

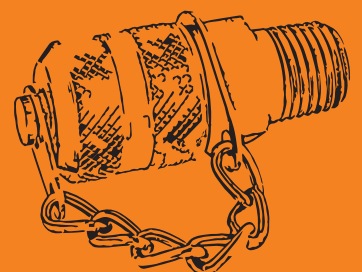
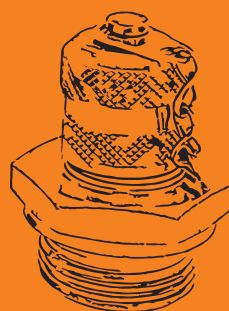
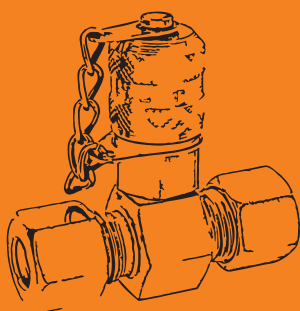
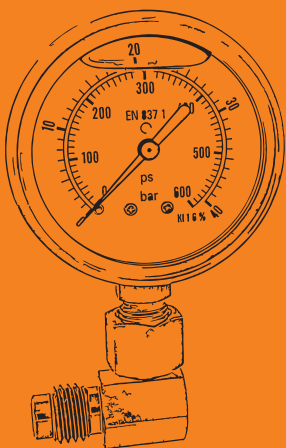
R+L HYDRAULICS

HYDRAULIC COMPONENTS BY TIMKEN



MESSKUPPLUNGEN & DIAGNOSESYSTEME

TEST COUPLINGS & DIAGNOSTIC SYSTEMS



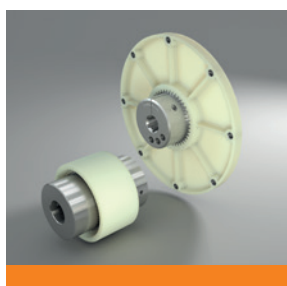


R+L HYDRAULICS

HYDRAULIC COMPONENTS BY TIMKEN

Mit R+L HYDRAULICS, einem Unternehmen der weltweit operierenden Timken Company, setzen Sie auf einen Spezialisten für Qualitätsprodukte erstklassiger Performance in der Fluid- und Antriebstechnik: zum Beispiel bei **Hydraulik-Komponenten der Marke Raja** oder **Antriebstechnik der Marke Lovejoy**.

By choosing R+L HYDRAULICS, a company of the worldwide operating Timken Company, you count on the specialist for quality components of fluid technology and power transmission: e.g. **hydraulic components by Raja** or **power transmission by Lovejoy**.





HOHE ANFORDERUNGEN. BESTE LÖSUNGEN. HIGH REQUIREMENTS. THE BEST SOLUTIONS.

R+L HYDRAULICS entwickelt und fertigt ein ebenso umfassendes, wie auf Ihre Anforderungen maßgeschneidertes Portfolio hochwertiger Komponenten für die Fluid- und Antriebstechnik. Individuelle Lösungen für höchste Ansprüche in Maschinen-, Schiffs- und Fahrzeugbau, in der Stahlindustrie und Offshore-Technik sowie für spezielle Anwendungen des Anlagenbaus, bilden einen wichtigen Bestandteil Ihres Unternehmenserfolgs.

R+L HYDRAULICS develops and manufactures an extensive as well as customized portfolio fitting your requirements for high quality components for fluid technology and power transmission. Individual solutions for high demands of components for mechanical engineering, ship and vehicle construction, steel industry and offshore technology as well as special purposes of plant engineering are an important part of your company's success.

IHRE VORTEILE

- Qualitätskomponenten zu fairen Konditionen
- Verbesserung Ihrer Marktposition durch Nutzung unserer Kompetenzen in Entwicklung, Qualität und Service
- Direkte und persönliche Beratung durch unseren Customer Service
- Schnelle Lieferzeiten durch eine optimierte Supply-Chain
- Projektbezogene Entwicklung unserer Komponenten auf Ihre individuellen Anforderungen
- Verkürzung Ihrer Reaktionszeiten:
Mit der FLUIDWARE® APP kann die Auslegung einer Baugruppe, etwa aus Pumpenträger, Wellenkupplung und Zubehör, umgehend – auf Basis Ihrer individuellen Konditionen – kalkuliert werden.

YOUR ADVANTAGES

- Quality components at fair conditions
- Improvement of your market position by using our competences in development, quality and service
- Direct and personal consultancy by our customer service
- Fast delivery based on an optimized supply chain
- Project related development of our components for your individual needs
- Minimization of your reaction time: The online designer FLUIDWARE APP can calculate the dimensioning of an assembly immediately, for example including a bellhousing, shaft coupling and accessories



MESSKUPPLUNGEN UND DIAGNOSESYSTEME
TEST COUPLINGS AND DIAGNOSTIC SYSTEMS

MESSKUPPLUNGEN

EINSCHRAUBMESSKUPPLUNGEN

Übersicht, Gewinde und Dichtungstypen
Artikelnummern und Optionen
Messkupplungen mit Einschraubgewinde
Schott-Messkupplungen
Steigrohr-Messkupplungen
Schott-Messkupplungen zur Rohrverbindung
Messkupplungen mit Rohrverschraubung
Messkupplungen mit 24° Dichtkegel und O-Ring (DKO)
Schott-Messkupplungen - JIC 37°
Rückschlagkupplungen, 60° Konus mit Überwurfmutter
Messkupplungen mit Überwurfmutter, JIC 37° M16x2
Messkupplungen JIC 37° M16x2
Messkupplungen mit Überwurfmutter ORFS M16x2
Messkupplungen mit Rückschlagventil und Überwurfmutter

PLUG-IN MESSKUPPLUNGEN

Plug-In-Messkupplungen mit Adapter PI000046
Plug-In-Messkupplungen
Plug-In-Messkupplungen mit 24°-Dichtkegel (DKO)
Plug-In-Messkupplungen mit gerader Rohrverschraubung

ADAPTER

ADAPTER

Manometer Direktanschlüsse
Adapter

TEST COUPLINGS

THREADED TEST COUPLINGS

Series	Page
-	5
-	7
T C T	7
T C B	9
T C S	9
T B M	10
T S M	10
T C O	11
T B J	11
T M F	12
T F 1	12
T F F	12
T F 2	13
T F 3	13

PLUG-IN TEST COUPLINGS

T C Q	13
P I T	13
P I O	14
P I S	14

ADAPTERS

ADAPTERS

Adapter Pressure Gauge	A P G	15
Adapters	A D A	15

MESSSCHLÄUCHE UND ARMATUREN

MICRO HOSES AND FITTINGS

MESSSCHLÄUCHE UND SYSTEME

Übersicht Messschläuche und Systeme

MICRO HOSES AND SYSTEMS

Overview Micro Hoses and Systems

Series Page

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Übersicht Staubschutzkappen

Overview Anti-Dust Caps

- 17

SCHLAUCHARMATUREN

FITTINGS

Anschlüsse mit Innengewinde	Fittings Test Couplings Threaded Female	F T F	17
Anschlüsse mit Innengewinde und Sechskantmutter	Fittings Test Couplings Threaded Female, hexagonal nut	F H N	18
Anschlüsse für Manometer mit Gewindeanschluss	Fittings Gauges Threaded	F G T	19
Anschlüsse mit 60°-Dichtkegel DKR und Überwurfmutter	Fittings Swivel Female 60° cone connection DKR	F C 1	21
Anschlüsse mit 24°-Dichtkegel DKL und Überwurfmutter	Fittings Swivel Female 24° cone connection DKL	F C 2	22
Anschlüsse mit 24°-Dichtkegel DKOL und Überwurfmutter	Fittings Swivel Female 24° cone connection DKOL	F C 3	23
Anschlüsse mit 24°-Dichtkegel DKOLL und Überwurfmutter	Fittings Swivel Female 24° cone connection DKOLL	F C 4	24
Anschlüsse mit 24°-Dichtkegel DKOS und Überwurfmutter	Fittings Swivel Female 24° cone connection DKOS	F C 5	24
Anschlüsse mit 74° JIC Dichtkopf DKJ und Überwurfmutter	Fittings Swivel Female 74° JIC connection DKJ	F C 6	25
Anschlüsse ORFS mit UNF Gewinde	Fittings ORFS Female	F O F	26
Rohrstutzenanschlüsse	Fittings Standpipe	F S P	27
Hohlschraubenanschlüsse	Fittings Banjo screw	F B S	28
Anschlüsse mit Außengewinde	Fittings Male	F M F	29
Steckverbinder	Plug-In Connection	F P I	31
Schlauchhülsen	Ferrules	F R	31

MANOMETERSCHUTZVENTILE

PRESSURE GAUGE PROTECTION VALVE

Manometerschutzventile, gerade Ausführung	Pressure gauge protection valve, straight	P G P	32
Manometerschutzventile, 90° Ausführung	Pressure gauge protection valve, 90°	P G P	32
Manometer	Pressure Gauges	P G	34

MESSKUPPLUNGEN ZUR DRUCKÜBERWACHUNG

TEST COUPLINGS FOR PRESSURE CONTROL



R+L HYDRAULICS MESSKUPPLUNGEN

Messkupplungen von R+L HYDRAULICS bieten Endanwendern und Servicemitarbeitern die einfache und sichere Möglichkeit zur Überwachung des Systemdruckes, zur Entlüftung des hydraulischen Systems, der Analyse des Verschmutzungsgrades sowie der Entnahme repräsentativer Fluidproben - temporär als auch dauerhaft.

Durch das integrierte Rückschlagventil können diese Arbeiten unter Druck von bis zu 630 bar erfolgen und erfordern keine Abschaltung der Anlage.

R+L HYDRAULICS TEST COUPLINGS

Test Couplings from R+L HYDRAULICS offer end users and service personnel the simple and safe option of monitoring system pressure, venting the hydraulic system, analysing the degree of contamination and taking representative fluid samples - temporary as well as permanent.

The integrated non-return valve allows this work to be carried out under pressure of up to 630 bar and does not require the system to be shut down.

TECHNISCHE DATEN

Anwendung

- Druckprüfung
- Schmierung
- Entlüftung
- Öl Entnahme

Material

- Stahl, verzinkt
- Stahl, Zink/Nickel
- Edelstahl AISI 316

Medien

- Hydrauliköle
- Mineralöle
- Weitere Medien auf Anfrage

Dichtung

- NBR (-30°C - +125°C)
- Viton (-25°C - +230°C)

TECHNICAL FEATURES

Application

- Pressure control
- Lubrication
- Air bleeding
- Oil sampling

Material

- Galvanised carbon steel
- Steel, zinc/nickel plated
- Stainless steel AISI 316

Fluids

- Hydraulic oils
- Mineral oils
- Other fluids on request

Sealing

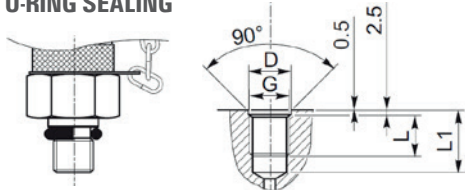
- NBR (-30°C - +125°C)
- Viton (-25°C - +230°C)

GEWINDE UND DICHUNGSTYPEN

SCREW-THREADS AND SEALING TYPES

O-RING DICHUNG

O-RING SEALING

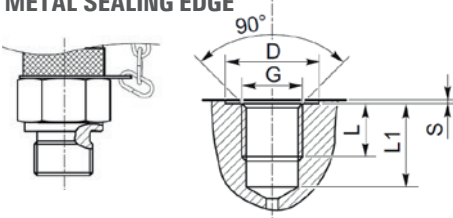


Typ A
Type A

G	D	L	L1
M8x1	9.5	11	15.5
M10x1	11.5	12	16.5
M10x1.25	11	12	16.5
M14x1.5	15.8	12	18

METALLDICHTKANTE

METAL SEALING EDGE

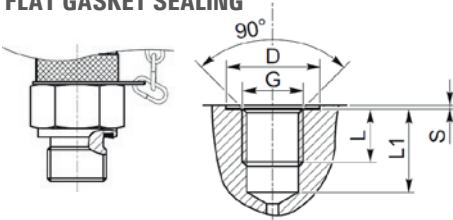


Typ B
Type B

G	Dmin	Lmin	L1min	Smax
M8x1	13	8	10	1
M10x1	15	8	10	1
M12x1.5	18	12	15	1.5
M14x1.5	20	12	15	1.5
M16x1.5	23	12	15	1.5
M18x1.5	25	12	15	2
M20x1.5	27	14	17	2
M22x1.5	28	14	17	2.5
M27x2	33	16	20	2.5
ISO 228 G 1/8"	15	8	10	1
ISO 228 G 1/4"	20	12	15	1
ISO 228 G 3/8"	23	12	15	2
ISO 228 G 1/2"	28	14	18	2.5
ISO 228 G 3/4"	33	16	20	2.5

FLACHDICHUNG

FLAT GASKET SEALING

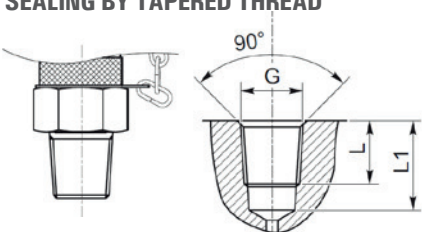


Typ C
Type C

G	D	L	L1	S
M10x1	15	8	10	1
M10x1.25	15	8	10	1
M12x1.5	18	12	15	1.5
M14x1.5	20	12	15	1.5
M16x1.5	23	12	15	1.5
ISO 228 G 1/8"	15	8	10	1
ISO 228 G 1/4"	20	12	15	1.5
ISO 228 G 3/8"	23	12	15	2
ISO 228 G 1/2"	28	14	18	2.5

GEWINDEDICHTUNG KONISCH

SEALING BY TAPERED THREAD

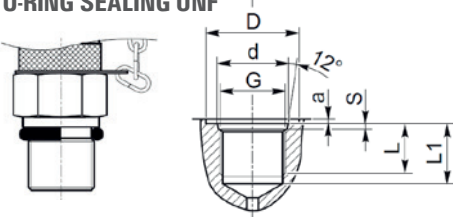


Typ D
Type D

G	L	L1
ISO 7/1 1/8"	5.5	8.5
ISO 7/1 1/4"	8.5	12.5
ISO 7/1 3/8"	8.5	12.5
1/8"-27 NPTF	9	14
1/4"-18 NPTF	9	18.5
3/8"-18 NPTF	14	20
1/2"-14 NPTF	18	24

O-RING DICHUNG UNF

O-RING SEALING UNF



Typ E
Type E

G	d	D	L	L1	S	a
5/16"-24 UNF	9.2	15	11	14	2.4	1.6
3/8"-24 UNF	10.6	16	11	14	2.4	1.6
7/16"-20 UNF	12.4	17	11.5	14	2.4	1.6
1/2"-20 UNF	14	18	11.5	14	2.4	1.6
9/16"-18 UNF	15.6	20	12.7	15.5	2.5	1.6
3/4"-16 UNF	20.5	25	16	20	2.6	2.4

ARTIKELNUMMERN UND OPTIONEN
ARTICLE NUMBERS AND OPTIONS

Bitte geben Sie den in der gewünschten Tabelle angezeigten Bestellschlüssel an und fügen Sie den Buchstaben (M/S/P) der gewählten Verschluss-Option hinzu.

Please indicate the code shown in the required form chart and add the letter (M/S/P) of the choosen cap option.

Aufbau des Bestellcodes Structure of the order code	XX YYYYYY Z
Stellen 1-2 (XX) PositionS1-2 (XX)	Typ / Produktlinie (z.B. TC = Testpunkt) Type / Product line (e.g. TC = Test Coupling)
Stellen 3-8 (YYYYYY) Positions 3-8 (YYYYYY)	Artikelnummer Article number
Letzte Stelle (Z) Last positions (Z)	M = Metallverschluss mit Kette Metal cap with chain S = Metallverschluss mit Kunststoffriemen Metal cap with plastic binder P = Kunststoffverschluss mit Kunststoffriemen Plastic cap with plastic binder

BEISPIELE EXAMPLES
XXYYYYYYM

Metallverschluss mit Kette
Metal cap with chain

XXYYYYYYS

Metallverschluss mit Kunststoffriemen
Metal cap with plastic binder

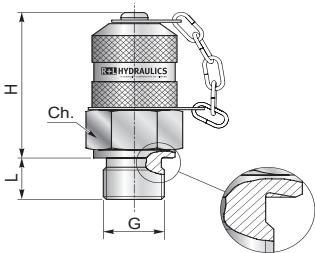
XXYYYYYYP

Kunststoffkappe mit Kunststoffriemen
Plastic cap with plastic binder

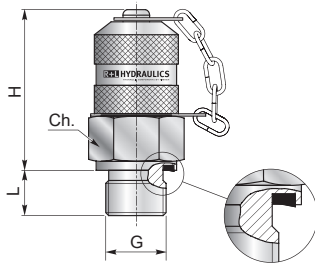


MESSKUPPLUNGEN MIT EINSCHRAUBGEWINDE
TEST COUPLINGS THREADED

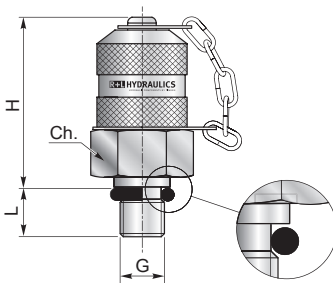
MESSKUPPLUNGEN MIT EINSCHRAUBGEWINDE - SERIE TCT
TEST COUPLINGS THREADED



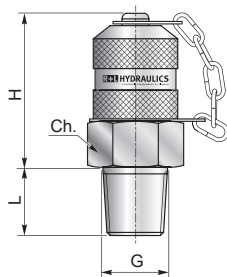
M16x2						
G	H	L	Ch	PN [bar]	Dichtung Seal	Bestellschlüssel Order code
M8x1	37	8	17	630	Type B	TC162010
M10x1	37	8	17	400		TC162011
M12x1.5	37	12	17	630		TC162012
M14x1.5	37	12	19	630		TC162013
M16x1.5	37	12	22	630		TC162014
M18x1.5	37	12	27	630		TC162088
M20x1.5	37	14	27	630		TC162089
M22x1.5	37	14	27	630		TC162090
M27x2	37	16	32	630		TC162091
ISO 228 G 1/8"	37	8	17	400		TC162017
ISO 228 G 1/4"	37	12	19	630		TC162016
ISO 228 G 3/8"	37	12	22	630		TC162018
ISO 228 G 3/4"	37	16	32	630		TC162094
ISO 228 G 1/2"	37	14	27	630		TC162093



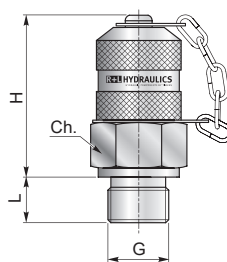
M16x2						
G	H	L	Ch	PN [bar]	Dichtung Seal	Bestellschlüssel Order code
M10x1*	37	8	17	630	Type C	TC162015
M10x1.25	37	8	17	630		TC162092
M12x1.5*	37	12	17	630		TC162019
M14x1.5*	37	12	19	630		TC162020
M16x1.5*	37	12	22	630		TC162021
ISO 228 G 1/8"*	37	8	17	630		TC162024
ISO 228 G 1/4"*	37	12	19	630		TC162023
ISO 228 G 3/8"*	37	12	22	630		TC162025
ISO 228 G 1/2"*	37	14	27	630		TC162022



M16x2						
G	H	L	Ch	PN [bar]	Dichtung Seal	Bestellschlüssel Order code
M8x1*	37	8.5	17	250	O-Ring Type A	TC162001
M10x1*	37	8.5	17	630		TC162002
M10x1.25	37	9	17	630		TC162003
M14x1.5	37	10	19	630		TC162005
7/16"-20 UNF*	37	9	17	630	O-Ring Type E	TC162008
1/2"-20 UNF	37	10	17	630		TC162004
9/16"-18 UNF*	37	10	19	630		TC162009
3/4"-16 UNF	37	14	22	630		TC162006
5/16"-24 UNF	37	9	17	630		TC162007
3/8"-24 UNF	37	9	17	630		TC162087



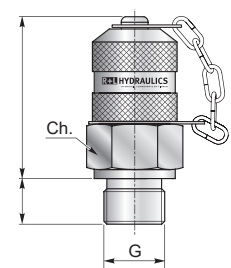
M16x2						
G	H	L	Ch	PN [bar]	Dichtung Seal	Bestellschlüssel Order code
ISO 7/1 R 1/8"*	37	10	17	400	Type D	TC162027
ISO 7/1 R 1/4"*	37	12	19	630		TC162026
ISO 7/1 R 3/8"	37	14	22	630		TC162096
1/8"-27 NPTF*	37	10	17	400		TC162029
1/4"-18 NPTF*	37	17	17	630		TC162028
3/8"-18 NPTF*	37	16	22	630		TC162098
1/2"-14 NPTF*	37	17	24	630		TC162097



M16x1.5						
G	H	L	Ch	PN [bar]	Dichtung Seal	Bestellschlüssel Order code
M8x1	37	8.5	17	250	Type A	TC161001
M10x1	37	8.5	17	630		TC161002
M14x1.5	37	12	19	630	Type C	TC161020
7/16"-20 UNF	37	9	17	630	Type E	TC161008
ISO 228 G 1/4"	37	12	19	630	Type C	TC161023
ISO 228 G 1/8"	37	8	17	630		TC161024
ISO 228 G 1/4"	37	12	19	630	Type B	TC161016

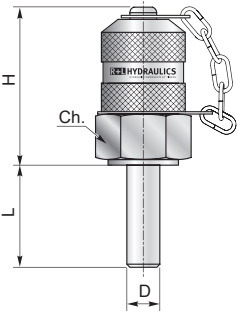
MESSKUPPLUNGEN ZUR DRUCKÜBERWACHUNG

TEST COUPLINGS FOR PRESSURE CONTROL



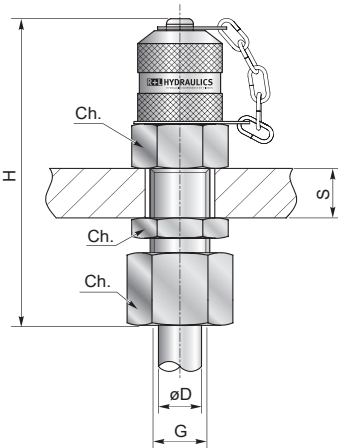
S12.65x1.5						
G	H	L	Ch	PN [bar]	Dichtung Seal	Bestellschlüssel Order code
M8x1	30	8.5	14	630	Type A	TC121001
M10x1	30	8.5	14	630		TC121002
M10x1	30	8	17	630	Type C	TC121015
M12x1.5	30	12	17	630		TC121019
ISO 228 G 1/4"	30	8	19	630		TC121016
ISO 228 G 1/8"	30	8	17	630		TC121017
1/4"-18 NPTF	30	17	17	630	Type D	TC121028

STEIGROHR-MESSKUPPLUNGEN M16x2 - SERIE TCS
TEST COUPLINGS STANDPIPE M16x2



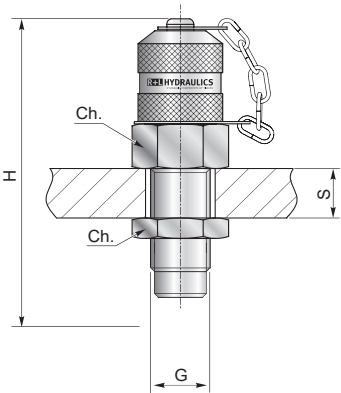
D	H	L	Ch	PN [bar]		Bestellschlüssel Order code
				Serie L Series L	Serie S Series S	
6*	37	20	17	315	630	TC162050
8	37	20	17	315	630	TC162051
10	37	20	17	315	630	TC162052
12	37	20	17	315	630	TC162053
14	37	20	17	-	630	TC162054
15	37	20	17	315	-	TC162055
16	37	20	17	-	400	TC162056

SCHOTT-MESSKUPPLUNGEN ZUR ROHRVERBINDUNG M16x2 - SERIE TBM
TEST COUPLINGS BULKHEAD FOR METAL PIPE FITTING M16x2



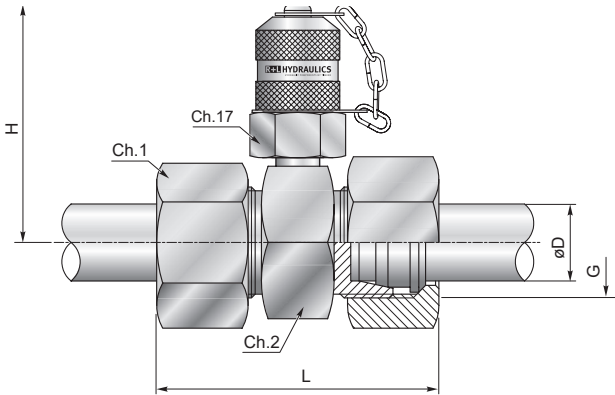
Serie Series	D	G	H	Ch	Ch 1	S max	PN [bar]	Bestellschlüssel Order code
S	8	M16x1.5	80	19	19	20	630	TC162107
	12	M20x1.5	84	24	24			TC162108

SCHOTT-MESSKUPPLUNGEN M16x2 - SERIE TCB
TEST COUPLINGS BULKHEAD M16x2



G	H	CH	Smax	PN [bar]	Bestellschlüssel Order code
M16x2	74.5	19	25	630	TC162114

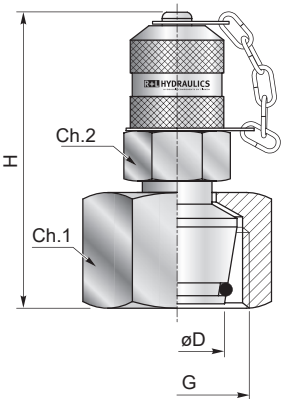
MESSKUPPLUNGEN MIT ROHRVERSCHRAUBUNG - SERIE TSM
TEST COUPLINGS STRAIGHT FOR METAL PIPE FITTING



Serie Series	D	G	H	L	Ch 1	Ch 2	PN [bar]	Bestellschlüssel Order code	Bestellschlüssel Order code	Bestellschlüssel Order code
RINGVERSCHRAUBUNG Ring fitting								M16x2	M16x1.5	S12.65x1.5
L	6	M12x1.5	49	57	14	24	250	TC162057	TC161057	TC121057
	8	M14x1.5	49	51	17	24	250	TC162058	TC161058	TC121058
	10	M16x1.5	49	53	19	24	250	TC162059	TC161059	TC121059
	12	M18x1.5	49	53	22	24	250	TC162060	TC161060	TC121060
	15	M22x1.5	50.5	55	27	27	250	TC162061	TC161061	TC121061
	18	M26x1.5	53	57	32	32	100	TC162062	TC161062	TC121062
	22	M 30x2	53	61	36	32	160	TC162063	TC161063	TC121063
	28	M 36x2	57.5	61	41	41	100	TC162100	TC161100	TC121100
	35	M 45x2	60	69	50	46	100	TC162064	TC161064	TC121064
	42	M 52x2	64.5	71	60	55	100	TC162101	TC161101	TC121101
S	6	M14x1.5	49	55	17	24	630	TC162102	TC161102	TC121102
	8	M16x1.5	49	55	19	24	630	TC162065	TC161065	TC121065
	10	M18x1.5	49	57	22	24	630	TC162066	TC161066	TC121066
	12	M20x1.5	49	57	24	24	630	TC162067	TC161067	TC121067
	14	M22x1.5	49	63	27	27	630	TC162068	TC161068	TC121068
	16	M24x1.5	52	63	30	27	400	TC162069	TC161069	TC121069
	20	M 30x2	53	69	36	32	400	TC162070	TC161070	TC121070
	25	M 36x2	57.5	75	46	41	400	TC162071	TC161071	TC121071
	30	M 42x2	60	81	50	46	250	TC162103	TC161103	TC121103
	38	M 52x2	63	96	60	55	250	TC162072	TC161072	TC121072

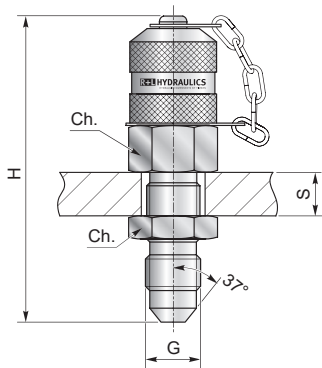
* Edelstahlausführung verfügbar / Available in stainless steel

MESSKUPPLUNGEN MIT 24° DICHTKEGEL DKO UND O-RING - **SERIE TCO**
TEST COUPLINGS WITH 24° O-RING SEALING CONE DKO TYPE



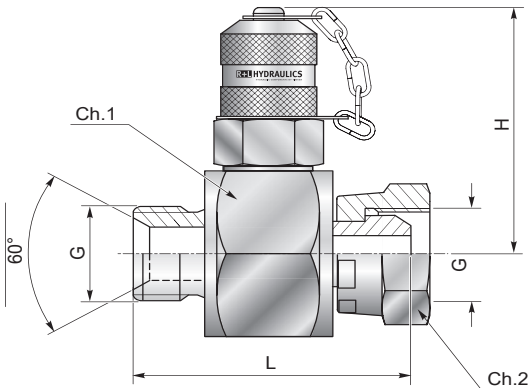
Serie Series	D	G	H	Ch 1	Ch 2	PN [bar]	Bestellschlüssel Order code	Bestellschlüssel Order code	Bestellschlüssel Order code
							M16x2*	M16x1.5	S12.65x1.5
L	6	M12x1.5	53	14	17	250	TC162030	TC161030	TC121030
	8	M14x1.5	55	17	17	250	TC162031	TC161031	TC121031
	10	M16x1.5	55.5	19	19	250	TC162032	TC161032	TC121032
	12	M18x1.5	56.5	22	19	250	TC162033	TC161033	TC121033
	15	M22x1.5	59	27	22	250	TC162034	TC161034	TC121034
	18	M26x1.5	59	32	22	160	TC162035	TC161035	TC121035
	22	M 30x2	59	36	27	160	TC162036	TC161036	TC121036
	28	M 36x2	60	41	17	100	TC162037	TC161037	TC121037
	35	M 45x2	62	50	17	100	TC162038	TC161038	TC121038
	42	M 52x2	65	60	17	100	TC162039	TC161039	TC121039
S	6	M14x1.5	54	17	17	630	TC162040	TC161040	TC121040
	8	M16x1.5	56	19	17	630	TC162041	TC161041	TC121041
	10	M18x1.5	56.5	22	19	630	TC162042	TC161042	TC121042
	12	M20x1.5	58	24	19	630	TC162043	TC161043	TC121043
	14	M22x1.5	59	27	17	400	TC162044	TC161044	TC121044
	16	M24x1.5	56	30	22	400	TC162045	TC161045	TC121045
	20	M 30x2	57	36	27	400	TC162046	TC161046	TC121046
	25	M 36x2	65	46	17	400	TC162047	TC161047	TC121047
	30	M 42x2	65	50	17	250	TC162048	TC161048	TC121048
	38	M 52x2	65	60	17	250	TC162049	TC161049	TC121049

SCHOTT-MESSKUPPLUNGEN - JIC 37° M16X2 - **SERIE TBJ**
TEST COUPLINGS BULKHEAD - JIC 37° M16X2



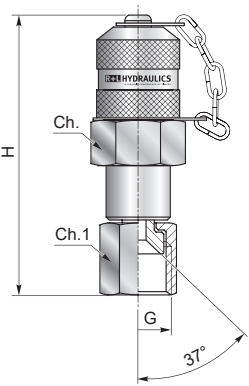
G	H	Ch	Smax	PN [bar]	Bestellschlüssel Order code
7/16"-20 UNF	68	17	9	630	TC162081
1/2"-20 UNF	68	17	9	400	TC162109
9/16"-18 UNF	69	19	9	315	TC162110

RÜCKSCHLAGKUPPLUNGEN MALE - 60° KONUS MIT ÜBERWURFMUTTER - SERIE TMF
TEST COUPLINGS CHECK-VALVE MALE - FEMALE SWIVEL 60°



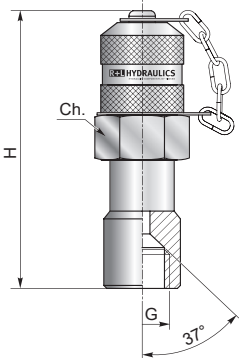
G	H	L	Ch 1	Ch 2	PN [bar]	Bestellschlüssel Order code	Bestellschlüssel Order code	Bestellschlüssel Order code
						M16x2*	M16x1.5	S12.65x1.5
ISO 228 G1/4"	55	53	32	19	400	TC162084	TC161084	TC121084
ISO 228 G3/8"*	55	60	32	22	400	TC162086	TC161086	TC121086
ISO 228 G1/2"	55	60	32	27	400	TC162082	TC161082	TC121082
ISO 228 G3/4"	55	68	32	32	400	TC162085	TC161085	TC121085
ISO 228 G1"	60	74	41	41	315	TC162111	TC161111	TC121111

MESSKUPPLUNGEN MIT ÜBERWURFMUTTER - JIC 37°M16X2 - SERIE TF1
TEST COUPLINGS FEMALE SWIVEL - JIC 37° M16X2



G	H	Ch	Ch 1	PN [bar]	Bestellschlüssel Order code
7/16"-20 UNF	57	17	14	630	TC162074
1/2"-20 UNF	65	17	17	400	TC162077
9/16"-18 UNF	51.5	17	17	315	TC162075
3/4"- 16 UNF	58.5	19	22	315	TC162073
7/8"- 14 UNF	64	24	27	315	TC162104

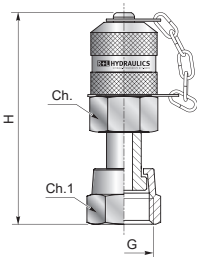
MESSKUPPLUNGEN - JIC 37°M16X2 - SERIE TFF
TEST COUPLINGS FEMALE FIXED - JIC 37° M16X2



G	H	Ch	PN [bar]	Bestellschlüssel Order code
7/16"-20 UNF	63	19	630	TC162105
9/16"-18 UNF*	66	19	315	TC162076

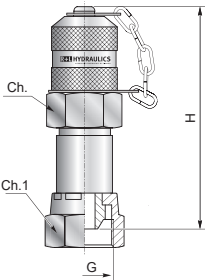
* Edelstahl Ausführung verfügbar / Available in stainless steel

MESSKUPPLUNGEN MIT ÜBERWURFMUTTER ORFS M16x2 - SERIE TF2
TEST COUPLINGS FEMALE SWIVEL ORFS M16X2



G	H	Ch	Ch 1	PN [bar]	Bestellschlüssel Order code
9/16"-18 UNF	53	17	19	400	TC162080
11/16"-16 UNF	54	17	22	400	TC162106
13/16"-16 UNF	58	19	24	400	TC162078

MESSKUPPLUNGEN MIT RÜCKSCHLAGVENTIL UND ÜBERWURFMUTTER M16x2 - SERIE TF3
TEST COUPLINGS FEMALE SWIVEL CHECK-VALVE M16X2



G	H	Ch	Ch 1	PN [bar]	Bestellschlüssel Order code
ISO 228 G 1/4"	62	19	19	630	TC162079

PLUG-IN MESSKUPPLUNGEN
PLUG-IN TEST COUPLINGS

PLUG-IN-MESSKUPPLUNG MIT ADAPTER - SERIE TCQ
TEST COUPLING QUICK WITH ADAPTER

Die diagnostische Schnellkupplung bietet die Möglichkeit zur Steuerung der Parameter von Hochdruck-Ölhydrauliksystemen. Die Buchse hat ein Prüfpunktgewinde M16x2 für den Mikroschlauch. Passend für alle Komponenten gem. ISO 15171-1.

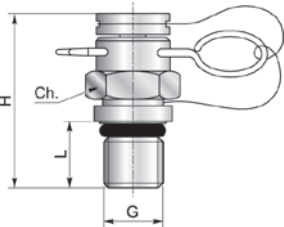
Norm: ISO 15171-1
Anwendung: Diagnose von Hydrauliksystemen
Betriebsdruck: 400 bar
Material: Verzinkter Stahl
Dichtung: NBR (von -30°C bis +125°C)

Diagnostic quick coupling gives the opportunity to control the parameters of high-pressure oil hydraulic systems. Socket part has a test point thread M16x2 for micro hose. Interchangeable with other ISO 15171-1.

Norm: ISO 15171-1
Application: diagnostic of hydraulic systems
Working pressure: 400 bar
Material: zinc steel
Seal: NBR (from -30°C to +125°C)



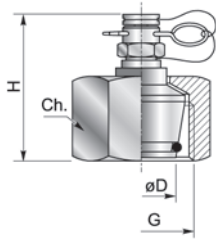
PLUG-IN-MESSKUPPLUNGEN - SERIE PIT
PLUG-IN TEST COUPLINGS



G	H	L	Ch	PN [bar]	Dichtung Sealing	Bestellschlüssel Order code
Metrisches Gewinde / Metric thread (UNI 4535-64)						
M8x1	25	8.5	12	250	Type A	PI000040
M10x1	25	8.7	14	400	Type A	PI000041
ISO 228 G1/4"	25	12	19	400	Type B	PI000043
Konus B.S.P. / B.S.P. taper (UNI ISO 7/1)						
ISO 7/1 R1/8"	25	12	12	400	Type D	PI000044
Konus B.S.P. / B.S.P. taper NPTF (ANSI/ASME B.1.20.1 - 1983)						
1/8" NPTF	25	12	12	400	Type D	PI000045

PLUG-IN-MESSKUPPLUNGEN MIT 24°-DICHTKEGEL (DKO) - SERIE PIO

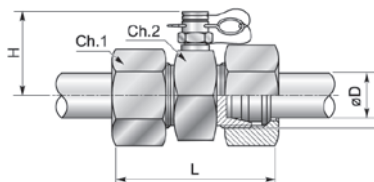
PLUG-IN TEST COUPLINGS WITH 24° O-RING SEALING CONE DKO TYPE



Typ Type	D	G	H	Ch	PN [bar]	Bestellschlüssel Order code
L	8	M14x1.5	39	17	250	PI000001
	10	M16x1.5	39	19	250	PI000002
	12	M18x1.5	39	22	250	PI000003
	15	M22x1.5	39	27	250	PI000004
	18	M26x1.5	39	32	160	PI000005
	22	M 30x2	39	36	160	PI000006
	28	M 35x2	40	41	100	PI000007
	35	M 45x2	42	50	100	PI000008
	42	M 52x2	45	60	100	PI000009
S	8	M14x1.5	39	17	630	PI000010
	10	M16x1.5	39	19	630	PI000011
	10	M18x1.5	39	22	630	PI000012
	12	M20x1.5	39	24	630	PI000013
	14	M22x1.5	39	27	400	PI000014
	16	M24x1.5	40	30	400	PI000015
	20	M 30x2	42	36	400	PI000016
	25	M 36x2	44	46	400	PI000017
	30	M 42x2	44	50	250	PI000018
	38	M 52x2	44	60	250	PI000019

PLUG-IN-MESSKUPPLUNGEN MIT GERADER ROHRVERSCHRAUBUNG - SERIE PIS

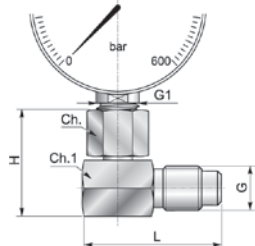
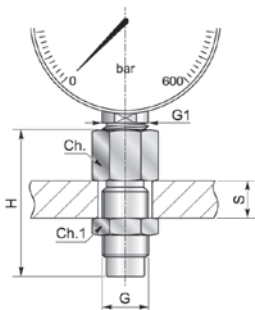
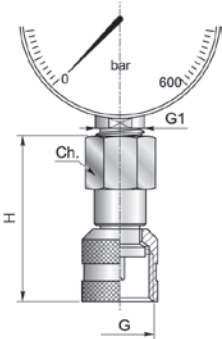
PLUG-IN TEST COUPLINGS STRAIGHT FOR METAL PIPE FITTING



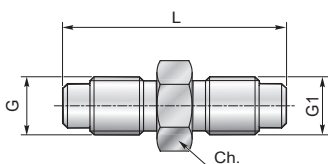
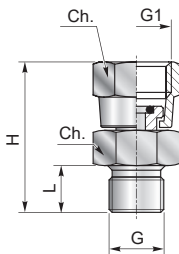
Typ Type	D	G	H	L	Ch1	Ch2	PN [bar]	Bestellschlüssel Order code
L	6	M12x1.5	29	51	14	24	315	PI000020
	8	M14x1.5	29	51	17	24	315	PI000021
	10	M16x1.5	29	53	19	24	315	PI000022
	12	M18x1.5	29	53	22	24	315	PI000023
	15	M22x1.5	30.5	55	27	27	315	PI000024
	18	M26x1.5	33	57	32	32	315	PI000025
	22	M 30x2	33	61	36	32	160	PI000026
	28	M 35x2	37.5	61	41	41	160	PI000027
	35	M 45x2	40	69	50	46	160	PI000028
	42	M 52x2	44.5	71	60	55	160	PI000029
S	6	M14x1.5	29	55	17	24	630	PI000030
	8	M16x1.5	29	55	19	24	630	PI000031
	10	M18x1.5	29	57	22	24	630	PI000032
	12	M20x1.5	29	57	24	24	630	PI000033
	14	M22x1.5	29	63	27	24	630	PI000034
	16	M24x1.5	32	63	30	27	400	PI000035
	20	M 30x2	33	69	36	32	400	PI000036
	25	M 36x2	37.5	75	46	41	400	PI000037
	30	M 42x2	40	81	50	46	400	PI000038
	38	M 52x2	44.5	89	60	55	315	PI000039

ADAPTER FÜR MANOMETER
PRESSURE GAUGE ADAPTERS

MANOMETER DIREKTANSCHLÜSSE - **SERIE APG**
ADAPTER PRESSURE GAUGE



ADAPTER - **SERIE ADA**
ADAPTER



G	G1	H	Ch	PN [bar]	Bestellschlüssel Order code
Manometeradapter / Direct gauge adapter					
M16x2*	ISO 228 G 1/4"	50	19	630	AD000017
M16x2*	ISO 228 G 1/2"	55	27	630	AD000014
M16x1.5	ISO 228 G 1/4"	50	19	630	AD000019
M16x1.5	ISO 228 G 1/2"	55	27	630	AD000016
S12.65x1.5	ISO 228 G 1/4"	50	19	630	AD000018
S12.65x1.5	ISO 228 G 1/2"	55	27	630	AD000015
M16x2*	1/4" - 18 NPTF	50	19	630	AD000020

G	G1	H	Ch	Ch1	Smax	PN [bar]	Bestellschlüssel Order code
Schottmanometeranschluss / Bulkhead pressure gauge connection							
M16x2*	ISO 228 G 1/4"	50	19	19	11	630	AD000006
M16x2*	ISO 228 G 1/2"	57	27	19	13	630	AD000001
M16x1.5	ISO 228 G 1/4"	50	19	19	11	630	AD000018
S12.65x1.5	ISO 228 G 1/4"	50	19	19	11	630	AD000007
M16x2*	1/4" - 18 NPTF	50	19	19	11	630	AD000012

G	G1	H	L	Ch	Ch1	PN [bar]	Bestellschlüssel Order code
90° Manometeranschluss mit Überwurfmutter / Swivel pressure gauge connection 90° angle							
M16x2	ISO 228 G 1/4"	36	42	19	19	630	AD000023
M16x2	ISO 228 G 1/2"	43	42	27	19	630	AD000021
M16x1.5	ISO 228 G 1/4"	36	42	19	19	630	AD000024
M16x1.5	ISO 228 G 1/2"	43	42	27	19	630	AD000022

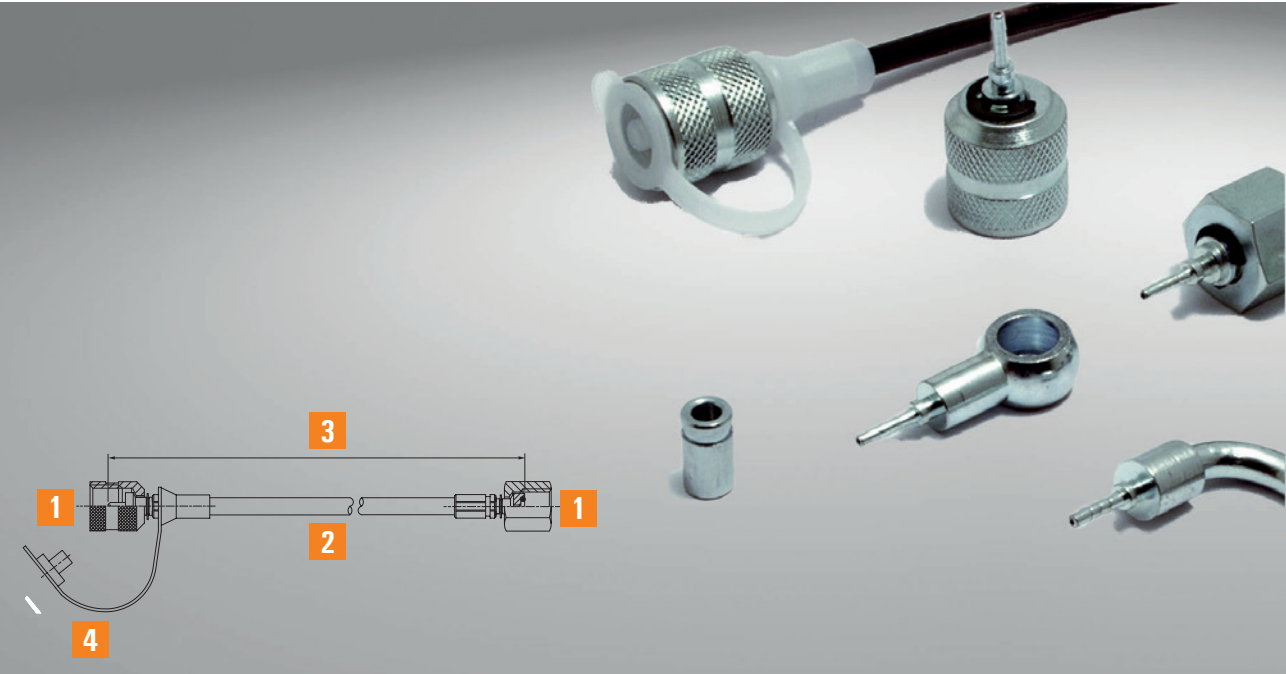
G	G1	H	L	Ch	PN [bar]	Bestellschlüssel Order code
ISO 228 G 1/4"	ISO 228 G 1/4"*	36	11	17	400	AD000009
ISO 228 G 1/2"	ISO 228 G 1/2"*	46	15	27	400	AD000002
ISO 228 G 1/4"	ISO 228 G 1/2"	50	13	27	400	AD000003
ISO 228 G 1/4"	ISO 228 G 1/8"	36.5	14	19	400	AD000010
ISO 7/1 R 1/4"	ISO 228 G 1/4"*	34	12	17	400	AD000011
ISO 7/1 R 1/2"	ISO 228 G 1/2"*	46	16	27	400	AD000005
ISO 7/1 R 1/4"	ISO 228 G 1/2"*	46.5	12	22	400	AD000013
ISO 228 G 3/8"	ISO 228 G 1/2"	49.5	12	27	400	AD000004

G	G1	L	Ch	PN [bar]	Bestellschlüssel Order code
Gerader Adapter für den Anschluss von Schläuchen / Straight adapter for connection of hoses.					
M16x2	M16x2	58	17	630	AD000025
M16x1.5	M16x2	58	17	630	AD000026

* Edelstahl Ausführung verfügbar / Available in stainless steel

MESSSCHLÄUCHE UND SYSTEME

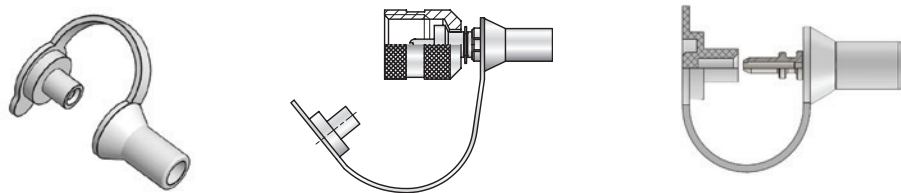
MICRO HOSES AND SYSTEMS



1	Anschlussstyp Fitting type	2	Schlauchtyp Hose type	DN2 / DN3 / DN4
3	Schlauchlänge (+/- 5mm) Hose length (+/- 5mm)	4	Zubehör Assembly	

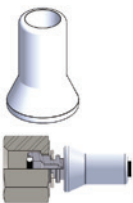
Schlauchtypen / Hose types DN2 - DN3 - DN4				
Für Mineral- und Hydrauliköl Typ ASTM 3, Kraftstoff, Bremsanlagenöl (Typ DOT 4). For mineral and hydraulic oil, type ASTM 3, fuel, brake system oil (type DOT 4).				
		DN2	DN3	DN4
Außendurchmesser Outside diameter	[mm]	5	6	8
Innendurchmesser Inside diameter	[mm]	2	3	4
Maximaler Betriebsdruck Maximal working pressure	[bar]	630	500	500
Minimaler Berstdruck Minimal bursting pressure	[bar]	1890	1890	1500
Minimaler Biegeradius Minimal bending radius	[mm]	20	25	35
Betriebstemperatur Working temperature	°C	-40...+100	-40...+100	-40...+100
Kernmaterial Core material	Thermoplastischer Polyester Thermoplastic polyester			
Geflechtmaterial Braid material	Aramidfaser Aramidic fibre			
Deckmaterial Cover material	Abriebbeständiges Polyurethan Antiabrasion polyurethane			
Bestellcode Order code		MH500022	MH600030	MH800040

STAUBSCHUTZKAPPEN UND STECKANSCHLÜSSE - DN2 / DN4, F16X2, 16X1.5, S12.65X1.5
ANTI-DUST CAPS AND PLUG-IN FITTINGS



Bestellschlüssel Order code
DC100001
DC100002

FERRULES STAUBSCHUTZKAPPE - DN2- UND DN4-ANSCHLÜSSE
FERRULES ANTI-DUST CAP



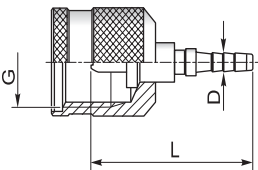
Die montierten Mikroschläuche DN2 und DN4 sind immer komplett mit Staubschutzkappen 32CP000X und/oder 32CS000X. Beim Kauf von Einzelarmaturen sind 32CP000X und/oder 32CS000X in der Teilenummer der Armatur enthalten.

Fitted micro hoses DN2 and DN4 are always complete with anti-dust caps 32CP000X and/or 32CS000X. In case of purchase of loose fittings, 32CP000X and/or 32CS000X are included in fitting part number.

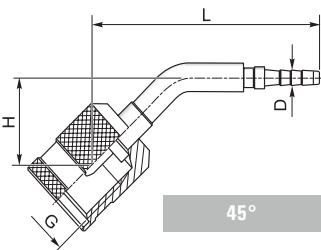
Bestellschlüssel Order code
DC100003
DC100004

SCHLAUCHARMATUREN
FITTINGS

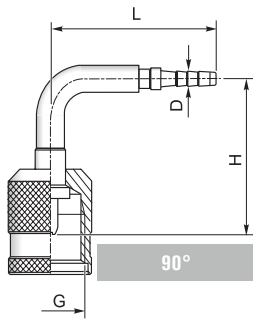
ANSCHLÜSSE MIT INNENGEWINDE - SERIE FTF
FITTING TEST COUPLINGS THREADED FEMALE



Schlauch Hose	G	L	D	Bestellschlüssel Order code
DN2	M16x2*	32.5	2.0	FI200002
	M16x1.5*	32.5	2.0	FI200004
	S12.65x1.5	32.5	2.0	FI200001
DN3	M16x2	37.2	3.0	FI300002
	M16x1.5	37.2	3.0	FI300004
	S12.65x1.5	37.2	3.0	FI300001
DN4	M16x2*	36.5	4.0	FI400002
	M16x1.5*	36.5	4.0	FI400004
	S12.65x1.5	36.5	4.0	FI400001



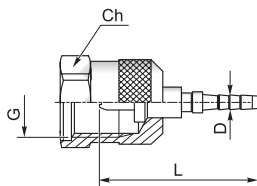
Schlauch Hose	G	L	H	D	Bestellschlüssel Order code
DN2	M16x2	48	18	2.0	FI240002
	M16x1.5	48	18	2.0	FI240004
	S12.65x1.5	48	18	2.0	FI240001
DN3	M16x2	48	18.5	3.0	FI340002
	M16x1.5	48	18.5	3.0	FI340004
	S12.65x1.5	48	18.5	2.0	FI340001
DN4	M16x2	53	18.5	4.0	FI440002
	M16x1.5	53	18.5	4.0	FI440004
	S12.65x1.5	53	18.5	4.0	FI440001



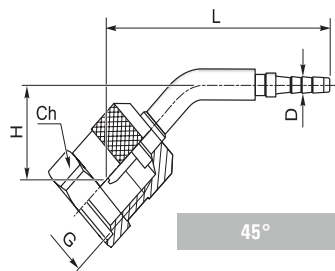
Schlauch Hose	G	L	H	D	Bestellschlüssel Order code
DN2	M16x2*	34.5	31	2.0	FI290002
	M16x1.5	34.5	31	2.0	FI290004
	S12.65x1.5	34.5	31	2.0	FI290001
DN3	M16x2	34.5	31	3.0	FI390002
	M16x1.5	34.5	31	3.0	FI390004
	S12.65x1.5	34.5	31	3.0	FI390001
DN4	M16x2	34.5	31	4.0	FI490002
	M16x1.5	34.5	31	4.0	FI490004
	S12.65x1.5	34.5	31	4.0	FI490001

ANSCHLÜSSE MIT INNENGWINDE UND SECHSKANTMUTTER - **SERIE FHN**

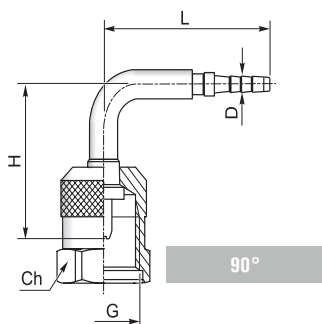
FITTING TEST COUPLINGS THREADED FEMALE, HEXAGONAL NUT



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	M16x2*	32.5	19	2.0	FI200003
	M16x1.5	32.5	19	2.0	FI200005
DN3	M16x2	37.2	19	3.0	FI300003
	M16x1.5	37.2	19	3.0	FI300005
DN4	M16x2	36.5	19	4.0	FI400003
	M16x1.5	36.5	19	4.0	FI400005

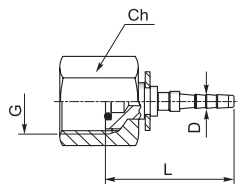


Schlauch Hose	G	L	H	Ch	D	Bestellschlüssel Order code
DN2	M16x2	48	18	19	2.0	FI240003
	M16x1.5	48	18	19	2.0	FI240005
DN3	M16x2	48	18.5	19	3.0	FI340003
	M16x1.5	48	18.5	19	3.0	FI340005
DN4	M16x2	53	18.5	19	4.0	FI440003
	M16x1.5	53	18.5	19	4.0	FI440005

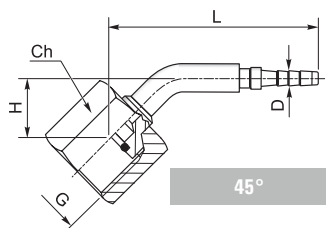


Schlauch Hose	G	L	H	Ch	D	Bestellschlüssel Order code
DN2	M16x2	34.5	31	19	2.0	FI290003
	M16x1.5	34.5	31	19	2.0	FI290005
DN3	M16x2	34.5	31	19	3.0	FI390003
	M16x1.5	34.5	31	19	3.0	FI390005
DN4	M16x2	34.5	31	19	4.0	FI490003
	M16x1.5	34.5	31	19	4.0	FI490005

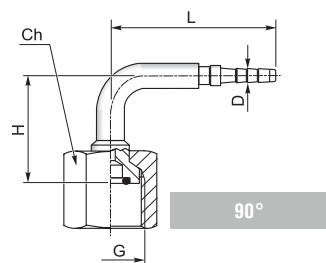
ANSCHLÜSSE FÜR MANOMETER MIT GEWINDEANSCHLUSS - SERIE FGT FITTING GAUGES THREADED



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/4"*	26	19	2.0	FI200020
	G 3/8	24	22	2.0	FI200023
	G 1/2"*	33.5	27	2.0	FI200018
	M12X1.5	26	14	2.0	FI200024
	M14X1.5	26	19	2.0	FI200027
	M20X1.5	33.5	24	2.0	FI200026
DN3	G 1/4"	30	19	3.0	FI300022
	G 1/2"	37.5	27	3.0	FI300020
	M20X1.5	37.5	24	3.0	FI300026
DN4	G 1/4"	36.5	19	4.0	FI400022
	G 1/2"	37.3	27	4.0	FI400020
	M20X1.5	37.3	24	4.0	FI400026

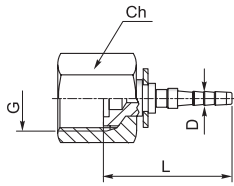


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/4"	14	47	19	2.0	FI240020
	G 1/2"	21	54.5	27	2.0	FI240018
	M20X1.5	21	54.5	24	2.0	FI240026
DN3	G 1/4"	14	47.0	19	3.0	FI340022
	G 1/2"	21	54.5	27	3.0	FI340020
	M20X1.5	21	54.5	24	3.0	FI340026
DN4	G 1/4"	14	52.0	19	4.0	FI440022
	G 1/2"	21	59.5	27	4.0	FI440020
	M20X1.5	21	59.5	24	4.0	FI440026

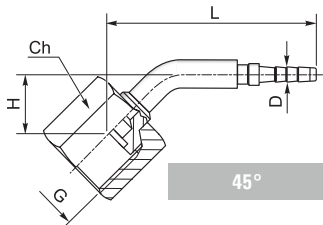


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/4"	25	38	19	2.0	FI290020
	G 1/2"	37.5	41.5	27	2.0	FI290018
	M20X1.5	37.5	41.5	24	2.0	FI290026
DN3	G 1/4"	25	38	19	3.0	FI390022
	G 1/2"	37.5	41.5	27	3.0	FI390020
	M20X1.5	37.5	41.5	24	3.0	FI390026
DN4	G 1/4"	25	43	19	4.0	FI490022
	G 1/2"	37.5	46.5	27	4.0	FI490020
	M20X1.5	37.5	46.5	24	4.0	FI490026

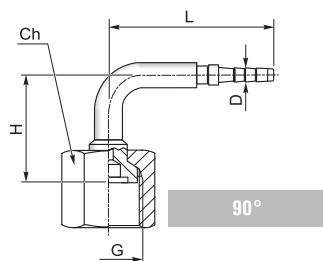
ANSCHLÜSSE FÜR MANOMETER MIT GEWINDEANSCHLUSS UND KUPFERRING- **SERIE FGT** FITTING GAUGES THREADED WITH COPPER RING



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/4"	26	19	2.0	FI200021
	G 1/2"	33.5	27	2.0	FI200019
	M20X1.5	33.5	24	2.0	FI200025
DN3	G 1/4"	30	19	3.0	FI300021
	G 1/2"	37.5	27	3.0	FI300019
	M20X1.5	37.5	24	3.0	FI300025
DN4	G 1/4"	36.5	19	4.0	FI400021
	G 1/2"	37.5	27	4.0	FI400019
	M20X1.5	36.5	24	4.0	FI400025

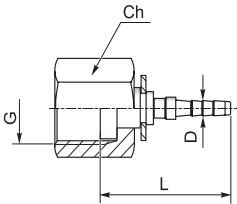


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/4"	14	47	19	2.0	FI240021
	G 1/2"	21	54.5	27	2.0	FI240019
	M20X1.5	21	54.5	24	2.0	FI240025
DN3	G 1/4"	14	47.0	19	3.0	FI340021
	G 1/2"	21	54.5	27	3.0	FI340019
	M20X1.5	21	54.5	24	3.0	FI340025
DN4	G 1/4"	14	52.0	19	4.0	FI440021
	G 1/2"	21	59.5	27	4.0	FI440019
	M20X1.5	21	59.5	24	4.0	FI440025

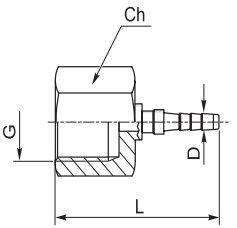


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/4"	25	38	19	2.0	FI290021
	G 1/2"	37.5	41.5	27	2.0	FI290019
	M20X1.5	37.5	41.5	24	2.0	FI290025
DN3	G 1/4"	25	38	19	3.0	FI390021
	G 1/2"	37.5	41.5	27	3.0	FI390019
	M20X1.5	37.5	41.5	24	3.0	FI390025
DN4	G 1/4"	25	43	19	4.0	FI490021
	G 1/2"	37.5	46.5	27	4.0	FI490019
	M20X1.5	37.5	46.5	24	4.0	FI490025

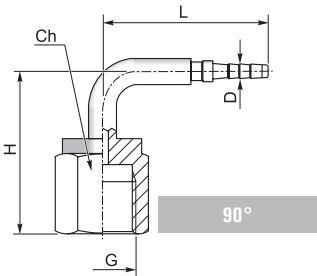
ANSCHLÜSSE FÜR MANOMETER MIT GEWINDEANSCHLUSS UND FLACHDICHTUNG - **SERIE FGT**
FITTING GAUGES THREADED WITH FLAT SEALING



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	22.6	14	2.0	FI200074
	G 1/4"	23.5	17	2.0	FI200073
DN3	G 1/8"	26.6	14	3.0	FI300074
	G 1/4"	27.5	17	3.0	FI300073
DN4	G 1/8"	26.6	14	4.0	FI400074
	G 1/4"	27.5	17	4.0	FI400073

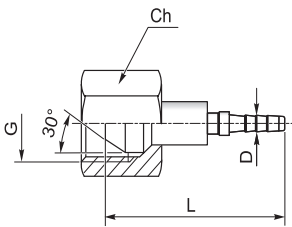


Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	1/4"-18 NPTF	32	19	2.0	FI200028
DN3	1/4"-18 NPTF	36	19	3.0	FI300028
DN4	1/4"-18 NPTF	36	19	4.0	FI400028

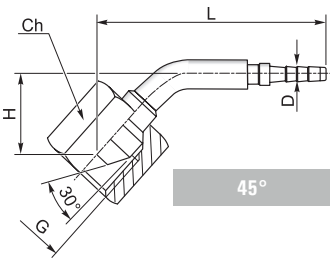


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	1/4"-18 NPTF	34.2	43.7	19	2.0	FI290028
DN3	1/4"-18 NPTF	34.2	43.7	19	3.0	FI390028
DN4	1/4"-18 NPTF	34.2	43.7	19	4.0	FI490028

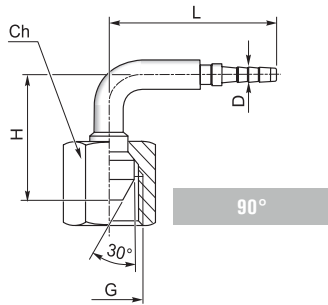
ANSCHLÜSSE MIT 60°-DICHTKEGEL DKR UND ÜBERWURFMUTTER - **SERIE FC1**
FITTING SWIVEL FEMALE 60° CONE CONNECTION DKR



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	24	14	2.0	FI200032
	G 1/4"*	26	17	2.0	FI200031
	M12x1.5	24	14	2.0	FI200030
DN3	G 1/8"	28	14	3.0	FI300032
	G 1/4"	30	17	3.0	FI300031
	M10x1	28	12	3.0	FI300029
DN4	G 1/8"	31	14	4.0	FI400032
	G 1/4"*	32.5	17	4.0	FI400031



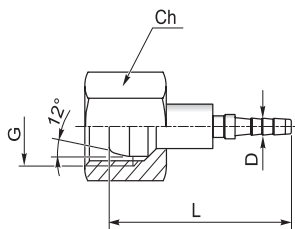
Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	15	44.5	14	2.0	FI240032
	G 1/4"	16	47.5	17	2.0	FI240031
DN3	G 1/8"	15	49.5	14	3.0	FI340032
	G 1/4"	16	47.5	17	3.0	FI340031
DN4	G 1/8"	15	49.5	14	4.0	FI440032
	G 1/4"	16	52.5	17	4.0	FI440031



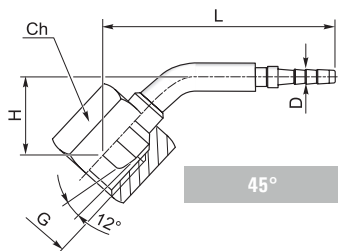
Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	20	34	14	2.0	FI290032
	G 1/4"	27.5	36.5	17	2.0	FI290031
DN3	G 1/8"	26	39	14	3.0	FI390032
	G 1/4"	27.5	36.5	17	3.0	FI390031
DN4	G 1/8"	20	38	14	4.0	FI490032
	G 1/4"	27.5	41.5	17	4.0	FI490031

ANSCHLÜSSE MIT 24°-DICHTKEGEL DKL UND ÜBERWURFMUTTER - **SERIE FC2**

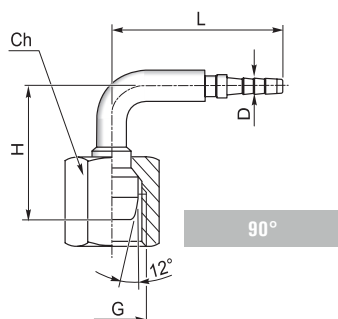
FITTING SWIVEL FEMALE 24° CONE CONNECTION DKL



Schlauch Hose	Ø	G	L	Ch	D	Bestellschlüssel Order code
DN2	6	M12x1.5	36	14	2.0	FI200066
	8	M14x1.5	35	17	2.0	FI200067
	10	M16x1.5	36.5	19	2.0	FI200068
DN3	6	M12x1.5	35	14	3.0	FI300066
	8	M14x1.5	35	17	3.0	FI300067
	10	M16x1.5	36.5	19	3.0	FI300068
DN4	6	M12x1.5	36	14	4.0	FI400066
	8	M14x1.5	36	17	4.0	FI400067
	10	M16x1.5	41.5	19	4.0	FI400068

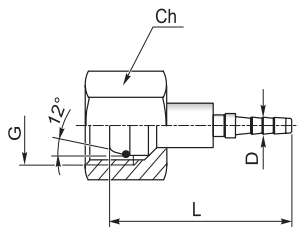


Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M12x1.5	19.5	53.5	14	2.0	FI240066
	8	M14x1.5	19	51	17	2.0	FI240067
	10	M16x1.5	22.5	56	19	2.0	FI240068
DN3	6	M12x1.5	19.5	53.5	14	3.0	FI340066
	8	M14x1.5	19	51	17	3.0	FI340067
	10	M16x1.5	22.5	56	19	3.0	FI340068
DN4	6	M12x1.5	19.5	58.5	14	4.0	FI440066
	8	M14x1.5	19	56	17	4.0	FI440067
	10	M16x1.5	22.5	61	19	4.0	FI440068

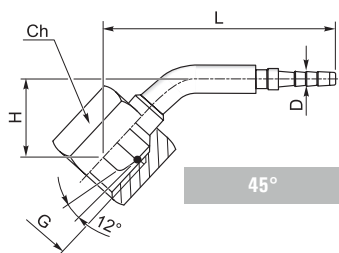


Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M12x1.5	31.5	47.5	14	2.0	FI290066
	8	M14x1.5	36	40	17	2.0	FI290067
	10	M16x1.5	40	41.5	19	2.0	FI290068
DN3	6	M12x1.5	28.5	39	14	3.0	FI390066
	8	M14x1.5	36	40.5	17	3.0	FI390067
	10	M16x1.5	40	41.5	19	3.0	FI390068
DN4	6	M12x1.5	36	47	14	4.0	FI490066
	8	M14x1.5	36	45.5	17	4.0	FI490067
	10	M16x1.5	40	46.5	19	4.0	FI490068

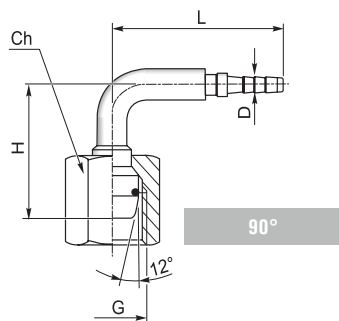
ANSCHLÜSSE MIT 24°-DICHTKEGEL DKOL UND ÜBERWURFMUTTER - SERIE FC3 FITTING SWIVEL FEMALE 24° CONE CONNECTION DKOL



Schlauch Hose	Ø	G	L	Ch	D	Bestellschlüssel Order code
DN2	6*	M12x1.5	31.6	14	2.0	FI200010
	8*	M14x1.5	31.6	17	2.0	FI200012
	10*	M16x1.5	31.5	19	2.0	FI200015
DN3	12	M18x1.5	34	22	2.0	FI200016
	6	M12x1.5	35	14	3.0	FI300010
	8	M14x1.5	35	17	3.0	FI300012
DN4	10	M16x1.5	36.5	19	3.0	FI300015
	6*	M12x1.5	35.5	14	4.0	FI400010
	8	M14x1.5	36	17	4.0	FI400012
	10	M16x1.5	36.5	19	4.0	FI400015
	12	M18x1.5	38	22	4.0	FI400016



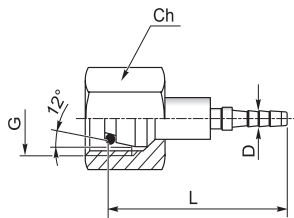
Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M12x1.5	15	46	14	2.0	FI240010
	8	M14x1.5	19	51	17	2.0	FI240012
	10	M16x1.5	19	56	19	2.0	FI240015
DN3	6	M12x1.5	15	50	14	3.0	FI340010
	8	M14x1.5	19	51	17	3.0	FI340012
	10	M16x1.5	22.5	61	19	3.0	FI340015
DN4	6*	M12x1.5	15	50	14	4.0	FI440010
	8	M14x1.5	19	56	17	4.0	FI440012
	10	M16x1.5	22.5	61	19	4.0	FI440015
	12	M18x1.5	22.5	61	22	4.0	FI440016



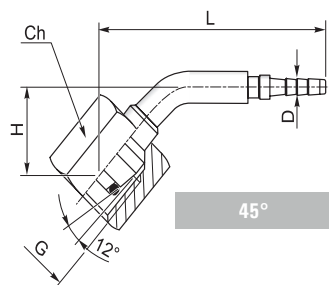
Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M12x1.5	25	34	14	2.0	FI290010
	8	M14x1.5	36	40.5	17	2.0	FI290012
	10	M16x1.5	40	41.5	19	2.0	FI290015
DN3	6	M12x1.5	25	38	14	3.0	FI390010
	8	M14x1.5	36	40.5	17	3.0	FI390012
	10	M16x1.5	40	46.5	19	3.0	FI390015
DN4	6	M12x1.5	25	38	14	4.0	FI490010
	8	M14x1.5	36	45.5	17	4.0	FI490012
	10	M16x1.5	40	46.5	19	4.0	FI490015
	12	M18x1.5	40	46.5	22	4.0	FI490016

ANSCHLÜSSE MIT 24°-DICHTKEGEL DKOLL UND ÜBERWURFMUTTER - SERIE FC4

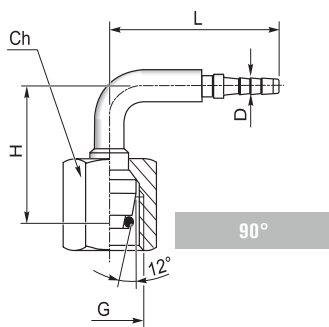
FITTING SWIVEL FEMALE 24° CONE CONNECTION DKOLL



Schlauch Hose	Ø	G	L	Ch	D	Bestellschlüssel Order code
DN2	4	M8x1	29.5	10	2.0	FI200069
	6	M10x1	30	12	2.0	FI200072
DN3	4	M8x1	33	10	3.0	FI300069
	6	M10x1	34	12	3.0	FI300072
DN4	4	M8x1	33	10	4.0	FI400069
	6	M10x1	34	12	4.0	FI400072



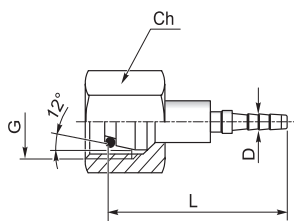
Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M10x1	15	53	12	2.0	FI240072
DN3	6	M10x1	15	57	12	3.0	FI340072
DN4	6	M10x1	15	57	12	4.0	FI440072



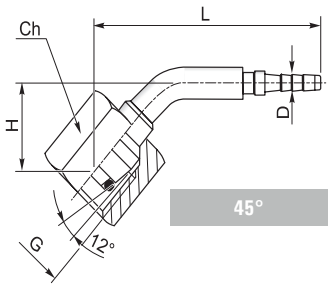
Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M10x1	28.5	39	12	2.0	FI290072
DN3	6	M10x1	28.5	43	12	3.0	FI390072
DN4	6	M10x1	24.5	47.3	12	4.0	FI490072

ANSCHLÜSSE MIT 24°-DICHTKEGEL DKOS UND ÜBERWURFMUTTER - SERIE FC5

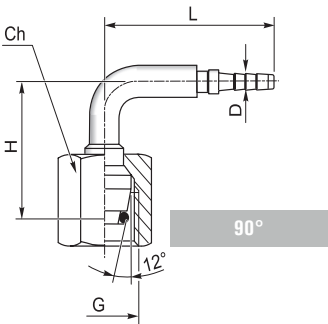
FITTING SWIVEL FEMALE 24° CONE CONNECTION DKOS



Schlauch Hose	Ø	G	L	Ch	D	Bestellschlüssel Order code
DN2	6*	M14x1.5	31.6	17	2.0	FI200011
	8*	M16x1.5	31.6	19	2.0	FI200013
	10*	M18x1.5	31.5	22	2.0	FI200014
	12*	M20x1.5	34	24	2.0	FI200017
DN3	6	M14x1.5	35	17	3.0	FI300011
	8	M16x1.5	35	19	3.0	FI300013
	10	M18x1.5	36.5	22	3.0	FI300014
DN4	6*	M14x1.5	35.5	17	4.0	FI400011
	8*	M16x1.5	36	19	4.0	FI400013
	10	M18x1.5	36.5	22	4.0	FI400014

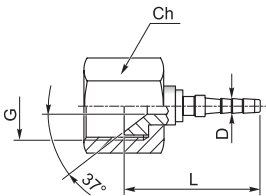


Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M14x1.5	14.5	43	17	2.0	FI240011
	8	M16x1.5	19	51	19	2.0	FI240013
	10	M18x1.5	19	56	22	2.0	FI240014
DN3	6	M14x1.5	14.5	50	17	3.0	FI340011
	8	M16x1.5	19	51	19	3.0	FI340013
	10	M20x1.5	22.5	61	22	3.0	FI340014
DN4	6*	M14x1.5	14.5	50	17	4.0	FI440011
	8	M16x1.5	19	56	19	4.0	FI440013
	10	M18x1.5	22.5	61	22	4.0	FI440014
	12	M20x1.5	22.5	61	24	4.0	FI440017

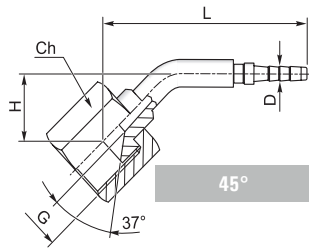


Schlauch Hose	Ø	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	6	M14x1.5	24.5	34.5	17	2.0	FI290011
	8	M16x1.5	36	40.5	19	2.0	FI290013
	10	M18x1.5	40	41.5	22	2.0	FI290014
DN3	6	M14x1.5	24.5	38.5	17	3.0	FI390011
	8	M16x1.5	36	40.5	19	3.0	FI390013
	10	M20x1.5	40	46.5	22	3.0	FI390014
DN4	6*	M14x1.5	24.5	38.5	17	4.0	FI490011
	8	M16x1.5	36	45.5	19	4.0	FI490013
	10	M18x1.5	40	46.5	22	4.0	FI490014
	12	M20x1.5	40	46.5	24	4.0	FI490017

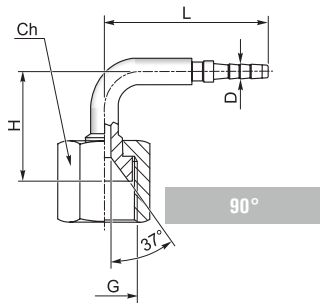
ANSCHLÜSSE MIT 74°-JIC DICHTKOPF DKJ UND ÜBERWURFMUTTER - **SERIE FC6**
FITTING SWIVEL FEMALE 74° JIC CONNECTION DKJ



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	7/16-20 UNF*	25	14	2.0	FI200035
	1/2"-20 UNF	26	17	2.0	FI200034
	3/8-24 UNF*	24.5	12	2.0	FI200036
	9/16-18 UNF	28.5	17	2.0	FI200037
DN3	7/16-20 UNF	29	14	3.0	FI300035
	1/2"-20 UNF	30	17	3.0	FI300034
	3/8-24 UNF	27	12	3.0	FI300036
	9/16-18 UNF	32.5	17	3.0	FI300037
DN4	7/16-20 UNF*	28	14	4.0	FI400035
	1/2"-20 UNF	30	17	4.0	FI400034
	3/8-24 UNF	28.5	12	4.0	FI400036



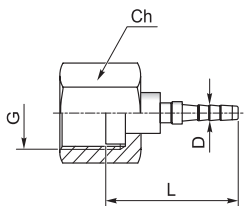
Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	7/16-20 UNF	13	46.5	14	2.0	FI240035
	1/2"-20 UNF	13	46.5	17	2.0	FI240034
	3/8-24 UNF	14	46	12	2.0	FI240036
DN3	7/16-20 UNF	13	46.5	14	3.0	FI340035
	1/2"-20 UNF	13	51.5	17	3.0	FI340034
	3/8-24 UNF	14	46	12	3.0	FI340036
DN4	7/16-20 UNF	13	51.5	14	4.0	FI440035
	1/2"-20 UNF	13	51.5	17	4.0	FI440034
	3/8-24 UNF	14	46	12	4.0	FI440036



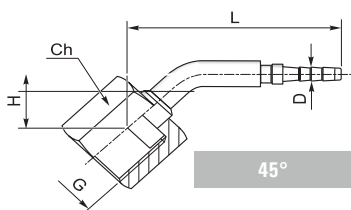
Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	7/16-20 UNF	23	38.5	14	2.0	FI290035
	1/2"-20 UNF	23	38.5	17	2.0	FI290034
	3/8-24 UNF	24	40	12	2.0	FI290036
DN3	7/16-20 UNF	23	46.5	14	3.0	FI390035
	1/2"-20 UNF	23	43.5	17	3.0	FI390034
	3/8-24 UNF	24	40	12	3.0	FI390036
DN4	7/16-20 UNF*	23	43.5	14	4.0	FI490035
	1/2"-20 UNF	23	43.5	17	4.0	FI490034
	3/8-24 UNF	24	40	12	4.0	FI490036

ANSCHLÜSSE ORFS MIT UNF GEWINDE - SERIE FOF

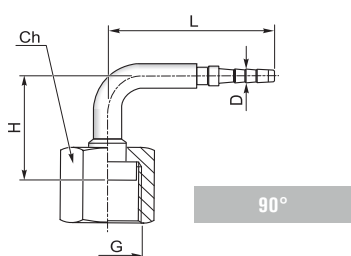
FITTING ORFS FEMALE



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	9/16-18 UNF	25	19	2.0	FI200075
DN3	9/16-18 UNF	27	19	3.0	FI300075
	11/16-16 UNF	35	22	3.0	FI300077
DN4	9/16-18 UNF	31	19	4.0	FI400075

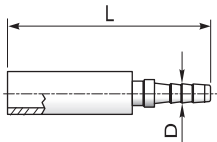


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	9/16-18 UNF	13	47	19	2.0	FI240075
DN3	9/16-18 UNF	14	46	19	3.0	FI340075
DN4	9/16-18 UNF	14	46	19	4.0	FI440075

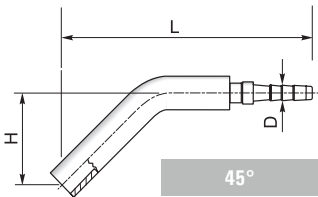


Schlauch Hose	G	H	L	Ch	D	Bestellschlüssel Order code
DN2	9/16-18 UNF	24	40	19	2.0	FI290075
DN3	9/16-18 UNF	24	40	19	3.0	FI390075
DN4	9/16-18 UNF	24	40	19	4.0	FI490075

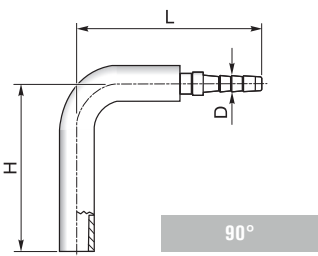
ROHRSTUTZENANSCHLÜSSE - **SERIE FSP**
FITTING STANDPIPE



Schlauch Hose	Ø	L	D	Bestellschlüssel Order code
DN2	4	36	2.0	FI200009
	6*	36	2.0	FI200007
	8*	36	2.0	FI200008
DN3	4	41	3.0	FI300009
	6	36	3.0	FI300007
	8	37.5	3.0	FI300008
DN4	4	41	4.0	FI400009
	6	41	4.0	FI400007
	8	41	4.0	FI400008



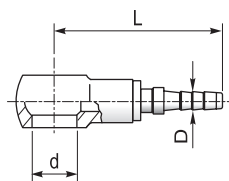
Schlauch Hose	Ø	H	L	D	Bestellschlüssel Order code
DN2	4	14.5	43	2.0	FI240009
	6	16.5	44	2.0	FI240007
	8	20	52	2.0	FI240008
DN3	4	14.5	43	3.0	FI340009
	6	16.5	44	3.0	FI340007
	8	20	52	3.0	FI340008
DN4	4	14.5	48	4.0	FI440009
	6	16.5	49	4.0	FI440007
	8	20	57	4.0	FI440008



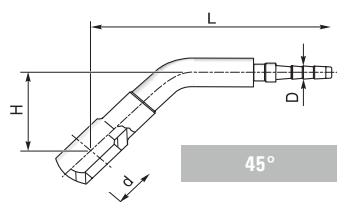
Schlauch Hose	Ø	H	L	D	Bestellschlüssel Order code
DN2	4	25.5	33	2.0	FI290009
	6	28	32	2.0	FI290007
	8	37	41	2.0	FI290008
DN3	4	25.5	33	3.0	FI390009
	6	28	32	3.0	FI390007
	8	37	41	3.0	FI390008
DN4	4	25.5	38	4.0	FI490009
	6	28	37	4.0	FI490007
	8	37	46	4.0	FI490008

HOHLSCHRAUBENANSCHLÜSSE - SERIE FBS

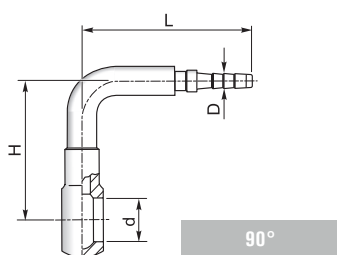
FITTING BANJO SCREW



Schlauch Hose	d	Hohlschraube Banja Screw	L	D	Bestellschlüssel Order code
DN2	8	M8x1	29.5	2.0	FI200039
	10	M10x1 - G1/8"	31.5	2.0	FI200038
DN3	8*	M8x1	36.5	3.0	FI300039
	10	M10x1 - G1/8"	31.5	3.0	FI300038
DN4	8*	M8x1	34.5	4.0	FI400039
	10	M10x1 - G1/8"	36.5	4.0	FI400038
	14	M14x1,5 - G1/4"	40.5	4.0	FI400033

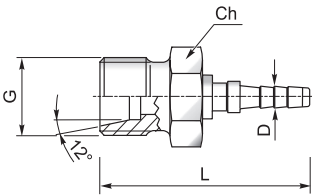


Schlauch Hose	d	H	L	D	Bestellschlüssel Order code
DN2	8	22.5	45	2.0	FI240039
	10	17	51	2.0	FI240038
DN3	8	15	51.5	3.0	FI340039
	10	17	56	3.0	FI340038
DN4	8	15	51.5	4.0	FI440039
	10	17	56	4.0	FI440038

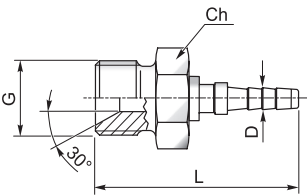


Schlauch Hose	d	H	L	D	Bestellschlüssel Order code
DN2	8	26	36	2.0	FI290039
	10	36	34	2.0	FI290038
DN3	8	26	41	3.0	FI390039
	10	28	39	3.0	FI390038
DN4	8	26	41	4.0	FI490039
	10	36	40	4.0	FI490038

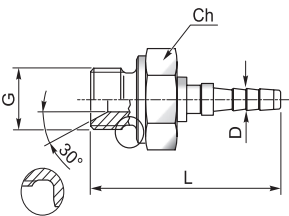
ANSCHLÜSSE MIT AUßENGEWINDE - **SERIE FMF**
FITTING MALE



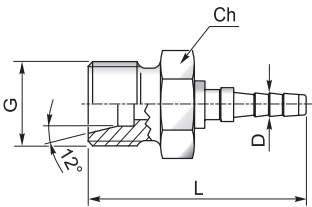
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	M12x1.5	30	14	2.0	FI200056
	M14x1.5	30	17	2.0	FI200057
	M16x1.5	31	19	2.0	FI200058
DN3	M12x1.5	34	14	3.0	FI300056
	M14x1.5	34	17	3.0	FI300057
	M16x1.5	35	19	3.0	FI300058
DN4	M12x1.5	35	14	4.0	FI400056
	M14x1.5	35	17	4.0	FI400057
	M16x1.5	36	19	4.0	FI400058



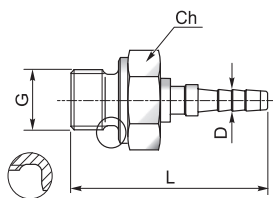
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	29	14	2.0	FI200054
	G 1/4"	34	19	2.0	FI200053
DN3	G 1/8"	34.5	14	3.0	FI300054
	G 1/4"	36.5	19	3.0	FI300053
DN4	G 1/8"	37	14	4.0	FI400059
	G 1/4"	36.5	19	4.0	FI400054
	G 3/8"	42.5	22	4.0	FI400053



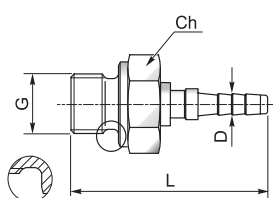
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	31.5	14	2.0	FI200061
	G 1/4"	35.5	19	2.0	FI200060
DN3	G 1/8"	35	14	3.0	FI300061
	G 1/4"	39	19	3.0	FI300060
DN4	G 1/8"	33.5	14	4.0	FI400061
	G 1/4"	40.5	19	4.0	FI400060



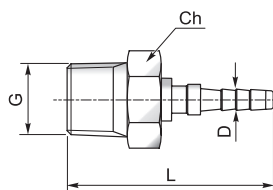
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	M14x1.5	32	17	2.0	FI200063
	M16x1.5*	32	19	2.0	FI200064
	M18x1.5	33.5	22	2.0	FI200065
DN3	M14x1.5	36	17	3.0	FI300063
	M16x1.5	36	19	3.0	FI300064
	M18x1.5	36.5	22	3.0	FI300065
DN4	M14x1.5	37	17	4.0	FI400063
	M16x1.5	37	19	4.0	FI400064
	M18x1.5	38.5	22	4.0	FI400065
	M20x1.5	39	24	4.0	FI400062



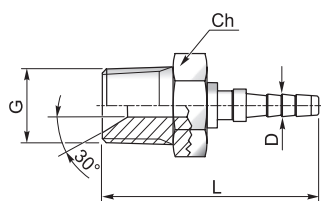
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	M8x1	30	12	2.0	FI200049
	M10x1	30	14	2.0	FI200050
	M12x1.5	31	17	2.0	FI200051
	M5x1	30	12	2.0	FI200052
DN3	M8x1	34	12	3.0	FI300049
	M10x1	34	14	3.0	FI300050
	M12x1.5	35	17	3.0	FI300051
DN4	M8x1	35	12	4.0	FI400049
	M10x1	35	14	4.0	FI400050
	M12x1.5	36	17	4.0	FI400051



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	28.5	14	2.0	FI200048
	G 1/4"	35.5	19	2.0	FI200047
DN3	G 1/8"	33.5	14	3.0	FI300048
	G 1/4"	39	19	3.0	FI300047
DN4	G 1/8"	33.5	14	4.0	FI400048
	G 1/4"	39	19	4.0	FI400047



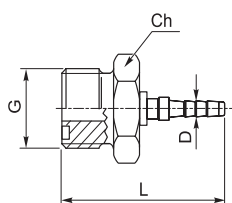
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	G 1/8"	28.5	12	2.0	FI200046
	G 1/4"	31.5	14	2.0	FI200045
DN3	G 1/8"	33.5	12	3.0	FI300046
	G 1/4"	36.5	14	3.0	FI300045
DN4	G 1/8"	31.5	12	4.0	FI400046
	G 1/4"	36.5	14	4.0	FI400045



Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	1/8"-27 NPTF	28	12	2.0	FI200044
	1/4"-18 NPTF*	35.5	17	2.0	FI200043
DN3	1/8"-27 NPTF	33	12	3.0	FI300044
	1/4"-18 NPTF	38	17	3.0	FI300043
DN4	1/8"-27 NPTF	35	12	4.0	FI400044
	1/4"-18 NPTF	40.5	17	4.0	FI400043

ANSCHLÜSSE ORFS MIT UNF AUßENGEWINDE - SERIE FMF

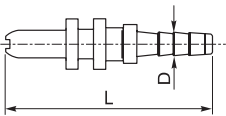
ORFS MALE FITTING, UNF THREAD



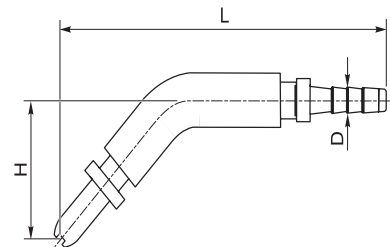
Schlauch Hose	G	L	Ch	D	Bestellschlüssel Order code
DN2	9/16-18 UNF	29	17	2.0	FI200076
DN3	9/16-18 UNF	33	17	3.0	FI300076
DN4	9/16-18 UNF	33	17	4.0	FI400076

* Edelstahl Ausführung verfügbar / Available in stainless steel

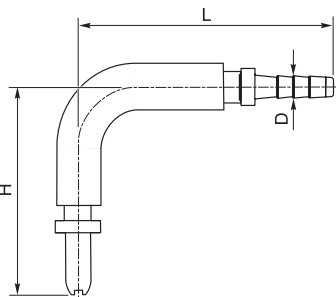
STECKVERBINDER - SERIE FPI
PLUG-IN CONNECTION



Schlauch Hose	L	D	Bestellschlüssel Order code
DN2*	27	2.0	FI200006
DN3	31	3.0	FI300006
DN4	31	4.0	FI400006

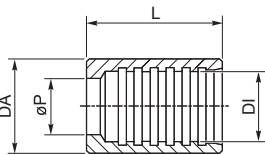


Schlauch Hose	H	L	D	Bestellschlüssel Order code
DN2	24	57	2.0	FI240006
DN3	24	59	3.0	FI340006
DN4	24	59	4.0	FI440006



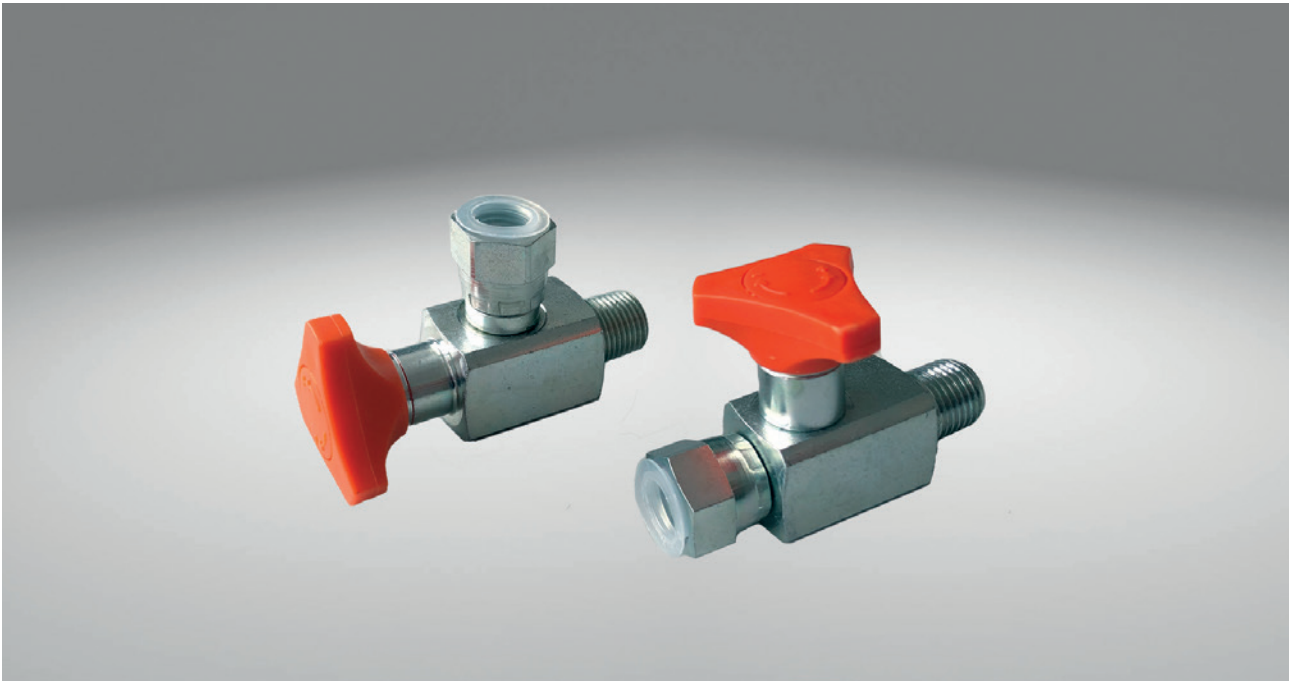
Schlauch Hose	H	L	D	Bestellschlüssel Order code
DN2	28	32	2.0	FI290006
DN3	28	36	3.0	FI390006
DN4	28	36	4.0	FI490006

SCHLAUCHHÜLSEN - SERIE FR
FERRULES

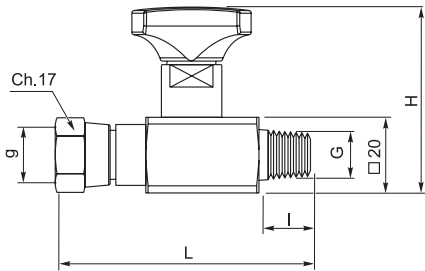


DA	DI	L	ØP	Ø Press	PN [bar]	Bestellschlüssel Order code
8.0*	5.1	15	4.5	7.1	600	FR200001
9.0*	6.5	17	6	7.6	600	FR300001
12*	9.2	17	6.5	10.2	600	FR400001

MANOMETERSCHUTZVENTILE
PRESSURE GAUGE PROTECTION VALVE

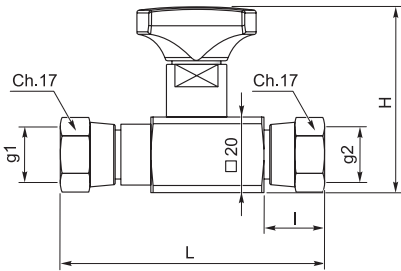


MANOMETERSCHUTZVENTILE MIT GERADEM ANSCHLUSS UND ÜBERWURFMUTTER - **SERIE PGP**
PRESSURE GAUGE PROTECTION VALVE SWIVEL STRAIGHT CONNECTION



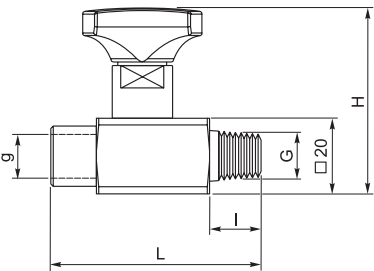
G	g	H	L	I	PN [bar]	Bestellschlüssel Order code
ISO 7/1 R 1/4"	ISO 228 G 1/4"	50	60	14	400	PGP000001

MANOMETERSCHUTZVENTILE MIT GERADEM ANSCHLUSS UND ÜBERWURFMUTTERN - **SERIE PGP**
PRESSURE GAUGE PROTECTION VALVE DOUBLE SWIVEL STRAIGHT CONNECTION



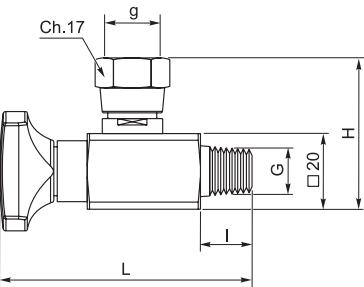
g1	g2	H	L	I	PN [bar]	Bestellschlüssel Order code
ISO 228 G 1/4"	ISO 228 G 1/4"	50	60	14	400	PGP000004

MANOMETERSCHUTZVENTILE MIT GERADEM ANSCHLUSS - SERIE PGP
PRESSURE GAUGE PROTECTION VALVE STRAIGHT CONNECTION



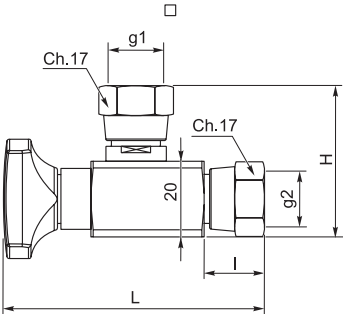
G	g	H	L	I	PN [bar]	Bestellschlüssel Order code
ISO 7/1 R 1/4"	ISO 228 G 1/4"	50	58	14	400	PGP000002
ISO 7/1 R 1/4"	ISO 7/1 R 1/4"	50	58.5	14	400	PGP000003

MANOMETERSCHUTZVENTILE MIT 90°-ANSCHLUSS UND ÜBERWURFMUTTER - SERIE PGP
PRESSURE GAUGE PROTECTION VALVE SWIVEL 90° CONNECTION



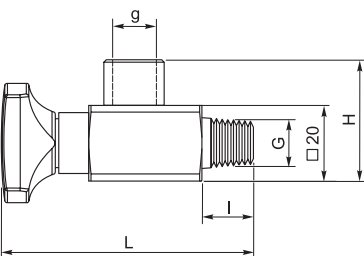
G	g	H	L	I	PN [bar]	Bestellschlüssel Order code
ISO 7/1 R 1/4"	ISO 228 G 1/4"	40	68	14	400	PGP090001

MANOMETERSCHUTZVENTILE MIT 90°-ANSCHLUSS UND ÜBERWURFMUTTERN - SERIE PGP
PRESSURE GAUGE PROTECTION VALVE DOUBLE SWIVEL 90° CONNECTION



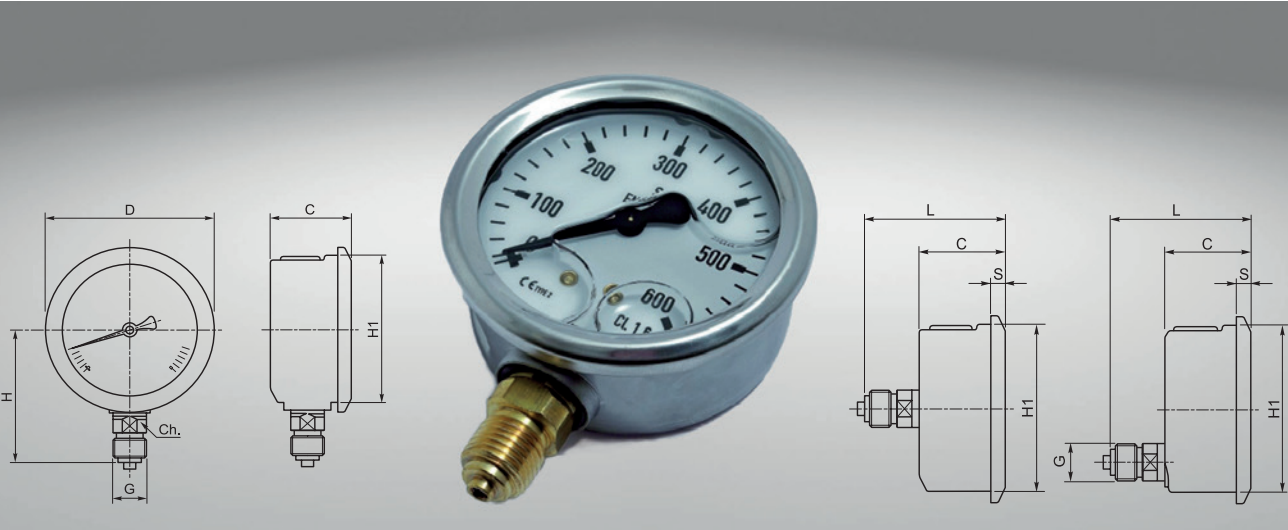
g1	g2	H	L	I	PN [bar]	Bestellschlüssel Order code
ISO 228 G 1/4"	ISO 228 G 1/4"	40	68	14	400	PGP090003

MANOMETERSCHUTZVENTILE MIT 90°-ANSCHLUSS - SERIE PGP
PRESSURE GAUGE PROTECTION VALVE 90° CONNECTION



G	g	H	L	I	PN [bar]	Bestellschlüssel Order code
ISO 7/1 R 1/4"	ISO 228 G 1/4"	40	68	14	400	PGP090002

MANOMETER
PRESSURE GAUGES



D 63		
Scala / Range [bar]	Bestellschlüssel Order code	
-1 ... 0	PG063001R	PG063001P
0 ... 0.6	PG063002R	PG063002P
0 ... 1	PG063003R	PG063003P
0 ... 1.6	PG063004R	PG063004P
0 ... 2.5	PG063005R	PG063005P
0 ... 4	PG063006R	PG063006P
0 ... 6	PG063007R	PG063007P
0 ... 10	PG063008R	PG063008P
0 ... 16	PG063009R	PG063009P
0 ... 25	PG063010R	PG063010P
0 ... 40	PG063011R	PG063011P
0 ... 60	PG063012R	PG063012P
0 ... 100	PG063013R	PG063013P
0 ... 160	PG063014R	PG063014P
0 ... 250	PG063015R	PG063015P
0 ... 315	PG063016R	PG063016P
0 ... 400	PG063017R	PG063017P
0 ... 600	PG063018R	PG063018P
0 ... 1000	PG063019R	PG063019P

D 100		
Scala / Range [bar]	Bestellschlüssel Order code	
-1 ... 0	PG100001R	PG100001P
0 ... 0.6	PG100002R	PG100002P
0 ... 1	PG100003R	PG100003P
0 ... 1.6	PG100004R	PG100004P
0 ... 2.5	PG100005R	PG100005P
0 ... 4	PG100006R	PG100006P
0 ... 6	PG100007R	PG100007P
0 ... 10	PG100008R	PG100008P
0 ... 16	PG100009R	PG100009P
0 ... 25	PG100010R	PG100010P
0 ... 40	PG100011R	PG100011P
0 ... 60	PG100012R	PG100012P
0 ... 100	PG100013R	PG100013P
0 ... 160	PG100014R	PG100014P
0 ... 250	PG100015R	PG100015P
0 ... 315	PG100016R	PG100016P
0 ... 400	PG100017R	PG100017P
0 ... 600	PG100018R	PG100018P
0 ... 1000	PG100019R	PG100019P

	D	ISO228	H	H1	L [mm]	S [mm]	C [mm]	Ch [mm]	KI % F.S
D 63	63	G 1/4" A	54	62	56	6.5	32	14	1.6
D 100	100	G 1/2" B	87	100	81.5	8	48	22	1



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