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CHRYSLER

Project Book for Bosch Rexroth Pneumatic Products

Rexroth

Bosch Group

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<http://BoschRexroth.com/fpt-cpt>

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<http://supplierinfo.fptpowertrain.com/index.php>
<https://gsp.extra.chrysler.com/mfg/amedd/powertrain.htm>

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Revision Date	Version No.	Document Name	Revision	Paragraph Affected	Revised By
10/01/2010	1.0	PT_TS_FL_Bosch Rexroth Pneumatics.doc	Initial Release	All	Brian Rogers
2/11/2011	1.1	PT_TS_FL_Bosch Rexroth Pneumatics.doc	Update 4.4 from Series WV02 to Series CD02-AL ISO 15407-1 Valves Change Series HF03LG p/n's to non-locking manual overrides Correct p/n on Series CD02-PI 5/2 bi-stable vlv.	P. 15 P. 18 p. 19	Brian Rogers
7/1/2011	1.2	PT_TS_FL_Bosch Rexroth Pneumatics.doc	Update to new FP Logo & wording format Removal of E Line Guide Variant of RTC Addition of AS Series Filter Regulators	All p. 27 p. 7	Brian Rogers
6/8/2012	1.3	PT_TS_FL_Bosch Rexroth Pneumatics.doc	Additional 40 micro F/R Updated speed controls valves Changed CC valve to OC, added intermediate plate Removed externally piloted valves, added single subbases for all ISO sizes Changed CC valves to OC valve Removed duplicate tubing lines	P. 3.8 P. 3.21 P. 4.4 P. 4.6 P. 4.7 P. 4.11	Pete Lucci
7/1/2013	1.4	PT_TS_FL_Bosch Rexroth Pneumatics.doc	Updated Fiat Logo		Greg Brayan

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1.0 INTRODUCTION

1.1 SCOPE OF DOCUMENT:

This document contains product information to be used for the selection of components for FP-CPT programs. This document provides a basic guide to selecting the correct type of lubrication system for the correct application. It also provides the necessary contact information to assist in application engineering, program management review, and stocking locations for ease of purchasing.

All information contained in this document is superseded by the requirements of the FP-CPT Global Specification.

A current, and accurate, copy of the specification can be obtained from the following web addresses:

<http://supplierinfo.fptpowertrain.com/index.php>

<https://gsp.extra.chrysler.com/mfg/amedd/powertrain.htm>

1.2 PRODUCT OVERVIEW

The Bosch Rexroth components which are recommended for new Powertrain programs are listed on the following pages. For additional information on Bosch Rexroth Industrial Pneumatic components please see the Websites listed in the section below a contact person to help you in your region.

2.0 TECHNICAL SUPPORT AND SALES CONTACTS

	NORTH AMERICA	EUROPE	FPT- EUROPE	CPT – N. AMERICA
Company	Bosch Rexroth Corp.	Bosch Rexroth S.p.A.	Fiat Powertrain Technologies S.p.A.	
Address	2730 Research Dr. Rochester Hills, MI 48309 U.S.A.	Strada del Drosso n.37/15 10135 Torino Italia	Corso Settembrini, 167 10135 Turin (Italy)	
Phone	(248) 267-4058	+49-511-2136-233	+39 01 1 0033099	
Website	http://www.boschrexroth-us.com	http://www.boschrexroth.it		https://gsp.extra.chrysler.com/mfg/amedd/control/index.htm
Local Support Office	Greg Brayan	Roberto Teragni	Mauro Falletti	
Mobile	(248) 267-4058	+39 011 3285944		
Fax	(248) 672-5254	+39 348 7809514		
	(248) 853-2035	+39 011 3285953 Centralino		



E-Mail	greg.brayan@boschrexroth-us.com	roberto.teragni@boschrexroth.it	mauro.falletti@fptpowertrain.com

3.0 AIR PREPARATION

All AS Series Air Preparation components using Mounting Flange Kit in 3.14 to ISO 11791-1, G Thread Ports

3.1 DRIP LEGS, ISO 1179-1, G Thread Ports

	Drip Legs, ISO 1179-1, G Thread Ports, G3/8 Drain Port All Models		For CPT use only Note: Not TSSA Certified for Canada
	Inlet and Outlet Port Size G 1/2	R432031274	
	Inlet and Outlet Port Size G 3/4	R432031275	
	Inlet and Outlet Port Size G 1	R432031276	
	Inlet and Outlet Port Size G 1 1/2	R432031277	
	Inlet and Outlet Port Size G 2	R432031278	

3.2 LOCKOUT VALVES, ISO 1179-1 G Thread Ports (except exhaust port) w/padlock bracket

		Lockout Valves, capable of being locked in the off position only, G Thread Ports	
		G 1/4 In-Out, G3/8 exhaust	R432030228
		G3/8 in-Out, G3/8 exhaust	R432009366
		G1/2 In-Out, G3/4 exhaust	R432009367
		G3/4 In-Out, G1 1/4 exhaust	R432009368
		G1 In-Out, G1 1/4 exhaust	R432009369
		G 1 1/2 In-Out, G 2 exhaust	R432031279
		G 2 In-Out, G2 exhaust	R432031280

3.3 SERIES AS, 3/2 VALVES

		3/2 way shut off valve lockable Series AS	Catalog link
		3/2 way shut off valve lockable AS2-BAV G 1/4"	R412006256
		3/2 way shut off valve lockable AS2-BAV G 3/8"	R412006257
		3/2 way shut off valve lockable AS2-BAV G 3/8"	R412007260



		3/2 way shut off valve lockable AS3-BAV G 1/2"	R412007261
		3/2 way shut off valve lockable AS3-BAV G 3/4"	R412009260
		3/2 way shut off valve lockable AS5-BAV G 1"	R412009261

3.4 PARTICULATE FILTERS, 5 Micron, with metal bowl and auto drain

		Air Filter Series AS	Catalog link
		Filter AS2-FLS G1/4 5um automatic drain, metal bowl	R412006007
		Filter AS2-FLS G3/8 5um automatic drain, metal bowl	R412006016
		Filter AS2-FLS G3/8 5um automatic drain, metal bowl	R412007007
		Filter AS2-FLS G1/2 5um automatic drain, metal bowl	R412007016
		Filter AS2-FLS G3/4 5um automatic drain, metal bowl	R412009007
		Filter AS2-FLS G 1 5um automatic drain, metal bowl	R412009016

3.5 PARTICULATE FILTERS, G1½ & G2, 8 - 40 Micron, with metal bowl and auto drain

		Air Filter Series MU1	Not modular, no assembly kit available, assembly through nipples Catalog link
		Filter, series MU1-FLS, 1 1/2", not modular, 40 um, semiautomatic drain, 25 bar maximum pressure	R412007599
		Filter, series MU1-FLS, 2", not modular, 8 um, semiautomatic drain, 25 bar maximum pressure	R412006571



3.6 PRE FILTERS, 0.3 Micron, with metal bowl and auto drain

		Pre Filter Series AS	Catalog link
		Pre Filter AS2-FLP G1/4 0,03um automatic drain, metal bowl	R412006025


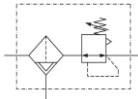


	Pre Filter AS2-FLP G3/8 0,03um automatic drain, metal bowl	R412006034
	Pre Filter AS3-FLP G3/8 0,03um automatic drain, metal bowl	R412007025
	Pre Filter AS3-FLP G1/2 0,03um automatic drain, metal bowl	R412007034
	Pre Filter AS5-FLP G3/4 0,03um automatic drain, metal bowl	R412009025
	Pre Filter AS5-FLP G 1 0,03um automatic drain, metal bowl	R412009034

3.7 COALESCING FILTERS, 0.1 MICRON, with Metal Bowl and auto drain

		Coalescing Filter Series AS	Catalog link
		Micro Filter AS2 FLC G1/4" 0,01um automatic drain, metal bowl	R412006061
		Micro Filter AS2 FLC G3/8" 0,01um automatic drain, metal bowl	R412006070
		Micro Filter AS3 FLC G3/8" 0,01um automatic drain, metal bowl	R412007061
		Micro Filter AS3-FLC G1/2" 0,01um automatic drain, metal bowl	R412007070
		Micro Filter AS5-FLC G3/4" 0,01um automatic drain, metal bowl	R421009025
		Micro Filter AS5-FLC G 1" 0,01um automatic drain, metal bowl	R412009034


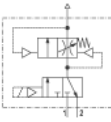
3.8 FILTER REGULATORS, 5 and 40 Micron with Metal Bowl and auto drain

		Filter Regulators, Series AS	Catalog link
		Series AS2 FRE G1/4, metal bowl with auto drain, 5 u	R412006182
		Series AS2 FRE G3/8, metal bowl with auto drain, 5u	R412006191
		Series AS2 FRE G1/4, metal bowl with auto drain, 40u	R432036767
		Series AS2 FRE G3/8, metal bowl with auto drain, 40u	R432036768
		Series AS3 FRE G 3/8, metal bowl with auto drain, 5u	R412007182
		Series AS3 FRE G1/2, metal bowl with auto drain, 5u	R412007191
		Series AS3 FRE G 3/8, metal bowl with auto drain, 40u	R432036769
		Series AS3 FRE G1/2, metal bowl with auto drain, 40u	R432036770
Series AS5 FRE G 3/4, metal bowl with auto drain, 5u	R421009182		




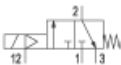
		Series AS2 FRE G 1 metal bowl with auto drain, 5u	R412009191
		Series AS5 FRE G 3/4, metal bowl with auto drain, 40u	R432036771
		Series AS2 FRE G 1 metal bowl with auto drain, 40u	R432036772

3.9 SOFT START VALVE



		Filling unit (electric on -off valve plus soft start valve) 24VDC, M12 Connector, Series AS	Catalog link
		Filling unit, series AS2-SSU G1/4 24VDC, adjustable filling, AS2-SSU-G014-3/2-024-M12-FIS-INT	R412006288
		Filling unit, series AS2-SSU G3/8 24VDC, adjustable filling, AS2-SSU-G038-3/2-024-M12-FIS-INT	R412006294
		Filling unit, series AS3-SSU G3/8 24VDC, adjustable filling, AS3-SSU-G038-3/2-024-M12-FIS-INT	R412007295
		Filling unit, series AS3-SSU G1/2 24VDC, adjustable filling, AS3-SSU-G012-3/2-024-M12-FIS-INT	R412007288
		Filling unit, series AS5-SSU G3/4 24VDC, adjustable filling, AS5-SSU-G034-3/2-024-M12-FIS-INT	R412009274
		Filling unit, series AS5-SSU G1 24VDC, adjustable filling, AS5-SSU-G100-3/2-024-M12-FIS-INT	R412009288



3.10 ELECTRIC ON-OFF VALVE, M12 Connector

		3/2 on-off valve, electrically operated 24VDC, M12 connector, Series AS	Catalog link
		3/2 on-off valve series AS2-SOV 24VDC G 1/4, exhaust G 1/4	R412006291
		3/2 on-off valve series AS2-SOV 24VDC G 3/8, exhaust G 1/4	R412006293
		3/2 on-off valve series AS2-SOV 24VDC G 3/8, exhaust G 1/2	R412007294
		3/2 on-off valve series AS3-SOV 24VDC G 1/2, exhaust G 1/2	R412007291
		3/2 on-off valve series AS5 24VDC G 3/4, exhaust G 1/2	R412009297
		3/2 on-off valve series AS5 24VDC G1, exhaust G 1/2	R412009291



3.11 AIR REGULATORS, Inline type, with relieving, reverse flow capability

		Pressure regulator series AS 0 - 1 MPa	Catalog link
		Pressure regulator AS2-RGS G 1/4, range 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412006108
		Pressure regulator AS2-RGS G 1/4, range 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412006104
		Pressure regulator AS2-RGS 3/8 range, 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412006116
		Pressure regulator AS3-RGS 3/8 range, 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412007104
Pressure regulator AS3-RGS 1/2, range 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412007116		


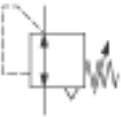


		Pressure regulator AS5-RGS 3/4, range 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412009104
		Pressure regulator AS5-RGS G 1, range 0.2 - 4 bar (.02 - 0.4) Mpa, without pressure gauge	R412009116

3.12 AIR REGULATORS, Inline type, G1½ & G2 with relieving, reverse flow capability

 		Pressure regulator series MU1 0 - 1 MPa	Not modular, no assembly kit available, assembly through nipples Catalog link
		Pressure regulator MU1-RGS not modular G 1 1/2, range 0.5 - 16 bar (0-1 MPa max working pressure 2,5 Mpa)	R402000233
		Pressure regulator MU1-RGS not modular G 2, range 0. - 16 bar (0-1 MPa max working pressure 2,5 Mpa)	R402000233

3.13 PRECISION PRESSURE REGULATORS, SERIES AS

 		Precision pressure regulators series AS	Catalog link
		Precision pressure regulator series AS2-RGP G 1/4, range 0.2 - 4 bar, (.02 - 0.4 Mpa)	R412006140
		Precision pressure regulator series AS2-RGP G 3/8, range 0.2 - 4 bar, (.02 - 0.4 Mpa)	R412006152
		Precision pressure regulator series AS3-RGP G 3/8, range 0.2 - 4 bar, (.02 - 0.4 Mpa)	R412007140
		Precision pressure regulator series AS3-RGP G 1/2, range 0.2 - 4 bar, (.02 - 0.4 Mpa)	R412007152
		Precision pressure regulator series AS5-RGP G 3/4, range 0.2 - 4 bar, (.02 - 0.4 Mpa)	R412009104
		Precision pressure regulator series AS5-RGP G 1, range 0.2 - 4 bar, (.02 - 0.4 Mpa)	R412009116

3.14 PRECISION PRESSURE REGULATORS, SERIES PR1

		Precision pressure regulators series PR1	Not modular, no assembly kit available, assembly through nipples Catalog link
--	--	---	--



		Precision pressure regulator series PR1 1/4" range 0-0,3 Mpa	0821302173
		Precision pressure regulator series PR1 1/4" range 0-0,5 Mpa	0821302565
		Precision pressure regulator series PR1 1/4" range 0-0,7 Mpa	0821302566
		Precision pressure regulator series PR1 3/8" range 0-0,3 Mpa	0821302567
		Precision pressure regulator series PR1 3/8" range 0-0,5 Mpa	0821302554
		Precision pressure regulator series PR1 3/8" range 0-0,7 Mpa	0821302555




3.15 DISTRIBUTION BLOCKS






		Distributor series AS	Catalog link
		Distributor, Series AS2-DIS, G 1/4, 3-way	R412006250
		Distributor, Series AS2-DIS, G 3/8, 3-way	R412006251
		Distributor, Series AS3-DIS, G 3/8, 4-way	R412007250
		Distributor, Series AS3-DIS, G 1/2, 4-way	R412007251
		Distributor, Series AS3-DIS, G 3/4, 2-way	R421009250
		Distributor, Series AS3-DIS, G 1, 2-way	R412009251

3.16 MOUNTING AND ASSEMBLY MATERIAL FOR AS SERIES AIR PREPARATION:




		Mounting and assembly material series AS2 (G1/4")	Catalog link
		Assembly bracket for component AS2	R412006371





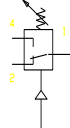

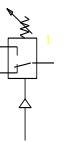
		Assembly bracket for component AS2 with holes	R412006370
		Assembly bracket for component AS2 to mount on external sides	R412006366
		Mounting Bracket on panel AS2	R412006368

		Mounting and assembly material series AS3 (G1/2")	Catalog link
		Assembly bracket for component AS3	R412007371
		Assembly bracket for component AS3 with holes	R412007370
		Assembly bracket for component AS3 to mount on external sides	R412007367
		Mounting Bracket on panel AS3	R412007368
		Mounting and assembly material series AS5 (1")	Catalog link
		Assembly bracket for component AS5	R412009371







		Assembly bracket for component AS5 with holes	R412009370
		Assembly bracket for component AS5 to mount on external sides	R412009367
		Mounting Bracket on panel AS5	R412009368

3.17 PRESSURE GAUGES:


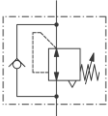
		Pressure gauges	Catalog link
		CPT Version: Series PG1-SAS-ADJ 50mm dia., adjustable work area; red + green, with scale in bar/psi 0-10 bar, 0-150 psi	R412007871
		FP Version: Manometer 40mm dia. with scale in bar/Mpa 0-10 bar, 0-1,2 Mpa	R987072873
		Adjustable pressure switch	Catalog link
		Direct coupling to AS Series Air Preparation Modules, PNP / NPN, display available in bar, psi, kPa, inHg	R4210079**
		Digital pressure switch adjustable 0-1.6 MPa (display available in bar, psi, MPa)	Catalog link
		Digital display, G1/4" pneumatic connection, M12 electrical connection, 1xPNP output, adjustable 0-1.6 MPa	0821100103
		Digital display, G1/4" pneumatic connection, M12 electrical connection, 2xPNP output, adjustable 0-1.6 MPa	0821100107




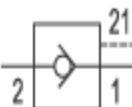
3.18 SILENCERS

		Silencers	Catalog link
		silencer Series SI1, G 1/4 metal braiding	R412010245
		silencer Series SI1, G 3/8 metal braiding	R412010246
		silencer Series SI1, G 1/2 metal braiding	R412010247
		silencer Series SI1, G 3/4 metal braiding	R412010248
		silencer Series SI1, G 1 metal braiding	R412010249
		Silencers	Catalog link
		silencer Series SL1, M5 sintered bronze	1827000006
		silencer Series SL1, G 1/8 sintered bronze	1827000000
		silencer Series SL1, G 1/4 sintered bronze	1827000001
		silencer Series SL1, G 3/8 sintered bronze	1827000002
		silencer Series SL1, G 1/2 sintered bronze	1827000003
		silencer Series SL1, G 3/4 sintered bronze	1827000004
silencer Series SL1, G 1 sintered bronze	1827000005		

3.19 IN-PORT PRESSURE REGULATORS

		In-Port Pressure Regulators	Air saver, use to reduce pressure on no-load return stroke Catalog link
		Input Ø 6, Output G 1/8	0821302086
		Input Ø 8, Output G 1/8	0821302087


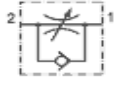
3.20 NON RETURN VALVES PILOT OPERATED

		Non return valves pilot operated	Catalog link
		Non return valve pneumatically operated, threaded connection 1/8"	0821003045
		Non return valve pneumatically operated, threaded connection 1/4"	0821003046



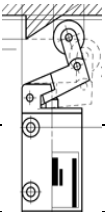
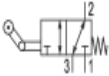
		Non return valve pneumatically operated, threaded connection 3/8"	0821003047
		Non return valve pneumatically operated, threaded connection 1/2"	0821003048

3.21 SPEED CONTROL VALVE

		Speed Controller valve	Catalog link
		Throttle non-return valve G1/2" - T.ø12	R412010578
		Throttle non-return valve G3/8" - T.ø10	R412010575
		Throttle non-return valve G1/4" - T.ø8	R412010572
		Throttle non-return valve G1/8" - T.ø6	R412010569

4.0 DIRECTIONAL CONTROL VALVES

4.1 SINGLE VALVE MECHANICAL PILOTING, SERIES ST/550:

		Single valve mechanical piloting series ST/550	Catalog link
		Pneumatic Valve 3/2 ST series roller lever G1/8"	0820402003



	Pneumatic Valve 5/2 ST series roller lever G1/8"	0820403003
	Pneumatic Valve 3/2 550 series G1/8" with red color key switch	R987343149 SPECIAL PRODUCT
	Pneumatic Valve 5/2 G1/8" with red color key switch	R987340631 SPECIAL PRODUCT

4.2 PNEUMATIC PART PRESENT SENSING, ISO, SERIES MS01:

		Pneumatic Part Present Sensing, Series MS01	On/off sensing function, saves air when not sensing, cleaning function. Catalog link
		MS01 Module	R421011545
		MS01 Manifold Block, up to 8 sensors	R412011***




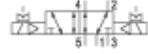

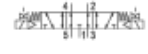



4.3 SINGLE VALVE PNEUMATIC PILOTING, SERIES TC:

		Single valve pneumatic piloting series TC	Use only with prior approval through FPT/CPT by deviation Catalog link
		TC08 Pneumatic valve 5/2 , pneumatic return G1/8"	0820260001
		TC08 Pneumatic valve 5/2 , spring return G1/8"	0820260002
		TC15 Pneumatic valve 5/2 , pneumatic return G1/4"	0820258001
		TC15 Pneumatic valve 5/2 , spring return G1/4"	0820258002






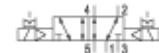
4.4 SERIES CDO2-PA, ISO 15407-1, 18 MM

		Solenoid Valve ISO 15407-1 M12 connector Series CD02-AL 18mm 24VDC - Flow rate 450 NL/min.	Catalog link
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		Solenoid valve 2x3/2 NC, internal pilot	7472D02817
		Solenoid valve 5/2 monostable spring return	R422000306
		Solenoid valve 5/2 bi stable	7472D02832
		Solenoid valve 5/3 open centers	7472D02817
		Single Plate for valve size 18 mm	1825503890
		End plates kit for manifold assembly	1825503892
		Intermediate Plate	1825503891




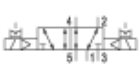
4.5 SERIES CD01-PA, ISO 15407-1, 26mm

		Solenoid Valve ISO 15407-1 M12 connector Series CD01-PA 26mm 24VDC - Flow rate 1000 NL/min	Catalog link
		Solenoid valve 2x3/2 NC, internal pilot	5763990720
		Solenoid valve 5/2 monostable spring return	5763510720
		Solenoid valve 5/2 bi stable	5763520720





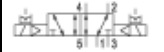


		Solenoid valve 5/3 open centers	5763810720
		Single Plate for valve size 26 mm	8985121052
		Single Plate for valve size 26 mm G 1/4 air connection: Input/Output/Exhaust	1825A04016
		Intermediate manifold plate G 1/4 air connection; ports 2 and 4 on side	1825504023
		End Plate left side for manifold assembly	8985121002
		End Plate right side for manifold assembly	8985121012
		Manifold of valves series CD01 All options possible within manifolds (like e.g. pressure regulators, blanking plates, blanking discs to separate pressure, are available into the valve configurator	see configurator





4.6 SERIES 581, ISO 5599-1, SIZE 1-3

		Solenoid Valve ISO 5599-1 Size 1 24VDC - Series 581- Flow rate 1400 NL/min.	Internal Pilot
		Solenoid valve 5/2 monostable spring return	R404062617
		Solenoid valve 5/2 bi stable	R404062622




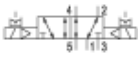

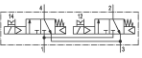

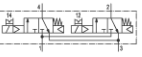




		Solenoid valve 5/3 exhaust centers	R404062624
		Solenoid valve 5/3 pressure centers	R404062626
		Solenoid Valve ISO 5599-1 Size 2 24VDC - Series 581- Flow rate 2700 NL/min.	Internal Pilot
		Solenoid valve 5/2 monostable spring return	R404062620
		Solenoid valve 5/2 bi stable	R404062628
		Solenoid valve 5/3 exhaust centers	R404062630
		Solenoid valve 5/3 pressure centers	R404062632
		Solenoid Valve ISO 5599-1 Size 3 24VDC - Series 581- Flow rate 4800 NL/min.	Internal Pilot
		Solenoid valve 5/2 monostable spring return	5813110720
		Solenoid valve 5/2 bi stable	5813220720
		Solenoid valve 5/3 exhaust centers	5813520720








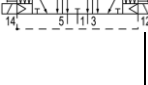

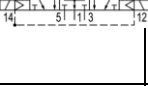

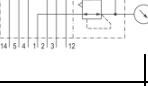

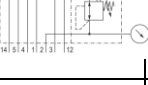

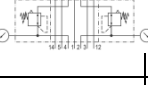


		Solenoid valve 5/3 pressure centers	5813720720
		Single sub base for ISO1/ISO 2/ ISO 3, threaded connections on bottom	1825503201/1825503202/1825503203
		Manifolds ISO1/2/3 valves	see configurator + iq database for M12 version

4.7 SERIES HF03LG, 16MM, FLOW RATE 750 NL/min.

		Manifolds of valves with serial interface 16 mm Series HF03LG 24VDC - Flow rate 750 NL/min.	
		Solenoid valve 5/2 Monostable spring return	0820055052
		Solenoid valve 5/2 bi stable	0820055502
		Solenoid valve 2x3/2 NC	0820055102
		Solenoid valve 5/3 open centers	0820055102
		Bus module Profibus DP	R412008516
		Complete valve manifold	see configurator



4.8 SERIES CD02-PI, ISO 15407-2, 18MM

		Solenoid Valve ISO 15407-2 Series CD02-PI 18mm 24VDC - Flow rate 650 NL/min.	Catalog link
		Solenoid valve 5/2 monostable spring return	R412011039
		Solenoid valve 5/2 bi stable	R412011035
		Solenoid valve 5/3 exhaust centers	R412011063
		Solenoid valve 5/3 pressure centers	R412011891
		Pressure regulator for vertical stacking Controlled connection 1	R412011102
		Pressure regulator for vertical stacking Controlled connection 2	R412011102
		Pressure regulator for vertical stacking	R412011105
		Single subbase, ISO 15407-2, Frame size: 18mm	R412011099
		Complete valve manifold (Complete valve manifolds can be obtained through valve configurator, you can choose between multipole as bus versions, every manifold can reach 24 coils/valve positions, all manifolds are to follow PROFIBUS or PROFINET)	see configurator



4.9 SERIES CD01-PA, ISO 15407-2, 26MM

		Solenoid Valve ISO 15407-2 Series CD01-PA 26mm 24VDC - Flow rate 1350 NL/min.	Single valve to be used as a spare part (manifolds are obtained through valve configurator with only one code) Catalog link
		Solenoid valve 5/2 monostable spring return	R412009885
		Solenoid valve 5/2 bi stable	R412009881
		Solenoid valve 5/3 exhaust centers	R412011005
		Solenoid valve 5/3 pressure centers	R412011893
		Pressure regulator for vertical stacking Controlled connection 1	R412005888
		Pressure regulator for vertical stacking Controlled connection 2 / 4	R412011079 / R412011080
		Pressure regulator for vertical stacking Controlled connection 2 / 4	R412005889
		Single subbase, ISO 15407-2, Frame size: 26mm	R412005886







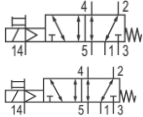

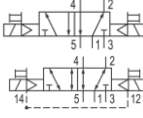

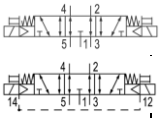

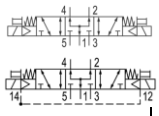

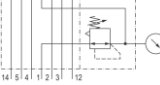

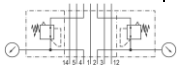

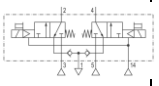


		<p>Complete valve manifold (Complete valve manifolds can be obtained through valve configurator, you can choose between multipole as bus versions, every manifold can reach 24 coils/valve positions, all manifolds are to follow PROFIBUS or PROFINET)</p>	<p>see configurator</p>
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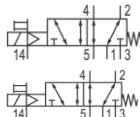

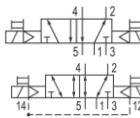

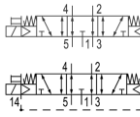

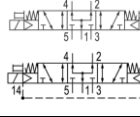

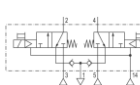



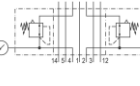

4.10 SERIES CD 10,20,30 (Formally 261 SERIES),ISO 5599-2, SIZE 1-3

		<p>Solenoid Valve ISO 5599-2 Series 261 ISO Size 10,20,30 24VDC - Flow rate 1400 NL/min.</p>	<p>Internal Pilot / External Pilot Single valve to be used as a spare part (manifolds are obtained through valve configurator with only one code) Catalog link</p>
		Solenoid valve 5/2 monostable spring return	2611081100 / 2611091100
		Solenoid valve 5/2 bi stable	2611081200 / 2611209200
		Solenoid valve 5/3 exhaust centers	2611081400 / 2611081410
		Solenoid valve 5/3 pressure centers	2611081500 / 2611091500
		Solenoid valve 2x3/2 NC	2611091800 / 2611091820
		Single subbase, ISO 5599-2, ISO Size 1, G 1/4 side ports	2621701110
		Sandwich regulator, control on port 1	2621803000




		Sandwich regulator, control on port 2/4	2621804000
		Complete valve manifold (Complete valve manifolds can be obtained through valve configurator, you can choose between multipole as bus versions, every manifold can reach 24 coils/valve positions, all manifolds are to follow PROFIBUS or PROFINET)	see configurator
		Solenoid Valve ISO 5599-2 Series CD 20 replaces 261 ISO Size 2, 24VDC - Flow rate 2700 NL/min.	Internal Pilot / External Pilot (Single valve to be used as a spare part (manifolds are obtained through valve configurator with only one code) Catalog link)
		Solenoid valve 5/2 monostable spring return	2612081100 / 2612091100
		Solenoid valve 5/2 bi stable	2612081200 / 2612091200
		Solenoid valve 5/3 exhaust centers	2612081400 / 2612091400
		Solenoid valve 5/3 pressure centers	2612081500 / 2612091500
		Sandwich regulator, control on port 1	2622803000
		Sandwich regulator, control on port 2/4	2622804000
		Single subbase, ISO 5599-2, ISO Size 2, G 3/8 side ports	2622701100





		<p>Complete valve manifold (Complete valve manifolds can be obtained through valve configurator, you can choose between multipole as bus versions, every manifold can reach 24 coils/valve positions, all manifolds are to follow PROFIBUS or PROFINET per Chrysler Specs</p>	<p>see configurator</p>
		<p>Solenoid Valve ISO 5599-2 Series CD 30 replaces 261 ISO Size 3, 24VDC - Flow rate 4800 NL/min.</p>	<p>Internal Pilot / External Pilot (Single valve to be used as a spare part (manifolds are obtained through valve configurator with only one code) Catalog link</p>
		<p>Solenoid valve 5/2 monostable spring return</p>	<p>2613081100 / 2613091100</p>
		<p>Solenoid valve 5/2 bi stable</p>	<p>2613081200 / 2613091200</p>
		<p>Solenoid valve 5/3 exhaust centers</p>	<p>2613081400 / 2613091400</p>
		<p>Solenoid valve 5/3 pressure centers</p>	<p>2613081500 / 2613091500</p>
		<p>Single subbase, ISO 5599-2, ISO Size 3, G 1/2 side ports</p>	<p>2623701100</p>
		<p>Sandwich regulator, control on port 1</p>	<p>2623803000</p>
		<p>Sandwich regulator, control on port 2/4</p>	<p>2623804000</p>
		<p>Complete valve manifold (Complete valve manifolds can be obtained through valve configurator, you can choose between multipole as bus versions, every manifold can reach 24 coils/valve positions, all manifolds are to be PROFIBUS or PROFINET</p>	<p>see configurator</p>



4.11 TUBING, POLYURETHANE

		Tubing SERIES TU	Catalog link
			
		Blue Polyurethane Tubing 25m Ø4	1820712030
		Blue Polyurethane Tubing 100m Ø4	1820712036
		Blue Polyurethane Tubing 25m Ø6	1820712032
		Blue Polyurethane Tubing 100m Ø6	1820712037
		Blue Polyurethane Tubing 25m Ø8	1820712033
		Blue Polyurethane Tubing 100m Ø8	1820712038
		Blue Polyurethane Tubing 25m Ø10	1820712035
		Blue Polyurethane Tubing 100m Ø10	1820712039
		Blue Polyurethane Tubing 25m Ø12	1820712034
		Blue Polyurethane Tubing 100m Ø12	1820712040


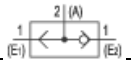

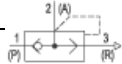

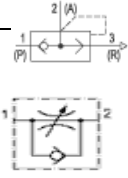
4.12 TUBE FITTINGS, WITH ISO 228G THREADS AND ELASTOMER SEALS, ISO 16030

		One-touch Fittings (G Thread Type) SERIES QR1	Catalog link
			
		Male connector 1/8" tube 4	2121004180
		Male connector 1/8" tube 6	2121006180
		Male connector 1/4" tube 4	2121004140
		Male connector 1/4" tube 6	2121006140
		Male connector 1/4" tube 8	2121008140
		Male connector 1/4" tube 10	2121010140
		Male connector 3/8" tube 6	R412005000
		Male connector 3/8" tube 8	2121008380
		Male connector 3/8" tube 10	2121010380
		Male connector 3/8" tube 12	2121012380
		Male connector 1/2" tube 12	2121012120
		Male elbow M5 tube 4	2122004050
		Male elbow 1/8" tube 4	2122004180
		Male elbow 1/8" tube 6	2122006180
		Male elbow 1/4" tube 4	2122004140
		Male elbow 1/4" tube 6	2122006140
		Male elbow 1/4" tube 8	2122008140




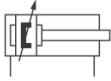

	Male elbow 1/4" tube 10	2122010140
	Male elbow 3/8" tube 6	R412005092
	Male elbow 3/8" tube 8	2122008380
	Male elbow 3/8" tube 10	2122010380
	Male elbow 3/8" tube 12	2122012380
	Male elbow 1/2" tube 12	2122012120

4.13 SHUTTLE, QUICK EXHAUST, FLOW CONTROL VALVES





		Shuttle Valve	Catalog link
		Shuttle Valve 1/8"	5342010100
		Shuttle Valve 1/4"	5340170100
		Quick Exhaust Valve	Catalog link
		Quick Exhaust Valve 1/8"	5735040000
		Quick Exhaust Valve 1/4"	5735040100
		Speed controller	Catalog link
		Speed controller G1/8"	0821200009
		Speed controller G1/4"	0821200005
		Speed controller G3/8"	0821200014
		Speed controller G1/2"	0821200003

5.0 CYLINDERS


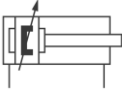
5.1 SERIES OCT to ISO 6432

		ISO Cylinder according to ISO 6432 SERIES OCT Ø10 - 25	standard stroke: 10,25,50,80,100,125,160, 200,250,320,400,500	
		Ø10 double acting single rod magn.	R480052...	see web catalog link
		Ø12 double acting single rod magn. air cushion.	R4800495..	
		Ø16 double acting single rod magn. air cushion.	5283110...	
		Ø20 double acting single rod magn. air cushion.	5284110...	
		Ø25 double acting single rod magn. air cushion.	5285110...	
		Rear Clevis SERIES OCT		
		for types Ø 10	1827001447	
		for types Ø 12-16	1827001446	



		for types Ø 20-25	1827001445	
		Flange SERIES OCT		
		for types Ø 10	1821036012	
		for types Ø 12-16	1821036011	
		for types Ø 20-25	1821036010	
		Foot SERIES OCT		
		for types Ø 10	1821332029	1 pcs.
		for types Ø 12-16	1821332028	
		for types Ø 20-25	1821332027	
		Double Knuckle Joint SERIES OCT		
		for types Ø 10	1822122028	with pin and locking clips
		for types Ø 12-16	1822122009	
		for types Ø 20	1822122010	
		for types Ø 25	1822122024	
		Ball eye rod end SERIES OCT		
		for types Ø 10	1822124000	
		for types Ø 12-16	1822124001	
		for types Ø 20	1821124002	
		for types Ø 25	1822124003	

5.2 SERIES PRA/TRB CYLINDERS ACCORDING TO ISO 15552




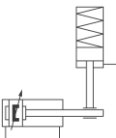


		Cylinder according to ISO 15552 (ISO6431/VDMA24562) SERIES PRA/PRB Ø32 - 125 (Profile) SERIES TRB Ø32 - 250 (Tie Rod)	standard stroke: 25,50,80,100,125,160, 200,250,320,400,500	Catalog link
		Ø 32 double acting single rod magn. air cushioning	0822120...	
		Ø 40 double acting single rod magn. air cushioning	0822121...	
		Ø 50 double acting single rod magn. air cushioning	0822122...	
		Ø 63 double acting single rod magn. air cushioning	0822123...	
		Ø 80 double acting single rod magn. air cushioning	0822124...	
		Ø 100 double acting single rod magn. air cushioning	0822125...	
		Ø 125 double acting single rod magn. air cushioning	08223560..	






		Ø 32 double acting double rod magn. air cushioning	08223505..				
		Ø 40 double acting double rod magn. air cushioning	08223515..				
		Ø 50 double acting double rod magn. air cushioning	08223525..				
		Ø 63 double acting double rod magn. air cushioning	08223535..				
		Ø 80 double acting double rod magn. air cushioning	08223545..				
		Ø 100 double acting double rod magn. air cushioning	08223555..				
		Ø 125 double acting single rod magn. air cushioning	08223062..				
		Ø 160 double acting single rod magn. air cushioning	08223072..				
		Ø 200 double acting single rod magn. air cushioning	08223082..				
		Ø 250 double acting single rod magn. air cushioning	08223092..				
		SERIES TRB Ø32 - 250 (Tie Rod) with Rod Holder Unit	standard stroke: 25,50,80,100,125,160, 200,250,320,400,500				
		Ø 32 double acting single rod magn. air cushioning	08229008..		see configurator		
		Ø 40 double acting single rod magn. air cushioning	08229018..				
		Ø 50 double acting single rod magn. air cushioning	08229028..				
		Ø 63 double acting single rod magn. air cushioning	08229038..				
		Ø 80 double acting single rod magn. air cushioning	08229048..				
		Ø 100 double acting single rod magn. air cushioning	08229058..				
		Ø 32 double acting double rod magn. air cushioning	R480.....				
		Ø 40 double acting double rod magn. air cushioning	R480.....				
		Ø 50 double acting double rod magn. air cushioning	R480.....				
		Ø 63 double acting double rod magn. air cushioning	R480.....				
		Ø 80 double acting double rod magn. air cushioning	R480.....				
		Ø 100 double acting double rod magn. air cushioning	R480.....				
				Cylinder according to ISO 1552 (ISO6431/VDMA24562) center trunnion mounting SERIES TRB Ø32 - 250 (Tie Rod)		standard stroke: 25,50,80,100,125,160, 200,250,320,400,500	For TRB cylinder, trunnion is mounted in the middle of the stroke. For different position please indicate the XV dimension in configurator
				Ø 32 double acting single rod magn. air cushioning		08223409..	








		Ø 40 double acting single rod magn. air cushioning Ø 50 double acting single rod magn. air cushioning Ø 63 double acting single rod magn. air cushioning Ø 80 double acting single rod magn. air cushioning Ø 100 double acting single rod magn. air cushioning	08223419.. 08223429.. 08223439.. 08223449.. 08223459..	
		Ø 125 double acting single rod air cushioning Ø 160 double acting single rod air cushioning Ø 200 double acting single rod air cushioning Ø 250 double acting single rod air cushioning	08222069.. 08222079.. 08222089.. 08222099..	
		Cylinder according to ISO 15552 (ISO6431/VDMA24562) center trunnion mounting with locking unit SERIES TRB Ø32 - 100 (Tie Rod)	standard stroke: 25,50,80,100,125,160, 200,250,320,400,500	For TRB cylinder, trunnion is mounted in the middle of the stroke. For different position please indicate the XV dimension in configurator
		Ø 32 double acting single rod magn. air cushioning Ø 40 double acting single rod magn. air cushioning Ø 50 double acting single rod magn. air cushioning Ø 63 double acting single rod magn. air cushioning Ø 80 double acting single rod magn. air cushioning Ø 100 double acting single rod magn. air cushioning Ø 32 double acting double rod magn. air cushioning Ø 40 double acting double rod magn. air cushioning Ø 50 double acting double rod magn. air cushioning Ø 63 double acting double rod magn. air cushioning Ø 80 double acting double rod magn. air cushioning Ø 100 double acting double rod magn. air cushioning	R480..... R480..... R480..... R480..... R480..... R480..... R480..... R480..... R480..... R480..... R480..... R480.....	see configurator
		Stand Alone Lock Device ISO 15552 (ISO6431/VDMA24562) SERIES PRA/PRB/TRB Ø32 - 100		
		for type Ø 32 rod 12 mm. for type Ø 40 rod 16 mm. for type Ø 50 rod 20 mm. for type Ø 63 rod 20 mm. for type Ø 80 rod 25 mm.	0821401165 0821401166 0821401167 0821401168 0821401169	





		for type Ø 100 rod 30 mm.	0821401170	
		Double Clevis 90° SERIES E for PRA/PRB/TRB		
		for type Ø 32	1825805275	
		for type Ø 40	1825805276	
		for type Ø 50	1825805277	
		for type Ø 63	1825805278	
		for type Ø 80	1825805279	
		for type Ø 100	1825805280	
		for type Ø 125	1825805277	
		for type Ø 160	1825805278	
		for type Ø 200	1825805279	
		for type Ø 250	1825805280	
		Double Rear Clevis SERIES D (MP2) for PRA/PRB/TRB		
		for type Ø 32	1827001289	with 4 screws and without pin
		for type Ø 40	1827001290	
		for type Ø 50	1827001291	
		for type Ø 63	1827001500	
		for type Ø 80	1827001293	
		for type Ø 100	1827001294	
		for type Ø 125	1827004862	
		for type Ø 160	1827004863	
		for type Ø 200	1827004864	
		for type Ø 250	1827004865	
		Pin for MP2 clevis SERIES D1 for PRA/PRB/TRB		
		for type Ø 32	1823120020	
		for type Ø 40	1823120021	
		for type Ø 50	1823120022	
		for type Ø 63	1823120023	
		for type Ø 80	1823120024	
		for type Ø 100	1823120025	
		for type Ø 125	1827004870	
		for type Ø 160	1827004871	
		for type Ø 200	1827004871	
		for type Ø 250	1827004872	
		Single Rear Clevis SERIES F (MP4) for PRA/PRB/TRB		


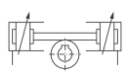


	for type Ø 32	1827001283	with 4 screws and without pin
	for type Ø 40	1827001284	
	for type Ø 50	1827001285	
	for type Ø 63	1827020086	
	for type Ø 80	1827001287	
	for type Ø 100	1827001288	
	for type Ø 125	1827004866	
	for type Ø 160	1827004867	
	for type Ø 200	1827004868	
	for type Ø 250	1827004869	
	Foots SERIES A (MS1) for PRA/PRB/TRB		
	for type Ø 32	1827001271	2 pcs. with 4 screws
	for type Ø 40	1827001272	
	for type Ø 50	1827001273	
	for type Ø 63	1827001498	
	for type Ø 80	1827001275	
	for type Ø 100	1827001276	
	for type Ø 125	1827001310	
	for type Ø 160	1827001457	
	for type Ø 200	1827001458	
	for type Ø 250	1827001459	
	Flange SERIES C (MF1/MF2) for PRA/PRB/TRB		
	for type Ø 32	1827001277	with 4 screws
	for type Ø 40	1827001278	
	for type Ø 50	1827001279	
	for type Ø 63	1827001499	
	for type Ø 80	1827001281	
	for type Ø 100	1827001282	
	for type Ø 125	1827001861	
	for type Ø 160	1827001460	
	for type Ø 200	1827001461	
	for type Ø 250	1827001462	


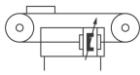


	Piston rod clevis SERIES D (P1) for PRA/PRB/TRB			
		for type Ø 32	1822122024	with pin and locking clips
		for type Ø 40	1822122025	
		for type Ø 50-63	1822122005	
		for type Ø 80-100	1822122004	
	Piston ball joints SERIES E (P4) for PRA/PRB/TRB			
		for type Ø 32	1822124003	
		for type Ø 40	1822124004	
		for type Ø 50-63	1822124005	
		for type Ø 80-100	1822124006	

5.3 SERIES TRR ROTARY ACTUATOR CYLINDERS – RACK AND PINION

		Rotary cylinder rackwork pinion SERIES TRR		rotation angle: 90°- 180°-360° Catalog link	
			for type Ø 32	08229302..	
			for type Ø 40	08229312..	
			for type Ø 50	08229322..	
			for type Ø 63	08229332..	
			for type Ø 80	08229342..	
			for type Ø 100	08229352..	

5.4 SERIES RTC RODLESS CLYINDER

		Rodless Cylinder SERIES RTC-BV (Basic Version)		see configurator	
			type Ø 16	R480.....	max. stroke 6600
			type Ø 25	R480.....	max. stroke 7000
			type Ø 32	R480.....	max. stroke 9900
			type Ø 40	R480.....	max. stroke 9900
			type Ø 50	R480.....	max. stroke 9900
			type Ø 63	R480.....	max. stroke 6600
			type Ø 80	R480.....	max. stroke 4800








		Rodless Cylinder SERIES RTC-CG (Compact Guide)		see configurator	
		type Ø 16	R480.....		max. stroke 2000
		type Ø 25	R480.....		max. stroke 2000
		type Ø 32	R480.....		max. stroke 2000
		type Ø 40	R480.....		max. stroke 2000
		Rodless Cylinder SERIES RTC-HD (Heavy Duty)		see configurator	
		type Ø 16	R480.....		max. stroke 2000
		type Ø 25	R480.....		max. stroke 4300
		type Ø 32	R480.....		max. stroke 4300
		type Ø 40	R480.....		max. stroke 4300
		type Ø 50	R480.....		max. stroke 4300
		type Ø 63	R480.....		max. stroke 4300




5.5 SERIES CCI COMPACT CYLINDER ACCORDING TO ISO 21287

		Compact Cylinder according to ISO 21287 SERIES CCI Ø20 - 100 (ø16 not according to ISO 21287)		standard stroke: 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125, 150
		Ø 16 double acting single female rod	R422001..2	
		Ø 20 double acting single female rod	R422001..3	
		Ø 25 double acting single female rod	R422001..4	
		Ø 32 double acting single female rod	R422001..5	
		Ø 40 double acting single female rod	R422001..6	
		Ø 50 double acting single female rod	R422001..7	
		Ø 63 double acting single female rod	R422001..8	
		Ø 80 double acting single female rod	R422001.9	
		Ø 100 double acting single female rod	R422001.0	
		Ø 16 double acting single male rod	R422001..2	see web catalog link
		Ø 20 double acting single male rod	R422001..3	
		Ø 25 double acting single male rod	R422001..4	
		Ø 32 double acting single male rod	R422001..5	
		Ø 40 double acting single male rod	R422001..6	
		Ø 50 double acting single male rod	R422001..7	
		Ø 63 double acting single male rod	R422001..8	
		Ø 80 double acting single male rod	R4220012.9	





		Ø 100 double acting single male rod	R4220012.0	
		Double Clevis 90° SERIES E for CCI		
		for type Ø 32	1825805275	
		for type Ø 40	1825805276	
		for type Ø 50	1825805277	
		for type Ø 63	1825805278	
		for type Ø 80	1825805279	
		for type Ø 100	1825805280	
		Double Rear Clevis SERIES D (MP2) for CCI		
		for type Ø 32	1827001289	with 4 screws and without pin
		for type Ø 40	1827001290	
		for type Ø 50	1827001291	
		for type Ø 63	1827001500	
		for type Ø 80	1827001293	
		for type Ø 100	1827001294	
		Pin for MP2 clevis SERIES D1 for CCI		
		for type Ø 32	1823120020	
		for type Ø 40	1823120021	
		for type Ø 50	1823120022	
		for type Ø 63	1823120023	
		for type Ø 80	1823120024	
		for type Ø 100	1823120025	
		Single Rear Clevis SERIES F (MP4) for CCI		
		for type Ø 16	1825805368	with 4 screws and without pin
		for type Ø 20	1827002300	
		for type Ø 25	1827002301	
		for type Ø 32	1827001283	
		for type Ø 40	1827001284	
		for type Ø 50	1827001285	
		for type Ø 63	1827020086	
		for type Ø 80	1827001287	
		for type Ø 100	1827001288	
		Foots SERIES A (MS1) for CCI		
		for type Ø 16	1821332053	2 pcs. with 4 screws



		for type Ø 20	1827002284	
		for type Ø 25	1827002285	
		for type Ø 32	1827001271	
		for type Ø 40	1827001272	
		for type Ø 50	1827001273	
		for type Ø 63	1827001498	
		for type Ø 80	1827001275	
		for type Ø 100	1827001276	
		Flange SERIES C (MF1/MF2) for CCI		
		for type Ø 16	1821038241	with 4 screws
		for type Ø 20	1827002292	
		for type Ø 25	1827002293	
		for type Ø 32	1827001277	
		for type Ø 40	1827001278	
		for type Ø 50	1827001279	
		for type Ø 63	1827001499	
		for type Ø 80	1827001281	
		for type Ø 100	1827001282	
		Piston rod clevis SERIES D (P1) for CCI		
		for type Ø 16	1822122009	with pin and locking clips
		for type Ø 20-25	1822122010	
		for type Ø 32-40	1822122024	
		for type Ø 50-63	1822122025	
		for type Ø 80-100	1822122005	
		Piston ball joints SERIES E (P4) for CCI		
		for type Ø 16	1822124001	
		for type Ø 20-25	1822124002	
		for type Ø 32-40	1822124003	
		for type Ø 50-63	1822124004	
		for type Ø 80-100	1822124005	



5.6 SENSORS

 	<p>Electronic sensor switch with M12x1 connector (0,3 m. cable) ST6 - ST4 series</p>	<p>These sensors can be mounted on PRA, CCI, RTC cylinders without brackets directly onto the barrel Catalog link</p>		
			PNP solid state sensor ST6	0830100433
			PNP solid state sensor ST4 (ONLY FOR SERIES RTC & CKP)	R412010138
			bracket to mount ST6 sensor on OCT cylinder series	5283003512
			bracket to mount ST6 sensor on PRB cylinder series	1827020287
			bracket to mount ST6 s. on TRB cylinder series ø32-40	1827020282
			bracket to mount ST6 s. on TRB cylinder series ø50-63	1827020283
			bracket to mount ST6 s. on TRB cylinder series ø80-100	1827020284
			bracket to mount ST6 s. on TRB cylinder series ø125	1827020292
			bracket to mount ST6 s. on TRB cylinder series ø160-200	1827020293
			bracket to mount ST6 s. on TRB cylinder series ø250	1827020294
			bracket to mount ST6 s. on TRR cylinder series ø32-40	1827020282
			bracket to mount ST6 s. on TRR cylinder series ø50-63	1827020283
bracket to mount ST6 s. on TRR cylinder series ø80-100	1827020284			