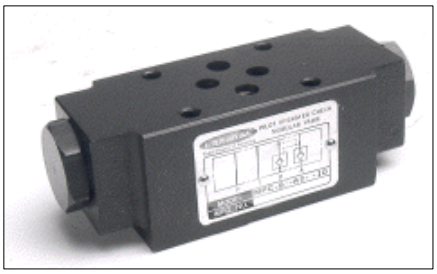
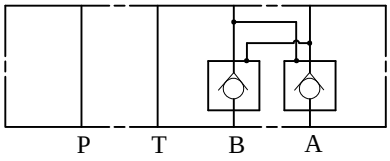
IFP MPC(D)03 PILOT CHECK VALVE MODULE

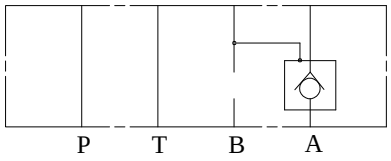
- **ISO4401-03 SIZE/NFPA D03**
- **STEEL SEAT FOR LONG WEAR**
- **ZERO LEAKAGE**
- **DECOMPRESSION FEATURE**



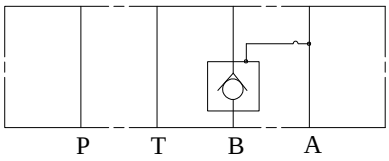
MPC-03-W



MPC-03-A



MPC-03-B



ORDERING CODE

MPC (D) - 03 - W - 1

- MODULAR CHECK VALVE
- DECOMPRESSION FEATURE
- SIZE D03
- CONTROL PORT
  - W ~ A, B PORT
  - A ~ A PORT
  - B ~ B PORT
- CRACKING PRESSURE 1:2

SPECIFICATIONS

TYPES	SIZE	MAX. PRESSURE (PSI)	RATED FLOW (GPM)	CRACKING PRESSURE (PSI)	AREA RATIO			WEIGHT lbs
					PILOT PISTON	VALVE	NEEDLE VALVE	
MPC(D)-03-W-1-*	D03	4500 PSI	15	5	1	0.37	0.06	2
A								
B								
MPC(D)-03-W-2-*				65				
A								
B								

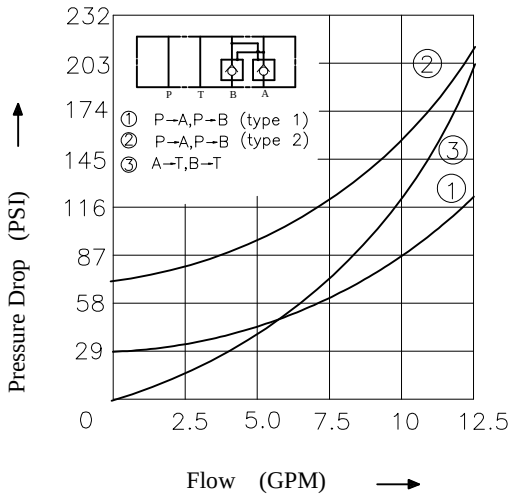
IFP offers a pilot operated Check Valve module designed for use in applications requiring positive lock on a pressurized load, but will release the load upon application of pressure to the opposite port. Modules are available with dual or single service line versions. The use of modular design make compact hydraulic systems in which the modules are "sandwiched" between a directional valve and standard mounting surface.

IFP MPC(D)03 PILOT CHECK VALVE MODULE

PERFORMANCE CURVES Viscosity (100-150 SUS)

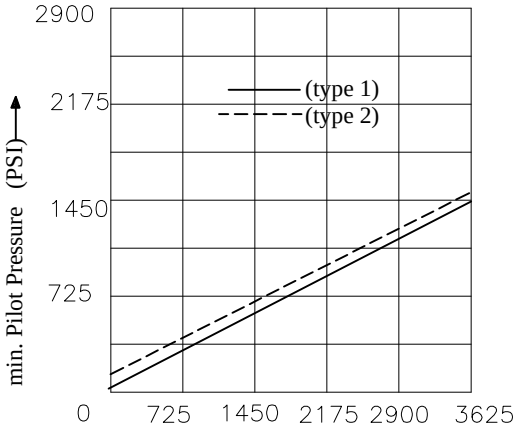
MPC-03-W-*

Pressure Drop characteristic



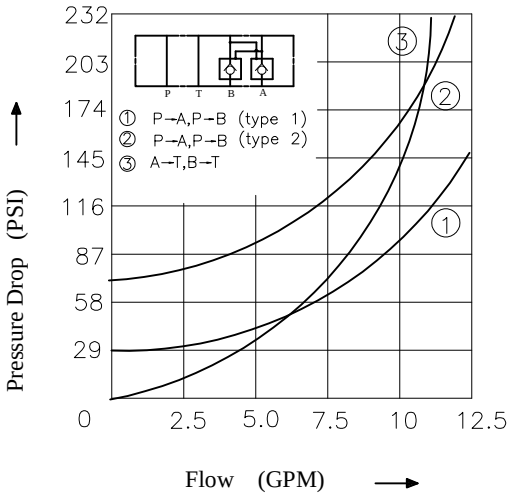
MPC-03-W-*

min. Pilot Pressure characteristic



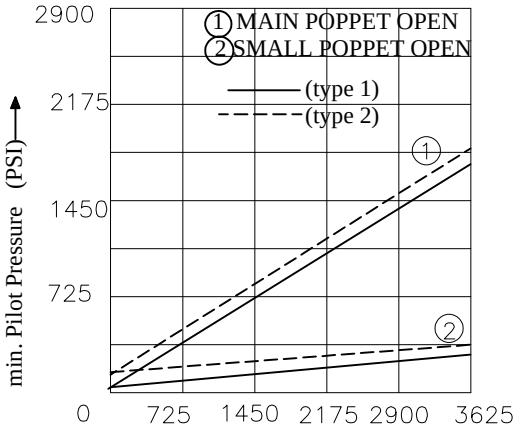
MPD-03-W -*

Pressure Drop characteristic



MPD-03-W -*

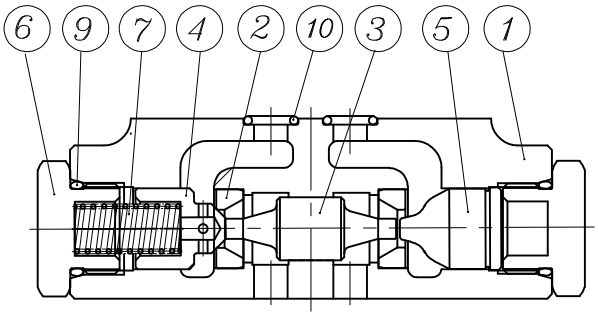
min. Pilot Pressure characteristic



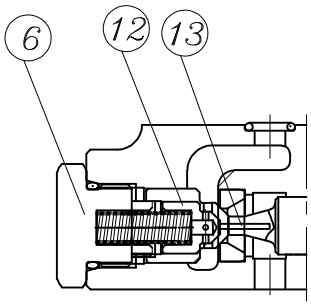
IFP MPC03 PILOT CHECK VALVE MODULE

CROSS SECTION DIAGRAM

MPC-03-A-*



MPD-03-A-*
(Decomposition)

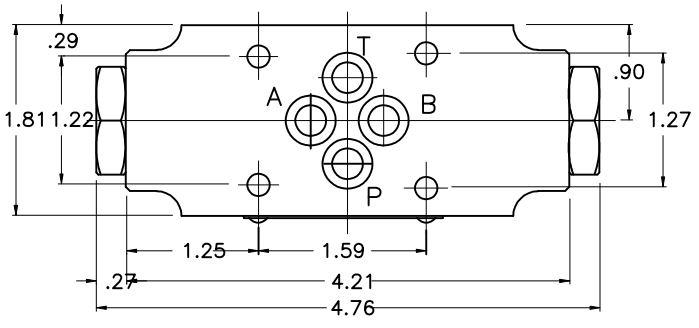


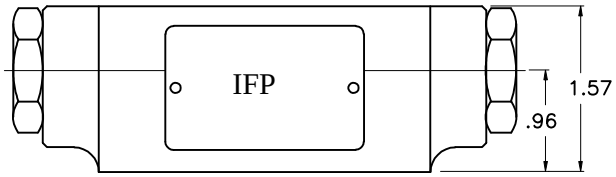
NO.	PATRS NAME
1	BODY
2	SEAT
3	SPOOL
4	POPPET
5	PLUG
6	NUT
7	SPRING
8	NAME PLATE
9	O-RING
10	O-RING
11	REVIT
12	Poppet
13	ROD

NO.	DESCRIPTION	PART NO.	Q'TY		
			W	A	B
9	O-RING	P18, 90°	2	2	2
10	O-RING	P9, 90°	4	4	4

DIMENSIONS

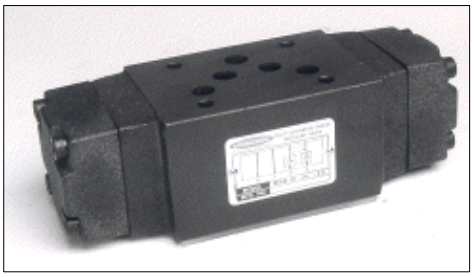
MPC-03-*-*



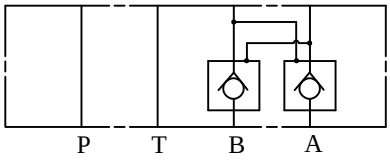


IFP MPC(D)05 PILOT CHECK VALVE MODULE

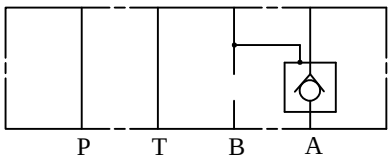
- **ISO4401-05 SIZE/NFPA D05**
- **STEEL SEAT FOR LONG WEAR**
- **ZERO LEAKAGE**
- **DECOMPRESSION FEATURE**



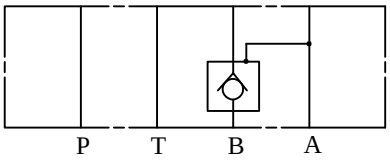
MPC-05-W



MPC-05-A



MPC-05-B



ORDERING CODE

MPC(D) - 05 - W - 1

- MPC(D): MODULAR CHECK VALVE DECOMPRESSION FEATURE
- 05: SIZE D05
- W: CONTROL PORT W ~ A, B PORT; A ~ A PORT; B ~ B PORT
- 1: CRACKING PRESSURE 1:2

SPECIFICATIONS

TYPES	SIZE	MAX. PRESSURE (PSI)	RATED FLOW (GPM)	CRACKING PRESSURE (PSI)	AREA RATIO			WEIGHT lbs
					PILOT PISTON	VALVE	NEEDLE VALVE	
MPC(D)-05-W-1-*	D05	4500 PSI	30	5	1	0.37	0.06	7.90
A								
B								
MPC(D)-05-W-2-*				65				
A								
B								

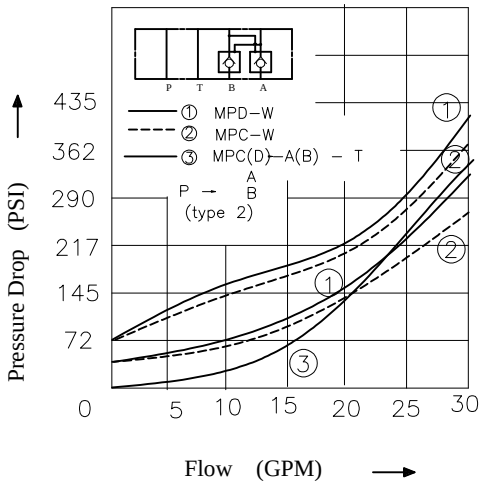
IFP offers a pilot operated Check Valve module designed for use in applications requiring positive lock on a pressurized load, but will release the load upon application of pressure to the opposite port. Modules are available with dual or single service line versions. The use of modular design makes compact hydraulic systems in which the modules are "sandwiched" between a directional valve and standard mounting surface.

IFP MPC(D)05
PILOT CHECK VALVE MODULE

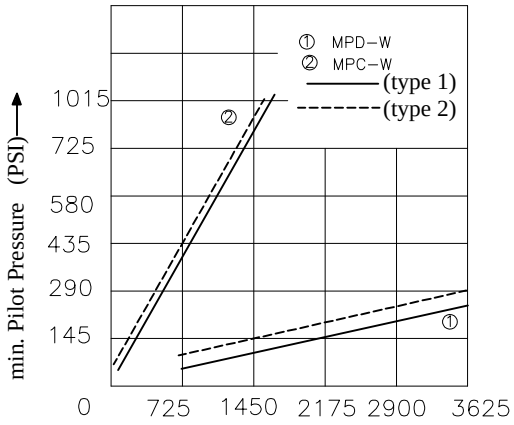
PERFORMANCE CURVES Viscosity (100-150 SUS)

MPC(D)-05-W-1

Pressure Drop characteristic

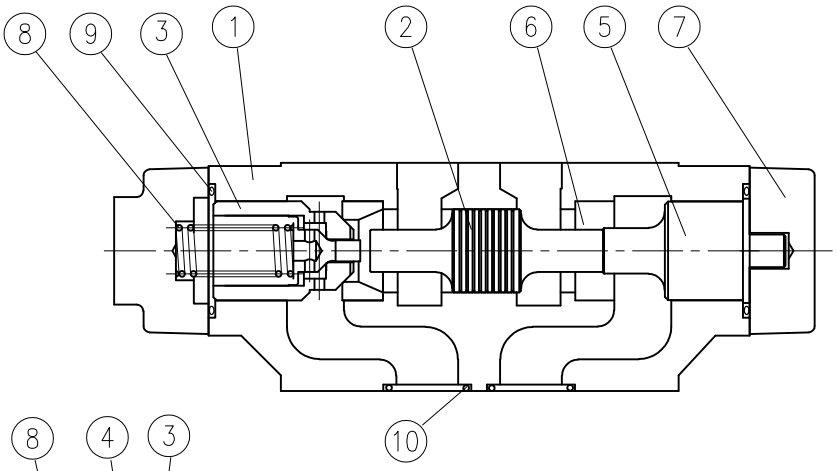


min. Pilot Pressure characteristic

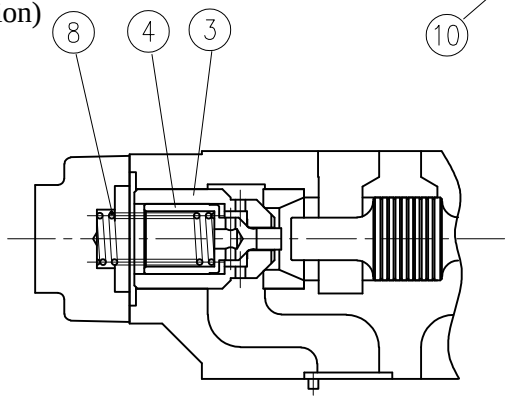


CROSS SECTION DIAGRAM

MPC-05-A-1



MPD-05-A-1
(Decomposition)



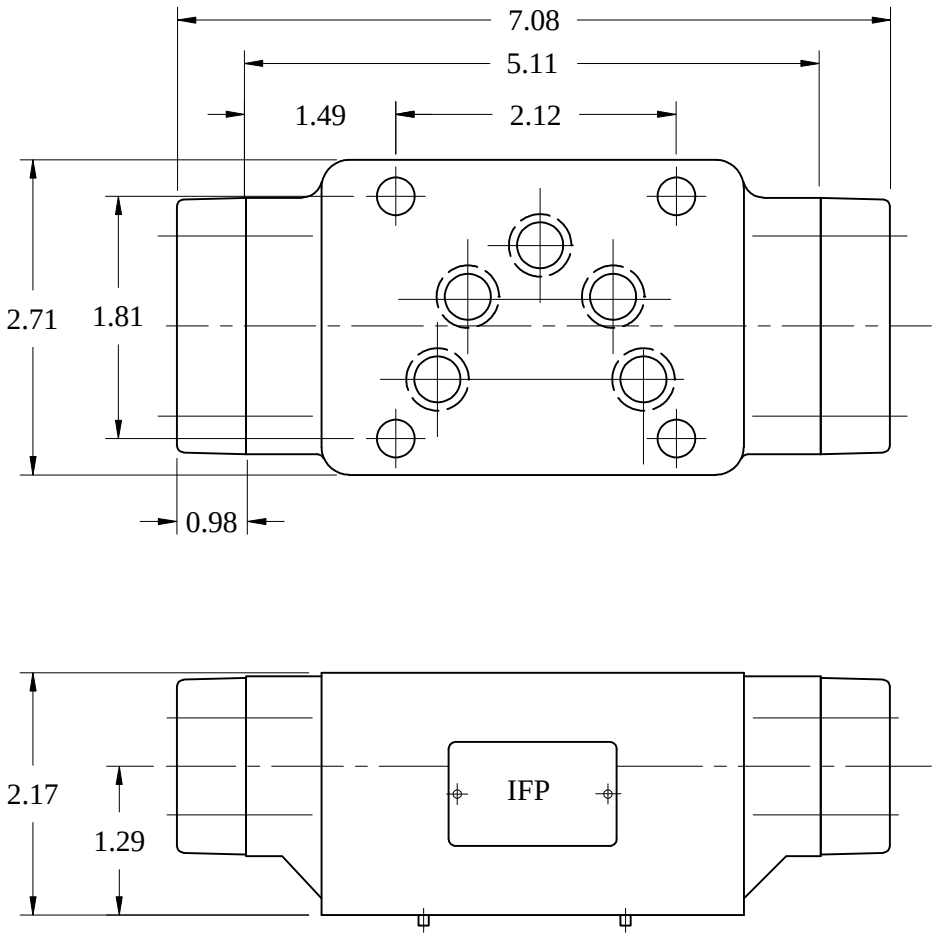
NO.	DESCRIPTION	PART NO.	QT'Y
9	O–ring	P29, 90	2
10	O–ring	AS–568–014	5

NO.	DESCRIPTION
1	Body
2	Piston
3	Poppet
4	Poppet
5	Bushing
6	Seat
7	Cover
8	Spring
9	O–ring
10	O–ring

IFP MPC(D)05
PILOT CHECK VALVE MODULE

DIMENSIONS

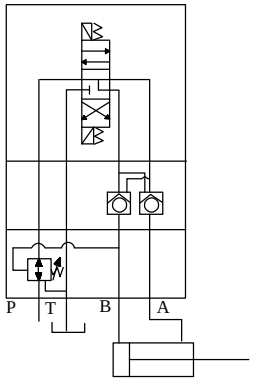
MPC(D)-05-*-*



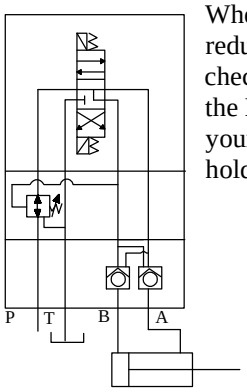
IFP MODULES
APPLICATION GUIDELINES

SOLENOID VALVE
(D.G. Series)
Pressure Reduing
(MGV Series)
Pilot Check Valve
(MPC Series)

X WRONG



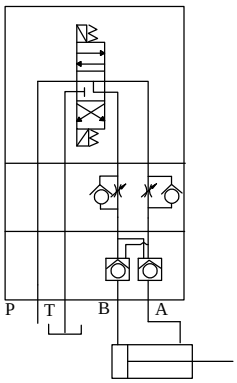
CORRECT



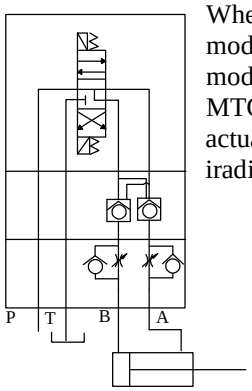
When using the MGV pressure reducing module with the MPC pilot check module in the same assembly, the MPC module should be closest to your actuator to obtain a leak free holding assembly

SOLENOID VALVE
(D.G. Series)
Pilot Check Valve
(MPC Series)
Flow Control
(MTC Series)

X WRONG



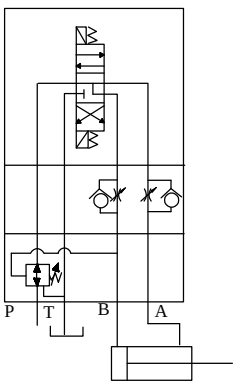
CORRECT



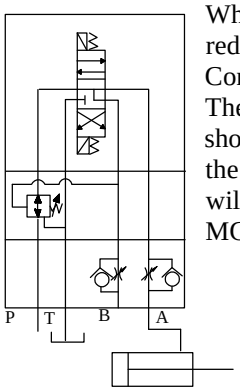
When using the MTC flow control module with the MPC pilot check module in the same assembly, the MTC module should be closest to the actuator, or the actuator will move iradically.

SOLENOID VALVE
(D.G. Series)
Pressure Reduing
(MGV Series)
Flow Control
(MTC Series)

X WRONG



CORRECT



When using the MGV pressure reducing module with the MTC Flow Control Module.
The MTC Flow Control Module should be closest to your actuator or the back pressure created by the MTC will affect the pressure setting of the MGV pressure reducing.

IFP BOLT KITS
DIRECTIONAL CONTROL VALVES

SIZE D03
BOLTS GRADE-12.9(ISO 898)

	METRIC M5-6G	INCH 10-24 UNC	LENGTH (inches)
DG03 VALVE	BKDG03M	BKDG03S	1 3/4
DG03 + 1 MODULE	BKDG03M-1	BKDG03S-1	3 3/8
DG03 + 2 MODULES	BKDG03M-2	BKDG03S-2	5
DG03 + 3 MODULES	BKDG03M-3	BKDG03S-3	6.5
DG03 + 4 MODULES	BKDG03M-4	BKDG03S-4	8 1/8

NOTE: Bolts should be torqued to 63-80 lb/in

SIZE D05
BOLTS GRADE-7

	METRIC M6	INCH 1/4-24 UNC	LENGTH (inches)
DG05 VALVE	BKDG05M	BKDG05S	1 3/8
DG05 + 1 MODULE	BKDG05M-1	BKDG05S-1	3 5/8
DG05 + 2 MODULES	BKDG05M-2	BKDG05S-2	5 3/4
DG05 + 3 MODULES	BKDG05M-3	BKDG05S-3	7 1/2
DG05 + 4 MODULES	BKDG05M-4	BKDG05S-4	10 1/8

NOTE: Bolts should be torqued to 100-130 lb/in