screwed couplings – L series compression connection

BOOK INDEX

SECTION INDEX

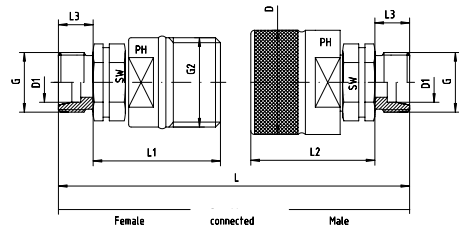
L series compression connection
to ISO 8434-1 / DIN 2353



Series	Size	Thread			Approx. Dimensions							Part code Female		
		DN	G	G2	D	D1	L	L1	L2	L3	SW			
L	1	5	M 12 x 1.5	24 x 2		6					10	19	SKM-1-06-L	
L	2	6	M 14 x 1.5	28 x 2		8	102	56.0			10	22	SKM-2-08-L	
L	2	8	M 16 x 1.5	28 x 2		10	104	56.0			11	22	SKM-2-10-L	
L	3	10	M 18 x 1.5	36 x 2		12	99	54.5			11	30	SKM-3-12-L	
L	3	12	M 22 x 1.5	36 x 2		15	101	54.5			12	30	SKM-3-15-L	
L	4	16	M 26 x 1.5	42 x 2		18					12	36	SKM-4-18-L	
L	6	20	M 30 x 2	48 x 3		22	137	79.5			14	41	SKM-6-22-L	
L	6	25	M 36 x 2	48 x 3		28					14	41	SKM-6-28-L	
L	8	32	M 45 x 2	70 x 3		35					16	55	SKM-8-35-L	
L	8	40	M 52 x 2	70 x 3		42					16	55	SKM-8-42-L	

Series	Size	Thread			Approx. Dimensions							Part code Male		
		DN	G	G2	D	D1	L	L1	L2	L3	SW			
L	1	5	M 12 x 1.5	24 x 2	30	6					10	19	SKS-1-06-L	
L	2	6	M 14 x 1.5	28 x 2	35	8	102		53	10	22		SKS-2-08-L	
L	2	8	M 16 x 1.5	28 x 2	35	10	104		53	11	22		SKS-2-10-L	
L	3	10	M 18 x 1.5	36 x 2	42	12	99		51	11	30		SKS-3-12-L	
L	3	12	M 22 x 1.5	36 x 2	42	15	101		51	12	30		SKS-3-15-L	
L	4	16	M 26 x 1.5	42 x 2	48	18				12	36		SKS-4-18-L	
L	6	20	M 30 x 2	48 x 3	55	22	137		65	14	41		SKS-6-22-L	
L	6	25	M 36 x 2	48 x 3	55	28				14	41		SKS-6-28-L	
L	8	32	M 45 x 2	70 x 3	80	35				16	55		SKS-8-35-L	
L	8	40	M 52 x 2	70 x 3	80	42				16	55		SKS-8-42-L	

S series compression connection
to ISO 8434-1 / DIN 2353



Series	Size	Thread			Approx. Dimensions							Part code		
		DN	G	G2	D	D1	L	L1	L2	L3	SW	Female	Male	
S	1	5	M 16 x 1.5	24 x 2		8					12	19	SKM-1-08-S	
S	2	6	M 18 x 1.5	28 x 2		10	100	53.0			12	27	SKM-2-10-S	
S	2	8	M 20 x 1.5	28 x 2		12	100	53.0			12	27	SKM-2-12-S	
S	3	10	M 22 x 1.5	36 x 2		14					14	30	SKM-3-14-S	
S	3	12	M 24 x 1.5	36 x 2		16	105	54.5			14	30	SKM-3-16-S	
S	4	16	M 30 x 2	42 x 2		20	125	66.5			16	36	SKM-4-20-S	
S	6	20	M 36 x 2	48 x 3		25	145	79.5			18	41	SKM-6-25-S	
S	8	25	M 42 x 2	70 x 3		30					20	55	SKM-8-30-S	
S	8	32	M 52 x 2	70 x 3		38					22	55	SKM-8-38-S	

Series	Size	Thread			Approx. Dimensions							Part code		
		DN	G	G2	D	D1	L	L1	L2	L3	SW	Female	Male	
S	1	5	M 16 x 1.5	24 x 2	30	8					12	19	SKS-1-08-S	
S	2	6	M 18 x 1.5	28 x 2	35	10	100		50.0		12	27	SKS-2-10-S	
S	2	8	M 20 x 1.5	28 x 2	35	12	100		50.0		12	27	SKS-2-12-S	
S	3	10	M 22 x 1.5	36 x 2	42	14					14	30	SKS-3-14-S	
S	3	12	M 24 x 1.5	36 x 2	42	16	105		51.0		14	30	SKS-3-16-S	
S	4	16	M 30 x 2	42 x 2	48	20	125		58.5		16	36	SKS-4-20-S	
S	6	20	M 36 x 2	48 x 3	55	25	145		65.0		18	41	SKS-6-25-S	
S	8	25	M 42 x 2	70 x 3	80	30					20	55	SKS-8-30-S	
S	8	32	M 52 x 2	70 x 3	80	38					22	55	SKS-8-38-S	

for the female
please check description
of male and female on
previous pages



Size	G	Part code
1	24 x 2	SS-SKM-1
2	28 x 2	SS-SKM-2
3	36 x 2	SS-SKM-3
4	42 x 2	SS-SKM-4
6	48 x 3	SS-SKM-6
8	70 x 3	SS-SKM-8

for the male

please check description
of male and female on
previous pages



Size	G	Part code
1	24 x 2	SS-SKS-1
2	28 x 2	SS-SKS-2
3	36 x 2	SS-SKS-3
4	42 x 2	SS-SKS-4
6	48 x 3	SS-SKS-6
8	70 x 3	SS-SKS-8

ISO B – dust cap

BOOK INDEX

SECTION INDEX

for the male / probe
please check description
of male and female on
previous pages



Size	Part code
1/8"	SS-St-1/8"
1/4"	SS-St-1/4"
3/8"	SS-St-3/8"
1/2"	SS-St-1/2"
3/4"	SS-St-3/4"
1"	SS-St-1"
1 1/4"	SS-St-1 1/4"
1 1/2"	SS-St-1 1/2"
2"	SS-St-2"

ISO B – dust plug

BOOK INDEX

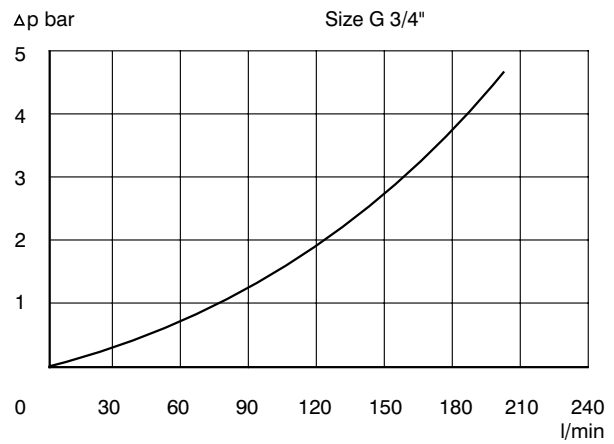
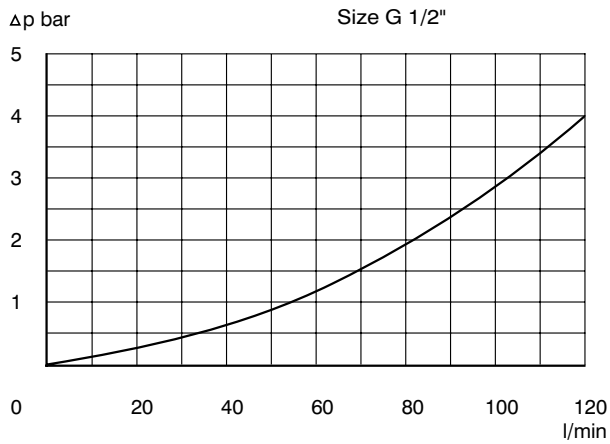
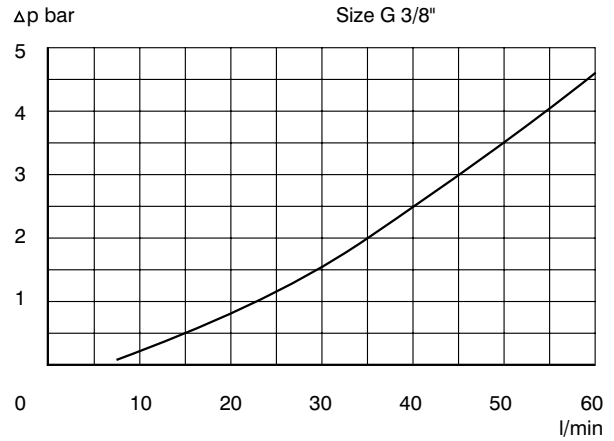
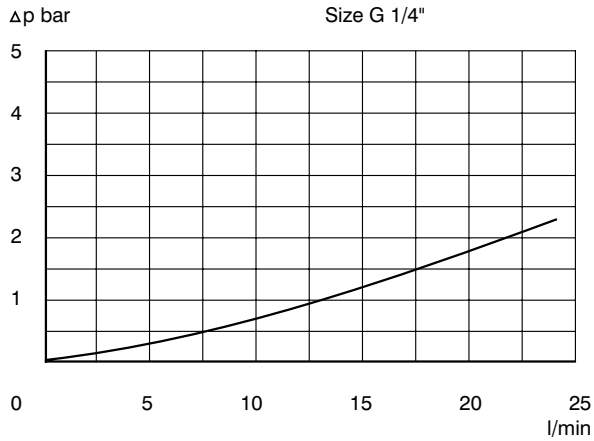
SECTION INDEX

for the female / carrier
 please check description
 of male and female on
 previous pages

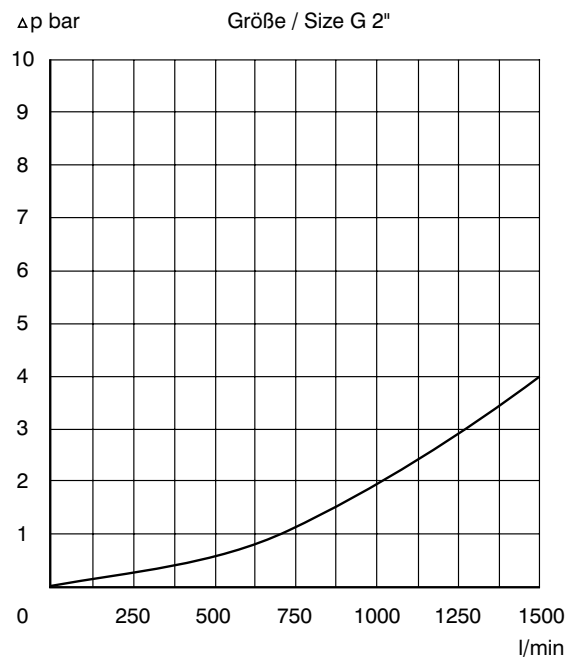
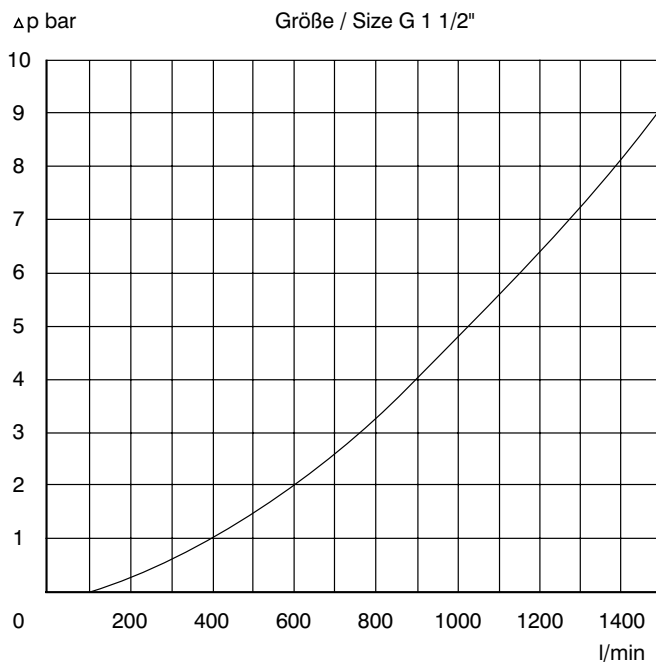
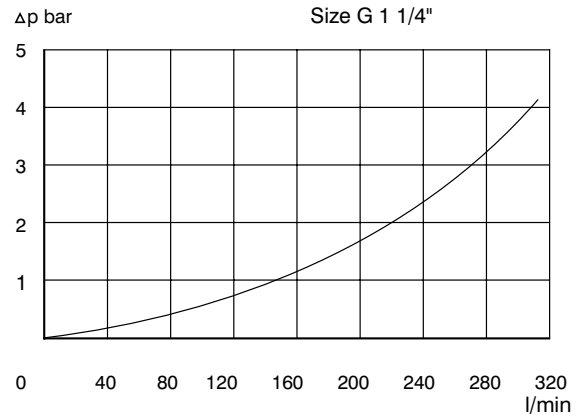
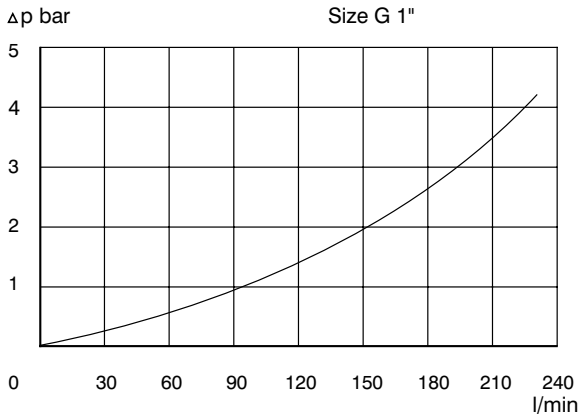


Size	Part code
1/8"	SS-Mu-1/8"
1/4"	SS-Mu-1/4"
3/8"	SS-Mu-3/8"
1/2"	SS-Mu-1/2"
3/4"	SS-Mu-3/4"
1"	SS-Mu-1"
1 1/4"	SS-Mu-1 1/4"
1 1/2"	SS-Mu-1 1/2"
2"	SS-Mu-2"

Pressure drop



Pressure drop



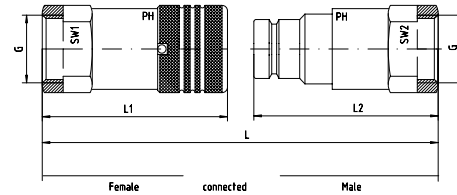
Flat-faced quick-release couplings - BSP parallel female

BOOK INDEX

SECTION INDEX

Flat-faced to ISO 16028

BSP parallel female thread
to ISO 228



Pressure PN	Thread G	Approx. Dimensions					Flow Rate l/min.	Part code Female / carrier
		L	L1	L2	SW1	SW2		
315	1/4"-19	86.0	48.0		22		12	FF-1/4"-F
250	3/8"-19	118.0	68.0		27		23	FF-3/8"-F
250	1/2"-14	125.0	74.0		32		45	FF-1/2"-F
250	3/4"-14	130.0	79.0		36		74	FF-3/4"-F
250	1"-11	153.0	93.0		45		100	FF-1"-F
200	1 1/4"-11	172.5	106.0		55		189	FF-1 1/4"-F
90	1 1/2"-11	173.0	132.5		65		288	FF-1 1/2"-F
60	2"-11	242.0	157.0		75		379	FF-2"-F

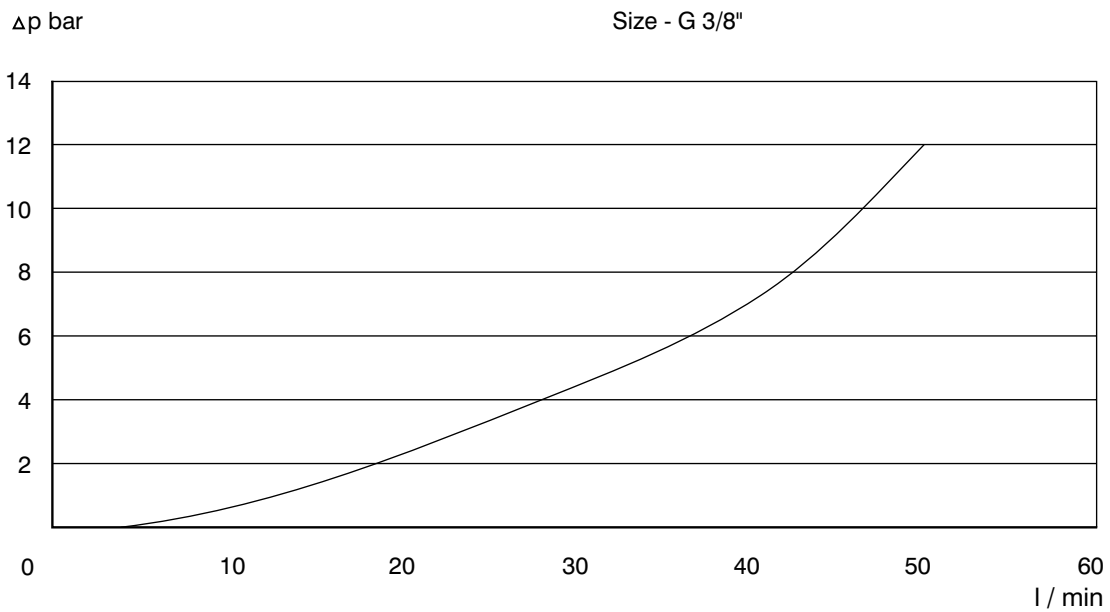
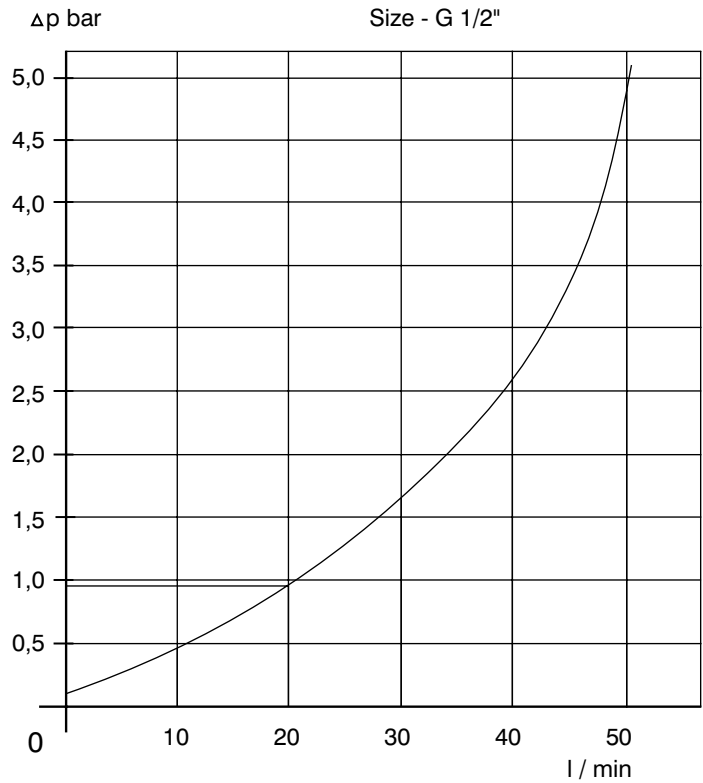
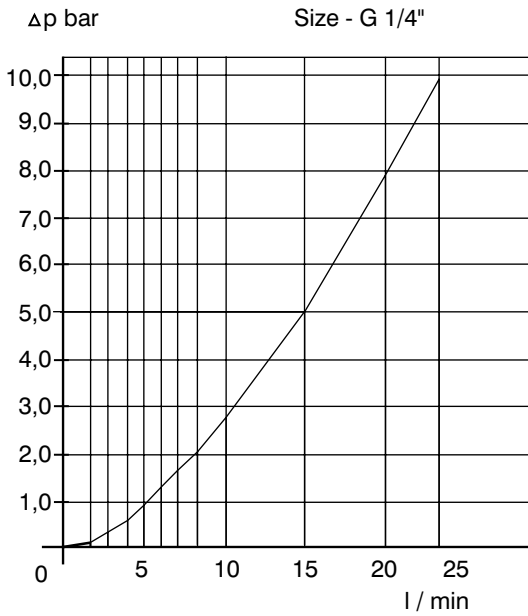
Pressure PN	Thread G	Approx. Dimensions					Flow Rate l/min.	Part code Male / probe
		L	L1	L2	SW1	SW2		
315	1/4"-19	86.0		48		22	12	FF-1/4"-M
250	3/8"-19	118.0		67		27	23	FF-3/8"-M
250	1/2"-14	125.0		68		32	45	FF-1/2"-M
250	3/4"-14	130.0		70		36	74	FF-3/4"-M
250	1"-11	153.0		82		45	100	FF-1"-M
200	1 1/4"-11	172.5		90		55	189	FF-1 1/4"-M
90	1 1/2"-11	173.0		112		65	288	FF-1 1/2"-M
60	2"-11	242.0		124		75	379	FF-2"-M

Flat-faced quick-release couplings are supplied with a ball lock system.

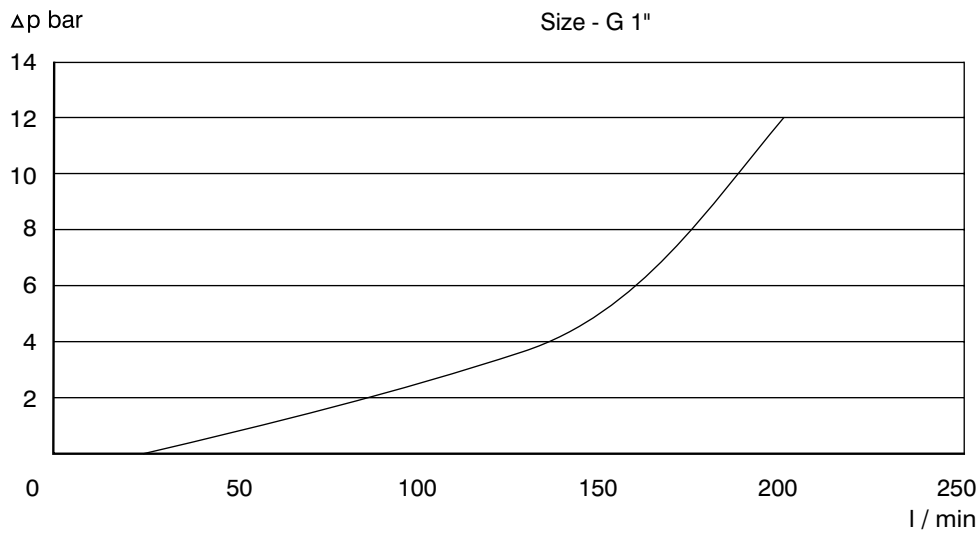
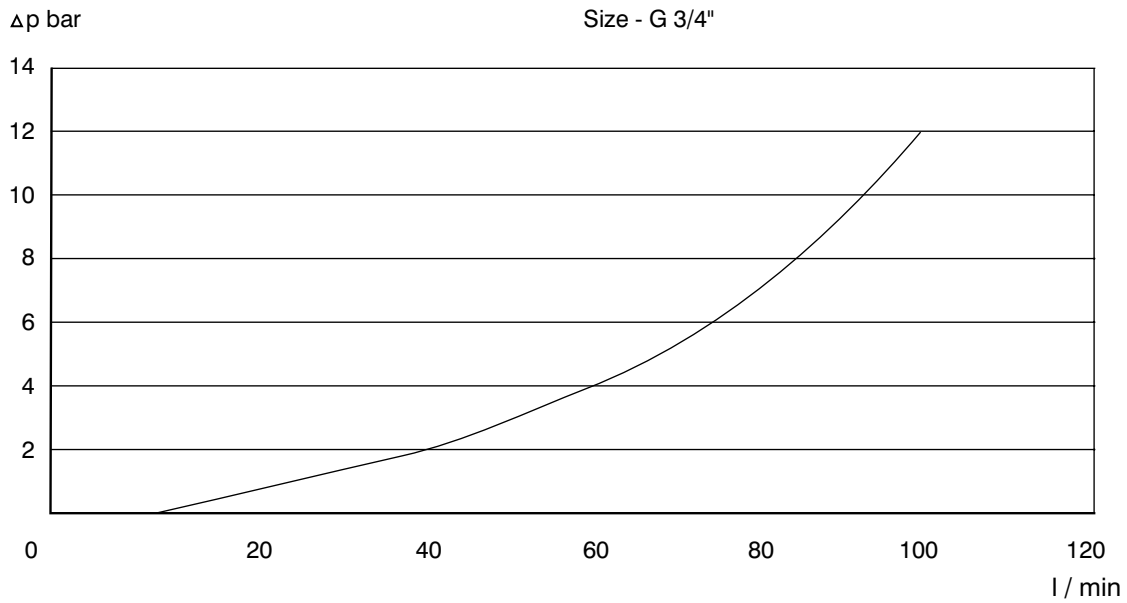
Dirt ingress is minimised due to the nature of a flat-faced profile. The connectors should only be connected and disconnected when the pressure has been relieved from the system. Medium leakage is kept to a minimum and connection and disconnection can theoretically be performed with one hand. Air ingress can occur during connection and disconnection. The standard seals are Viton and PTFE.

Working temperature is from -20°C to +200°C.

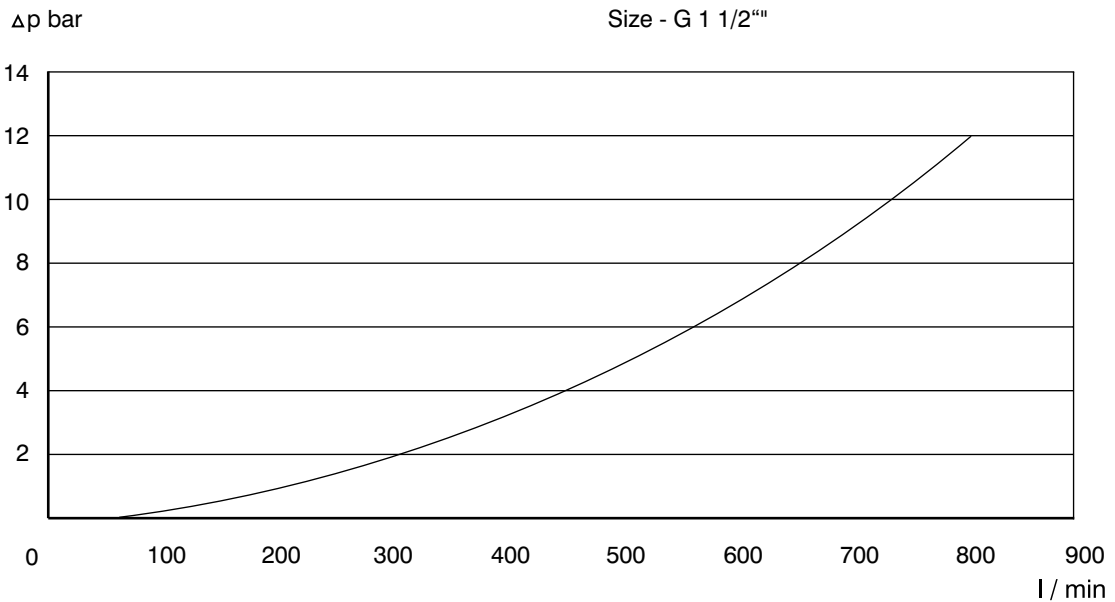
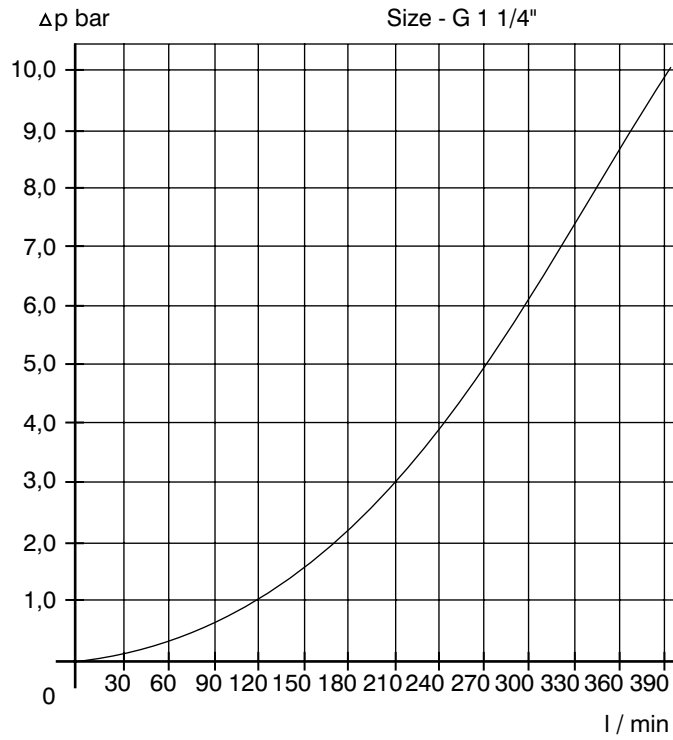
Pressure drop



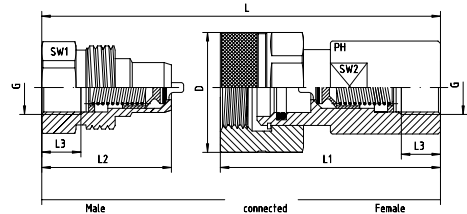
Pressure drop



Pressure drop



BSP parallel thread to ISO 228



DN	Pressure PB	Thread G	Approx. Dimensions							Part code		
			D	L	L1	L2	L3	SW1	SW2	Female / carrier		
06	750	1/4"	30	84.0	68.0		12.5		22		HSK-M-G 1/4"	
10	650	3/8"	40	89.5	75.0		12.5		27		HSK-M-G 3/8"	
12.5	650	1/2"	45	102.0	86.5		15.0		34		HSK-M-G 1/2"	
20	500	3/4"	55	121.0	105.0		16.5		41		HSK-M-G 3/4"	
25	460	1"	60	136.0	120.0		19.0		50		HSK-M-G 1"	
31.5	400	1 1/4"	80	167.0	153.0		21.5		65		HSK-M-G 1 1/4"	
38	360	1 1/2"	98	190.0	170.0		22.5		75		HSK-M-G 1 1/2"	

DN	Pressure PB	Thread G	Approx. Dimensions							Part code		
			D	L	L1	L2	L3	SW1	SW2	Male / probe		
06	750	1/4"		84.0		43.0	12.5	25			HSK-S-G 1/4"	
10	650	3/8"		89.5		48.0	12.5	32			HSK-S-G 3/8"	
12.5	650	1/2"		102.0		53.0	15.0	34			HSK-S-G 1/2"	
20	500	3/4"		121.0		63.0	16.5	46			HSK-S-G 3/4"	
25	460	1"		136.0		72.0	19.0	50			HSK-S-G 1"	
31.5	400	1 1/4"		167.0		86.0	21.5	65			HSK-S-G 1 1/4"	
38	360	1 1/2"		190.0		95.0	22.5	80			HSK-S-G 1 1/2"	

The guideline limitations for connecting and disconnecting these couplings under pressure are as follows... 1/4", 3/8", 1/2" = 10 bar max. residual pressure. 3/4" and 1" = 5 bar max. residual pressure. 1 1/4" and 1 1/2" = 3 bar max. residual pressure.

Standard version technical data –

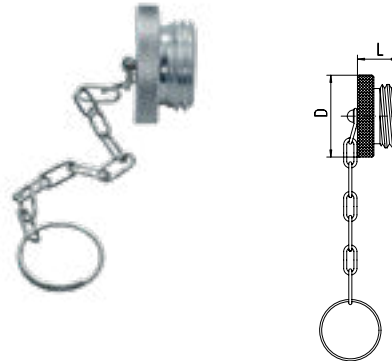
Material – V4A (AISI 316), Viton seals and PTFE backing ring.

Usage – hydraulic fluids, mineral oils and glycol based media, also air and water if treated with corrosion protection additive.

Temperature range: -20°C to +200°C

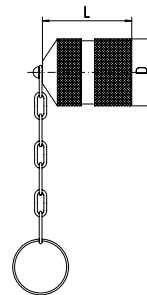
Theoretical burst pressure is 2.5 times nominal working pressure.

Aluminium dust plug
for the female side
please check description
of male and female on
previous pages



Size DN	Approx. Dimensions		Part code Female
	D	L	
10.0	40.0	20	SS-HSKM-10
12.5	45.0	22	SS-HSKM-12.5
20.0	54.5	27	SS-HSKM-20
25.0	60.0	33	SS-HSKM-25
31.5	79.0	38	SS-HSKM-31.5
38.0	98.0	45	SS-HSKM-38

Aluminium dust cap
for the male side
please check
description of male
and female on
previous pages



Size DN	Approx. Dimensions		Part code Male
	D	L	
10.0	35	46.5	SS-HSKS-10
12.5	38	51.0	SS-HSKS-12.5
20.0	50	60.5	SS-HSKS-20
25.0	58	67.0	SS-HSKS-25
31.5	74	81.0	SS-HSKS-31.5
38.0	85	100.0	SS-HSKS-38

Our quick-release couplings are manufactured from stainless steel grade AISI 316 / 4VA, for use in general industrial applications.

The couplings are produced in a range of sizes from 1/8" (DN 04) to 2" (DN 50).

Please check the pressure rating and temperature parameters featured in the supplied data tables for each type of coupling.

Use

It is important to ensure that the couplings are operated within the pressure and temperature guidelines as provided. The chemical compatibility of the medium should be checked against the materials of the coupling's construction.

Pegasus Hydraulics Ltd accepts no liability for any damage to personnel, livestock, environment or equipment sustained as a result of incorrect usage of these fittings.

Cleaning

A double shut-off quick coupling valve can become blocked when it is operated in the closed position. If the coupling has been used

with a harmful or dangerous medium, it should be thoroughly drained down before any maintenance is performed. Any person undertaking cleaning or other maintenance of the couplings should wear PPE in accordance with local Health & Safety regulations.

Seal replacement

Our quick-release couplings are designed and built with a double seal system, which includes a seal which is pressed against the poppet. This results in a lifespan performance greater than that of traditional couplings which only use O-rings. The valve body is secured inside the coupling using a 316 stainless retaining ring, which is itself mounted using a special tool. Because of the special construction of these quick-release couplings, we recommend that you contact our sales team to organise repairs to any damaged components.

Pegasus Hydraulics Ltd accepts no responsibility for and any warranty is invalidated, when these couplings are serviced in any way by anyone other than ourselves.

Installation

Remove any plastic protection caps or plugs just before installation.

Use anti-galling paste to prevent cold welding of the threads. We recommend Gleitmo 810 or High Tech Paste ASW 040 P from section 12.

Secure any hexagonal parts of the coupling against rotation with a spanner.

Never attempt to assemble or dis-assemble the couplings when under pressure.

Protection & storage

The couplings are delivered to the customer in protective packaging, complete with plastic dust protection caps and plugs. Please store the couplings in a clean, dry area away from any sources of extreme heat, light or other adverse environmental conditions. Ensure that any supplied dust protection caps and plugs are in place.

Never store the couplings with the male and female assembled together, always store the coupling separately.

It is important to...

- A. ensure that the male and female are axially aligned prior to connection and disconnection.
- B. never use the coupling as a rotating connection.
- C. never install the couplings within a system which has temperatures outside the coupling's capabilities.
- D. periodically re-lubricate the coupling threads with anti-galling paste (eg. ASW 040 P - see section 12)
- E. never turn the male into the female when the system is under pressure.
- F. not introduce any foreign objects (eg screw driver) into the male / female joint.
- G. support the surrounding pipework correctly to eliminate stresses in the joint.
- H. protect any male / female connectors with dust caps / plugs when not coupled.
- I. ensure that system line media are correctly filtered and said filters are regularly maintained and, if necessary, replaced.
- J. remember that Pegasus Hydraulics Ltd accepts no responsibility or liability and accept no warranty claims in instances where our products have not been utilised in accordance with the guidelines included in this document or other industry standard operation practices. It is important to always apply local Health & Safety laws and always put safety first.