Family		Flat face						
SERIES	**TECHNICAL FEATURES**	**FIRG** 	**A NEW / A** 	**APM** 	**A-HD** 	**AX** 	**FIRG-Q** 	**FL** 
Interchange	ISO and/or reference markets	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028	ISO 16028
Valve Style	Flat face	✓	✓	✓	✓	✓	✓	✓
	Non spill flat face							
	Ball							
	Poppet							
Connection / Disconnection system	Push/Pull the sleeve	✓	✓	✓	✓	✓	✓	✓
	Single active sleeve							
	Push-Pull*							
	Screw							
	Lever/Knob							
	By Multicoupling							
Safety lock system	Safety ball	✓	✓	✓	✓	✓	✓	✓
	Screw							
	Pin/Cam							
	Double lock	✓	✓		✓	✓	✓	✓
Connection Under residual Pressure	One side			✓	✓			
	Both sides							
	With Easy CUP**			✓				
	Disconnection							
Material	Carbon steel	✓	✓	✓	✓		✓	
	Stainless steel					✓	✓	✓
	Aluminium							
	Brass							
Treatment	Zn-Ni		(✓)					
	Cr3	✓	✓	✓	✓			
	QPQ						✓	
	Other							
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓		✓	
	FKM (Viton®)					✓	✓	✓
	EPDM						✓	
	HNBR							
	Kalrez®						✓	
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓	✓	✓	✓
	Water, Water&Glycol						✓	
Threads available (others upon request)	BSP	✓	✓	✓	✓	✓	✓	✓
	NPT	✓	✓	✓	✓		✓	✓
	SAE	✓	✓	✓	✓			✓
	METRIC		✓			✓		
	Other	✓	✓					
Sizes / Performances **Max. operating pressure (bar)** *Max suggested flow (l/min)*	1/8"		**420** / *6*					**350** / *6*
	1/4"	**300** / *24*	**420** / *24*				**300** / *24*	**350** / *24*
	3/8"	**300** / *46*	**350** / *46*	**350** / *46*	**350** / *46*	**350** / *46*	**300** / *46*	**350** / *46*
	1/2"	**250** / *90*	**330** / *90*	**330** / *90*	**330** / *90*	**330** / *90*	**250** / *90*	**350** / *90*
	5/8"	**250** / *148*	**330** / *148*	**330** / *148*			**250** / *148*	**350** / *148*
	3/4"	**330** / *200*	**350** / *200* **330** / *200*	**330** / *200*		**330** / *200*	**250** / *200*	**330** / *200*
	1"	**250** / *378*	**350** / *378* **300** / *378*	**300** / *378*		**300** / *378*	**250** / *378*	**280** / *378*
	1-1/4"		**300** / *450* **300** / *450*					
	1-1/2"	**200** / *750*	**270** / *750* **270** / *750*	**270** / *750*			**200** / *750*	**230** / *750*
	2"	**200** / *1000*					**200** / *1000*	**150** / *1000*
Typical applications	Earth moving	✓	✓	✓	✓			
	Oil&Gas	✓	✓	✓	✓	✓	✓	✓
	Vehicles	✓	✓	✓	✓			
	Agriculture	✓	✓	✓	✓			
	Industry	✓	✓	✓	✓	✓	✓	✓
	Hydraulic tools	✓	✓	✓	✓			
	High pressure							
	Refrigeration					✓		✓
	Cooling						✓	
	Chemical&Food					✓	✓	✓

Family		Flat face screw			Casting
SERIES	**TECHNICAL FEATURES**	VP-P 	VEP-P 	VEP-HD 	SATURN 3 
Interchange	ISO and/or reference markets	Stucchi profile	Stucchi profile	Stucchi profile	ISO 16028
Valve Style	Flat face	✓	✓	✓	✓
	Non spill flat face				
	Ball				
	Poppet				
Connection / Disconnection system	Push/Pull the sleeve				✓
	Single active sleeve				
	Push-Pull*				
	Screw	✓	✓	✓	
	Lever/Knob				
	By Multicoupling				
Safety lock system	Safety ball				✓
	Screw	✓	✓	✓	
	Pin/Cam				
	Double lock	✓		safety pin (HDL)	
Connection Under residual Pressure	One side				✓
	Both sides	✓	✓	✓	
	With Easy CUP**	✓	✓	✓	✓
	Disconnection	✓	✓	✓	✓
Material	Carbon steel	✓	✓	✓	✓
	Stainless steel				
	Aluminium				
	Brass				
Treatment	Zn-Ni	(✓)	(✓)	(✓)	
	Cr3	✓	✓		✓
	QPQ	✓	✓	✓	
	Other				
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓
	FKM (Viton®)				
	EPDM				
	HNBR				
	Kalrez®				
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓
	Water, Water&Glycol				
Threads available (others upon request)	BSP	✓	✓	✓	
	NPT	✓	✓	✓	
	SAE	✓	✓	✓	✓
	METRIC				
	Other			✓	✓
Sizes / Performances **Max. operating pressure (bar)** *Max suggested flow (l/min)*	1/8”				
	1/4”	**600** / *24*	**600** / *24*		
	3/8”	**550** / *46*	**550** / *46*		
	1/2”	**550** / *90*	**550** / *90*		**350** / *90*
	5/8”	**550** / *148*	**550** / *148*	**550** / *148*	**350** / *148*
	3/4”	**500** / *200*	**500** / *200*	**500** / *200*	**350** / *200*
	1”	**470** / *378*	**470** / *378*	**470** / *378*	
	1-1/4”			**420** / *576*	
	1-1/2”	**400** / *750*	**400** / *750*	**400** / *750*	
	2”		**350** / *1000*		
Typical applications	Earth moving	✓	✓	✓	✓
	Oil&Gas	✓	✓	✓	
	Vehicles	✓	✓	✓	
	Agriculture				
	Industry	✓	✓	✓	
	Hydraulic tools	✓	✓	✓	✓
	High pressure				
	Refrigeration				
	Cooling				
	Chemical&Food				

KEY:

* PUSH-PULL BREAKAWAY:
Stucchi system that avoids breaking the circuit in case the operator does not disconnect properly the couplings.

** EASY CONNECTION UNDER PRESSURE:
Stucchi solution for manual connection with residual pressure in the circuit, thanks to the triple valve system in the male.

BOP
BLOW OUT PREVENTION:
Specific dimensions are fire tested and Lloyd certified in accordance with API 16D and the EUB Directive #36.

(✓)
Option available upon request.

✓
Available as an alternative to the standard version.

Family		Multicouplings						
		Plates			Couplings			
SERIES	TECHNICAL FEATURES	DP 	GR 	GRE 	FAP-ZN 	FAP-HP 	FAQ 	CS 
Interchange	ISO and/or reference markets	Stucchi profile	Stucchi profile	Stucchi profile	Stucchi profile (with DP, GR)	Stucchi profile (with GR)	Stucchi profile (with DP, GR)	Stucchi profile (with GRE)
Valve Style	Flat face	✓	✓	✓	✓	✓	✓	✓
	Non spill flat face							
	Ball							
	Poppet							
Connection / Disconnection system	Push/Pull the sleeve							
	Single active sleeve							
	Push-Pull*							
	Screw							
	Lever/Knob	✓	✓	✓				
	By Multicoupling	✓	✓	✓	✓	✓	✓	✓
Safety lock system	Safety ball							
	Screw							
	Pin/Cam	✓	✓	✓				
	Double lock	✓	✓	✓				
Connection Under residual Pressure	One side	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS				
	Both sides				✓	✓		
	With Easy CUP**				✓	✓		
	Disconnection				✓	✓		
Material	Carbon steel	✓	✓		✓	✓	✓	
	Stainless steel						✓	
	Aluminium	✓		✓				
	Brass		✓					✓
Treatment	Zn-Ni	✓	✓		✓			
	Cr3					✓		
	QPQ					✓	✓	
	Other							
Standard seal (others upon request)	Nitrile NBR	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS	✓	✓	✓	✓
	FKM (Viton®)						✓	
	EPDM						✓	
	HNBR							
	Kalrez®							
Fluid type (with standard seal)	Hydraulic oil	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS	✓	✓	✓	✓
							✓	✓
Threads available (others upon request)	BSP	✓	✓	✓	✓		✓	✓
	NPT	✓	✓	✓	✓	✓	✓	✓
	SAE	✓	✓		✓			
	METRIC							
	Other							
Sizes / Performances Max. operating pressure (bar) *Max suggested flow (l/min)*	1/8"	see FAP-ZN, FAQ	see FAP-ZN, FAP-HP,FAQ	see CS				
	1/4"							
	3/8"				**350** *46*	**700** *46*	**20** *46*	**10** *46*
	1/2"				**330** *90*		**20** *90*	**10** *90*
	5/8"				**330** *148*		**20** *148*	
	3/4"				**330** *200*		**20** *200*	
	1"				**300** *378*			
	1-1/4"							
	1-1/2"							
	2"							
Typical applications	Earth moving	✓	✓		✓			
	Oil&Gas	✓	✓	✓	✓			✓
	Vehicles	✓	✓		✓			
	Agriculture	✓	✓		✓			
	Industry	✓	✓	✓	✓	✓	✓	✓
	Hydraulic tools	✓	✓		✓	✓		
	High pressure					✓		
	Refrigeration							
	Cooling			✓			✓	✓
	Chemical&Food							

Family		Poppet screw				High pressure		Check valve
SERIES	TECHNICAL FEATURES	VD 	VOF 	VOFX 	VR 	A-HP 	IV-HP	VUZ 
Interchange	ISO and/or reference markets	ISO 14541	Oil&Gas couplings	Oil&Gas couplings	Rohrleitung couplings	Stucchi profile	Similar couplings	-
Valve Style	Flat face					✓		
	Non spill flat face				✓			
	Ball						✓	
	Poppet	✓	✓	✓				
Connection / Disconnection system	Push/Pull the sleeve					✓		
	Single active sleeve							
	Push-Pull*							
	Screw	✓	✓	✓	✓		✓	
	Lever/Knob							
	By Multicoupling							
Safety lock system	Safety ball					✓		
	Screw	✓	✓	✓	✓		✓	
	Pin/Cam							
	Double lock					✓		
Connection Under residual Pressure	One side	✓	✓	✓	✓			
	Both sides							
	With Easy CUP**							
	Disconnection							
Material	Carbon steel	✓	✓		✓	✓	✓	✓
	Stainless steel			✓				
	Aluminium							
	Brass							
Treatment	Zn-Ni							
	Cr3	✓	✓		✓	✓	✓	✓
	QPQ							
	Other							
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓	✓	✓	
	FKM (Viton®)							
	EPDM							
	HNBR							
	Kalrez®							
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓	✓	✓	✓
	Water, Water&Glycol					✓		
Threads available (others upon request)	BSP	✓	✓	✓	(✓)	✓		✓
	NPT		✓	✓		✓	✓	✓
	SAE		(✓)	(✓)				✓
	METRIC	✓			✓			
	Other							
Sizes / Performances Max. operating pressure (bar) *Max suggested flow (l/min)*	1/8"					**700** / *6*		**400** / *6*
	1/4"	**450** / *24*				**700** / *24*	**700** / *12*	**350** / *24*
	3/8"	**450** / *46*			**400** / *46*	**700** / *46*	**700** / *23*	**350** / *46*
	1/2"	**400** / *90*			**300** / *90*			**300** / *90*
	5/8"							
	3/4"	**400** / *148*	**345** / *212*	**207** / *212*	**350** / *212*			**300** / *148*
	1"	**300** / *200*	**345** / *378*	**207** / *378*	**300** / *378*			**300** / *200*
	1-1/4"	**300** / *378*	**345** / *576*	**207** / *576*	**420** / *576*			**250** / *378*
	1-1/2"		**345** / *758*	**207** / *758*				**250** / *600*
	2"		**345** / *1100*	**207** / *1100*				**150** / *1000*
Typical applications	Earth moving	✓	✓	✓	✓			✓
	Oil&Gas		✓	✓				✓
	Vehicles	✓			✓			✓
	Agriculture							✓
	Industry			✓				✓
	Hydraulic tools	✓			✓	✓	✓	✓
	High pressure					✓	✓	
	Refrigeration							
	Cooling							
	Chemical&Food							

Family		Poppet									
SERIES	**TECHNICAL FEATURES**	**BIR** 	**I/IP** 	**IR** 	**IR-V** 	**IFR** 	**IRB** 	**IRBO** 	**IRBX** 	**IRC** 	**IRCX** 
Interchange	ISO and/or reference markets	ISO 7241 A	ISO 7241 A	Similar couplings	Similar couplings	ISO 5676	ISO 7241 B	ISO 7241 B	ISO 7241 B	Nordic couplings	Nordic couplings
Valve Style	Flat face										
	Non spill flat face					✓					
	Ball			✓							
	Poppet	✓	✓		✓		✓	✓	✓	✓	✓
Connection / Disconnection system	Push/Pull the sleeve										
	Single active sleeve	✓		✓	✓	✓	✓	✓	✓	✓	✓
	Push-Pull*		✓								
	Screw										
	Lever/Knob										
	By Multicoupling										
Safety lock system	Safety ball	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Screw										
	Pin/Cam										
	Double lock									✓	✓
Connection Under residual Pressure	One side	BIR-PC								IRC-PC	
	Both sides										
	With Easy CUP**										
	Disconnection										
Material	Carbon steel	✓	✓	✓	✓	✓	✓			✓	
	Stainless steel								✓		✓
	Aluminium										
	Brass							✓	✓		
Treatment	Zn-Ni									✓	
	Cr3	✓	✓	✓	✓	✓	✓				
	QPQ										
	Other										
Standard seal (others upon request)	Nitrile NBR	✓	✓	✓	✓	✓	✓			✓	
	FKM (Viton®)							✓	✓		✓
	EPDM										
	HNBR										
	Kalrez®										
Fluid type (with standard seal)	Hydraulic oil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Water, Water&Glycol										
Threads available (others upon request)	BSP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	NPT	✓	✓	✓	✓		✓	✓	✓	✓	
	SAE	(✓)			(✓)		(✓)	(✓)	(✓)	(✓)	(✓)
	METRIC		✓			✓					
	Other	✓									
Sizes / Performances **Max. operating pressure (bar)** *Max suggested flow (l/min)*	1/8"						**350** *6*	**200** *6*	**250** *6*		
	1/4"	**350** *12*	**350** *24*	**300** *20*	**300** *24*		**350** *24*	**200** *24*	**250** *24*	**450** *24*	**300** *24*
	3/8"	**300** *46*	**300** *46*	**300** *46*	**300** *46*	**150** *46*	**300** *46*	**160** *46*	**200** *46*	**350** *46*	**300** *46*
	1/2"	**250** *90*	**250** *90*	**250** *90*	**250** *90*		**280** *90*	**160** *90*	**200** *90*	**330** *90*	**300** *90*
	5/8"										
	3/4"	**250** *148*	**250** *148*	**250** *148*	**250** *148*		**230** *148*	**125** *148*	**160** *148*	**330** *212*	**200** *212*
	1"	**230** *200*	**250** *200*	**200** *150*	**200** *200*		**180** *200*	**100** *200*	**125** *200*	**330** *378*	**200** *378*
	1-1/4"	**230** *378*									
	1-1/2"	**180** *750*									
	2"	**130** *1000*									
Typical applications	Earth moving									✓	✓
	Oil&Gas						✓	✓	✓		
	Vehicles									✓	✓
	Agriculture	✓	✓	✓	✓	✓				✓	✓
	Industry	✓	✓	✓	✓		✓	✓	✓		
	Hydraulic tools									✓	✓
	High pressure										
	Refrigeration										
	Cooling							✓	✓		
	Chemical&Food						✓	✓	✓		