



# Quick Coupling Products

Catalogue 3800-MOB/UK





### **For your safety!**

Under certain circumstances, quick couplings can be subjected to extreme loadings such as vibration and uncontrolled pressure peaks.

Only by using genuine Parker Components and following Parker assembly instructions can you be assured of the reliability and safety of the product and their conformity to the applicable standards.

Failure to follow this rule can adversely affect the functional safety and reliability of products, cause personal injury, property damage, and result in loss of your guarantee rights.

Subject to alteration.

For your safety: see safety guide (pages 62-63).

All dimensions used in this catalogue are in mm otherwise the units are specified. The rated pressure is in Mpa.

If necessary you can also use the conversion table on pages 64 to 66.

The products described herein, including without limitation, products features, dimensions, specifications and designs are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

For the product availability of Parker components, please refer to price list 3893.

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# QUICK COUPLINGS FOR THE MOBILE MARKET

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Features	Series	Traditional Couplings					Rigid Couplings				
		IA Series	2000 Series			QHPA Series	9404 Series	9454 Series	Additional Series	DCP Series	
			Group 2	Group 3	Group 4						
 <b>Picture</b>											
 <b>Standards</b>		ISO 7241-1-A	ISO 7241-1-A	ISO 7241-1-A	ISO 7241-1-A	Inter-changeable with similar models	ISO 7241-1-A	ISO 7241-1-A	ISO 7241-1-A		
 <b>Material</b>											
	Aluminium										
	Brass										
	Steel	●	●	●	●	●	●	●	●		
	Stainless Steel										
	Polyamide									●	
 <b>Size</b>											
	1/8"										
	1/4"	●							●		
	3/8"	●			●	●			●		
	1/2"	●	●	●	●	●	●	●	●	●	
	5/8"										
	3/4"	●				●			●		
	1"	●				●			●		
	1 1/4"										
 <b>Rated pressure* Mpa</b>											
	1/8"										
	1/4"	35									
	3/8"	28			25	45.0					
	1/2"	25	25	25	25	40.0	25	25	25		
	5/8"										
	3/4"	28				31.5					
	1"	28				31.5					
	1 1/4"										
 <b>Temperature range (with NBR seal)</b>		-30°C +110°C	-30°C +110°C	-30°C +110°C	-30°C +110°C	-30°C +110°C	-30°C +110°C	-30°C +110°C	-30°C +110°C	-20°C +100°C	
 <b>Seal</b>		NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR	
 <b>Coupler style</b>											
	Manual	●	●							●	
	Screw-to-connect					●					
	Push-Pull			●	●		●	●	●		
	Push-to-connect										
 <b>Valving</b>											
	Poppet	●	●	●	●	●	●	●	●		
	Flat-faced poppet										
	Ball		or ●		or ●						
 <b>Connection possible with pressure on</b>											
	Female body					●		●	●		
	Male tip					●	●	●	●		
 <b>Locking mechanism</b>											
	Screw type					●					
	With cam										
	Ball locking mechanism	●	●	●	●		●	●	●		
 <b>Thread</b>		BSPP	BSPP, NPTF, Metric	BSPP, Metric	BSPP, NPTF, Metric, UNF	BSPP Metric	UNF, Metric	UNF, Metric	On request		
 <b>Full technical data page</b>		4	10	11	13	17	21	24	26	28	

\*Data shown here are indicative for quick selection purposes only. Please check technical data indicated for each individual series.



ISO 7241-1-A	Steel	1/4", 3/8", 1/2", 3/4" & 1"	max 35 Mpa	-30°C + 110°C	NBR	Manual	Poppet	No	Ball locking mechanism	BSP

### Main characteristics

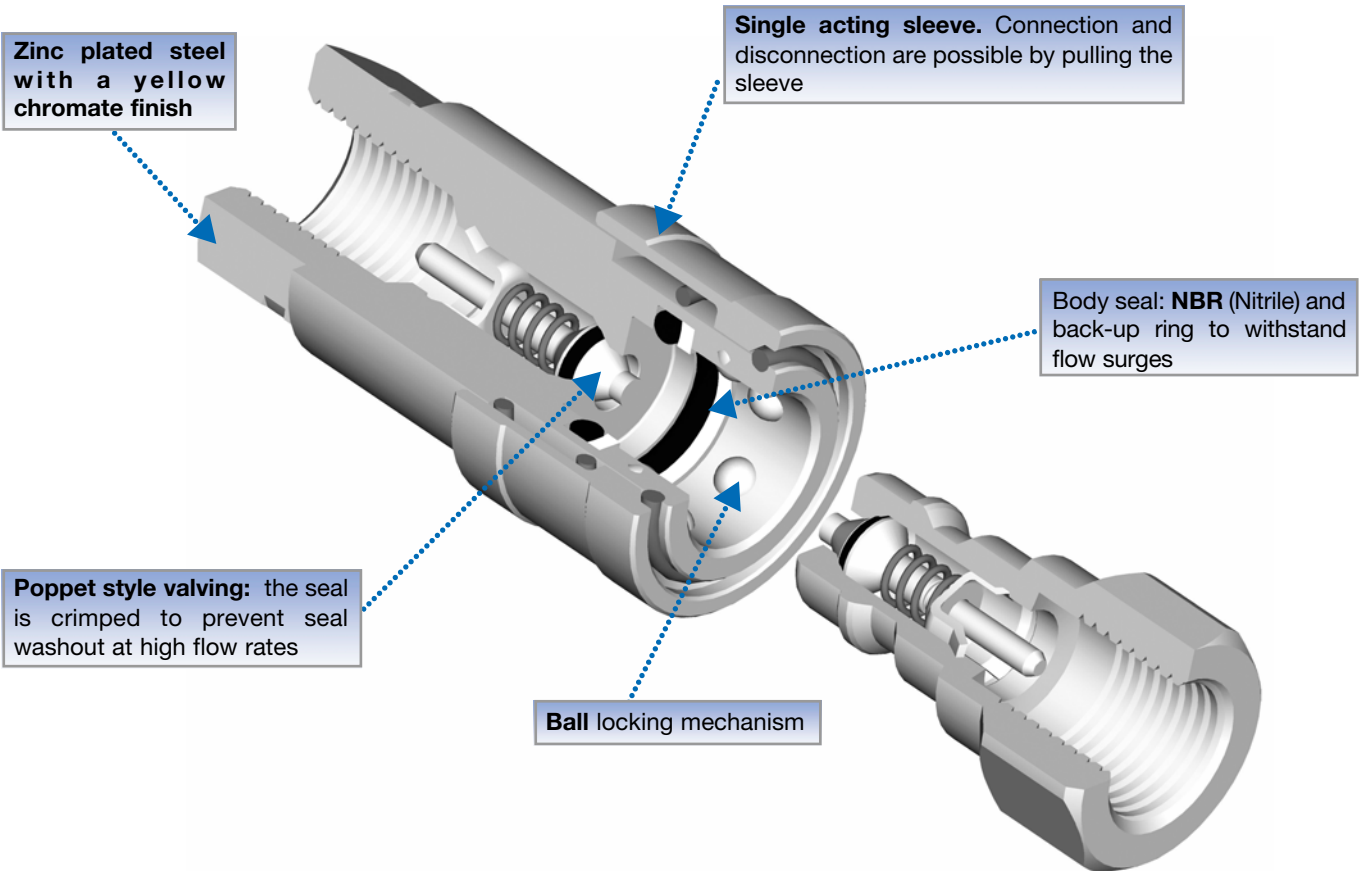
- Meets the requirements of ISO 7241-1-Series A
- Reference couplings in the agricultural market

### Applications

- Used for a wide range of agricultural applications: tractors, accessories...
- Mobile and construction equipment
- In-plant machinery: hydroelectric power stations, hand tools



### Technical features

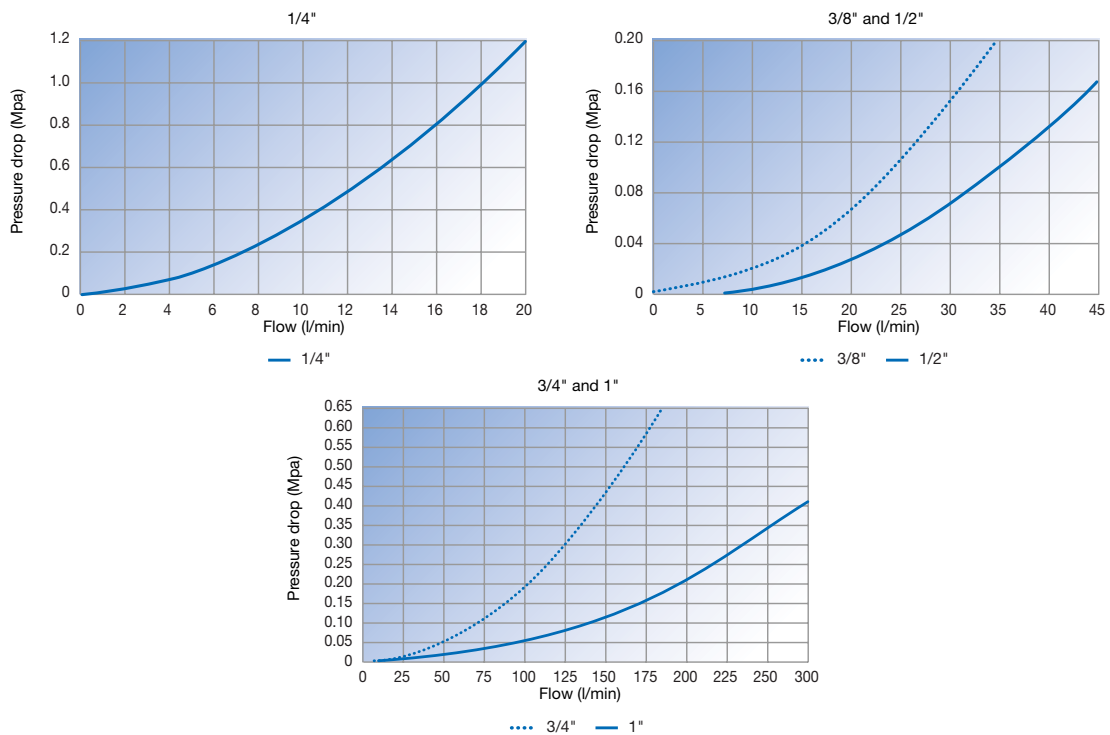


## Technical performance data

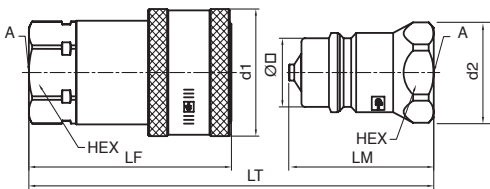
Body size inch	Temperature range	Max. operating pressure Mpa
1/4"	-30°C +110°C	35
3/8"	-30°C +110°C	28
1/2"	-30°C +110°C	25
3/4"	-30°C +110°C	28
1"	-30°C +110°C	28

## Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



## Dimensions and part numbers



Body size inch	Thread A inch	d1 mm	Hex mm	LF mm	d2 mm	LM mm	LT connected mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Female BSPP thread</b>												
1/4"	1/4	25	19	49.0	21	36.1	69.3	11.8	IA-251-4FB	107	IA-252-4FB	33
3/8"	3/8	32	22	55.1	24	41.7	76.2	17.3	IA-371-6FB	153	IA-372-6FB	52
1/2"	1/2	38	27	63.6	30	41.5	83.0	20.5	IA-501-8FB*	256	IA-502-8FB**	78
3/4"	3/4	48	35	85.6	39	64.5	116.2	29.1	IA-751-12FB	621	IA-752-12FB	210
1"	1	56	41	104.4	46	78.7	141.4	34.3	IA-1001-16FB	942	IA-1002-16FB	320

Former part number: \* 4050-29PF  
\*\* 5010-29PF



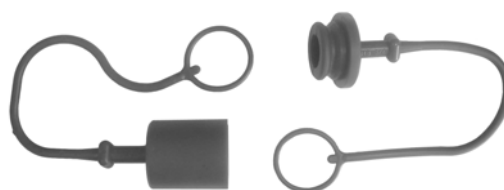
## Option

The 1/2" female coupling is available with a double acting sleeve (Push-Pull).  
Use part number **4250-29PF**.  
The IA-502-8FB male tip should be used with this female coupling.



## Dust caps and plugs

Body size inch	Dust plug part number for female body	Dust cap part number for male tip
1/4"	PIA-251-P	CIA-252-P
3/8"	PIA-371-P	CIA-372-P
1/2"	PIA-501-P	CIA-502-P
3/4"	PIA-751-P	CIA-752-P
1"	PIA-1001-P	CIA-1002-P














**Note :** Standard dust caps and plugs are black. Please consult us for other colours.

## Replacement seals

Body size inch	O-ring NBR (Nitrile)	Back-up ring NBR (Nitrile)
1/4"	JT020112N0674	JT080112N0300
3/8"	JT020115N0674	JT080115N0300
1/2"	JT020117N0552	4128F002C
3/4"	JT020123N0674	JT080123N0300
1"	JT020126N0674	JT080126N0300





			 max							
ISO 7241-1-A, SAE 1036, ISO 5675	Steel	Groups 2 and 3 : 1/2" Group 4 : 3/8" and 1/2"	25 Mpa	-30°C + 110°C	NBR	Manual (Group 2) or "Push-Pull" (Groups 3 and 4)	Ball or poppet	No	Ball locking mechanism	See charts

## Main characteristics

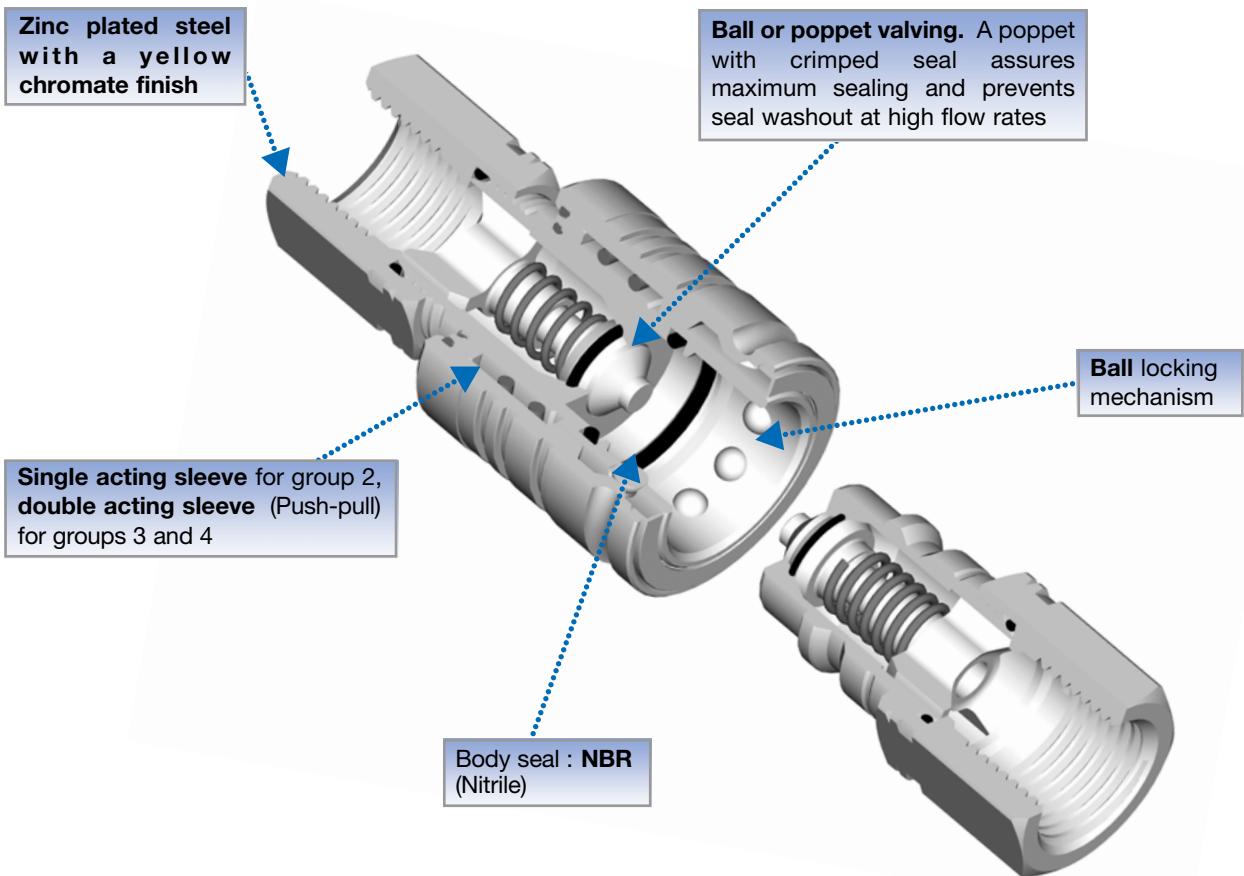
- Meets the requirements of ISO 7241-1 Series A, SAE 1036 and ISO 5675
- Modular construction: broad choice of end configurations

## Applications

- Used for a wide variety of agricultural applications: tractors, accessories...
- Mobile and construction equipment
- Industrial equipment



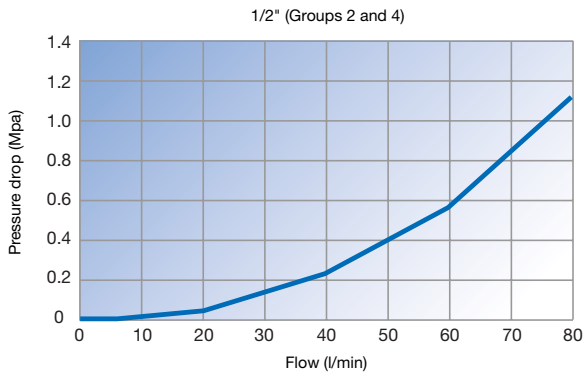
## Technical features



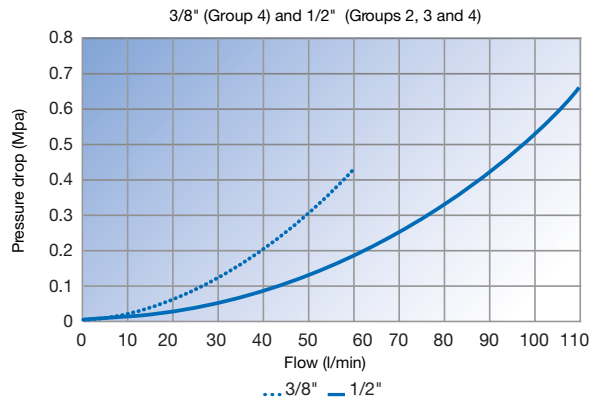
## Pressure drop

Tests with oil viscosity 43 cSt at 38°C.

### Ball valving



### Poppet valving



## Technical performance data

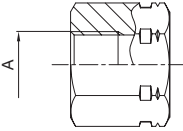
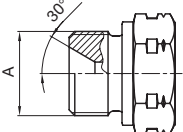
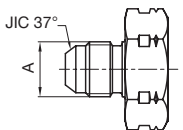
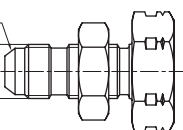
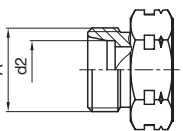
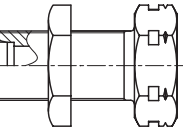
Series	Temperature range	Max. operating pressure Mpa
Group 2	-30°C +110°C	25
Group 3	-30°C +110°C	25
Group 4	-30°C +110°C	25

## Selection of the groups

2000 series	Group 2	Group 3	Group 4
<b>Features</b>			
<b>Sleeve</b>	Single acting	Double acting	Double acting
<b>Spring strength</b>	Light	Medium	Strong
<b>Availability</b>	Female body*	Female body*	Female body and male tip
<b>Functioning</b>	Free mounting: from hose to hose	Free mounting: from hose to hose OR Reverse mounting with the male tip being rigid mounted on the equipment. Connection is easily made using a pushing action on the double acting sleeve.	Free mounting: from hose to hose OR Bulkhead mounting on the outside sleeve allowing a push-to-connect and a pull-to-disconnect operation. An automatic breakaway facility prevents damage to the coupler or hose when accidentally disconnected by vigorous pulling, such as when a towed implement becomes unhitched.

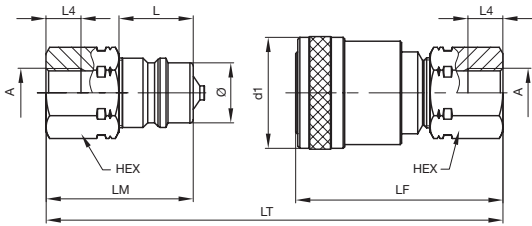
\*To be used with Group 4 male tips.

**End configurations: availability by group**

End configuration				End configuration identification	Group 2		Group 3		Group 4	
					Ball	Poppet	Ball	Poppet	Ball	Poppet
	Body size	Thread A								
	3/8"	3/8 BSPP		G4X3						●
	1/2"	3/8 BSPP 1/2 BSPP 3/4 BSPP 1/2 NPTF M18x1.5 M22x1.5		G4X3 G4X4 G4X6 G0Z4 G8X5 G8X6	●	●●●●		●●	●●	●●●●●●
	Body size	Thread A								
	3/8"	3/8 BSPP		F4B3						●
	1/2"	3/8 BSPP 1/2 BSPP		F4B3 F4B4				●●		●●
	Body size	Thread A								
	1/2"	9/16 - 18 3/4 - 16		X5X3 X5X4						●●
	Body size	Thread A								
	1/2"	9/16 - 18 3/4 - 16 7/8 - 14		T5X3 T5X4 T5X5						●●●
	Body size	Tube d2 Series	Thread A							
				<b>For metric tube</b>						
	3/8"	8L	M14x1.5	D6X2						●
		10L	M16x1.5	D6X3						●●
	1/2"	10S	M18x1.5	D7X3						●
		8L	M14x1.5	D6X2						●●●●
		10L	M16x1.5	D6X3						●●●●
		12L	M18x1.5	D6X4						●●●●
		15L	M22x1.5	D6X5	●			●		●●●●
		18L	M26x1.5	D6X6	●			●		●●●●
1/2"	10S	M18x1.5	D7X3						●●	
	14S	M22x1.5	D7X5						●●	
	16S	M24x1.5	D7X6						●●	
									●●	
	Body size	Tube d2 Series	Thread A							
				<b>For metric tube</b>						
	3/8"	8L	M14x1.5	E6X2						●
		10L	M16x1.5	E6X3						●●
	1/2"	8L	M14x1.5	E6X2						●●●●
		10L	M16x1.5	E6X3						●●●●
		12L	M18x1.5	E6X4						●●●●
		15L	M22x1.5	E6X5	●			●		●●●●
		18L	M26x1.5	E6X6	●			●		●●●●
		10S	M18x1.5	E7X3						●●
12S	M20x1.5	E7X4						●●		
16S	M24x1.5	E7X6						●●		

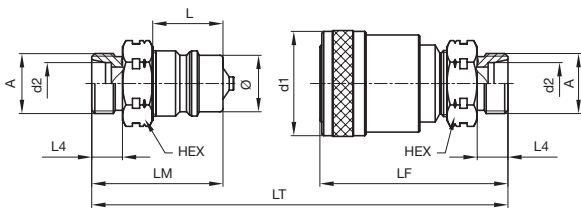
**GROUP 2**

**Female thread – DIN 3852 - Form X**



Body size inch	Thread A	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Female BSPP thread</b>													
1/2"	3/8	38	27	71.0	25.5	50.5	99.5	12.5	20.5	2V54G4X3	245	4V14G4X3	125
	1/2	38	27	73.0	25.5	52.5	104.0	14.5	20.5	2V54G4X4	240	4V14G4X4	110
	3/4	38	32	75.0	25.5	54.5	108.0	16.5	20.5	2V54G4X6	260	4V14G4X6	140
<b>Female NPTF thread</b>													
1/2"	1/2-14	38	27	72.0	25.5	51.5	103.5	15.3	20.5	2V54G0Z4	236	4V14G0Z4	112
<b>Female metric thread</b>													
1/2"	M22x1.5	38	27	72.5	25.5	52.0	102.5	15.5	20.5	2V54G8X6	229	4V14G8X6	105

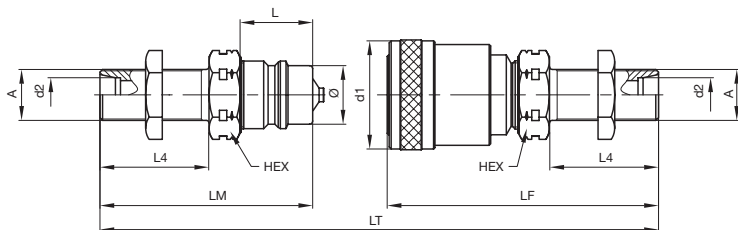
**24° cone - DIN 2353**



Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																
1/2"	L*	12	10	M18x1.5	38	27	68	25.5	47.5	93.5	11	20.5	2V54D6X4	214	4V14D6X4	87
	L*	15	12	M22x1.5	38	27	68	25.5	47.5	93.5	12	20.5	2V54D6X5	214	4V14D6X5	89

\* Light series.

**24° cone - DIN 2353 - Bulkhead**



Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																
1/2"	L*	12	10	M18x1.5	38	27	95	25.5	74.5	147.5	38	20.5	2V54E6X4	240	4V14E6X4	116

\* Light series.

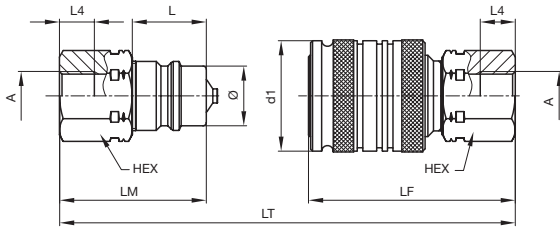
**Note :** Select "V" or "O" as second digit in part number for valving type identification.

V: poppet type e.g. 2V54G4X4

O: ball type e.g. 2O54G4X4 and check availability page 9.

**GROUP 3**

**Female thread – DIN 3852 - Form X**



Body size inch	Thread A	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
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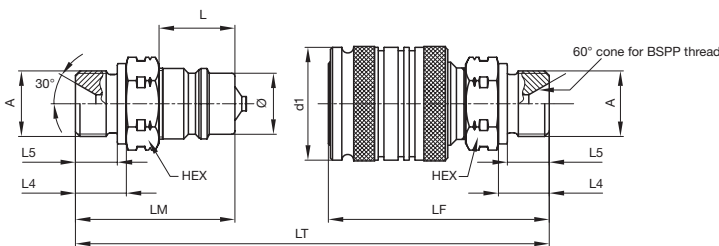
**Female BSPP thread**

1/2"	3/8	38	27	71.0	25.5	50.5	99.5	12.5	20.5	3V54G4X3	297	4V14G4X3	125
	1/2	38	27	73.0	25.5	52.5	104.0	14.5	20.5	3V54G4X4	275	4V14G4X4	110

**Female metric thread**

1/2"	M22X1.5	38	27	72.5	25.5	52.0	102.5	15.5	20.5	3V54G8X6	263	4V14G8X6	105
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**Male thread – DIN 3852 - Form B**

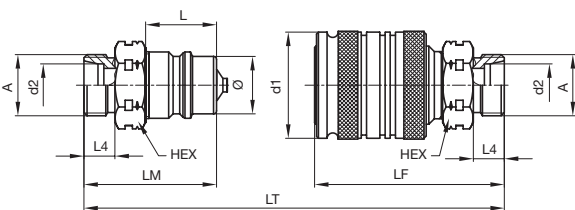


Body size inch	Thread A inch	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	L5 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
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**Male BSPP thread**

1/2"	3/8	38	27	71.6	25.5	51.1	100.7	14.5	12	20.5	3V54F4B3	277	4V14F4B3	114
	1/2	38	27	74.0	25.5	53.5	105.5	17.0	14	20.5	3V54F4B4	263	4V14F4B4	102

**24° cone - DIN 2353**



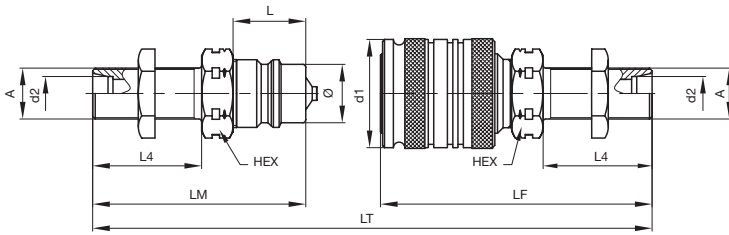
Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
-------------------	--------	----------------	----------	----------------	----------	-----------	----------	---------	----------	--------------------	----------	---------	----------------------------	---------------------	-------------------------	---------------------

**Male metric thread**

1/2"	L*	12	10	M18x1.5	38	27	68	25.5	47.5	93.5	11	20.5	3V54D6X4	249	4V14D6X4	87
	L*	15	12	M22x1.5	38	27	68	25.5	47.5	93.5	12	20.5	3V54D6X5	249	4V14D6X5	89

\* Light series

24° cone - DIN 2353 - Bulkhead

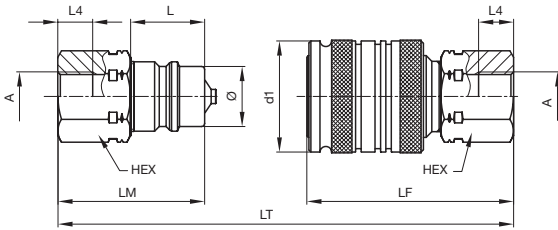


Body size inch	Series	Tube O/D d2	DN mm	Thread mm	A mm	d1 mm	Hex mm	LF mm	L mm	LM mm	LT mm	connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																		
1/2"	L*	12	10	M18x1.5	38	27	83	25.5	62.5	123.5	26	20.5	3V54E6X4	276	4V14E6X4	116		
	L*	15	12	M22x1.5	38	27	83	25.5	62.5	123.5	27	20.5	3V54E6X5	300	4V14E6X5	140		

\* Light series

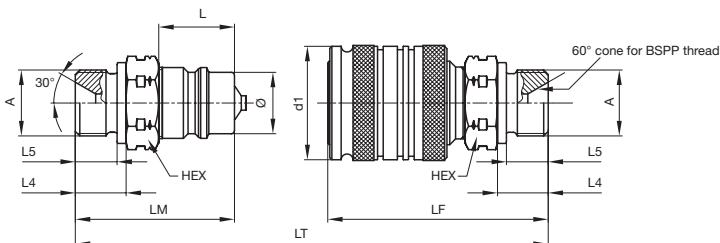
**GROUP 4**

**Female thread – DIN 3852 Form X**



Body size inch	Thread A	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Female BSPP thread</b>													
3/8"	3/8	30	24	63.5	19.0	46.0	92.0	12.5	17.3	4V53G4X3	165	4V13G4X3	80
1/2"	3/8	38	27	71.0	25.5	50.5	99.5	12.5	20.5	4V54G4X3	283	4V14G4X3	125
	1/2	38	27	73.0	25.5	52.5	104.0	14.5	20.5	4V54G4X4	275	4V14G4X4	110
	3/4	38	30	75.0	25.5	54.5	108.0	16.5	20.5	4V54G4X6	297	4V14G4X6	140
<b>Female metric thread</b>													
1/2"	M18x1.5	38	27	69.5	25.5	49.0	96.5	12.5	20.5	4V54G8X5	273	4V14G8X5	113
	M22x1.5	38	27	72.5	25.5	52.0	102.5	15.5	20.5	4V54G8X6	265	4V14G8X6	105
<b>Female NPTF thread</b>													
1/2"	1/2-14	38	27	72.0	25.5	51.5	102.0	15.3	20.5	4V54G0Z4	273	4V14G0Z4	112

**Male thread – DIN 3852 Form B**



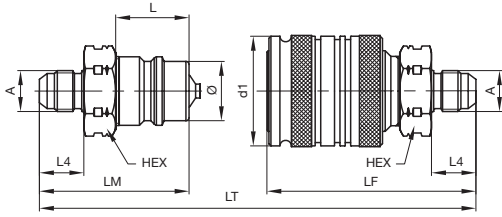
Body size inch	Thread A inch	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	L5 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male BSPP thread</b>														
3/8"	3/8	30	22	65.8	19.0	48.0	96.0	14.5	12	17.3	4V53F4B3	155	4V13F4B3	69
1/2"	3/8	38	27	71.6	25.5	51.1	104.5	14.5	12	20.5	4V54F4B3	277	4V14F4B3	114
	1/2	38	27	74.0	25.5	53.5	105.5	17.0	14	20.5	4V54F4B4	265	4V14F4B4	102

**Note :** Select "V" or "O" as second digit in part number for valving type identification.

V: poppet type e.g. 4V54G4X4

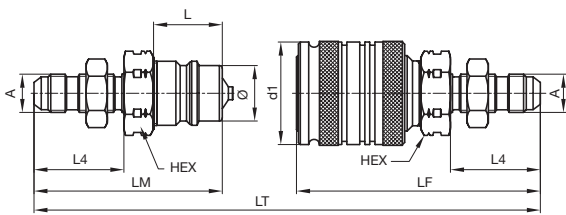
O: ball type e.g. 4O54G4X4 and check availability page 9.

JIC 37° – SAE J514



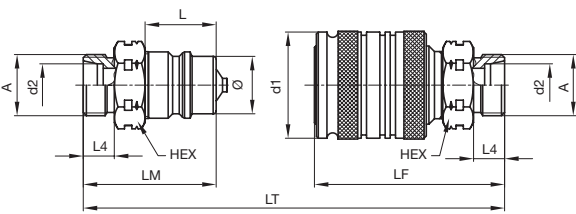
Body size inch	Tube O/D d2	Thread A inch	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male UNF thread</b>														
1/2"	10	9/16-18	38	27	71	25.5	50.5	99.5	14.0	20.5	4V54X5X3	279	4V14X5X3	120
	12	3/4-16	38	27	74	25.5	53.2	105.5	16.7	20.5	4V54X5X4	259	4V14X5X4	95

JIC 37° - SAE J514 - Bulkhead



Body size inch	Tube O/D d2	Thread A inch	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male UNF thread</b>														
1/2"	10	9/16-18	38	27	90.2	25.5	69.8	138.0	33.0	20.5	4V54T5X3	275	4V14T5X3	114
	12	3/4-16	38	27	94.6	25.5	74.1	146.7	37.6	20.5	4V54T5X4	300	4V14T5X4	137
	16	7/8-14	38	27	98.0	25.5	77.5	153.5	41.0	20.5	4V54T5X5	329	4V14T5X5	172

24° cone - DIN 2353



Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	L mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																
3/8"	L*	8	6	M14x1.5	30	22	61	19.0	43.4	86.8	10	17.3	4V53D6X2	142	4V13D6X2	56
	L*	10	8	M16x1.5	30	22	62	19.0	44.4	89.0	11	17.3	4V53D6X3	143	4V13D6X3	58
	S**	10	7	M18x1.5	30	22	63	19.0	45.5	91.5	12	17.3	4V53D7X3	150	4V13D7X3	65
1/2"	L*	8	6	M14x1.5	38	27	67	25.5	46.5	91.5	10	20.5	4V54D6X2	244	4V14D6X2	84
	L*	10	8	M16x1.5	38	27	68	25.5	47.5	93.5	11	20.5	4V54D6X3	247	4V14D6X3	86
	L*	12	10	M18x1.5	38	27	68	25.5	47.5	93.5	11	20.5	4V54D6X4	245	4V14D6X4	87
	L*	15	12	M22x1.5	38	27	68	25.5	47.5	93.5	12	20.5	4V54D6X5	250	4V14D6X5	89
	L*	18	15	M26x1.5	38	30	71	25.5	50.5	99.5	12	20.5	4V54D6X6	276	4V14D6X6	116
	S**	10	7	M18x1.5	38	27	69	25.5	48.5	96.5	12	20.5	4V54D7X3	252	4V14D7X3	92
	S**	14	10	M22x1.5	38	30	73	25.5	52.5	103.5	14	20.5	4V54D7X5	275	4V14D7X5	115
	S**	16	12	M24x1.5	38	27	71	25.5	50.5	99.5	14	20.5	4V54D7X6	261	4V14D7X6	101

\* Light series.

\*\* Heavy series.

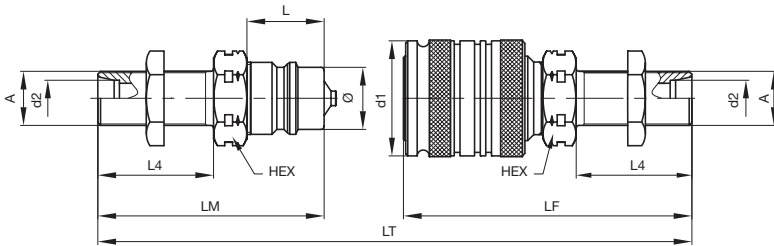
**Note :** Select "V" or "O" as second digit in part number for valving type identification.

V: poppet type e.g. 4V54G4X4

O: ball type e.g. 4O54G4X4 and check availability page 9.



24° cone - DIN 2353 - Bulkhead



Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	L mm	LM mm	LT mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																	
3/8"	L*	8	6	M14x1.5	30	22	76	19.0	58.5	117.5		25	17.3	4V53E6X2	163	4V13E6X2	75
	L*	10	8	M16x1.5	30	22	77	19.0	59.5	119.5		26	17.3	4V53E6X3	170	4V13E6X3	84
1/2"	L*	8	6	M14x1.5	38	27	83	25.5	62.5	123.5		26	20.5	4V54E6X2	266	4V14E6X2	105
	L*	10	8	M16x1.5	38	27	83	25.5	62.5	123.5		26	20.5	4V54E6X3	273	4V14E6X3	111
	L*	12	10	M18x1.5	38	27	83	25.5	62.5	123.5		26	20.5	4V54E6X4	277	4V14E6X4	116
	L*	15	12	M22x1.5	38	27	83	25.5	62.5	123.5		27	20.5	4V54E6X5	300	4V14E6X5	140
	L*	18	15	M26x1.5	38	27	84	25.5	63.5	125.5		27	20.5	4V54E6X6	340	4V14E6X6	177
	S**	10	7	M18x1.5	38	27	84	25.5	63.5	125.5		27	20.5	4V54E7X3	304	4V14E7X3	140
	S**	12	8	M20x1.5	38	27	87	25.5	66.5	131.5		27	20.5	4V54E7X4	312	4V14E7X4	150
S**	16	12	M24x1.5	38	27	85	25.5	64.5	127.5		29	20.5	4V54E7X6	320	4V14E7X6	159	

\* Light series.  
\*\* Heavy series.

**Note :** Select "V" or "O" as second digit in part number for valving type identification.  
V: poppet type e.g. 4V54G4X4  
O: ball type e.g. 4O54G4X4 and check availability page 9.

Dust caps and plugs

Plastic



Rubber



Steel



Body size inch	Dust plug part number for female body	Dust cap part number for male tip
<b>Plastic</b>		
3/8"	5025-3PR	5029-3PR
1/2"	5025-4P*	5029-4P*
<b>Rubber</b>		
1/2"	5205-4M	5209-4M
<b>Steel</b>		
1/2"	5005-4	5009-4

\* Colour code  
B = blue      G = green      R = red  
O = orange    Y = yellow      BL = black

**Automatic dust cap for female body**

**Plastic**

Body size inch	Cap part number for female body
1/2"	DFE-501-P



**Note :** Standard dust cap is black. Please consult us for other colours.

**Permanent protective cap for female body**

**Rubber**

Body size inch	Dust cap part number for female body
1/2"	DCP4-SD



High strength rubber: resistant to deformation, exposure to elements, UV.

Two combined functions:

- Protection
- Oil spillage collection.












The modular concept accommodates multiple coupler configurations. Please consult us.

**Note :** DCP series single dust caps (page 29) are also suitable for the 2000 series (body size 1/2").

**Replacement body seal**

Body size inch	Part number NBR (Nitrile)
3/8"	JT060044N0552
1/2"	JT020117N0552



			 max							
Inter-changeable with similar models	Steel	3/8", 1/2", 3/4" & 1"	45 Mpa	-30°C + 110°C	NBR	Screw-to connect	Poppet	Yes up to 5 Mpa	Screw type	BSPP, metric

### Main characteristics

- High pressure coupler up to **45 Mpa**
- Interchangeable with similar products
- Connection with pressure up to 5 Mpa is possible

### Applications

- Agricultural and mobile equipment
- Rock hammers
- Forestry equipment
- Snow groomers



### Technical features

**Red silicon seal:**  
 - Visual check for correct connection  
 - Prevents accidental disconnection  
 - Prevents external contamination entering the system

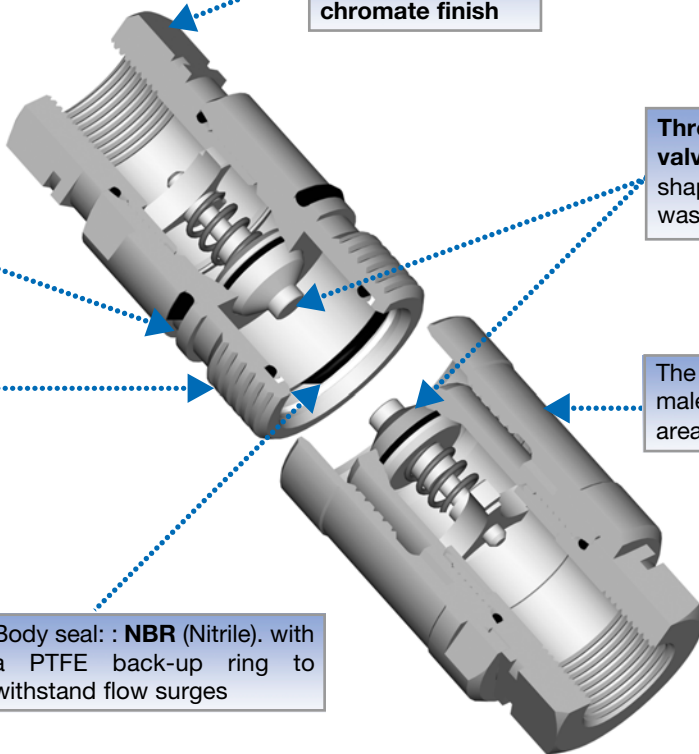
Zinc plated steel with a yellow chromate finish

**Three-part poppet style valving** with a moulded shaped seal to prevent seal washout at high flow rates

Locking: **screw type.** Self-locking thread prevents sleeve from being loosened by vibration

The **sleeve** is mounted on the male tip to protect the sealing area

Body seal: : **NBR** (Nitrile). with a PTFE back-up ring to withstand flow surges



**Be careful ! On the QHPA quick couplings, the sleeve is mounted on the male tip and not on the female body !**

**Technical performance data**

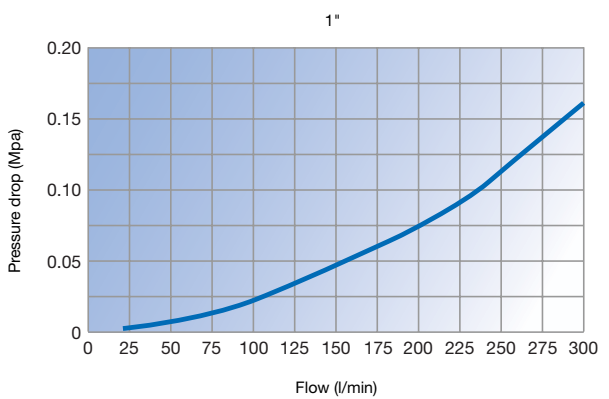
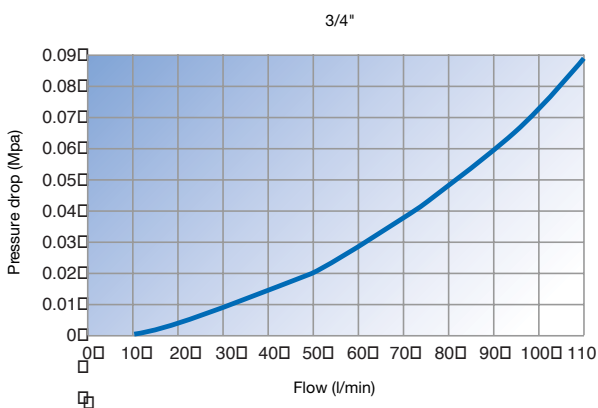
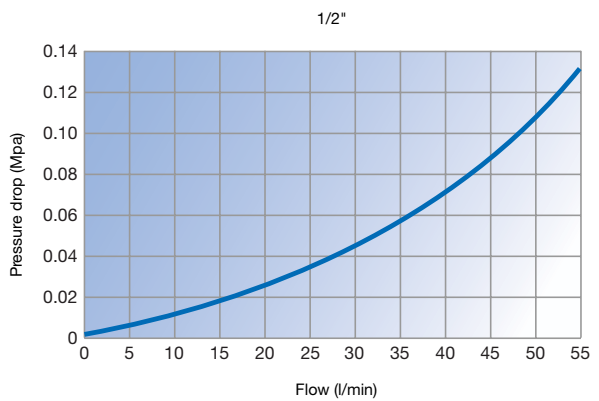
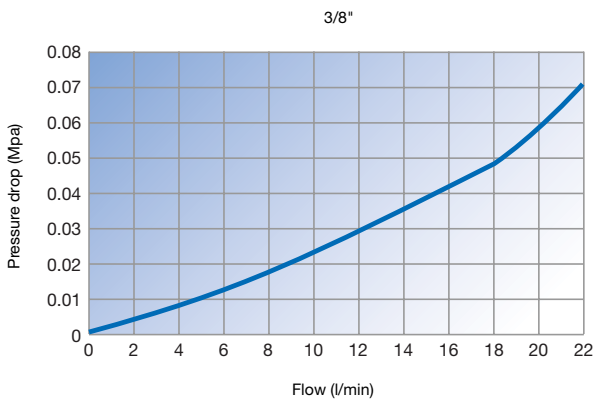
Body size inch	Temperature range	Max. operating pressure Mpa
2 3/8"	-30°C +110°C	45.0
3 1/2"	-30°C +110°C	40.0
6 3/4"	-30°C +110°C	31.5
8 1"	-30°C +110°C	31.5

Be Careful:

The maximum operating pressures for couplings with metric adaptors light series (DIN 2353) are 31.5 Mpa up to 18 L and 16 Mpa from 22 L.

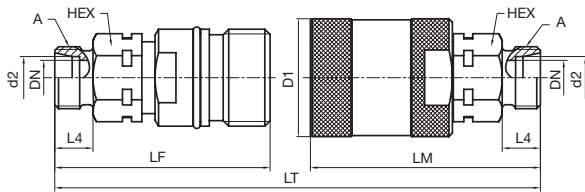
**Pressure drop**

Test with oil, viscosity 43 cSt at 38°C.



## Dimensions and part numbers

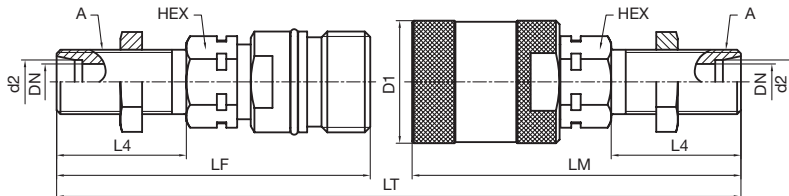
### 24° cone - DIN 2353



Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	LM mm	LT connected mm	L4 mm	Part number male tip	Weight gr./piece	Part number female body	Weight gr./piece	
<b>Male metric thread</b>															
2	3/8"	L*	8	6	M14x1.5	34	22	53.6	58.0	86.8	10	QHPA13-D6X2	190	QHPA53-D6X2	132
		L*	10	8	M16x1.5	34	22	54.6	59.0	88.8	11	QHPA13-D6X3	185	QHPA53-D6X3	131
		S**	10	6	M18x1.5	34	22	55.6	60.0	90.8	12	QHPA13-D7X3A	192	QHPA53-D7X3A	137
		S**	12	8	M20x1.5	34	22	55.6	60.0	90.8	12	QHPA13-D7X4A	194	QHPA53-D7X4A	139
3	1/2"	L*	12	10	M18x1.5	42	27	62.2	71.4	103.3	11	QHPA14-D6X4	325	QHPA54-D6X4	250
		L*	15	12	M22x1.5	42	27	63.2	72.4	105.3	12	QHPA14-D6X5	333	QHPA54-D6X5	255
		S**	14	10	M22x1.5	42	27	65.1	74.4	109.3	14	QHPA14-D7X5A	346	QHPA54-D7X5A	266
		S**	16	12	M24x1.5	42	27	65.1	74.4	109.3	14	QHPA14-D7X6A	343	QHPA54-D7X6A	264
6	3/4"	L*	18	16	M26x1.5	55	41	91.0	89.1	144.3	12	QHPA16-D6X6	775	QHPA56-D6X6	664
		L*	22	20	M30x2	55	41	93.0	91.1	148.3	14	QHPA16-D6X7	774	QHPA56-D6X7	661
		S**	20	16	M30x2	55	41	95.0	93.2	152.4	16	QHPA16-D7X7A	794	QHPA56-D7X7A	680
		S**	25	20	M36x2	55	41	97.0	95.2	156.4	18	QHPA16-D7X8A	800	QHPA56-D7X8A	695
8	1"	S**	30	25	M42x2	80	55	138.9	118.9	205.8	20	QHPA18-D7X9A	2170	QHPA58-D7X9A	2200
		S**	38	32	M52x2	80	55	140.9	120.9	209.8	22	QHPA18-D7X10A	2150	QHPA58-D7X10A	2202

\* Light series.  
\*\* Heavy series.

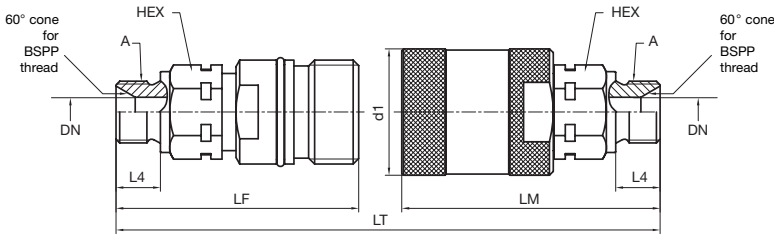
### 24° cone - DIN 2353 - Bulkhead



Body size inch	Series	Tube O/D d2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	LM mm	LT connected mm	L4 mm	Part number male tip	Weight gr./piece	Part number female body	Weight gr./piece	
<b>Male metric thread</b>															
2	3/8"	L*	8	6	M14x1.5	34	22	69.6	74.0	118.8	25	QHPA13-E6X2	210	QHPA53-E6X2	155
		L*	10	8	M16x1.5	34	22	69.6	74.0	118.8	26	QHPA13-E6X3	214	QHPA53-E6X3	155
		S**	10	6	M18x1.5	34	22	71.6	75.0	121.7	27	QHPA13-E7X3A	230	QHPA53-E7X3A	175
		S**	12	8	M20x1.5	34	22	71.6	75.0	121.7	27	QHPA13-E7X4A	240	QHPA53-E7X4A	185
3	1/2"	L*	12	10	M18x1.5	42	27	76.1	85.4	131.3	25	QHPA14-E6X4	280	QHPA54-E6X4	280
		L*	15	12	M22x1.5	42	27	78.1	87.4	135.3	27	QHPA14-E6X5	385	QHPA54-E6X5	308
		S**	16	12	M24x1.5	42	27	78.1	87.4	135.3	27	QHPA14-E7X6A	397	QHPA54-E7X6A	321
6	3/4"	L*	18	16	M26x1.5	55	41	113.0	111.1	188.3	34	QHPA16-E6X6	865	QHPA56-E6X6	755
		S**	20	16	M30x2	55	41	115.0	113.1	192.3	36	QHPA16-E7X7A	802	QHPA56-E7X7A	801
		S**	25	20	M36x2	55	41	117.0	115.1	196.3	38	QHPA16-E7X8A	966	QHPA56-E7X8A	850
8	1"	S**	30	25	M42x2	80	55	158.0	138.0	244.0	40	QHPA18-E7X9A	2341	QHPA58-E7X9A	2377
		S**	38	32	M52x2	80	55	158.0	138.0	244.0	40	QHPA18-E7X10A	2350	QHPA58-E7X10A	2483

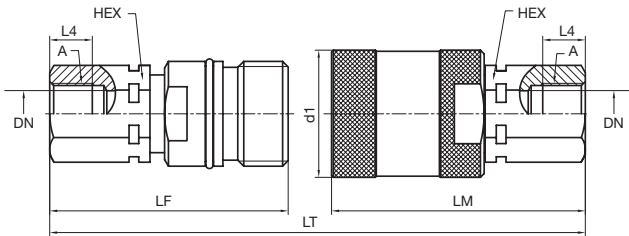
\* Light series.  
\*\* Heavy series.

**Male thread - DIN 3852 - Form A**



Body size inch	DN mm	Thread A inch	d1 mm	Hex mm	LF mm	LM mm	LT connected mm	L4 mm	Part number male tip	Weight gr./piece	Part number female body	Weight gr./piece	
<b>Male BSPP thread</b>													
2	3/8"	8	3/8	34	22	58.1	62.5	95.8	12	QHPA13-F4A3	197	QHPA53-F4A3	141
3	1/2"	12	1/2	42	27	68.3	77.5	115.5	14	QHPA14-F4A4	350	QHPA54-F4A4	271

**Female BSPP thread**



Body size inch	DN mm	Thread A inch	d1 mm	Hex mm	LF mm	LM mm	LT connected mm	L4 mm	Part number male tip	Weight gr./piece	Part number female body	Weight gr./piece	
<b>Female BSPP thread</b>													
2	3/8"	8	3/8	34	22	53.1	57.5	85.8	11.4	QHPA13-G4X3	189	QHPA53-G4X3	134
3	1/2"	12	1/2	42	27	61.2	70.4	101.3	15.0	QHPA14-G4X4	335	QHPA54-G4X4	260
6	3/4"	16	3/4	55	41	87.0	85.2	136.4	16.5	QHPA16-G4X6	779	QHPA56-G4X6	665
		20	1	55	41	95.4	93.6	153.2	19.0	QHPA16-G4X8	727	QHPA56-G4X8	615

**Dust caps and plugs**

**Polyethylene**

Body size inch	Dust plug part number for male tip	Dust cap part number for female body
2	3/8"	QHPA53-DP / QHPA13-DC
3	1/2"	QHPA54-DP / QHPA14-DC
6	3/4"	QHPA56-DP / QHPA16-DC
8	1"	QHPA58-DP / QHPA18-DC



**Replacement seals**

Body size inch	O-ring NBR (Nitrile)	Back-up ring PTFE	External seal silicone
3/8"	JT020017N0674	QHPA23-6	JT060022S0604
1/2"	JT090231N0674	QHPA24-6	JT060056S0604
3/4"	JT020126N0674	JT080126N0300	JT020223S0604
1"	JT020138N0674	QHPA28-6	JT020230S0604



ISO 7241-1-A and ISO 5675	Steel	1/2"	max 25 Mpa	-30°C + 110°C	NBR	"Push-Pull"	Poppet	Yes in the male tip up to 25 Mpa	Ball locking mechanism	Metric, UNF

### Main characteristics

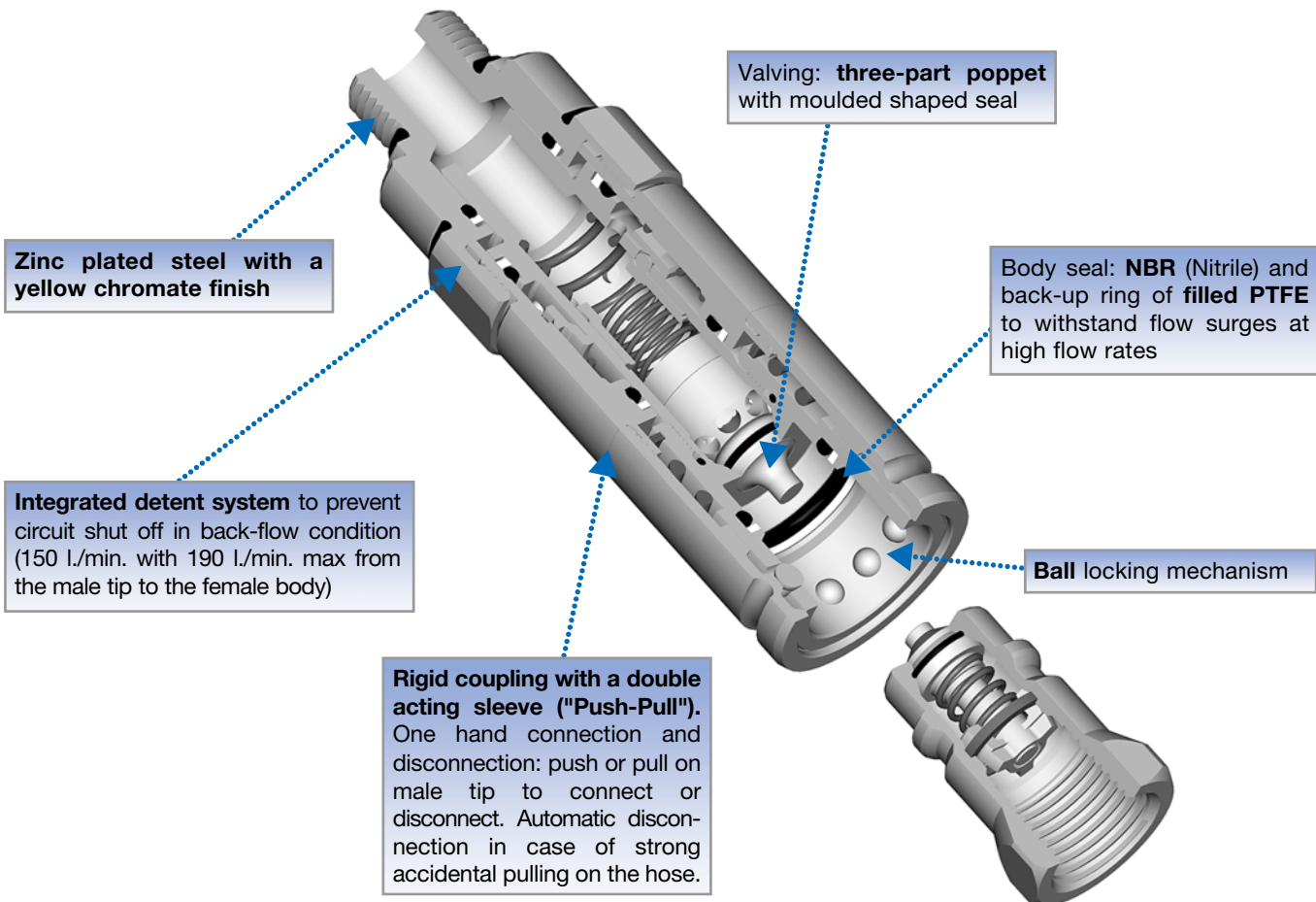
- Rigid coupler which meets the requirements of **ISO 7241-1 Series A** and **ISO 5675**
- This coupler is a reference for the most important manufacturers of agricultural equipment
- Must be used with a male tip which meets the requirements of **ISO 7241-1-A**
- Optional: connect under max. operating pressure on the female side (See 9454 Series or RMD Series)

### Applications

- Medium and high power tractors: direct mounting on the directional valve or rigid piping



### Technical features



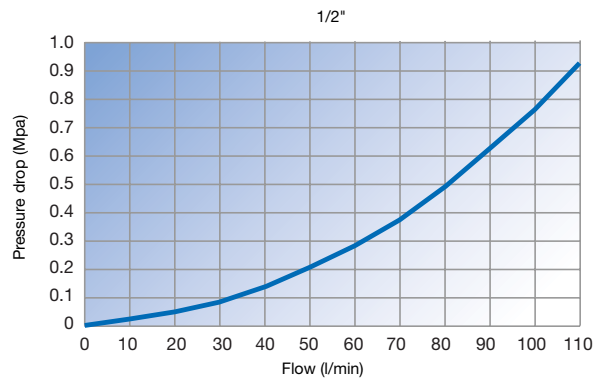
Technical performance data

Body size inch	Temperature range	Max. operating pressure Mpa	Min. burst pressure* Mpa
1/2"	-30°C + 110°C	25	129

\*According to ISO 5675

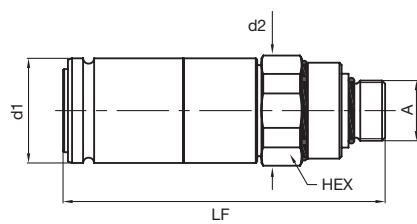
Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



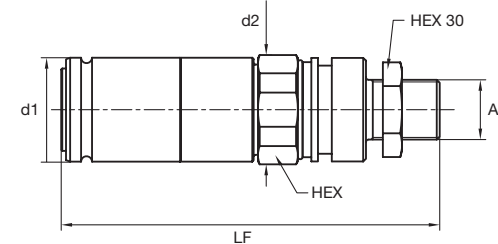
Dimensions and part numbers

Male thread to ISO 6149-2



Body size inch	Thread A mm	d1 mm	d2 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Male metric thread</b>							
1/2"	M22x1.5	38	40	38	117	9404-F8H6S2	586

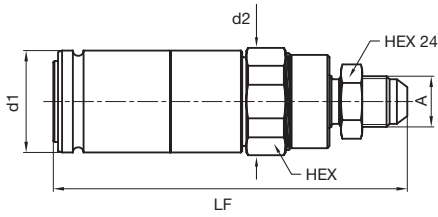
24° cone bulkhead - DIN 2353 15L-ISO 8434



Body size inch	Tube Size	Thread A mm	d1 mm	d2 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Male metric thread</b>								
1/2"	15L	M22x1.5	38	40	38	138.6	9404-E6Z5S2	701



**24° cone bulkhead JIC 37° - SAE J514 ISO 8434 - 2**



Body size inch	Thread A inch	d1 mm	d2 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Male UNF thread</b>							
1/2"	3/4-16	38	40	38	132	9404-T5X4S2	615

**Replacement seals**

Body size inch	O-ring part number NBR (Nitrile)	Back-up ring part number filled PTFE
1/2"	JT020117N0552	4128F002C



			 max 25 Mpa	 -30°C + 110°C				 Yes, male and female side up to 25 Mpa		 Metric, UNF, NPTF
ISO 7241-1-A and ISO 5675	Steel	1/2"	25 Mpa	-30°C + 110°C	NBR	"Push-Pull"	Poppet	Yes, male and female side up to 25 Mpa	Ball locking mechanism	Metric, UNF, NPTF

## Main characteristics

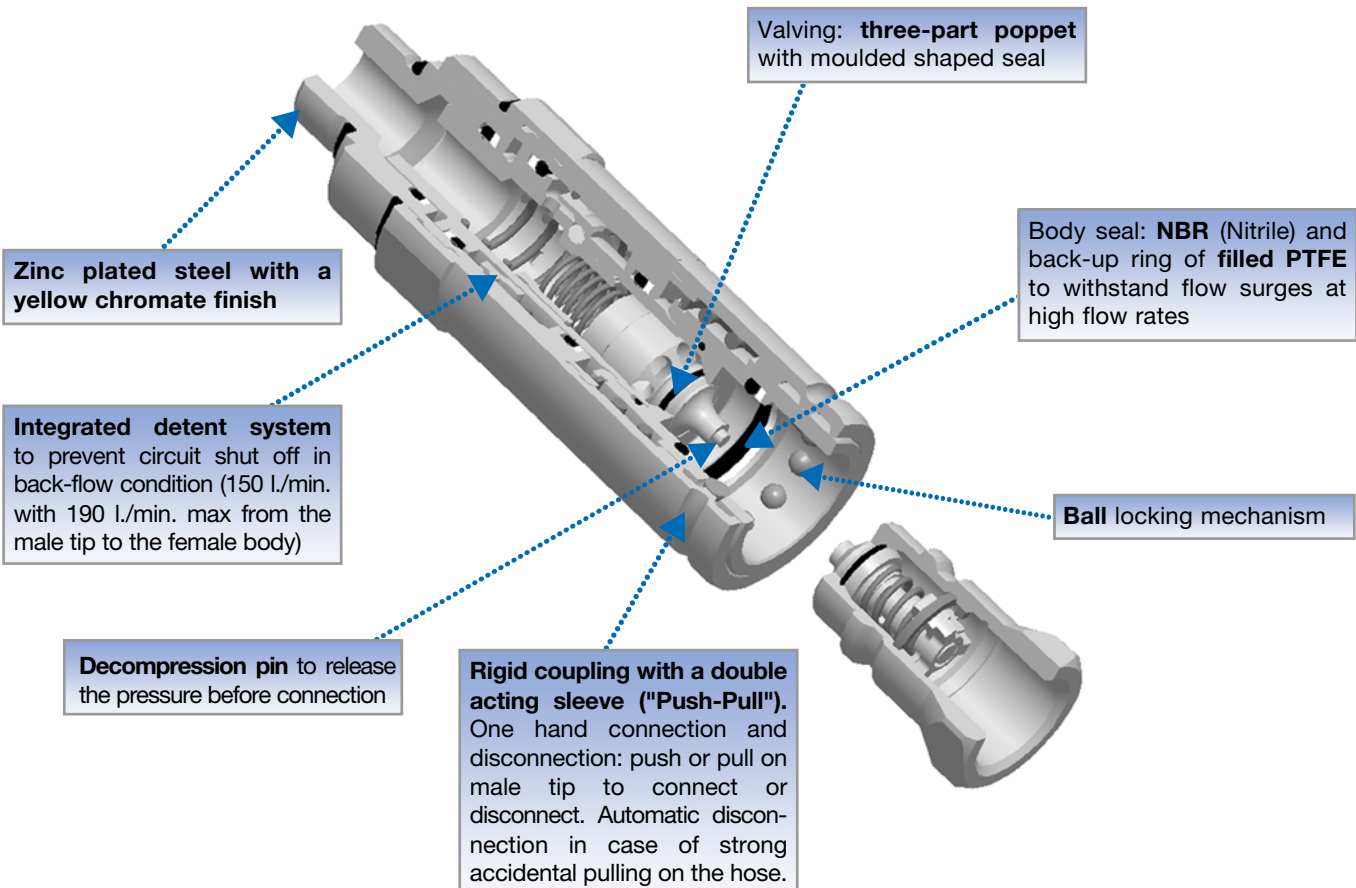
- Rigid coupler which meets the requirements of **ISO 7241-1 Series A** and **ISO 5675**
- This coupler is a reference for the most important manufacturers of agricultural equipment
- Must be used with a male tip which meets the requirements of ISO 7241-1-A
- **Connectable under maximum rated pressure (25 Mpa) in both male and female side**

## Applications

- Medium and high power tractors: direct mounting on the directional valve or rigid piping



## Technical features



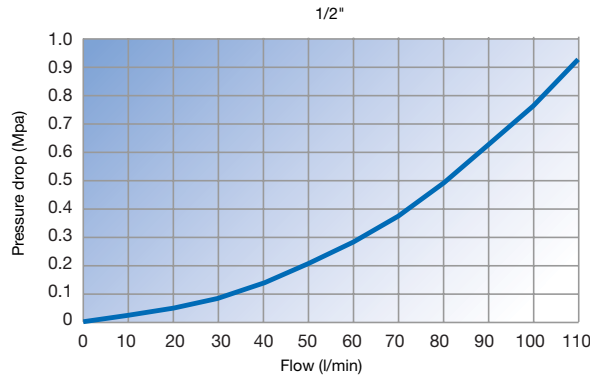
## Technical performance data

Body size inch	Temperature range	Max. operating pressure Mpa	Min. burst pressure* Mpa
1/2"	-30°C + 110°C	25	129

\*According to ISO 5675

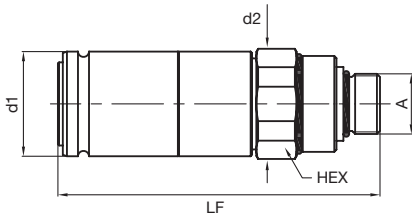
## Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



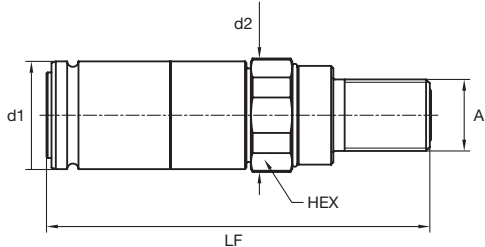
## Dimensions and part numbers

### Male thread to ISO 6149-2



Body size inch	Thread A mm	d1 mm	d2 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Male metric thread</b>							
1/2"	M22x1.5	38	40	38	117	9454-F8H6S2	586

### ISO 8434-3 / SAEJ1453



Body size inch	Thread A inch	d1 mm	d2 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Male UNF thread</b>							
1/2"	1/2-14	38	40	38	135	9454-U5X9S2	640

For accessories and dust caps, see page 28

## Replacement seals

Body size inch	O-ring part number NBR (Nitrile)	Back-up ring part number filled PTFE
1/2"	JT020117N0552	4128F002C



## RMD Series

### Main characteristics

- Rigid coupler which meets the requirements of **ISO 7241-1 Series A** and **ISO 5675**
- Drain clean oil to tank
- Reduced spillage during connection and disconnection
- Flow without checking off up to 225 l/min
- Must be used with a male tip which meets the requirements of ISO 7241-1-A
- Connect under max. operating pressure on the female and male side
- Optional: thermal piston capability up to 2.2:1

### Applications

- Medium and high power tractors: direct mounting on the directional valve or rigid piping



## DAR Series

### Main characteristics

- Rigid coupler which meets the requirements of **ISO 7241-1 Series A** and **ISO 5675**
- Drain clean oil to tank
- Reduced spillage during connection and disconnection
- Flow without checking off up to 225 l/min
- Must be used with a male tip which meets the requirements of ISO 7241-1-A
- Connect under max. operating pressure on the female and male side
- Low connect and disconnect forces, also under pressure
- Allows the connection with a higher pressure in the implement up to 500 bar
- Reduced spray during disconnection, also with a raised implement

### Applications

- Medium and high power tractors: direct mounting on the directional valve or rigid piping



Please contact your Parker sales engineer.

## DAC Series (cartridges)

### Main characteristics

- Rigid coupler which meets the requirements of **ISO 7241-1 Series A** and **ISO 5675**
- To integrate in a casting or a block
- Rated flow up to 115 l/min
- Flow without checking off up to 225 l/min
- Allows the connection with a higher pressure in the male tip up to 500 bar
- Must be used with a male tip which meets the requirements of **ISO 7241-1-A**
- Connect under max. operating pressure on the female side
- Can be operated by a lever



### Applications

- Medium and high power tractors: direct mounting on the directional valve or rigid piping

## Power Beyond Rigid Couplings

### Main characteristics

- Rigid coupler design
- Available in 1/4", 3/8", 1/2" and 3/4"
- Brake away capabilities
- Pressure line (3/4") connectable under pressure up to 50 bar

### Applications

- Medium and high power tractors: direct mounting on the directional valve or rigid piping
- Connection for pressure, return, load sensing and case drain lines



Please contact your Parker sales engineer.

	Polyamide	1/2"	max Not applicable	-20°C + 100°C	HNBR	Manual	Not applicable	Not applicable	Not applicable	Not applicable

### Main characteristics

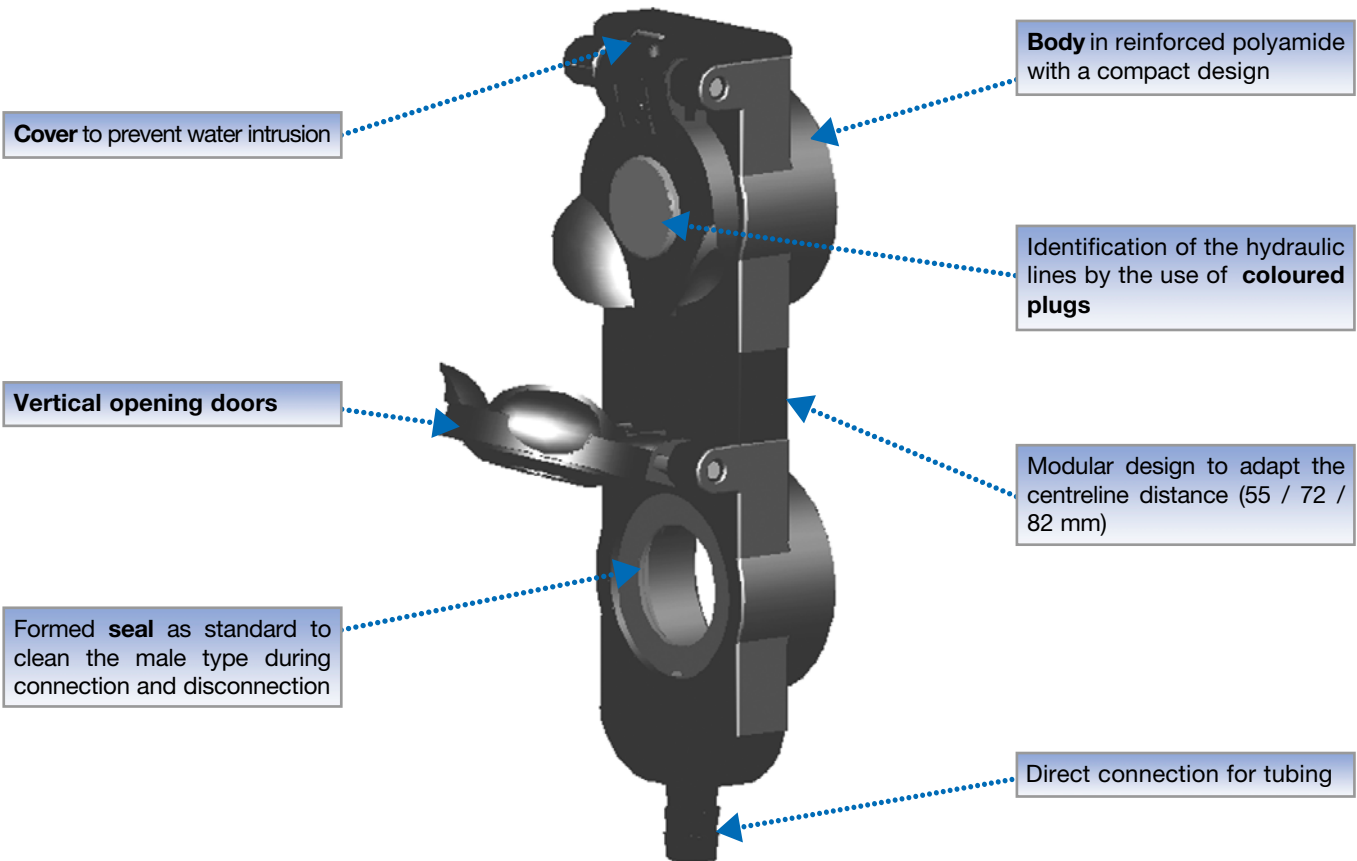
- Dust cover for 1/2" coupling according to ISO 7241-1 Series A with oil collector

### Applications

- Protection of the female coupling against the intrusion of dust in the circuit
- Collecting of the connection/disconnection spillage oil



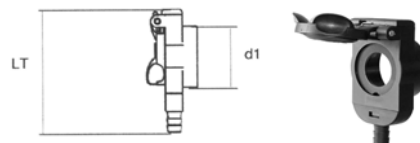
### Technical features



## Dimensions and part numbers

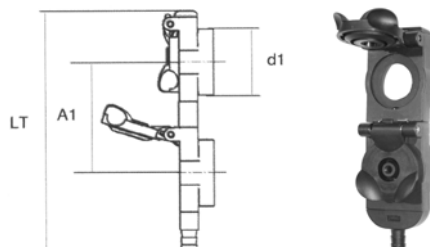
### Single dust cap

Body size inch	LT mm	d1 mm	Dust cap part number
1/2"	85	43	DCP-500*



### Double dust cap

Body size inch	LT mm	d1 mm	A1 mm	Dust cap part number
1/2"	140	43	55	DCP-555*
	157	43	72	DCP-572*
	167	43	82	DCP-582*













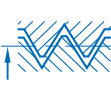
**\* Warning:** Coloured plugs are not included in the single and double dust caps but have to be ordered separately.

### Coloured plugs

Colour	Part number
Red	9809-018-R
Yellow	9809-018-J
Black	9809-018-N
Green	9809-018-V
Blue	9809-018-B
Brown	9809-018-M



**Note :** these dust caps are also suitable for the 1/2" 2000 series.

										
ISO 16028 and HTMA (for size 3/8")	Steel	from 1/4" to 1"	max 31.5 Mpa	-20°C + 100°C	NBR	Push-to-Connect	Flush-faced poppet	No	Ball locking mechanism with security	BSP, metric

### Main characteristics

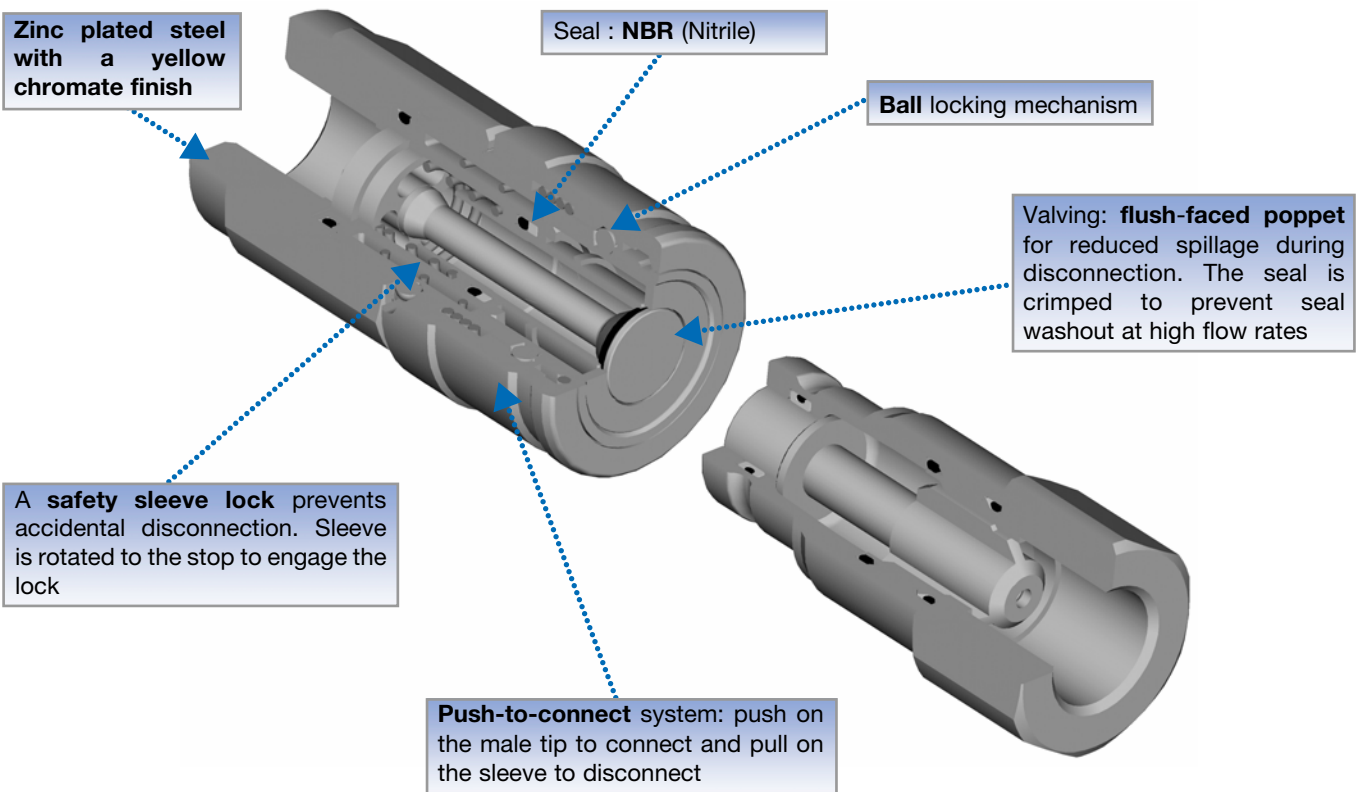
- Meets the requirements of **ISO 16028**
- Minimal fluid loss during disconnection
- Minimal inclusion of air or external agents during connection
- Safety system protecting against accidental disconnection
- Modular construction: broad choice of end configurations
- Minimal pressure drop

### Applications

- Hydraulic applications: excavators, rock hammers, drilling rigs
- Road service vehicles, snowploughs...
- Difficult working conditions: pressure impulses



### Technical features



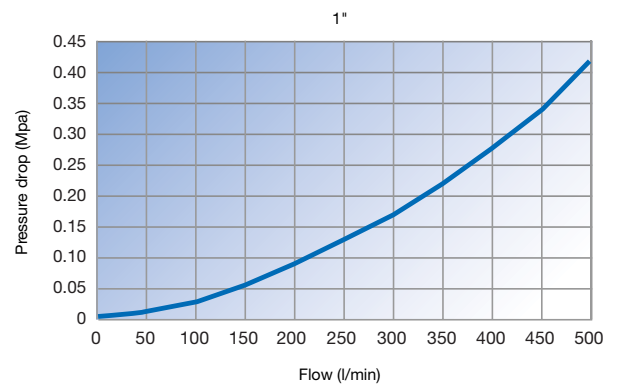
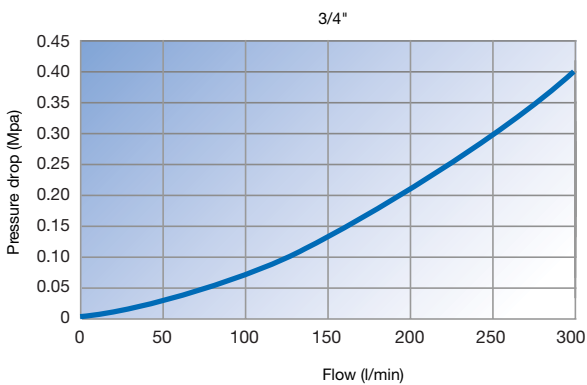
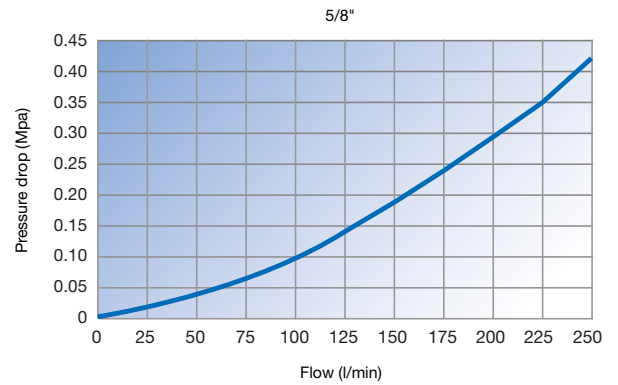
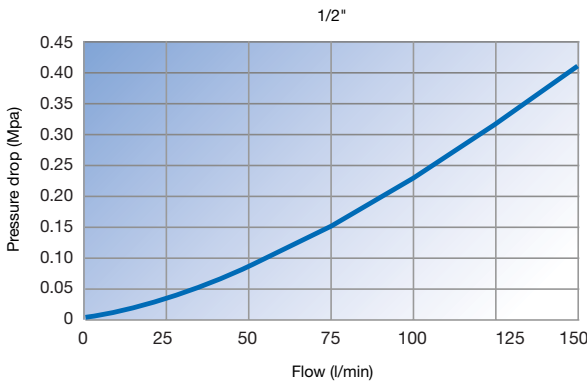
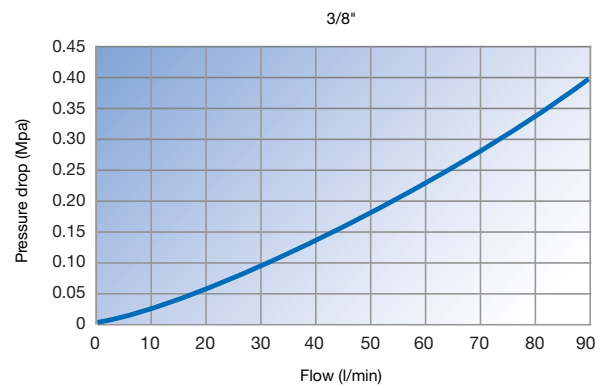
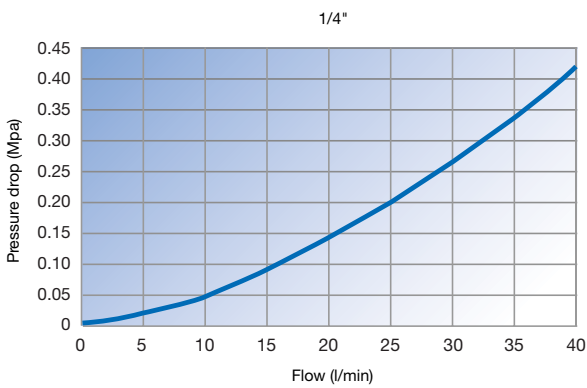


**Technical performance data**

Body size inch	Temperature range	Max. operating pressure Mpa	Min. burst pressure Mpa
1/4"	-20°C + 100°C	31.5	126
3/8"		25.0	100
1/2"		25.0	100
5/8"		25.0	100
3/4"		25.0	100
1"		20.0	80

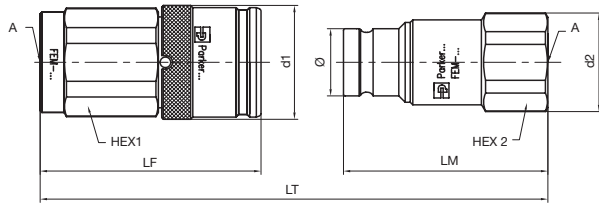
**Pressure drop**

Tests with oil viscosity 43 cSt at 38° C.



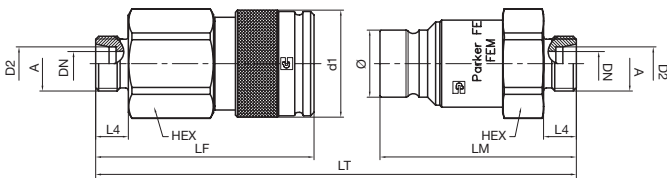
**Dimensions and part numbers**

**Female BSPP thread – DIN 3852**



Body size inch	Thread A inch	d1 mm	Hex 1 mm	LF mm	d2 mm	Hex 2 mm	LM mm	LT connected mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Female BSPP thread</b>													
1/4"	1/4	29.5	27	53.1	23.8	22	47.9	90.2	16.1	FEM-251-4FB	193	FEM-252-4FB	86
3/8"	3/8	33.5	30	64.8	29.0	27	60.0	108.8	19.7	FEM-371-6FB	286	FEM-372-6FB	146
	1/2	33.5	30	69.8	29.0	27	62.5	116.3	19.7	FEM-371-8FB	286	FEM-372-8FB	146
1/2"	1/2	39.5	36	76.8	35.0	32	68.0	127.6	24.5	FEM-501-8FB	467	FEM-502-8FB	235
	3/4	39.5	36	83.8	40.0	36	70.5	137.1	24.5	FEM-501-12FB	477	FEM-502-12FB	273
5/8"	3/4	43.5	41	84.0	38.5	36	73.0	139.5	27.0	FEM-621-12FB	640	FEM-622-12FB	299
3/4"	1	49.5	46	98.8	49.8	46	83.7	160.7	30.0	FEM-751-16FB	983	FEM-752-16FB	475
1"	1-1/4	56.5	55	105.8	59.8	55	90.0	172.8	36.0	FEM-1001-20FB	1365	FEM-1002-20FB	706

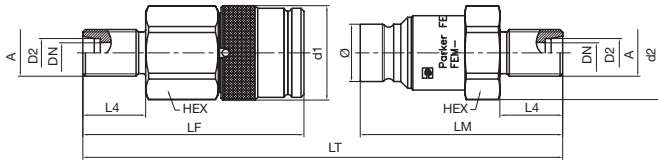
**24° cone – DIN 2353**



Body size inch	Series	Tube O/D D2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	d2 mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																
3/8"	L*	10	8	M16X1.5	33.5	30	69.6	32	65.5	119.1	11	19.7	FEM-371-16MCL	270	FEM-372-16MCL	155
	L*	12	10	M18X1.5	33.5	30	67.6	32	65.5	117.1	11	19.7	FEM-371-18MCL	262	FEM-372-18MCL	155
	L*	15	12	M22X1.5	33.5	30	68.6	32	66.5	119.1	12	19.7	FEM-371-22MCL	268	FEM-372-22MCL	161
1/2"	L*	12	10	M18X1.5	39.5	36	79.1	40	71.0	132.9	11	24.5	FEM-501-18MCL	433	FEM-502-18MCL	259
	L*	15	12	M22X1.5	39.5	36	80.1	40	72.0	134.9	12	24.5	FEM-501-22MCL	441	FEM-502-22MCL	265
3/4"	L*	18	16	M26X1.5	49.5	46	101.3	49.8	89.0	168.5	12	30.0	FEM-751-26MCL	979	FEM-752-26MCL	491
	L*	22	20	M30X2	49.5	46	100.3	49.8	89.0	167.4	14	30.0	FEM-751-30MCL	955	FEM-752-30MCL	480

\*Light series

**24° cone – DIN 2353 - Bulkhead**



Body size inch	Series	Tube O/D D2	DN mm	Thread A mm	d1 mm	Hex mm	LF mm	d2 mm	LM mm	LT connected mm	L4 mm	Ø mm	Part number female body	Weight gr./piece	Part number male tip	Weight gr./piece
<b>Male metric thread</b>																
3/8"	L*	10	8	M16X1.5	33.5	30	84.6	32.0	80.5	149.1	26	19.7	FEM-371-16BMCL	284	FEM-372-16BMCL	169
	L*	12	10	M18X1.5	33.5	30	82.6	32.0	80.5	147.1	26	19.7	FEM-371-18BMCL	279	FEM-372-18BMCL	171
	L*	15	12	M22X1.5	33.5	30	83.6	32.0	81.5	149.1	27	19.7	FEM-371-22BMCL	296	FEM-372-22BMCL	188
1/2"	L*	12	10	M18X1.5	39.5	36	94.1	40.0	86.0	162.9	26	24.5	FEM-501-18BMCL	451	FEM-502-18BMCL	275
	L*	15	12	M22X1.5	39.5	36	95.1	40.0	87.0	164.9	27	24.5	FEM-501-22BMCL	467	FEM-502-22BMCL	292
3/4"	L*	18	16	M26X1.5	49.5	46	116.3	49.8	104.0	198.5	27	30.0	FEM-751-26BMCL	1019	FEM-752-26BMCL	531
	L*	22	20	M30X2	49.5	46	120.3	49.8	109.0	207.5	34	30.0	FEM-751-30BMCL	1015	FEM-752-30BMCL	540

\*Light series

**Dust caps and plugs**

**Plastic**

Body size inch	Plug part number for female body	Cap part number for male tip
1/4"	PFE-251-P	CFE-252-P
3/8"	PFE-371-P	CFE-372-P
1/2"	PFE-501-P	CFE-502-P
5/8"	PFE-621-P	CFE-622-P
3/4"	PFE-751-P	CFE-752-P
1"	PFE-1001-P	CFE-1002-P



**Automatic dust cap for female body**

**Plastic**

Body size inch	Cap part number for female body
3/8"	DFE-371-P
1/2"	DFE-501-P
5/8"	DFE-621-P
3/4"	DFE-751-P



**Note :** Standard dust caps and plugs are black. Please consult us for other colours

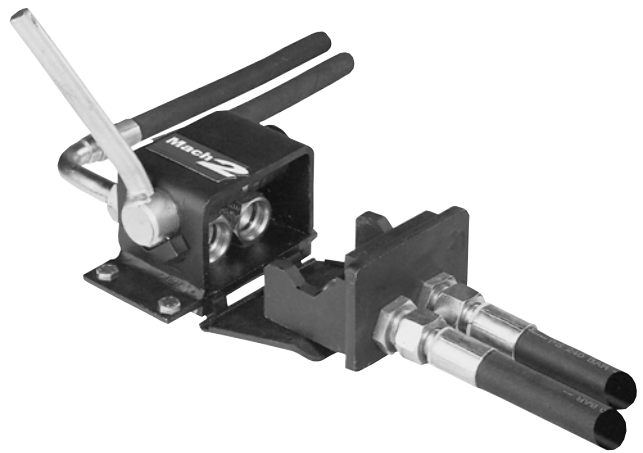
ISO 7241-1-A	Steel	1/2"	25 Mpa	-30°C + 110°C	NBR	Manual	Poppet	Yes	Cam mechanism	DIN 2353 -15L

### Main characteristics

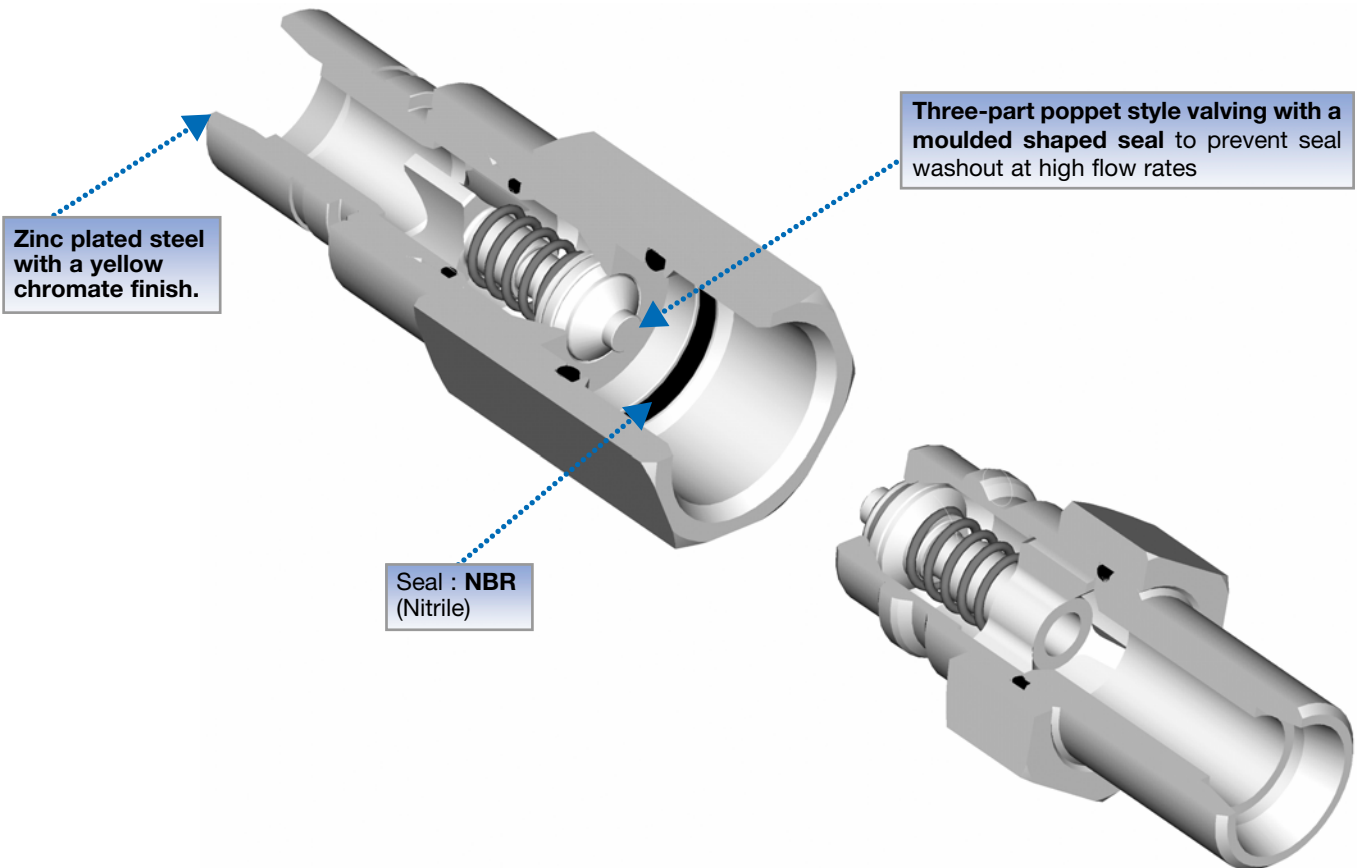
- Meets the requirements of **ISO 7241-1 Series A**
- Possibility of connecting 2 hydraulic lines simultaneously
- No coupling misconnection or accidental disconnection
- Possibility of connecting under pressure up to 25 Mpa in one hydraulic line only

### Applications

- Agricultural applications: front loaders, hedge cutters...
- Road service vehicles: road service lorries, road sweepers, snowploughs...
- Industrial applications: easy and fast connection and disconnection of implements or tooling



### Technical features

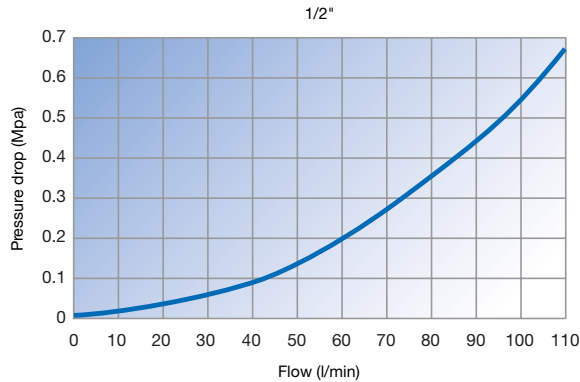


## Technical performance data

Body size inch	Temperature range	Max. operating pressure Mpa	Min. burst pressure Mpa
1/2"	-30°C +110°C	25	96

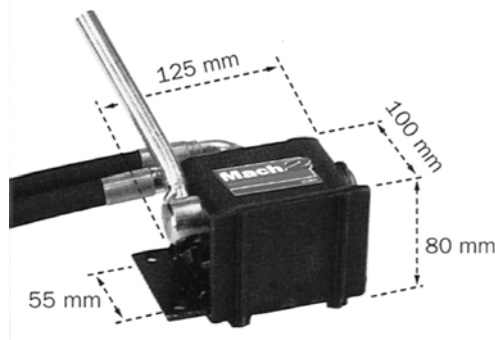
## Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



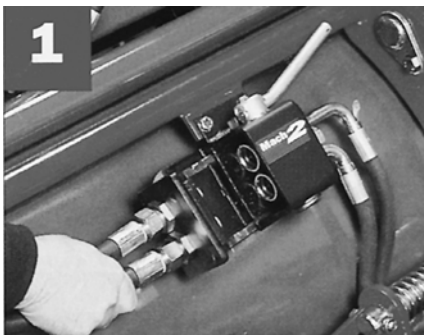
## Functioning

**Mechanical attachment:** 2 mounting holes Ø 8.5 mm



**Functioning:**

**Locating**



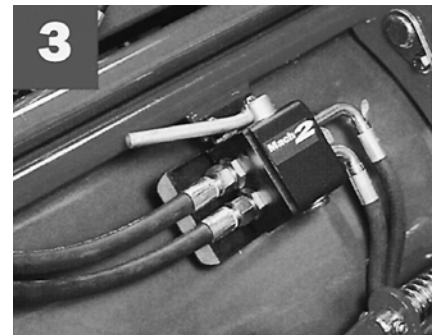
Using one hand, the plug is pushed to open the dust cover and then is introduced into the connecting box.

**Locking**



Just move the handle with the other hand.

**It is connected**



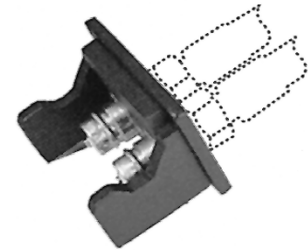
The MACH 2 is connected and locked.

## Dimensions and part numbers

### Plug :

**Description :** Complete unit including the connecting plug and 2 male tips, which meet the requirements of ISO 7241-1-A.

Number of hydraulic lines	End configuration	Part number	Weight gr./piece
2	DIN2353-15L (M22x1.5)	MACH2-IA-P	1203



### Connecting box:

**Description :** Complete unit including the base connector unit, its dust cover, a lever acting as a central locking device and 2 female bodies, which meet the requirements of ISO 7241-1-A.

Number of hydraulic lines	End configuration	Part number	Weight gr./piece
2	DIN2353-15L (M22x1.5)	MACH2-IA-B	2723



**Note :** Other types of MACH 2 with non-spill connections are also available upon request. Please consult us for further information.

## Spare parts

Part	Part number
Female body seal	JT020117N0552
Female body	LV54D6X5MLXC
Male tip	LV14E6X5MLX

ISO 7241-1-A	Steel	1/2"	25 Mpa	-30°C + 110°C	NBR	Manual	Poppet	Yes	Ball and cam locking mechanism	DIN 2353

### Main characteristics

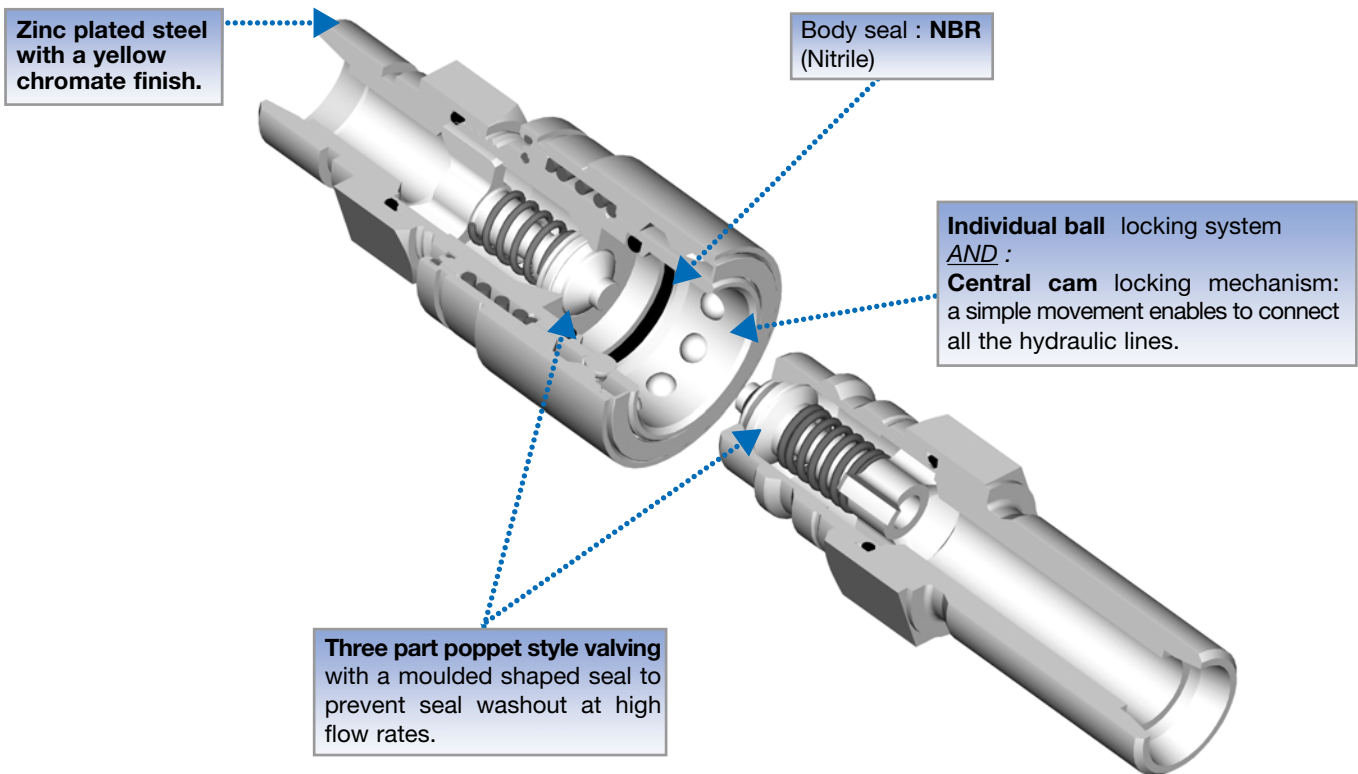
- Meets the requirements of **ISO 7241-1 Series A**
- Possible to connect 4, 5, 6 or 7 hydraulic lines simultaneously
- No coupling misconnection or accidental disconnection
- Using a standard interface will still allow end users to connect their standard quick coupling equipped implements
- In the version with seven lines (MACH 7), the base connector is equipped with an electrical connector as standard feature, which is an option on the MACH 4, 5 and 6.
- Possible to connect with two lines under 20 Mpa, if other lines are not under pressure

### Applications

- Agricultural applications: front loaders, hedge cutters...
- Road service vehicles: road systems lorries, road sweepers, snowploughs...
- Industrial applications: easy and fast connection and disconnection of implements or tooling



### Technical features

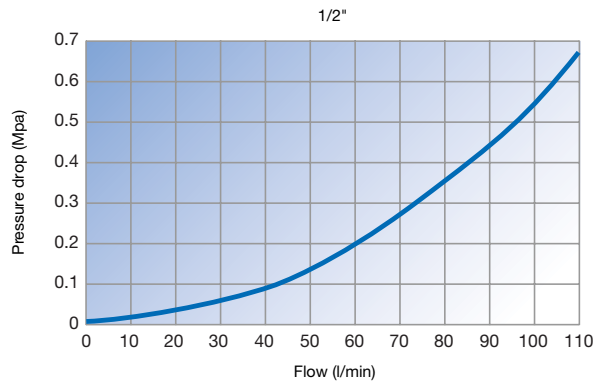


**Technical performance data**

Body size inch	Temperature range	Max. operating pressure (Mpa)	Burst pressure (Mpa)		
			Connected	female body	male tip
1/2"	-30°C +110°C	25	85	130	80

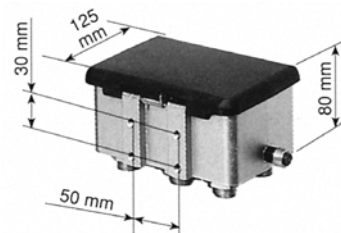
**Pressure drop**

Tests with oil viscosity 43 cSt at 38°C.



**Functioning**

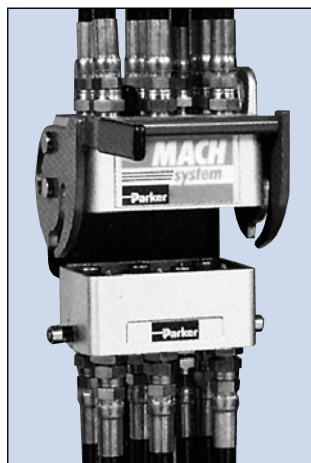
**Base unit:** Mounted with 4 screws M8x1.25 mm.



**Functioning:**



The dust cover is lifted and the top connector put on the base connector. The centring is automatically realised.



When it is disconnected, the automatic dust cover ensures a complete dust and moisture protection of the base connector.



Push down in only one action. It is locked with little effort.





**Dimensions and part numbers**

**Top connectors:**

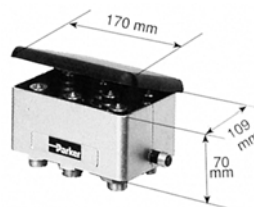
**Description :** This top connector unit includes the top casting with 4 to 7 female quick couplings and the complete cam locking system. In the most common version with 7 lines, the top connector is also equipped with a 6 line female electrical connector as a standard feature.



Number of hydraulic lines	Number of threads DIN 2353		Part number without electrical connector	Part number with electrical connector
	15L (M22x1.5)	12L (M18x1.5)		
4	4	0	MACH4/715LT	MACH4/715LTE
5	5	0	MACH5/715LT	MACH5/715LTE
6	6	0	MACH6/715LT	MACH6/715LTE
7	6	1	-	MACH7T

**Base connector:**

**Description :** This base connector unit includes the base casting and automatic protective cover, 4 to 7 male quick couplings and the positioning pins. Also included are an adaptor and a plastic hose to drain oil. In the most common version with 7 lines, the base connector is also equipped with a 6 line male electrical connector as a standard feature.



Number of hydraulic lines	Number of threads DIN 2353		Part number without electrical connector	Part number with electrical connector
	15L (M22x1.5)	12L (M18x1.5)		
4	4	0	MACH4/715LB	MACH4/715LBE
5	5	0	MACH5/715LB	MACH5/715LBE
6	6	0	MACH6/715LB	MACH6/715LBE
7	6	1	-	MACH7B

**Accessories**

**Oil drain kit:**

**Description :** This kit includes the removable tank to contain oil spillage and a holding fixture.

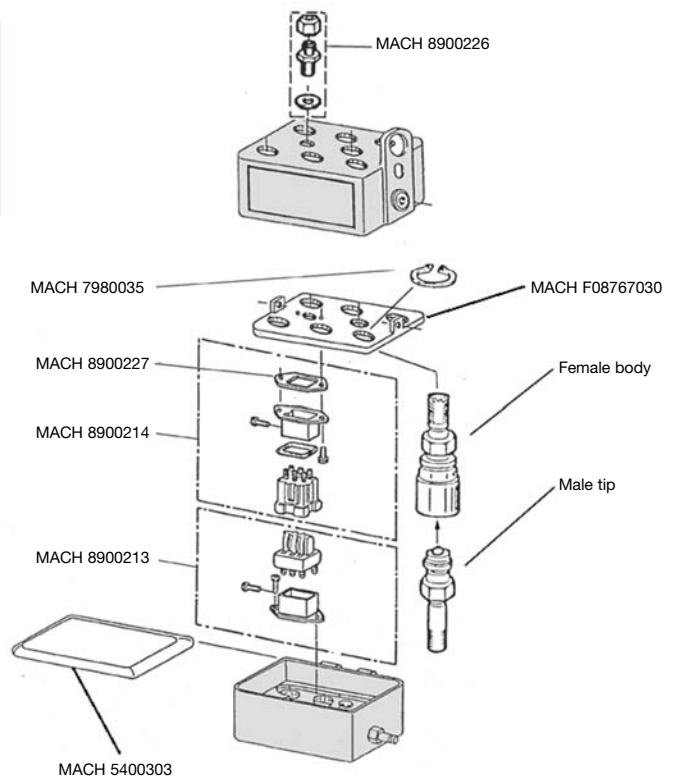
Part number
MACH A



**Spare parts**

Part	Part number
Electrical socket	MACH 8900214
Washer	MACH 8900227
Grommet	MACH 8900226
Electrical plug	MACH 8900213
Snap ring	MACH 7980035
Counter plate	MACH F08767030
Cover	MACH 5400303

Part	End configuration	Part number
Female body	DIN 2353-15L	3V54D6X5MCH
Male tip	DIN 2353-15L	4V14E6X5MCHA
Female body	DIN 2353-12L	3V54D6X4MCH
Male tip	DIN 2353-12L	4V14E6X4MCHA

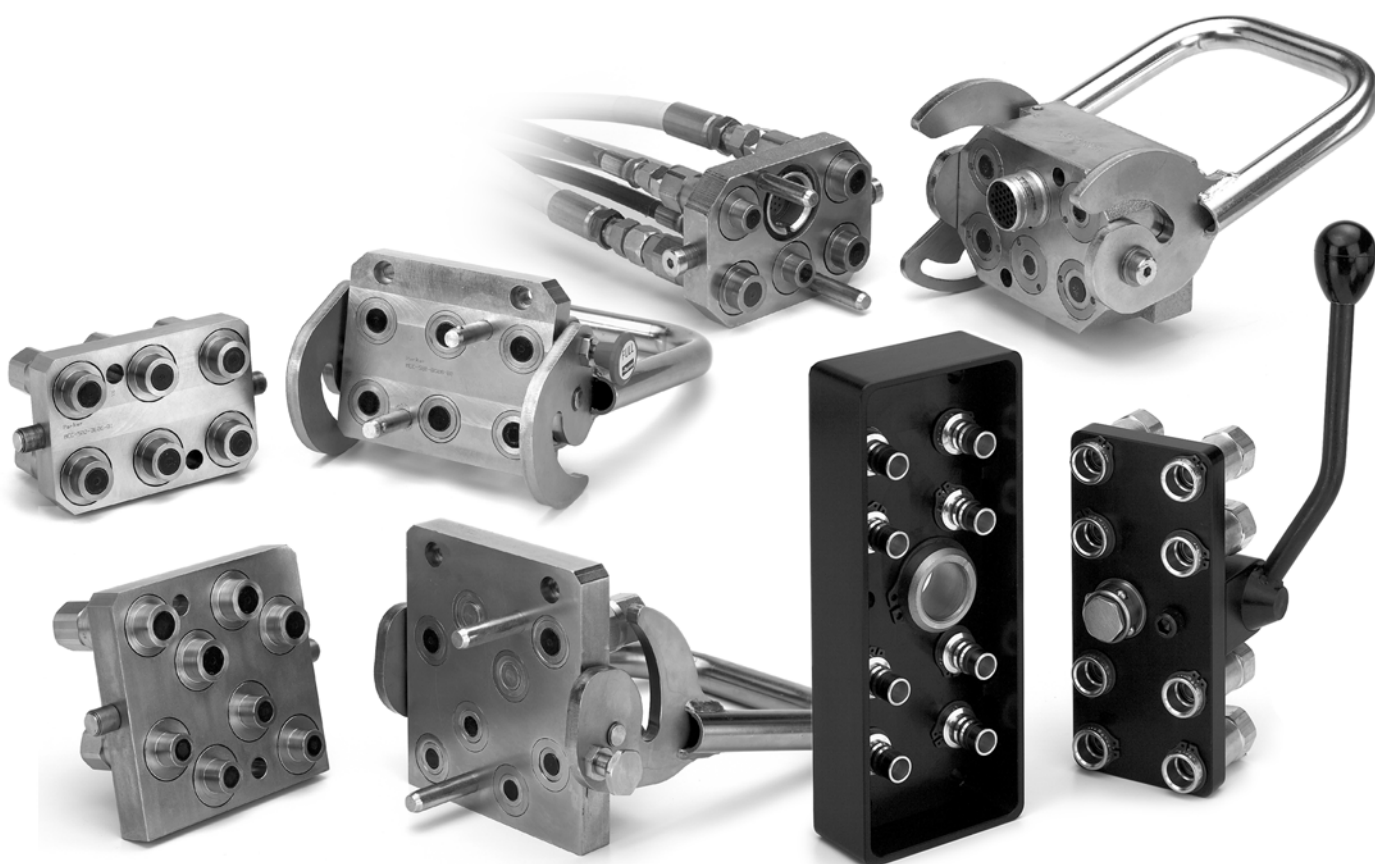


### Main characteristics












- *Multicouplings solutions with flat-faced couplings*
- *No fluid spillage*
- *Possibility of using couplings from 1/4" to 1"*
- *Up to 24 cavities*

### Applications

- Rapid connecting/disconnecting of tooling with several hydraulic lines (front loaders, forestry machines, harvesters, construction,...)



Please contact your Parker sales engineer.

			 max							
ISO 5676 NFU 16006	Steel	1/2"	15 Mpa	-40°C + 110°C	NBR	In function of female body	Flat-faced	No	Not Applicable	French nominal pipe

## Main characteristics

- Male type braking valve
- Meets the requirement of **ISO 5676** and **NFU 16006**
- Only male tip is available

## Applications

- Connection and disconnection on hydraulic braking systems for tractors, towing, agricultural and forestry equipment



## Technical features

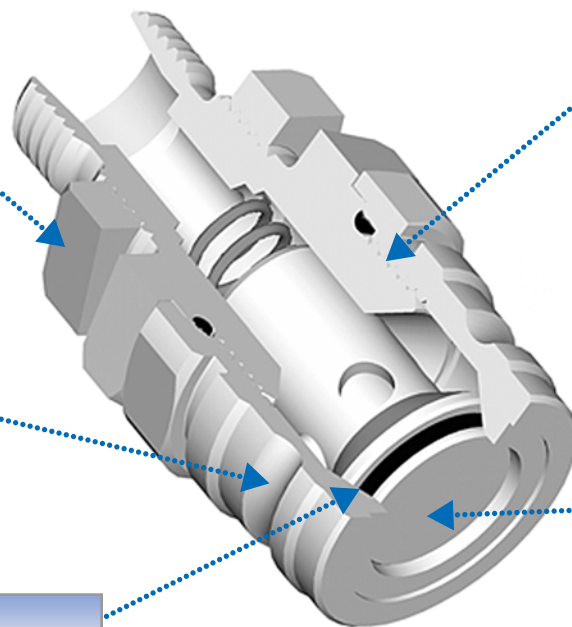
Male tip designed for bulkhead mounting

Zinc plated steel with a yellow chromate finish

Heat treated groove to prevent brinelling

Valving: flat-faced poppet, the seal is crimped to withstand flow surges.

Seal:  
**NBR** (Nitrile).



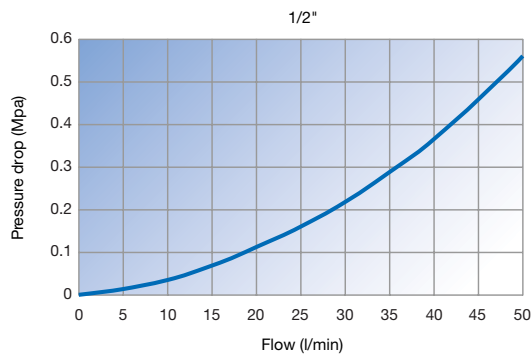
*This male tip is delivered with a plastic dust cap as a standard feature.*

Technical performance data

Body size inch	Temperature range	Max. operating pressure Mpa	Burst pressure Mpa
1/2"	-40°C +110°C	15	31.5

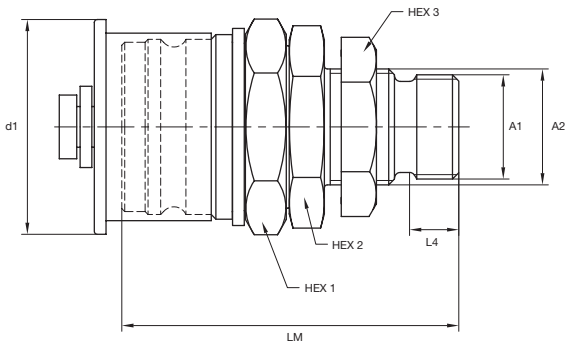
Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



Dimensions and part numbers












24° cone



Body size inch	Tube O/D d2	A1	A2	d1 mm	Hex 1	Hex 2	Hex 3	LM mm	L4 mm	Part Number	Weight gr./piece
1/2"	1/2	M18x1.5	M20x1.5	36.8	32	30	27	57.7	9	5676L6X4K	166

For French nominal pipe

Other end configurations are available on request. Please contact your Parker Sales engineer.

			 max							
SAE J 1502 ISO 15171-1	Steel (Brass on request)	1/8"	42 Mpa	-40°C + 110°C	NBR	Push-to- connect	Flat-faced poppet	No	Ball locking mechanism	NPTF, UNF, metric

## Main characteristics

- Diagnostic couplings provide easily accessible test points for performance testing of hydraulic and pneumatic systems
- Easily incorporated into original equipment or retrofitted to existing circuits
- PD Nipples meet or exceed SAE J 1502 and ISO 15171-1 design and performance specification

## Applications

- Industrial equipment
- Mobile equipment
- Agricultural equipment



## Technical features

**Carbon steel** for couplers. **High tensile steel** for nipples. Also available in **brass** on request.

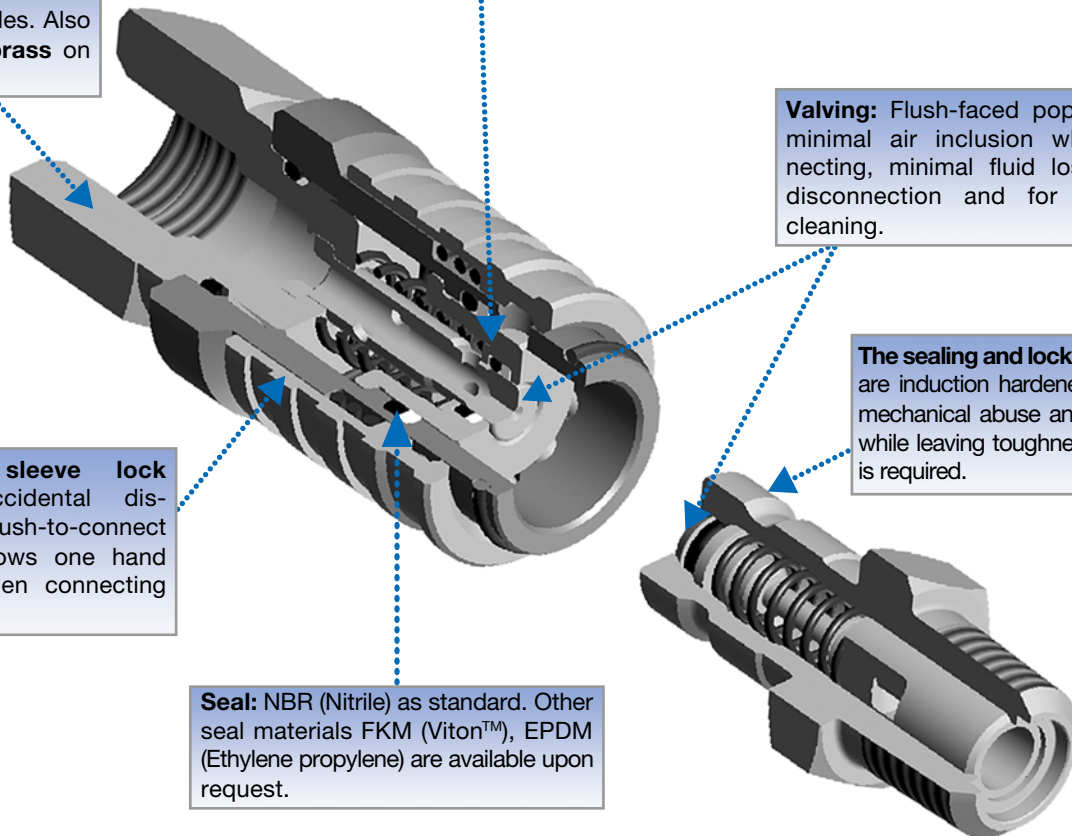
**Locking:** Ball locking mechanism.

**Valving:** Flush-faced poppet for a minimal air inclusion when connecting, minimal fluid loss during disconnection and for an easy cleaning.

**The sealing and locking groove** are induction hardened to resist mechanical abuse and brinelling while leaving toughness where it is required.

A **safety sleeve lock** prevents accidental disconnection. Push-to-connect operation allows one hand operation when connecting the coupling.

**Seal:** NBR (Nitrile) as standard. Other seal materials FKM (Viton™), EPDM (Ethylene propylene) are available upon request.



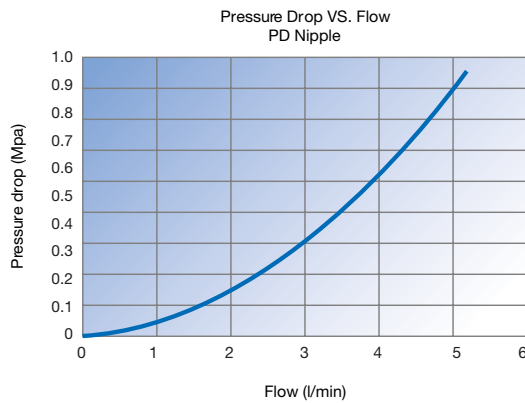
**Technical performance data**

Series	Temperature range	Rated Pressure (Mpa)	Burst pressure (Mpa)			Vacuum test (mm Hg) (daN)	Connecting force (daN)	Disconnecting force	Spillage max. per disconnection (ml)	Air inclusion per connection (ml)
			Coupler	Nipple	Connected					
PD	-40°C +110°C	42	140	280	119	700	18.6*	8.8*	0.1**	0.02

\* With 0.7 Mpa internal pressure.  
 \*\* At 0.1 Mpa.

**Pressure drop**

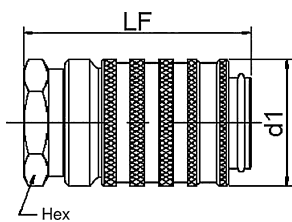
Tests with oil viscosity 43 cSt at 38°C.



**Dimensions and part numbers**

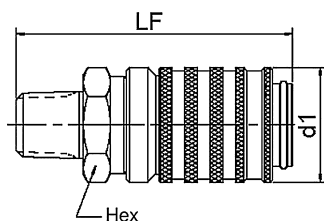
**Female body**

**Female and male threads - SAE J 476**



Body size inch	Thread A mm	d1 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Female NPTF thread</b>						
1/8"	1/8-27	24.4	13/16"	42.4	PD222	90
	1/4-18	24.4	13/16"	53.8	PD242	113
<b>Male NPTF thread</b>						
1/8"	1/4-18	24.4	13/16"	57.4	PD243	104

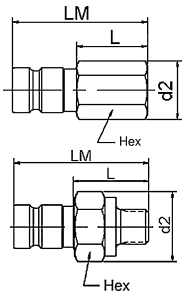
**Female thread - SAE J 1926**



Body size inch	Thread A mm	d1 mm	Hex mm	LF mm	Part number	Weight gr./piece
<b>Female UNF thread</b>						
1/8"	9/16-18	24.4	13/16"	53.8	PD260	109

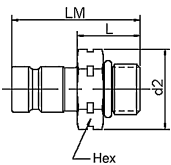
**Male tip**

**Female and male threads - SAE J 476**



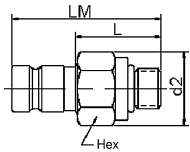
Body size Inch	Thread	d2 mm	Hex	L mm	LM mm	Part Number Male tip	Weight gr/piece
<b>Female NPTF thread</b>							
1/8"	1/8-27	16.5	9/16"	19.8	37.6	PD322	27
	1/4-18	21.9	3/4"	23.6	41.4	PD342	54
<b>Male NPTF thread</b>							
1/8"	1/8-27	20.1	11/16"	21.6	39.4	PD323	77
	1/4-18	20.1	11/16"	19.8	37.6	PD343	27
	3/8-18	23.8	13/16"	20.3	38.1	PD363	40

**Male thread to ISO 6149**



Body size Inch	Thread	d2 mm	Hex	L mm	LM mm	Part Number Male tip	Weight gr/piece
<b>Male metric thread</b>							
1/8"	M14 x 1.5	19.6	17 mm	17.3	35.0	PD367-1A	32

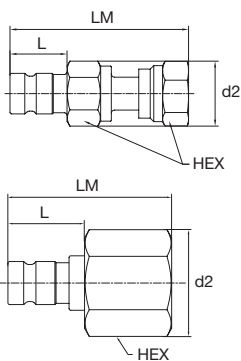
**Male thread - SAE 1926**



Body size Inch	Thread	d2 mm	Hex	L mm	LM mm	Part Number Male tip	Weight gr/piece
<b>Male UNF thread</b>							
1/8"	7/16-20	20.1	11/16"	22.9	40.6	PD341	36
	1/2-20	18.3	5/8"	15.7	33.5	PD351*	22
	9/16-18	20.1	11/16"	15.7	33.5	PD361*	27

\* Add 6 to part number to include dust cap.

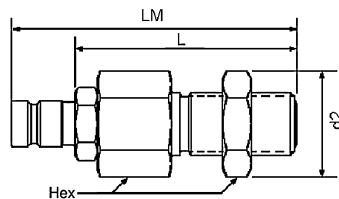
**SAE J 1453 / ISO 8434-3**



Body size Inch	Thread	Tube size	Hex	L mm	d2 mm	LM mm	Part Number Male tip	Weight gr/piece
<b>O-Lok</b>								
1/8"	9/16-18	1/4" (6 mm)	11/16"	17.8	20.1	55.4	PD34BTL	54
	11/16-16	3/8" (10 mm)	13/16"	17.8	23.9	58.4	PD36BTL	63
<b>O-Lok</b>								
1/8"	13/16-16	1/2" (12 mm)	1 5/16"	17.8	38.4	28.4	PD38BTL*	58

\* Add 6 to part number to include dust cap.

**SAE J 1453 / ISO 8434-3 - Bulkhead**



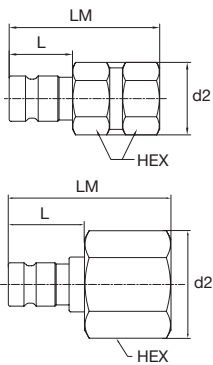
Body size Inch	Thread	Tube size	d2 mm	Hex	L mm	LM mm	Part Number Male tip	Weight gr/piece
<b>Bulkhead O-Lok</b>								
1/8"	9/16-18	1/4" (6 mm)	23.8	13/16"	57.9	75.7	PD346*	86

\* Add 6 to part number to include dust cap.



**Male tip**

**SAE J 514 - ISO 8434-2**



Body size Inch	Thread	Tube size	Hex	L mm	d2	LM mm	Part Number Male tip	Weight gr/piece
<b>Triple-Lok</b>								
1/8"	9/16-18	3/8" (10 mm)	11/16"	17.8	20.1	42.2	PD36BTX*	40
<b>Triple-Lok</b>								
1/8"	1 1/16-12	3/4" (20 mm)	1 1/4"	17.8	36.5	35.3	PD312BTX	122

\* Add 6 to part number to include dust cap.

**Dust cap**

**Rubber**












Body size	Dust cap part number for male tip
1/8"	PD6

Other material (EPDM / FKM / HNBR) are available on request.

**Options**

1. For some end configurations, test points are also available in brass and stainless steel AISI 316.
2. Other metric end configurations are available upon request.
3. Possibility to have test point connectable under pressure up to 42 Mpa.

**Please consult your Parker Sales engineer.**

										
No standard	Steel	3/8", 1/2", 3/4", 1" & 1 1/4"	35 Mpa max	-40°C + 110°C	NBR	Not applicable	Poppet	Not applicable	Not applicable	UN/UNF, Metric

## Main characteristics

- *One-piece body: eliminates threads and seals that may be potential failure or leakage points*
- *Large range of end configurations*

## Applications

- Industrial equipment
- Mobile equipment
- Pumps, protection for oil cooler, transmission and generally all hydraulic circuits



## Technical features

**All steel construction:**  
No internal gaskets or seals to wear out. Zinc chromate exterior finish.

**Check valve body** is shaped like an arrow to indicate flow direction

**Valving:** heat treated poppet to resist damage from shocks and surges

**Smooth flow stream:**  
Poppet spring is isolated from flow stream minimizing turbulence.

**One piece body eliminates** threads and seals that may be potential leakage points.

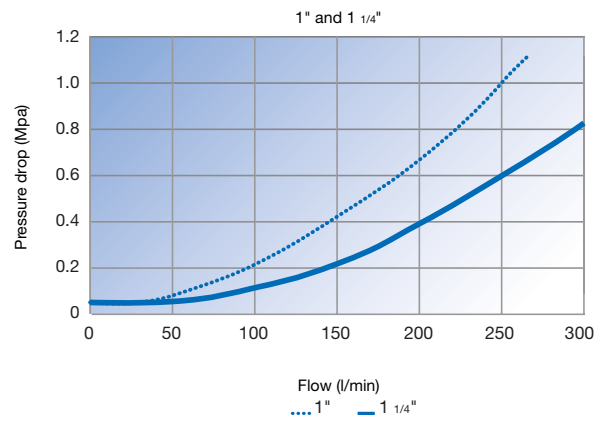
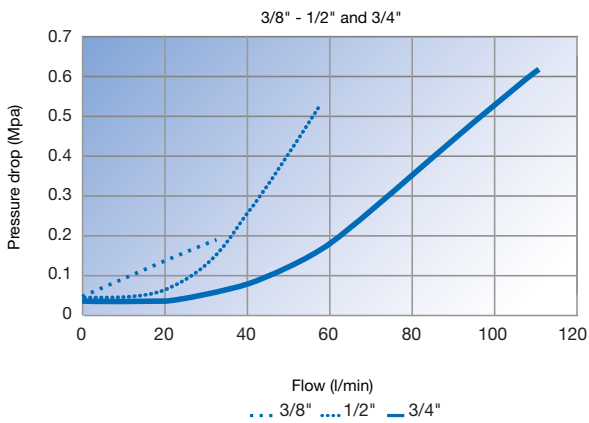
**Compact design.**  
Easy to plumb into tight circuits.

Technical performance data

Body size inch	Max operating pressure Mpa	Optional Crack pressure up to Mpa
3/8" to 1 1/4"	35	1.4

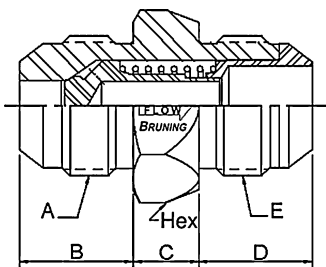
Pressure drop

Tests with oil viscosity 43 cSt at 38°C.



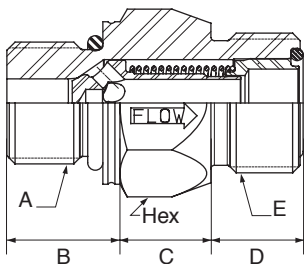
Dimensions and part numbers

DT-MFMF: male JIC 37° flare inlet to male JIC 37° flare outlet



Body size Inch	A SAE J514 Triple-Lok	B mm	C mm	D mm	E SAE J514 Triple-Lok	Hex	Part number
3/8"	9/16"-18 UNF	14.2	11.2	14.2	9/16"-18 UNF	3/4"	DT-370-MFMF-5
1/2"	3/4"-16 UNF	16.8	12.7	16.8	3/4"-16 UNF	7/8"	DT-500-MFMF-5
3/4"	1 1/16"-12 UN	21.8	12.7	21.8	1 1/16"-12 UN	1 1/4"	DT-750-MFMF-5
1"	1 5/16"-12 UN	23.1	15.8	23.1	1 5/16"-12 UN	1 1/2"	DT-1000-MFMF-5
1 1/4"	1 5/8"-12 UN	24.4	26.9	24.4	1 5/8"-12 UN	1 7/8"	DT-1250-MFMF-5

DT-MMMS: male metric ISO 6149 inlet to male O-Lok outlet

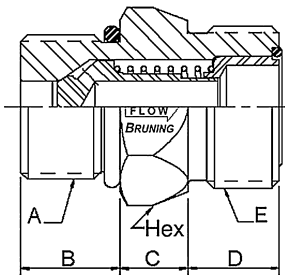


Body size Inch	A ISO 6149 Male O-Ring Boss	B mm	C mm	D mm	E SAE J1453 O-Lok	Hex	Part number
1/2"	M18X1.5	14.0	15.7	13.0	13/16"-16 UN	15/16"	DT-500-MMMS-5

NBR (Nitrile) O-Ring included on MS fittings.

## Check valves DT Series

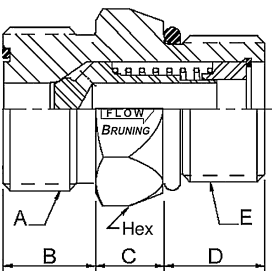
### DT-MOMS : male ORB inlet to male O-Lok outlet



Body size Inch	A ISO 11926-2/3 Male O-Ring Boss	B mm	C mm	D mm	E SAE J1453 O-Lok	Hex	Part number
3/8"	9/16"-18 UNF	11.9	11.2	11.2	11/16"-16 UN	3/4"	DT-370-MOMS-5
1/2"	3/4"-16 UNF	14.0	12.7	12.7	13/16"-16 UN	7/8"	DT-500-MOMS-5
3/4"	1 1/16"-12 UN	18.5	12.7	17.0	1 3/16"-12 UN	1 1/4"	DT-750-MOMS-5
1"	1 5/16"-12 UN	18.5	15.8	17.5	1 7/16"-12 UN	1 1/2"	DT-1000-MOMS-5
1 1/4"	1 5/8"-12 UN	18.5	26.9	17.5	1 11/16"-12 UN	1 7/8"	DT-1250-MOMS-5

NBR (Nitrile) O-Ring included on MO and MS fittings.

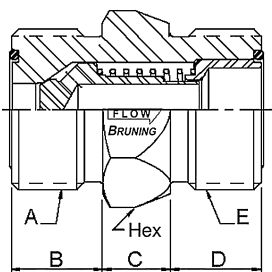
### DT-MSMO : male O-Lok inlet to male ORB outlet



Body size Inch	A SAE J1453 O-Lok	B mm	C mm	D mm	E ISO 11926-2/3 Male O-Ring Boss	Hex	Part number
3/8"	11/16"-16 UN	11.2	11.2	11.9	9/16"-18 UN	3/4"	DT-370-MSMO-5
1/2"	13/16"-16 UN	12.7	12.7	14.0	3/4"-16 UN	7/8"	DT-500-MSMO-5
3/4"	1 3/16"-12 UN	17.0	12.7	18.5	1 1/16"-12 UN	1 1/4"	DT-750-MSMO-5
1 1/4"	1 11/16"-12 UN	17.5	26.9	18.5	1 5/8"-12 UN	1 7/8"	DT-1250-MSMO-5

NBR (Nitrile) O-Ring included on MO and MS fittings.

### DT-MSMS : male O-Lok inlet to male O-Lok outlet










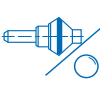
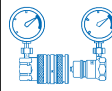


Body size Inch	A SAE J1453 O-Lok	B mm	C mm	D mm	E SAE J1453 O-Lok	Hex	Part number
3/8"	11/16"-16 UN	11.2	11.2	11.2	11/16"-16 UN	3/4"	DT-370-MSMS-5
1/2"	13/16"-16 UN	12.7	12.7	12.7	13/16"-16 UN	7/8"	DT-500-MSMS-5
3/4"	1 3/16"-12 UN	17.0	12.7	17.0	1 3/16"-12 UN	1 1/4"	DT-750-MSMS-5
1"	1 7/16"-12 UN	17.5	15.8	17.5	1 7/16"-12 UN	1 1/2"	DT-1000-MSMS-5
1 1/4"	1 11/16"-12 UN	17.5	26.9	17.5	1 11/16"-12 UN	1 7/8"	DT-1250-MSMS-5

NBR (Nitrile) O-Ring included on MO and MS fittings.

## Options

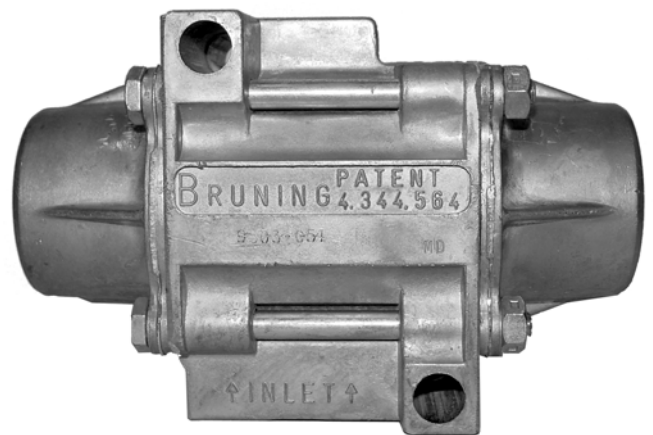
Standard crack pressure is 0.035 Mpa (5 PSI). Other crack pressures up to 1.4 Mpa (200 PSI) in 0.035 Mpa (5 PSI) increments are available on request. Please consult your Parker sales engineer.

For other threads, other sizes or other end configurations, please contact your Parker sales engineer.

										
No standard	Aluminium die-cast housing	1"	max 1.7 Mpa (250 psi)	-30°C to +110°C	NBR, FKM	Not applicable	Integral relief valve	Not applicable	Not applicable	UNF

### Main characteristics

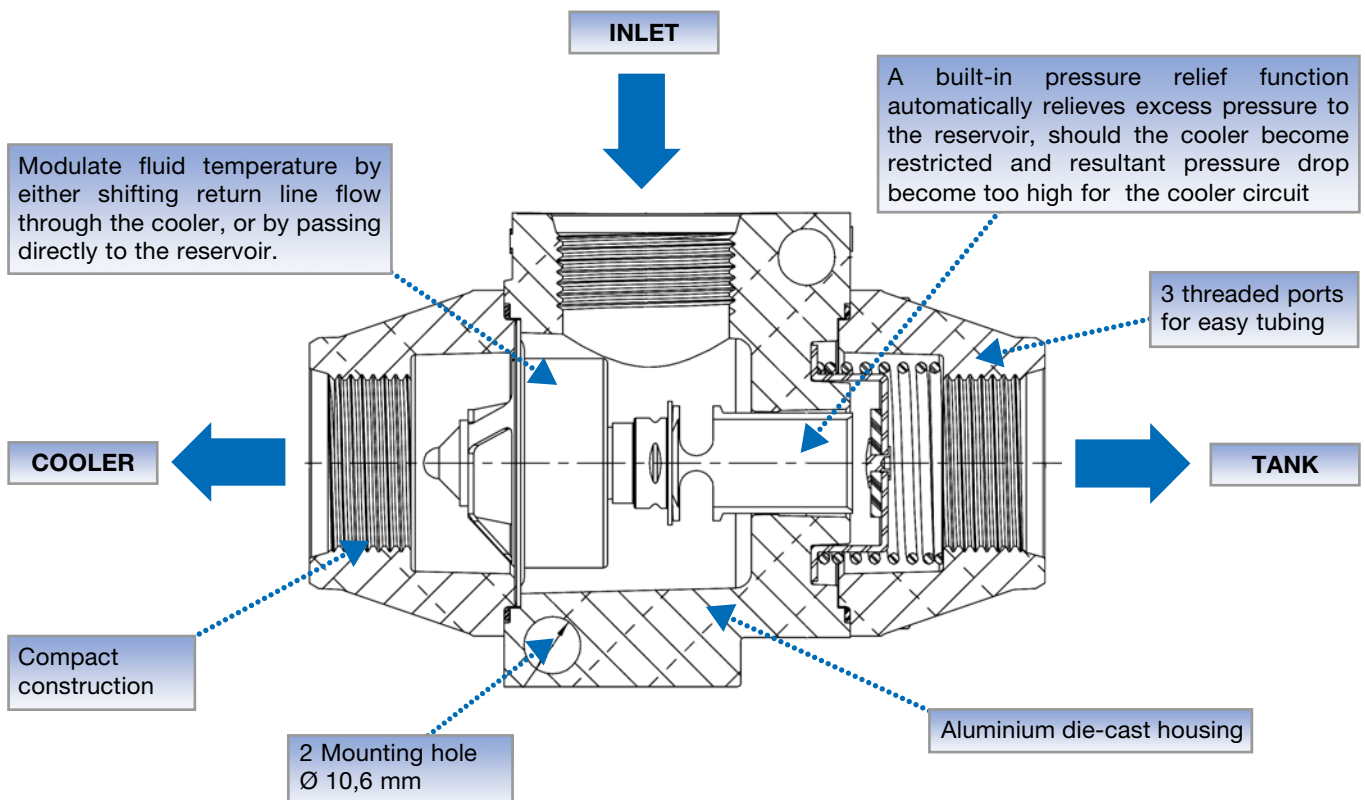
- Temperature responsive bypass valve to modulate return line oil between tank and oil cooler.
- Available in 5 shift temperatures, 38°C to 82°C (100°F to 180°F)
- Integral relief valve to dump excessive inlet pressures to the reservoir. Relief pressure settings available from 0.034 to 0.6 Mpa (5 to 85 psi).
- 1.7 Mpa (250 psi) maximum operating pressure
- Up to 227 l/mn (60 GPM US) flow rates



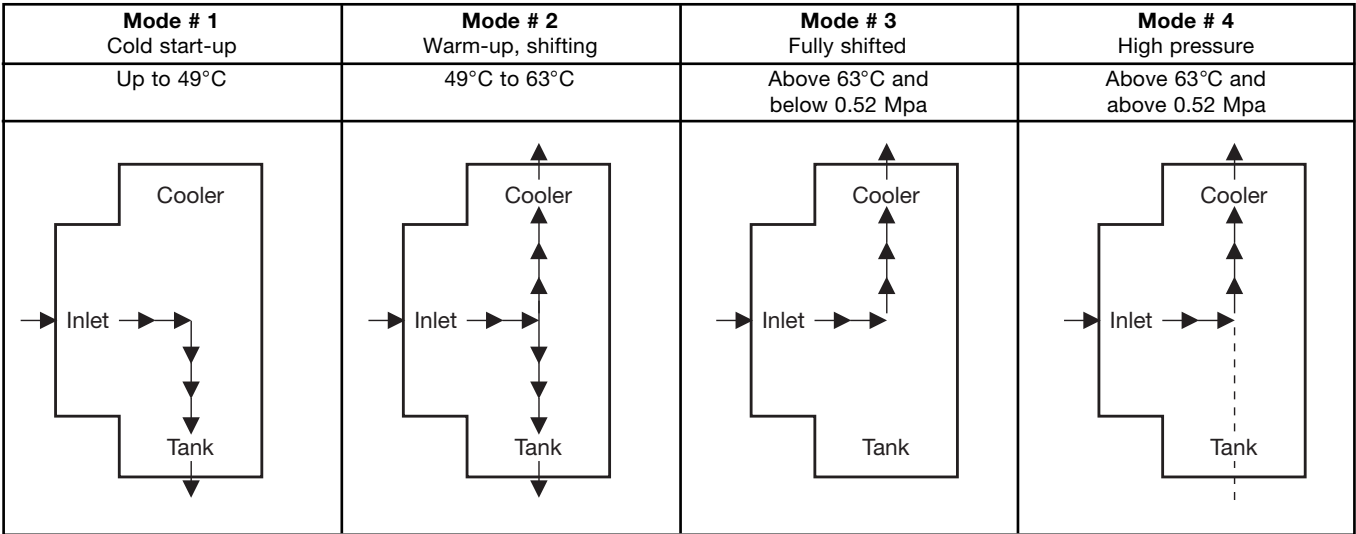
### Applications

- Ideally suited for hydrostatic drive circuits which require fast warm-up, controlled fluid temperatures and low return line-back pressure.

### Technical features



Operating Sequence



Fluid Flow Example with:

- A. 49°C Opening Temperature
  - B. 0.52 Mpa Integral Relief
- Fluid Flow =
- Excess Pressure =

- A. Mode #1:**  
At temperatures below the shift temperature oil flows inlet to tank port.
- B. Mode #2:**  
At temperatures between the start of shift and full shift

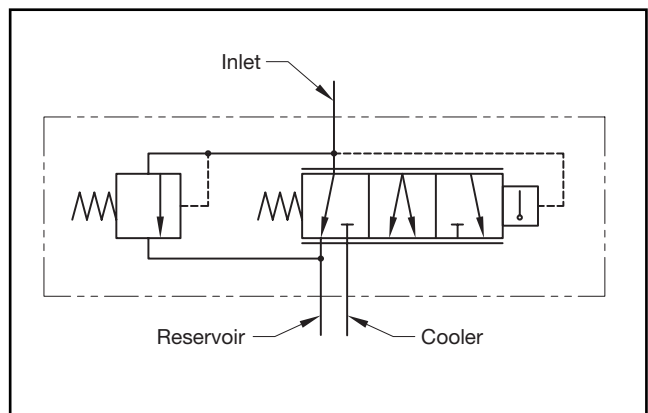
- the flow from the inlet port is divided between the cooler and tank ports.
- C. Mode#3:**  
At temperatures above the full shift temperature inlet flow is through cooler port.

- D. Mode #4:**  
At temperatures above the full shift temperature the excess pressure is relieved through the tank port.

Technical performance data

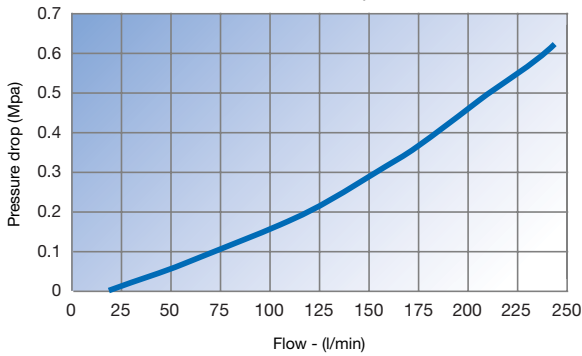
Body size inch	Minimum Operating temperature	Max.operating pressure temperature	Rated pressure	Proof pressure	Minimum burst pressure up to the full shift temperature	Minimum burst pressure above the full shift temperature	Max. flow rating
1"	-30°C	Shift temperature plus 24°C (75°F)	1.7 Mpa	2.1 Mpa	2.2 Mpa	4.1 Mpa	227 l/min

- Standards Shift Temperatures: 100°F (38°C), 120°F (49°C), 140°F (60°C), 160°F (71°C), 180°F (82°C)
- Full shift (cooler port open) Temperature: Shift temperature plus 25°F (14°C)
- Relief Valve Setting: Up to 0.6 Mpa (6 bar) in 0.035 Mpa increments
- Proof Pressure: 2.1 Mpa (21 bar)
- Operating Fluid: Mineral base hydraulic fluids
- Leakage at 1.7 Mpa (17 bar) and 227 l/min (60 gpm) inlet flow:
  - Cooler port:
    - 2 l/min (0.5 gpm) max. up to 3°C (5°F) before shift temperature
    - 4 l/min (1 gpm) max. from 3°C (5°F) before shift to shift
  - Tank Port:
    - 0.4 l/min (0.1 gpm) maximum

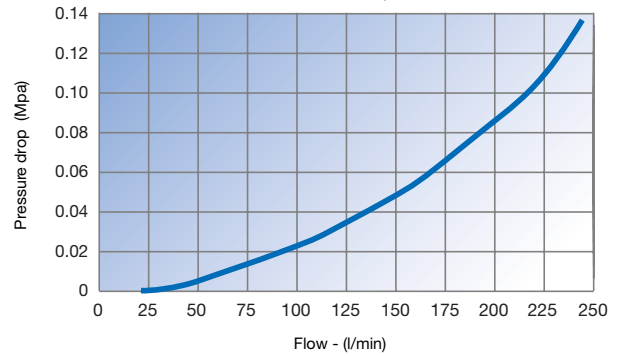


**Pressure drop**

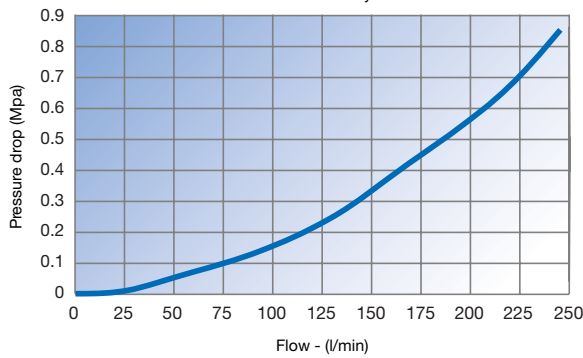
Inlet port through Tank port<sup>®</sup> 38°C  
 Test with oil viscosity 64 cst



Inlet port through Cooler port<sup>®</sup> 63°C  
 Test with oil viscosity 23 cst

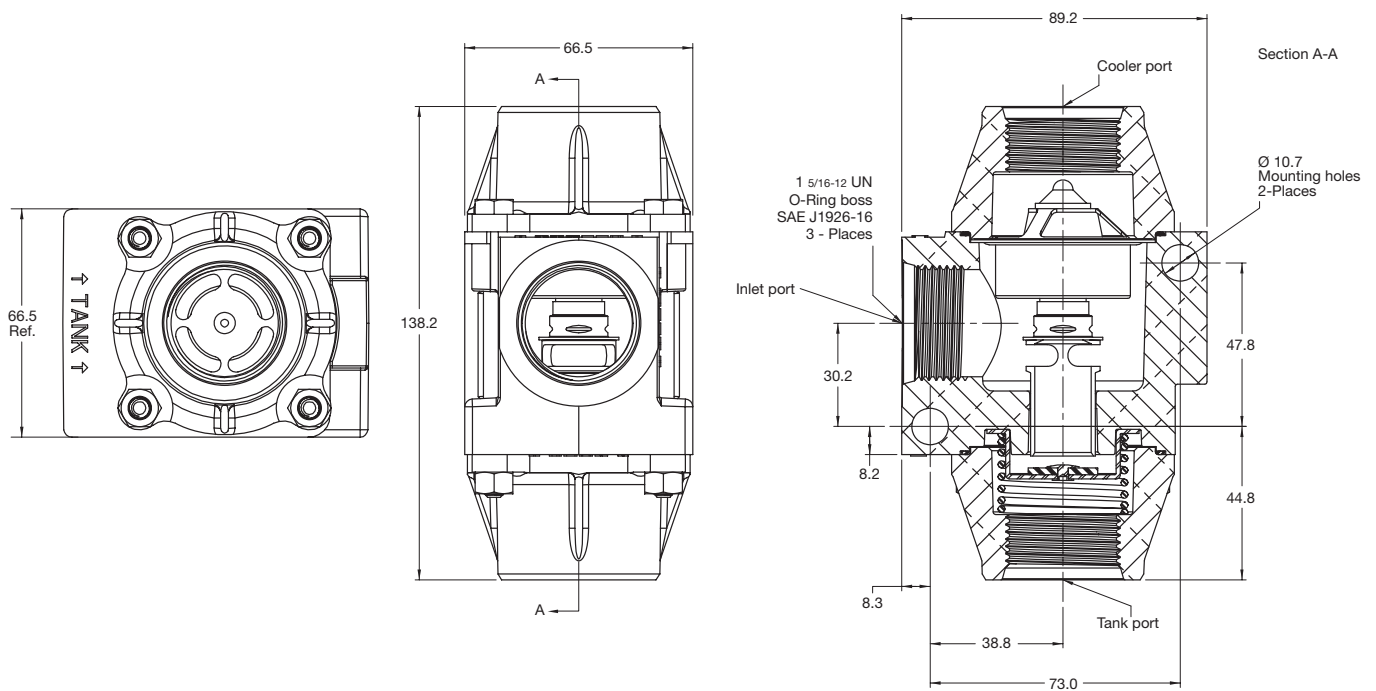


Inlet port over Integral relief valve<sup>®</sup> 77°C  
 Test with oil viscosity 16 cst



**Note:** Pressure drop shown is added to relief valve crack pressure for total pressure drop.

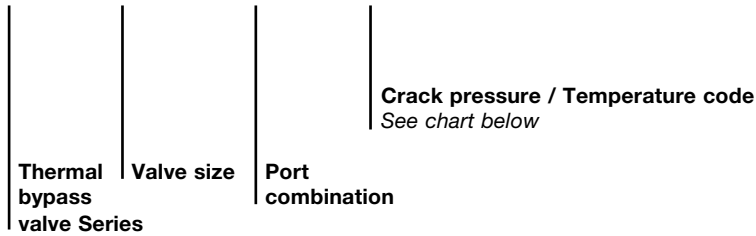
**Dimensions and part numbers**



Thermal valves  
**Thermal bypass valve**

Body size inch	Thread A inch	Part number female body	Weight gr./piece
1"	1 5/16-12 UN	TH-1000-16FO-*	907

**TH - 1000 - 16FO - XX**



Example : TH-1000-16FO-48  
 Indicates 0.28 Mpa relief crack pressure and 60°C shift temperature

**Final dash No. code**

Crack pressure Mpa	Shift temperatures °C				
	38°C	49°C	60°C	71°C	82°C
0.035	-01	-21	-41	-61	-81
0.070	-02	-22	-42	-62	-82
0.105	-03	-23	-43	-63	-83
0.140	-04	-24	-44	-64	-84
0.170	-05	-25	-45	-65	-85
0.210	-06	-26	-46	-66	-86
0.240	-07	-27	-47	-67	-87
0.275	-08	-28	-48	-68	-88
0.310	-09	-29	-49	-69	-89
0.345	-10	-30	-50	-70	-90
0.380	-11	-31	-51	-71	-91
0.415	-12	-32	-52	-72	-92
0.450	-13	-33	-53	-73	-93
0.485	-14	-34	-54	-74	-94
0.520	-15	-35	-55	-75	-95
0.550	-16	-36	-56	-76	-96
0.585	-17	-37	-57	-77	-97

**Note:** For 2" Thermal bypass valve or other thread options, please contact your Parker sales engineer.



# APPENDICES

**FLUID COMPATIBILITY CHART** ..... Page 56

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**CONVERSION FACTORS** ..... Page 64

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## Fluid compatibility chart

The following seal compound and body material compatibility chart is provided as an aid in selecting a specific synthetic rubber compound or body material for a particular application.

Shown here is a list of the seal materials available, with their temperature ranges and the corresponding Parker seal code. Operating and environmental conditions must be considered when making the selection of a quick coupling.

Code used in the part number	Seal material	Temperature range
Without	NBR : Nitrile	-40 + 110°C
W	EPDM : Ethylene Propylene	-50 + 150°C
Y	FKM : Viton™	-25 + 200°C
Z	CR : Neoprene	-50 + 150°C

**To indicate a special material just add the appropriate code letter as a suffix to the part number of the coupler.** It is not necessary to use the code "STD" as the standard NBR ( Nitrile Butadienne Rubber) seal will be used.

For recommendations for media not listed here, please contact your Parker representative.

**Note :** This chart is intended as a guide only and is not to be considered as a recommendation to use Parker quick couplings in a specific application or with a specific fluid. Other factors that must be considered include but are not limited to: fluid and ambient temperature, system pressure, both operating and peaks, frequency of connection and disconnection, and applicable standards or regulations.

Codes: 1 = satisfactory      2 = fair      3 = not recommended      4 = insufficient data available

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR ( Neoprene)
3M FC -75	4	4	4	4	1	1	2	1
Acetamide	4	4	1	2	1	1	3	1
Acetic acid (5%)	3	3	1	1	2	1	1	1
Acetone	1	2	1	1	3	1	3	3
Acetophenone	2	2	2	1	3	1	3	3
Acetyl acetone	2	2	2	2	3	1	3	3
Acetyl chloride	4	2	2	2	3	3	1	3
Acetylene	3	2	1	1	1	1	1	2
Air (100 °C)	1	2	1	1	1	1	1	1
Air (150 °C)	1	2	1	1	2	2	1	2
Air (200 °C)	1	2	1	1	3	3	1	3
Aluminium acetate	4	4	4	4	2	1	3	2
Aluminium bromide	4	4	4	4	1	1	1	1
Aluminium chloride (10%)	3	3	3	3	1	1	1	1
Aluminium chloride (100%)	3	2	2	2	1	1	1	1
Aluminium fluoride	3	3	3	3	1	1	1	1
Aluminium nitrate	3	3	2	2	1	1	1	1
Aluminium salts	4	4	4	4	1	1	1	1
Aluminium sulphate	2	3	2	3	1	1	1	1
Alums (NH3, Cr, K)	4	4	4	4	1	1	3	1
Ammonia (anhydrous)	3	2	1	1	2	1	3	1
Ammonia (cold, gas)	3	2	4	1	1	1	3	1
Ammonia (hot, gas)	3	2	4	1	3	2	3	2
Ammonium carbonate	3	2	3	3	3	1	1	1
Ammonium chloride	3	3	2	3	1	1	1	1
Ammonium hydroxide	3	3	1	2	3	1	3	1
Ammonium nitrate	3	3	1	1	1	1	4	1
Ammonium persulfate solution	3	3	1	2	3	1	4	4
Ammonium phosphate (Mono-, Di-, Tri-basic)	3	3	3	2	1	1	4	1
Ammonium salts	4	4	4	4	1	1	3	1
Ammonium sulphate	3	3	2	3	1	1	3	1
Amyl borate	4	4	4	4	1	3	1	1
Amyl chloride	4	2	1	1	4	3	1	3
Amyl chloronaphtalene	4	4	4	4	3	3	1	3

## Appendices Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR ( Neoprene)
Amyl naphthalene	4	4	4	4	3	3	1	3
Animal oil (lard oil)	2	2	2	2	1	2	1	2
Aroclor 1248	2	3	3	3	3	2	1	3
Aroclor 1254	2	3	3	3	3	2	1	3
Aroclor 1260	2	3	3	3	1	4	1	1
Aromatic fuel -50%	4	4	4	4	2	3	1	3
Arsenic acid	3	3	1	1	1	1	1	1
Asphalt	3	3	1	1	2	3	1	2
ASTM oil, n° 1	1	1	1	1	1	3	1	1
ASTM oil, n° 2	1	1	1	1	1	3	1	2
ASTM oil, n° 3	1	1	1	1	1	3	1	3
ASTM oil, n° 4	1	1	1	1	2	3	1	3
ASTM reference fuel A	3	2	1	1	1	3	1	2
ASTM reference fuel B	3	2	1	1	1	3	1	3
ASTM reference fuel C	3	2	1	1	2	3	1	3
Automotive brake fluid	4	4	4	4	3	1	3	2
Barium chloride	3	3	2	3	1	1	1	1
Barium hydroxide	3	2	2	3	1	1	1	1
Barium salts	4	4	4	4	1	1	1	1
Barium sulphide	3	2	3	3	1	1	1	1
Beer	3	3	1	1	1	1	1	1
Beet sugar liquors	3	3	1	1	1	1	1	2
Benzaldehyde	3	3	2	3	3	1	3	3
Benzene	3	2	3	3	3	3	1	3
Benzenesulfonic acid (10%)	3	3	3	3	3	3	1	2
Benzine	4	4	4	4	1	3	1	2
Benzoic acid	3	3	3	3	3	3	1	3
Benzyl alcohol	4	3	1	2	3	2	1	2
Benzyl chloride	3	3	2	3	3	3	1	3
Bleach liquor	4	4	4	4	3	1	1	2
Borax	3	2	3	3	2	1	1	3
Bordeaux mixture	4	4	4	4	2	1	1	2
Boric acid	3	3	2	3	1	1	1	1
Brake fluid (non-petroleum)	2	2	4	4	3	1	3	2
Brine (sodium chloride)	3	3	1	1	1	1	1	1
Bromine	4	4	4	4	3	3	1	3
Bromine water	4	4	4	4	3	2	1	3
Bunker oil	4	4	4	4	1	3	1	3
Butadiene (monomer)	3	2	1	2	3	3	1	3
Butane	3	1	1	1	1	3	1	1
Butane (2.2 & 2.3-dimethyl)	4	4	4	4	1	3	1	2
Butanol (butyl alcohol)	2	1	1	1	1	2	1	1
Butter (animal fat)	2	3	1	2	1	1	1	2
Butyl butyrate	4	4	4	4	3	1	1	3
Butyl stearate	4	4	4	4	2	3	1	3
Calcine liquors	4	4	4	4	1	1	1	4
Calcium acetate	4	4	4	4	2	1	3	2
Calcium bisulphite	3	3	2	3	2	1	2	2
Calcium carbonate	3	2	3	2	1	1	1	1
Calcium chloride	3	3	2	3	1	1	1	1
Calcium hydroxide	3	3	2	3	1	1	1	1
Calcium hypochlorite	3	3	2	3	2	1	1	2
Calcium salts	4	4	4	4	1	1	1	1
Calcium sulphide	3	3	2	2	1	1	1	1
Caliche liquors	4	4	4	4	1	1	1	1
Cane sugar liquors	4	2	1	1	1	1	1	1
Carbon bisulphide	4	4	4	4	3	3	1	3
Carbon dioxide	1	2	1	1	1	1	1	1
Carbon disulfide	2	2	2	2	3	3	1	3
Carbon monoxide	1	1	1	1	1	1	1	2
Carbon tetrachloride	2	3	1	3	2	3	1	3

Appendices  
**Fluid compatibility chart**

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR ( Neoprene)
Carbon acid	3	3	1	2	2	1	1	1
Castor oil	1	1	1	1	1	2	1	1
Cellugard	4	4	4	4	1	1	1	1
Cellulube (now fyrquel)	4	4	4	4	3	1	1	3
China wood oil (Tung oil)	2	2	1	1	1	3	1	2
Chlorinated salt brine	4	4	4	4	3	3	1	3
Chlorinated solvents	4	4	4	4	3	3	1	3
Chlorobenzene	3	3	2	3	3	3	1	3
Chlorobutadiene	4	4	4	4	3	3	1	3
Chloroform	3	2	2	1	3	3	1	3
Chlorophenol	4	4	4	4	3	3	1	3
Coconut oil	4	4	4	4	1	3	1	3
Copper chloride	4	4	4	4	1	1	1	2
Copper salts	4	4	4	4	1	1	1	1
Copper sulphate	3	3	2	3	1	1	1	1
Corn oil	2	1	1	1	1	3	1	3
Cottonseed oil	3	2	1	2	1	3	1	3
Creosols	3	2	1	2	3	3	1	3
Creosote	3	3	2	1	1	3	1	2
Cresylic acid	4	2	1	2	3	3	1	3
Crude oil	3	2	1	1	2	3	1	3
Cutting oil	4	1	1	1	1	3	1	2
Decane	4	4	4	4	1	3	1	3
Denatured alcohol	4	4	4	4	1	1	1	1
Detergent (water solution)	3	3	1	1	1	1	1	2
Diesel fuel	1	1	1	1	1	3	1	3
Diethylene glycol	3	1	1	1	1	1	1	1
Dimethyl formamide	4	4	1	1	2	1	3	3
Dow chemical HD50-4	4	4	4	4	4	1	3	2
Dow corning 200, 510, 550	4	4	4	4	2	1	1	1
Dowtherm A, E	3	1	2	2	3	3	1	3
Ethanol	1	3	3	3	3	1	3	1
Ethyl chloride	2	3	1	3	1	3	1	3
Ethyl hexanol	4	4	4	4	1	1	1	1
Ethylene dichloride	3	3	1	2	3	3	1	3
Ethylene glycol	2	2	1	2	1	1	1	1
Fatty acids	3	3	1	2	2	3	1	2
Freon 11	1	4	4	4	2	3	2	3
Freon 12	1	1	3	1	2	3	1	1
Freon 22	1	3	1	1	3	3	3	1
Fuel oil	3	1	1	1	1	3	1	2
Gallic acid	3	3	2	2	2	2	1	2
Gas, liquid, propane (LPG)	1	3	1	1	1	3	1	2
Gas, natural	2	3	1	1	1	3	1	1
Gasoline / petrol	1	2	1	1	1	3	1	3
Gelatine	3	3	1	1	1	1	1	1
Glucose	1	1	1	1	1	1	1	1
Glycerine (glycerol)	2	1	1	1	1	1	1	1
Glycols	3	2	2	2	1	1	1	1
Green sulphate liquor	3	3	3	3	2	1	1	2
Gulf – FR fluid emulsion	4	4	4	4	1	3	1	2
Gulf – FR fluid G	4	4	4	4	1	1	1	1
Gulf – FR fluid P	4	4	4	4	3	2	2	3
Helium	1	1	1	1	1	1	1	1
Heptane	1	1	1	1	1	3	1	2
Hydraulic oil (petroleum base)	1	1	1	1	1	3	1	1
Hydraulic oil (water base)	4	1	1	1	2	1	3	2
Hydrazine	4	3	1	1	2	1	3	2
Hydrogen gas	2	2	1	1	1	1	1	1
Hydrolube	4	4	4	4	1	1	1	2
Iso octane	1	1	1	1	1	3	1	2

## Appendices Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR (Neoprene)
Isobutyl alcohol	4	4	1	1	2	1	1	1
Isopropyl alcohol	1	1	2	1	2	1	1	2
Isopropyl ether	1	1	1	1	2	3	3	3
JP3 and JP4	1	1	1	1	1	3	1	3
Kerosene	1	1	1	1	1	3	1	2
Lard (animal fat)	1	1	1	1	1	2	1	2
Linseed oil	3	1	1	1	1	3	1	3
Lubricating oil SAE 10, 20, 30, 40,50	1	1	1	1	1	3	1	2
Magnesium salts	4	4	4	4	1	1	1	1
Magnesium sulphate	3	3	2	2	1	1	1	1
Mercury	3	3	1	1	1	1	1	1
Methane	1	3	1	1	1	3	1	2
Methanol	1	1	1	1	1	1	3	1
Methyl bromide	4	1	1	1	2	3	1	3
Methyl chloride (wet)	1	3	1	3	3	3	1	3
Methyl chloride (dry)	2	3	1	1	3	3	1	3
Methyl ether	4	4	4	4	1	3	1	3
Methyl ethyl ketone (MEK)	1	1	1	1	3	1	3	3
MIL-F81912 (JP-9)	1	1	1	1	3	3	1	3
MIL-H-5606	1	1	1	1	1	3	1	2
MIL-H-6083	1	1	1	1	1	3	1	1
MIL-H-7083	1	1	1	1	1	1	2	2
MIL-H-8446 (MLO-8515)	2	1	1	1	2	3	1	1
MIL-L-2104 & 2104B	1	1	1	1	1	3	1	2
MIL-L-7808	3	2	1	1	2	3	1	3
Milk	2	1	1	1	1	1	1	1
Mineral oils	1	1	1	1	1	3	1	2
MLO-7277 and MLO-7557	2	1	1	1	3	3	1	3
Mobile HF	1	1	1	1	1	3	1	2
Monomethyl hydrazine	4	4	4	4	2	1	4	2
Naphtha (coal or petroleum)	2	1	2	2	2	3	1	3
Naphthalene	2	1	2	2	3	3	1	3
Naphthenic acid	2	1	2	2	2	3	1	3
Neatsfoot oil	4	4	4	4	1	2	1	3
Nickel acetate	3	2	1	1	2	1	3	2
Nickel chloride	3	3	2	2	1	1	1	2
Nickel salts	4	4	4	4	1	1	1	2
Nickel sulphate	3	3	1	1	1	1	1	1
Nitrogen	1	1	1	1	1	1	1	1
Nitrous oxide	2	2	2	1	1	4	4	4
Octyl alcohol	1	1	1	1	2	3	1	2
Olive oil	2	1	1	1	1	2	1	2
Ortho-dichlorobenzene	2	2	2	2	3	3	1	3
Oxalic acid	3	3	2	1	2	1	1	2
Oxygen (100-200 °C)	1	1	1	1	3	3	2	3
Oxygen (cold)	1	1	1	1	2	1	1	1
Ozone	3	3	1	1	3	1	1	3
Palmitic acid	1	2	1	1	1	2	1	2
Para-dichlorobenzene	2	1	1	2	3	3	1	3
Parker O-Lube	1	1	1	1	1	3	1	1
Peanut oil	2	1	1	1	1	3	1	3
Pentane (2-3 methyl & 2-4 dimethyl)	2	2	2	2	1	3	1	2
Perchloric acid - 2N	3	3	2	2	3	2	1	2
Perchloroethylene	3	2	2	2	2	3	1	3
Petrolatum	1	1	1	1	1	3	1	2
Petroleum oil (below 120 °C)	1	1	1	1	1	3	1	2
Phenol	1	1	1	1	3	3	1	3
Phosphoric acid (3 molar)	3	3	2	2	1	1	1	2
Phosphoric acid (concentrated)	3	3	2	2	3	1	1	3
Phosphorous trichloride	3	3	1	1	3	1	1	3
Picric acid (molten)	3	3	2	2	2	2	1	2

## Appendices Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR ( Neoprene)
Picric acid (water solution)	3	3	2	2	1	1	1	1
Pine oil	2	2	1	2	1	3	1	3
Plating solutions (chrome)	1	3	1	1	4	1	1	3
Plating solutions (other)	4	1	1	1	1	1	1	3
Pneumatic service	1	1	1	1	1	1	1	1
Potassium acetate	2	1	2	2	2	1	3	2
Potassium chloride	3	3	1	2	1	1	1	1
Potassium cyanide	3	2	2	2	1	1	1	1
Potassium dichromate	3	1	2	2	1	1	1	1
Potassium hydroxide (50%)	3	2	1	2	2	1	3	2
Potassium nitrate	2	1	1	1	1	1	1	1
Potassium salts	4	4	4	4	1	1	1	1
Potassium sulphate	3	2	1	1	1	1	1	1
PRL - high temp. hydr. oil	4	4	4	4	2	3	1	2
Producer gas	2	1	1	1	1	3	1	2
Propane	1	3	1	1	1	3	1	2
Propyl acetate	3	1	1	1	3	2	3	3
Propyl alcohol	1	1	1	1	1	1	1	1
Propylene	1	1	1	1	3	3	1	3
Pydraul 10E	3	1	1	1	3	1	3	3
Pydraul A-200 (C series)	3	1	1	1	3	3	1	3
Pydraul (3 series)	3	1	1	1	3	1	1	3
Pyrogard 42, 43, 53, 55 (phosphate ester)	4	4	4	4	3	1	1	3
Pyrogard D	4	4	4	4	1	3	3	2
Sea water (salt water)	2	3	1	1	1	1	1	2
Shell irus 905	4	4	4	4	1	3	1	2
Silicone greases	1	1	1	1	1	1	1	1
Silver nitrate	3	3	1	2	2	1	1	1
Skydrol 500 (type 2)	3	1	1	1	3	1	3	3
Skydrol 7000 (type 2)	3	1	1	1	3	1	2	3
Soap solutions	3	3	1	1	1	1	1	2
Sodium acetate	1	1	1	1	2	1	3	2
Sodium bicarbonate	2	2	1	1	1	1	1	1
Sodium bisulphate or bisulphite	3	3	2	1	1	1	1	1
Sodium borate	3	2	2	2	1	1	1	1
Sodium carbonate	4	1	1	1	1	1	1	1
Sodium chloride	3	2	2	2	1	1	1	1
Sodium cyanide	3	1	1	1	1	1	4	1
Sodium hydroxide	3	2	1	2	2	1	2	2
Sodium hydroxide (50%)	3	3	1	2	2	1	2	2
Sodium metaphosphate	2	1	2	2	1	1	1	2
Sodium nitrate	3	2	1	1	2	1	4	2
Sodium perborate	3	3	1	1	2	1	1	2
Sodium peroxide	3	1	2	2	2	1	1	2
Sodium phosphates	1	3	2	1	1	1	1	2
Sodium salts	4	4	4	4	1	1	1	2
Sodium sulphate	3	2	1	1	1	1	1	1
Sodium sulphite & sulphide	3	3	2	3	1	1	1	1
Sodium thiosulphate	3	3	1	2	2	1	1	1
Soybean oil	2	1	1	1	1	3	1	3
Stannous chloride (15 %)	3	3	2	3	1	1	1	1
Steam (below 200 °C)	1	3	1	1	3	1	3	3
Stoddard solvents	2	1	1	1	1	3	1	2
Sucrose solutions	1	1	1	1	1	1	1	2
Sulphur	2	1	1	1	3	1	1	1
Sulphur liquors	1	1	1	1	2	2	1	2
Sulphur (molten)	3	3	1	1	3	3	1	3
Sulphur dioxide (dry)	3	1	1	3	3	1	3	3
Sulphur trioxide (dry)	2	2	2	3	3	2	1	3
SunSAFE	3	1	1	1	1	3	1	2
Tannic acid (10%)	1	3	2	3	1	1	1	2

## Appendices Fluid compatibility chart

Media	Body material				Seal material			
	Brass	Steel	316 S.S.	303 S.S.	NBR (Nitrile)	EPDM (EP)	FKM (Viton™)	CR ( Neoprene)
Tar (bituminous)	2	1	1	1	2	3	1	3
Tartaric acid	2	3	3	2	1	2	1	2
Terpineol	4	4	4	4	2	3	1	3
Tertiary butyl alcohol	1	1	1	1	2	2	1	2
Tetrachloroethane	4	2	1	2	3	3	1	3
Tetrachloroethylene	3	2	2	4	3	3	1	3
Tetraethyl lead	1	1	1	1	2	3	1	2
Tetraethyl lead (blend)	1	1	1	1	2	3	1	3
Titanium tetrachloride	2	1	2	3	2	3	1	3
Toluene	1	1	1	1	3	3	1	3
Transformer oil	1	1	1	1	1	3	1	2
Transmission fluid (type A)	1	1	1	1	1	3	1	2
Trichloroethane	4	2	1	4	3	3	1	3
Trichloroethylene	3	2	2	2	3	3	1	3
Tricresyl phosphate	4	1	2	2	3	1	2	3
Turbine oil #15 (MIL-L-7808A)	4	2	1	1	2	3	1	3
Turpentine	3	2	1	1	1	3	1	3
Varnish	1	1	1	1	2	3	1	3
Water	1	3	1	1	1	1	2	2
Whiskey	1	3	1	1	1	1	1	1
Wine	1	3	1	1	1	1	1	1
Wood oil	4	2	1	1	1	3	1	2
Xylene	1	2	1	1	3	3	1	3
Zinc sulphate	3	3	2	2	1	1	1	1

## SAFETY GUIDE FOR SELECTING AND USING QUICK ACTION COUPLINGS AND RELATED ACCESSORIES



**DANGER:** failure or improper selection or improper use of quick action couplings or related accessories can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of quick action couplings or related accessories include but are not limited to:

- Couplings or parts thrown off at high speed
- High velocity fluid discharge
- Contact with suddenly moving or falling objects that are to be held in position or moved by the conveyed fluid
- Dangerously whipping hose
- Explosion or burning of the conveyed fluid
- Contact with conveyed fluids that may be hot, cold, toxic, or otherwise injurious
- Sparking or explosion while paint or flammable liquid spraying

Before selecting or using any Parker quick action couplings or related accessories, it is important that you read and follow the following instructions.

### 1.0 GENERAL INSTRUCTIONS

**1.1 Scope:** this safety guide provides instructions for selecting and using (including installing connecting, disconnecting, and maintaining) quick action couplings and related accessories (including caps, plugs, blow guns). This safety guide is a supplement to and is to be used with the specific Parker publications for the specific quick action couplings and related accessories that are being considered for use.

**1.2 Fail-Safe:** quick action couplings or the hose they are attached to can fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the quick action coupling or hose will not endanger persons or property.

**1.3 Distribution :** provide a copy of this safety guide to each person who is responsible for selecting or using quick action coupling products. Do not select or use quick action couplings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.

**1.4 User responsibility:** due to the wide variety of operating conditions and uses for quick action couplings, Parker and its distributors do not represent or warrant that any particular quick action coupling is suitable for any specific end use system. This safety guide does not analyse all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the quick action couplings.
- Assuring that the user's requirements are met and that the use presents no health or safety hazards.
- Providing all appropriate health and safety warnings on the equipment on which the quick action couplings are used.

**1.5 Additional questions:** call the appropriate Parker customer service department if you have any questions or require any additional information. For the telephone numbers of the appropriate customer service department, see the Parker publication for the product being considered or used.

### 2.0 QUICK ACTION COUPLINGS SELECTION INSTRUCTIONS

**2.1 Pressure:** quick action couplings selection must be made so that the published rated pressure of the coupling is equal to or greater than the maximum system pressure. Pressure surges in the system higher than the rated pressure of the coupling will shorten the quick action coupling's life. Do not confuse burst pressure or other pressure values with rated pressure and do not use burst pressure or other pressure values for this purpose.

**2.2 Fluid compatibility:** quick action couplings selection must assure compatibility of the body and seal materials with the fluid media used. See the fluid compatibility chart.

**2.2 Temperature:** be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the quick action couplings. Use caution and hand protection when connecting or disconnecting quick action couplings that are heated or cooled by the media they are conducting or by their environment.

**2.4 Size:** transmission or power by means of pressurised liquid varies with pressure and rate of flow. The size of the quick action couplings and other components of the system must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

**2.5 Pressurised connection or disconnection:** if connecting or disconnecting under pressure is a requirement, use only quick action couplings designed for that purpose. The rated operating pressure of a quick action coupling may not be the pressure at which it may be safely connected or disconnected.

**2.6 Environment:** care must be taken to ensure that quick action couplings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, ozone, moisture, water, salt water, chemicals, and air pollutants can cause degradation and premature failure.

**2.7 Locking means:** ball locking quick action couplings can unintentionally disconnect if they are dragged over obstructions on the end of a hose or if the sleeve is bumped or moved enough to cause disconnection. Sleeves designed with flanges to provide better



gripping for oily or gloved hands are especially susceptible to accidental disconnection and should not be used where these conditions exist. Sleeve lock or union (threaded) sleeve designs should be considered where there is a potential for accidental uncoupling.

**2.8 Mechanical loads:** external forces can significantly reduce quick action couplings' life or cause failure. Mechanical loads which must be considered include excessive tensile or side loads, and vibration. Unusual applications may require special testing prior to quick action couplings selection.

**2.9 Specifications and standards:** when selecting quick action couplings, government, industry, and Parker specifications must be reviewed and followed as applicable.

**2.10 Vacuum:** not all quick action couplings are suitable or recommended for vacuum service. Quick action couplings used for vacuum applications must be selected to ensure that the quick action couplings will withstand the vacuum and pressure of the system.

**2.11 Fire resistant fluids:** some fire resistant fluids require seals other than the standard NBR (nitrile) used in many quick action couplings.

**2.12 Radiant heat:** quick action couplings can be heated to destruction or loss of sealing without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the quick action couplings.

**2.13 Welding and brazing:** heating of plated parts, including quick action couplings and port adapters, above 450 °F (232 °C) such as during welding, brazing, or soldering may emit deadly gases and may cause coupling seal damage.

### 3.0 QUICK ACTION COUPLINGS INSTALLATION INSTRUCTIONS

**3.1 Pre-installation inspection:** before installing a quick action coupling, visually inspect it and check for correct style, body material, seal material, and catalogue number. Before final installation, coupling halves should be connected and disconnected with a sample of the mating half with which they will be used.

**3.2 Quick action coupling halves from other manufacturers:** if a quick action coupling assembly is made up of one Parker half and one half from another manufacturer, the lowest pressure rating of the two halves should not be exceeded.

**3.3 Fitting installation:** use a thread sealant, when assembling taper pipe thread joints in quick action couplings. Be sure the sealant is compatible with the system fluid or gas. To avoid system contamination, use a liquid or paste type sealant rather than a tape style. Use the flats provided to hold the quick action coupling when installing fittings. Do not use pipe wrenches or a vice on other parts of the coupling to hold it when installing or a removing fittings as damage or loosening of threaded joints in the coupling assembly could result. Do not apply excessive torque to taper pipe threads because cracking or splitting of the female component can result.

**3.4 Caps and plugs:** use dust caps and plugs when quick action couplings are not coupled to exclude dirt and contamination and to protect critical surfaces from damage.

**3.5 Coupling location:** locate quick action couplings where they can be reached for connection or disconnection without exposing the operator to slipping, falling, getting sprayed, or coming in contact with hot or moving parts.

**3.6 Hose whips:** use a hose whip (a short length of hose between the tool and the coupling half) instead of rigidly mounting a coupling half on hand tools or other devices. This reduces the potential for coupling damage if the tool is dropped and provides some isolation from mechanical vibration which could cause uncoupling.

### 4.0 QUICK ACTION COUPLINGS MAINTENANCE INSTRUCTIONS

**4.1** Even with proper selection and installation, quick action coupling life may be significantly reduced without a continuing maintenance program. Frequency should be determined by the severity of the application and risk potential. A maintenance program must be established and followed by the user and must include the following as a minimum:

**4.2 Visual inspection of quick action couplings:** any of the following conditions require immediate shut down and replacement of the quick action coupling:

- Cracked, damaged, or corroded quick action couplings parts.
- Leaks at the fitting, valve or mating seal.
- Broken coupling mounting hardware, especially breakaway clamps.

**4.3 Visual inspection all other:**

- Leaking seals or port connections.
- Excess dirt build-up on the coupling locking means or on the interface area of either coupling half.
- Defective clamps, guards, and shields.
- System fluid level, fluid type and any entrapment.

**4.4 Functional test:** operate the system at maximum operating pressure and check for possible malfunctions and freedom from leaks. Personnel must avoid potential hazardous areas while testing and using the system.

**4.5 Replacement intervals:** specific replacement intervals must be considered based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage or injury risk. See instruction 1.2 above.

## Dimensions

Size of the unit	Tube O/D mm	Tube O/D inch	Dimensions
4	6	1/4	In (") x 25.4 = mm mm ÷ 25.4 = In (")
5	8	5/16	
6	10	3/8	
8	12	1/2	
10	16	5/8	
12	20	3/4	
16	25	1	
20	32	1 1/4	
24	40	1 1/2	
32	50	2	

## Weight

Weight
Weight in LB x 453.59 = Weight in grams Weight in grams ÷ 453.59 = Weight in LB

## Flow rate

l/min	UK GPM	US GPM	Flow rate
1	0.2	0.26	l/min x 0.219976 = gal/min (UK) l/min x 0.264218 = gal/min (US)
15	3.3	3.96	
30	6.6	7.93	
45	9.9	11.89	
100	22.0	26.42	
250	55.0	66.05	
500	110.0	132.11	
1000	220.0	264.22	

## Pressure

Bar	Mpa	PSI	Pressure
1	0.1	14.5	bar x 14.5038 = PSI 1 Mpa = 10 bars
6	0.6	87.0	
10	1.0	145.0	
15	1.5	217.5	
20	2.0	290.0	
30	3.0	435.0	
50	5.0	725.0	
100	10.0	1 450.5	
200	20.0	2 900.5	
250	25.0	3 625.0	
500	50.0	7 252.0	
700	70.0	10 152.5	
1000	100.0	14 503.5	
1500	150.0	21 755.0	

## Material

Designations used in the catalogue	NF. EN 10088-3	
	Numerical	Symbolical
AISI 302	1.4301	X5 Cr Ni 18-10
AISI 303	1.4305	X8 Cr Ni S 18-9
AISI 316	1.4401	X5 Cr Ni Mo 17-12-2
AISI 316 L	1.4404	X2 Cr Ni Mo 17-12-2
AISI 316 L	1.4435	X2 Cr Ni Mo 18-14-3

Temperature

°F → °C	°F → °C	°C → °F	°C → °F
-40 -40.0	+105 +40.6	-40 -40	+105 +221
-35 -37.2	+110 +43.3	-35 -31	+110 +230
-30 -34.4	+115 +46.1	-30 -22	+115 +239
-25 -31.7	+120 +48.9	-25 -13	+120 +248
-20 -28.9	+125 +51.7	-20 -4	+125 +257
-15 -26.1	+130 +54.4	-17.8 0	+130 +266
-10 -23.3	+135 +57.2	-15 +5	+135 +275
-5 -20.6	+140 +60.0	-10 +14	+140 +284
0 -17.8	+145 +62.8	-5 +23	+145 +293
+5 -15.0	+150 +65.6	0 +32	+150 +302
+10 -12.2	+155 +68.3	+5 +41	+155 +311
+15 -9.4	+160 +71.1	+10 +50	+160 +320
+20 -6.7	+165 +73.9	+15 +59	+165 +329
+25 -3.9	+170 +76.7	+20 +68	+170 +338
+30 -1.1	+175 +79.4	+25 +77	+175 +347
+32 0.0	+180 +82.2	+30 +86	+180 +356
+35 +1.7	+185 +85.0	+35 +95	+185 +365
+40 +4.4	+190 +87.8	+40 +104	+190 +374
+45 +7.2	+195 +90.6	+45 +113	+195 +383
+50 +10.0	+200 +93.3	+50 +122	+200 +392
+55 +12.8	+205 +96.1	+55 +131	+205 +401
+60 +15.6	+210 +98.9	+60 +140	+210 +410
+65 +18.3	+215 +101.7	+65 +149	+215 +419
+70 +21.1	+220 +104.4	+70 +158	+220 +428
+75 +23.9	+225 +107.2	+75 +167	+225 +437
+80 +26.7	+230 +110.0	+80 +176	+230 +446
+85 +29.4	+235 +112.8	+85 +185	+235 +455
+90 +32.2	+240 +115.6	+90 +194	+240 +464
+95 +35.0	+245 +118.3	+95 +203	+245 +473
+100 +37.8	+250 +121.1	+100 +212	+250 +482

Temperature  
 $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $(^{\circ}\text{F} - 32) \div 1.8 = ^{\circ}\text{C}$

**BSPP thread (ISO 1179-1 / DIN 3852-T2)**

O-Ring with Retaining Ring

Thread G	Series	Tube O/D mm	Assembly torque Nm +10% -0
G 1/8A	L	6	18
G 1/4A	L	8	35
	L	10	35
G 3/8A	L	12	70
G 1/2A	L	15	90
	L	18	90
G 3/4A	L	22	180
G 1A	L	28	310
G 1 1/4A	L	35	450
G 1 1/2A	L	42	540
G 1/4A	S	6	55
	S	8	55
G 3/8A	S	10	80
	S	12	80
G 1/2A	S	14	115
	S	16	115
G 3/4A	S	20	180
G 1A	S	25	310
G 1 1/4A	S	30	450
G 1 1/2A	S	38	540

**Note :** Lubricate threads before assembly. Tightening torques are for steel fittings assembled in steel components.

**Metric thread (ISO 6149 / DIN 3852 -T3)**

Series	Thread mm	Assembly torque Nm +10% -0
L	M8x1	8
L	M10x1	15
L	M12x1.5	25
L	M14x1.5	35
L	M16x1.5	40
L	M18x1.5	45
L	M22x1.5	60
L	M27x2	100
L	M33x2	160
L	M42x2	210
L	M48x2	260
L	M60x2	315
S	M8x1	10
S	M10x1	20
S	M12x1.5	35
S	M14x1.5	45
S	M16x1.5	55
S	M18x1.5	70
S	M22x1.5	100
S	M27x2	170
S	M33x2	310
S	M42x2	330
S	M48x2	420
S	M60x2	500

**Note :** Lubricate threads before assembly. Tightening torques are for steel fittings assembled in steel components.

**NPTF thread**

Thread inch	TFFT*
1/8-27	2 - 3
1/4-18	2 - 3
3/8-18	2 - 3
1/2-14	2 - 3
3/4-14	2 - 3
1-11 1/2	1.5 - 2.5
1 1/4-11 1/2	1.5 - 2.5
1 1/2-11 1/2	1.5 - 2.5
2-11 1/2	1.5 - 2.5

\* Turn From Finger Tight: The proper method of assembling tapered threaded connectors is to assemble them finger tight and then wrench tighten further to the specified number of turns from finger tight (TFFT). Assembly Turns From Finger Tight values for steel, stainless steel and brass fittings.

**UNF thread (SAE J 1926/1, ISO 11926)**

Size of the unit	Thread inch	Assembly torque Nm +10% -0
2	5/16-24 UNF - 2B	10
3	3/8-24 UNF - 2B	19
4	7/16-20 UNF - 2B	25
5	1/2-20 UNF - 2B	30
6	9/16-18 UNF - 2B	37
8	3/4-16 UNF - 2B	65
10	7/8-14 UNF - 2B	122
12	1 1/16-12 UN - 2B	150
14	1 3/16-12 UN - 2B	197
16	1 5/16-12 UN - 2B	217
20	1 5/8-12 UN - 2B	305
24	1 7/8-12 UN - 2B	340
32	2 1/2-12 UN - 2B	440

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2O54G4X4	10	4V14D6X6	14	4V54D7X5	14	5205-4M	15	DT-1250-MOMS-5	50
2V54D6X4	10	4V14D7X3	14	4V54D7X6	14	5209-4M	15	DT-1250-MSMO-5	50
2V54D6X5	10	4V14D7X5	14	4V54E6X2	15	5676L6X4K	43	DT-1250-MSMS-5	50
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2V54G4X3	10	4V14E6X3	15	4V54E6X5	15	9404-T5X4S2	23	DT-370-MSMO-5	50
2V54G4X4	10	4V14E6X4	10, 12, 15	4V54E6X6	15	9454-F8H6S2	25	DT-370-MSMS-5	50
2V54G4X6	10	4V14E6X4MCHA	40	4V54E7X3	15	9454-U5X9S2	25	DT-500-MFMF-5	49
2V54G8X6	10	4V14E6X5	12, 15	4V54E7X4	15	9809-018-B	29	DT-500-MMMS-5	49
3V54D6X4	11	4V14E6X5MCHA	40	4V54E7X6	15	9809-018-J	29	DT-500-MOMS-5	50
3V54D6X4MCH	40	4V14E6X6	15	4V54F4B3	13	9809-018-M	29	DT-500-MSMO-5	50
3V54D6X5	11	4V14E7X3	15	4V54F4B4	13	9809-018-N	29	DT-500-MSMS-5	50
3V54D6X5MCH	40	4V14E7X4	15	4V54G0Z4	13	9809-018-R	29	DT-750-MFMF-5	49
3V54E6X4	12	4V14E7X6	15	4V54G4X3	13	9809-018-V	29	DT-750-MOMS-5	50
3V54E6X5	12	4V14F4B3	11, 13	4V54G4X4	13	CFE-1002-P	33	DT-750-MSMO-5	50
3V54F4B3	11	4V14F4B4	11, 13	4V54G4X6	13	CFE-252-P	33	DT-750-MSMS-5	50
3V54F4B4	11	4V14G0Z4	10, 13	4V54G8X5	13	CFE-372-P	33	FEM-1001-20FB	32
3V54G4X3	11	4V14G4X3	10, 11, 13	4V54G8X6	13	CFE-502-P	33	FEM-1002-20FB	32
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3V54G8X6	11	4V14G4X6	10, 13	4V54T5X4	14	CFE-752-P	33	FEM-252-4FB	32
4050-29PF	5	4V14G8X5	13	4V54T5X5	14	CIA-1002-P	6	FEM-371-16BMCL	33
4128F002C	6, 23, 25	4V14G8X6	10, 11, 13	4V54X5X3	14	CIA-252-P	6	FEM-371-16MCL	32
4250-29PF	6	4V14T5X3	14	4V54X5X4	14	CIA-372-P	6	FEM-371-18BMCL	33
4O14G0Z4	10, 13	4V14T5X4	14	5005-4	15	CIA-502-P	6	FEM-371-18MCL	32
4O14G4X4	10, 13	4V14T5X5	14	5009-4	15	CIA-752-P	6	FEM-371-22BMCL	33
4O14G4X6	13	4V14X5X3	14	5010-29PF	5	DAC Series	27	FEM-371-22MCL	32
4O54G0Z4	13	4V14X5X4	14	5025-3PR	15	DAR Series	26	FEM-371-6FB	32
4O54G4X4	13	4V53D6X2	14	5025-4PB	15	DCP4-SD	16	FEM-371-8FB	32
4O54G4X6	13	4V53D6X3	14	5025-4PBL	15	DCP-500	29	FEM-372-16BMCL	33
4V13D6X2	14	4V53D7X3	14	5025-4PG	15	DCP-555	29	FEM-372-16MCL	32
4V13D6X3	14	4V53E6X2	15	5025-4PO	15	DCP-572	29	FEM-372-18BMCL	33
4V13D7X3	14	4V53E6X3	15	5025-4PR	15	DCP-582	29	FEM-372-18MCL	32
4V13E6X2	15	4V53F4B3	13	5025-4PY	15	DFE-371-P	33	FEM-372-22BMCL	33
4V13E6X3	15	4V53G4X3	13	5029-3PR	15	DFE-501-P	16, 33	FEM-372-22MCL	32
4V13F4B3	13	4V54D6X2	14	5029-4PB	15	DFE-621-P	33	FEM-372-6FB	32
4V13G4X3	13	4V54D6X3	14	5029-4PBL	15	DFE-751-P	33	FEM-372-8FB	32
4V14D6X2	14	4V54D6X4	14	5029-4PG	15	DT-1000-MFMF-5	49	FEM-501-12FB	32
4V14D6X3	14	4V54D6X5	14	5029-4PO	15	DT-1000-MOMS-5	50	FEM-501-18BMCL	33
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FEM-501-22BMCL	33	JT020230S0604	20	PD322	46	QHPA14-D6X5	19	QHPA54-D7X5A	19
FEM-501-22MCL	32	JT060022S0604	20	PD323	46	QHPA14-D7X5A	19	QHPA54-D7X6A	19
FEM-501-8FB	32	JT060044N0552	16	PD341	46	QHPA14-D7X6A	19	QHPA54-DP	20
FEM-502-12FB	32	JT060056S0604	20	PD342	46	QHPA14-DC	20	QHPA54-E6X4	19
FEM-502-18BMCL	33	JT080112N0300	6	PD343	46	QHPA14-E6X4	19	QHPA54-E6X5	19
FEM-502-18MCL	32	JT080115N0300	6	PD346	46	QHPA14-E6X5	19	QHPA54-E7X6A	19
FEM-502-22BMCL	33	JT080123N0300	6	PD34BTL	46	QHPA14-E7X6A	19	QHPA54-F4A4	20
FEM-502-22MCL	32	JT080126N0300	6, 20	PD351	46	QHPA14-F4A4	20	QHPA54-G4X4	20
FEM-502-8FB	32	JT090231N0674	20	PD361	46	QHPA14-G4X4	20	QHPA56-D6X6	19
FEM-621-12FB	32	LV14E6X5MLX	36	PD363	46	QHPA16-D6X6	19	QHPA56-D6X7	19
FEM-622-12FB	32	LV54D6X5MLXC	36	PD367-1A	46	QHPA16-D6X7	19	QHPA56-D7X7A	19
FEM-751-16FB	32	MACH 5400303	40	PD36BTL	46	QHPA16-D7X7A	19	QHPA56-D7X8A	19
FEM-751-26BMCL	33	MACH 7980035	40	PD36BTX	47	QHPA16-D7X8A	19	QHPA56-DP	20
FEM-751-26MCL	32	MACH 8900213	40	PD38BTL	46	QHPA16-DC	20	QHPA56-E6X6	19
FEM-751-30BMCL	33	MACH 8900214	40	PD6	47	QHPA16-E6X6	19	QHPA56-E7X7A	19
FEM-751-30MCL	32	MACH 8900226	40	PFE-1001-P	33	QHPA16-E7X7A	19	QHPA56-E7X8A	19
FEM-752-16FB	32	MACH 8900227	40	PFE-251-P	33	QHPA16-E7X8A	19	QHPA56-G4X6	20
FEM-752-26BMCL	33	MACH A	40	PFE-371-P	33	QHPA16-G4X6	20	QHPA56-G4X8	20
FEM-752-26MCL	32	MACH F08767030	40	PFE-501-P	33	QHPA16-G4X8	20	QHPA58-D7X10A	19
FEM-752-30BMCL	33	MACH2-IA-B	36	PFE-621-P	33	QHPA18-D7X10A	19	QHPA58-D7X9A	19
FEM-752-30MCL	32	MACH2-IA-P	36	PFE-751-P	33	QHPA18-D7X9A	19	QHPA58-DP	20
IA-1001-16FB	5	MACH4/715LB	39	PIA-1001-P	6	QHPA18-DC	20	QHPA58-E7X10A	19
IA-1002-16FB	5	MACH4/715LBE	39	PIA-251-P	6	QHPA18-E7X10A	19	QHPA58-E7X9A	19
IA-251-4FB	5	MACH4/715LT	39	PIA-371-P	6	QHPA18-E7X9A	19	RMD Series	26
IA-252-4FB	5	MACH4/715LTE	39	PIA-501-P	6	QHPA23-6	20	TH-1000-16FO-XX	54
IA-371-6FB	5	MACH5/715LB	39	PIA-751-P	6	QHPA24-6	20		
IA-372-6FB	5	MACH5/715LBE	39	Power Beyond Rigid		QHPA28-6	20		
IA-501-8FB	5	MACH5/715LT	39	Couplings	27	QHPA53-D6X2	19		
IA-502-8FB	5	MACH5/715LTE	39	QHPA13-D6X2	19	QHPA53-D6X3	19		
IA-751-12FB	5	MACH6/715LB	39	QHPA13-D6X3	19	QHPA53-D7X3A	19		
IA-752-12FB	5	MACH6/715LBE	39	QHPA13-D7X3A	19	QHPA53-D7X4A	19		
JT020017N0674	20	MACH6/715LT	39	QHPA13-D7X4A	19	QHPA53-DP	20		
JT020112N0674	6	MACH6/715LTE	39	QHPA13-DC	20	QHPA53-E6X2	19		
JT020115N0674	6	MACH7B	39	QHPA13-E6X2	19	QHPA53-E6X3	19		
JT020117N0552		MACH7T	39	QHPA13-E6X3	19	QHPA53-E7X3A	19		
	6, 16, 23, 25, 36	PD222	45	QHPA13-E7X3A	19	QHPA53-E7X4A	19		
JT020123N0674	6	PD242	45	QHPA13-E7X4A	19	QHPA53-F4A3	20		
JT020126N0674	6, 20	PD243	45	QHPA13-F4A3	20	QHPA53-G4X3	20		
JT020138N0674	20	PD260	45	QHPA13-G4X3	20	QHPA54-D6X4	19		
JT020223S0604	20	PD312BTX	47	QHPA14-D6X4	19	QHPA54-D6X5	19		



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